

KELCH

Vorsprung durch Präzision und Effizienz

工具系统目录

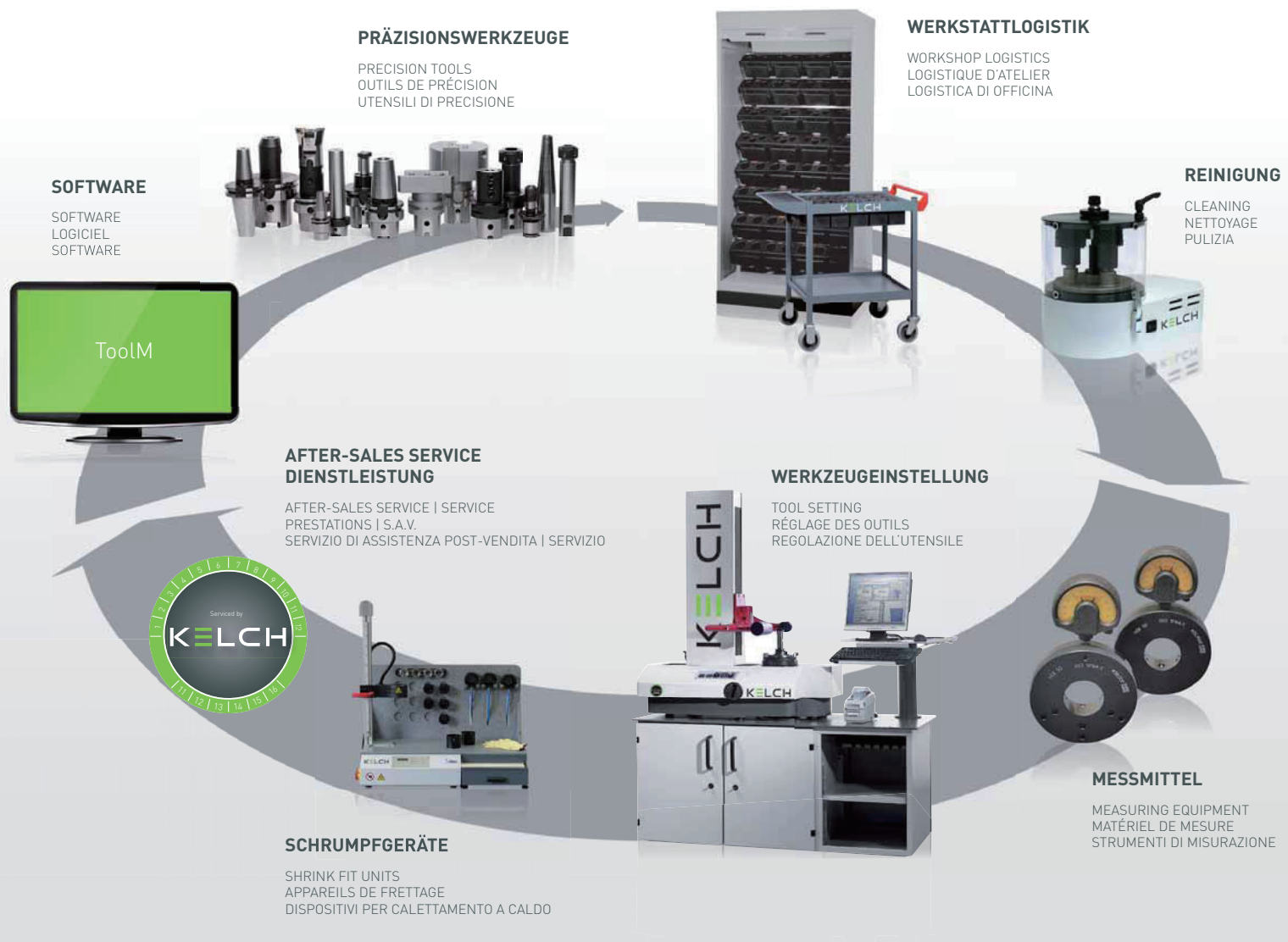
TOOLING SYSTEMS

工具系统

KELCH
Vorsprung durch Präzision und Effizienz

德国凯狮有限责任公司

德国凯狮有限责任公司
KELCH GMBH



凯狮公司成立于1942年，公司坐落于德国西南部的工业城镇——魏恩施塔特，是德国知名的刀具及刀具检测制造企业之一。1997年，美国凯狮公司成立；1998年凯狮AG在瑞士成立；2002年英国凯狮公司成立；2005年，经过收购兼并与整合，成立新公司“KELCH & Links GmbH”，隶属于哈量集团。2009年，哈量集团与中国通用技术集团实现了联合重组，成为其控股子公司和先进制造业中的产业平台。

凯狮公司的主营业务包括数控刀具、热缩机、对刀仪、多功能配件以及一系列高质量的售前售后服务等。凯狮产品的主要客户群体面对汽车、航空航天工业、模具工业等终端客户以及刀具行业品牌供应商。依托德国严格、健全的质量认证和检验体系，极力保证与世界排名前列的刀具制造企业完全一致的品控标准，可满足多种切削要求。

几十年以来，凯狮公司的业务体系已经逐渐地形成了一个集售前售后为一体的服务闭环——“KEC”-KELCH效率圈。我们能够为客户提供最可靠的解决方案——从单个工具到金属切割的完整外围制造。它包括的产品和服务——单独或组合——在一个封闭的系统中提供令人印象深刻的性能：从精密工具和市场领先的预设器到我们的智能工厂服务——一个完整的具有灵活组合模块的行业解决方案。随着业务范围不断扩大、服务质量不断提升，凯狮公司始终致力于为客户提供即时且满意的服务；且在中国通用技术集团的助力下，凯狮公司不断努力研发新产品，力求将产品和配套高质量的产品服务广泛应用于多个行业分支。

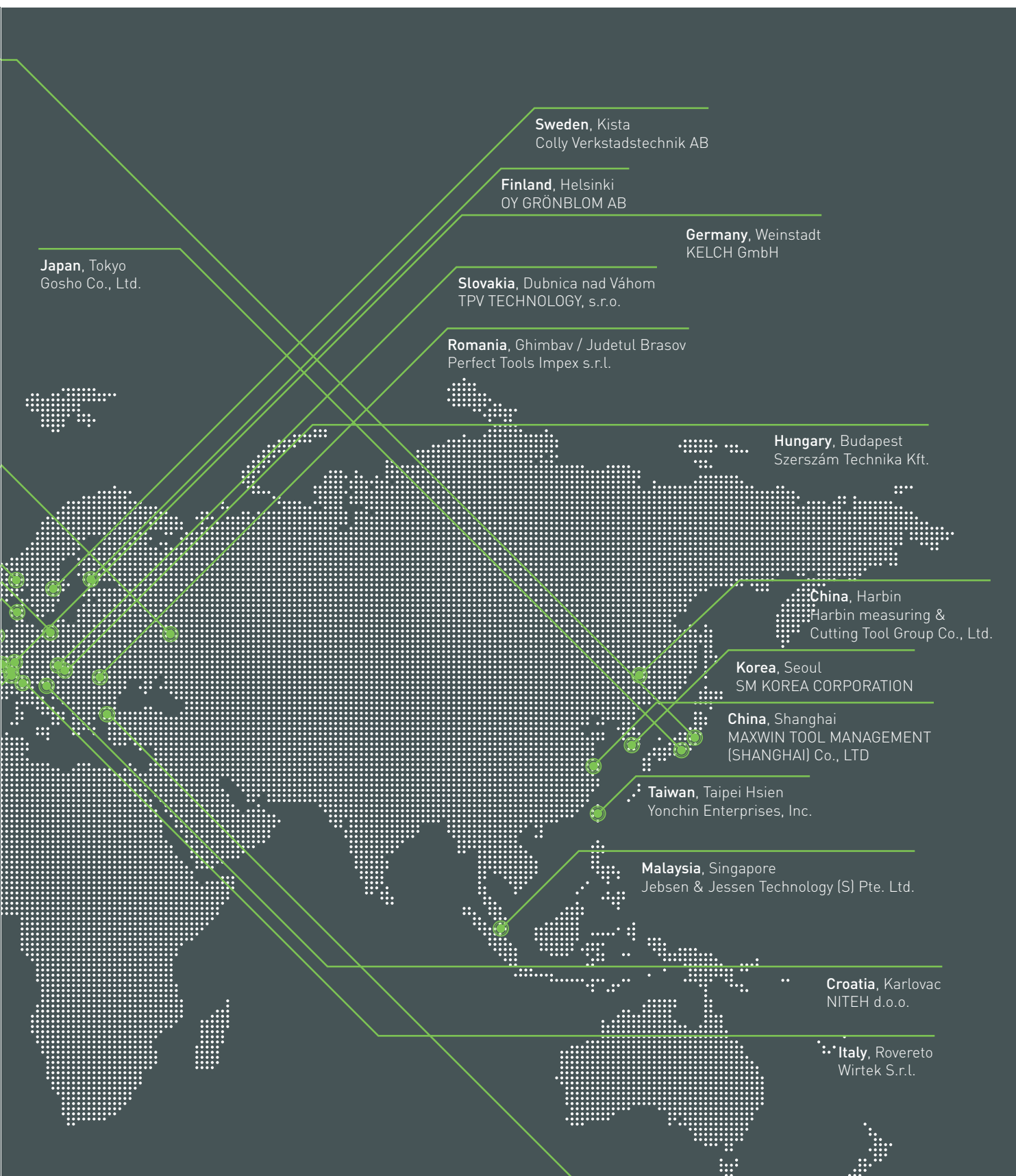
Standorte

Locations | Implantations | Sedi



Viele schreiben Service groß – wir leben Service vor, denn KELCH ist dort, wo Sie sind. Unsere Stützpunkte und Partner finden Sie weltweit. Ein echtes Plus in Sachen Service.

Many companies talk about service - we practice it, KELCH is wherever you are. We have support offices and partners around the world. A real advantage in terms of service.



Japan, Tokyo
Gosho Co., Ltd.

Sweden, Kista
Colly Verkstadstechnik AB

Finland, Helsinki
OY GRÖNBLOM AB

Germany, Weinstadt
KELCH GmbH

Slovakia, Dubnica nad Váhom
TPV TECHNOLOGY, s.r.o.

Romania, Chimbav / Judetul Brasov
Perfect Tools Impex s.r.l.

Hungary, Budapest
Szerszám Technika Kft.

China, Harbin
Harbin measuring &
Cutting Tool Group Co., Ltd.

Korea, Seoul
SM KOREA CORPORATION

China, Shanghai
MAXWIN TOOL MANAGEMENT
(SHANGHAI) Co., LTD

Taiwan, Taipei Hsien
Yonchin Enterprises, Inc.

Malaysia, Singapore
Jebsen & Jessen Technology (S) Pte. Ltd.

Croatia, Karlovac
NITEH d.o.o.

Italy, Rovereto
Wirtek S.r.l.

Mexico, Queretaro
Kalibrix Mexicana S.A. de C.V.

Turkey, Istanbul
Gökhan Metal Teknik Hirdavat Tic. ve San. Ltd. Sti.

Certains parlent beaucoup de S.A.V., nous le vivons, car KELCH est là où vous êtes. Vous trouverez dans le monde entier des centres d'assistance KELCH. Un véritable «plus» en matière de S.A.V.

Molti scrivono assistenza in grande; noi viviamo per l'assistenza, perché KELCH è dove siete voi. Troverete i nostri punti di assistenza in tutto il mondo. Un vero valore aggiunto in materia di assistenza.

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说明

Explication des pictogrammes

	<p>规范 刀柄及其接口都应符合这一规范。</p>	<p>Norm Tool holders and interface correspond to this Norm</p>
	<p>规格 同规格符合一致性；A型及相应A型HSK柄部应符合标准E.g ISO 12164-1.</p>	<p>Type Type belongs to the corresponding Norm; E.g. ISO 12164-1 type A corresponds to HSK type A</p>
	<p>规格 适用BT/JT柄的切削液</p>	<p>Type Coolant supply for BT/JT</p>
	<p>动平衡性 符合G2.5级动平衡标准，25,000 min⁻¹条件下小于1g mm</p>	<p>Balance quality G2.5 25,000 min⁻¹ corresponds to < 1g mm</p>
	<p>径向跳动 接触面半径相对于柄部定位孔和中心轴的同轴度</p>	<p>Concentricity Radial run-out from the interface to the tool holder location hole/ centering pivot</p>
	<p>轴向跳动（端面跳动） 接触面相对于柄部基准的跳动</p>	<p>Axial run-out Axial run-out from the interface to the contact face</p>

	<p>规范 刀柄及其接口都应符合这一规范。</p>	<p>Length compensation Compensation on compression and tension for quick change tapping chucks</p>	
		<p>内部冷却功能 1.带冷却功能 2.不带冷却功能</p>	<p>Coolant supply 1. Cool Stream bores include 2. Cool Stream bores possible as post-work</p>
		<p>冷却液供给 1.冷却孔包括在内 2.冷却孔尽可能保证高速切削性能</p>	<p>CoolStream 1. Cool Stream bores include 2. Cool Stream bores possible as post-work</p>
	<p>CAD数据 CAD数据按实际需要变更。</p>	<p>CAD data CAD data available on request</p>	
	<p>数据接口 适用于直柄部</p>	<p>VDI Tool Holders for Straight Shanks</p>	

Tool Holders JIS B 6339 (BT)

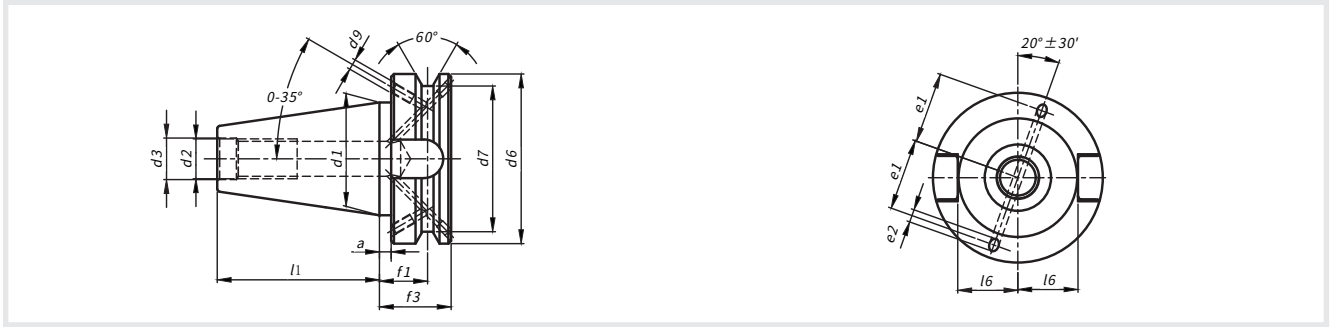
BT-JIS B 6339



JIS B 6339 型刀柄	Tools Holders of JIS B 6339	
热装夹头刀柄	i-tec® Shrink-fit Chucks	004
丝锥快换夹头刀柄	Quick Change Tapping Chucks	012
削平型直柄立铣刀柄	Reduction Sleeves for Straight Shanks	013
液压夹头刀柄	Hydraulic Expansion Chunks	018
弹簧夹头刀柄	Collet Chucks with internal thread	020
GSK高精度弹簧夹头刀柄	Collet Chucks GSK	023
套式铣刀柄	Shell End Mill Arbors	025
端铣刀柄	Shell End Mill Arbors with enlarged contact diameter	026
KFS模块式铣刀柄	Shell End Mill Arbors with coolant	030
莫氏圆锥孔刀柄	Reduction Sleeves for morse taper	032
三面刃铣刀柄	Side milling Cutter Arbor	035
套式立铣刀柄	Shell End Mill Arbors	037
钻夹头刀柄	Integrated Drill Chuck Arbors	039
强力铣夹头刀柄	Strong Chuck Holder For Boring and Milling	041
可调刀柄	Adjusting Clamping Tools	043
毛坯刀柄	Tools Blanks	044

日本标准锥柄 (BT) AD/B

Tool Holders JIS B 6339 AD/B

JIS
B6339
MAS 403 BTForm
AD/B

BT	d1	d2	d3/H8	d6/h8	d7	d9	l1±0.15	l6-0.2	e1±0.1	e2	a	f1	f3
40	44.45	M16	17	63	53	4	65.4	22.6	27	5	2	16.6	27
50	69.85	M24	25	100	85	6	101.8	35.4	42	7	3	23.2	38

符合JIS B 6339 AD/B型, 并且冷却时经过法兰的锥柄进行内冷却和外冷却。

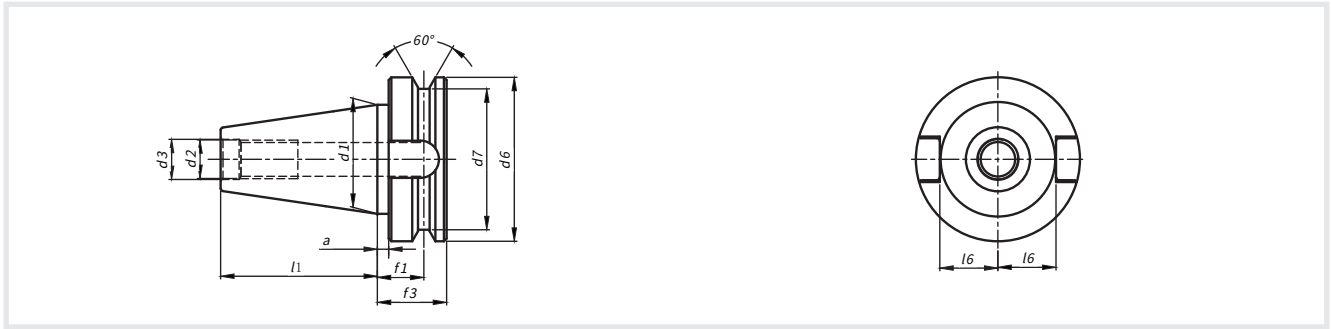
其中AD/B型有密封螺栓, 也可以按实际需要拆卸。

Conform with the JIS B 6339 AD / B and is internally cooled by flange and External cooling cone handle.

The type AD/B cooling hole is blocked by bolts, and it would also be disassembled according to the actual needs.

日本标准锥柄 (BT) AD

Tool Holders JIS B 6339 AD


 JIS
 B6339
 MAS 403 BT

 Form
 AD

BT	d1	d2	d3/H8	d6/h8	d7	l1±0.15	l6-0.2	a	f1	f3
30	31.75	M12	12.5	46	38	48.4	16.3	2	13.6	22
40	44.45	M16	17	63	53	65.4	22.6	2	16.6	27
50	69.85	M24	25	100	85	101.8	35.4	3	23.2	38
60	107.95	M30	31	155	135	161.8	60.1	3	28.2	48

内冷却符合JIS B 6339 AD型

设计:刀柄硬度应满足临界变形指数,硬度的应该维持在HV670±40(近似于HRC 58±2),淬硬(渗碳)层在0.5mm以上。其中,锥度公差AT3符合DIN 2080-1。

材料:符合硬度要求的合金钢,抗拉强度980N/MM²。

说明:价格和交付情况如有变化会在详单上实时变更。(单位:mm)

仅凯狮有权对此类产品的技术参数进行更改。

Central coolant supply according to JIS B 6339 Type AD.

Design: The hardness shall meet the low deformation, with HV 670±40 (approximately HRC 58±2) and hardened (carburize) layer above 0.5mm. Taper tolerance fits with DIN 2080-1 at AT3.

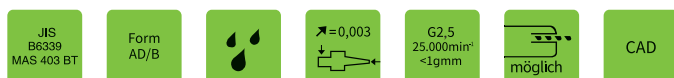
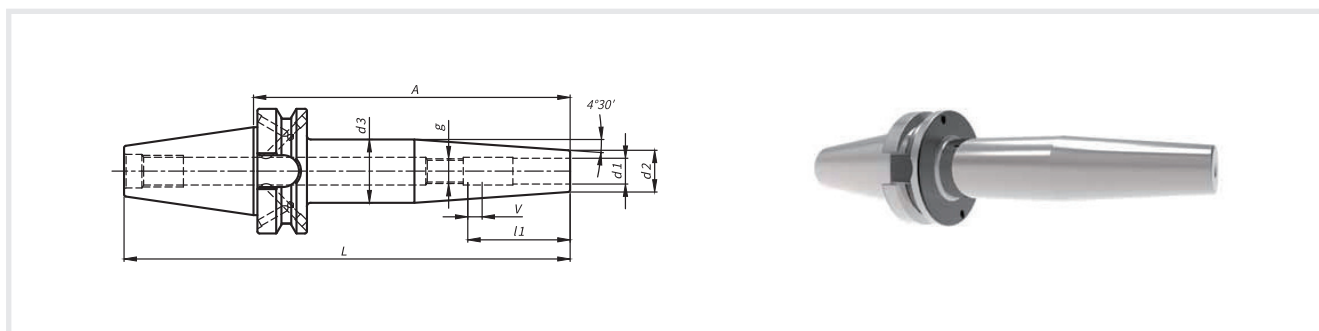
Material:The alloy steel material of the clamping tools meet the hardness requirements and can withstand tensile strength of 980 N/MM².

Description: Price and delivery will change in real time on the details. (Units in mm)

Only Kelch retain the authority to modify the technology.

热装夹头刀柄(标准型)

i-tec® Shrink-fit Chucks



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.6111.285	BT30-SRK3-80	30	3	80	12	17	-	-	128.4	-	0.5
311.6113.285	BT30-SRK4-80	30	4	80	12	17	-	-	128.4	-	0.5
311.6115.285	BT30-SRK5-80	30	5	80	12	17	-	-	128.4	-	0.5
311.6101.285	BT30-SRK6-80	30	6	80	21	32	36	M5	128.4	10	0.8
311.6151.285	BT30-SRK6-120	30	6	120	21	32	36	M5	168.4	10	1.0
311.6102.285	BT30-SRK8-80	30	8	80	21	32	36	M6	128.4	10	0.8
311.6152.285	BT30-SRK8-120	30	8	120	21	32	36	M6	168.4	10	1.0
311.6103.285	BT30-SRK10-80	30	10	80	24	34	41	M8×1	128.4	10	0.8
311.6153.285	BT30-SRK10-120	30	10	120	24	34	41	M8×1	168.4	10	1.1
311.6104.285	BT30-SRK12-80	30	12	80	24	34	47	M10×1	128.4	10	0.8
311.6154.285	BT30-SRK12-120	30	12	120	24	34	47	M10×1	168.4	10	1.1
311.6105.285	BT30-SRK14-80	30	14	80	27	36	47	M10×1	128.4	10	0.9
311.6155.285	BT30-SRK14-120	30	14	120	27	36	47	M10×1	168.4	10	1.2
311.6106.285	BT30-SRK16-80	30	16	80	27	36	50	M12×1	128.4	10	0.9
311.6156.285	BT30-SRK16-120	30	16	120	27	36	50	M12×1	168.4	10	1.2
311.6107.285	BT30-SRK18-80	30	18	80	33	43	50	M12×1	128.4	10	1.1
311.6157.285	BT30-SRK18-120	30	18	120	33	43	50	M12×1	168.4	10	1.5
311.6108.285	BT30-SRK20-80	30	20	80	33	43	52	M16×1	128.4	10	1.1
311.6158.285	BT30-SRK20-120	30	20	120	33	43	52	M16×1	168.4	10	1.5
311.0111.265	BT40-SRK3-80	40	3	80	12	17	-	-	145.4	-	1.1
311.0113.265	BT40-SRK4-80	40	4	80	12	17	-	-	145.4	-	1.1
311.0115.265	BT40-SRK5-80	40	5	80	12	17	-	-	145.4	-	1.1
311.0101.265	BT40-SRK6-90	40	6	90	21	31	36	M5	155.4	-	1.3
311.6031.265	BT40-SRK6-120	40	6	120	21	32	36	M5	185.4	-	1.6
311.0151.265	BT40-SRK6-160	40	6	160	21	32	36	M5	225.4	-	1.8
311.0102.265	BT40-SRK8-90	40	8	90	21	31	36	M6	155.4	-	1.3
311.6032.265	BT40-SRK8-120	40	8	120	21	32	36	M6	185.4	10	1.6
311.0152.265	BT40-SRK8-160	40	8	160	21	32	36	M6	225.4	10	1.8
311.0103.265	BT40-SRK10-90	40	10	90	24	34	41	M8×1	155.4	10	1.4
311.6033.265	BT40-SRK10-120	40	10	120	24	34	41	M8×1	185.4	10	1.6
311.0153.265	BT40-SRK10-160	40	10	160	24	34	41	M8×1	225.4	10	1.9

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.0104.265	BT40-SRK12-90	40	12	90	24	34	47	M10×1	155.4	10	1.4
311.6034.265	BT40-SRK12-120	40	12	120	24	34	47	M10×1	185.4	10	1.6
311.0154.265	BT40-SRK12-160	40	12	160	24	34	47	M10×1	225.4	10	1.9
311.0105.265	BT40-SRK14-90	40	14	90	27	36	47	M10×1	155.4	10	1.5
311.6035.265	BT40-SRK14-120	40	14	120	27	36	47	M10×1	185.4	10	1.7
311.0155.265	BT40-SRK14-160	40	14	160	27	36	47	M10×1	225.4	10	2.0
311.0106.265	BT40-SRK16-90	40	16	90	27	37	50	M12×1	155.4	10	1.5
311.6036.265	BT40-SRK16-120	40	16	120	27	37	50	M12×1	185.4	10	1.8
311.0156.265	BT40-SRK16-160	40	16	160	27	37	50	M12×1	225.4	10	2.1
311.0107.265	BT40-SRK18-90	40	18	90	33	43	50	M12×1	155.4	10	1.7
311.6037.265	BT40-SRK18-120	40	18	120	33	43	50	M12×1	185.4	10	2.0
311.0157.265	BT40-SRK18-160	40	18	160	33	43	50	M12×1	225.4	10	2.5
311.0108.265	BT40-SRK20-90	40	20	90	33	43	52	M16×1	155.4	10	1.7
311.6038.265	BT40-SRK20-120	40	20	120	33	43	52	M16×1	185.4	10	2.0
311.0158.265	BT40-SRK20-160	40	20	160	33	43	52	M16×1	225.4	10	2.5
311.0109.265	BT40-SRK25-100	40	25	100	44	48	58	M16×1	165.4	10	2.0
311.6039.265	BT40-SRK25-120	40	25	120	44	53	58	M16×1	185.4	10	2.6
311.0159.265	BT40-SRK25-160	40	25	160	44	53	58	M16×1	225.4	10	3.3
311.6111.225	BT50-SRK3-100	50	3	100	12	17	-	-	201.8	-	3.7
311.6113.225	BT50-SRK4-100	50	4	100	12	17	-	-	201.8	-	3.7
311.6115.225	BT50-SRK5-100	50	5	100	12	17	-	-	201.8	-	3.7
311.0101.225	BT50-SRK6-100	50	6	100	21	31	36	M5	201.8	10	4.0
431.0010.109	BT50-SRK6-130	50	6	130	21	32	36	M5	231.8	10	4.2
311.0151.225	BT50-SRK6-160	50	6	160	21	32	36	M5	261.8	10	4.4
311.6051.225	BT50-SRK6-200	50	6	200	21	32	36	M5	301.8	10	4.6
311.0102.225	BT50-SRK8-100	50	8	100	21	31	36	M6	201.8	10	4.0
431.0011.109	BT50-SRK8-130	50	8	130	21	32	36	M6	231.8	10	4.2
311.0152.225	BT50-SRK8-160	50	8	160	21	32	36	M6	261.8	10	4.4
311.6052.225	BT50-SRK8-200	50	8	200	21	32	36	M6	301.8	10	4.6
311.0103.225	BT50-SRK10-100	50	10	100	24	34	41	M8×1	201.8	10	4.0
431.0012.109	BT50-SRK10-130	50	10	130	24	34	41	M8×1	231.8	10	4.2
311.0153.225	BT50-SRK10-160	50	10	160	24	34	41	M8×1	261.8	10	4.5
311.6053.225	BT50-SRK10-200	50	10	200	24	34	41	M8×1	301.8	10	4.7
311.0104.225	BT50-SRK12-100	50	12	100	24	34	47	M10×1	201.8	10	4.0
431.0013.109	BT50-SRK12-130	50	12	130	24	34	47	M10×1	231.8	10	4.2
311.0154.225	BT50-SRK12-160	50	12	160	24	34	47	M10×1	261.8	10	4.5
311.6054.225	BT50-SRK12-200	50	12	200	24	34	47	M10×1	301.8	10	4.7
311.0105.225	BT50-SRK14-100	50	14	100	27	37	47	M10×1	201.8	10	4.1
431.0014.109	BT50-SRK14-130	50	14	130	27	36	47	M10×1	231.8	10	4.3
311.0155.225	BT50-SRK14-160	50	14	160	27	36	47	M10×1	261.8	10	4.6
311.6055.225	BT50-SRK14-200	50	14	200	27	36	47	M10×1	301.8	10	4.9
311.0106.225	BT50-SRK16-100	50	16	100	27	37	50	M12×1	201.8	10	4.1
431.0015.109	BT50-SRK16-130	50	16	130	27	36	50	M12×1	231.8	10	4.3
311.0156.225	BT50-SRK16-160	50	16	160	27	36	50	M12×1	261.8	10	4.6
311.6056.225	BT50-SRK16-200	50	16	200	27	36	50	M12×1	301.8	10	4.9
311.0107.225	BT50-SRK18-100	50	18	100	33	43	50	M12×1	201.8	10	4.3
431.0016.109	BT50-SRK18-130	50	18	130	33	44	50	M12×1	231.8	10	4.7

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.0157.225	BT50-SRK18-160	50	18	160	33	44	50	M12×1	261.8	10	5.0
311.6057.225	BT50-SRK18-200	50	18	200	33	44	50	M12×1	301.8	10	5.5
311.0108.225	BT50-SRK20-100	50	20	100	33	43	52	M16×1	201.8	10	4.3
431.0017.109	BT50-SRK20-130	50	20	130	33	44	52	M16×1	231.8	10	4.7
311.0158.225	BT50-SRK20-160	50	20	160	33	44	52	M16×1	261.8	10	5.0
311.6058.225	BT50-SRK20-200	50	20	200	33	44	52	M16×1	301.8	10	5.5
311.0109.225	BT50-SRK25-120	50	25	120	44	57	58	M16×1	221.8	10	5.2
311.0159.225	BT50-SRK25-160	50	25	160	44	53	58	M16×1	261.8	10	5.7
311.6059.225	BT50-SRK25-200	50	25	200	44	53	58	M16×1	301.8	10	6.4
311.0110.225	BT50-SRK32-120	50	32	120	44	57	61	M16×1	221.8	10	5.2
311.0160.225	BT50-SRK32-160	50	32	160	44	53	61	M16×1	261.8	10	5.7
311.6060.225	BT50-SRK32-200	50	32	200	44	53	61	M16×1	301.8	10	6.4

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-V尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

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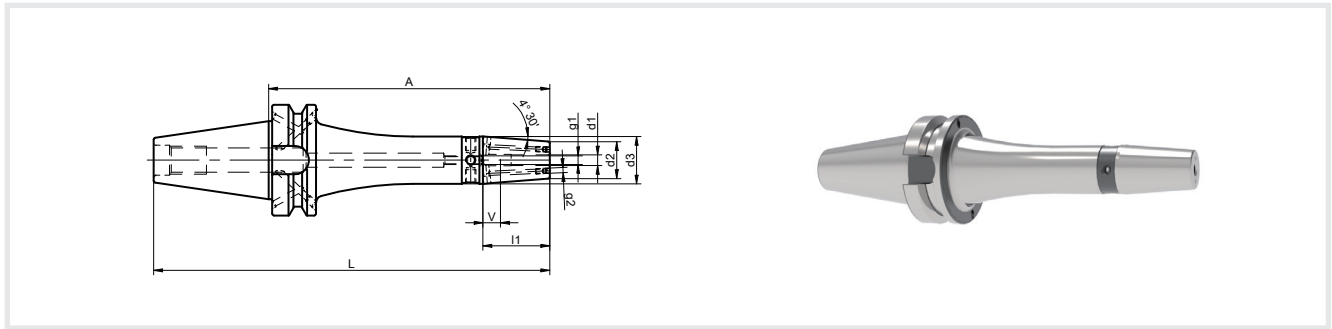
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热装夹头刀柄(端面冷却型)

i-tec® Shrink-fit Chuncks version



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.4451.265	BT40-SRK6-90C2	40	6	90	21	27	36	M5	155.4	-	1.3
431.0019.109	BT40-SRK6-120C2	40	6	120	21	27	36	M5	185.4	-	1.6
311.4481.265	BT40-SRK6-160C2	40	6	160	21	27	36	M5	225.4	-	1.8
311.4452.265	BT40-SRK8-90C2	40	8	90	21	27	36	M6	155.4	-	1.3
431.0022.109	BT40-SRK8-120C2	40	8	120	21	27	36	M6	185.4	10	1.6
311.4482.265	BT40-SRK8-160C2	40	8	160	21	27	36	M6	225.4	10	1.8
311.4453.265	BT40-SRK10-90C2	40	10	90	24	32	41	M8×1	155.4	10	1.4
431.0025.109	BT40-SRK10-120C2	40	10	120	24	32	41	M8×1	185.4	10	1.6
311.4483.265	BT40-SRK10-160C2	40	10	160	24	32	41	M8×1	225.4	10	1.9
311.4454.265	BT40-SRK12-90C2	40	12	90	24	32	47	M10×1	155.4	10	1.4
431.0028.109	BT40-SRK12-120C2	40	12	120	24	32	47	M10×1	185.4	10	1.6
311.4484.265	BT40-SRK12-160C2	40	12	160	24	32	47	M10×1	225.4	10	1.9
311.4455.265	BT40-SRK14-90C2	40	14	90	27	34	47	M10×1	155.4	10	1.5
431.0031.109	BT40-SRK14-120C2	40	14	120	27	34	47	M10×1	185.4	10	1.7
311.4485.265	BT40-SRK14-160C2	40	14	160	27	34	47	M10×1	225.4	10	2.0
311.4456.265	BT40-SRK16-90C2	40	16	90	27	34	50	M12×1	155.4	10	1.5
431.0034.109	BT40-SRK16-120C2	40	16	120	27	34	50	M12×1	185.4	10	1.8
311.4486.265	BT40-SRK16-160C2	40	16	160	27	34	50	M12×1	225.4	10	2.1
311.4457.265	BT40-SRK18-90C2	40	18	90	33	42	50	M12×1	155.4	10	1.7
431.0037.109	BT40-SRK18-120C2	40	18	120	33	42	50	M12×1	185.4	10	2.0
311.4487.265	BT40-SRK18-160C2	40	18	160	33	42	50	M12×1	225.4	10	2.5
311.4458.265	BT40-SRK20-90C2	40	20	90	33	42	52	M16×1	155.4	10	1.7
431.0040.109	BT40-SRK20-120C2	40	20	120	33	42	52	M16×1	185.4	10	2.0
311.4488.265	BT40-SRK20-160C2	40	20	160	33	42	52	M16×1	225.4	10	2.5
311.4459.265	BT40-SRK25-100C2	40	25	100	44	52.5	58	M16×1	165.4	10	2.0
431.0043.109	BT40-SRK25-120C2	40	25	120	44	52.5	58	M16×1	185.4	10	2.6
311.4489.265	BT40-SRK25-160C2	40	25	160	44	52.5	58	M16×1	225.4	10	3.3
311.4451.225	BT50-SRK6-100C2	50	6	100	21	27	36	M5	201.8	10	4.0
431.0046.109	BT50-SRK6-130C2	50	6	130	21	27	36	M5	231.8	10	4.2
311.4481.225	BT50-SRK6-160C2	50	6	160	21	27	36	M5	261.8	10	4.4
431.0048.109	BT50-SRK6-200C2	50	6	200	21	27	36	M5	301.8	10	4.6

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.4452.225	BT50-SRK8-100C2	50	8	100	21	27	36	M6	201.8	10	4.0
431.0050.109	BT50-SRK8-130C2	50	8	130	21	27	36	M6	231.8	10	4.2
311.4482.225	BT50-SRK8-160C2	50	8	160	21	27	36	M6	261.8	10	4.4
431.0052.109	BT50-SRK8-200C2	50	8	200	21	27	36	M6	301.8	10	4.6
311.4453.225	BT50-SRK10-100C2	50	10	100	24	32	41	M8×1	201.8	10	4.0
431.0054.109	BT50-SRK10-130C2	50	10	130	24	32	41	M8×1	231.8	10	4.2
311.4483.225	BT50-SRK10-160C2	50	10	160	24	32	41	M8×1	261.8	10	4.5
431.0056.109	BT50-SRK10-200C2	50	10	200	24	32	41	M8×1	301.8	10	4.7
311.4454.225	BT50-SRK12-100C2	50	12	100	24	32	47	M10×1	201.8	10	4.0
431.0058.109	BT50-SRK12-130C2	50	12	130	24	32	47	M10×1	231.8	10	4.2
311.4484.225	BT50-SRK12-160C2	50	12	160	24	32	47	M10×1	261.8	10	4.5
431.0060.109	BT50-SRK12-200C2	50	12	200	24	32	47	M10×1	301.8	10	4.7
311.4455.225	BT50-SRK14-100C2	50	14	100	27	34	47	M10×1	201.8	10	4.1
431.0062.109	BT50-SRK14-130C2	50	14	130	27	34	47	M10×1	231.8	10	4.3
311.4485.225	BT50-SRK14-160C2	50	14	160	27	34	47	M10×1	261.8	10	4.6
431.0064.109	BT50-SRK14-200C2	50	14	200	27	34	47	M10×1	301.8	10	4.9
311.4456.225	BT50-SRK16-100C2	50	16	100	27	34	50	M12×1	201.8	10	4.1
431.0066.109	BT50-SRK16-130C2	50	16	130	27	34	50	M12×1	231.8	10	4.3
311.4486.225	BT50-SRK16-160C2	50	16	160	27	34	50	M12×1	261.8	10	4.6
431.0068.109	BT50-SRK16-200C2	50	16	200	27	34	50	M12×1	301.8	10	4.9
311.4457.225	BT50-SRK18-100C2	50	18	100	33	42	50	M12×1	201.8	10	4.3
431.0070.109	BT50-SRK18-130C2	50	18	130	33	42	50	M12×1	231.8	10	4.7
311.4487.225	BT50-SRK18-160C2	50	18	160	33	42	50	M12×1	261.8	10	5.0
431.0072.109	BT50-SRK18-200C2	50	18	200	33	42	50	M12×1	301.8	10	5.5
311.4458.225	BT50-SRK20-100C2	50	20	100	33	42	52	M16×1	201.8	10	4.3
431.0074.109	BT50-SRK20-130C2	50	20	130	33	42	52	M16×1	231.8	10	4.7
311.4488.225	BT50-SRK20-160C2	50	20	160	33	42	52	M16×1	261.8	10	5.0
431.0076.109	BT50-SRK20-200C2	50	20	200	33	42	52	M16×1	301.8	10	5.5
311.4459.225	BT50-SRK25-120C2	50	25	120	44	52.5	58	M16×1	221.8	10	5.2
311.4489.225	BT50-SRK25-160C2	50	25	160	44	52.5	58	M16×1	261.8	10	5.7
431.0079.109	BT50-SRK25-200C2	50	25	200	44	52.5	58	M16×1	301.8	10	6.4
311.4460.225	BT50-SRK32-120C2	50	32	120	44	52.5	61	M16×1	221.8	10	5.2
311.4490.225	BT50-SRK32-160C2	50	32	160	44	52.5	61	M16×1	261.8	10	5.7
431.0082.109	BT50-SRK32-200C2	50	32	200	44	52.5	61	M16×1	301.8	10	6.4

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

1. 其他型号和尺寸可按订货要求制作。
2. 装夹刀具的刀柄夹紧长度必须保证L1-V尺寸, 否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
3. 建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

1. Other designs and sizes are available on request.
2. Toolholder clamping length must be same to size L1-V. if not, problem may happen such as clamping force maybe reduced, tools fall off the holder, tool couldn't be dismantled or toolholder damage and so on.
3. Special shrinking devices are recommended for tool mounting and dismantling.

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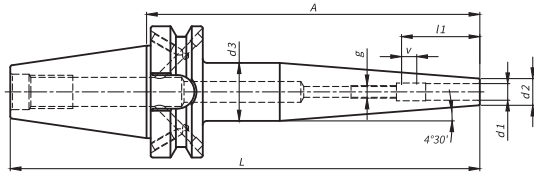
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热装夹头刀柄(细长型)

i-tec® Shrink-fit Chunks silm version



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.6700.285	BT30-SRK3-120SL	30	3	120	9	25	-	-	168.4	-	0.7
311.6701.285	BT30-SRK4-120SL	30	4	120	9	25	-	-	168.4	-	0.7
311.6702.285	BT30-SRK5-120SL	30	5	120	9	25	-	-	168.4	-	0.7
311.6703.285	BT30-SRK6-120SL	30	6	120	15	30	36	M5	168.4	10	0.9
311.6704.285	BT30-SRK8-120SL	30	8	120	15	30	36	M6	168.4	10	0.9
311.6705.285	BT30-SRK10-120SL	30	10	120	18	32	41	M8×1	168.4	10	0.9
311.6706.285	BT30-SRK12-120SL	30	12	120	18	32	47	M10×1	168.4	10	0.9
311.0700.265	BT40-SRK3-120SL	40	3	120	9	24	-	-	185.4	-	1.3
311.0710.265	BT40-SRK3-160SL	40	3	160	9	25	-	-	225.4	-	1.4
311.0701.265	BT40-SRK4-120SL	40	4	120	9	24	-	-	185.4	-	1.3
311.0711.265	BT40-SRK4-160SL	40	4	160	9	25	-	-	225.4	-	1.4
311.0702.265	BT40-SRK5-120SL	40	5	120	9	24	-	-	185.4	-	1.3
311.0712.265	BT40-SRK5-160SL	40	5	160	9	25	-	-	225.4	-	1.4
311.0703.265	BT40-SRK6-120SL	40	6	120	15	30	36	M5	185.4	10	1.4
311.0713.265	BT40-SRK6-160SL	40	6	160	15	30	36	M5	225.4	10	1.6
311.0704.265	BT40-SRK8-120SL	40	8	120	15	30	36	M6	185.4	10	1.4
311.0714.265	BT40-SRK8-160SL	40	8	160	15	30	36	M6	225.4	10	1.6
311.0705.265	BT40-SRK10-120SL	40	10	120	18	33	41	M8×1	185.4	10	1.5
311.0715.265	BT40-SRK10-160SL	40	10	160	18	32	41	M8×1	225.4	10	1.7
311.0706.265	BT40-SRK12-120SL	40	12	120	18	34	47	M10×1	185.4	10	1.6
311.0716.265	BT40-SRK12-160SL	40	12	160	18	32	47	M10×1	225.4	10	1.7
311.0700.225	BT50-SRK3-120SL	50	3	120	9	22	-	-	221.8	-	3.8
311.0710.225	BT50-SRK3-160SL	50	3	160	9	25	-	-	261.8	-	4.0
311.0701.225	BT50-SRK4-120SL	50	4	120	9	22	-	-	221.8	-	3.8
311.0711.225	BT50-SRK4-160SL	50	4	160	9	25	-	-	261.8	-	4.0
311.0702.225	BT50-SRK5-120SL	50	5	120	9	22	-	-	221.8	-	3.8
311.0712.225	BT50-SRK5-160SL	50	5	160	9	25	-	-	261.8	-	4.0
311.0703.225	BT50-SRK6-120SL	50	6	120	15	31	36	M5	221.8	10	4.0
311.0713.225	BT50-SRK6-160SL	50	6	160	15	30	36	M5	261.8	10	4.2

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0704.225	BT50-SRK8-120SL	50	8	120	15	31	36	M6	221.8	10	4.0
311.0714.225	BT50-SRK8-160SL	50	8	160	15	30	36	M6	261.8	10	4.2
311.0705.225	BT50-SRK10-120SL	50	10	120	18	34	41	M8×1	221.8	10	4.1
311.0715.225	BT50-SRK10-160SL	50	10	160	18	32	41	M8×1	261.8	10	4.3
311.0706.225	BT50-SRK12-120SL	50	12	120	18	34	47	M10×1	221.8	10	4.1
311.0716.225	BT50-SRK12-160SL	50	12	160	18	32	47	M10×1	261.8	10	4.3

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-V尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

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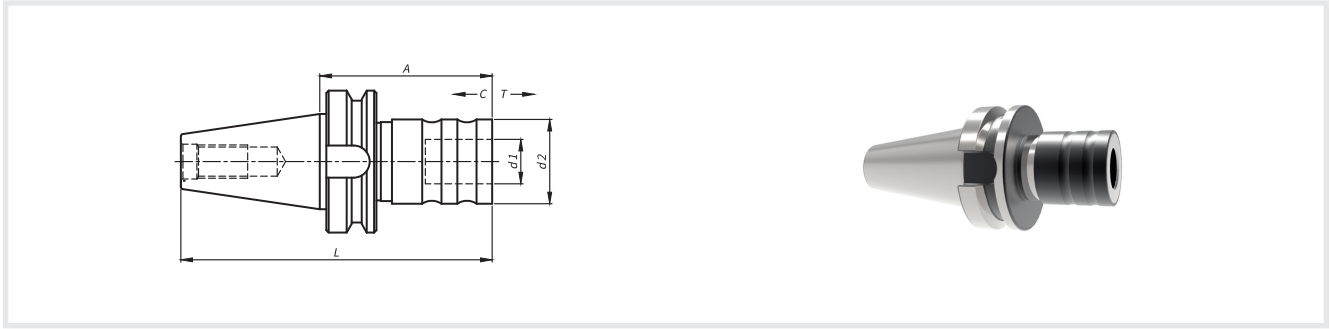
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丝锥快换夹头刀柄

Quick Change Tapping Chucks



No.	Model	Size	M	A	d1	d2	L	C	T	kg
440.0160.161	BT30-G3-66.5	30	M3-M14	66.5	19	36	114.9	6.5	7.5	0.7
440.0161.161	BT30-G3-120	30	M3-M14	120	19	36	168.4	6.5	7.5	1.1
440.0001.265	BT40-G3-66.5	40	M3-M14	66.5	19	36	131.9	6.5	7.5	1.3
440.0109.161	BT40-G3-120	40	M3-M14	120	19	36	185.4	6.5	7.5	1.6
440.0002.265	BT40-G8-93.5	40	M4.5-M24	93.5	31	53	158.9	8.5	15	2.0
440.0111.161	BT40-G8-150	40	M4.5-M24	150	31	53	215.4	8.5	15	2.9
440.0003.225	BT50-G3-82	50	M3-M14	82	19	36	183.8	6.5	7.5	3.9
440.0001.225	BT50-G8-101.5	50	M4.5-M24	101.5	31	53	203.3	8.5	15	4.6
440.0113.161	BT50-G8-180	50	M4.5-M24	180	31	53	281.8	8.5	15	5.8
440.0114.161	BT50-G14-140	50	M14-M33	140	48	78	241.8	15	23	7.0
440.0115.161	BT50-G14-200	50	M14-M33	200	48	78	301.8	15	23	9.1

使用方向:用于夹持带或不带安全机构的快换丝锥夹套。

设计:

- 1.长度补偿在收缩和拉伸方向取决于进给和螺距的不同。
- 2.当攻丝的轴向力达到临界值时会立即切断攻丝,以避免拉力释放时,夹套因承受过大轴向拉力造成不可逆的损害。

注意:其他型号和尺寸可按订货要求制作。

Use: For holding quick change inserts with or without safety clutch.

Design:

1. Length compensation on compression and tension to compensate the difference between feed and tap pitch.
- 2.The pressure point mechanism guarantees that the tap immediately cuts the thread as soon as the permissible axial force is reached.

The tension lock protects the tapping chuck against damage as a result of high axial tensile load.

Note:Other designs and sizes are available on request.

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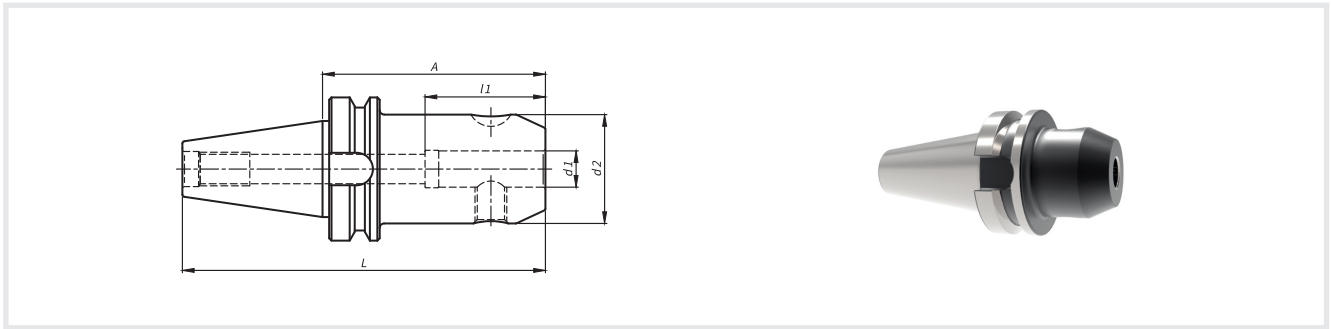
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削平型直柄立铣刀柄(威尔顿凹口型)

Reduction Sleeves for Straight Shanks with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	L	Tol./d1	Screw	kg
440.0360.009	BT30-EM6-50	30	6	50	25	35	98.4	+0.005	M6X10	0.5
440.0361.009	BT30-EM8-50	30	8	50	28	35	98.4	+0.005	M8X10	0.5
440.0362.009	BT30-EM10-63	30	10	63	35	39	111.4	+0.005	M10X12	0.7
440.0363.009	BT30-EM12-63	30	12	63	42	44	111.4	+0.005	M12X16	0.8
440.0364.009	BT30-EM16-63	30	16	63	48	47	111.4	+0.005	M14X16	1.0
440.0365.009	BT30-EM20-63	30	20	63	52	49	111.4	+0.007	M16X16	1.1
420.0011.265	BT40-EM6-50	40	6	50	25	35	115.4	+0.005	M6X10	1.1
440.0100.009	BT40-EM6-100	40	6	100	25	35	165.4	+0.005	M6X10	1.3
440.0101.009	BT40-EM6-160	40	6	160	25	35	225.4	+0.005	M6X10	1.5
420.0012.265	BT40-EM8-50	40	8	50	28	35	115.4	+0.005	M8X10	1.1
440.0102.009	BT40-EM8-100	40	8	100	28	35	165.4	+0.005	M8X10	1.3
440.0103.009	BT40-EM8-160	40	8	160	28	35	225.4	+0.005	M8X10	1.6
420.0003.265	BT40-EM10-63	40	10	63	35	39	128.4	+0.005	M10X12	1.2
440.0104.009	BT40-EM10-100	40	10	100	35	39	165.4	+0.005	M10X12	1.5
440.0105.009	BT40-EM10-160	40	10	160	35	39	225.4	+0.005	M10X12	2.0
420.0004.265	BT40-EM12-63	40	12	63	42	44	128.4	+0.005	M12X16	1.4
440.0106.009	BT40-EM12-100	40	12	100	42	44	165.4	+0.005	M12X16	1.8
440.0107.009	BT40-EM12-160	40	12	160	42	44	225.4	+0.005	M12X16	2.4
420.0044.265	BT40-EM14-63	40	14	63	44	44	128.4	+0.005	M12X16	1.4
440.0108.009	BT40-EM14-100	40	14	100	44	44	165.4	+0.005	M12X16	1.8
440.0109.009	BT40-EM14-160	40	14	160	44	44	225.4	+0.005	M12X16	2.6
420.0005.265	BT40-EM16-63	40	16	63	48	47	128.4	+0.005	M14X16	1.5
440.0110.009	BT40-EM16-100	40	16	100	48	47	165.4	+0.005	M14X16	2.0
440.0111.009	BT40-EM16-160	40	16	160	48	47	225.4	+0.005	M14X16	2.9
420.0048.265	BT40-EM18-63	40	18	63	50	47	128.4	+0.005	M14X16	1.5
440.0112.009	BT40-EM18-100	40	18	100	50	47	165.4	+0.005	M14X16	2.1
440.0113.009	BT40-EM18-160	40	18	160	50	47	225.4	+0.005	M14X16	3.0
420.0006.265	BT40-EM20-63	40	20	63	52	49	128.4	+0.007	M16X16	1.6
440.0114.009	BT40-EM20-100	40	20	100	52	49	165.4	+0.007	M16X16	2.2
440.0115.009	BT40-EM20-160	40	20	160	52	49	225.4	+0.007	M16X16	3.2

No.	Model	Size	d1	A	d2	l1	L	Tol./d1	Screw	kg
420.0007.265	BT40-EM25-90	40	25	90	65	54	155.4	+0.007	M18X2X20	2.6
440.0116.009	BT40-EM25-120	40	25	120	65	54	185.4	+0.007	M18X2X20	3.4
440.0117.009	BT40-EM25-160	40	25	160	65	54	225.4	+0.007	M18X2X20	4.4
420.0008.265	BT40-EM32-100	40	32	100	72	58	165.4	+0.007	M20X2X20	3.3
440.0118.009	BT40-EM32-160	40	32	160	72	58	225.4	+0.007	M20X2X20	5.2
440.0119.009	BT40-EM32-200	40	32	200	72	58	265.4	+0.007	M20X2X20	6.5
420.0011.225	BT50-EM6-63	50	6	63	25	35	164.8	+0.005	M6X10	3.7
440.0120.009	BT50-EM6-100	50	6	100	25	35	201.8	+0.005	M6X10	3.8
440.0121.009	BT50-EM6-160	50	6	160	25	35	261.8	+0.005	M6X10	4.1
420.0012.225	BT50-EM8-63	50	8	63	28	35	164.8	+0.005	M8X10	3.7
440.0122.009	BT50-EM8-100	50	8	100	28	35	201.8	+0.005	M8X10	3.9
440.0123.009	BT50-EM8-160	50	8	160	28	35	261.8	+0.005	M8X10	4.2
420.0013.225	BT50-EM10-63	50	10	63	35	39	164.8	+0.005	M10X12	3.8
440.0124.009	BT50-EM10-100	50	10	100	35	39	201.8	+0.005	M10X12	4.1
440.0125.009	BT50-EM10-160	50	10	160	35	39	261.8	+0.005	M10X12	4.5
420.0004.225	BT50-EM12-80	50	12	80	42	44	181.8	+0.005	M12X16	4.0
440.0126.009	BT50-EM12-120	50	12	120	42	44	221.8	+0.005	M12X16	4.5
440.0127.009	BT50-EM12-160	50	12	160	42	44	261.8	+0.005	M12X16	4.9
420.0044.225	BT50-EM14-80	50	14	80	44	44	181.8	+0.005	M12X16	4.1
440.0128.009	BT50-EM14-120	50	14	120	44	44	221.8	+0.005	M12X16	4.6
440.0129.009	BT50-EM14-160	50	14	160	44	44	261.8	+0.005	M12X16	5.0
420.0005.225	BT50-EM16-80	50	16	80	48	47	181.8	+0.005	M14X16	4.2
440.0130.009	BT50-EM16-120	50	16	120	48	47	221.8	+0.005	M14X16	4.8
440.0131.009	BT50-EM16-160	50	16	160	48	47	261.8	+0.005	M14X16	5.3
420.0048.225	BT50-EM18-80	50	18	80	50	47	181.8	+0.005	M14X16	4.2
440.0132.009	BT50-EM18-120	50	18	120	50	47	221.8	+0.005	M14X16	4.9
440.0133.009	BT50-EM18-160	50	18	160	50	47	261.8	+0.005	M14X16	5.5
420.0006.225	BT50-EM20-80	50	20	80	52	49	181.8	+0.007	M16X16	4.3
440.0134.009	BT50-EM20-120	50	20	120	52	49	221.8	+0.007	M16X16	5.0
440.0135.009	BT50-EM20-160	50	20	160	52	49	261.8	+0.007	M16X16	5.6
420.0007.225	BT50-EM25-100	50	25	100	65	54	201.8	+0.007	M18X2X20	5.2
440.0136.009	BT50-EM25-160	50	25	160	65	54	261.8	+0.007	M18X2X20	6.8
440.0137.009	BT50-EM25-200	50	25	200	65	54	301.8	+0.007	M18X2X20	7.8
420.0018.225	BT50-EM32-105	50	32	105	72	58	206.8	+0.007	M20X2X20	5.7
440.0138.009	BT50-EM32-160	50	32	160	72	58	261.8	+0.007	M20X2X20	7.5
440.0139.009	BT50-EM32-200	50	32	200	72	58	301.8	+0.007	M20X2X20	8.8
440.0044.009	BT50-EM40-125	50	40	125	80	75	226.8	+0.007	M20X2X20	7.0
440.0140.009	BT50-EM40-160	50	40	160	80	75	261.8	+0.007	M20X2X20	8.4
440.0141.009	BT50-EM40-200	50	40	200	80	75	301.8	+0.007	M20X2X20	10.0
440.0045.009	BT50-EM50-125	50	50	125	90	88	226.8	+0.007	M24X2X20	7.9
440.0142.009	BT50-EM50-160	50	50	160	90	88	261.8	+0.007	M24X2X20	9.7
440.0143.009	BT50-EM50-200	50	50	200	90	88	301.8	+0.007	M24X2X20	11.7

No.	Model	Size	d1	A	d2	l1	L	ToL./d1	Screw	kg
440.0047.009	BT60-EM25-110	60	25	110	65	54	271.8	+0.007	M18X2X20	14.6
440.0048.009	BT60-EM32-125	60	32	125	72	58	286.8	+0.007	M20X2X20	15.4
440.0049.009	BT60-EM40-125	60	40	125	80	75	286.8	+0.007	M20X2X20	16.0
440.0050.009	BT60-EM50-150	60	50	150	90	88	311.8	+0.007	M24X2X20	18.1
440.0051.009	BT60-EM63-180	60	63	180	120	98	341.8	+0.007	M24X2X20	24.7

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

注意:

Note:

- 1.带孔的止动螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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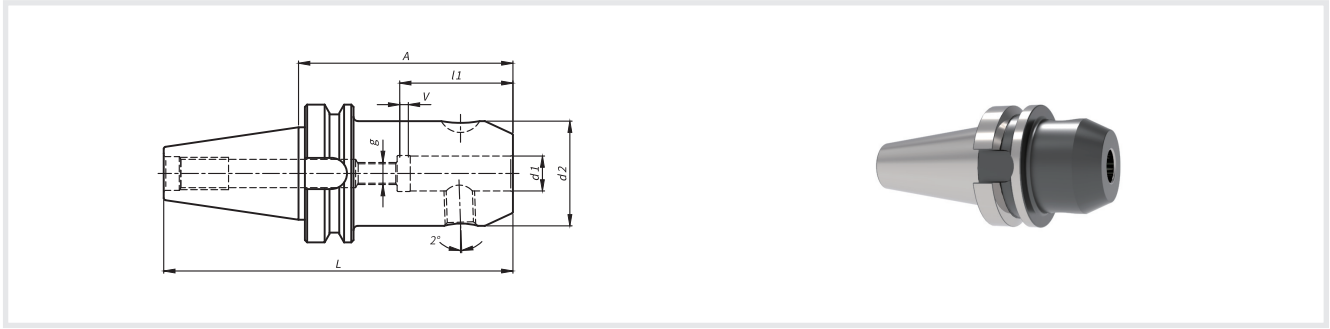
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2°斜削平型直柄立铣刀柄(威斯尔凹口型)

Reduction Sleeves for Straight Shanks 2° with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	g	L	Tol./d1	Screw	kg
420.0506.265	BT40-EME6-50	40	6	50	25	38	M5	115.4	+0.005	M6X10	1.0
420.0508.265	BT40-EME8-50	40	8	50	28	38	M6	115.4	+0.005	M8X10	1.1
420.0510.265	BT40-EME10-63	40	10	63	35	41	M8	128.4	+0.005	M10X12	1.2
420.0512.265	BT40-EME12-63	40	12	63	42	47	M10	128.4	+0.005	M12X16	1.3
420.0514.265	BT40-EME14-63	40	14	63	44	47	M10	128.4	+0.005	M12X16	1.4
420.0516.265	BT40-EME16-63	40	16	63	48	50	M12	128.4	+0.005	M14X16	1.4
420.0518.265	BT40-EME18-63	40	18	63	50	50	M12	128.4	+0.005	M14X16	1.5
420.0520.265	BT40-EME20-63	40	20	63	52	52	M16	128.4	+0.007	M16X16	1.5
420.0525.265	BT40-EME25-90	40	25	90	65	58	M20	155.4	+0.007	M18X2X20	2.4
420.0532.265	BT40-EME32-100	40	32	100	72	61	M20	165.4	+0.007	M20X2X20	3.1
420.0606.225	BT50-EME6-63	50	6	63	25	38	M5	164.8	+0.005	M6X10	3.7
420.0608.225	BT50-EME8-63	50	8	63	28	38	M6	164.8	+0.005	M8X10	3.7
420.0610.225	BT50-EME10-63	50	10	63	35	41	M8	164.8	+0.005	M10X12	3.8
420.0612.225	BT50-EME12-80	50	12	80	42	47	M10	181.8	+0.005	M12X16	4.0
420.0614.225	BT50-EME14-80	50	14	80	44	47	M10	181.8	+0.005	M12X16	4.0
420.0616.225	BT50-EME16-80	50	16	80	48	50	M12	181.8	+0.005	M14X16	4.1
420.0618.225	BT50-EME18-80	50	18	80	50	50	M12	181.8	+0.005	M14X16	4.2
420.0620.225	BT50-EME20-80	50	20	80	52	52	M16	181.8	+0.007	M16X16	4.2
420.0625.225	BT50-EME25-100	50	25	100	65	58	M20	201.8	+0.007	M18X2X20	5.0
420.0632.225	BT50-EME32-105	50	32	105	72	61	M20	206.8	+0.007	M20X2X20	5.5

使用方向:此2°刀柄按 DIN 1835E型和DIN 6535 HE型夹持直柄铣刀。

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

注意:

- 1.带孔的止动螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

Use: For holding shank tools with inclined clamping with 2 angle, DIN 1835 E and DIN 6535 HE.

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

Note:

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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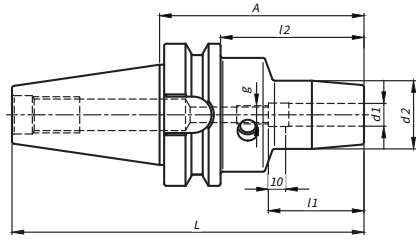
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液压夹头刀柄

Hydraulic Expansion Chunks



No.	Model	Size	d1	A	d2	l1	l2	g	L	kg
702.0001.285	BT30-HD6-75	30	6	75	26	37	53	M5	123.4	1.1
702.0002.285	BT30-HD8-75	30	8	75	28	37	53	M6	123.4	1.1
702.0003.285	BT30-HD10-85	30	10	85	30	41	63	M8	133.4	1.2
702.0004.285	BT30-HD12-90	30	12	90	32	46	68	M8	138.4	1.3
702.0006.285	BT30-HD16-90	30	16	90	38	49	68	M8	138.4	1.3
702.0008.285	BT30-HD20-90	30	20	90	42	51	68	M8	138.4	1.3
702.0001.265	BT40-HD6-90	40	6	90	26	37	63	M5	155.4	1.9
702.0002.265	BT40-HD8-90	40	8	90	28	37	63	M6	155.4	1.9
702.0003.265	BT40-HD10-90	40	10	90	30	41	63	M8	155.4	1.9
702.0004.265	BT40-HD12-90	40	12	90	32	46	63	M10	155.4	1.9
702.0037.265	BT40-HD12-150	40	12	150	32	46	123	M10	215.4	2.9
702.0038.265	BT40-HD12-200	40	12	200	32	46	173	M10	265.4	3.6
702.0005.265	BT40-HD14-90	40	14	90	34	46	63	M10	155.4	1.9
702.0006.265	BT40-HD16-90	40	16	90	38	49	63	M12	155.4	1.9
702.0007.265	BT40-HD18-90	40	18	90	40	49	63	M12	155.4	1.9
702.0008.265	BT40-HD20-90	40	20	90	42	51	63	M16	155.4	1.9
702.0045.265	BT40-HD20-150	40	20	150	42	51	123	M16	215.4	2.9
702.0046.265	BT40-HD20-200	40	20	200	42	51	173	M16	265.4	3.6
702.0009.265	BT40-HD25-100	40	25	100	50	57	73	M16	165.4	2.3
702.0010.265	BT40-HD32-110	40	32	110	63	61	83	M16	175.4	3.0
702.0001.225	BT50-HD6-110	50	6	110	26	37	72	M5	211.8	4.7
702.0002.225	BT50-HD8-110	50	8	110	28	37	72	M6	211.8	4.7
702.0003.225	BT50-HD10-110	50	10	110	30	41	72	M8	211.8	4.7
702.0004.225	BT50-HD12-110	50	12	110	32	46	72	M10	211.8	4.7
702.0037.225	BT50-HD12-150	50	12	150	32	46	112	M10	251.8	5.3
702.0038.225	BT50-HD12-200	50	12	200	32	46	162	M10	301.8	6.1
702.0005.225	BT50-HD14-110	50	14	110	34	46	72	M10	211.8	4.7
702.0006.225	BT50-HD16-110	50	16	110	38	49	72	M12	211.8	4.7
702.0007.225	BT50-HD18-110	50	18	110	40	49	72	M12	211.8	4.7

No.	Model	Size	d1	A	d2	l1	l2	g	L	kg
702.0008.225	BT50-HD20-110	50	20	110	42	51	72	M16	211.8	4.7
702.0045.225	BT50-HD20-150	50	20	150	42	51	112	M16	251.8	5.3
702.0046.225	BT50-HD20-200	50	20	200	42	51	162	M16	301.8	6.1
702.0009.225	BT50-HD25-110	50	25	110	55	57	72	M16	211.8	4.9
702.0010.225	BT50-HD32-115	50	32	115	63	61	77	M16	216.8	5.9

用途:用于DIN1835 A、B型和DIN6535 HA、HB型,其中DIN6535 HE型仅适用于带衬套的刀具。

设计:夹持精度为h6,粗糙度最小为Ra0.3,对于 $\phi 25$ 和 $\phi 32$ 尺寸只有A、HA型可用。

注意:

- 1.其他设计和尺寸也可根据要求提供。
- 2.工具架夹紧长度必须与尺寸L1-V相同,否则可能会出现夹紧力减少、工具从支架上脱落、工具无法拆卸或工具架损坏等问题。

Use: For shank tools according to DIN 1835 type A and B and DIN 6535 type HA and HB.

Shanks according to DIN 6535 type HE can only be used together with reduction bushes.

Design: Shank quality h6, Ra min. = 0.3. For $\phi 25$ and $\phi 32$ only type A or HA can be used.

Note:

1. Other designs and sizes are available on request.
2. Toolholder clamping length must be same to size L1-V. If not, problem may happen such as clamping force maybe reduced, tools fall off the holder, tool couldn't be dismantled or toolholder damage and so on.

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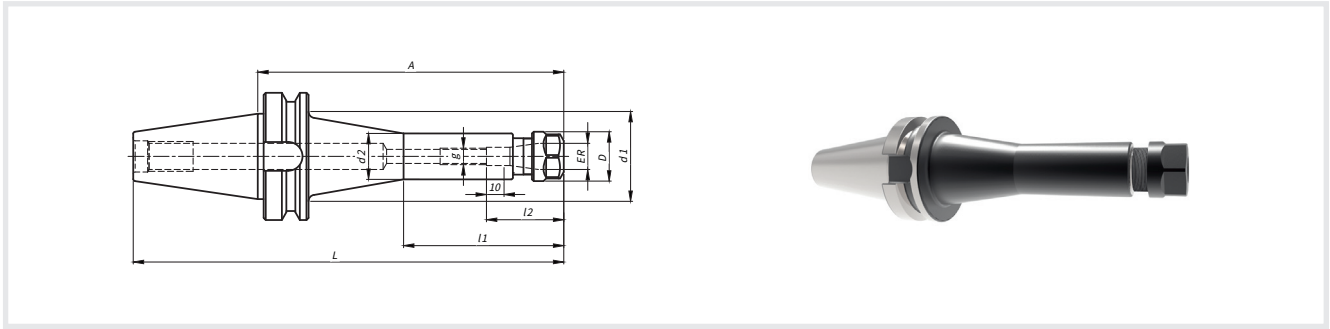
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ER/ESX 11/16弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 11/16 with internal thread



No.	Model	Size	ER	A	d1	d2	D	l1	l2	g	L	kg
640.0270.040	BT30-ER11-50	30	ER11(0.5-7)	50	-	19	19	-	18	M6	98.4	0.5
640.0260.040	BT30-ER11-70	30	ER11(0.5-7)	70	-	19	19	-	18	M6	118.4	0.5
640.0261.040	BT30-ER11-100	30	ER11(0.5-7)	100	-	19	19	-	18	M6	148.4	0.6
640.0271.040	BT30-ER16-50	30	ER16(0.5-10)	50	-	28	28	-	27	M10	98.4	0.5
640.0262.040	BT30-ER16-80	30	ER16(0.5-10)	80	-	28	28	-	27	M10	128.4	0.7
640.0263.040	BT30-ER16-100	30	ER16(0.5-10)	100	-	28	28	-	27	M10	148.4	0.8
640.0010.040	BT40-ER11-63	40	ER11(0.5-7)	63	-	18.5	19	-	18	M6	128.4	1.1
640.0011.040	BT40-ER11-100	40	ER11(0.5-7)	100	-	18.5	19	-	18	M6	165.4	1.1
640.0012.040	BT40-ER11-200	40	ER11(0.5-7)	200	-	18.5	19	-	18	M6	265.4	1.4
698.0001.265	BT40-ER16-63	40	ER16(0.5-10)	63	-	28	28	-	27	M12	128.4	1.1
698.0002.265	BT40-ER16-100	40	ER16(0.5-10)	100	-	28	28	-	27	M12	165.4	1.3
698.0003.265	BT40-ER16-160	40	ER16(0.5-10)	160	46	28	28	85	27	M12	225.4	1.6
640.0402.040	BT40-ER16-200	40	ER16(0.5-10)	200	46	28	28	85	27	M12	265.4	1.8
698.0001.225	BT50-ER16-100	50	ER16(0.5-10)	100	-	28	28	-	27	M12	201.8	3.9
698.0002.225	BT50-ER16-160	50	ER16(0.5-10)	160	78	28	28	85	27	M12	261.8	4.2
640.0403.040	BT50-ER16-200	50	ER16(0.5-10)	200	78	28	28	85	27	M12	301.8	4.4

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use:For clamping tools with straight shank according to DIN 1835 type A, B and E and DIN 6535 type HA, HB and HE.

Standard Specification:Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws.Other designs and sizes are available on request.

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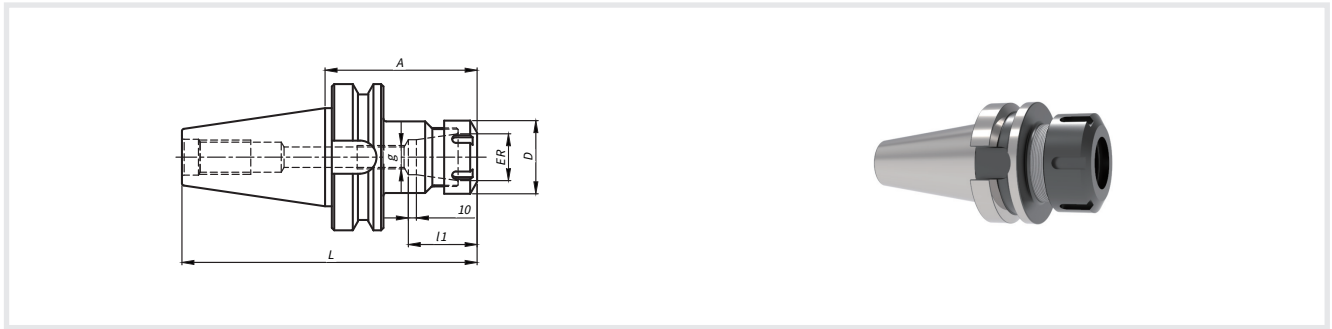
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ER/ESX 20/25/32/40弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks EXS 20/25/32/40 with internal thread



No.	Model	Size	ER	A	D	l1	g	L	kg
640.0001.041	BT30-ER20-50	30	ER20(1-13)	50	34	40	M12	98.4	0.6
640.0002.041	BT30-ER20-70	30	ER20(1-13)	70	34	40	M12	118.4	0.7
640.0003.041	BT30-ER20-100	30	ER20(1-13)	100	34	40	M12	148.4	0.9
640.0004.041	BT30-ER25-60	30	ER25(1-16)	60	42	43	M12	108.4	0.8
640.0005.041	BT30-ER25-80	30	ER25(1-16)	80	42	43	M12	128.4	1.0
640.0006.041	BT30-ER25-100	30	ER25(1-16)	100	42	43	M12	148.4	1.2
640.0007.041	BT30-ER32-70	30	ER32(2-20)	70	50	47	M12	118.4	1.1
640.0008.041	BT30-ER32-100	30	ER32(2-20)	100	50	47	M12	148.4	1.6
640.0009.041	BT40-ER20-70	40	ER20(1-13)	70	34	40	M12	135.4	1.3
640.0010.041	BT40-ER20-100	40	ER20(1-13)	100	34	40	M12	165.4	1.5
640.0011.041	BT40-ER20-120	40	ER20(1-13)	120	34	40	M12	185.4	1.6
640.0012.041	BT40-ER20-160	40	ER20(1-13)	160	34	40	M12	225.4	1.9
640.0013.040	BT40-ER20-200	40	ER20(1-13)	200	34	40	M12	265.4	2.2
640.0125.040	BT40-ER25-70	40	ER25(1-16)	70	42	43	M16	135.4	1.4
640.0015.041	BT40-ER25-100	40	ER25(1-16)	100	42	43	M16	165.4	1.8
640.0016.041	BT40-ER25-120	40	ER25(1-16)	120	42	43	M16	185.4	2.0
640.0017.041	BT40-ER25-160	40	ER25(1-16)	160	42	43	M16	225.4	2.4
640.0018.041	BT40-ER25-200	40	ER25(1-16)	200	42	43	M16	265.4	2.9
640.0019.041	BT40-ER32-70	40	ER32(2-20)	70	50	47	M16	135.4	1.6
640.0020.041	BT40-ER32-100	40	ER32(2-20)	100	50	47	M16	165.4	2.1
640.0021.041	BT40-ER32-120	40	ER32(2-20)	120	50	47	M16	185.4	2.4
640.0022.041	BT40-ER32-160	40	ER32(2-20)	160	50	47	M16	225.4	3.0
640.0023.041	BT40-ER32-200	40	ER32(2-20)	200	50	47	M16	265.4	3.6
640.0024.041	BT40-ER40-80	40	ER40(3-26)	80	63	53	M16	145.4	2.3
640.0025.041	BT40-ER40-120	40	ER40(3-26)	120	63	53	M16	185.4	3.2
640.0026.041	BT40-ER40-160	40	ER40(3-26)	160	63	53	M16	225.4	4.2
640.0027.041	BT40-ER40-200	40	ER40(3-26)	200	63	53	M16	265.4	5.2

No.	Model	Size	ER	A	D	l1	g	L	kg
640.0244.040	BT50-ER20-70	50	ER20(1-13)	70	34	40	M12	171.8	3.8
640.0029.041	BT50-ER20-100	50	ER20(1-13)	100	34	40	M12	201.8	4.0
640.0030.041	BT50-ER20-120	50	ER20(1-13)	120	34	40	M12	221.8	4.2
640.0031.041	BT50-ER20-160	50	ER20(1-13)	160	34	40	M12	261.8	4.5
640.0032.041	BT50-ER20-200	50	ER20(1-13)	200	34	40	M12	301.8	4.7
640.0246.040	BT50-ER25-70	50	ER25(1-16)	70	42	43	M16	171.8	3.9
640.0034.041	BT50-ER25-100	50	ER25(1-16)	100	42	43	M16	201.8	4.3
640.0035.041	BT50-ER25-120	50	ER25(1-16)	120	42	43	M16	221.8	4.5
640.0036.041	BT50-ER25-160	50	ER25(1-16)	160	42	43	M16	261.8	4.9
640.0037.041	BT50-ER25-200	50	ER25(1-16)	200	42	43	M16	301.8	5.4
697.0001.225	BT50-ER32-70	50	ER32(2-20)	70	50	47	M16	171.8	4.1
640.0039.041	BT50-ER32-100	50	ER32(2-20)	100	50	47	M16	201.8	4.5
640.0040.041	BT50-ER32-120	50	ER32(2-20)	120	50	47	M16	221.8	4.9
640.0041.041	BT50-ER32-160	50	ER32(2-20)	160	50	47	M16	261.8	5.5
640.0043.041	BT50-ER32-200	50	ER32(2-20)	200	50	47	M16	301.8	6.1
697.0423.225	BT50-ER40-100	50	ER40(3-26)	100	63	53	M16	201.8	5.1
640.0044.041	BT50-ER40-120	50	ER40(3-26)	120	63	53	M16	221.8	5.6
640.0045.041	BT50-ER40-160	50	ER40(3-26)	160	63	53	M16	261.8	6.6
640.0046.041	BT50-ER40-200	50	ER40(3-26)	200	63	53	M16	301.8	7.6
640.0047.041	BT60-ER25-100	60	ER25(1-16)	100	42	43	M16	261.8	13.5
640.0048.041	BT60-ER25-160	60	ER25(1-16)	160	42	43	M16	321.8	14.2
640.0049.041	BT60-ER25-200	60	ER25(1-16)	200	42	43	M16	361.8	14.6
640.0050.041	BT60-ER32-100	60	ER32(2-20)	100	50	47	M16	261.8	13.8
640.0051.041	BT60-ER32-160	60	ER32(2-20)	160	50	47	M16	321.8	14.7
640.0052.041	BT60-ER32-200	60	ER32(2-20)	200	50	47	M16	361.8	15.3
640.0053.041	BT60-ER40-100	60	ER40(3-26)	100	63	53	M16	261.8	14.2
640.0054.041	BT60-ER40-160	60	ER40(3-26)	160	63	53	M16	321.8	15.7
640.0055.041	BT60-ER40-200	60	ER40(3-26)	200	63	53	M16	361.8	16.7

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, B and E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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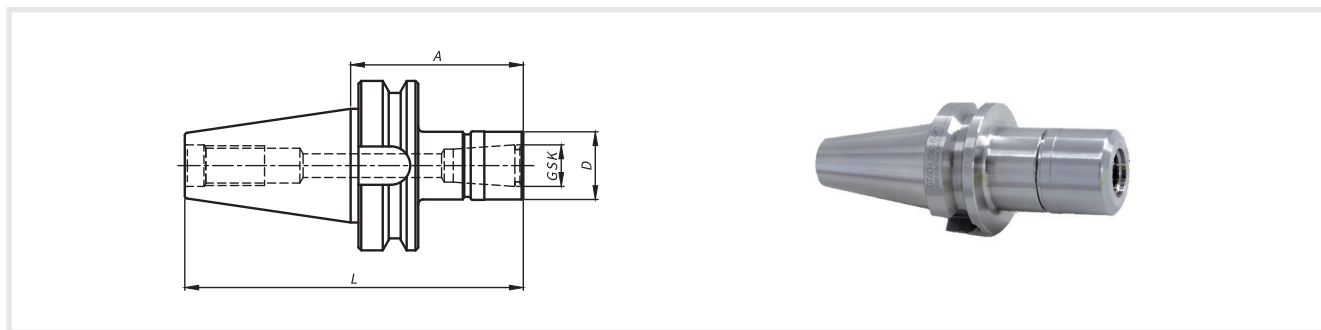
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GSK高精度弹簧夹头刀柄

Collet Chucks GSK6/10/13/16/20/25



No.	Model	Size	GSK	A	D	L	Kg
440.0210.042	BT30-GSK6-60	30	GSK6 (3-6)	60	19.5	108.4	0.5
440.0211.042	BT30-GSK6-90	30	GSK6 (3-6)	90	19.5	138.4	0.5
440.0212.042	BT30-GSK10-60	30	GSK10 (2-10)	60	27.5	108.4	0.5
440.0213.042	BT30-GSK10-90	30	GSK10 (2-10)	90	27.5	138.4	0.7
440.0214.042	BT30-GSK10-120	30	GSK10 (2-10)	120	27.5	168.4	0.8
440.0215.042	BT30-GSK13-70	30	GSK13 (3-13)	70	35	118.4	0.7
440.0216.042	BT30-GSK13-90	30	GSK13 (3-13)	90	35	138.4	0.9
440.0217.042	BT30-GSK13-120	30	GSK13 (3-13)	120	35	168.4	1.1
440.0218.042	BT30-GSK16-70	30	GSK16 (3-16)	70	40	118.4	0.8
440.0219.042	BT30-GSK16-90	30	GSK16 (3-16)	90	40	138.4	1.0
440.0220.042	BT30-GSK16-120	30	GSK16 (3-16)	120	40	168.4	1.3
440.0221.042	BT30-GSK20-70	30	GSK20 (4-20)	70	48	118.4	1.0
440.0222.042	BT30-GSK20-90	30	GSK20 (4-20)	90	48	138.4	1.3
440.0223.042	BT30-GSK20-120	30	GSK20 (4-20)	120	48	168.4	1.6
440.0224.042	BT30-GSK25-80	30	GSK25 (3-25)	80	55	128.4	1.4
440.0225.042	BT30-GSK25-100	30	GSK25 (3-25)	100	55	148.4	1.7
440.0226.042	BT30-GSK25-120	30	GSK25 (3-25)	120	55	168.4	2.0
440.0025.042	BT40-GSK6-63	40	GSK6 (3-6)	63	19.5	128.4	1.0
440.0026.042	BT40-GSK6-100	40	GSK6 (3-6)	100	19.5	165.4	1.1
440.0027.042	BT40-GSK10-63	40	GSK10 (2-10)	63	27.5	128.4	1.1
440.0028.042	BT40-GSK10-100	40	GSK10 (2-10)	100	27.5	165.4	1.3
440.0029.042	BT40-GSK10-160	40	GSK10 (2-10)	160	27.5	225.4	1.5
440.0176.042	BT40-GSK13-70	40	GSK13 (3-13)	70	35	135.4	1.3
440.0177.042	BT40-GSK13-100	40	GSK13 (3-13)	100	35	165.4	1.5
440.0178.042	BT40-GSK13-160	40	GSK13 (3-13)	160	35	225.4	1.9
440.0030.042	BT40-GSK16-70	40	GSK16 (3-16)	70	40	135.4	1.4
440.0031.042	BT40-GSK16-100	40	GSK16 (3-16)	100	40	165.4	1.6
440.0032.042	BT40-GSK16-160	40	GSK16 (3-16)	160	40	225.4	2.2
440.0033.042	BT40-GSK20-70	40	GSK20 (4-20)	70	48	135.4	1.5
440.0034.042	BT40-GSK20-100	40	GSK20 (4-20)	100	48	165.4	1.9
440.0035.042	BT40-GSK20-160	40	GSK20 (4-20)	160	48	225.4	2.7

No.	Model	Size	GSK	A	D	L	Kg
440.0036.042	BT40-GSK25-80	40	GSK25 (3-25)	80	55	145.4	1.9
440.0037.042	BT40-GSK25-120	40	GSK25 (3-25)	120	55	185.4	2.5
440.0038.042	BT40-GSK25-160	40	GSK25 (3-25)	160	55	225.4	3.2
440.0039.042	BT50-GSK10-100	50	GSK10 (2-10)	100	27.5	201.8	3.9
440.0040.042	BT50-GSK10-160	50	GSK10 (2-10)	160	27.5	261.8	4.1
440.0180.042	BT50-GSK13-100	50	GSK13 (3-13)	100	35	201.8	4.0
440.0181.042	BT50-GSK13-160	50	GSK13 (3-13)	160	35	261.8	4.4
440.0042.042	BT50-GSK16-100	50	GSK16 (3-16)	100	40	201.8	4.1
440.0043.042	BT50-GSK16-160	50	GSK16 (3-16)	160	40	261.8	4.7
440.0045.042	BT50-GSK20-100	50	GSK20 (4-20)	100	48	201.8	4.4
440.0046.042	BT50-GSK20-160	50	GSK20 (4-20)	160	48	261.8	5.2
440.0048.042	BT50-GSK25-120	50	GSK25 (3-25)	120	55	221.8	5.0
440.0049.042	BT50-GSK25-160	50	GSK25 (3-25)	160	55	261.8	5.6

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:括号中数字仅表示夹持刀具柄部尺寸范围,不体现在产品型号中。其他的设计和尺寸也可根据要求提供。

Use:For clamping tools with straight shank according to DIN 1835 type A, B and E and DIN 6535 type HA, HB and HE.

Standard Specification:Collet chuck including clamping nut.

Note:Collet chucks are equipped with internal thread for adjusting screws.Other designs and sizes are available on request.

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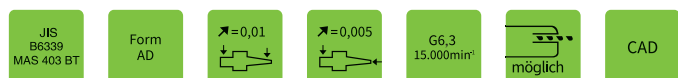
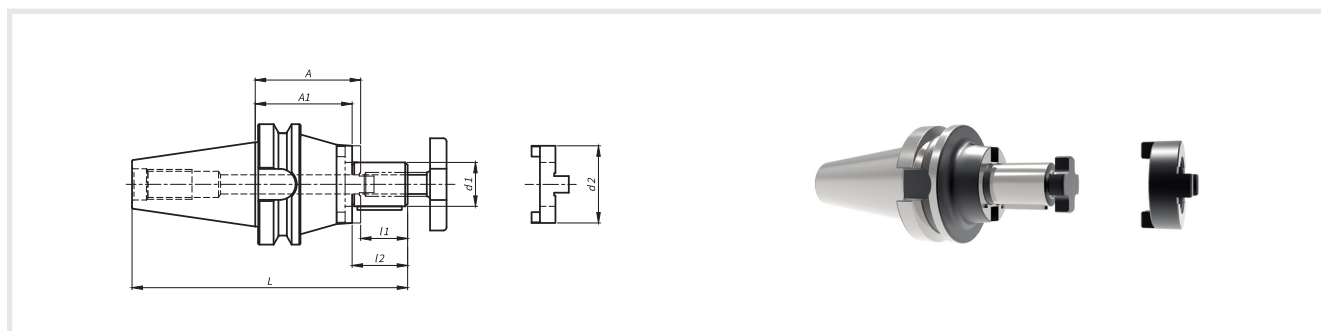
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套式铣刀柄(带平键和传动环)

Shell End Mill Arbors



No.	Model	Size	d1	A	A1	d2	l3	l4	L	kg
489.6011.285	BT30-SEMC16-55	30	16	55	45	32	17	27	120.4	0.6
489.6012.285	BT30-SEMC22-55	30	22	55	43	40	19	31	122.4	0.7
489.6013.285	BT30-SEMC27-55	30	27	55	43	48	21	33	124.4	0.8
489.0011.265	BT40-SEMC16-55	40	16	55	45	32	17	27	137.4	1.1
489.0012.265	BT40-SEMC22-55	40	22	55	43	40	19	31	139.4	1.2
489.0013.265	BT40-SEMC27-55	40	27	55	43	48	21	33	141.4	1.3
489.0004.265	BT40-SEMC32-60	40	32	60	46	58	24	38	149.4	1.6
489.0005.265	BT40-SEMC40-60	40	40	60	46	70	27	41	152.4	1.9
489.0011.225	BT50-SEMC16-70	50	16	70	60	32	17	27	188.8	3.8
489.0012.225	BT50-SEMC22-70	50	22	70	58	40	19	31	190.8	3.9
489.0013.225	BT50-SEMC27-70	50	27	70	58	48	21	33	192.8	4.0
489.0014.225	BT50-SEMC32-70	50	32	70	56	58	24	38	195.8	4.2
489.0015.225	BT50-SEMC40-70	50	40	70	56	70	27	41	198.8	4.5
489.0016.225	BT50-SEMC50-70	50	50	70	54	90	30	46	201.8	5.1

规格型号:用于夹持轴向平键或端面键驱动的面铣刀。

Use: For clamping shell end mills and milling cutters with longitudinal slot or tenon drive.

设计:带有中心冷却功能,传动环符合DIN 138。

Design: Central boring for coolant supply. Cutter drive according to DIN 138.

出厂标准产品包括紧固螺钉、带有螺孔的平键和传动环等。

Standard Specification: Cutter retaining screw, feather key with withdrawal thread and drive ring included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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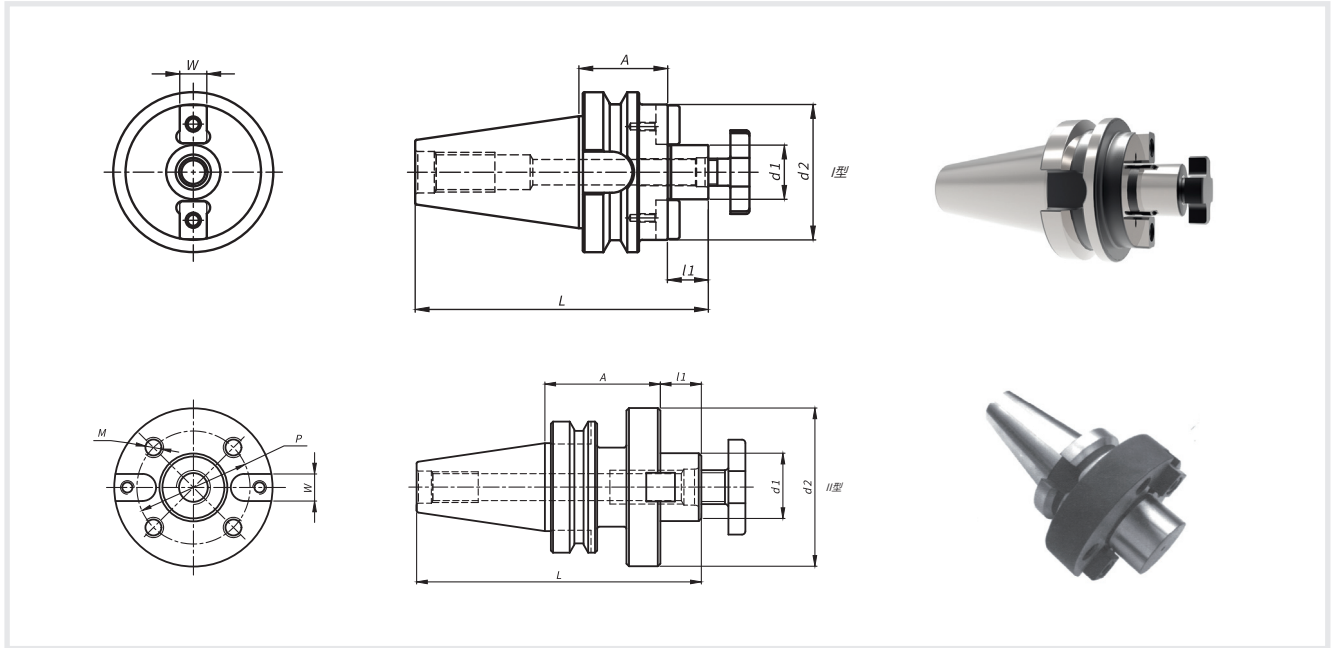
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端铣刀柄

Shell End Mill Arbors with enlarged contact diameter



No.	Model	Size	d1	A	d2	l1	L	P	M	W	Screw	Plate	kg
540.0108.004	BT30-FMB16-45	30	16	45	40	17	110.4	-	-	8	M8(SW6)	—	0.6
540.0101.004	BT30-FMB22-45	30	22	45	50	19	112.4	-	-	10	M10(SW8)	—	0.8
540.0102.004	BT30-FMB22-90	30	22	90	50	19	157.4	-	-	10	M10(SW8)	—	1.5
540.0103.004	BT30-FMB27-45	30	27	45	60	21	114.4	-	-	12	M12(SW10)	R-D27	1.0
540.0104.004	BT30-FMB27-90	30	27	90	60	21	159.4	-	-	12	M12(SW10)	R-D27	2.0
540.0109.004	BT40-FMB16-35	40	16	35	40	17	117.4	-	-	8	M8(SW6)	—	1.1
540.0110.004	BT40-FMB16-60	40	16	60	40	17	142.4	-	-	8	M8(SW6)	—	1.3
540.0111.004	BT40-FMB16-90	40	16	90	40	17	172.4	-	-	8	M8(SW6)	—	1.6
540.0112.004	BT40-FMB16-150	40	16	150	40	17	232.4	-	-	8	M8(SW6)	—	2.2
579.0001.265	BT40-FMB22-35	40	22	35	50	19	119.4	-	-	10	M10(SW8)	—	1.2
540.0002.004	BT40-FMB22-90	40	22	90	50	19	174.4	-	-	10	M10(SW8)	—	2.0
540.0113.004	BT40-FMB22-150	40	22	150	50	19	234.4	-	-	10	M10(SW8)	—	2.9
540.0114.004	BT40-FMB22-200	40	22	200	50	19	284.4	-	-	10	M10(SW8)	—	3.7
579.0002.265	BT40-FMB27-35	40	27	35	60	21	121.4	-	-	12	M12(SW10)	R-D27	1.2
540.0004.004	BT40-FMB27-90	40	27	90	60	21	176.4	-	-	12	M12(SW10)	R-D27	2.5
540.0115.004	BT40-FMB27-150	40	27	150	60	21	236.4	-	-	12	M12(SW10)	R-D27	3.8
540.0116.004	BT40-FMB27-200	40	27	200	60	21	286.4	-	-	12	M12(SW10)	R-D27	4.9
579.0003.265	BT40-FMB32-50	40	32	50	80	24	139.4	-	-	14	M16(SW14)	R-D32	2.0
540.0006.004	BT40-FMB32-90	40	32	90	80	24	179.4	-	-	14	M16(SW14)	R-D32	3.6
540.0117.004	BT40-FMB32-150	40	32	150	80	24	239.4	-	-	14	M16(SW14)	R-D32	6.0
540.0007.004	BT40-FMC40-60	40	40	60	90	27	152.4	66.7	M12	16	M20(SW17)	R-D40	2.9
540.0118.004	BT40-FMC40-100	40	40	100	90	27	192.4	66.7	M12	16	M20(SW17)	R-D40	4.9

No.	Model	Size	d1	A	d2	l1	L	P	M	W	Screw	Plate	kg
540.0119.004	BT50-FMB16-50	50	16	50	40	17	168.8	-	-	8	M8(SW6)	—	3.7
540.0120.004	BT50-FMB16-90	50	16	90	40	17	208.8	-	-	8	M8(SW6)	—	4.1
540.0121.004	BT50-FMB16-150	50	16	150	40	17	268.8	-	-	8	M8(SW6)	—	4.7
579.0001.225	BT50-FMB22-50	50	22	50	50	19	170.8	-	-	10	M10(SW8)	—	3.8
540.0088.004	BT50-FMB22-90	50	22	90	50	19	210.8	-	-	10	M10(SW8)	—	4.4
540.0010.004	BT50-FMB22-150	50	22	150	50	19	270.8	-	-	10	M10(SW8)	—	5.4
540.0122.004	BT50-FMB22-200	50	22	200	50	19	320.8	-	-	10	M10(SW8)	—	6.1
540.0123.004	BT50-FMB22-250	50	22	250	50	19	370.8	-	-	10	M10(SW8)	—	6.9
579.0002.225	BT50-FMB27-50	50	27	50	60	21	172.8	-	-	12	M12(SW10)	R-D27	4.0
540.0012.004	BT50-FMB27-90	50	27	90	60	21	212.8	-	-	12	M12(SW10)	R-D27	4.8
540.0013.004	BT50-FMB27-150	50	27	150	60	21	272.8	-	-	12	M12(SW10)	R-D27	6.2
540.0124.004	BT50-FMB27-200	50	27	200	60	21	322.8	-	-	12	M12(SW10)	R-D27	7.3
540.0125.004	BT50-FMB27-250	50	27	250	60	21	372.8	-	-	12	M12(SW10)	R-D27	8.4
579.0003.225	BT50-FMB32-50	50	32	50	80	24	175.8	-	-	14	M16(SW14)	R-D32	4.2
540.0015.004	BT50-FMB32-120	50	32	120	80	24	245.8	-	-	14	M16(SW14)	R-D32	7.0
540.0126.004	BT50-FMB32-200	50	32	200	80	24	325.8	-	-	14	M16(SW14)	R-D32	10.1
540.0016.004	BT50-FMC40-75	50	40	75	90	27	203.8	66.7	M12	16	M20(SW17)	R-D40	5.7
540.0017.004	BT50-FMC40-105	50	40	105	90	27	233.8	66.7	M12	16	M20(SW17)	R-D40	7.2
540.0018.004	BT50-FMC60-75	50	60	75	129	40	216.8	101.6	M16	25.4	—	—	9.0
540.0019.004	BT60-FMC40-75	60	40	75	90	27	263.8	66.7	M12	16	M20(SW17)	R-D40	14.6
540.0020.004	BT60-FMC60-75	60	60	75	140	40	276.8	101.6	M16	25.4	—	—	17.1
540.0021.004	BT60-FMD60-75	60	60	75	220	40	276.8	101.6+177.8	M16+M20	25.4	—	—	21.9

使用方向:用于夹持带有端面键槽的面铣刀。

Use For:clamping shell end mills and milling cutters with tenon drive.

设计:带有中心冷却功能, $\phi 40$ 和 $\phi 60$ 规格需要4个或8个螺钉夹紧, 刀具和主轴的安装尺寸符合DIN 2079标准。

Design: Central boring for coolant supply.Clamping 40 and 60 with 4 threaded holes for holding cutters with tool holding according to DIN 2079.

出厂标准产品包括紧固螺钉和传动键。

Standard Specification: Cutter retaining screw and tightened drive keys included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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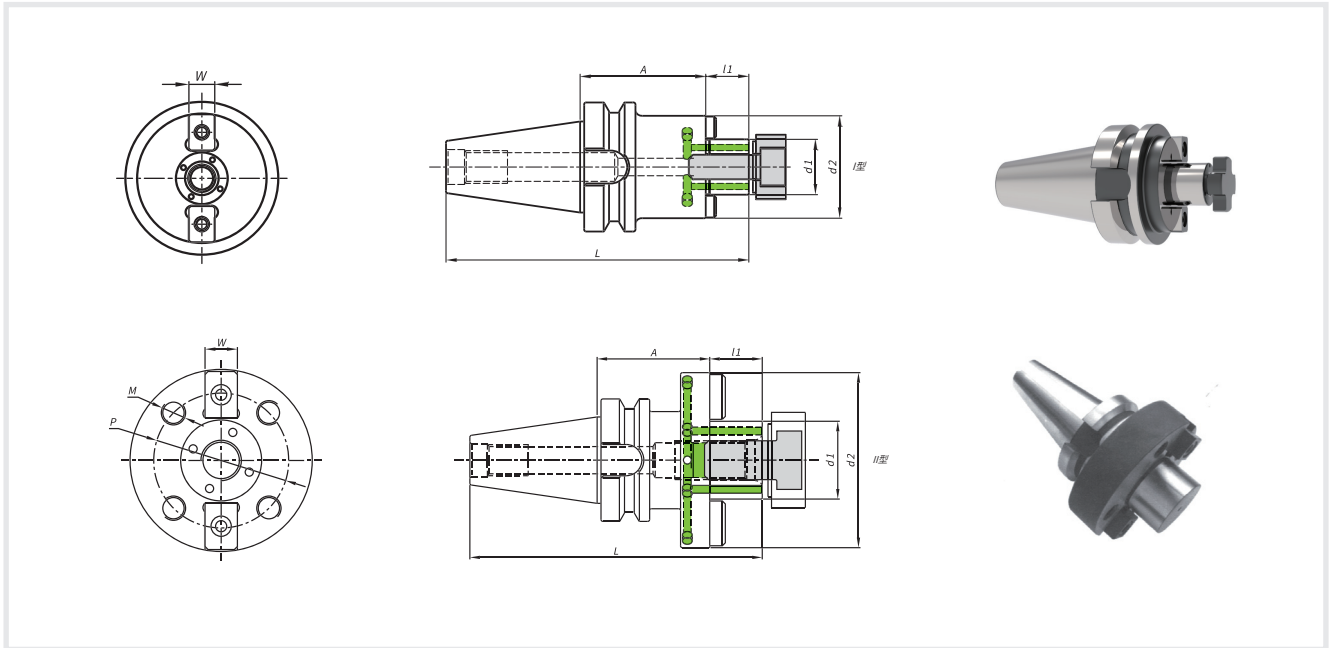
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端铣刀柄(带内冷)

Shell End Mill Arbors with coolant



No.	Model	Size	d1	A	d2	l1	L	P	M	W	Screw	Plate	kg
540.0105.004	BT30-FMB16-45C	30	16	45	40	17	110.4	-	-	8	M8(SW6)	—	0.6
540.0106.004	BT30-FMB22-45C	30	22	45	50	19	112.4	-	-	10	M10(SW8)	—	0.8
540.0107.004	BT30-FMB27-45C	30	27	45	60	21	114.4	-	-	12	M12(SW10)	R-D27	1.0
579.4005.265	BT40-FMB16-35C	40	16	35	40	17	117.4	-	-	8	M8(SW6)	—	1.1
540.0127.004	BT40-FMB16-60C	40	16	60	40	17	142.4	-	-	8	M8(SW6)	—	1.3
540.0128.004	BT40-FMB16-90C	40	16	90	40	17	172.4	-	-	8	M8(SW6)	—	1.6
540.0129.004	BT40-FMB16-150C	40	16	150	40	17	232.4	-	-	8	M8(SW6)	—	2.2
579.4001.265	BT40-FMB22-35C	40	22	35	50	19	119.4	-	-	10	M10(SW8)	—	1.2
540.0130.004	BT40-FMB22-90C	40	22	90	50	19	174.4	-	-	10	M10(SW8)	—	2.0
540.0131.004	BT40-FMB22-150C	40	22	150	50	19	234.4	-	-	10	M10(SW8)	—	2.9
540.0132.004	BT40-FMB22-200C	40	22	200	50	19	284.4	-	-	10	M10(SW8)	—	3.7
579.4002.265	BT40-FMB27-35C	40	27	35	60	21	121.4	-	-	12	M12(SW10)	R-D27	1.2
540.0133.004	BT40-FMB27-90C	40	27	90	60	21	176.4	-	-	12	M12(SW10)	R-D27	2.5
540.0134.004	BT40-FMB27-150C	40	27	150	60	21	236.4	-	-	12	M12(SW10)	R-D27	3.8
540.0135.004	BT40-FMB27-200C	40	27	200	60	21	286.4	-	-	12	M12(SW10)	R-D27	4.9
579.4003.265	BT40-FMB32-50C	40	32	50	80	24	139.4	-	-	14	M16(SW14)	R-D32	2.0
540.0136.004	BT40-FMB32-90C	40	32	90	80	24	179.4	-	-	14	M16(SW14)	R-D32	3.6
540.0137.004	BT40-FMB32-150C	40	32	150	80	24	239.4	-	-	14	M16(SW14)	R-D32	6.0
579.4004.265	BT40-FMC40-50C	40	40	50P	89	27	142.4	66.7	M12	16	M20(SW17)	R-D40	2.4
540.0138.004	BT40-FMC40-60C	40	40	60P	90	27	152.4	66.7	M12	16	M20(SW17)	R-D40	2.9
540.0139.004	BT40-FMC40-100C	40	40	100P	90	27	192.4	66.7	M12	16	M20(SW17)	R-D40	4.9

No.	Model	Size	d1	A	d2	l1	L	P	M	W	Screw	Plate	kg
540.0140.004	BT50-FMB16-50C	50	16	50	40	17	168.8	-	-	8	M8(SW6)	—	3.7
540.0141.004	BT50-FMB16-90C	50	16	90	40	17	208.8	-	-	8	M8(SW6)	—	4.1
540.0142.004	BT50-FMB16-150C	50	16	150	40	17	268.8	-	-	8	M8(SW6)	—	4.7
579.7001.225	BT50-FMB22-50C	50	22	50	50	19	170.8	-	-	10	M10(SW8)	—	3.8
540.0143.004	BT50-FMB22-90C	50	22	90	50	19	210.8	-	-	10	M10(SW8)	—	4.4
540.0144.004	BT50-FMB22-150C	50	22	150	50	19	270.8	-	-	10	M10(SW8)	—	5.4
540.0145.004	BT50-FMB22-200C	50	22	200	50	19	320.8	-	-	10	M10(SW8)	—	6.1
540.0146.004	BT50-FMB22-250C	50	22	250	50	19	370.8	-	-	10	M10(SW8)	—	6.9
579.7002.225	BT50-FMB27-50C	50	27	50	60	21	172.8	-	-	12	M12(SW10)	R-D27	4.0
540.0147.004	BT50-FMB27-90C	50	27	90	60	21	212.8	-	-	12	M12(SW10)	R-D27	4.8
540.0148.004	BT50-FMB27-150C	50	27	150	60	21	272.8	-	-	12	M12(SW10)	R-D27	6.2
540.0149.004	BT50-FMB27-200C	50	27	200	60	21	322.8	-	-	12	M12(SW10)	R-D27	7.3
540.0150.004	BT50-FMB27-250C	50	27	250	60	21	372.8	-	-	12	M12(SW10)	R-D27	8.4
579.7003.225	BT50-FMB32-50C	50	32	50	80	24	175.8	-	-	14	M16(SW14)	R-D32	4.2
540.0151.004	BT50-FMB32-120C	50	32	120	80	24	245.8	-	-	14	M16(SW14)	R-D32	7.0
540.0152.004	BT50-FMB32-200C	50	32	200	80	24	325.8	-	-	14	M16(SW14)	R-D32	10.1
540.0153.004	BT50-FMC40-55C	50	40	55P	90	27	183.8	66.7	M12	16	M20(SW17)	R-D40	4.7
540.0154.004	BT50-FMC40-105C	50	40	105P	90	27	233.8	66.7	M12	16	M20(SW17)	R-D40	7.2
540.0155.004	BT50-FMC60-75C	50	60	75P	140	40	216.8	101.6	M16	25.4	M20(SW17)	—	9.0

使用方向:用于夹持带有端面键槽的面铣刀。

Use For:clamping shell end mills and milling cutters with tenon drive.

设计:带有中心冷却功能, $\phi 40$ 和 $\phi 60$ 规格需要4个或8个螺钉夹紧, 刀具和主轴的安装尺寸符合DIN 2079标准。

Design: Central boring for coolant supply.Clamping 40 and 60 with 4 threaded holes for holding cutters with tool holding according to DIN 2079.

出厂标准产品包括紧固螺钉和传动键。

Standard Specification: Cutter retaining screw and tightened drive keys included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES

配件

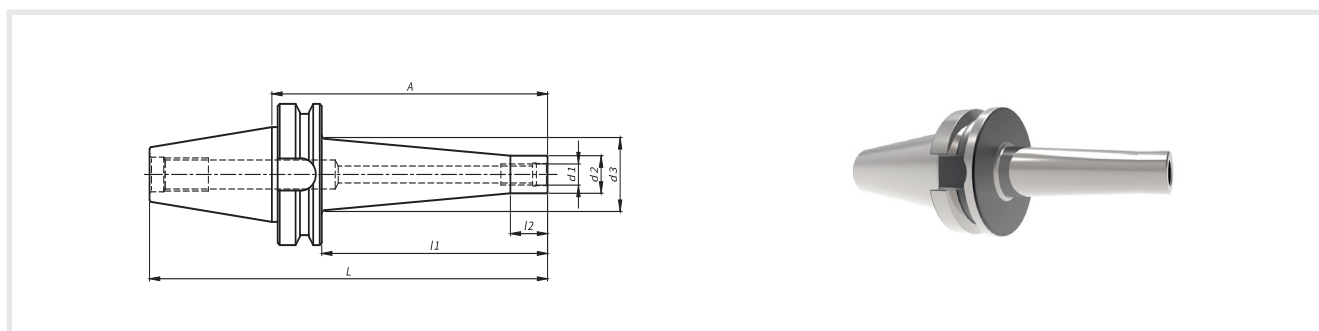


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KFS模块式铣刀柄

Holders for screw-in milling cutters



No.	Model	Size	d1	A	d2	d3	l1	l2	L	kg
571.0001.265	BT40-KFS8-52	40	M8	52	12.8	15	25.0	12	117.4	1.0
571.0011.265	BT40-KFS8-77	40	M8	77	12.8	23	50.0	12	142.4	1.0
571.0021.265	BT40-KFS8-102	40	M8	102	12.8	23	75.0	12	167.4	1.0
571.0002.265	BT40-KFS10-52	40	M10	52	17.8	20	25.0	12	117.4	1.0
571.0012.265	BT40-KFS10-77	40	M10	77	17.8	25	50.0	12	142.4	1.1
571.0022.265	BT40-KFS10-102	40	M10	102	17.8	25	75.0	12	167.4	1.1
571.0032.265	BT40-KFS10-127	40	M10	127	17.8	32	100.0	12	192.4	1.2
571.0042.265	BT40-KFS10-177	40	M10	177	17.8	35	150.0	12	242.4	1.3
571.0003.265	BT40-KFS12-52	40	M12	52	20.8	24	25.0	12	117.4	1.0
571.0013.265	BT40-KFS12-77	40	M12	77	20.8	28	50.0	12	142.4	1.1
571.0023.265	BT40-KFS12-102	40	M12	102	20.8	31	75.0	12	167.4	1.2
571.0033.265	BT40-KFS12-127	40	M12	127	20.8	33	100.0	12	192.4	1.2
571.0043.265	BT40-KFS12-177	40	M12	177	20.8	40	150.0	12	242.4	1.4
571.0004.265	BT40-KFS16-52	40	M16	52	28.8	-	25.0	-	117.4	1.1
571.0014.265	BT40-KFS16-77	40	M16	77	28.8	34	50.0	12	142.4	1.2
571.0024.265	BT40-KFS16-102	40	M16	102	28.8	34	75.0	12	167.4	1.4
571.0034.265	BT40-KFS16-127	40	M16	127	28.8	36	100.0	12	192.4	1.5
571.0044.265	BT40-KFS16-177	40	M16	177	28.8	42	150.0	12	242.4	1.7
571.0011.225	BT50-KFS8-88	50	M8	88	12.8	23	50.0	12	189.8	3.6
571.0012.225	BT50-KFS10-88	50	M10	88	17.8	25	50.0	12	189.8	3.7
571.0022.225	BT50-KFS10-113	50	M10	113	17.8	25	75.0	12	214.8	3.7
571.0032.225	BT50-KFS10-138	50	M10	138	17.8	32	100.0	12	239.8	3.8
571.0042.225	BT50-KFS10-188	50	M10	188	17.8	35	150.0	12	289.8	3.9
571.0013.225	BT50-KFS12-88	50	M12	88	20.8	28	50.0	12	189.8	3.7
571.0023.225	BT50-KFS12-113	50	M12	113	20.8	31	75.0	12	214.8	3.8
571.0033.225	BT50-KFS12-138	50	M12	138	20.8	33	100.0	12	239.8	3.9
571.0043.225	BT50-KFS12-188	50	M12	188	20.8	40	150.0	12	289.8	4.0
571.0014.225	BT50-KFS16-88	50	M16	88	28.8	34	50.0	12	189.8	3.8
571.0024.225	BT50-KFS16-113	50	M16	113	28.8	34	75.0	12	214.8	4.0
571.0034.225	BT50-KFS16-138	50	M16	138	28.8	36	100.0	12	239.8	4.1
571.0044.225	BT50-KFS16-188	50	M16	188	28.8	42	150.0	12	289.8	4.4

使用方向:用于夹紧以螺纹连接的铣刀。

Use:For holding the milling tools with thread.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

配件

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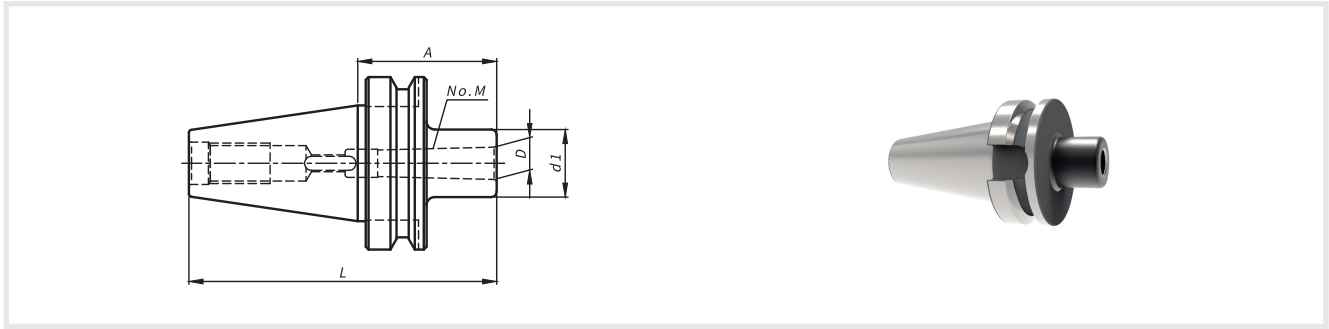
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带扁尾莫氏圆锥孔刀柄

Reduction Sleeves for morse taper with tang



No.	Model	Size	M	D	A	d1	L	kg
440.0060.050	BT30-M1-50	30	1	12.065	50	25	98.4	0.5
440.0061.050	BT30-M1-100	30	1	12.065	100	25	148.4	0.7
440.0062.050	BT30-M2-60	30	2	17.78	60	32	108.4	0.6
440.0063.050	BT30-M2-110	30	2	17.78	110	32	158.4	0.9
440.0064.050	BT30-M3-80	30	3	23.825	80	40	128.4	0.9
454.0001.265	BT40-M1-50	40	1	12.065	50	25	115.4	1.0
440.0028.050	BT40-M1-120	40	1	12.065	120	25	185.4	1.3
454.0012.265	BT40-M2-50	40	2	17.78	50	32	115.4	1.1
440.0030.050	BT40-M2-120	40	2	17.78	120	32	185.4	1.5
454.0013.265	BT40-M3-70	40	3	23.825	70	40	135.4	1.4
440.0032.050	BT40-M3-135	40	3	23.825	135	40	200.4	1.9
454.0014.265	BT40-M4-95	40	4	31.267	95	63	160.4	2.5
440.0034.050	BT40-M4-165	40	4	31.267	165	63	230.4	4.0
454.0011.225	BT50-M1-45	50	1	12.065	45	25	146.8	3.6
440.0036.050	BT50-M1-120	50	1	12.065	120	25	221.8	3.9
454.0002.225	BT50-M2-60	50	2	17.78	60	32	161.8	3.7
440.0038.050	BT50-M2-135	50	2	17.78	135	32	236.8	4.1
454.0013.225	BT50-M3-65	50	3	23.825	65	40	166.8	3.8
440.0040.050	BT50-M3-150	50	3	23.825	150	40	251.8	4.6
454.0014.225	BT50-M4-95	50	4	31.267	95	48	196.8	4.3
440.0042.050	BT50-M4-180	50	4	31.267	180	48	281.8	5.4
454.0005.225	BT50-M5-105	50	5	44.399	105	63	206.8	5.1
440.0044.050	BT50-M5-210	50	5	44.399	210	63	311.8	7.4

No.	Model	Size	M	D	A	d1	L	kg
440.0045.050	BT60-M3-190	60	3	23.825	190	40	351.8	14.2
440.0046.050	BT60-M3-250	60	3	23.825	250	40	411.8	14.8
440.0047.050	BT60-M4-210	60	4	31.267	210	50	371.8	15.2
440.0048.050	BT60-M4-270	60	4	31.267	270	50	431.8	16.0
440.0049.050	BT60-M5-240	60	5	44.399	240	63	401.8	17.2
440.0050.050	BT60-M5-300	60	5	44.399	300	63	461.8	18.5
440.0051.050	BT60-M6-170	60	6	63.348	170	90	331.8	18.4
440.0052.050	BT60-M6-310	60	6	63.348	310	90	471.8	24.7

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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无扁尾莫氏圆锥孔刀柄

Reduction Sleeves for morse taper without thread



No.	Model	Size	MW	D	A	d1	g	L	kg
458.0001.265	BT40-MW1-50	40	1	12.065	50	25	M6	115.4	1.0
458.0012.265	BT40-MW2-50	40	2	17.78	50	32	M10	115.4	1.1
458.0013.265	BT40-MW3-70	40	3	23.825	70	40	M12	135.4	1.4
440.0024.055	BT40-MW4-95	40	4	31.267	95	63	M16	160.4	2.5
458.0011.225	BT50-MW1-45	50	1	12.065	45	25	M6	146.8	3.6
458.0022.225	BT50-MW2-60	50	2	17.78	60	32	M10	161.8	3.7
458.0023.225	BT50-MW3-65	50	3	23.825	65	40	M12	166.8	3.8
440.0030.055	BT50-MW4-70	50	4	31.267	70	63	M16	171.8	4.3
440.0028.055	BT50-MW4-100	50	4	31.267	100	63	M16	201.8	5.0
440.0031.055	BT50-MW5-100	50	5	44.399	100	78	M20	201.8	5.7
440.0029.055	BT50-MW5-130	50	5	44.399	130	78	M20	231.8	6.7
440.0032.055	BT60-MW3-100	60	3	23.825	100	40	M12	261.8	13.4
440.0033.055	BT60-MW4-100	60	4	31.267	100	63	M16	261.8	14.1
440.0034.055	BT60-MW5-100	60	5	44.399	100	78	M20	261.8	14.7
440.0035.055	BT60-MW6-150	60	6	63.348	150	90	M24	311.8	17.5

说明:包括紧固螺钉和螺纹挡环。

Standard Specification:Retaining screws and threaded rings are included.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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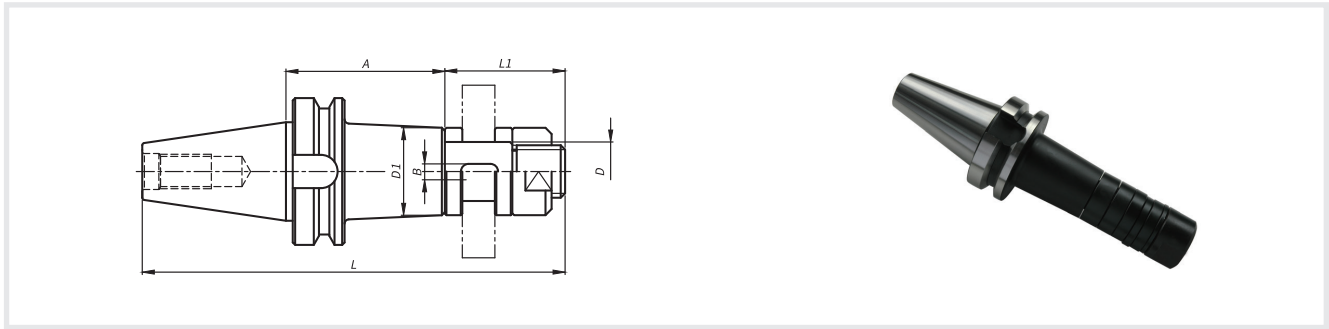
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三面刃铣刀柄
 Side milling Cutter Arbor


No.	Model	Size	D	D1	A	L1	L	B	Rings	kg
440.0021.000	BT40-SCA16-75	40	16	26	75	46	186.4	4	3J1-310-16	1.3
440.0022.000	BT40-SCA16-105	40	16	26	105	46	216.4	4	3J1-310-16	1.4
440.0023.000	BT40-SCA22-75	40	22	34	75	51	191.4	6	3J1-310-22	1.6
440.0024.000	BT40-SCA22-120	40	22	34	120	51	236.4	6	3J1-310-22	1.9
440.0025.000	BT40-SCA27-75	40	27	40	75	55	195.4	7	3J1-310-27	1.9
440.0026.000	BT40-SCA27-120	40	27	40	120	55	240.4	7	3J1-310-27	2.3
440.0027.000	BT40-SCA32-90	40	32	46	90	60	215.4	8	3J1-310-32	2.4
440.0028.000	BT50-SCA16-90	50	16	26	90	46	237.8	4	3J1-310-16	4.0
440.0029.000	BT50-SCA16-120	50	16	26	120	46	267.8	4	3J1-310-16	4.1
440.0030.000	BT50-SCA22-90	50	22	34	90	51	242.8	6	3J1-310-22	4.3
440.0031.000	BT50-SCA22-135	50	22	34	135	51	287.8	6	3J1-310-22	4.5
440.0032.000	BT50-SCA27-90	50	27	40	90	55	246.8	7	3J1-310-27	4.5
440.0033.000	BT50-SCA27-135	50	27	40	135	55	291.8	7	3J1-310-27	4.9
440.0034.000	BT50-SCA32-90	50	32	46	90	60	251.8	8	3J1-310-32	4.9
440.0035.000	BT50-SCA32-135	50	32	46	135	60	296.8	8	3J1-310-32	5.4
440.0036.000	BT50-SCA40-90	50	40	55	90	66	257.8	10	3J1-310-40	5.6
440.0037.000	BT50-SCA40-135	50	40	55	135	66	302.8	10	3J1-310-40	6.3
440.0092.000	BT50-SCA50-90	50	50	68	90	85	276.8	12	3J1-310-50	7.1
440.0093.000	BT50-SCA50-135	50	50	68	135	85	321.8	12	3J1-310-50	8.3
440.0038.000	BT60-SCA40-135	60	40	55	135	66	362.8	10	3J1-310-40	15.5
440.0039.000	BT60-SCA50-135	60	50	68	135	85	381.8	12	3J1-310-50	17.4
440.0040.000	BT60-SCA60-135	60	60	84	135	105	401.8	14	3J1-310-60	20.5

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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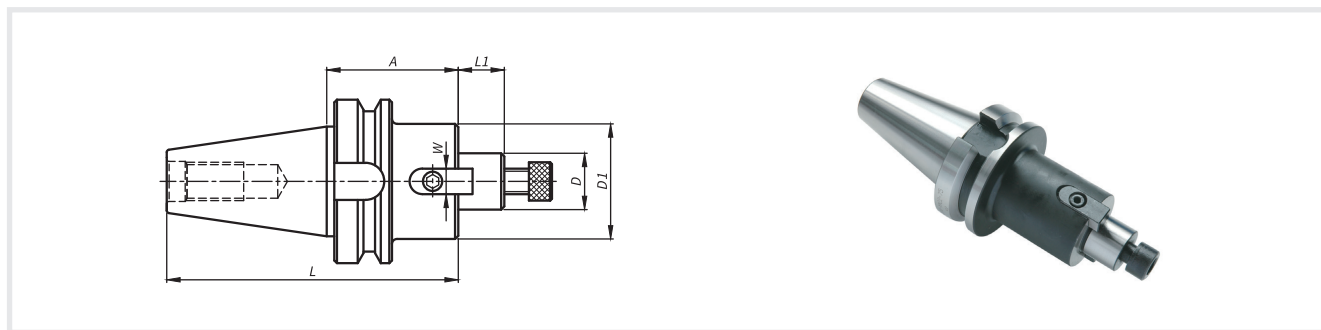
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套式立铣刀柄

Shell End Mill Arbors


 JIS
 B6339
 MAS 403 BT

 Form
 A

 $\nabla = 0,006$
 $\nabla = 0,005$

 G6,3
 8.000min²

CAD

No.	Model	Size	D	D1	A	L1	L	W	Screw	kg
440.0020.001	BT40-FMH16-75	40	16	32	75	17	157.4	8	M8	1.3
440.0021.001	BT40-FMH16-120	40	16	32	120	17	202.4	8	M8	1.6
440.0022.001	BT40-FMH22-75	40	22	40	75	19	159.4	10	M10	1.5
440.0023.001	BT40-FMH22-120	40	22	40	120	19	204.4	10	M10	1.9
440.0056.001	BT40-FMH22-160	40	22	40	160	19	244.4	10	M10	2.3
440.0057.001	BT40-FMH22-200	40	22	40	200	19	284.4	10	M10	2.7
440.0058.001	BT40-FMH22-250	40	22	40	250	19	334.4	10	M10	3.2
440.0024.001	BT40-FMH27-75	40	27	48	75	21	161.4	12	M12	1.7
440.0025.001	BT40-FMH27-105	40	27	48	105	21	191.4	12	M12	2.2
440.0059.001	BT40-FMH27-160	40	27	48	160	21	246.4	12	M12	3.0
440.0060.001	BT40-FMH27-200	40	27	48	200	21	286.4	12	M12	3.5
440.0061.001	BT40-FMH27-250	40	27	48	250	21	336.4	12	M12	4.2
440.0026.001	BT40-FMH32-75	40	32	58	75	24	164.4	14	M16	2.1
440.0062.001	BT40-FMH32-120	40	32	58	120	24	209.4	14	M16	3.1
440.0063.001	BT40-FMH32-160	40	32	58	160	24	249.4	14	M16	3.9
440.0064.001	BT40-FMH32-200	40	32	58	200	24	289.4	14	M16	4.7
440.0065.001	BT40-FMH32-250	40	32	58	250	24	339.4	14	M16	5.8
440.0027.001	BT50-FMH16-75	50	16	32	75	17	193.8	8	M8	3.9
440.0028.001	BT50-FMH16-120	50	16	32	120	17	238.8	8	M8	4.1
440.0029.001	BT50-FMH22-75	50	22	40	75	19	195.8	10	M10	4.0
440.0030.001	BT50-FMH22-120	50	22	40	120	19	240.8	10	M10	4.5
440.0066.001	BT50-FMH22-160	50	22	40	160	19	280.8	10	M10	4.9
440.0067.001	BT50-FMH22-200	50	22	40	200	19	320.8	10	M10	5.2
440.0068.001	BT50-FMH22-250	50	22	40	250	19	370.8	10	M10	5.7
440.0031.001	BT50-FMH27-75	50	27	48	75	21	197.8	12	M12	4.2
440.0032.001	BT50-FMH27-105	50	27	48	105	21	227.8	12	M12	4.6
440.0069.001	BT50-FMH27-120	50	27	48	120	21	242.8	12	M12	4.9
440.0070.001	BT50-FMH27-160	50	27	48	160	21	282.8	12	M12	5.4
440.0071.001	BT50-FMH27-200	50	27	48	200	21	322.8	12	M12	6.0
440.0072.001	BT50-FMH27-250	50	27	48	250	21	372.8	12	M12	6.7

No.	Model	Size	D	D1	A	L1	L	W	Screw	kg
440.0033.001	BT50-FMH32-75	50	32	58	75	24	200.8	14	M16	4.5
440.0073.001	BT50-FMH32-120	50	32	58	120	24	245.8	14	M16	5.4
440.0074.001	BT50-FMH32-160	50	32	58	160	24	285.8	14	M16	6.3
440.0075.001	BT50-FMH32-200	50	32	58	200	24	325.8	14	M16	7.1
440.0076.001	BT50-FMH32-250	50	32	58	250	24	375.8	14	M16	8.1
440.0034.001	BT50-FMH40-75	50	40	70	75	27	203.8	16	M20	5.0
440.0035.001	BT50-FMH50-75	50	50	90	75	30	206.8	18	M24	5.9
440.0036.001	BT60-FMH32-105	60	32	58	105	24	290.8	14	M16	14.3
440.0037.001	BT60-FMH40-105	60	40	70	105	27	293.8	16	M20	14.9
440.0038.001	BT60-FMH50-120	60	50	90	120	30	311.8	18	M24	17.0

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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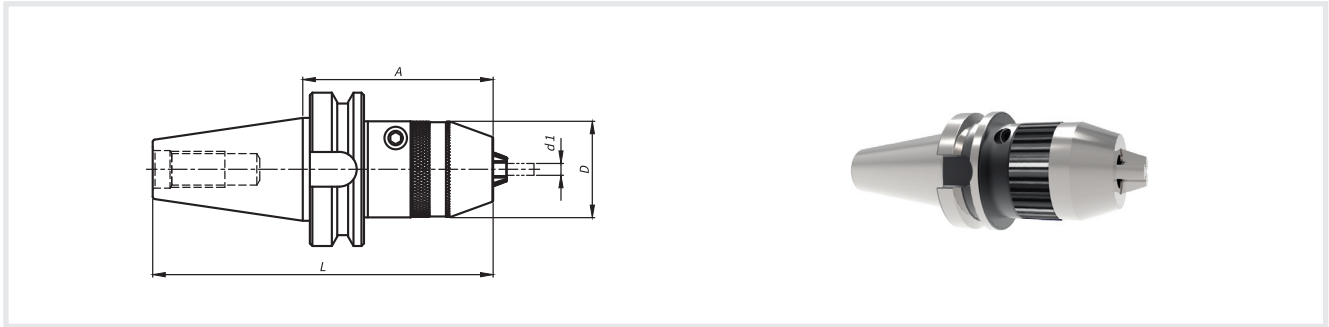
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整体式钻夹头刀柄

Integrated Drill Chuck Arbors whole


 JIS
 B6339
 MAS 403 BT

 Form
 A

No.	Model	Size	d1	A	D	L	kg
490.0010.265	BT40-KPU(1-16)-88	40	1-16	88	50	154	1.9
490.0010.225	BT50-KPU(1-16)-88	50	1-16	99	50	200.8	4.6

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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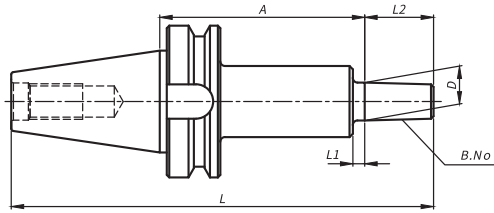
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钻夹头刀柄

Integrated Drill Chuck Arbors



No.	Model	Size	B.No	A	L1	L2	L	D	kg
440.0019.071	BT40-DCB10-45	40	B10	45	3.5	14.5	124.9	10.094	1.0
440.0020.071	BT40-DCB10-90	40	B10	90	3.5	14.5	169.9	10.094	1.0
440.0021.071	BT40-DCB12-45	40	B12	45	3.5	18.5	128.9	12.065	1.0
440.0022.071	BT40-DCB12-90	40	B12	90	3.5	18.5	173.9	12.065	1.0
440.0023.071	BT40-DCB16-45	40	B16	45	5	24	134.4	15.733	1.0
440.0024.071	BT40-DCB16-90	40	B16	90	5	24	179.4	15.733	1.1
440.0025.071	BT40-DCB18-45	40	B18	45	5	32	142.4	17.78	1.0
440.0026.071	BT40-DCB18-90	40	B18	90	5	32	187.4	17.78	1.1
440.0027.071	BT50-DCB10-45	50	B10	45	3.5	14.5	161.3	10.094	3.6
440.0028.071	BT50-DCB10-105	50	B10	105	3.5	14.5	221.3	10.094	3.6
440.0029.071	BT50-DCB12-45	50	B12	45	3.5	18.5	165.3	12.065	3.6
440.0030.071	BT50-DCB12-105	50	B12	105	3.5	18.5	225.3	12.065	3.7
440.0031.071	BT50-DCB16-45	50	B16	45	5	24	170.8	15.733	3.6
440.0032.071	BT50-DCB16-105	50	B16	105	5	24	230.8	15.733	3.7
440.0033.071	BT50-DCB18-45	50	B18	45	5	32	178.8	17.78	3.6
440.0034.071	BT50-DCB18-105	50	B18	105	5	32	238.8	17.78	3.7
440.0035.071	BT60-DCB16-105	60	B16	105	5	24	290.8	15.733	13.0
440.0036.071	BT60-DCB18-105	60	B18	105	5	32	298.8	17.78	13.1

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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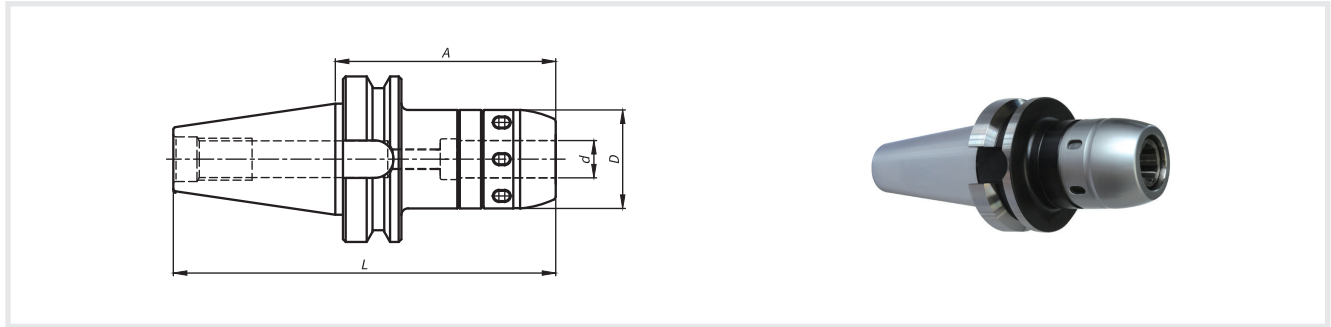
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强力铣夹头刀柄

Strong Chuck Holder For Boring and Milling



No.	Model	Size	d	A	L	D	Bans	kg
740.0219.111	BT30-SC20-90	30	20	90	138.4	58	55-62	1.8
740.0220.111	BT30-SC20-110	30	20	110	158.4	58	55-62	2.2
740.0218.111	BT30-SC25-105	30	25	105	153.4	65	68-72	2.6
740.0221.111	BT40-SC20-110	40	20	110	175.4	58	55-62	2.7
740.0222.111	BT40-SC20-160	40	20	160	225.4	58	55-62	3.7
740.0223.111	BT40-SC20-200	40	20	200	265.4	58	55-62	4.6
740.0224.111	BT40-SC25-110	40	25	110	175.4	65	68-72	3.1
740.0225.111	BT40-SC25-160	40	25	160	225.4	65	68-72	4.4
740.0226.111	BT40-SC25-200	40	25	200	265.4	65	68-72	5.5
740.0227.111	BT40-SC32-110	40	32	110	175.4	73	68-72	3.7
740.0228.111	BT40-SC32-160	40	32	160	225.4	73	68-72	5.3
740.0229.111	BT40-SC32-200	40	32	200	265.4	73	68-72	6.7
740.0230.111	BT50-SC20-110	50	20	110	211.8	58	55-62	5.1
740.0231.111	BT50-SC20-160	50	20	160	261.8	58	55-62	6.1
740.0232.111	BT50-SC20-200	50	20	200	301.8	58	55-62	7.0
740.0233.111	BT50-SC25-110	50	25	110	211.8	65	68-72	5.5
740.0234.111	BT50-SC25-160	50	25	160	261.8	65	68-72	6.8
740.0235.111	BT50-SC25-200	50	25	200	301.8	65	68-72	7.8
740.0236.111	BT50-SC32-110	50	32	110	211.8	73	68-72	6.0
740.0245.111	BT50-SC32-140	50	32	140	241.8	73	68-72	6.9
740.0237.111	BT50-SC32-160	50	32	160	261.8	73	68-72	7.6
740.0238.111	BT50-SC32-200	50	32	200	301.8	73	68-72	8.9
740.0239.111	BT50-SC40-120	50	40	120	221.8	88	78-85	7.5
740.0240.111	BT50-SC40-160	50	40	160	261.8	88	78-85	9.4
740.0241.111	BT50-SC40-200	50	40	200	301.8	88	78-85	11.3
740.0242.111	BT50-SC50-140	50	50	140	241.8	105	100-110	10.5
740.0243.111	BT50-SC50-160	50	50	160	261.8	105	100-110	11.9
740.0244.111	BT50-SC50-200	50	50	200	301.8	105	100-110	14.6

No.	Model	Size	d	A	L	D	Bans	kg
740.0261.111	BT60-SC20-130	60	20	130	291.8	58	55-62	14.7
740.0262.111	BT60-SC20-160	60	20	160	321.8	58	55-62	15.3
740.0263.111	BT60-SC20-200	60	20	200	361.8	58	55-62	16.1
740.0264.111	BT60-SC25-130	60	25	130	291.8	65	68-72	15.1
740.0265.111	BT60-SC25-160	60	25	160	321.8	65	68-72	15.9
740.0266.111	BT60-SC25-200	60	25	200	361.8	65	68-72	16.9
740.0267.111	BT60-SC32-130	60	32	130	291.8	73	68-72	15.7
740.0268.111	BT60-SC32-160	60	32	160	321.8	73	68-72	16.6
740.0269.111	BT60-SC32-200	60	32	200	361.8	73	68-72	18.0
740.0270.111	BT60-SC40-130	60	40	130	291.8	88	78-85	16.9
740.0271.111	BT60-SC40-160	60	40	160	321.8	88	78-85	18.3
740.0272.111	BT60-SC40-200	60	40	200	361.8	88	78-85	20.2
740.0273.111	BT60-SC50-140	60	50	140	301.8	105	100-110	19.2
740.0274.111	BT60-SC50-160	60	50	160	321.8	105	100-110	20.6
740.0275.111	BT60-SC50-200	60	50	200	361.8	105	100-110	23.3

注意:被夹持直柄刀具的柄部公差为H6,使用方向配用扳手加紧直柄刀具时,不允许使用方向其他额外工具。如果你需要扳手,请联系销售人员额外订购

注意:其他型号和尺寸可按订货要求制作。

Note:The clamping diameter is designed for a cemented carbide shank tolerance of h6.You not be allowed to use other auxiliary device when you use the clamping stright tools.If you need the clamping keys,you need order it additionally.

Other designs and sizes are available on request.

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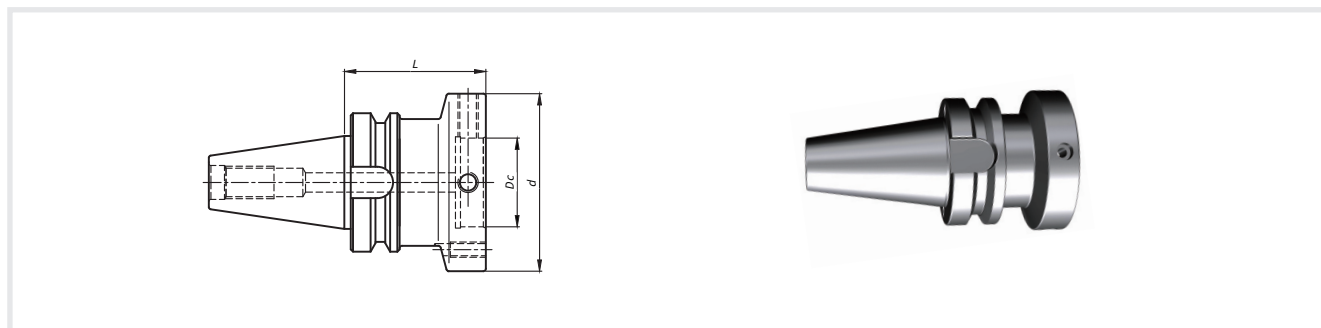
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可调式刀柄

Adjusting Clamping Tools



JIS
B6339
MAS 403 BT

Form
AD

No.	Model	Size	Dc	d	A	L	kg
440.0001.005	BT30-MOD60-40	30	30	60	40	88.4	0.8
440.0002.005	BT30-MOD70-40	30	35	70	40	88.4	1.6
440.0003.005	BT40-MOD60-55	40	30	60	55	120.4	2.3
440.0004.005	BT40-MOD70-55	40	35	70	55	120.4	2.7
440.0005.005	BT40-MOD80-65	40	40	80	65	130.4	3.8
440.0006.005	BT40-MOD100-70	40	50	100	70	135.4	5.7
440.0007.005	BT50-MOD60-70	50	30	60	70	171.8	5.3
440.0008.005	BT50-MOD70-70	50	35	70	70	171.8	5.9
440.0009.005	BT50-MOD80-70	50	40	80	70	171.8	6.5
440.0010.005	BT50-MOD100-70	50	50	100	70	171.8	8.2
440.0011.005	BT50-MOD117-80	50	60	117	80	181.8	11.2
440.0012.005	BT50-MOD140-80	50	80	140	80	181.8	15.8

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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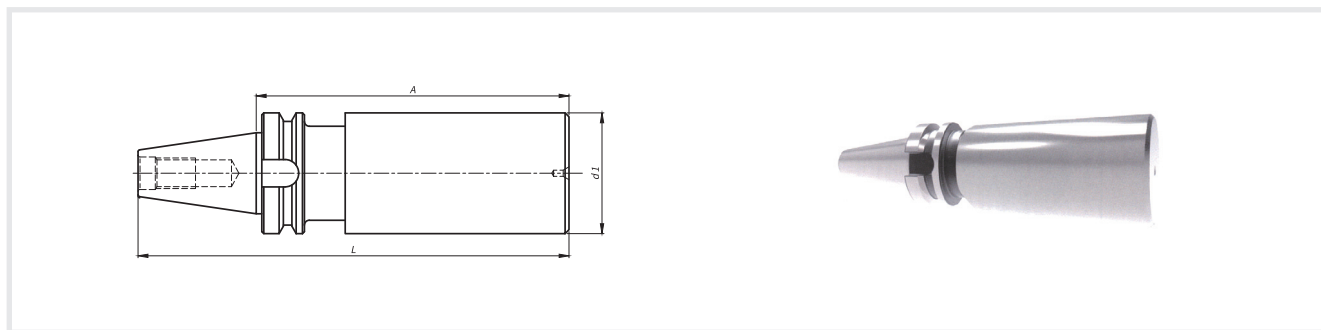
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毛坯刀柄(合金钢)

Tool Blanks with Alloy Steel

JIS
B6339
MAS 403 BTForm
A

No.	Model	Size	d1	A	L	kg
517.5001.285	BT30-BL45-150	30	45	150	198.4	2.0
517.5001.265	BT40-BL63-150	40	63	150	215.4	4.0
517.5002.265	BT40-BL63-250	40	63	250	315.4	6.4
517.5001.225	BT50-BL95-180	50	95	180	281.8	11.5
517.5002.225	BT50-BL95-315	50	95	315	416.8	19.0

使用方向:用于制造特殊刀具刀体及工具系统产品。

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2),淬硬层在0.5mm以上;刀具端硬度HRC38-43。

材料:合金钢

注意:其他型号和尺寸可按订货要求制作

Use: For own manufacture of special tools.

Design:The taper ls finished with grinding,the dimensions are in accordance with the standard of the handle,HV670±40 (approximately HRC58±2),the hardened layer is above 0.5mm. Tool partis HRC36-44.

Material:Aolly steel.

Note:Other designs and sizes are available on request.

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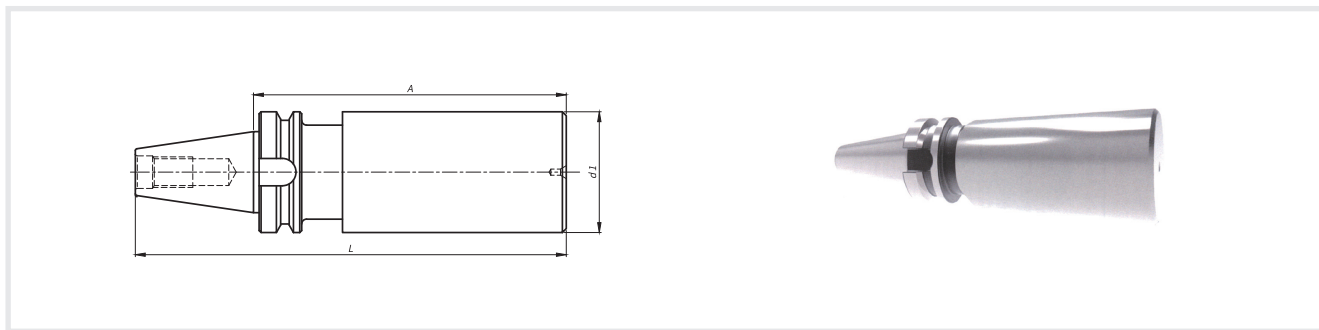
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253

毛坯刀柄(渗碳钢)

Tool Blanks with Alloy Case-hardened Steel


 JIS
 B6339
 MAS 403 BT

 Form
 A

No.	Model	Size	d1	A	L	kg
517.5002.285	BT30-BLH45-150	30	45	150	198.4	2.0
517.5003.265	BT40-BLH63-150	40	63	150	215.4	4.0
517.5004.265	BT40-BLH63-250	40	63	250	315.4	6.4
517.5003.225	BT50-BLH95-180	50	95	180	281.8	11.5
517.5004.225	BT50-BLH95-315	50	95	315	416.8	19.0

使用方向:用于制造工具系统产品。

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2)。刀具端面抛光,未做淬硬处理,为原材料本身硬度。

材料:渗碳钢

注意:其他型号和尺寸可按订货要求制作。

Use: For own manufacture of special tools.

Design:Taper including flange hardened.Vickers hardness min HV670kp/mm² (min.HRC 58).Taper ground, shank not ground prepared to be finished,unhardened.

Material:Aolly case-hardened steel.

Note: Other designs and sizes are available on request.

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Tool Holders DIN 69871 (JT)

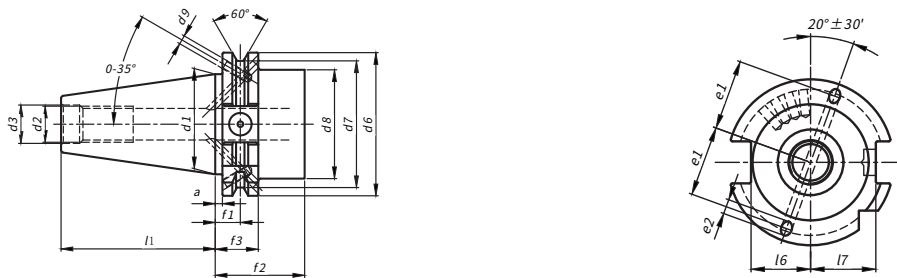
JT-DIN 69871



DIN 69871 型刀柄	Tools Holders of DIN 69871	
热装夹头刀柄	i-tec® Shrink-fit Chucks	050
丝锥快换夹头刀柄	Quick Change Tapping Chucks	059
削平型直柄立铣刀柄	Reduction Sleeves for Straight Shanks	060
液压夹头刀柄	Hydraulic Expansion Chucks	065
弹簧夹头刀柄	Collet Chucks with internal thread	067
GSK高精度弹簧夹头刀柄	Collet Chucks GSK	070
套式铣刀柄	Shell End Mill Arbors	072
端铣刀柄	Shell End Mill Arbors with enlarged contact diameter	074
KFS模块式铣刀柄	Holders for screw-in milling cutters	078
莫氏圆锥孔刀柄	Reduction Sleeves for morse taper	080
三面刃铣刀柄	Side milling Cutter Arbor	083
套式立铣刀柄	Shell End Mill Arbors	084
钻夹头刀柄	Integrated Drill Chuck Arbors	086
强力铣夹头刀柄	Strong Chuck Holder For Boring and Milling	088
毛坯刀柄	Tool Blanks	090

德国标准锥柄 (JT) AD/B

Tool Holders DIN 69871-1 AD/B



DIN
69871

Form
AD/B

JT	d1	d2	d3/H7	d6-0.1	d7-0.5	d8	d9	l1-0.3	l6-0.4	l7-0.4	e1±0.1	e2	a	f1	f2	f3
40	44.45	M16	17	63.55	56.25	50	4	68.4	22.8	25	27	5	3.2	11.1	35	19.1
50	69.85	M24	25	97.5	91.25	80	6	101.75	35.5	37.7	42	7	3.2	11.1	35	19.1

符合DIN 69871-1 AD/B型, 并且冷却时经过法兰的锥柄进行内冷却和外冷却。

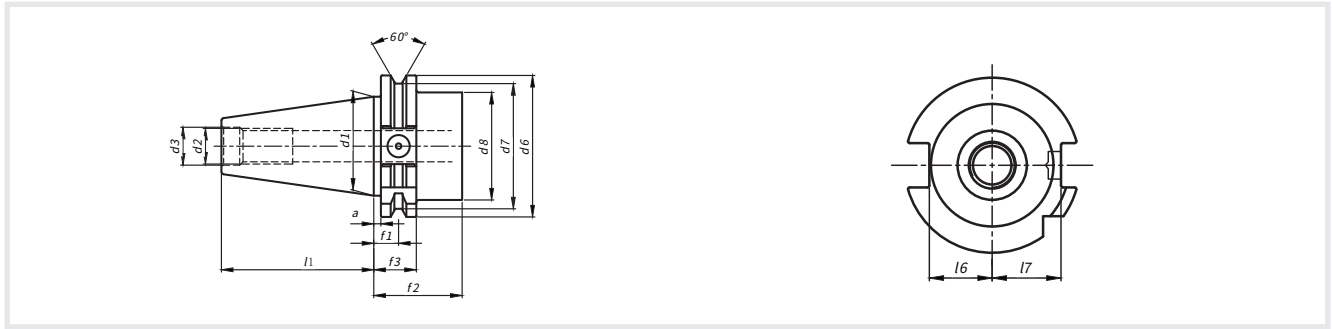
Conform with the DIN 69871-1 AD/B and is internally cooled by flange and External cooling cone handle.

其中AD/B型有密封螺栓, 也可以按实际需要拆卸。

The type AD/B cooling hole is blocked by bolts, and it would also be disassembled according to the actual needs.

德国标准锥柄 (JT) AD

Tool Holders DIN 69871-1 AD



DIN
69871

Form
AD

JT	d1	d2	d3/H7	d6/-0.1	d7/-0.5	d8	l1-0.3	l6-0.4	l7-0.4	a	f1	f2	f3
30	31.75	M12	13	50	44.3	45	47.8	16.4	19	3.2	11.1	35	19.1
40	44.45	M16	17	63.55	56.25	50	68.4	22.8	25	3.2	11.1	35	19.1
50	69.85	M24	25	97.5	91.25	80	101.75	35.5	37.7	3.2	11.1	35	19.1
60	107.95	M30	32	155	147.7	130	161.8	54.5	59.3	3.2	11.1	35	19.1

内冷却符合DIN 69871-1 AD型

设计:刀柄硬度应满足临界变形指数,硬度的应该维持在 HV670±40(近似于HRC 58±2),淬硬(渗碳)层在0.5mm以上。其中,锥度公差AT3符合DIN 2080-1。

材料:符合硬度要求的合金钢,抗拉强度980N/MM²。

说明:价格和交付情况如有变化会在详单上实时变更。(单位:mm)

仅凯狮有权对此类产品的技术参数进行更改。

Central coolant supply according to DIN 69871-1 AD.

Design: The hardness shall meet the low deformation, with HV 670±40 (approximately HRC 58±2) and hardened (carburize) layer above 0.5mm. Taper tolerance fits with DIN 2080-1 at AT3.

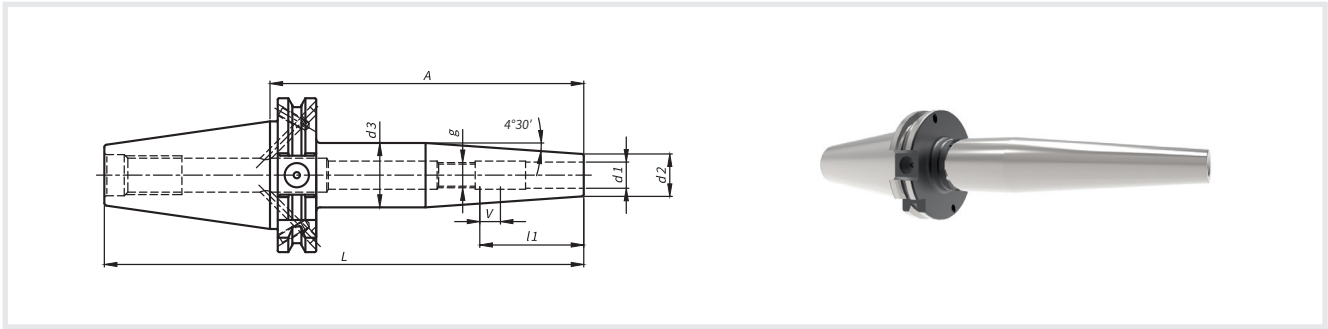
Material:The alloy steel material of the clamping tools meet the hardness requirements and can withstand tensile strength of 980 N/MM².

Description: Price and delivery will change in real time on the details. (Units in mm)

Only Kelch retains the authority to modify the technology.

热装夹头刀柄 (标准型)

i-tec® Shrink-fit Chucks



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.0011.292	JT40-SRK3-70	40	3	70	12	17	-	-	138.3	-	0.9
311.0012.292	JT40-SRK3-120	40	3	120	12	17	-	-	188.3	-	1.0
311.0013.292	JT40-SRK4-70	40	4	70	12	17	-	-	138.3	-	0.9
311.0014.292	JT40-SRK4-120	40	4	120	12	17	-	-	188.3	-	1.0
311.0015.292	JT40-SRK5-70	40	5	70	12	17	-	-	138.3	-	0.9
311.0016.292	JT40-SRK5-120	40	5	120	12	17	-	-	188.3	-	1.0
311.0001.292	JT40-SRK6-80	40	6	80	21	31	36	M5	148.3	10	1.2
311.0031.292	JT40-SRK6-120	40	6	120	21	32	36	M5	188.3	10	1.5
311.0041.292	JT40-SRK6-160	40	6	160	21	32	36	M5	228.3	10	1.7
311.0002.292	JT40-SRK8-80	40	8	80	21	31	36	M6	148.3	10	1.2
311.0032.292	JT40-SRK8-120	40	8	120	21	32	36	M6	188.3	10	1.5
311.0042.292	JT40-SRK8-160	40	8	160	21	32	36	M6	228.3	10	1.7
311.0003.292	JT40-SRK10-80	40	10	80	24	34	41	M8×1	148.3	10	1.3
311.0033.292	JT40-SRK10-120	40	10	120	24	34	41	M8×1	188.3	10	1.5
311.0043.292	JT40-SRK10-160	40	10	160	24	34	41	M8×1	228.3	10	1.8
311.0004.292	JT40-SRK12-80	40	12	80	24	34	47	M10×1	148.3	10	1.3
311.0034.292	JT40-SRK12-120	40	12	120	24	34	47	M10×1	188.3	10	1.5
311.0044.292	JT40-SRK12-160	40	12	160	24	34	47	M10×1	228.3	10	1.8
311.0005.292	JT40-SRK14-80	40	14	80	27	37	47	M10×1	148.3	10	1.3
311.0045.292	JT40-SRK14-160	40	14	160	27	36	47	M10×1	228.3	10	1.9
311.0006.292	JT40-SRK16-80	40	16	80	27	37	50	M12×1	148.3	10	1.3
311.0036.292	JT40-SRK16-120	40	16	120	27	36	50	M12×1	188.3	10	1.6
311.0046.292	JT40-SRK16-160	40	16	160	27	36	50	M12×1	228.3	10	1.9
311.0007.292	JT40-SRK18-80	40	18	80	33	43	50	M12×1	148.3	10	1.5
311.0047.292	JT40-SRK18-160	40	18	160	33	44	50	M12×1	228.3	10	2.5
311.0008.292	JT40-SRK20-80	40	20	80	33	43	52	M16×1	148.3	10	1.5
311.0038.292	JT40-SRK20-120	40	20	120	33	44	52	M16×1	188.3	10	2.0
311.0048.292	JT40-SRK20-160	40	20	160	33	44	52	M16×1	228.3	10	2.5
311.0009.292	JT40-SRK25-100	40	25	100	44	50	58	M16×1	168.3	10	2.1
311.0049.292	JT40-SRK25-160	40	25	160	44	50	58	M16×1	228.3	10	3.0

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.0001.291	JT50-SRK6-80	50	6	80	21	31	36	M5	181.65	10	3.0
431.0083.109	JT50-SRK6-130	50	6	130	21	32	36	M5	231.65	10	3.3
311.0041.291	JT50-SRK6-160	50	6	160	21	32	36	M5	261.65	10	3.5
311.0051.291	JT50-SRK6-200	50	6	200	21	27	36	M5	301.65	10	3.4
311.0002.291	JT50-SRK8-80	50	8	80	21	31	36	M6	181.65	10	3.0
431.0084.109	JT50-SRK8-130	50	8	130	21	32	36	M6	231.65	10	3.3
311.0042.291	JT50-SRK8-160	50	8	160	21	32	36	M6	261.65	10	3.5
311.0052.291	JT50-SRK8-200	50	8	200	21	27	36	M6	301.65	10	3.4
311.0003.291	JT50-SRK10-80	50	10	80	24	34	41	M8×1	181.65	10	3.0
431.0085.109	JT50-SRK10-130	50	10	130	24	34	41	M8×1	231.65	10	3.4
311.0043.291	JT50-SRK10-160	50	10	160	24	34	41	M8×1	261.65	10	3.6
311.0053.291	JT50-SRK10-200	50	10	200	24	34	41	M8×1	301.65	10	3.9
311.0004.291	JT50-SRK12-80	50	12	80	24	34	47	M10×1	181.65	10	3.0
431.0086.109	JT50-SRK12-130	50	12	130	24	34	47	M10×1	231.65	10	3.4
311.0044.291	JT50-SRK12-160	50	12	160	24	34	47	M10×1	261.65	10	3.6
311.0054.291	JT50-SRK12-200	50	12	200	24	34	47	M10×1	301.65	10	3.9
311.0005.291	JT50-SRK14-80	50	14	80	27	37	47	M10×1	181.65	10	3.1
431.0087.109	JT50-SRK14-130	50	14	130	27	36	47	M10×1	231.65	10	3.5
311.0045.291	JT50-SRK14-160	50	14	160	27	36	47	M10×1	261.65	10	3.7
311.0055.291	JT50-SRK14-200	50	14	200	27	36	47	M10×1	301.65	10	4.0
311.0006.291	JT50-SRK16-80	50	16	80	27	37	50	M12×1	181.65	10	3.1
431.0088.109	JT50-SRK16-130	50	16	130	27	36	50	M12×1	231.65	10	3.5
311.0046.291	JT50-SRK16-160	50	16	160	27	36	50	M12×1	261.65	10	3.7
311.0056.291	JT50-SRK16-200	50	16	200	27	36	50	M12×1	301.65	10	4.0
311.0007.291	JT50-SRK18-80	50	18	80	33	43	50	M12×1	181.65	10	3.3
431.0089.109	JT50-SRK18-130	50	18	130	33	44	50	M12×1	231.65	10	3.9
311.0047.291	JT50-SRK18-160	50	18	160	33	44	50	M12×1	261.65	10	4.3
311.0057.291	JT50-SRK18-200	50	18	200	33	44	50	M12×1	301.65	10	4.8
311.0008.291	JT50-SRK20-80	50	20	80	33	43	52	M16×1	181.65	10	3.3
431.0090.109	JT50-SRK20-130	50	20	130	33	44	52	M16×1	231.65	10	3.9
311.0048.291	JT50-SRK20-160	50	20	160	33	44	52	M16×1	261.65	10	4.3
311.0058.291	JT50-SRK20-200	50	20	200	33	44	52	M16×1	301.65	10	4.8
311.0009.291	JT50-SRK25-100	50	25	100	44	53	58	M16×1	201.65	10	4.0
431.0091.109	JT50-SRK25-130	50	25	130	44	53	58	M16×1	231.65	10	4.5
311.0049.291	JT50-SRK25-160	50	25	160	44	53	58	M16×1	261.65	10	5.0
311.0059.291	JT50-SRK25-200	50	25	200	44	53	58	M16×1	301.65	10	5.7
311.0010.291	JT50-SRK32-100	50	32	100	44	57	61	M16×1	201.65	10	4.2
431.0092.109	JT50-SRK32-130	50	32	130	44	56	61	M16×1	231.65	10	4.7
311.0050.291	JT50-SRK32-160	50	32	160	44	56	61	M16×1	261.65	10	5.3
311.0060.291	JT50-SRK32-200	50	32	200	44	53	61	M16×1	301.65	10	5.7

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-V尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

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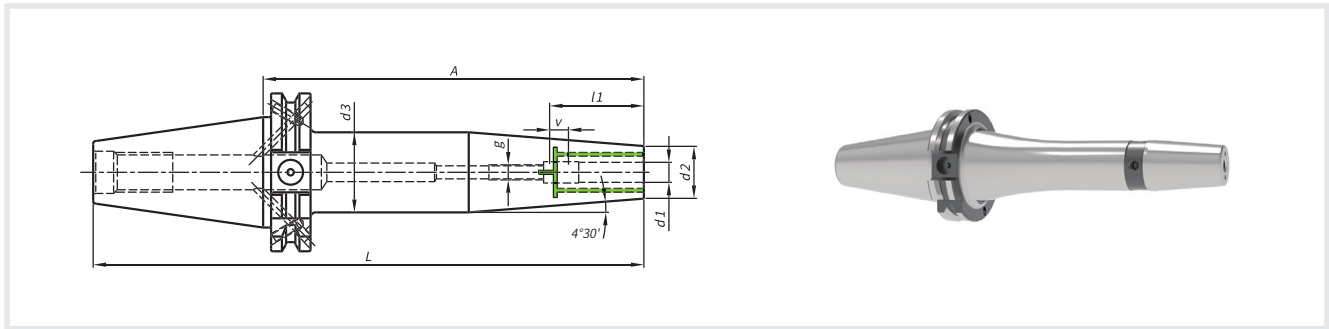
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热装夹头刀柄(端面冷却型)

i-tec® Shrink-fit Chunks version



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.4401.292	JT40-SRK6-80C2	40	6	80	21	31	36	M5	148.3	10	1.2
311.4461.292	JT40-SRK6-120C2	40	6	120	21	27	36	M5	188.3	10	1.5
311.4471.292	JT40-SRK6-130C2	40	6	130	21	32	36	M5	198.3	10	1.5
311.4402.292	JT40-SRK8-80C2	40	8	80	21	31	36	M6	148.3	10	1.2
311.4462.292	JT40-SRK8-120C2	40	8	120	21	27	36	M6	188.3	10	1.5
311.4472.292	JT40-SRK8-130C2	40	8	130	21	32	36	M6	198.3	10	1.5
311.4403.292	JT40-SRK10-80C2	40	10	80	24	34	41	M8×1	148.3	10	1.3
311.4463.292	JT40-SRK10-120C2	40	10	120	24	32	41	M8×1	188.3	10	1.5
311.4473.292	JT40-SRK10-130C2	40	10	130	24	34	41	M8×1	198.3	10	1.6
311.4404.292	JT40-SRK12-80C2	40	12	80	24	34	47	M10×1	148.3	10	1.3
311.4464.292	JT40-SRK12-120C2	40	12	120	24	32	47	M10×1	188.3	10	1.5
311.4474.292	JT40-SRK12-130C2	40	12	130	24	34	47	M10×1	198.3	10	1.6
311.4405.292	JT40-SRK14-80C2	40	14	80	27	37	47	M10×1	148.3	10	1.3
311.4465.292	JT40-SRK14-120C2	40	14	120	27	34	47	M10×1	188.3	10	1.6
311.4475.292	JT40-SRK14-130C2	40	14	130	27	36	47	M10×1	198.3	10	1.7
311.4406.292	JT40-SRK16-80C2	40	16	80	27	37	50	M12×1	148.3	10	1.3
311.4466.292	JT40-SRK16-120C2	40	16	120	27	34	50	M12×1	188.3	10	1.6
311.4476.292	JT40-SRK16-130C2	40	16	130	27	36	50	M12×1	198.3	10	1.7
311.4407.292	JT40-SRK18-80C2	40	18	80	33	43	50	M12×1	148.3	10	1.5
311.4467.292	JT40-SRK18-120C2	40	18	120	33	42	50	M12×1	188.3	10	2.0
311.4477.292	JT40-SRK18-130C2	40	18	130	33	44	50	M12×1	198.3	10	2.1
311.4408.292	JT40-SRK20-80C2	40	20	80	33	43	52	M16×1	148.3	10	1.5
311.4468.292	JT40-SRK20-120C2	40	20	120	33	42	52	M16×1	188.3	10	2.0
311.4478.292	JT40-SRK20-130C2	40	20	130	33	44	52	M16×1	198.3	10	2.1
311.4409.292	JT40-SRK25-100C2	40	25	100	44	50	58	M16×1	168.3	10	2.1
311.4469.292	JT40-SRK25-120C2	40	25	120	44	50	58	M16×1	188.3	10	2.4
311.4479.292	JT40-SRK25-130C2	40	25	130	44	50	58	M16×1	198.3	10	2.5

JT 刀柄

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.4451.291	JT50-SRK6-80C2	50	6	80	21	27	36	M5	181.65	10	3.0
431.0094.109	JT50-SRK6-130C2	50	6	130	21	27	36	M5	231.65	10	3.3
311.4481.291	JT50-SRK6-160C2	50	6	160	21	27	36	M5	261.65	10	3.5
311.4491.291	JT50-SRK6-200C2	50	6	200	21	27	36	M5	301.65	10	3.4
311.4452.291	JT50-SRK8-80C2	50	8	80	21	27	36	M6	181.65	10	3.0
431.0098.109	JT50-SRK8-130C2	50	8	130	21	27	36	M6	231.65	10	3.3
311.4482.291	JT50-SRK8-160C2	50	8	160	21	27	36	M6	261.65	10	3.5
311.4492.291	JT50-SRK8-200C2	50	8	200	21	27	36	M6	301.65	10	3.4
311.4453.291	JT50-SRK10-80C2	50	10	80	24	34	41	M8×1	181.65	10	3.0
431.0102.109	JT50-SRK10-130C2	50	10	130	24	32	41	M8×1	231.65	10	3.4
311.4483.291	JT50-SRK10-160C2	50	10	160	24	32	41	M8×1	261.65	10	3.6
311.4493.291	JT50-SRK10-200C2	50	10	200	24	32	41	M8×1	301.65	10	3.9
311.4454.291	JT50-SRK12-80C2	50	12	80	24	32	47	M10×1	181.65	10	3.0
431.0106.109	JT50-SRK12-130C2	50	12	130	24	32	47	M10×1	231.65	10	3.4
311.4484.291	JT50-SRK12-160C2	50	12	160	24	32	47	M10×1	261.65	10	3.6
311.4494.291	JT50-SRK12-200C2	50	12	200	24	32	47	M10×1	301.65	10	3.9
311.4455.291	JT50-SRK14-80C2	50	14	80	27	34	47	M10×1	181.65	10	3.1
431.0110.109	JT50-SRK14-130C2	50	14	130	27	34	47	M10×1	231.65	10	3.5
311.4485.291	JT50-SRK14-160C2	50	14	160	27	34	47	M10×1	261.65	10	3.7
311.4495.291	JT50-SRK14-200C2	50	14	200	27	34	47	M10×1	301.65	10	4.0
311.4456.291	JT50-SRK16-80C2	50	16	80	27	34	50	M12×1	181.65	10	3.1
431.0114.109	JT50-SRK16-130C2	50	16	130	27	34	50	M12×1	231.65	10	3.5
311.4486.291	JT50-SRK16-160C2	50	16	160	27	34	50	M12×1	261.65	10	3.7
311.4496.291	JT50-SRK16-200C2	50	16	200	27	34	50	M12×1	301.65	10	4.0
311.4457.291	JT50-SRK18-80C2	50	18	80	33	42	50	M12×1	181.65	10	3.3
431.0118.109	JT50-SRK18-130C2	50	18	130	33	42	50	M12×1	231.65	10	3.9
311.4487.291	JT50-SRK18-160C2	50	18	160	33	42	50	M12×1	261.65	10	4.3
311.4497.291	JT50-SRK18-200C2	50	18	200	33	42	50	M12×1	301.65	10	4.8
311.4458.291	JT50-SRK20-80C2	50	20	80	33	42	52	M16×1	181.65	10	3.3
431.0122.109	JT50-SRK20-130C2	50	20	130	33	42	52	M16×1	231.65	10	3.9
311.4488.291	JT50-SRK20-160C2	50	20	160	33	42	52	M16×1	261.65	10	4.3
311.4498.291	JT50-SRK20-200C2	50	20	200	33	42	52	M16×1	301.65	10	4.8
311.4459.291	JT50-SRK25-100C2	50	25	100	44	52.5	58	M16×1	201.65	10	4.0
431.0126.109	JT50-SRK25-130C2	50	25	130	44	52.5	58	M16×1	231.65	10	4.5
311.4489.291	JT50-SRK25-160C2	50	25	160	44	52.5	58	M16×1	261.65	10	5.0
311.4499.291	JT50-SRK25-200C2	50	25	200	44	52.5	58	M16×1	301.65	10	5.7
311.4460.291	JT50-SRK32-100C2	50	32	100	44	52.5	61	M16×1	201.65	10	4.2
431.0130.109	JT50-SRK32-130C2	50	32	130	44	52.5	61	M16×1	231.65	10	4.7
311.4490.291	JT50-SRK32-160C2	50	32	160	44	52.5	61	M16×1	261.65	10	5.3
311.4500.291	JT50-SRK32-200C2	50	32	200	44	52.5	61	M16×1	301.65	10	5.7

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-V尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

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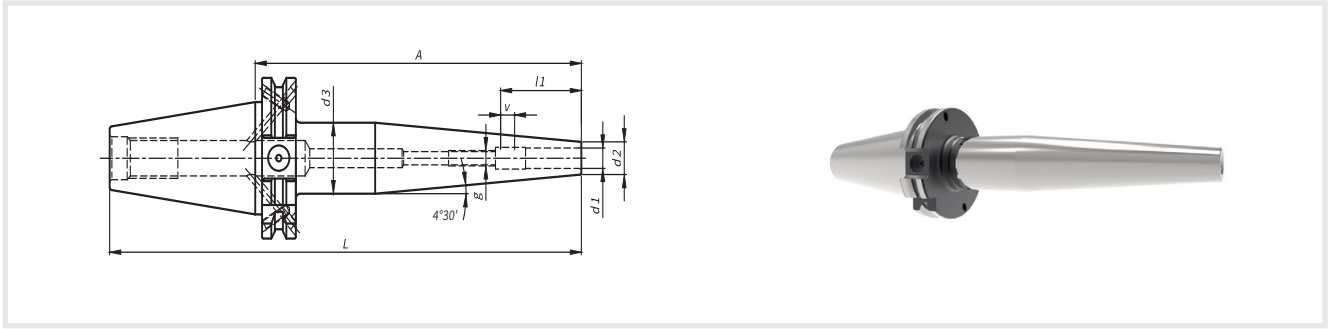
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热装夹头刀柄 (细长型)

i-tec® Shrink-fit Chunks silm version



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0700.292	JT40-SRK3-120SL	40	3	120	9	25	-	-	188.4	-	1.2
311.0710.292	JT40-SRK3-160SL	40	3	160	9	25	-	-	228.4	-	1.3
311.0701.292	JT40-SRK4-120SL	40	4	120	9	25	-	-	188.4	-	1.2
311.0711.292	JT40-SRK4-160SL	40	4	160	9	25	-	-	228.4	-	1.3
311.0702.292	JT40-SRK5-120SL	40	5	120	9	25	-	-	188.4	-	1.2
311.0712.292	JT40-SRK5-160SL	40	5	160	9	25	-	-	228.4	-	1.3
311.0703.292	JT40-SRK6-120SL	40	6	120	15	31	36	M5	188.4	10	1.4
311.0713.292	JT40-SRK6-160SL	40	6	160	15	30	36	M5	228.4	10	1.5
311.0704.292	JT40-SRK8-120SL	40	8	120	15	31	36	M6	188.4	10	1.4
311.0714.292	JT40-SRK8-160SL	40	8	160	15	30	36	M6	228.4	10	1.5
311.0705.292	JT40-SRK10-120SL	40	10	120	18	34	41	M8×1	188.4	10	1.5
311.0715.292	JT40-SRK10-160SL	40	10	160	18	32	41	M8×1	228.4	10	1.6
311.0706.292	JT40-SRK12-120SL	40	12	120	18	34	47	M10×1	188.4	10	1.5
311.0716.292	JT40-SRK12-160SL	40	12	160	18	32	47	M10×1	228.4	10	1.6
311.0700.291	JT50-SRK3-120SL	50	3	120	9	25	-	-	221.65	-	3.0
311.0710.291	JT50-SRK3-160SL	50	3	160	9	25	-	-	261.65	-	3.1
311.0701.291	JT50-SRK4-120SL	50	4	120	9	25	-	-	221.65	-	3.0
311.0711.291	JT50-SRK4-160SL	50	4	160	9	25	-	-	261.65	-	3.1
311.0702.291	JT50-SRK5-120SL	50	5	120	9	25	-	-	221.65	-	3.0
311.0712.291	JT50-SRK5-160SL	50	5	160	9	25	-	-	261.65	-	3.1
311.0703.291	JT50-SRK6-120SL	50	6	120	15	31	36	M5	221.65	10	3.1
311.0713.291	JT50-SRK6-160SL	50	6	160	15	30	36	M5	261.65	10	3.3
311.0704.291	JT50-SRK8-120SL	50	8	120	15	31	36	M6	221.65	10	3.1
311.0714.291	JT50-SRK8-160SL	50	8	160	15	30	36	M6	261.65	10	3.3
311.0705.291	JT50-SRK10-120SL	50	10	120	18	34	41	M8×1	221.65	10	3.2
311.0715.291	JT50-SRK10-160SL	50	10	160	18	32	41	M8×1	261.65	10	3.4
311.0706.291	JT50-SRK12-120SL	50	12	120	18	34	47	M10×1	221.65	10	3.2
311.0716.291	JT50-SRK12-160SL	50	12	160	18	32	47	M10×1	261.65	10	3.4

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-V尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

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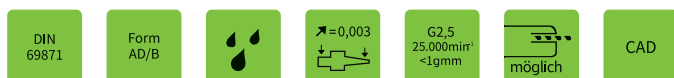
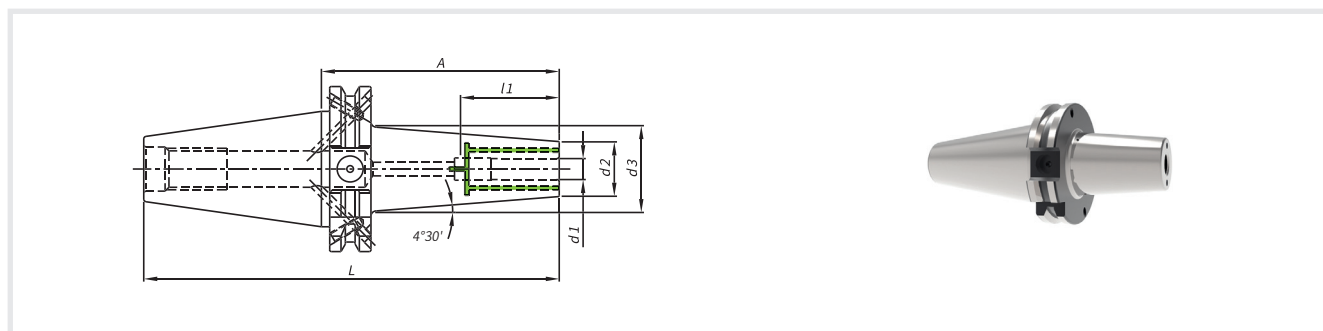
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热装夹头刀柄(超短型-端面冷却型)

i-tec® Shrink-fit Chunks ultra short version



No.	Model	Size	d1	A	d2	d3	l1	L	Kg
311.4353.292	JT40-SRK10-65C2	40	10	65	26	33	41	133.4	1.1
311.4354.292	JT40-SRK12-65C2	40	12	65	26	33	45	133.4	1.1
311.4356.292	JT40-SRK16-65C2	40	16	65	29	36	52	133.4	1.2
311.4358.292	JT40-SRK20-65C2	40	20	65	35	42	54	133.4	1.3
311.4359.292	JT40-SRK25-75C2	40	25	75	45	50	59	143.4	1.6

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-V尺寸, 否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

Other designs and sizes are available on request.
Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
Special shrinking devices are recommended for tool mounting and dismantling.

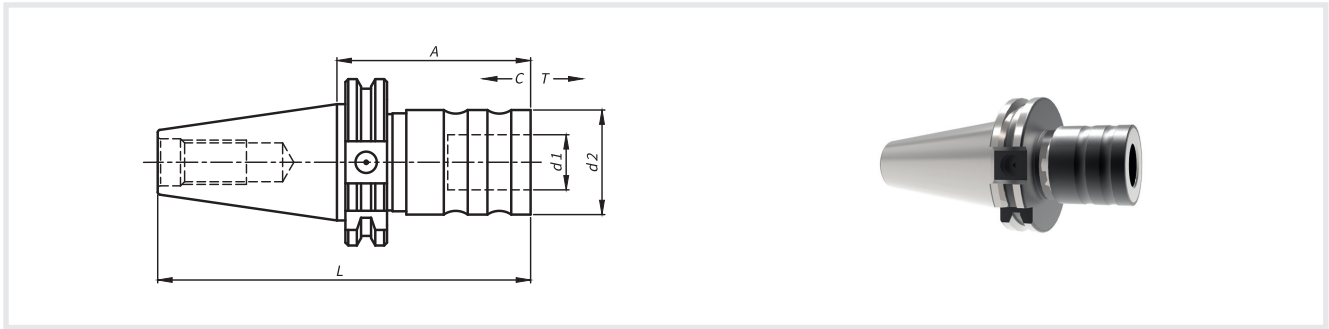
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丝锥快换夹头刀柄
Quick Change Tapping Chucks



No.	Model	Size	M	A	d1	d2	L	C	T	kg
440.0001.292	JT40-G3-60	40	M3-M14	60	19	36	128.4	6.5	7.5	1.1
440.0101.161	JT40-G3-120	40	M3-M14	120	19	36	188.4	6.5	7.5	1.5
440.0002.292	JT40-G8-98	40	M4.5-M24	98	31	53	166.4	8.5	15	2.1
440.0103.161	JT40-G8-150	40	M4.5-M24	150	31	53	218.4	8.5	15	2.9
440.0001.291	JT50-G3-60	50	M3-M14	60	19	36	161.65	6.5	7.5	2.9
440.0002.291	JT50-G8-98	50	M4.5-M24	98	31	53	199.65	8.5	15	3.8
440.0105.161	JT50-G8-150	50	M4.5-M24	150	31	53	251.65	8.5	15	4.6
440.0106.161	JT50-G14-139	50	M14-M33	139	48	78	240.65	15	23	6.7
440.0107.161	JT50-G14-200	50	M14-M33	200	48	78	301.65	15	23	8.7

使用方向:用于夹持带或不带安全机构的快换丝锥夹套。

Use: For holding quick changeinserts with or without safety clutch.

设计:

Design:1. Length compensation on compression and tension to compensate the difference between feed and tap pitch. 2.The pressure point mechanism guarantees that the tap immediately cuts the thread as soon as the permissible axial force is reached.

- 1.长度补偿在收缩和拉伸方向取决于进给和螺距的不同。
- 2.当攻丝的轴向力达到临界值时会立即切断攻丝,以避免拉力释放时,夹套因承受过大轴向拉力造成不可逆的损害。

注意:其他型号和尺寸可按订货要求制作。

The tension lock protects the tapping chuck against damage as a result of high axial tensile load.

Note:Other designs and sizes are available on request.

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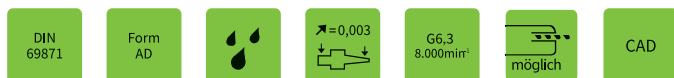
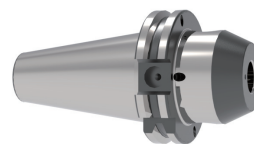
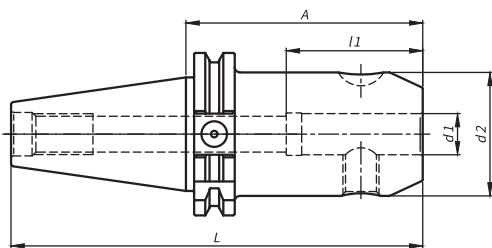
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削平型直柄立铣刀柄(威尔顿凹口型)

Reduction Sleeves for Straight Shanks with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	L	Tol./d1	screw	kg
420.0251.292	JT40-EM6-50	40	6	50	25	35	118.3	+0.005	M6X10	0.9
420.0260.292	JT40-EM6-100	40	6	100	25	35	168.3	+0.005	M6X10	1.1
440.0144.009	JT40-EM6-160	40	6	160	25	35	228.3	+0.005	M6X10	1.4
420.0252.292	JT40-EM8-50	40	8	50	28	35	118.3	+0.005	M8X10	1.0
420.0261.292	JT40-EM8-100	40	8	100	28	35	168.3	+0.005	M8X10	1.2
440.0145.009	JT40-EM8-160	40	8	160	28	35	228.3	+0.005	M8X10	1.5
420.0253.292	JT40-EM10-50	40	10	50	35	39	118.3	+0.005	M10X12	1.1
420.0262.292	JT40-EM10-100	40	10	100	35	39	168.3	+0.005	M10X12	1.4
440.0146.009	JT40-EM10-160	40	10	160	35	39	228.3	+0.005	M10X12	1.9
420.0254.292	JT40-EM12-50	40	12	50	42	44	118.3	+0.005	M12X16	1.2
420.0263.292	JT40-EM12-100	40	12	100	42	44	168.3	+0.005	M12X16	1.7
440.0147.009	JT40-EM12-160	40	12	160	42	44	228.3	+0.005	M12X16	2.4
420.0258.292	JT40-EM14-50	40	14	50	44	44	118.3	+0.005	M12X16	1.2
420.0264.292	JT40-EM14-100	40	14	100	44	44	168.3	+0.005	M12X16	1.8
440.0148.009	JT40-EM14-160	40	14	160	44	44	228.3	+0.005	M12X16	2.5
420.0255.292	JT40-EM16-63	40	16	63	48	47	131.3	+0.005	M14X16	1.4
420.0265.292	JT40-EM16-100	40	16	100	48	47	168.3	+0.005	M14X16	2.0
440.0149.009	JT40-EM16-160	40	16	160	48	47	228.3	+0.005	M14X16	2.8
420.0259.292	JT40-EM18-63	40	18	63	50	47	131.3	+0.005	M14X16	1.5
420.0266.292	JT40-EM18-100	40	18	100	50	47	168.3	+0.005	M14X16	2.1
440.0150.009	JT40-EM18-160	40	18	160	50	47	228.3	+0.005	M14X16	3.0
420.0256.292	JT40-EM20-63	40	20	63	50	49	131.3	+0.007	M16X16	1.6
420.0267.292	JT40-EM20-100	40	20	100	50	49	168.3	+0.007	M16X16	2.2
440.0151.009	JT40-EM20-160	40	20	160	50	49	228.3	+0.007	M16X16	3.2
420.0257.292	JT40-EM25-100	40	25	100	65	54	168.3	+0.007	M18X2X20	2.9
440.0152.009	JT40-EM25-160	40	25	160	65	54	228.3	+0.007	M18X2X20	4.5
420.0268.292	JT40-EM32-100	40	32	100	72	54	168.3	+0.007	M20X2X20	3.4
440.0153.009	JT40-EM32-160	40	32	160	72	54	228.3	+0.007	M20X2X20	5.3

No.	Model	Size	d1	A	d2	l1	L	Tol./d1	screw	kg
420.0251.291	JT50-EM6-63	50	6	63	25	35	164.65	+0.005	M6X10	2.8
420.0271.291	JT50-EM6-100	50	6	100	25	35	201.65	+0.005	M6X10	2.9
440.0154.009	JT50-EM6-160	50	6	160	25	35	261.65	+0.005	M6X10	3.1
420.0252.291	JT50-EM8-63	50	8	63	28	35	164.65	+0.005	M8X10	2.8
420.0272.291	JT50-EM8-100	50	8	100	28	35	201.65	+0.005	M8X10	3.0
440.0155.009	JT50-EM8-160	50	8	160	28	35	261.65	+0.005	M8X10	3.3
420.0253.291	JT50-EM10-63	50	10	63	35	39	164.65	+0.005	M10X12	2.9
420.0273.291	JT50-EM10-100	50	10	100	35	39	201.65	+0.005	M10X12	3.2
440.0156.009	JT50-EM10-160	50	10	160	35	39	261.65	+0.005	M10X12	3.7
420.0254.291	JT50-EM12-63	50	12	63	42	44	164.65	+0.005	M12X16	3.1
420.0274.291	JT50-EM12-100	50	12	100	42	44	201.65	+0.005	M12X16	3.5
440.0157.009	JT50-EM12-160	50	12	160	42	44	261.65	+0.005	M12X16	4.1
420.0264.291	JT50-EM14-63	50	14	63	44	44	164.65	+0.005	M12X16	3.1
420.0275.291	JT50-EM14-100	50	14	100	44	44	201.65	+0.005	M12X16	3.6
440.0158.009	JT50-EM14-160	50	14	160	44	44	261.65	+0.005	M12X16	4.3
420.0255.291	JT50-EM16-63	50	16	63	48	47	164.65	+0.005	M14X16	3.2
420.0276.291	JT50-EM16-100	50	16	100	48	47	201.65	+0.005	M14X16	3.8
440.0159.009	JT50-EM16-160	50	16	160	48	47	261.65	+0.005	M14X16	4.6
420.0268.291	JT50-EM18-63	50	18	63	50	47	164.65	+0.005	M14X16	3.3
420.0277.291	JT50-EM18-100	50	18	100	50	47	201.65	+0.005	M14X16	3.8
440.0160.009	JT50-EM18-160	50	18	160	50	47	261.65	+0.005	M14X16	4.8
420.0256.291	JT50-EM20-63	50	20	63	52	49	164.65	+0.007	M16X16	3.3
420.0278.291	JT50-EM20-100	50	20	100	52	49	201.65	+0.007	M16X16	4.0
440.0161.009	JT50-EM20-160	50	20	160	52	49	261.65	+0.007	M16X16	5.0
420.0257.291	JT50-EM25-80	50	25	80	65	54	181.65	+0.007	M18X2X20	4.2
420.0279.291	JT50-EM25-100	50	25	100	65	54	201.65	+0.007	M18X2X20	4.7
440.0162.009	JT50-EM25-160	50	25	160	65	54	261.65	+0.007	M18X2X20	6.3
420.0258.291	JT50-EM32-100	50	32	100	72	58	201.65	+0.007	M20X2X20	5.2
440.0163.009	JT50-EM32-160	50	32	160	72	58	261.65	+0.007	M20X2X20	7.1
420.0259.291	JT50-EM40-100	50	40	100	80	75	201.65	+0.007	M20X2X20	5.8
440.0164.009	JT50-EM40-160	50	40	160	80	75	261.65	+0.007	M20X2X20	8.2
440.0020.009	JT50-EM50-125	50	50	125	90	88	226.65	+0.007	M24X2X20	7.9
440.0165.009	JT50-EM50-160	50	50	160	90	88	261.65	+0.007	M24X2X20	9.6
440.0022.009	JT60-EM25-100	60	25	100	65	54	261.8	+0.007	M18X2X20	11.1
440.0023.009	JT60-EM32-100	60	32	100	72	58	261.8	+0.007	M20X2X20	11.6
440.0024.009	JT60-EM40-115	60	40	115	80	75	276.8	+0.007	M20X2X20	12.7
440.0025.009	JT60-EM50-125	60	50	125	90	88	286.8	+0.007	M24X2X20	14.0
440.0026.009	JT60-EM63-150	60	63	150	120	98	311.8	+0.007	M24X2X20	19.7

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

注意:

Note:

- 1.带孔的调整螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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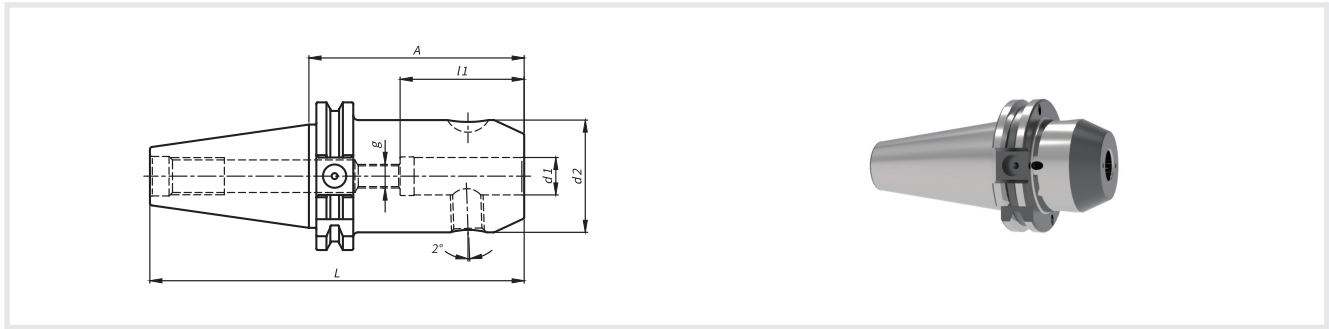
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2°斜削平型直柄立铣刀柄(威斯尔凹口型)

Reduction Sleeves for Straight Shanks 2° with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	g	L	Tol./d1	screw	kg
420.0151.292	JT40-EME6-50	40	6	50	25	35	M5	118.4	+0.005	M6X10	0.9
420.0152.292	JT40-EME8-50	40	8	50	28	35	M6	118.4	+0.005	M8X10	1.0
420.0153.292	JT40-EME10-50	40	10	50	35	39	M8	118.4	+0.005	M10X12	1.0
420.0154.292	JT40-EME12-50	40	12	50	42	44	M10	118.4	+0.005	M12X16	1.1
420.0164.292	JT40-EME14-50	40	14	50	44	44	M10	118.4	+0.005	M12X16	1.2
420.0155.292	JT40-EME16-63	40	16	63	48	47	M12	131.4	+0.005	M14X16	1.4
420.0168.292	JT40-EME18-63	40	18	63	50	47	M12	131.4	+0.005	M14X16	1.4
420.0156.292	JT40-EME20-63	40	20	63	52	49	M16	131.4	+0.007	M16X16	1.5
420.0157.292	JT40-EME25-100	40	25	100	65	54	M20	168.4	+0.007	M18X2X20	2.7
420.0158.292	JT40-EME32-100	40	32	100	72	58	M20	168.4	+0.007	M20X2X20	3.1
420.0151.291	JT50-EME6-63	50	6	63	25	35	M5	164.65	+0.005	M6X10	2.8
420.0152.291	JT50-EME8-63	50	8	63	28	35	M6	164.65	+0.005	M8X10	2.8
420.0153.291	JT50-EME10-63	50	10	63	35	39	M8	164.65	+0.005	M10X12	2.9
420.0154.291	JT50-EME12-63	50	12	63	42	44	M10	164.65	+0.005	M12X16	3.0
420.0164.291	JT50-EME14-63	50	14	63	44	44	M10	164.65	+0.005	M12X16	3.1
420.0155.291	JT50-EME16-63	50	16	63	48	47	M12	164.65	+0.005	M14X16	3.2
420.0168.291	JT50-EME18-63	50	18	63	50	47	M12	164.65	+0.005	M14X16	3.2
420.0156.291	JT50-EME20-63	50	20	63	52	49	M16	164.65	+0.007	M16X16	3.3
420.0157.291	JT50-EME25-80	50	25	80	65	54	M20	181.65	+0.007	M18X2X20	4.0
420.0158.291	JT50-EME32-100	50	32	100	72	58	M20	201.65	+0.007	M20X2X20	4.9
420.0159.291	JT50-EME40-100	50	40	100	80	75	M20	201.65	+0.007	M20X2X20	5.5

使用方向:此2°刀柄按 DIN 1835E型和DIN 6535 HE型夹持直柄铣刀。

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

注意:

- 1.带孔的调整螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

Use: For holding shank tools with inclined clamping with 2 angle, DIN 1835 E and DIN 6535 HE.

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

Note:

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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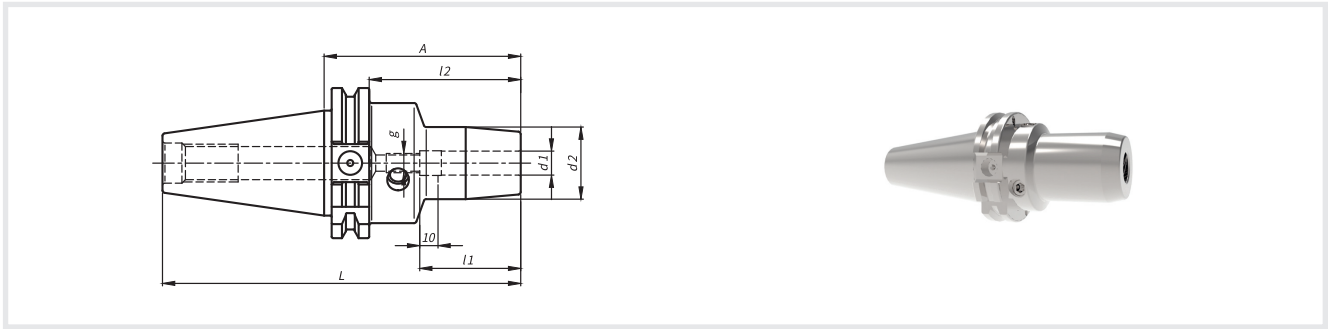


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液压夹头刀柄
Hydraulic Expansion Chunks



No.	Model	Size	d1	A	d2	l1	l2	g	L	kg
702.0001.292	JT40-HD6-80	40	6	80	26	37	61	M5	148.3	1.8
702.0002.292	JT40-HD8-80	40	8	80	28	37	61	M6	148.3	1.8
702.0003.292	JT40-HD10-80	40	10	80	30	41	61	M8	148.3	1.8
702.0004.292	JT40-HD12-80	40	12	80	32	46	61	M10	148.3	1.8
702.0037.292	JT40-HD12-150	40	12	150	32	46	131	M10	218.3	2.8
702.0038.292	JT40-HD12-200	40	12	200	32	46	181	M10	268.3	3.6
702.0005.292	JT40-HD14-80	40	14	80	34	46	61	M10	148.3	1.8
702.0006.292	JT40-HD16-85	40	16	85	38	49	66	M12	153.3	1.8
702.0007.292	JT40-HD18-85	40	18	85	40	49	66	M12	153.3	1.8
702.0008.292	JT40-HD20-85	40	20	85	42	51	66	M16	153.3	1.8
702.0045.292	JT40-HD20-150	40	20	150	42	51	131	M16	218.3	2.8
702.0046.292	JT40-HD20-200	40	20	200	42	51	181	M16	268.3	3.6
702.0009.292	JT40-HD25-105	40	25	105	50	57	86	M16	173.3	2.4
702.0010.292	JT40-HD32-115	40	32	115	63	61	96	M16	183.3	3.2
702.0001.291	JT50-HD6-80	50	6	80	26	37	61	M5	181.65	3.5
702.0002.291	JT50-HD8-80	50	8	80	28	37	61	M6	181.65	3.5
702.0003.291	JT50-HD10-80	50	10	80	30	41	61	M8	181.65	3.5
702.0004.291	JT50-HD12-80	50	12	80	32	46	61	M10	181.65	3.5
702.0037.291	JT50-HD12-150	50	12	150	32	46	131	M10	251.65	4.6
702.0038.291	JT50-HD12-200	50	12	200	32	46	181	M10	301.65	5.4
702.0005.291	JT50-HD14-80	50	14	80	34	46	61	M10	181.65	3.5
702.0006.291	JT50-HD16-85	50	16	85	38	49	66	M12	186.65	3.6
702.0007.291	JT50-HD18-85	50	18	85	40	49	66	M12	186.65	3.6
702.0008.291	JT50-HD20-85	50	20	85	42	51	66	M16	186.65	3.6
702.0045.291	JT50-HD20-150	50	20	150	42	51	131	M16	251.65	4.6
702.0046.291	JT50-HD20-200	50	20	200	42	51	181	M16	301.65	5.4
702.0009.291	JT50-HD25-100	50	25	100	50	57	81	M16	201.65	4.1
702.0010.291	JT50-HD32-100	50	32	100	63	61	81	M16	201.65	5.0

用途:用于DIN1835 A、B型和DIN6535 HA、HB型,其中DIN6535 HE型仅适用于带衬套的刀具。

设计:夹持精度为h6,粗糙度最小为Ra0.3,对于 $\phi 25$ 和 $\phi 32$ 尺寸只有A、HA型可用。

注意:

- 1.其他设计和尺寸也可根据要求提供。
- 2.工具架夹紧长度必须与尺寸L1-V相同,否则可能会出现夹紧力减少、工具从支架上脱落、工具无法拆卸或工具架损坏等问题。

Use: For shank tools according to DIN 1835 type A and B and DIN 6535 type HA and HB.

Shanks according to DIN 6535 type HE can only be used together with reduction bushes.

Design: Shank quality h6, Ra min. = 0.3. For $\phi 25$ and $\phi 32$ only type A or HA can be used.

Note:

1. Other designs and sizes are available on request.
2. Toolholder clamping length must be same to size L1-V. If not, problem may happen such as clamping force maybe reduced, tools fall off the holder, tool couldn't be dismantled or toolholder damage and so on.

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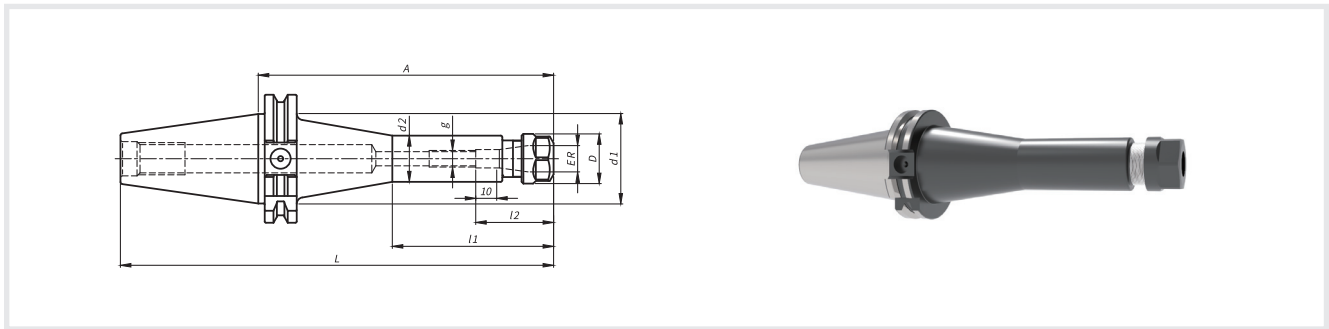
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ER/ESX 11/16弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 11/16 with internal thread



No.	Model	Size	ER	A	d1	d2	D	l1	l2	g	L	kg
698.0261.292	JT40-ER11-63	40	ER11(0.5-7)	63	-	18.5	19	-	18	M6	131.4	0.9
698.0262.292	JT40-ER11-100	40	ER11(0.5-7)	100	-	18.5	19	-	18	M6	168.4	1.0
640.0418.040	JT40-ER11-200	40	ER11(0.5-7)	200	-	18.5	19	-	18	M6	268.4	1.2
698.0251.292	JT40-ER16-63	40	ER16(0.5-10)	63	-	28	28	-	27	M12	131.4	1.0
698.0252.292	JT40-ER16-100	40	ER16(0.5-10)	100	-	28	28	-	27	M12	168.4	1.2
698.0253.292	JT40-ER16-160	40	ER16(0.5-10)	160	46	28	28	85	27	M12	228.4	1.4
640.0419.040	JT40-ER16-200	40	ER16(0.5-10)	200	46	28	28	85	27	M12	268.4	1.6
698.0251.291	JT50-ER16-100	50	ER16(0.5-10)	100	-	28	28	-	27	M12	201.65	3.0
698.0252.291	JT50-ER16-160	50	ER16(0.5-10)	160	78	28	28	85	27	M12	261.65	3.2
640.0420.040	JT50-ER16-200	50	ER16(0.5-10)	200	78	28	28	85	27	M10	301.65	3.4

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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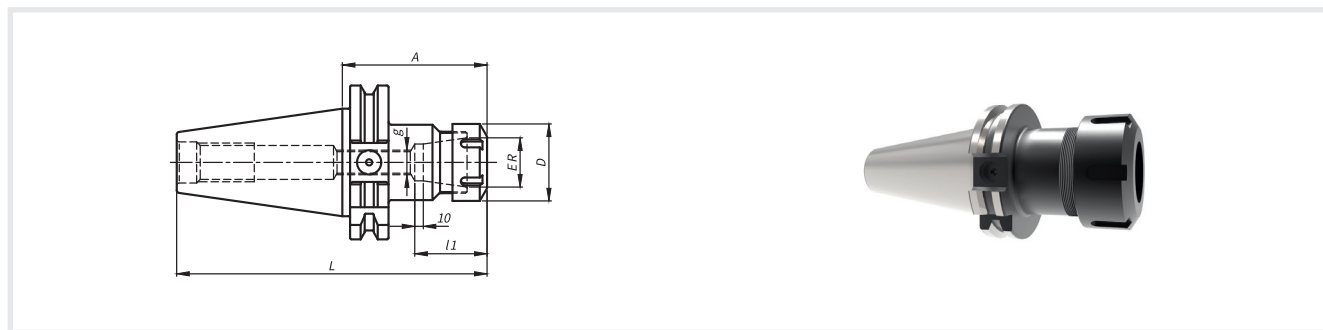
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ER/ESX 20/25/32/40弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 20/25/32/40 with internal thread



No.	Model	Size	ER	A	D	l1	g	L	kg
640.0056.041	JT40-ER20-70	40	ER20(1-13)	70	34	40	M12	138.3	1.2
640.0057.041	JT40-ER20-100	40	ER20(1-13)	100	34	40	M12	168.3	1.4
640.0058.041	JT40-ER20-120	40	ER20(1-13)	120	34	40	M12	188.3	1.5
640.0059.041	JT40-ER20-160	40	ER20(1-13)	160	34	40	M12	228.3	1.8
640.0060.041	JT40-ER20-200	40	ER20(1-13)	200	34	40	M12	268.3	2.1
640.0061.041	JT40-ER25-70	40	ER25(1-16)	70	42	43	M16	138.3	1.4
640.0062.041	JT40-ER25-100	40	ER25(1-16)	100	42	43	M16	168.3	1.7
640.0063.041	JT40-ER25-120	40	ER25(1-16)	120	42	43	M16	188.3	1.9
640.0064.041	JT40-ER25-160	40	ER25(1-16)	160	42	43	M16	228.3	2.4
640.0065.041	JT40-ER25-200	40	ER25(1-16)	200	42	43	M16	268.3	2.8
640.0066.041	JT40-ER32-70	40	ER32(2-20)	70	50	47	M16	138.3	1.6
640.0067.041	JT40-ER32-100	40	ER32(2-20)	100	50	47	M16	168.3	2.1
640.0068.041	JT40-ER32-120	40	ER32(2-20)	120	50	47	M16	188.3	2.4
640.0069.041	JT40-ER32-160	40	ER32(2-20)	160	50	47	M16	228.3	3.0
640.0070.041	JT40-ER32-200	40	ER32(2-20)	200	50	47	M16	268.3	3.6
640.0071.041	JT40-ER40-80	40	ER40(3-26)	80	63	53	M16	148.3	2.3
640.0072.041	JT40-ER40-120	40	ER40(3-26)	120	63	53	M16	188.3	3.3
640.0073.041	JT40-ER40-160	40	ER40(3-26)	160	63	53	M16	228.3	4.3
640.0074.041	JT40-ER40-200	40	ER40(3-26)	200	63	53	M16	268.3	5.3
640.0075.041	JT50-ER20-70	50	ER20(1-13)	70	34	40	M12	171.65	3.0
640.0076.041	JT50-ER20-100	50	ER20(1-13)	100	34	40	M12	201.65	3.2
640.0077.041	JT50-ER20-120	50	ER20(1-13)	120	34	40	M12	221.65	3.3
640.0078.041	JT50-ER20-160	50	ER20(1-13)	160	34	40	M12	261.65	3.6
640.0079.041	JT50-ER20-200	50	ER20(1-13)	200	34	40	M12	301.65	3.9
640.0080.041	JT50-ER25-70	50	ER25(1-16)	70	42	43	M16	171.65	3.2
640.0081.041	JT50-ER25-100	50	ER25(1-16)	100	42	43	M16	201.65	3.5
640.0082.041	JT50-ER25-120	50	ER25(1-16)	120	42	43	M16	221.65	3.7
640.0083.041	JT50-ER25-160	50	ER25(1-16)	160	42	43	M16	261.65	4.1
640.0084.041	JT50-ER25-200	50	ER25(1-16)	200	42	43	M16	301.65	4.6

No.	Model	Size	ER	A	D	l1	g	L	kg
640.0085.041	JT50-ER32-70	50	ER32(2-20)	70	50	47	M16	171.65	3.4
640.0086.041	JT50-ER32-100	50	ER32(2-20)	100	50	47	M16	201.65	3.8
640.0087.041	JT50-ER32-120	50	ER32(2-20)	120	50	47	M16	221.65	4.2
640.0088.041	JT50-ER32-160	50	ER32(2-20)	160	50	47	M16	261.65	4.8
640.0089.041	JT50-ER32-200	50	ER32(2-20)	200	50	47	M16	301.65	5.4
640.0090.041	JT50-ER40-80	50	ER40(3-26)	80	63	53	M16	181.65	4.1
640.0091.041	JT50-ER40-120	50	ER40(3-26)	120	63	53	M16	221.65	5.1
640.0092.041	JT50-ER40-160	50	ER40(3-26)	160	63	53	M16	261.65	6.1
640.0093.041	JT50-ER40-200	50	ER40(3-26)	200	63	53	M16	301.65	7.0
640.0094.041	JT60-ER25-100	60	ER25(1-16)	100	42	43	M16	261.8	10.1
640.0095.041	JT60-ER25-160	60	ER25(1-16)	160	42	43	M16	321.8	10.8
640.0096.041	JT60-ER25-200	60	ER25(1-16)	200	42	43	M16	361.8	11.2
640.0097.041	JT60-ER32-100	60	ER32(2-20)	100	50	47	M16	261.8	10.5
640.0098.041	JT60-ER32-160	60	ER32(2-20)	160	50	47	M16	321.8	11.4
640.0099.041	JT60-ER32-200	60	ER32(2-20)	200	50	47	M16	361.8	12.0
640.0100.041	JT60-ER40-100	60	ER40(3-26)	100	63	53	M16	261.8	11.2
640.0101.041	JT60-ER40-160	60	ER40(3-26)	160	63	53	M16	321.8	12.7
640.0102.041	JT60-ER40-200	60	ER40(3-26)	200	63	53	M16	361.8	13.7

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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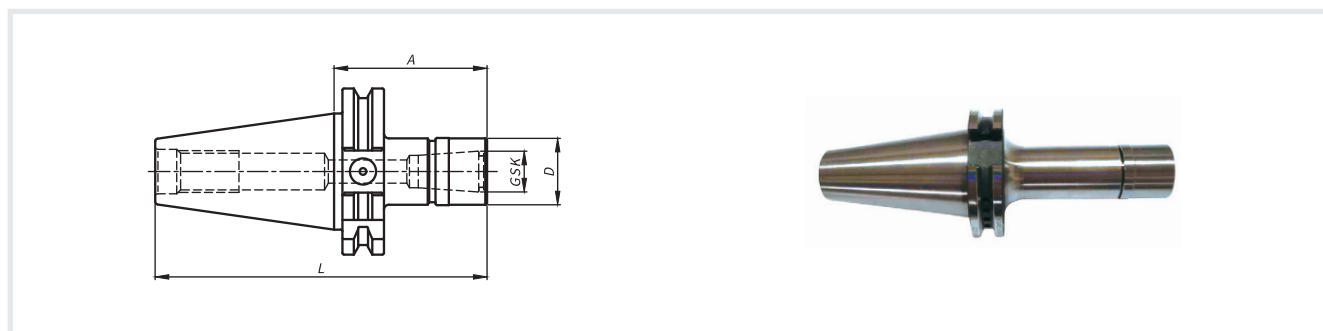
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GSK高精度弹簧夹头刀柄

Collet Chucks GSK6/10/16/20/25



No.	Model	Size	GSK	A	D	L	Kg
440.0001.042	JT40-GSK6-63	40	GSK6 (3-6)	63	19.5	131.4	0.9
440.0002.042	JT40-GSK6-100	40	GSK6 (3-6)	100	19.5	168.4	1.0
440.0003.042	JT40-GSK10-63	40	GSK10 (2-10)	63	27.5	131.4	1.0
440.0004.042	JT40-GSK10-100	40	GSK10 (2-10)	100	27.5	168.4	1.2
440.0005.042	JT40-GSK10-160	40	GSK10 (2-10)	160	27.5	228.4	1.4
440.0170.042	JT40-GSK13-63	40	GSK13 (3-13)	63	35	131.4	1.1
440.0171.042	JT40-GSK13-100	40	GSK13 (3-13)	100	35	168.4	1.4
440.0172.042	JT40-GSK13-160	40	GSK13 (3-13)	160	35	228.4	1.8
440.0129.042	JT40-GSK16-70	40	GSK16 (3-16)	70	40	138.4	1.3
440.0006.042	JT40-GSK16-100	40	GSK16 (3-16)	100	40	168.4	1.5
440.0007.042	JT40-GSK16-160	40	GSK16 (3-16)	160	40	228.4	2.1
440.0008.042	JT40-GSK20-70	40	GSK20 (4-20)	70	48	138.4	1.5
440.0009.042	JT40-GSK20-100	40	GSK20 (4-20)	100	48	168.4	1.9
440.0010.042	JT40-GSK20-160	40	GSK20 (4-20)	160	48	228.4	2.6
440.0011.042	JT40-GSK25-80	40	GSK25 (3-25)	80	55	148.4	1.8
440.0012.042	JT40-GSK25-120	40	GSK25 (3-25)	120	55	188.4	2.5
440.0013.042	JT40-GSK25-160	40	GSK25 (3-25)	160	55	228.4	3.2
440.0014.042	JT50-GSK10-100	50	GSK10 (2-10)	100	27.5	201.65	2.9
440.0015.042	JT50-GSK10-160	50	GSK10 (2-10)	160	27.5	261.65	3.2
440.0173.042	JT50-GSK13-70	50	GSK13 (3-13)	70	35	171.65	2.9
440.0174.042	JT50-GSK13-100	50	GSK13 (3-13)	100	35	201.65	3.2
440.0175.042	JT50-GSK13-160	50	GSK13 (3-13)	160	35	261.65	3.6
440.0016.042	JT50-GSK16-70	50	GSK16 (3-16)	70	40	171.65	3.1
440.0017.042	JT50-GSK16-100	50	GSK16 (3-16)	100	40	201.65	3.3
440.0018.042	JT50-GSK16-160	50	GSK16 (3-16)	160	40	261.65	3.9
440.0019.042	JT50-GSK20-70	50	GSK20 (4-20)	70	48	171.65	3.3
440.0020.042	JT50-GSK20-100	50	GSK20 (4-20)	100	48	201.65	3.6
440.0021.042	JT50-GSK20-160	50	GSK20 (4-20)	160	48	261.65	4.4
440.0022.042	JT50-GSK25-80	50	GSK25 (3-25)	80	55	181.65	3.6
440.0023.042	JT50-GSK25-120	50	GSK25 (3-25)	120	55	221.65	4.3
440.0024.042	JT50-GSK25-160	50	GSK25 (3-25)	160	55	261.65	5.0

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:其他型号和尺寸可按订货要求制作。

括号中数字仅表示夹持刀具柄部尺寸范围,不体现在产品型号中。

Use: For clamping tools with straight shank according to DIN 1835 type A, B and E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Other designs and sizes are available on request.

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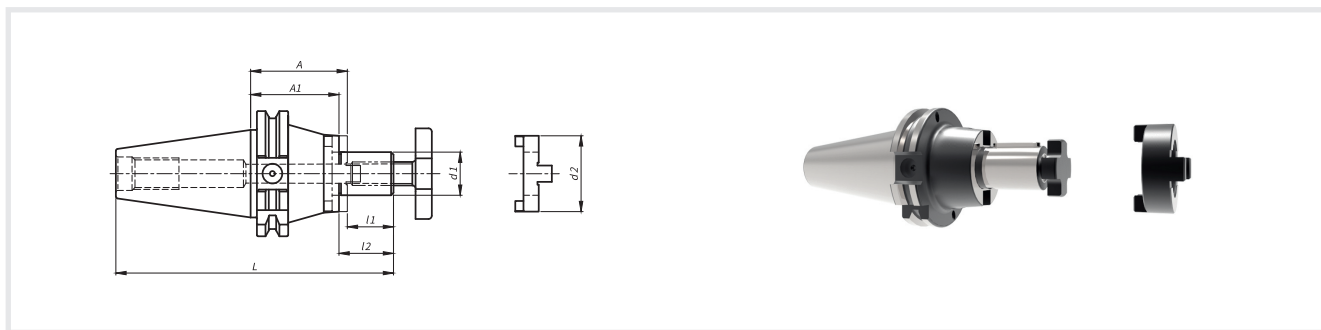
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套式铣刀柄 (带平键和传动环)

Shell End Mill Arbors



No.	Model	Size	d1	A	A1	d2	l3	l4	L	kg
489.0211.292	JT40-SEMC16-55	40	16	55	45	32	17	27	140.4	1.0
489.0231.292	JT40-SEMC16-100	40	16	100	90	32	17	27	185.4	1.3
489.0212.292	JT40-SEMC22-55	40	22	55	43	40	19	31	142.4	1.1
489.0232.292	JT40-SEMC22-100	40	22	100	88	40	19	31	187.4	1.6
489.0213.292	JT40-SEMC27-55	40	27	55	43	48	21	33	144.4	1.3
489.0233.292	JT40-SEMC27-100	40	27	100	88	48	21	33	189.4	1.9
489.0204.292	JT40-SEMC32-60	40	32	60	46	58	24	38	152.4	1.6
489.0234.292	JT40-SEMC32-100	40	32	100	86	58	24	38	192.4	2.4
489.0205.292	JT40-SEMC40-60	40	40	60	46	70	27	41	155.4	2.0
489.0201.291	JT50-SEMC16-55	50	16	55	45	32	17	27	173.65	2.8
489.0202.291	JT50-SEMC22-55	50	22	55	43	40	19	31	175.65	2.9
489.0232.291	JT50-SEMC22-100	50	22	100	88	40	19	31	220.65	3.4
489.0203.291	JT50-SEMC27-55	50	27	55	43	48	21	33	177.65	3.1
489.0233.291	JT50-SEMC27-100	50	27	100	88	48	21	33	222.65	3.7
489.0204.291	JT50-SEMC32-55	50	32	55	41	58	24	38	180.65	3.3
489.0234.291	JT50-SEMC32-100	50	32	100	86	58	24	38	225.65	4.2
489.0205.291	JT50-SEMC40-55	50	40	55	41	70	27	41	183.65	3.7
489.0235.291	JT50-SEMC40-100	50	40	100	86	70	27	41	228.65	5.0
489.0206.291	JT50-SEMC50-70	50	50	70	54	90	30	46	201.65	5.1

规格型号:用于夹持轴向平键或端面键驱动的面铣刀。

Use: For clamping shell end mills and milling cutters with longitudinal slot or tenon drive.

设计:带有中心冷却功能,传动环符合DIN 138。

Design: Central boring for coolant supply. Cutter drive according to DIN 138.

出厂标准产品包括紧固螺钉、带有螺孔的平键和传动环等。

Standard Specification: Cutter retaining screw, feather key with withdrawal thread and drive ring included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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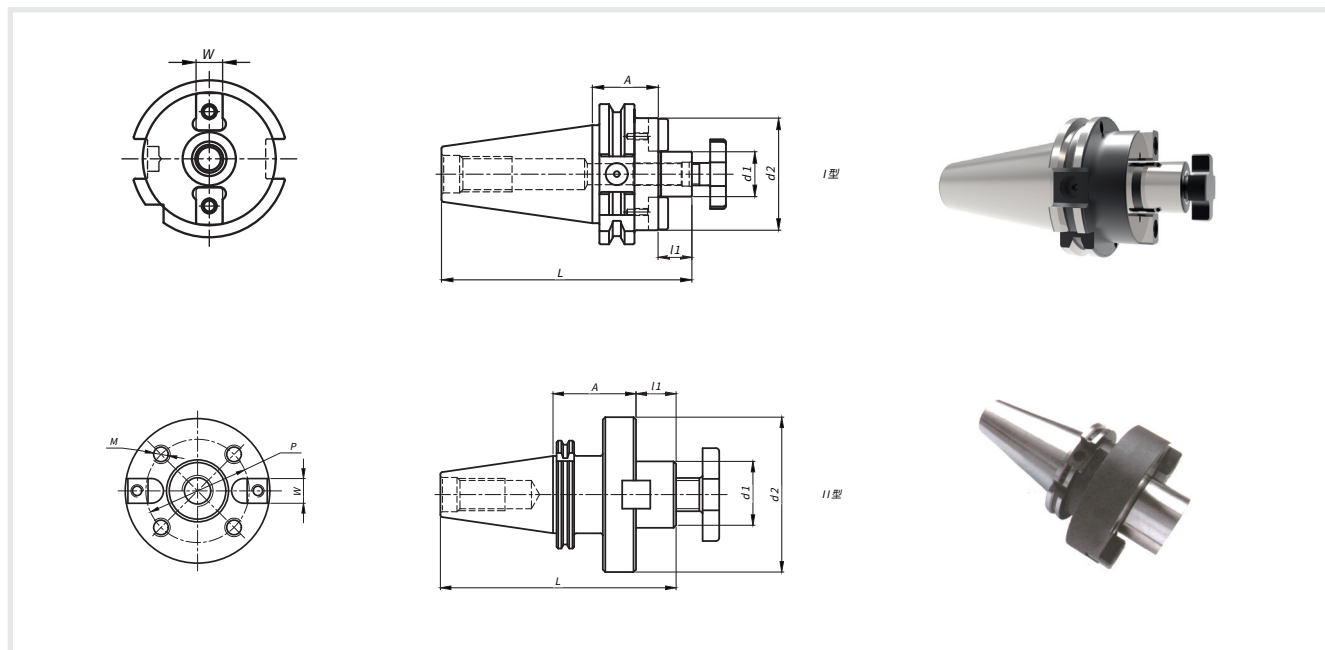
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端铣刀柄

Shell End Mill Arbors with enlarged contact diameter



No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
579.0205.292	JT40-FMB16-35	40	16	35	40	17	120.3	-	8	M8(SW6)	—	1.0
540.0156.004	JT40-FMB16-60	40	16	60	40	17	145.3	-	8	M8(SW6)	—	1.3
540.0157.004	JT40-FMB16-90	40	16	90	40	17	175.3	-	8	M8(SW6)	—	1.5
540.0158.004	JT40-FMB16-150	40	16	150	40	17	235.3	-	8	M8(SW6)	—	2.1
579.0201.292	JT40-FMB22-35	40	22	35	50	19	122.3	-	10	M10(SW8)	—	1.1
540.0023.004	JT40-FMB22-90	40	22	90	50	19	177.3	-	10	M10(SW8)	—	2.0
540.0159.004	JT40-FMB22-150	40	22	150	50	19	237.3	-	10	M10(SW8)	—	2.9
540.0160.004	JT40-FMB22-200	40	22	200	50	19	287.3	-	10	M10(SW8)	—	3.7
579.0202.292	JT40-FMB27-35	40	27	35	60	21	124.3	-	12	M12(SW10)	R-D27	1.3
540.0025.004	JT40-FMB27-90	40	27	90	60	21	179.3	-	12	M12(SW10)	R-D27	2.5
540.0161.004	JT40-FMB27-150	40	27	150	60	21	239.3	-	12	M12(SW10)	R-D27	3.8
540.0162.004	JT40-FMB27-200	40	27	200	60	21	289.3	-	12	M12(SW10)	R-D27	4.9
579.0203.292	JT40-FMB32-50	40	32	50	80	24	142.3	-	14	M16(SW14)	R-D32	2.2
540.0027.004	JT40-FMB32-90	40	32	90	80	24	182.3	-	14	M16(SW14)	R-D32	3.8
540.0163.004	JT40-FMB32-150	40	32	150	80	24	242.3	-	14	M16(SW14)	R-D32	6.1
540.0164.004	JT40-FMB32-200	40	32	200	80	24	292.3	-	14	M16(SW14)	R-D32	8.1
540.0028.004	JT40-FMC40-60	40	40	60P	90	27	155.3	M12	16	M20(SW17)	R-D40	3.1

No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
540.0165.004	JT50-FMB16-35	50	16	35	40	17	153.65	-	8	M8(SW6)	—	2.8
540.0166.004	JT50-FMB16-90	50	16	90	40	17	208.65	-	8	M8(SW6)	—	3.3
540.0167.004	JT50-FMB16-150	50	16	150	40	17	268.65	-	8	M8(SW6)	—	3.9
579.0201.291	JT50-FMB22-35	50	22	35	50	19	155.65	-	10	M10(SW8)	—	2.9
540.0089.004	JT50-FMB22-90	50	22	90	50	19	210.65	-	10	M10(SW8)	—	3.8
540.0031.004	JT50-FMB22-150	50	22	150	50	19	270.65	-	10	M10(SW8)	—	4.7
540.0168.004	JT50-FMB22-200	50	22	200	50	19	320.65	-	10	M10(SW8)	—	5.4
540.0169.004	JT50-FMB22-250	50	22	250	50	19	370.65	-	10	M10(SW8)	—	6.2
579.0202.291	JT50-FMB27-40	50	27	40	60	21	162.65	-	12	M12(SW10)	R-D27	3.2
540.0033.004	JT50-FMB27-90	50	27	90	60	21	212.65	-	12	M12(SW10)	R-D27	4.3
540.0034.004	JT50-FMB27-150	50	27	150	60	21	272.65	-	12	M12(SW10)	R-D27	5.6
540.0170.004	JT50-FMB27-200	50	27	200	60	21	322.65	-	12	M12(SW10)	R-D27	6.7
540.0171.004	JT50-FMB27-250	50	27	250	60	21	372.65	-	12	M12(SW10)	R-D27	7.8
579.0203.291	JT50-FMB32-50	50	32	50	80	24	175.65	-	14	M16(SW14)	R-D32	4.0
540.0036.004	JT50-FMB32-120	50	32	120	80	24	245.65	-	14	M16(SW14)	R-D32	6.7
540.0172.004	JT50-FMB32-200	50	32	200	80	24	325.65	-	14	M16(SW14)	R-D32	9.9
540.0038.004	JT50-FMC40-105	50	40	105P	90	27	233.65	M12	16	M20(SW17)	R-D40	7.2
540.0037.004	JT50-FMC40-75	50	40	75P	90	27	203.65	M12	16	M20(SW17)	R-D40	5.7
540.0039.004	JT50-FMC60-75	50	60	75P	129	40	216.65	M16	25.4	—	—	10.3
540.0040.004	JT60-FMC40-75	60	40	75P	90	27	263.8	M12	16	M20(SW17)	R-D40	12.3
540.0041.004	JT60-FMC60-75	60	60	75P	140	40	276.8	M16	25.4	—	—	16.9
540.0042.004	JT60-FMD60-75	60	60	75S	220	40	276.8	M16+M20	25.4	—	—	26.8

使用方向:用于夹持带有端面键槽的面铣刀。

Use For:clamping shell end mills and milling cutters with tenon drive.

设计:带有中心冷却功能, φ40和φ60规格需要4个或8个螺钉夹紧, 刀具和主轴的安装尺寸符合DIN 2079标准。

Design: Central boring for coolant supply.Clamping 40 and 60 with 4 threaded holes for holding cutters with tool holding according to DIN 2079.

出厂标准产品包括紧固螺钉和传动键。

Standard Specification: Cutter retaining screw and tightened drive keys included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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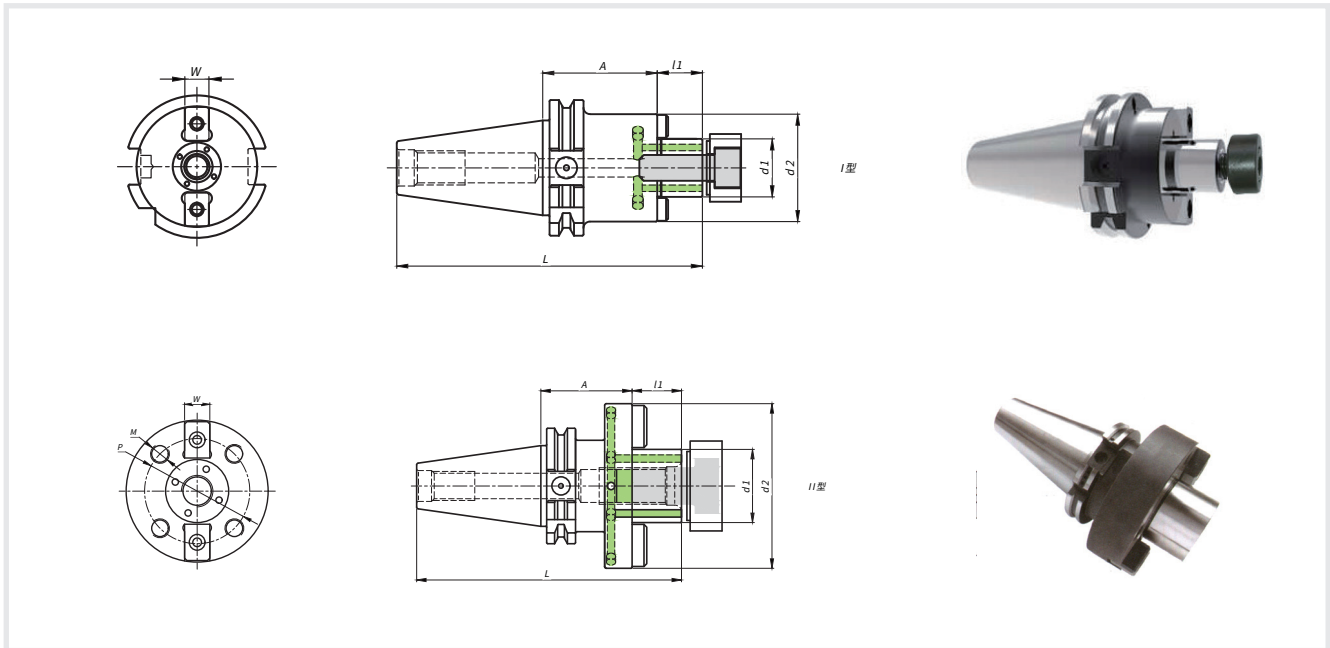
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端铣刀柄(带内冷)

Shell End Mill Arbors with coolant



No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
579.4205.292	JT40-FMB16-35C	40	16	35	40	17	120.3	-	8	M8(SW6)	—	1.0
540.0173.004	JT40-FMB16-60C	40	16	60	40	17	145.3	-	8	M8(SW6)	—	1.3
540.0174.004	JT40-FMB16-90C	40	16	90	40	17	175.3	-	8	M8(SW6)	—	1.5
540.0175.004	JT40-FMB16-150C	40	16	150	40	17	235.3	-	8	M8(SW6)	—	2.1
579.4201.292	JT40-FMB22-35C	40	22	35	50	19	122.3	-	10	M10(SW8)	—	1.1
540.0176.004	JT40-FMB22-90C	40	22	90	50	19	177.3	-	10	M10(SW8)	—	2.0
540.0177.004	JT40-FMB22-150C	40	22	150	50	19	237.3	-	10	M10(SW8)	—	2.9
540.0178.004	JT40-FMB22-200C	40	22	200	50	19	287.3	-	10	M10(SW8)	—	3.7
579.4202.292	JT40-FMB27-35C	40	27	35	60	21	124.3	-	12	M12(SW10)	R-D27	1.3
540.0179.004	JT40-FMB27-90C	40	27	90	60	21	179.3	-	12	M12(SW10)	R-D27	2.5
540.0180.004	JT40-FMB27-150C	40	27	150	60	21	239.3	-	12	M12(SW10)	R-D27	3.8
540.0181.004	JT40-FMB27-200C	40	27	200	60	21	289.3	-	12	M12(SW10)	R-D27	4.9
579.4203.292	JT40-FMB32-50C	40	32	50	80	24	142.3	-	14	M16(SW14)	R-D32	2.2
540.0182.004	JT40-FMB32-90C	40	32	90	80	24	182.3	-	14	M16(SW14)	R-D32	3.8
540.0183.004	JT40-FMB32-150C	40	32	150	80	24	242.3	-	14	M16(SW14)	R-D32	6.1
540.0184.004	JT40-FMB32-200C	40	32	200	80	24	292.3	-	14	M16(SW14)	R-D32	8.1
579.4204.292	JT40-FMC40-50C	40	40	50	89	27	145.3	M12	16	M20(SW17)	R-D40	2.6
540.0185.004	JT40-FMC40-60C	40	40	60	90	27	155.3	M12	16	M20(SW17)	R-D40	3.1
540.0186.004	JT50-FMB16-35C	50	16	35	40	17	153.65	-	8	M8(SW6)	—	2.8
540.0187.004	JT50-FMB16-90C	50	16	90	40	17	208.65	-	8	M8(SW6)	—	3.3
540.0188.004	JT50-FMB16-150C	50	16	150	40	17	268.65	-	8	M8(SW6)	—	3.9
579.7201.291	JT50-FMB22-35C	50	22	35	50	19	155.65	-	10	M10(SW8)	—	2.9

No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
540.0189.004	JT50-FMB22-90C	50	22	90	50	19	210.65	-	10	M10(SW8)	—	3.8
540.0190.004	JT50-FMB22-150C	50	22	150	50	19	270.65	-	10	M10(SW8)	—	4.7
540.0191.004	JT50-FMB22-200C	50	22	200	50	19	320.65	-	10	M10(SW8)	—	5.4
540.0192.004	JT50-FMB22-250C	50	22	250	50	19	370.65	-	10	M10(SW8)	—	6.2
579.7202.291	JT50-FMB27-40C	50	27	40	60	21	162.65	-	12	M12(SW10)	R-D27	3.2
540.0193.004	JT50-FMB27-90C	50	27	90	60	21	212.65	-	12	M12(SW10)	R-D27	4.3
540.0194.004	JT50-FMB27-150C	50	27	150	60	21	272.65	-	12	M12(SW10)	R-D27	5.6
540.0195.004	JT50-FMB27-200C	50	27	200	60	21	322.65	-	12	M12(SW10)	R-D27	6.7
540.0196.004	JT50-FMB27-250C	50	27	250	60	21	372.65	-	12	M12(SW10)	R-D27	7.8
579.7203.291	JT50-FMB32-50C	50	32	50	80	24	175.65	-	14	M16(SW14)	R-D32	4.0
540.0197.004	JT50-FMB32-120C	50	32	120	80	24	245.65	-	14	M16(SW14)	R-D32	6.7
540.0198.004	JT50-FMB32-200C	50	32	200	80	24	325.65	-	14	M16(SW14)	R-D32	9.9
540.0199.004	JT50-FMC40-75C	50	40	75	90	27	203.65	M12	16	M20(SW17)	R-D40	5.7
540.0200.004	JT50-FMC40-105C	50	40	105	90	27	233.65	M12	16	M20(SW17)	R-D40	7.2
540.0201.004	JT50-FMC60-75C	50	60	75	140	40	216.65	M16	25.4	M20(SW17)	—	10.3

使用方向:用于夹持带有端面键槽的面铣刀。

Use For:clamping shell end mills and milling cutters with tenon drive.

设计:带有中心冷却功能,φ40和φ60规格需要4个或8个螺钉夹紧,工具和主轴的安装尺寸符合DIN 2079标准。

Design: Central boring for coolant supply.Clamping 40 and 60 with 4 threaded holes for holding cutters with tool holding according to DIN 2079.

出厂标准产品包括紧固螺钉和传动键。

Standard Specification: Cutter retaining screw and tightened drive keys included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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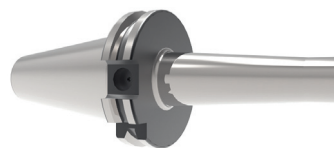
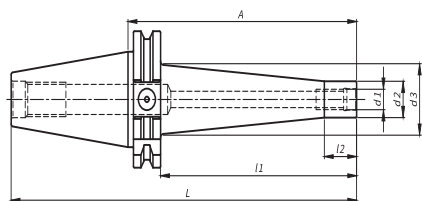
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KFS模块式铣刀柄

Holders for screw-in milling cutters



No.	Model	Size	d1	A	d2	d3	l1	l2	L	kg
571.0001.292	JT40-KFS8-44	40	M8	44	12.8	15	25.0	12	112.4	0.8
571.0011.292	JT40-KFS8-69	40	M8	69	12.8	23	50.0	12	137.4	0.9
571.0021.292	JT40-KFS8-94	40	M8	94	12.8	23	75.0	12	162.4	0.9
571.0002.292	JT40-KFS10-44	40	M10	44	17.8	20	25.0	12	112.4	0.9
571.0012.292	JT40-KFS10-69	40	M10	69	17.8	25	50.0	12	137.4	0.9
571.0022.292	JT40-KFS10-94	40	M10	94	17.8	25	75.0	12	162.4	1.0
571.0032.292	JT40-KFS10-119	40	M10	119	17.8	32	100.0	12	187.4	1.0
571.0042.292	JT40-KFS10-169	40	M10	169	17.8	35	150.0	12	237.4	1.1
571.0003.292	JT40-KFS12-44	40	M12	44	20.8	24	25.0	12	112.4	0.9
571.0013.292	JT40-KFS12-69	40	M12	69	20.8	28	50.0	12	137.4	1.0
571.0023.292	JT40-KFS12-94	40	M12	94	20.8	31	75.0	12	162.4	1.0
571.0033.292	JT40-KFS12-119	40	M12	119	20.8	33	100.0	12	187.4	1.1
571.0043.292	JT40-KFS12-169	40	M12	169	20.8	40	150.0	12	237.4	1.2
571.0004.292	JT40-KFS16-44	40	M16	44	28.8	-	25.0	-	112.4	0.9
571.0014.292	JT40-KFS16-69	40	M16	69	28.8	34	50.0	12	137.4	1.1
571.0024.292	JT40-KFS16-94	40	M16	94	28.8	34	75.0	12	162.4	1.2
571.0034.292	JT40-KFS16-119	40	M16	119	28.8	36	100.0	12	187.4	1.3
571.0044.292	JT40-KFS16-169	40	M16	169	28.8	42	150.0	12	237.4	1.6
571.0011.291	JT50-KFS8-69	50	M8	69	12.8	23	50.0	12	170.7	2.7
571.0012.291	JT50-KFS10-69	50	M10	69	17.8	25	50.0	12	170.7	2.7
571.0022.291	JT50-KFS10-94	50	M10	94	17.8	25	75.0	12	195.7	2.7
571.0032.291	JT50-KFS10-119	50	M10	119	17.8	32	100.0	12	220.7	2.8
571.0042.291	JT50-KFS10-169	50	M10	169	17.8	35	150.0	12	270.7	2.9
571.0013.291	JT50-KFS12-69	50	M12	69	20.8	28	50.0	12	170.7	2.7
571.0023.291	JT50-KFS12-94	50	M12	94	20.8	31	75.0	12	195.7	2.8
571.0033.291	JT50-KFS12-119	50	M12	119	20.8	33	100.0	12	220.7	2.9
571.0043.291	JT50-KFS12-169	50	M12	169	20.8	40	150.0	12	270.7	3.0
571.0014.291	JT50-KFS16-69	50	M16	69	28.8	34	50.0	12	170.7	2.9
571.0024.291	JT50-KFS16-94	50	M16	94	28.8	34	75.0	12	195.7	3.0
571.0034.291	JT50-KFS16-119	50	M16	119	28.8	36	100.0	12	220.7	3.1
571.0044.291	JT50-KFS16-169	50	M16	169	28.8	42	150.0	12	270.7	3.4

使用方向:用于夹紧以螺纹连接的铣刀。

Use:For holding the milling tools with thread.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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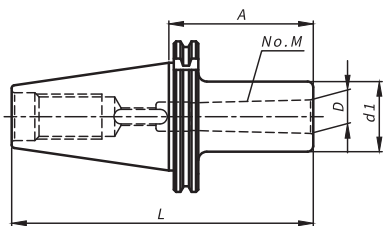
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带扁尾莫氏圆锥孔刀柄

Reduction Sleeves for morse taper with tang



DIN
69871

Form
A



G6.3
8.000mm²

CAD

No.	Model	Size	M	D	A	d1	L	kg
454.0001.292	JT40-M1-50	40	1	12.065	50	25	118.4	0.9
440.0002.050	JT40-M1-120	40	1	12.065	120	25	188.4	1.2
454.0002.292	JT40-M2-50	40	2	17.78	50	32	118.4	1.0
440.0004.050	JT40-M2-120	40	2	17.78	120	32	188.4	1.4
454.0003.292	JT40-M3-70	40	3	23.825	70	40	138.4	1.3
440.0006.050	JT40-M3-135	40	3	23.825	135	40	203.4	1.8
454.0004.292	JT40-M4-95	40	4	31.267	95	63	163.4	2.5
440.0008.050	JT40-M4-165	40	4	31.267	165	63	233.4	4.0
454.0001.291	JT50-M1-45	50	1	12.065	45	25	146.7	2.7
440.0010.050	JT50-M1-120	50	1	12.065	120	25	221.7	3.0
454.0002.291	JT50-M2-60	50	2	17.78	60	32	161.7	2.8
440.0012.050	JT50-M2-135	50	2	17.78	135	32	236.7	3.3
454.0003.291	JT50-M3-65	50	3	23.825	65	40	166.7	3.0
440.0014.050	JT50-M3-150	50	3	23.825	150	40	251.7	3.8
454.0004.291	JT50-M4-95	50	4	31.267	95	48	196.7	3.6
440.0016.050	JT50-M4-180	50	4	31.267	180	48	281.7	4.7
454.0005.291	JT50-M5-105	50	5	44.399	105	63	206.7	4.5
440.0018.050	JT50-M5-210	50	5	44.399	210	63	311.7	6.8
440.0027.050	JT60-M2-190	60	2	17.78	190	32	351.8	10.2
440.0019.050	JT60-M3-190	60	3	23.825	190	40	351.8	10.8
440.0020.050	JT60-M3-250	60	3	23.825	250	40	411.8	11.3
440.0021.050	JT60-M4-210	60	4	31.267	210	50	371.8	11.9
440.0022.050	JT60-M4-270	60	4	31.267	270	50	431.8	12.7
440.0023.050	JT60-M5-240	60	5	44.399	240	63	401.8	14.1
440.0024.050	JT60-M5-300	60	5	44.399	300	63	461.8	15.4
440.0025.050	JT60-M6-170	60	6	63.348	170	90	331.8	16.0
440.0026.050	JT60-M6-310	60	6	63.348	310	90	471.8	22.3

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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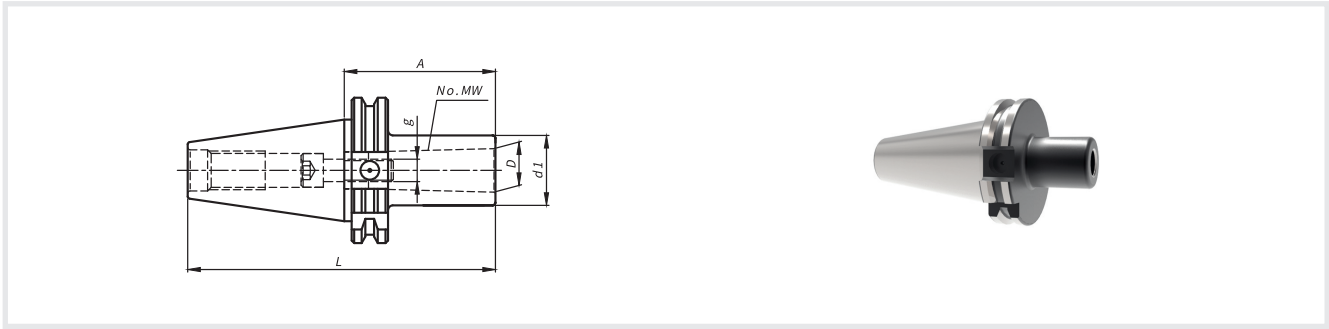
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无扁尾莫氏圆锥孔刀柄

Reduction Sleeves for morse taper without thread



No.	Model	Size	MW	D	A	d1	g	L	kg
458.0001.292	JT40-MW1-50	40	1	12.065	50	25	M6	118.4	0.9
458.0002.292	JT40-MW2-50	40	2	17.78	50	32	M10	118.4	1.0
458.0003.292	JT40-MW3-70	40	3	23.825	70	40	M12	138.4	1.3
440.0004.055	JT40-MW4-95	40	4	31.267	95	63	M16	163.4	2.5
458.0001.291	JT50-MW1-45	50	1	12.065	45	25	M6	146.65	2.7
458.0002.291	JT50-MW2-60	50	2	17.78	60	32	M10	161.65	2.8
458.0003.291	JT50-MW3-65	50	3	23.825	65	40	M12	166.65	3.0
440.0010.055	JT50-MW4-70	50	4	31.267	70	63	M16	171.65	3.7
440.0008.055	JT50-MW4-100	50	4	31.267	100	63	M16	201.65	4.4
440.0011.055	JT50-MW5-100	50	5	44.399	100	78	M20	201.65	5.3
440.0009.055	JT50-MW5-130	50	5	44.399	130	78	M20	231.65	6.3
440.0016.055	JT60-MW2-100	60	2	17.78	100	32	M10	261.8	9.7
440.0012.055	JT60-MW3-100	60	3	23.825	100	40	M12	261.8	10.0
440.0013.055	JT60-MW4-100	60	4	31.267	100	63	M16	261.8	11.0
440.0014.055	JT60-MW5-100	60	5	44.399	100	78	M20	261.8	12.0
440.0015.055	JT60-MW6-150	60	6	63.348	150	90	M24	311.8	15.1

说明:包括紧固螺钉和螺纹挡环。

Standard Specification:Retaining screws and threaded rings are included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES
配件

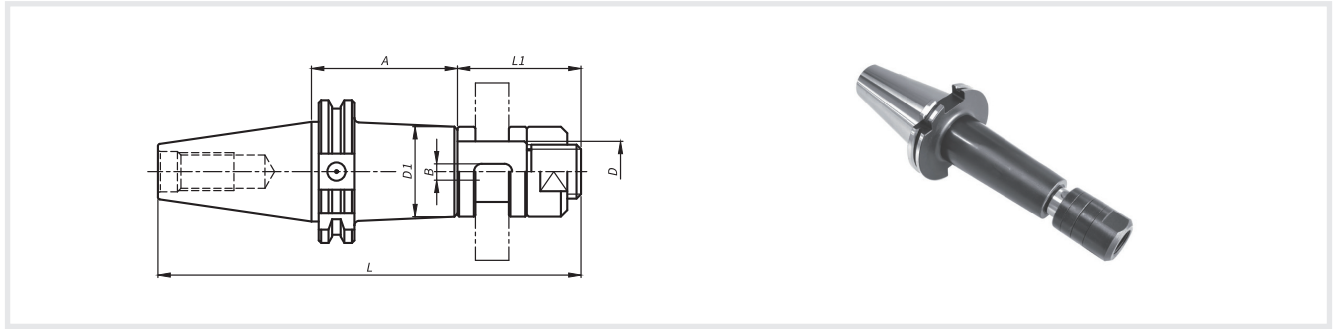


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三面刃铣刀柄

Side milling Cutter Arbor



No.	Model	Size	D	D1	A	L1	L	B	Rings	kg
440.0001.000	JT40-SCA16-75	40	16	26	75	46	189.4	4	3J1-310-16	1.2
440.0002.000	JT40-SCA16-105	40	16	26	105	46	219.4	4	3J1-310-16	1.3
440.0003.000	JT40-SCA22-75	40	22	34	75	51	194.4	6	3J1-310-22	1.5
440.0004.000	JT40-SCA22-120	40	22	34	120	51	239.4	6	3J1-310-22	1.8
440.0005.000	JT40-SCA27-75	40	27	40	75	55	198.4	7	3J1-310-27	1.8
440.0006.000	JT40-SCA27-120	40	27	40	120	55	243.4	7	3J1-310-27	2.2
440.0007.000	JT40-SCA32-90	40	32	46	90	60	218.4	8	3J1-310-32	2.4
440.0008.000	JT50-SCA16-90	50	16	26	90	46	237.65	4	3J1-310-16	3.0
440.0009.000	JT50-SCA16-120	50	16	26	120	46	267.65	4	3J1-310-16	3.2
440.0010.000	JT50-SCA22-90	50	22	34	90	51	242.65	6	3J1-310-22	3.4
440.0011.000	JT50-SCA22-135	50	22	34	135	51	287.65	6	3J1-310-22	3.7
440.0012.000	JT50-SCA27-90	50	27	40	90	55	246.65	7	3J1-310-27	3.7
440.0013.000	JT50-SCA27-135	50	27	40	135	55	291.65	7	3J1-310-27	4.1
440.0014.000	JT50-SCA32-90	50	32	46	90	60	251.65	8	3J1-310-32	4.1
440.0015.000	JT50-SCA32-135	50	32	46	135	60	296.65	8	3J1-310-32	4.7
440.0016.000	JT50-SCA40-90	50	40	55	90	66	257.65	10	3J1-310-40	4.9
440.0017.000	JT50-SCA40-135	50	40	55	135	66	302.65	10	3J1-310-40	5.7
440.0090.000	JT50-SCA50-90	50	50	68	90	85	276.65	12	3J1-310-50	6.6
440.0091.000	JT50-SCA50-135	50	50	68	135	85	321.65	12	3J1-310-50	7.8
440.0018.000	JT60-SCA40-135	60	40	55	135	66	362.8	10	3J1-310-40	12.3
440.0019.000	JT60-SCA50-135	60	50	68	135	85	381.8	12	3J1-310-50	14.4
440.0020.000	JT60-SCA60-135	60	60	84	135	105	401.8	14	3J1-310-60	17.9

注意:其他型号和尺寸可按订货要求制作。


Note: Other designs and sizes are available on request.

ACCESSORIES

配件

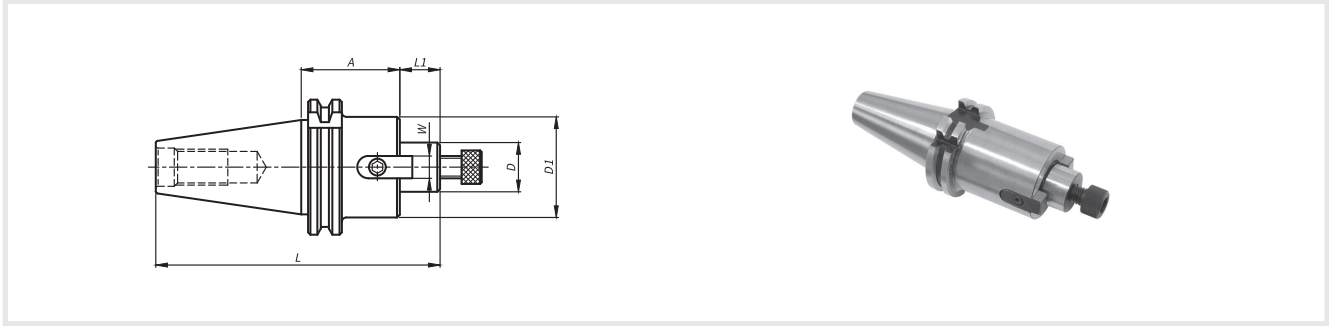
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套式立铣刀柄
Shell End Mill Arbors



No.	Model	Size	D	D1	A	L1	L	W	screw	kg
440.0001.001	JT40-FMH16-75	40	16	32	75	17	160.3	8	M8	1.2
440.0002.001	JT40-FMH16-120	40	16	32	120	17	205.3	8	M8	1.5
440.0003.001	JT40-FMH22-75	40	22	40	75	19	162.3	10	M10	1.4
440.0004.001	JT40-FMH22-120	40	22	40	120	19	207.3	10	M10	1.9
440.0077.001	JT40-FMH22-160	40	22	40	160	19	247.3	10	M10	2.3
440.0078.001	JT40-FMH22-200	40	22	40	200	19	287.3	10	M10	2.7
440.0079.001	JT40-FMH22-250	40	22	40	250	19	337.3	10	M10	3.2
440.0005.001	JT40-FMH27-75	40	27	48	75	21	164.3	12	M12	1.7
440.0006.001	JT40-FMH27-105	40	27	48	105	21	194.3	12	M12	2.1
440.0080.001	JT40-FMH27-160	40	27	48	160	21	249.3	12	M12	2.9
440.0081.001	JT40-FMH27-200	40	27	48	200	21	289.3	12	M12	3.5
440.0082.001	JT40-FMH27-250	40	27	48	250	21	339.3	12	M12	4.2
440.0007.001	JT40-FMH32-75	40	32	58	75	24	167.3	14	M16	2.1
440.0083.001	JT40-FMH32-120	40	32	58	120	24	212.3	14	M16	3.1
440.0084.001	JT40-FMH32-160	40	32	58	160	24	252.3	14	M16	3.9
440.0085.001	JT40-FMH32-200	40	32	58	200	24	292.3	14	M16	4.7
440.0086.001	JT40-FMH32-250	40	32	58	250	24	342.3	14	M16	5.8
440.0008.001	JT50-FMH16-75	50	16	32	75	17	193.65	8	M8	3.0
440.0009.001	JT50-FMH16-120	50	16	32	120	17	238.65	8	M8	3.3
440.0010.001	JT50-FMH22-75	50	22	40	75	19	195.65	10	M10	3.2
440.0011.001	JT50-FMH22-120	50	22	40	120	19	240.65	10	M10	3.7
440.0087.001	JT50-FMH22-160	50	22	40	160	19	280.65	10	M10	4.0
440.0088.001	JT50-FMH22-200	50	22	40	200	19	320.65	10	M10	4.4
440.0089.001	JT50-FMH22-250	50	22	40	250	19	370.65	10	M10	4.9
440.0012.001	JT50-FMH27-75	50	27	48	75	21	197.65	12	M12	3.5
440.0013.001	JT50-FMH27-105	50	27	48	105	21	227.65	12	M12	3.9
440.0090.001	JT50-FMH27-120	50	27	48	120	21	242.65	12	M12	4.1
440.0091.001	JT50-FMH27-160	50	27	48	160	21	282.65	12	M12	4.7
440.0092.001	JT50-FMH27-200	50	27	48	200	21	322.65	12	M12	5.3
440.0093.001	JT50-FMH27-250	50	27	48	250	21	372.65	12	M12	6.0

No.	Model	Size	D	D1	A	L1	L	W	screw	kg
440.0014.001	JT50-FMH32-75	50	32	58	75	24	200.65	14	M16	3.9
440.0094.001	JT50-FMH32-120	50	32	58	120	24	245.65	14	M16	4.8
440.0095.001	JT50-FMH32-160	50	32	58	160	24	285.65	14	M16	5.7
440.0096.001	JT50-FMH32-200	50	32	58	200	24	325.65	14	M16	6.5
440.0097.001	JT50-FMH32-250	50	32	58	250	24	375.65	14	M16	7.5
440.0015.001	JT50-FMH40-75	50	40	70	75	27	203.65	16	M20	4.6
440.0016.001	JT50-FMH50-75	50	50	90	75	30	206.65	18	M24	5.9
440.0017.001	JT60-FMH32-75	60	32	58	75	24	260.8	14	M16	10.6
440.0018.001	JT60-FMH40-90	60	40	70	90	27	278.8	16	M20	11.7
440.0019.001	JT60-FMH50-120	60	50	90	120	30	311.8	18	M24	14.8

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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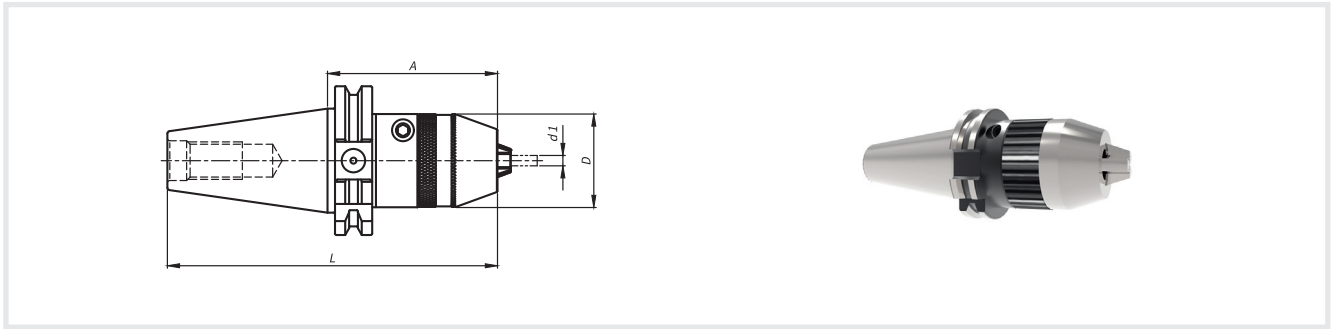
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整体式钻夹头刀柄

Integrated Drill Chuck Arbors whole



DIN
69871

Form
A

No.	Model	Size	d1	A	D	L	kg
490.0010.292	JT40-KPU(1-16)-80	40	1-16	80	50	149	1.7
490.0010.291	JT50-KPU(1-16)-80	50	1-16	80	50	182	3.5

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES
配件

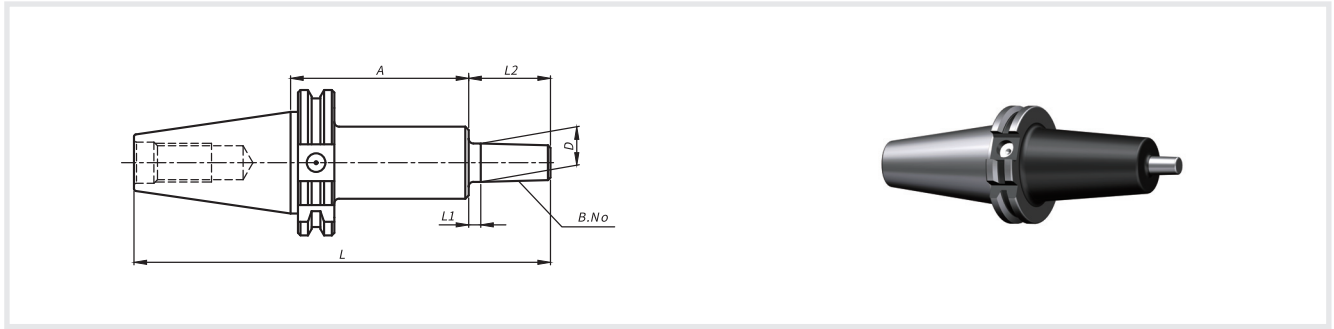
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钻夹头刀柄

Integrated Drill Chuck Arbors



No.	Model	Size	B.No	A	L1	L2	L	D	kg
440.0001.071	JT40-DCB10-45	40	B10	45	3.5	14.5	127.9	10.094	0.8
440.0002.071	JT40-DCB10-90	40	B10	90	3.5	14.5	172.9	10.094	0.9
440.0003.071	JT40-DCB12-45	40	B12	45	3.5	18.5	131.9	12.065	0.8
440.0004.071	JT40-DCB12-90	40	B12	90	3.5	18.5	176.9	12.065	0.9
440.0005.071	JT40-DCB16-45	40	B16	45	5	24	137.4	15.733	0.9
440.0006.071	JT40-DCB16-90	40	B16	90	5	24	182.4	15.733	0.9
440.0007.071	JT40-DCB18-45	40	B18	45	5	32	145.4	17.78	0.9
440.0008.071	JT40-DCB18-90	40	B18	90	5	32	190.4	17.78	1.0
440.0009.071	JT50-DCB10-45	50	B10	45	3.5	14.5	161.2	10.094	2.6
440.0010.071	JT50-DCB10-105	50	B10	105	3.5	14.5	221.2	10.094	2.7
440.0011.071	JT50-DCB12-45	50	B12	45	3.5	18.5	165.2	12.065	2.6
440.0012.071	JT50-DCB12-105	50	B12	105	3.5	18.5	225.2	12.065	2.7
440.0013.071	JT50-DCB16-45	50	B16	45	5	24	170.7	15.733	2.6
440.0014.071	JT50-DCB16-105	50	B16	105	5	24	230.7	15.733	2.7
440.0015.071	JT50-DCB18-45	50	B18	45	5	32	178.7	17.78	2.7
440.0016.071	JT50-DCB18-105	50	B18	105	5	32	238.7	17.78	2.8
440.0017.071	JT60-DCB16-105	60	B16	105	5	24	290.8	15.733	9.4
440.0018.071	JT60-DCB18-105	60	B18	105	5	32	298.8	17.78	9.4

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES

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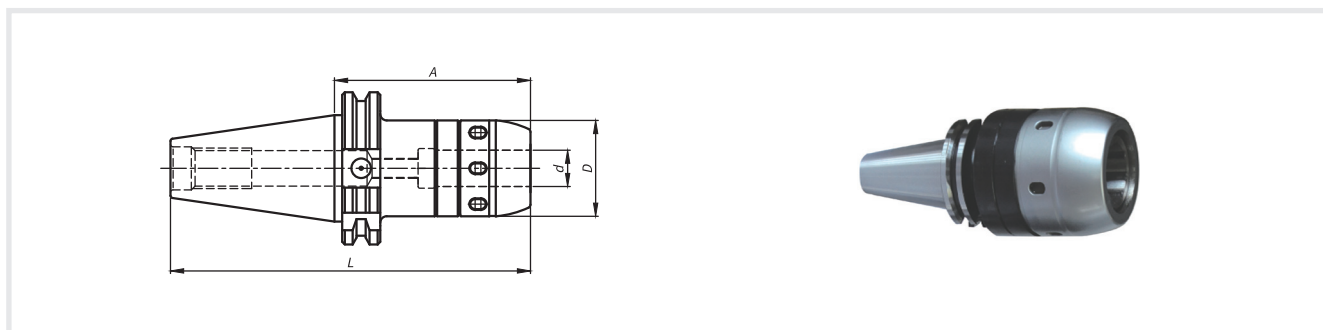
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强力铣夹头刀柄

Strong Chuck Holder For Boring and Milling



No.	Model	Size	d	A	L	D	Bans	kg
740.0321.111	JT40-SC20-110	40	20	110	178.4	58	55-62	2.7
740.0322.111	JT40-SC20-160	40	20	160	228.4	58	55-62	3.7
740.0323.111	JT40-SC20-200	40	20	200	268.4	58	55-62	4.6
740.0324.111	JT40-SC25-110	40	25	110	178.4	65	68-72	3.2
740.0325.111	JT40-SC25-160	40	25	160	228.4	65	68-72	4.5
740.0326.111	JT40-SC25-200	40	25	200	268.4	65	68-72	5.5
740.0327.111	JT40-SC32-110	40	32	110	178.4	73	68-72	3.8
740.0328.111	JT40-SC32-160	40	32	160	228.4	73	68-72	5.5
740.0329.111	JT40-SC32-200	40	32	200	268.4	73	68-72	6.8
740.0330.111	JT50-SC20-110	50	20	110	211.7	58	55-62	4.5
740.0331.111	JT50-SC20-160	50	20	160	261.7	58	55-62	5.5
740.0332.111	JT50-SC20-200	50	20	200	301.7	58	55-62	6.4
740.0333.111	JT50-SC25-110	50	25	110	211.7	65	68-72	5.0
740.0334.111	JT50-SC25-160	50	25	160	261.7	65	68-72	6.3
740.0335.111	JT50-SC25-200	50	25	200	301.7	65	68-72	7.3
740.0336.111	JT50-SC32-110	50	32	110	211.7	73	68-72	5.6
740.0337.111	JT50-SC32-160	50	32	160	261.7	73	68-72	7.2
740.0338.111	JT50-SC32-200	50	32	200	301.7	73	68-72	8.5
740.0339.111	JT50-SC40-120	50	40	120	221.7	88	78-85	7.4
740.0340.111	JT50-SC40-160	50	40	160	261.7	88	78-85	9.3
740.0341.111	JT50-SC40-200	50	40	200	301.7	88	78-85	11.2
740.0285.111	JT50-SC50-120	50	50	120	221.7	105	100-110	9.5
740.0342.111	JT50-SC50-140	50	50	140	241.7	105	100-110	10.8
740.0343.111	JT50-SC50-160	50	50	160	261.7	105	100-110	12.2
740.0344.111	JT50-SC50-200	50	50	200	301.7	105	100-110	14.9
740.0345.111	JT60-SC20-130	60	20	130	291.8	58	55-62	11.6
740.0346.111	JT60-SC20-160	60	20	160	321.8	58	55-62	12.2
740.0347.111	JT60-SC20-200	60	20	200	361.8	58	55-62	13.0
740.0348.111	JT60-SC25-130	60	25	130	291.8	65	68-72	12.1

No.	Model	Size	d	A	L	D	Bans	kg
740.0349.111	JT60-SC25-160	60	25	160	321.8	65	68-72	12.9
740.0350.111	JT60-SC25-200	60	25	200	361.8	65	68-72	14.0
740.0351.111	JT60-SC32-130	60	32	130	291.8	73	68-72	12.9
740.0352.111	JT60-SC32-160	60	32	160	321.8	73	68-72	13.9
740.0353.111	JT60-SC32-200	60	32	200	361.8	73	68-72	15.2
740.0354.111	JT60-SC40-130	60	40	130	291.8	88	78-85	14.5
740.0355.111	JT60-SC40-160	60	40	160	321.8	88	78-85	16.0
740.0356.111	JT60-SC40-200	60	40	200	361.8	88	78-85	17.9
740.0357.111	JT60-SC50-140	60	50	140	301.8	105	100-110	17.5
740.0358.111	JT60-SC50-160	60	50	160	321.8	105	100-110	18.8
740.0359.111	JT60-SC50-200	60	50	200	361.8	105	100-110	21.6

注意:被夹持直柄刀具的柄部公差为H6,使用方向配用扳手加紧直柄刀具时,不允许使用方向其他额外工具。如果你需要扳手,请联系销售人员额外订购

注意:其他型号和尺寸可按订货要求制作。

Note:The clamping diameter is designed for a cemented carbide shank tolerance of h6.You not be allowed to use other auxiliary device when you use the clamping stright tools.If you need the clamping keys,you need order it additionally.

Other designs and sizes are available on request.

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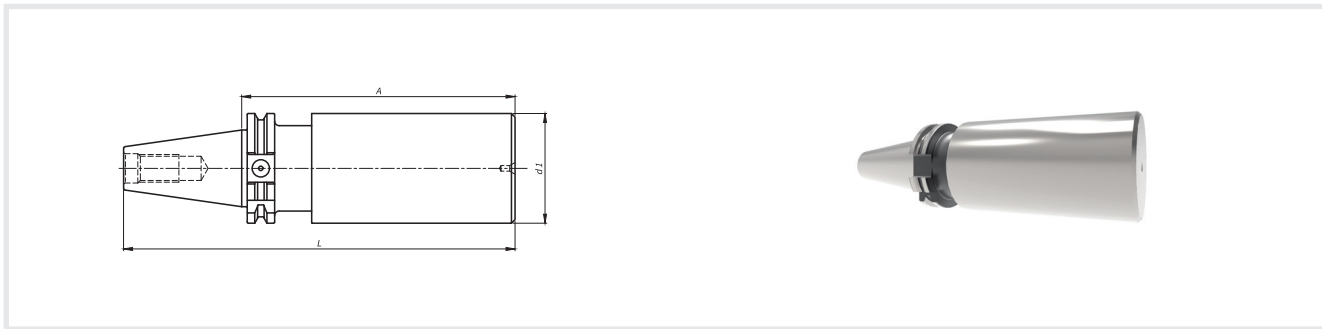
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毛坯刀柄(合金钢)

Tool Blanks with Alloy Steel



DIN
69871

Form
A

No.	Model	Size	d1	A	L	kg
517.5001.292	JT40-BL63-150	40	63	150	218.4	4.0
517.6002.292	JT40-BL63-250	40	63	250	318.4	6.5
517.6002.291	JT50-BL63-315	50	63	315	416.65	9.8
517.5001.291	JT50-BL95-180	50	95	180	281.65	11.6
517.5002.291	JT50-BL95-315	50	95	315	416.65	19.1

使用方向:用于制造特殊刀具刀体及工具系统产品。

Use: For own manufacture of special tools.

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2),淬硬层在0.5mm以上;刀具端硬度HRC38-43。

Design:The taper is finished with grinding,the dimensions are in accordance with the standard of the handle,HV670±40 (approximately HRC58±2),the hardened layer is above 0.5mm. Tool part is HRC36-44.

材料:合金钢

Material: Alloy steel.

注意:其他型号和尺寸可按订货要求制作

Note:Other designs and sizes are available on request.

ACCESSORIES

配件

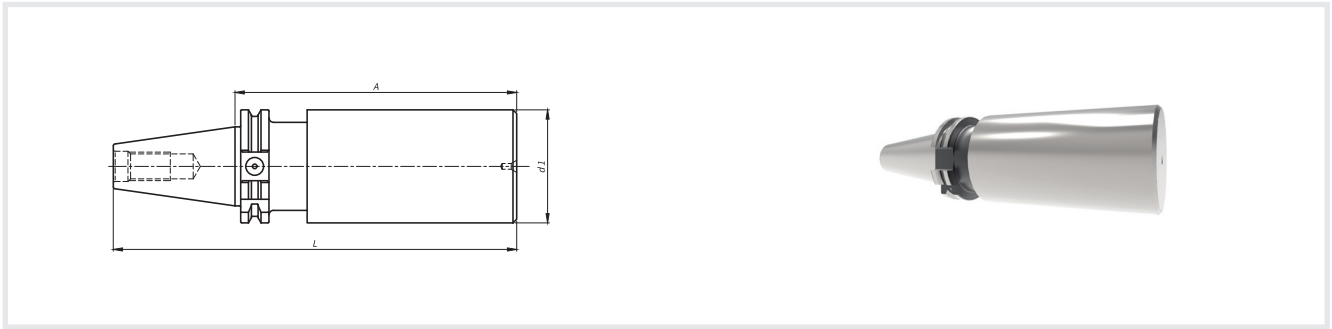


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毛坯刀柄(渗碳钢)

Tool Blanks with Alloy (Ca) se-hardened Steel



DIN
69871

Form
A

No.	Model	Size	d1	A	L	kg
517.0002.292	JT40-BLH63-250	40	63	250	318.4	6.5
517.0002.291	JT50-BLH63-315	50	63	315	416.65	9.8

使用方向:用于制造工具系统产品。

Use: For own manufacture of special tools.

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2)。刀具端面抛光,未做淬硬处理,为原材料本身硬度。

Design:Taper including flange hardened.Vickers hardness min HV670kp/mm2 (min.HRC 58).Taper ground, shank not ground prepared to be finished,unhardened.

Material:Aolly case-hardened steel.

材料:渗碳钢

Note: Other designs and sizes are available on request.

注意:其他型号和尺寸可按订货要求制作。

ACCESSORIES

配件



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BT-FC Steep Taper

BT-FC Both Side



双面定位刀柄	Double-sided position precision tools	
热装夹头刀柄	i-tec® Shrink-fit Chucks	095
削平型直柄立铣刀柄	Reduction Sleeves for Straight Shanks	097
弹簧夹头刀柄	Collet Chucks with internal thread	098
GSK高精度弹簧夹头刀柄	Collet Chucks GSK	100
端铣刀柄	Shell End Mill Arbors	102

BT-FC双面定位刀柄

Double-sided positioning precision tool



Form
AD

BT-FC	d1	d2	d3/H8	d6/h8	d7	$l1 \pm 0.15$	$l6 - 0.2$	a	f1	f3
30	31.75	M12	12.5	46	38	48.4	16.3	1	13.6	22
40	44.45	M16	17	63	53	65.4	22.6	1	16.6	27
50	69.85	M24	25	100	85	101.8	35.4	1.5	23.2	38

设计: 刀柄硬度应满足临界变形指数, 硬度的应该维持在 $HV670 \pm 40$ (近似于 $HRC 58 \pm 2$), 淬硬(渗碳)层在0.5mm以上。

其中, 锥度公差AT3符合DIN 2080-1。

材料: 符合硬度要求的合金钢, 所承受扭矩为 $980N/MM^2$ 。

说明: 价格和交付情况如有变化会在详单上实时变更。(单位:mm)

仅凯狮有权对此类产品的技术参数进行更改。

Design: The hardness shall meet the low deformation, with $HV 670 \pm 40$ (approximately $HRC 58 \pm 2$) and hardened (carburize) layer above 0.5mm. Taper tolerance fits with DIN 2080-1 at AT3.

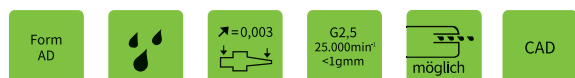
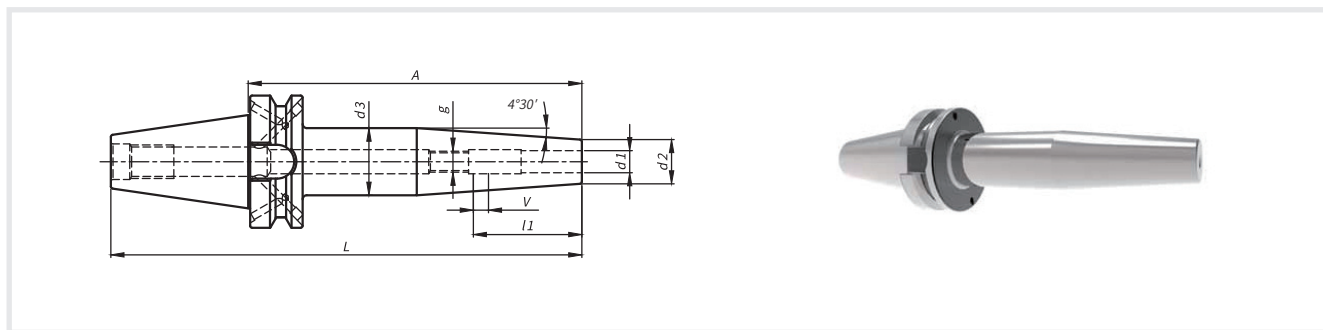
Material: The alloy steel material of the clamping tools meet the hardness requirements and can withstand torque of $980 N/MM^2$.

Description: Price and delivery will change in real time on the details. (Units in mm)

Only Kelch retains the authority to modify the technology.

热装夹头刀柄 (标准型)

i-tec® Shrink-fit Chucks



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.6101.307	BT-FC40-SRK6-90	40	6	90	21	31	36	M5	155.4	10	1.3
311.6151.307	BT-FC40-SRK6-160	40	6	160	21	32	36	M5	225.4	10	1.7
311.6102.307	BT-FC40-SRK8-90	40	8	90	21	31	36	M6	155.4	10	1.3
311.6152.307	BT-FC40-SRK8-160	40	8	160	21	32	36	M6	225.4	10	1.7
311.6103.307	BT-FC40-SRK10-90	40	10	90	24	34	41	M8×1	155.4	10	1.4
311.6153.307	BT-FC40-SRK10-160	40	10	160	24	34	41	M8×1	225.4	10	1.8
311.6104.307	BT-FC40-SRK12-90	40	12	90	24	34	47	M10×1	155.4	10	1.4
311.6154.307	BT-FC40-SRK12-160	40	12	160	24	34	47	M10×1	225.4	10	1.8
311.6105.307	BT-FC40-SRK14-90	40	14	90	27	36	47	M10×1	155.4	10	1.4
311.6155.307	BT-FC40-SRK14-160	40	14	160	27	36	47	M10×1	225.4	10	1.9
311.6106.307	BT-FC40-SRK16-90	40	16	90	27	36	50	M12×1	155.4	10	1.4
311.6156.307	BT-FC40-SRK16-160	40	16	160	27	36	50	M12×1	225.4	10	1.9
311.6107.307	BT-FC40-SRK18-90	40	18	90	33	43	50	M12×1	155.4	10	1.6
311.6157.307	BT-FC40-SRK18-160	40	18	160	33	43	50	M12×1	225.4	10	2.3
311.6108.307	BT-FC40-SRK20-90	40	20	90	33	43	52	M16×1	155.4	10	1.6
311.6158.307	BT-FC40-SRK20-160	40	20	160	33	43	52	M16×1	225.4	10	2.3
311.6109.307	BT-FC40-SRK25-100	40	25	100	44	48	58	M16×1	165.4	10	1.9
311.6159.307	BT-FC40-SRK25-160	40	25	160	44	53	58	M16×1	225.4	10	3.0
311.6101.308	BT-FC50-SRK6-100	50	6	100	21	31	36	M5	201.8	10	3.9
311.6151.308	BT-FC50-SRK6-160	50	6	160	21	32	36	M5	261.8	10	4.3
311.6102.308	BT-FC50-SRK8-100	50	8	100	21	31	36	M6	201.8	10	3.9
311.6152.308	BT-FC50-SRK8-160	50	8	160	21	32	36	M6	261.8	10	4.3
311.6103.308	BT-FC50-SRK10-100	50	10	100	24	34	41	M8×1	201.8	10	4.0
311.6153.308	BT-FC50-SRK10-160	50	10	160	24	34	41	M8×1	261.8	10	4.4
311.6104.308	BT-FC50-SRK12-100	50	12	100	24	34	47	M10×1	201.8	10	4.0
311.6154.308	BT-FC50-SRK12-160	50	12	160	24	34	47	M10×1	261.8	10	4.4
311.6105.308	BT-FC50-SRK14-100	50	14	100	27	37	47	M10×1	201.8	10	4.1
311.6155.308	BT-FC50-SRK14-160	50	14	160	27	36	47	M10×1	261.8	10	4.5
311.6106.308	BT-FC50-SRK16-100	50	16	100	27	37	50	M12×1	201.8	10	4.1
311.6156.308	BT-FC50-SRK16-160	50	16	160	27	36	50	M12×1	261.8	10	4.5

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.6107.308	BT-FC50-SRK18-100	50	18	100	33	43	50	M12×1	201.8	10	4.2
311.6157.308	BT-FC50-SRK18-160	50	18	160	33	44	50	M12×1	261.8	10	4.9
311.6108.308	BT-FC50-SRK20-100	50	20	100	33	43	52	M16×1	201.8	10	4.2
311.6158.308	BT-FC50-SRK20-160	50	20	160	33	44	52	M16×1	261.8	10	4.9
311.6109.308	BT-FC50-SRK25-120	50	25	120	44	57	58	M16×1	221.8	10	5.1
311.6159.308	BT-FC50-SRK25-160	50	25	160	44	53	58	M16×1	261.8	10	5.5
311.6110.308	BT-FC50-SRK32-120	50	32	120	44	57	61	M16×1	221.8	10	5.1
311.6160.308	BT-FC50-SRK32-160	50	32	160	44	53	61	M16×1	261.8	10	5.5

设计:请使用方向柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-v尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用方向专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

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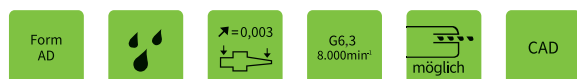
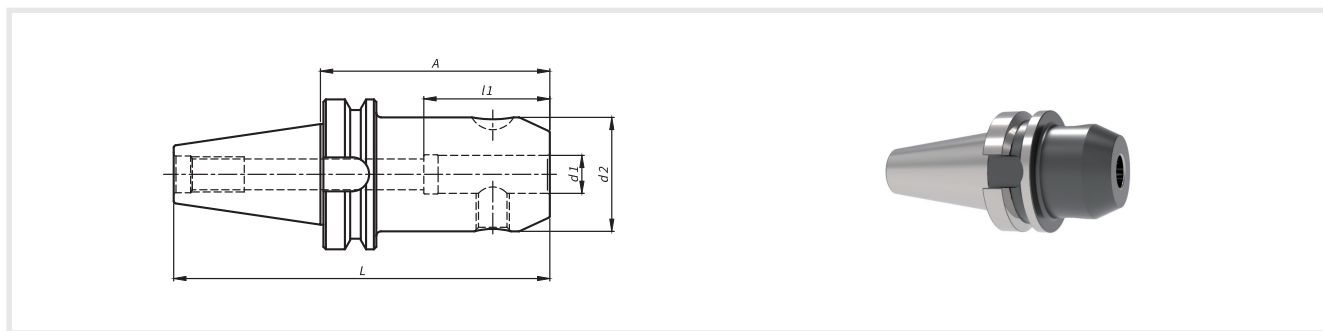
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削平型直柄立铣刀柄(威尔顿型)

Reduction Sleeves for Straight Shanks with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	L	Screw	kg
420.0011.307	BT-FC40-EM6-50	40	6	50	25	35	115.4	M6X10	1.0
420.0012.307	BT-FC40-EM8-50	40	8	50	28	35	115.4	M8X10	1.1
420.0003.307	BT-FC40-EM10-63	40	10	63	35	39	128.4	M10X12	1.2
420.0004.307	BT-FC40-EM12-63	40	12	63	42	44	128.4	M12X16	1.3
420.0005.307	BT-FC40-EM16-63	40	16	63	48	47	128.4	M14X16	1.4
420.0006.307	BT-FC40-EM20-63	40	20	63	52	49	128.4	M16X16	1.5
420.0007.307	BT-FC40-EM25-90	40	25	90	65	54	155.4	M18X2X20	2.4
420.0008.307	BT-FC40-EM32-100	40	32	100	72	58	165.4	M20X2X20	3.1
420.0011.308	BT-FC50-EM6-63	50	6	63	25	35	164.8	M6X10	3.7
420.0012.308	BT-FC50-EM8-63	50	8	63	28	35	164.8	M8X10	3.7
420.0013.308	BT-FC50-EM10-63	50	10	63	35	39	164.8	M10X12	3.8
420.0004.308	BT-FC50-EM12-80	50	12	80	42	44	181.8	M12X16	4.0
420.0005.308	BT-FC50-EM16-80	50	16	80	48	47	181.8	M14X16	4.1
420.0006.308	BT-FC50-EM20-80	50	20	80	52	49	181.8	M16X16	4.2
420.0007.308	BT-FC50-EM25-100	50	25	100	65	54	201.8	M18X2X20	5.0
420.0018.308	BT-FC50-EM32-105	50	32	105	72	58	206.8	M20X2X20	5.5

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

注意:

- 1.带孔的调整螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

Note:

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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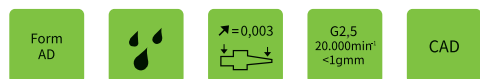
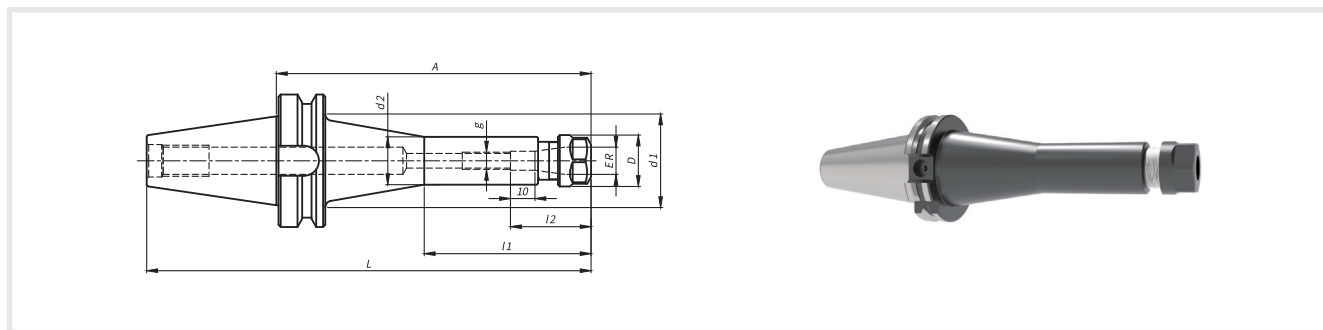
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ER/ESXER-11/16弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 11/16 with internal thread



No.	Model	Size	ER	A	d1	d2	D	l1	l2	g	L	kg
698.0001.307	BT-FC40-ER16-63	40	ER16(0.5-10)	63	-	28	28	-	27	M12	128.4	1.1
698.6002.307	BT-FC40-ER16-100	40	ER16(0.5-10)	100	-	28	28	-	27	M12	165.4	1.3
698.6003.307	BT-FC40-ER16-160	40	ER16(0.5-10)	160	46	28	28	85	27	M12	225.4	1.5
698.0001.308	BT-FC50-ER16-100	50	ER16(0.5-10)	100	-	28	28	-	27	M12	201.8	3.9
698.6002.308	BT-FC50-ER16-160	50	ER16(0.5-10)	160	78	28	28	85	27	M12	261.8	4.1

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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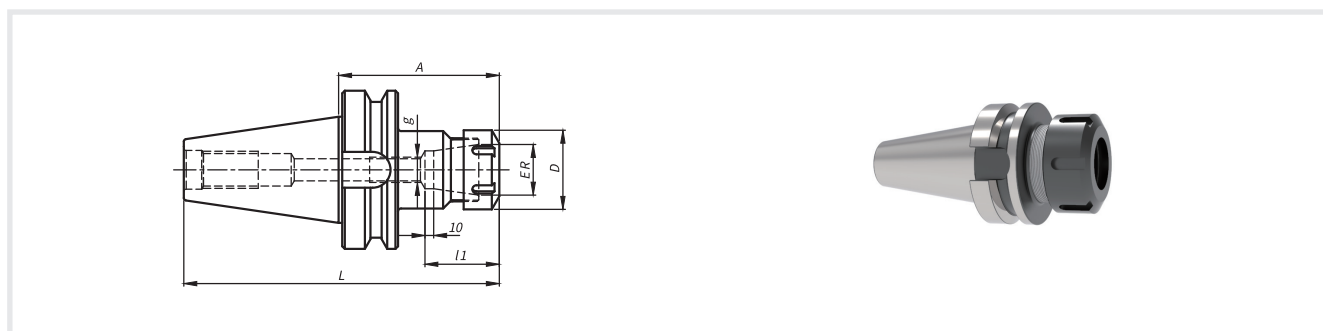
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ER/ESXER-25/32弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 20/25/32/40 with internal thread



No.	Model	Size	ER	A	D	l1	g	L	kg
640.0103.041	BT-FC40-ER25-70	40	ER25(1-16)	70	42	43	M16	135.4	1.4
640.0104.041	BT-FC40-ER25-100	40	ER25(1-16)	100	42	43	M16	165.4	1.7
640.0105.041	BT-FC40-ER25-160	40	ER25(1-16)	160	42	43	M16	225.4	2.3
640.0106.041	BT-FC40-ER32-70	40	ER32(2-20)	70	50	47	M16	135.4	1.6
640.0107.041	BT-FC40-ER32-100	40	ER32(2-20)	100	50	47	M16	165.4	2.0
640.0108.041	BT-FC40-ER32-160	40	ER32(2-20)	160	50	47	M16	225.4	2.8
697.0003.308	BT-FC50-ER25-70	50	ER25(1-16)	70	42	43	M16	171.8	3.9
640.0110.041	BT-FC50-ER25-100	50	ER25(1-16)	100	42	43	M16	201.8	4.2
640.0111.041	BT-FC50-ER25-160	50	ER25(1-16)	160	42	43	M16	261.8	4.8
697.0001.308	BT-FC50-ER32-70	50	ER32(2-20)	70	50	47	M16	171.8	4.0
640.0113.041	BT-FC50-ER32-100	50	ER32(2-20)	100	50	47	M16	201.8	4.5
640.0114.041	BT-FC50-ER32-160	50	ER32(2-20)	160	50	47	M16	261.8	5.3

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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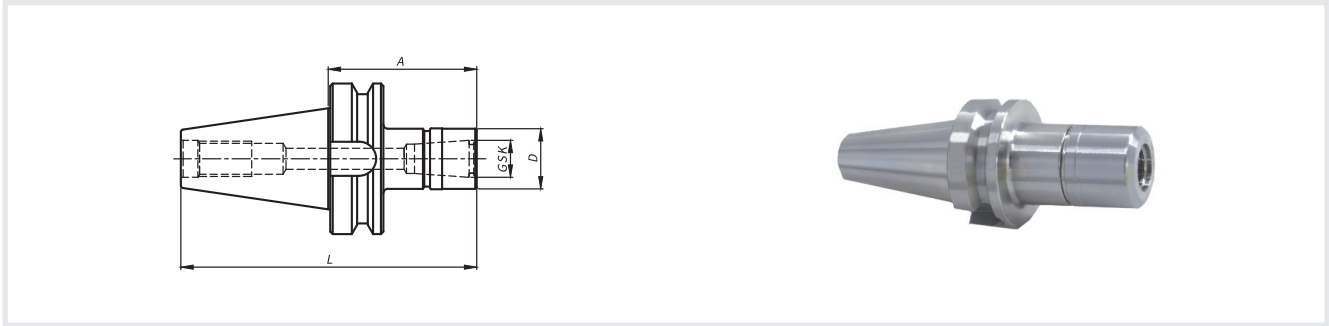
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GSK高精度弹簧夹头刀柄

Collet Chucks GSK6/10/13/16/20/25



No.	Model	Size	GSK	A	D	L	Kg
440.0104.042	BT-FC40-GSK6-63	40	GSK6 (3-6)	63	19.5	128.4	1.0
440.0105.042	BT-FC40-GSK6-100	40	GSK6 (3-6)	100	19.5	165.4	1.1
440.0106.042	BT-FC40-GSK10-63	40	GSK10 (2-10)	63	27.5	128.4	1.1
440.0107.042	BT-FC40-GSK10-100	40	GSK10 (2-10)	100	27.5	165.4	1.3
440.0108.042	BT-FC40-GSK10-160	40	GSK10 (2-10)	160	27.5	225.4	1.5
440.0182.042	BT-FC40-GSK13-70	40	GSK13 (3-13)	70	35	135.4	1.3
440.0183.042	BT-FC40-GSK13-100	40	GSK13 (3-13)	100	35	165.4	1.5
440.0184.042	BT-FC40-GSK13-160	40	GSK13 (3-13)	160	35	225.4	1.9
440.0109.042	BT-FC40-GSK16-70	40	GSK16 (3-16)	70	40	135.4	1.4
440.0110.042	BT-FC40-GSK16-100	40	GSK16 (3-16)	100	40	165.4	1.6
440.0111.042	BT-FC40-GSK16-160	40	GSK16 (3-16)	160	40	225.4	2.2
440.0112.042	BT-FC40-GSK20-70	40	GSK20 (4-20)	70	48	135.4	1.5
440.0113.042	BT-FC40-GSK20-100	40	GSK20 (4-20)	100	48	165.4	1.9
440.0114.042	BT-FC40-GSK20-160	40	GSK20 (4-20)	160	48	225.4	2.7
440.0115.042	BT-FC40-GSK25-80	40	GSK25 (3-25)	80	55	145.4	1.9
440.0116.042	BT-FC40-GSK25-100	40	GSK25 (3-25)	100	55	165.4	2.2
440.0117.042	BT-FC40-GSK25-160	40	GSK25 (3-25)	160	55	225.4	3.2
440.0118.042	BT-FC50-GSK10-100	50	GSK10 (2-10)	100	27.5	201.8	3.9
440.0119.042	BT-FC50-GSK10-160	50	GSK10 (2-10)	160	27.5	261.8	4.1
440.0186.042	BT-FC50-GSK13-100	50	GSK13 (3-13)	100	35	201.8	4.0
440.0187.042	BT-FC50-GSK13-160	50	GSK13 (3-13)	160	35	261.8	4.4
440.0121.042	BT-FC50-GSK16-100	50	GSK16 (3-16)	100	40	201.8	4.1
440.0122.042	BT-FC50-GSK16-160	50	GSK16 (3-16)	160	40	261.8	4.7
440.0124.042	BT-FC50-GSK20-100	50	GSK20 (4-20)	100	48	201.8	4.4
440.0125.042	BT-FC50-GSK20-160	50	GSK20 (4-20)	160	48	261.8	5.2
440.0127.042	BT-FC50-GSK25-100	50	GSK25 (3-25)	100	55	201.8	4.6
440.0128.042	BT-FC50-GSK25-160	50	GSK25 (3-25)	160	55	261.8	5.6

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:括号中数字仅表示夹持刀具柄部尺寸范围,不体现在产品型号中。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, B and E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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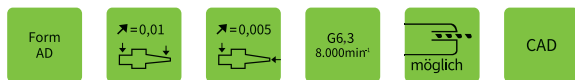
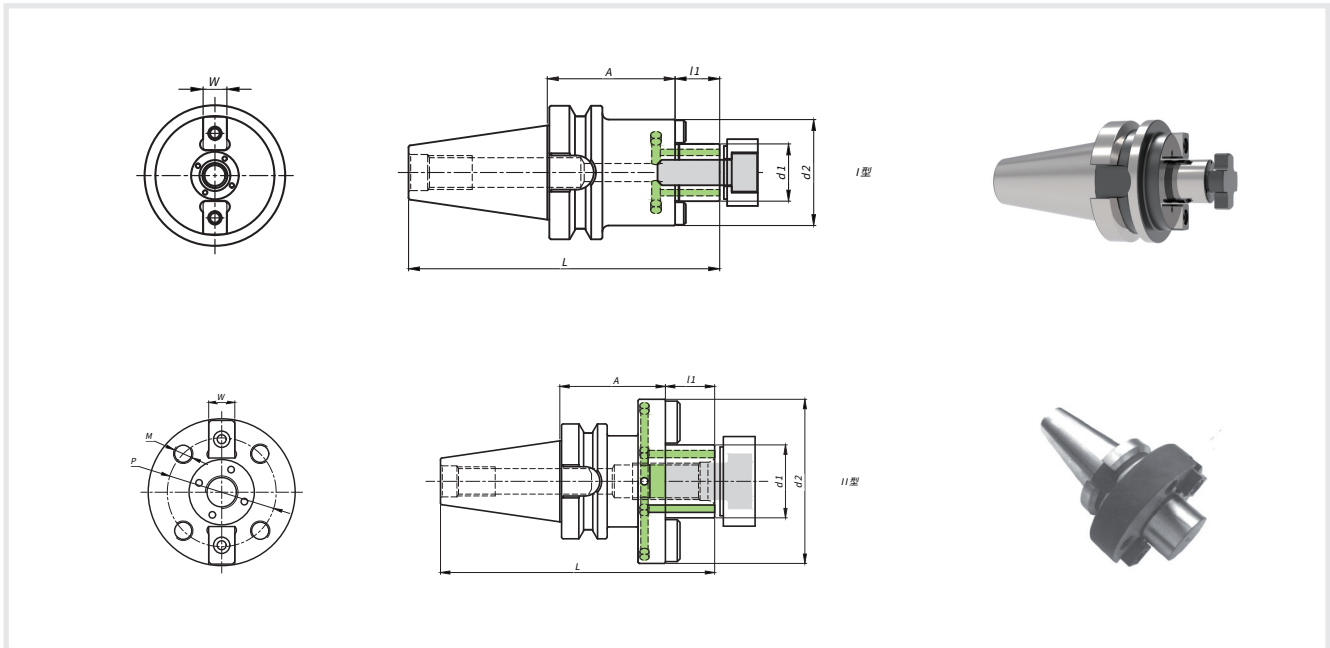
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端铣刀柄(带内冷)

Shell End Mill Arbors with enlarged contact diameter



No.	Model	Size	d1	A	d2	l1	L	P	M	W	Screw	Plate	kg
579.4005.307	BT-FC40-FMB16-35C	40	16	35	40	17	117.4	-	-	8	M8(SW6)	—	1.1
579.4001.307	BT-FC40-FMB22-35C	40	22	35	50	19	119.4	-	-	10	M10(SW8)	—	1.2
579.4002.307	BT-FC40-FMB27-35C	40	27	35	60	21	121.4	-	-	12	M12(SW10)	R-D27	1.2
579.4003.307	BT-FC40-FMB32-50C	40	32	50	80	24	139.4	-	-	14	M16(SW14)	R-D32	2.0
579.4004.307	BT-FC40-FMC40-50C	40	40	50P	89	27	142.4	66.7	M12	16	M20(SW17)	R-D40	2.4
579.4001.308	BT-FC50-FMB22-50C	50	22	50	50	19	170.8	-	-	10	M10(SW8)	—	3.8
579.4002.308	BT-FC50-FMB27-50C	50	27	50	60	21	172.8	-	-	12	M12(SW10)	R-D27	4.0
579.4003.308	BT-FC50-FMB32-50C	50	32	50	80	24	175.8	-	-	14	M16(SW14)	R-D32	4.2
579.4004.308	BT-FC50-FMC40-55C	50	40	55P	90	27	183.8	66.7	M12	16	M20(SW17)	R-D40	4.7

使用方向:用于夹持带有端面键槽的面铣刀。

Use For:clamping shell end mills and milling cutters with tenon drive.

设计:带有中心冷却功能, $\phi 40$ 和 $\phi 60$ 规格需要4个或8个螺钉夹紧, 刀具和主轴的安装尺寸符合DIN 2079标准。

Design: Central boring for coolant supply.Clamping 40 and 60 with 4 threaded holes for holding cutters with tool holding according to DIN 2079.

出厂标准产品包括紧固螺钉和传动键。

Standard Specification: Cutter retaining screw and tightened drive keys included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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HSK-Hollow Taper Shanks

HSK ISO 12164-1

HSK DIN 69893-5



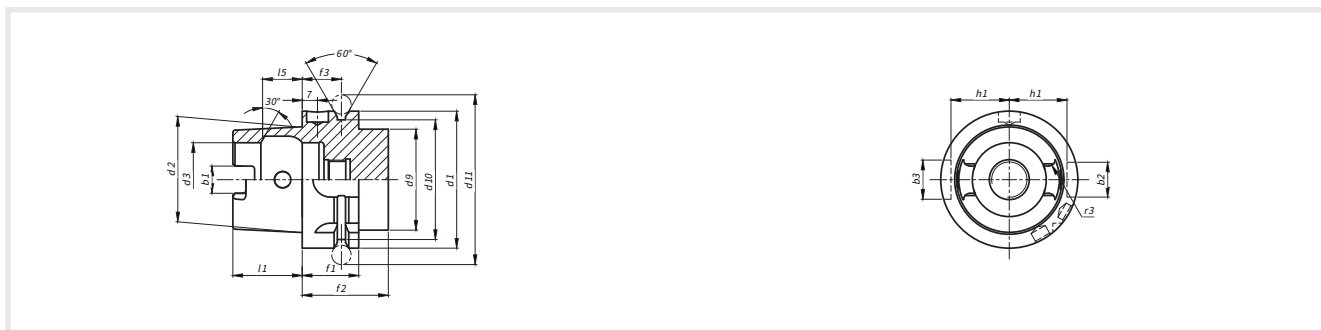
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HSK-Hollow Taper Shanks

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HSK-A型锥柄

HSK-A Tool Holders



HSK-A	b1±0.04	b2/H10	b3/H10	d1/h10	d2	d3/H10	d9max.	d10-0.1	d11-0.1	f1-0.1	f2min.	f3±0.1	h1-0.2	l1-0.2	l5/J510	r3±0.05
32	7.05	7	9	32	24	17	26	26.5	37	20	35	16	13	16	8.92	1.38
40	8.05	9	11	40	30	21	34	34.8	45	20	35	16	17	20	11.42	1.88
50	10.54	12	14	50	38	26	42	43	59.3	26	42	18	21	25	14.13	2.38
63	12.54	16	18	63	48	34	53	55	72.3	26	42	18	26.5	32	18.13	2.88
80	16.04	18	20	80	60	42	67	70	88.8	26	42	18	34	40	22.85	3.88
100	20.02	20	22	100	75	53	85	92	109.75	29	45	20	44	50	28.56	4.88

符合ISO 12164-1型和 DIN 69893-1型, 并且冷却时经过法兰的锥柄进行内冷却和外冷却。

设计: 刀柄硬度应满足临界变形指数, 硬度的应该维持在 HV670±40(近似于HRC 58±2), 淬硬(渗碳)层在0.3-0.6mm以上。其中, 锥度公差AT3符合DIN 2080-1。

材料: 符合硬度要求的合金钢, 抗拉强度980N/MM²。

说明: 价格和交付情况如有变化会在详单上实时变更。(单位:mm)

仅凯狮有权对此类产品的技术参数进行更改。

Conform with the ISO 12164-1 and DIN 69893-1, It is internally cooled by flange and External cooling cone handle.

Design: The hardness shall meet the low deformation, with HV 670±40 (approximately HRC 58±2) and hardened (carburize) layer above 0.3-0.6mm. Taper tolerance fits with DIN 2080-1 at AT3.

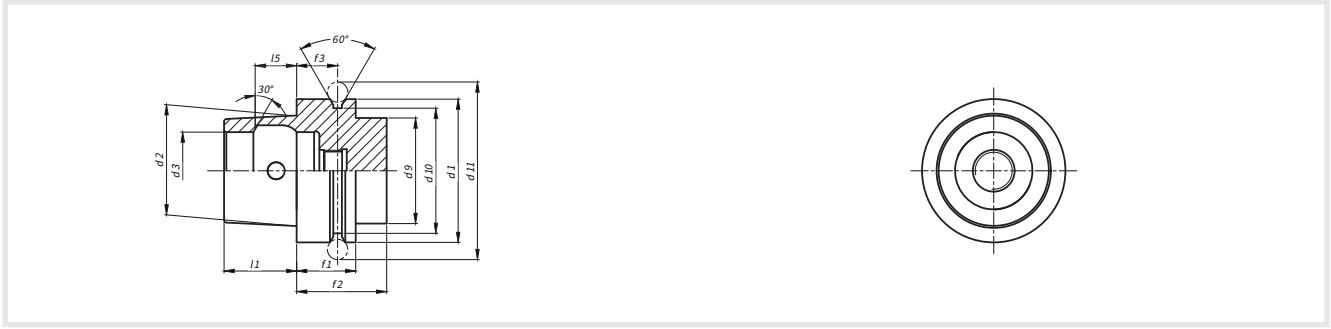
Material: The alloy steel material of the clamping tools meet the hardness requirements and can withstand tensile strength of 980 N/MM².

Description: Price and delivery will change in real time on the details. (Units in mm)

Only Kelch retains the authority to modify the technology.

HSK-E型锥柄

HSK-E Tool Holders



HSK-E	d1/h10	d2	d3/H10	d9max.	d10-0.1	d11-0.1	f1-0.1	f2min.	f3±0.1	l1-0.2	l5J510
32	32	24	17	26	26.5	37	20	35	16	16	8.92
40	40	30	21	34	34.8	45	20	35	16	20	11.42
50	50	38	26	42	43	59.3	26	42	18	25	14.13
63	63	48	34	53	55	72.3	26	42	18	32	18.13
80	80	60	42	67	70	88.8	26	42	18	40	22.85
100	100	75	53	85	92	109.75	29	45	20	50	28.56

符合12164-1型和 DIN 69893-5型, 并且冷却时经过法兰的锥柄进行内冷却和外冷却。

设计: 刀柄硬度应满足临界变形指数, 硬度的应该维持在 HV670±40(近似于HRC 58±2), 淬硬(渗碳)层在0.3-0.6mm以上。其中, 锥度公差AT3符合DIN 2080-1。

材料: 符合硬度要求的合金钢, 抗拉强度980N/MM²。

说明: 价格和交付情况如有变化会在详单上实时变更。(单位:mm)

仅凯狮有权对此类产品的技术参数进行更改。

Conform with the ISO 12164-1 and DIN 69893-1, It is internally cooled by flange and External cooling cone handle.

Design: The hardness shall meet the low deformation, with HV 670±40 (approximately HRC 58±2) and hardened (carburize) layer above 0.3-0.6mm. Taper tolerance fits with DIN 2080-1 at AT3.

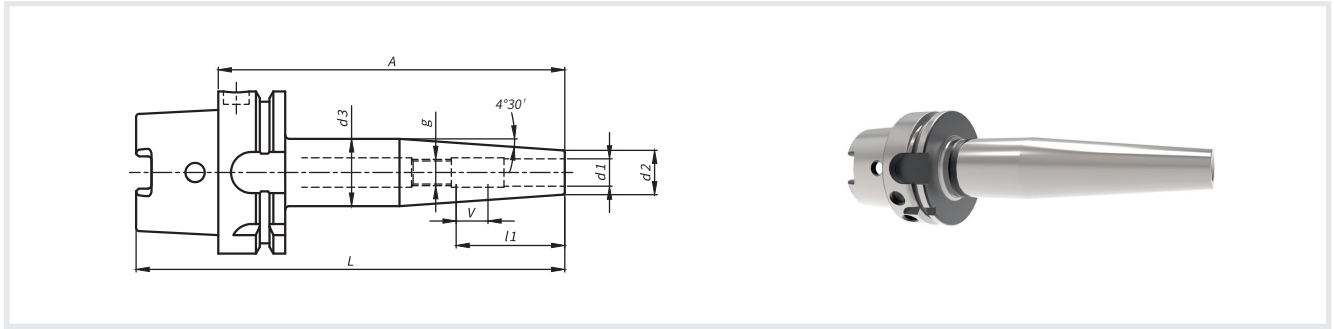
Material: The alloy steel material of the clamping tools meet the hardness requirements and can withstand tensile strength of 980 N/MM².

Description: Price and delivery will change in real time on the details. (Units in mm)

Only Kelch retains the authority to modify the technology.

热装夹头刀柄 (标准型)

i-tec® Shrink-fit Chucks



DIN 69882-8
Form A
☔
↕=0,003
G2.5 25,000mirr <1gmm
🔧 möglich
CAD

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0011.320	HSK-A40-SRK3-65	40	3	65	12	17	-	-	85.0	-	0.3
311.0012.320	HSK-A40-SRK4-65	40	4	65	12	17	-	-	85.0	-	0.3
311.0013.320	HSK-A40-SRK5-65	40	5	65	12	17	-	-	85.0	-	0.3
311.0001.320	HSK-A40-SRK6-80	40	6	80	21	30	36	M5	100.0	10	0.5
311.0002.320	HSK-A40-SRK8-80	40	8	80	21	30	36	M6	100.0	10	0.5
311.0003.320	HSK-A40-SRK10-80	40	10	80	24	33	41	M8×1	100.0	10	0.5
311.0004.320	HSK-A40-SRK12-90	40	12	90	24	35	47	M10×1	110.0	10	0.7
311.0005.320	HSK-A40-SRK14-90	40	14	90	27	34	47	M10×1	110.0	10	0.6
311.0006.320	HSK-A40-SRK16-90	40	16	90	27	34	50	M12×1	110.0	10	0.6
311.0011.321	HSK-A50-SRK3-65	50	3	65	12	17	-	-	90.0	-	0.4
311.0012.321	HSK-A50-SRK4-65	50	4	65	12	17	-	-	90.0	-	0.4
311.0013.321	HSK-A50-SRK5-65	50	5	65	12	17	-	-	90.0	-	0.4
311.0001.321	HSK-A50-SRK6-80	50	6	80	21	30	36	M5	105.0	10	0.6
311.0002.321	HSK-A50-SRK8-80	50	8	80	21	30	36	M6	105.0	10	0.6
311.0003.321	HSK-A50-SRK10-85	50	10	85	24	33	41	M8×1	110.0	10	0.7
311.0004.321	HSK-A50-SRK12-90	50	12	90	24	34	47	M10×1	115.0	10	0.8
311.0005.321	HSK-A50-SRK14-90	50	14	90	27	37	47	M10×1	115.0	10	0.9
311.0006.321	HSK-A50-SRK16-95	50	16	95	27	38	50	M12×1	120.0	10	0.9
311.0007.321	HSK-A50-SRK18-95	50	18	95	33	42	50	M12×1	120.0	10	1.1
311.0008.321	HSK-A50-SRK20-100	50	20	100	33	42	52	M16×1	125.0	10	1.1
311.0011.322	HSK-A63-SRK3-80	63	3	80	12	17	-	-	112.0	-	0.7
311.0012.322	HSK-A63-SRK3-120	63	3	120	12	17	-	-	152.0	-	0.8
311.0013.322	HSK-A63-SRK3-160	63	3	160	12	17	-	-	192.0	-	0.8
311.0014.322	HSK-A63-SRK4-80	63	4	80	12	17	-	-	112.0	-	0.7
311.0015.322	HSK-A63-SRK4-120	63	4	120	12	17	-	-	152.0	-	0.8
311.0016.322	HSK-A63-SRK4-160	63	4	160	12	17	-	-	192.0	-	0.8
311.0017.322	HSK-A63-SRK5-80	63	5	80	12	17	-	-	112.0	-	0.7
311.0018.322	HSK-A63-SRK5-120	63	5	120	12	17	-	-	152.0	-	0.8
311.0019.322	HSK-A63-SRK5-160	63	5	160	12	17	-	-	192.0	-	0.8

HSK 刀柄

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0001.322	HSK-A63-SRK6-80	63	6	80	21	30	36	M5	112.0	10	0.9
311.0031.322	HSK-A63-SRK6-120	63	6	120	21	32	36	M5	152.0	10	1.2
311.0041.322	HSK-A63-SRK6-160	63	6	160	21	32	36	M5	192.0	10	1.4
311.0021.322	HSK-A63-SRK6-200	63	6	200	21	32	36	M5	232.0	10	1.6
311.0002.322	HSK-A63-SRK8-80	63	8	80	21	30	36	M6	112.0	10	0.9
311.0032.322	HSK-A63-SRK8-120	63	8	120	21	32	36	M6	152.0	10	1.2
311.0042.322	HSK-A63-SRK8-160	63	8	160	21	32	36	M6	192.0	10	1.4
311.0022.322	HSK-A63-SRK8-200	63	8	200	21	32	36	M6	232.0	10	1.6
311.0003.322	HSK-A63-SRK10-85	63	10	85	24	33	41	M8×1	117.0	10	1.0
311.0033.322	HSK-A63-SRK10-120	63	10	120	24	34	41	M8×1	152.0	10	1.2
311.0043.322	HSK-A63-SRK10-160	63	10	160	24	34	41	M8×1	192.0	10	1.5
311.0023.322	HSK-A63-SRK10-200	63	10	200	24	34	41	M8×1	232.0	10	1.7
311.0004.322	HSK-A63-SRK12-90	63	12	90	24	34	47	M10×1	122.0	10	1.0
311.0034.322	HSK-A63-SRK12-120	63	12	120	24	34	47	M10×1	152.0	10	1.2
311.0044.322	HSK-A63-SRK12-160	63	12	160	24	34	47	M10×1	192.0	10	1.5
311.0024.322	HSK-A63-SRK12-200	63	12	200	24	34	47	M10×1	232.0	10	1.7
311.0005.322	HSK-A63-SRK14-90	63	14	90	27	37	47	M10×1	122.0	10	1.1
311.0035.322	HSK-A63-SRK14-120	63	14	120	27	36	47	M10×1	152.0	10	1.3
311.0045.322	HSK-A63-SRK14-160	63	14	160	27	36	47	M10×1	192.0	10	1.6
311.0025.322	HSK-A63-SRK14-200	63	14	200	27	36	47	M10×1	232.0	10	1.9
311.0006.322	HSK-A63-SRK16-95	63	16	95	27	38	50	M12×1	127.0	10	1.2
311.0036.322	HSK-A63-SRK16-120	63	16	120	27	36	50	M12×1	152.0	10	1.3
311.0046.322	HSK-A63-SRK16-160	63	16	160	27	36	50	M12×1	192.0	10	1.6
311.0026.322	HSK-A63-SRK16-200	63	16	200	27	36	50	M12×1	232.0	10	1.9
311.0007.322	HSK-A63-SRK18-95	63	18	95	33	44	50	M12×1	127.0	10	1.4
311.0047.322	HSK-A63-SRK18-160	63	18	160	33	44	50	M12×1	192.0	10	2.1
311.0097.322	HSK-A63-SRK18-200	63	18	200	33	44	50	M12×1	232.0	10	2.5
311.0008.322	HSK-A63-SRK20-100	63	20	100	33	45	52	M16×1	132.0	10	1.5
311.0048.322	HSK-A63-SRK20-160	63	20	160	33	44	52	M16×1	192.0	10	2.1
311.0098.322	HSK-A63-SRK20-200	63	20	200	33	44	52	M16×1	232.0	10	2.5
311.0009.322	HSK-A63-SRK25-115	63	25	115	44	53	58	M16×1	147.0	10	2.0
311.0049.322	HSK-A63-SRK25-160	63	25	160	44	53	58	M16×1	192.0	10	2.7
311.0099.322	HSK-A63-SRK25-200	63	25	200	44	53	58	M16×1	232.0	10	3.3
311.0010.322	HSK-A63-SRK32-120	63	32	120	44	53	61	M16×1	152.0	10	2.1
311.0050.322	HSK-A63-SRK32-160	63	32	160	44	53	61	M16×1	192.0	10	2.7
311.0100.322	HSK-A63-SRK32-200	63	32	200	44	53	61	M16×1	232.0	10	3.3
311.0001.323	HSK-A80-SRK6-85	80	6	85	21	30	36	M5	125.0	10	1.4
311.0002.323	HSK-A80-SRK8-85	80	8	85	21	30	36	M6	125.0	10	1.4
311.0003.323	HSK-A80-SRK10-90	80	10	90	24	34	41	M8×1	130.0	10	1.5
311.0004.323	HSK-A80-SRK12-95	80	12	95	24	35	47	M10×1	135.0	10	1.5
311.0005.323	HSK-A80-SRK14-95	80	14	95	27	38	47	M10×1	135.0	10	1.6
311.0006.323	HSK-A80-SRK16-100	80	16	100	27	39	50	M12×1	140.0	10	1.7
311.0007.323	HSK-A80-SRK18-100	80	18	100	33	45	50	M12×1	140.0	10	1.9
311.0008.323	HSK-A80-SRK20-105	80	20	105	33	45	52	M16×1	145.0	10	2.0
311.0009.323	HSK-A80-SRK25-115	80	25	115	44	53	58	M16×1	155.0	10	2.5
311.0010.323	HSK-A80-SRK32-120	80	32	120	44	56	61	M16×1	160.0	10	2.7

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0001.324	HSK-A100-SRK6-85	100	6	85	21	30	36	M5	135.0	10	2.2
311.0031.324	HSK-A100-SRK6-120	100	6	120	21	32	36	M5	170.0	10	2.5
311.0041.324	HSK-A100-SRK6-160	100	6	160	21	32	36	M5	210.0	10	2.7
311.0021.324	HSK-A100-SRK6-200	100	6	200	21	32	36	M5	250.0	10	2.9
311.0002.324	HSK-A100-SRK8-85	100	8	85	21	30	36	M6	135.0	10	2.2
311.0032.324	HSK-A100-SRK8-120	100	8	120	21	32	36	M6	170.0	10	2.5
311.0042.324	HSK-A100-SRK8-160	100	8	160	21	32	36	M6	210.0	10	2.7
311.0022.324	HSK-A100-SRK8-200	100	8	200	21	32	36	M6	250.0	10	2.9
311.0003.324	HSK-A100-SRK10-90	100	10	90	24	34	41	M8×1	140.0	10	2.4
311.0033.324	HSK-A100-SRK10-120	100	10	120	24	34	41	M8×1	170.0	10	2.6
311.0043.324	HSK-A100-SRK10-160	100	10	160	24	34	41	M8×1	210.0	10	2.8
311.0023.324	HSK-A100-SRK10-200	100	10	200	24	34	41	M8×1	250.0	10	3.1
311.0004.324	HSK-A100-SRK12-95	100	12	95	24	35	47	M10×1	145.0	10	2.4
311.0034.324	HSK-A100-SRK12-120	100	12	120	24	34	47	M10×1	170.0	10	2.6
311.0044.324	HSK-A100-SRK12-160	100	12	160	24	34	47	M10×1	210.0	10	2.8
311.0024.324	HSK-A100-SRK12-200	100	12	200	24	34	47	M10×1	250.0	10	3.1
311.0005.324	HSK-A100-SRK14-95	100	14	95	27	38	47	M10×1	145.0	10	2.5
311.0035.324	HSK-A100-SRK14-120	100	14	120	27	36	47	M10×1	170.0	10	2.6
311.0045.324	HSK-A100-SRK14-160	100	14	160	27	36	47	M10×1	210.0	10	2.9
311.0025.324	HSK-A100-SRK14-200	100	14	200	27	36	47	M10×1	250.0	10	3.2
311.0006.324	HSK-A100-SRK16-100	100	16	100	27	39	50	M12×1	150.0	10	2.6
311.0036.324	HSK-A100-SRK16-160	100	16	160	27	36	50	M12×1	210.0	10	2.9
311.0026.324	HSK-A100-SRK16-200	100	16	200	27	36	50	M12×1	250.0	10	3.2
311.0007.324	HSK-A100-SRK18-100	100	18	100	33	45	50	M12×1	150.0	10	2.8
311.0037.324	HSK-A100-SRK18-160	100	18	160	33	44	50	M12×1	210.0	10	3.4
311.0027.324	HSK-A100-SRK18-200	100	18	200	33	44	50	M12×1	250.0	10	3.8
311.0008.324	HSK-A100-SRK20-105	100	20	105	33	45	52	M16×1	155.0	10	2.8
311.0038.324	HSK-A100-SRK20-160	100	20	160	33	44	52	M16×1	210.0	10	3.4
311.0028.324	HSK-A100-SRK20-200	100	20	200	33	44	52	M16×1	250.0	10	3.8
311.0009.324	HSK-A100-SRK25-115	100	25	115	44	53	58	M16×1	165.0	10	3.3
311.0049.324	HSK-A100-SRK25-160	100	25	160	44	53	58	M16×1	210.0	10	4.0
311.0099.324	HSK-A100-SRK25-200	100	25	200	44	53	58	M16×1	250.0	10	4.6
311.0010.324	HSK-A100-SRK32-120	100	32	120	44	59	61	M16×1	170.0	10	3.7
311.0050.324	HSK-A100-SRK32-160	100	32	160	44	53	61	M16×1	210.0	10	4.0
311.0100.324	HSK-A100-SRK32-200	100	32	200	44	53	61	M16×1	250.0	10	4.6

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-v尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
Special shrinking devices are recommended for tool mounting and dismantling.

ACCESSORIES
配件

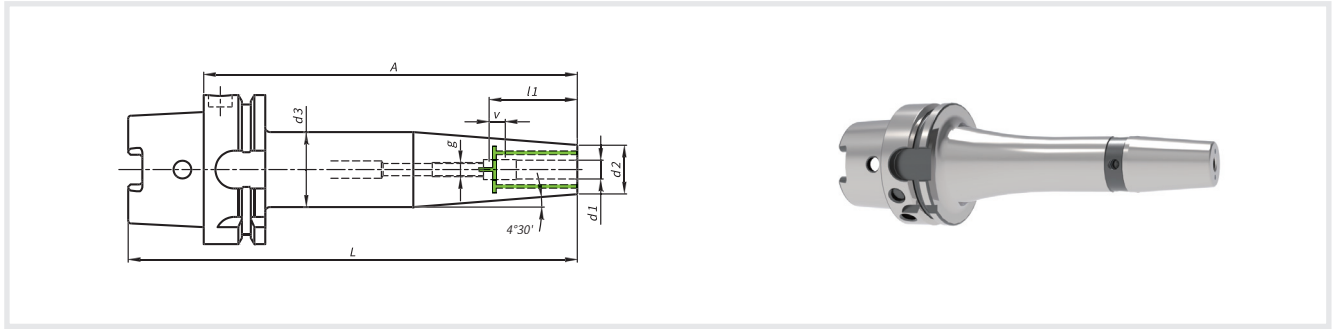
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热装夹头刀柄(端面冷却型)

i-tec® Shrink-fit Chuncks version



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.4401.322	HSK-A63-SRK6-80C2	63	6	80	21	30	36	M5	111.9	10	0.9
311.4461.322	HSK-A63-SRK6-120C2	63	6	120	21	27	36	M5	151.9	10	1.2
311.4481.322	HSK-A63-SRK6-160C2	63	6	160	21	27	36	M5	191.9	10	1.5
311.4491.322	HSK-A63-SRK6-200C2	63	6	200	21	27	36	M5	231.9	10	1.7
311.4402.322	HSK-A63-SRK8-80C2	63	8	80	21	30	36	M6	111.9	10	0.9
311.4462.322	HSK-A63-SRK8-120C2	63	8	120	21	27	36	M6	151.9	10	1.2
311.4482.322	HSK-A63-SRK8-160C2	63	8	160	21	27	36	M6	191.9	10	1.5
311.4492.322	HSK-A63-SRK8-200C2	63	8	200	21	27	36	M6	231.9	10	1.7
311.4403.322	HSK-A63-SRK10-85C2	63	10	85	24	33	41	M8×1	116.9	10	1.1
311.4463.322	HSK-A63-SRK10-120C2	63	10	120	24	32	41	M8×1	151.9	10	1.3
311.4483.322	HSK-A63-SRK10-160C2	63	10	160	24	32	41	M8×1	191.9	10	1.6
311.4493.322	HSK-A63-SRK10-200C2	63	10	200	24	32	41	M8×1	231.9	10	1.9
311.4404.322	HSK-A63-SRK12-90C2	63	12	90	24	34	47	M10×1	121.9	10	1.1
311.4464.322	HSK-A63-SRK12-120C2	63	12	120	24	32	47	M10×1	151.9	10	1.3
311.4484.322	HSK-A63-SRK12-160C2	63	12	160	24	32	47	M10×1	191.9	10	1.6
311.4494.322	HSK-A63-SRK12-200C2	63	12	200	24	32	47	M10×1	231.9	10	1.9
311.4405.322	HSK-A63-SRK14-90C2	63	14	90	27	37	47	M10×1	121.9	10	1.2
311.4465.322	HSK-A63-SRK14-120C2	63	14	120	27	34	47	M10×1	151.9	10	1.4
311.4485.322	HSK-A63-SRK14-160C2	63	14	160	27	34	47	M10×1	191.9	10	1.7
311.4495.322	HSK-A63-SRK14-200C2	63	14	200	27	34	47	M10×1	231.9	10	2.0
311.4406.322	HSK-A63-SRK16-95C2	63	16	95	27	38	50	M12×1	126.9	10	1.2
311.4466.322	HSK-A63-SRK16-120C2	63	16	120	27	34	50	M12×1	151.9	10	1.4
311.4486.322	HSK-A63-SRK16-160C2	63	16	160	27	34	50	M12×1	191.9	10	1.7
311.4496.322	HSK-A63-SRK16-200C2	63	16	200	27	34	50	M12×1	231.9	10	2.0
311.4407.322	HSK-A63-SRK18-95C2	63	18	95	33	44	50	M12×1	126.9	10	1.5
311.4467.322	HSK-A63-SRK18-120C2	63	18	120	33	42	50	M12×1	151.9	10	1.8
311.4487.322	HSK-A63-SRK18-160C2	63	18	160	33	42	50	M12×1	191.9	10	2.2
311.4497.322	HSK-A63-SRK18-200C2	63	18	200	33	42	50	M12×1	231.9	10	2.7
311.4408.322	HSK-A63-SRK20-100C2	63	20	100	33	45	52	M16×1	131.9	10	1.6
311.4468.322	HSK-A63-SRK20-120C2	63	20	120	33	42	52	M16×1	151.9	10	1.8
311.4488.322	HSK-A63-SRK20-160C2	63	20	160	33	42	52	M16×1	191.9	10	2.2
311.4498.322	HSK-A63-SRK20-200C2	63	20	200	33	42	52	M16×1	231.9	10	2.7

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.4409.322	HSK-A63-SRK25-115C2	63	25	115	44	52.5	58	M16×1	146.9	10	2.2
311.4489.322	HSK-A63-SRK25-160C2	63	25	160	44	52.5	58	M16×1	191.9	10	3.0
311.4499.322	HSK-A63-SRK25-200C2	63	25	200	44	52.5	58	M16×1	231.9	10	3.6
311.4460.322	HSK-A63-SRK32-120C2	63	32	120	44	52.5	61	M16×1	151.9	10	2.3
311.4490.322	HSK-A63-SRK32-160C2	63	32	160	44	52.5	61	M16×1	191.9	10	3.0
311.4500.322	HSK-A63-SRK32-200C2	63	32	200	44	52.5	61	M16×1	231.9	10	3.6
311.4451.324	HSK-A100-SRK6-85C2	100	6	85	21	27	36	M5	134.9	10	2.3
311.4461.324	HSK-A100-SRK6-120C2	100	6	120	21	27	36	M5	169.9	10	2.5
311.4481.324	HSK-A100-SRK6-160C2	100	6	160	21	27	36	M5	209.9	10	2.8
311.4491.324	HSK-A100-SRK6-200C2	100	6	200	21	27	36	M5	249.9	10	3.1
311.4452.324	HSK-A100-SRK8-85C2	100	8	85	21	27	36	M6	134.9	10	2.3
311.4462.324	HSK-A100-SRK8-120C2	100	8	120	21	27	36	M6	169.9	10	2.5
311.4482.324	HSK-A100-SRK8-160C2	100	8	160	21	27	36	M6	209.9	10	2.8
311.4492.324	HSK-A100-SRK8-200C2	100	8	200	21	27	36	M6	249.9	10	3.1
311.4453.324	HSK-A100-SRK10-90C2	100	10	90	24	32	41	M8×1	139.9	10	2.4
311.4463.324	HSK-A100-SRK10-120C2	100	10	120	24	32	41	M8×1	169.9	10	2.6
311.4483.324	HSK-A100-SRK10-160C2	100	10	160	24	32	41	M8×1	209.9	10	2.9
311.4493.324	HSK-A100-SRK10-200C2	100	10	200	24	32	41	M8×1	249.9	10	3.2
311.4454.324	HSK-A100-SRK12-95C2	100	12	95	24	32	47	M10×1	145.0	10	2.4
311.4464.324	HSK-A100-SRK12-120C2	100	12	120	24	32	47	M10×1	170.0	10	2.6
311.4484.324	HSK-A100-SRK12-160C2	100	12	160	24	32	47	M10×1	210.0	10	2.8
311.4494.324	HSK-A100-SRK12-200C2	100	12	200	24	32	47	M10×1	250.0	10	3.1
311.4455.324	HSK-A100-SRK14-95C2	100	14	95	27	34	47	M10×1	145.0	10	2.5
311.4465.324	HSK-A100-SRK14-120C2	100	14	120	27	34	47	M10×1	170.0	10	2.6
311.4485.324	HSK-A100-SRK14-160C2	100	14	160	27	34	47	M10×1	210.0	10	2.9
311.4495.324	HSK-A100-SRK14-200C2	100	14	200	27	34	47	M10×1	250.0	10	3.2
311.4456.324	HSK-A100-SRK16-100C2	100	16	100	27	34	50	M12×1	150.0	10	2.6
311.4486.324	HSK-A100-SRK16-160C2	100	16	160	27	34	50	M12×1	210.0	10	2.9
311.4496.324	HSK-A100-SRK16-200C2	100	16	200	27	34	50	M12×1	250.0	10	3.2
311.4457.324	HSK-A100-SRK18-100C2	100	18	100	33	42	50	M12×1	150.0	10	2.8
311.4487.324	HSK-A100-SRK18-160C2	100	18	160	33	42	50	M12×1	210.0	10	3.4
311.4497.324	HSK-A100-SRK18-200C2	100	18	200	33	42	50	M12×1	250.0	10	3.8
311.4458.324	HSK-A100-SRK20-105C2	100	20	105	33	42	52	M16×1	155.0	10	2.8
311.4488.324	HSK-A100-SRK20-160C2	100	20	160	33	42	52	M16×1	210.0	10	3.4
311.4498.324	HSK-A100-SRK20-200C2	100	20	200	33	42	52	M16×1	250.0	10	3.8
311.4459.324	HSK-A100-SRK25-115C2	100	25	115	44	52.5	58	M16×1	165.0	10	3.3
311.4489.324	HSK-A100-SRK25-160C2	100	25	160	44	52.5	58	M16×1	210.0	10	4.0
311.4499.324	HSK-A100-SRK25-200C2	100	25	200	44	52.5	58	M16×1	250.0	10	4.6
311.4460.324	HSK-A100-SRK32-120C2	100	32	120	44	52.5	61	M16×1	170.0	10	3.7
311.4490.324	HSK-A100-SRK32-160C2	100	32	160	44	52.5	61	M16×1	210.0	10	4.0
311.4500.324	HSK-A100-SRK32-200C2	100	32	200	44	52.5	61	M16×1	250.0	10	4.6

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-v尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
 - 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismounted or toolholder damage and so on.
- Special shrinking devices are recommended for tool mounting and dismounting.

ACCESSORIES

配件



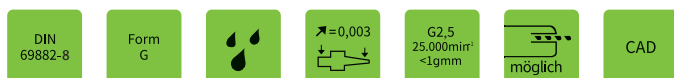
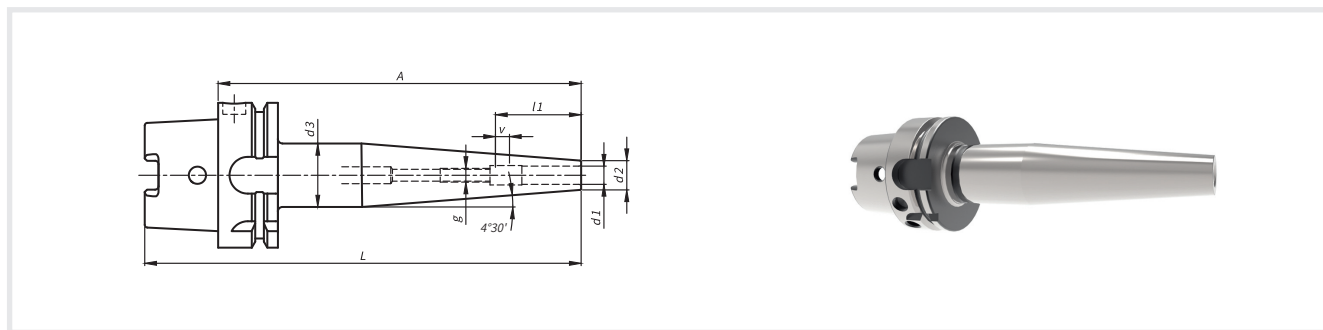
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热装夹头刀柄(细长型)

i-tec® Shrink-fit Chunks silm version



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0703.322	HSK-A63-SRK6-120SL	63	6	120	15	30	36	M5	152.0	10	1.1
311.0713.322	HSK-A63-SRK6-160SL	63	6	160	15	30	36	M5	192.0	10	1.3
311.0791.322	HSK-A63-SRK6-200SL	63	6	200	15	30	36	M5	232.0	10	1.5
311.0704.322	HSK-A63-SRK8-120SL	63	8	120	15	30	36	M6	152.0	10	1.1
311.0714.322	HSK-A63-SRK8-160SL	63	8	160	15	30	36	M6	192.0	10	1.3
311.0792.322	HSK-A63-SRK8-200SL	63	8	200	15	30	36	M6	232.0	10	1.5
311.0705.322	HSK-A63-SRK10-120SL	63	10	120	18	33	41	M8×1	152.0	10	1.2
311.0715.322	HSK-A63-SRK10-160SL	63	10	160	18	32	41	M8×1	192.0	10	1.4
311.0793.322	HSK-A63-SRK10-200SL	63	10	200	18	32	41	M8×1	232.0	10	1.6
311.0706.322	HSK-A63-SRK12-120SL	63	12	120	18	33	47	M10×1	152.0	10	1.2
311.0716.322	HSK-A63-SRK12-160SL	63	12	160	18	32	47	M10×1	192.0	10	1.4
311.0794.322	HSK-A63-SRK12-200SL	63	12	200	18	32	47	M10×1	232.0	10	1.6
311.0703.324	HSK-A100-SRK6-120SL	100	6	120	15	30	36	M5	170.0	10	2.4
311.0713.324	HSK-A100-SRK6-160SL	100	6	160	15	30	36	M5	210.0	10	2.6
311.0791.324	HSK-A100-SRK6-200SL	100	6	200	15	30	36	M5	250.0	10	2.8
311.0704.324	HSK-A100-SRK8-120SL	100	8	120	15	30	36	M6	170.0	10	2.4
311.0714.324	HSK-A100-SRK8-160SL	100	8	160	15	30	36	M6	210.0	10	2.6
311.0792.324	HSK-A100-SRK8-200SL	100	8	200	15	30	36	M6	250.0	10	2.8
311.0705.324	HSK-A100-SRK10-120SL	100	10	120	18	33	41	M8×1	170.0	10	2.5
311.0715.324	HSK-A100-SRK10-160SL	100	10	160	18	32	41	M8×1	210.0	10	2.7
311.0793.324	HSK-A100-SRK10-200SL	100	10	200	18	32	41	M8×1	250.0	10	2.9
311.0706.324	HSK-A100-SRK12-120SL	100	12	120	18	33	47	M10×1	170.0	10	2.5
311.0716.324	HSK-A100-SRK12-160SL	100	12	160	18	32	47	M10×1	210.0	10	2.7
311.0794.324	HSK-A100-SRK12-200SL	100	12	200	18	32	47	M10×1	250.0	10	2.9

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-v尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议方向专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
 - 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- Special shrinking devices are recommended for tool mounting and dismantling.

ACCESSORIES

配件



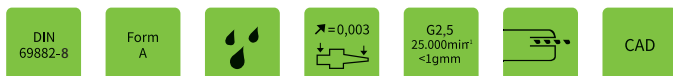
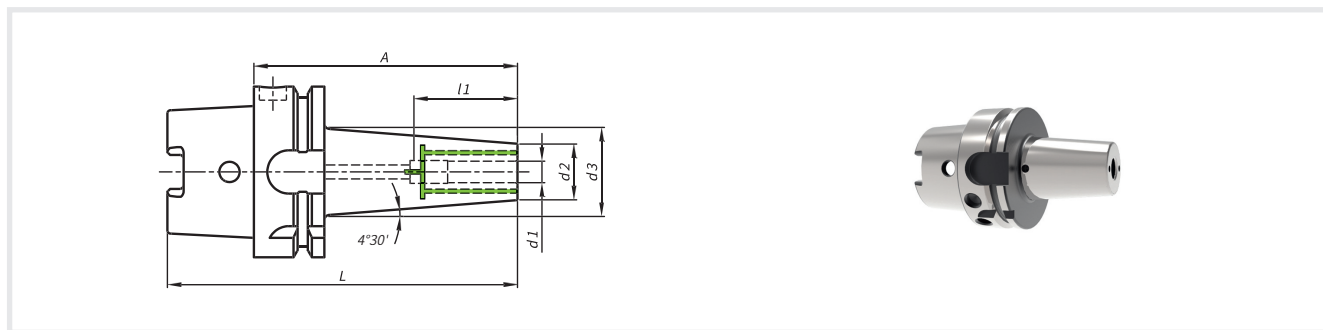
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热装夹头刀柄 (超短型)

i-tec® Shrink-fit Chunks ultra short version



No.	Model	Size	d1	A	d2	d3	l1	L	Kg
311.4353.322	HSK-A63-SRK10-70C2	63	10	70	26	33	41	102	0.9
311.4354.322	HSK-A63-SRK12-70C2	63	12	70	26	33	45	102	0.9
311.4356.322	HSK-A63-SRK16-75C2	63	16	75	29	37	50	107	1.0
311.4358.322	HSK-A63-SRK20-75C2	63	20	75	35	43	50	107	1.1
311.4359.322	HSK-A63-SRK25-85C2	63	25	85	45	53	59	117	1.6

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-v尺寸, 否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
 - 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- Special shrinking devices are recommended for tool mounting and dismantling.

ACCESSORIES

配件

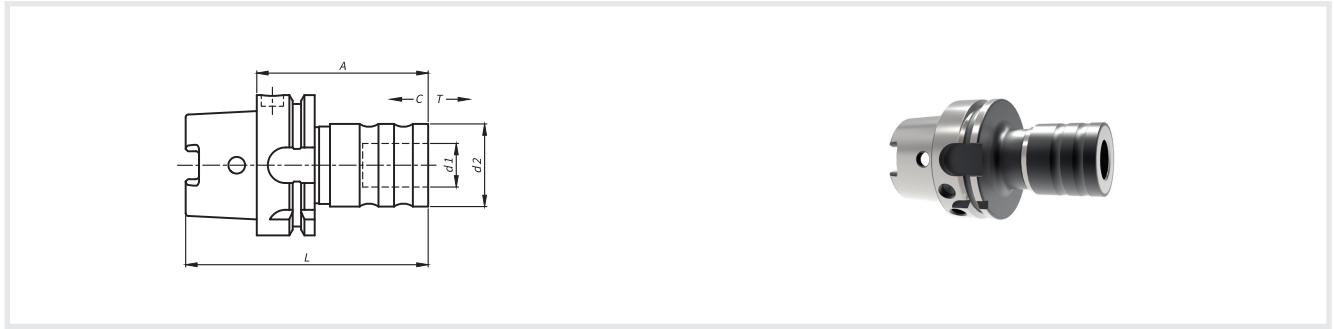


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丝锥快换夹头刀柄

Quick Change Tapping Chucks



No.	Model	Size	M	A	d1	d2	L	C	T	kg
440.0011.320	HSK-A40-G3-73	40	M3-M14	73	19	36	93	6.5	7.5	0.6
440.0011.321	HSK-A50-G3-77	50	M3-M14	77	19	36	102	6.5	7.5	0.7
440.0011.322	HSK-A63-G3-79	63	M3-M14	79	19	36	111	6.5	7.5	1.0
440.0012.322	HSK-A63-G8-113	63	M4.5-M24	113	31	53	145	8.5	15	2.0
440.0011.323	HSK-A80-G3-83.5	80	M3-M14	83.5	19	36	123.5	6.5	7.5	1.5
440.0012.323	HSK-A80-G8-117.5	80	M4.5-M24	117.5	31	53	157.5	8.5	15	2.5
440.0158.161	HSK-A100-G3-100	100	M3-M14	100	19	36	150	6.5	7.5	2.5
440.0011.324	HSK-A100-G8-119.5	100	M4.5-M24	119.5	31	53	169.5	8.5	15	3.4
440.0159.161	HSK-A100-G14-200	100	M14-M33	200	48	78	250	15	23	7.7

使用方向:用于夹持带或不带安全机构的快换丝锥夹套。

Use: For holding quick changeinserts with or without safety clutch.

设计:

Design:

- 1.长度补偿在收缩和拉伸方向取决于进给和螺距的不同。
- 2.当攻丝的轴向力达到临界值时会立即切断攻丝,以避免拉力释放时,夹套因承受过大轴向拉力造成不可逆的损害。

1. Length compensation on compression and tension to compensate the difference between feed and tap pitch.
- 2.The pressure point mechanism guarantees that the tap immediately cuts the thread as soon as the permissible axial force is reached.

注意:其他型号和尺寸可按订货要求制作。

The tension lock protects the tapping chuck against damage as a result of high axial tensile load.


Note:Other designs and sizes are available on request.

ACCESSORIES

配件

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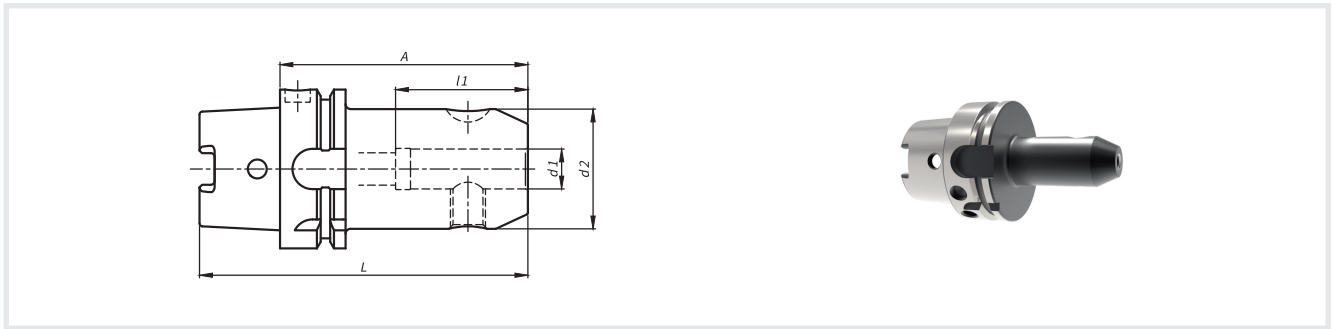
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削平型直柄立铣刀柄(威尔顿凹口型)

Reduction Sleeves for Straight Shanks with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	L	Tol./d1	Screw	kg
420.0001.320	HSK-A40-EM6-60	40	6	60	25	35	80	+0.005	M6X10	0.3
420.0002.320	HSK-A40-EM8-60	40	8	60	28	35	80	+0.005	M8X10	0.4
420.0003.320	HSK-A40-EM10-60	40	10	60	35	39	80	+0.005	M10X12	0.5
420.0004.320	HSK-A40-EM12-70	40	12	70	42	44	90	+0.005	M12X16	0.7
420.0005.320	HSK-A40-EM14-75	40	14	75	44	44	95	+0.005	M12X16	0.8
420.0006.320	HSK-A40-EM16-75	40	16	75	48	47	95	+0.005	M14X16	0.9
420.0001.321	HSK-A50-EM6-65	50	6	65	25	35	90	+0.005	M6X10	0.5
420.0002.321	HSK-A50-EM8-65	50	8	65	28	35	90	+0.005	M8X10	0.5
420.0003.321	HSK-A50-EM10-65	50	10	65	35	39	90	+0.005	M10X12	0.6
420.0004.321	HSK-A50-EM12-80	50	12	80	42	44	105	+0.005	M12X16	0.9
420.0005.321	HSK-A50-EM14-80	50	14	80	44	44	105	+0.005	M12X16	1.0
420.0006.321	HSK-A50-EM16-80	50	16	80	48	47	105	+0.005	M14X16	1.1
420.0007.321	HSK-A50-EM18-80	50	18	80	50	47	105	+0.005	M14X16	1.1
420.0008.321	HSK-A50-EM20-80	50	20	80	52	49	105	+0.007	M16X16	1.2
420.0001.322	HSK-A63-EM6-65	63	6	65	25	35	97	+0.005	M6X10	0.8
420.0031.322	HSK-A63-EM6-120	63	6	120	25	35	152	+0.005	M6X10	1.0
420.0002.322	HSK-A63-EM8-65	63	8	65	28	35	97	+0.005	M8X10	0.8
420.0032.322	HSK-A63-EM8-120	63	8	120	28	35	152	+0.005	M8X10	1.0
420.0003.322	HSK-A63-EM10-65	63	10	65	35	39	97	+0.005	M10X12	0.9
420.0033.322	HSK-A63-EM10-120	63	10	120	35	39	152	+0.005	M10X12	1.3
420.0004.322	HSK-A63-EM12-80	63	12	80	42	44	112	+0.005	M12X16	1.2
420.0034.322	HSK-A63-EM12-120	63	12	120	42	44	152	+0.005	M12X16	1.6
420.0005.322	HSK-A63-EM14-80	63	14	80	44	44	112	+0.005	M12X16	1.2
420.0035.322	HSK-A63-EM14-120	63	14	120	44	44	152	+0.005	M12X16	1.6
420.0006.322	HSK-A63-EM16-80	63	16	80	48	47	112	+0.005	M14X16	1.3
420.0036.322	HSK-A63-EM16-120	63	16	120	48	47	152	+0.005	M14X16	1.8
420.0007.322	HSK-A63-EM18-80	63	18	80	50	47	112	+0.005	M14X16	1.4
420.0037.322	HSK-A63-EM18-120	63	18	120	50	47	152	+0.005	M14X16	1.9
420.0008.322	HSK-A63-EM20-80	63	20	80	52	49	112	+0.007	M16X16	1.4
420.0038.322	HSK-A63-EM20-120	63	20	120	52	49	152	+0.007	M16X16	2.0
420.0009.322	HSK-A63-EM25-110	63	25	110	65	54	142	+0.007	M18X2X20	2.6
420.0010.322	HSK-A63-EM32-110	63	32	110	72	58	142	+0.007	M20X2X20	3.0

No.	Model	Size	d1	A	d2	l1	L	Tol./d1	Screw	kg
420.0001.323	HSK-A80-EM6-80	80	6	80	25	35	120	+0.005	M6X10	1.3
420.0002.323	HSK-A80-EM8-80	80	8	80	28	35	120	+0.005	M8X10	1.3
420.0003.323	HSK-A80-EM10-80	80	10	80	35	39	120	+0.005	M10X12	1.4
420.0004.323	HSK-A80-EM12-80	80	12	80	42	44	120	+0.005	M12X16	1.6
420.0005.323	HSK-A80-EM14-80	80	14	80	44	44	120	+0.005	M12X16	1.7
420.0006.323	HSK-A80-EM16-100	80	16	100	48	47	140	+0.005	M14X16	2.0
420.0007.323	HSK-A80-EM18-100	80	18	100	50	47	140	+0.005	M14X16	2.1
420.0008.323	HSK-A80-EM20-100	80	20	100	52	49	140	+0.007	M16X16	2.2
420.0009.323	HSK-A80-EM25-100	80	25	100	65	54	140	+0.007	M18X2X20	2.8
420.0010.323	HSK-A80-EM32-110	80	32	110	72	58	150	+0.007	M20X2X20	3.5
420.0001.324	HSK-A100-EM6-80	100	6	80	25	35	130	+0.005	M6X10	2.1
420.0041.324	HSK-A100-EM6-160	100	6	160	25	35	210	+0.005	M6X10	2.4
420.0002.324	HSK-A100-EM8-80	100	8	80	28	35	130	+0.005	M8X10	2.2
420.0042.324	HSK-A100-EM8-160	100	8	160	28	35	210	+0.005	M8X10	2.5
420.0003.324	HSK-A100-EM10-80	100	10	80	35	39	130	+0.005	M10X12	2.3
420.0043.324	HSK-A100-EM10-160	100	10	160	35	39	210	+0.005	M10X12	2.9
420.0004.324	HSK-A100-EM12-80	100	12	80	42	44	130	+0.005	M12X16	2.5
420.0044.324	HSK-A100-EM12-160	100	12	160	42	44	210	+0.005	M12X16	3.3
420.0005.324	HSK-A100-EM14-80	100	14	80	44	44	130	+0.005	M12X16	2.5
420.0045.324	HSK-A100-EM14-160	100	14	160	44	44	210	+0.005	M12X16	3.4
420.0006.324	HSK-A100-EM16-100	100	16	100	48	47	150	+0.005	M14X16	2.9
420.0046.324	HSK-A100-EM16-160	100	16	160	48	47	210	+0.005	M14X16	3.6
420.0007.324	HSK-A100-EM18-100	100	18	100	50	47	150	+0.005	M14X16	3.0
420.0047.324	HSK-A100-EM18-160	100	18	160	50	47	210	+0.005	M14X16	3.8
420.0008.324	HSK-A100-EM20-100	100	20	100	52	49	150	+0.007	M16X16	3.0
420.0048.324	HSK-A100-EM20-160	100	20	160	52	49	210	+0.007	M16X16	3.9
420.0009.324	HSK-A100-EM25-100	100	25	100	65	54	150	+0.007	M18X2X20	3.6
420.0049.324	HSK-A100-EM25-160	100	25	160	65	54	210	+0.007	M18X2X20	5.0
420.0010.324	HSK-A100-EM32-100	100	32	100	72	58	150	+0.007	M20X2X20	4.0
420.0050.324	HSK-A100-EM32-160	100	32	160	72	58	210	+0.007	M20X2X20	5.7
420.0011.324	HSK-A100-EM40-120	100	40	120	80	75	170	+0.007	M20X2X20	5.2

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

注意:

Note:

- 1.带孔的调整螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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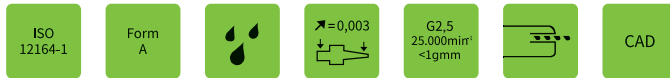
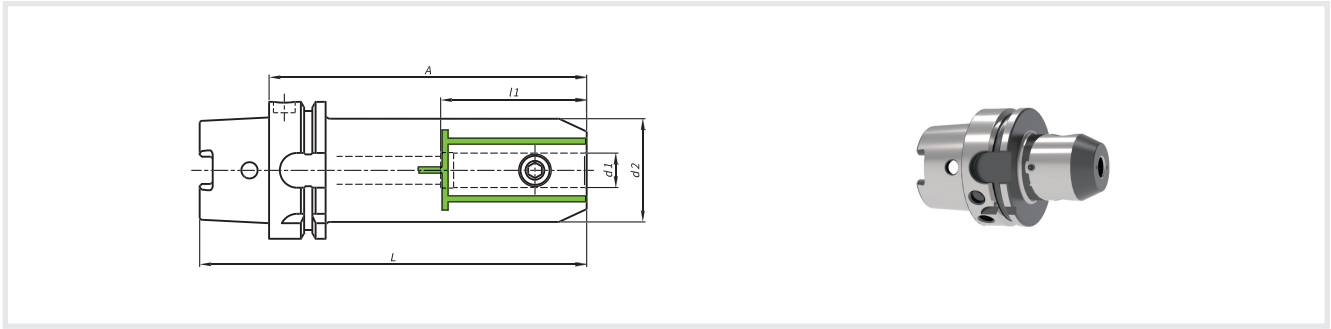
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削平型直柄立铣刀柄(端面冷却型)

Reduction Sleeves for Straight Shanks with inclined driving surface version



No.	Model	Size	d1	A	d2	l1	L	Tol./d1	Screw	kg
420.4401.322	HSK-A63-EM6-65C	63	6	65	25	35	97	+0.005	M6X10	0.8
420.4402.322	HSK-A63-EM8-65C	63	8	65	28	35	97	+0.005	M8X10	0.8
420.4403.322	HSK-A63-EM10-65C	63	10	65	35	39	97	+0.005	M10X12	0.9
420.4404.322	HSK-A63-EM12-80C	63	12	80	42	44	112	+0.005	M12X16	1.2
420.4406.322	HSK-A63-EM16-80C	63	16	80	48	47	112	+0.005	M14X16	1.3
420.4408.322	HSK-A63-EM20-80C	63	20	80	52	49	112	+0.007	M16X16	1.4
420.4409.322	HSK-A63-EM25-110C	63	25	110	65	54	142	+0.007	M18X2X20	2.6
420.4410.322	HSK-A63-EM32-110C	63	32	110	72	58	142	+0.007	M20X2X20	3.0

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

注意:

Note:

- 1.带孔的调整螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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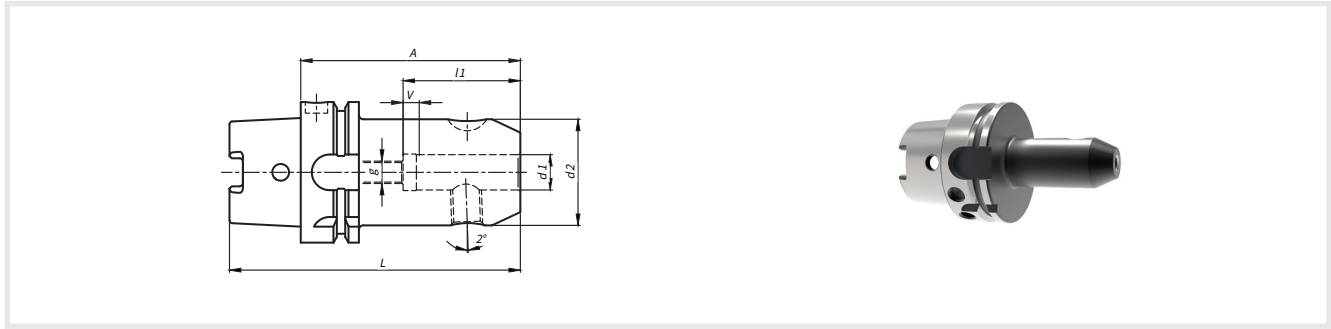
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2°斜削平型直柄立铣刀柄(威斯尔凹口型)

Reduction Sleeves for Straight Shanks 2° with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	g	L	Tol./d1	Screw	kg
420.0151.320	HSK-A40-EME6-80	40	6	80	25	38	M5	100	+0.005	M6X10	0.4
420.0152.320	HSK-A40-EME8-80	40	8	80	28	38	M6	100	+0.005	M8X10	0.4
420.0153.320	HSK-A40-EME10-80	40	10	80	35	41	M8	100	+0.005	M10X12	0.6
420.0154.320	HSK-A40-EME12-90	40	12	90	42	47	M10	110	+0.005	M12X16	0.9
420.0155.320	HSK-A40-EME14-90	40	14	90	44	47	M10	110	+0.005	M12X16	0.9
420.0156.320	HSK-A40-EME16-90	40	16	90	48	50	M12	110	+0.005	M14X16	1.1
420.0151.321	HSK-A50-EME6-80	50	6	80	25	38	M5	105	+0.005	M6X10	0.6
420.0152.321	HSK-A50-EME8-80	50	8	80	28	38	M6	105	+0.005	M8X10	0.6
420.0153.321	HSK-A50-EME10-80	50	10	80	35	41	M8	105	+0.005	M10X12	0.7
420.0154.321	HSK-A50-EME12-90	50	12	90	42	47	M10	115	+0.005	M12X16	1.0
420.0155.321	HSK-A50-EME14-90	50	14	90	44	47	M10	115	+0.005	M12X16	1.1
420.0156.321	HSK-A50-EME16-90	50	16	90	48	50	M12	115	+0.005	M14X16	1.2
420.0157.321	HSK-A50-EME18-90	50	18	90	50	50	M12	115	+0.005	M14X16	1.3
420.0158.321	HSK-A50-EME20-100	50	20	100	52	52	M16	125	+0.007	M16X16	1.5
420.0151.322	HSK-A63-EME6-80	63	6	80	25	38	M5	112	+0.005	M6X10	0.8
420.0152.322	HSK-A63-EME8-80	63	8	80	28	38	M6	112	+0.005	M8X10	0.9
420.0153.322	HSK-A63-EME10-80	63	10	80	35	41	M8	112	+0.005	M10X12	1.0
420.0154.322	HSK-A63-EME12-90	63	12	90	42	47	M10	122	+0.005	M12X16	1.3
420.0155.322	HSK-A63-EME14-90	63	14	90	44	47	M10	122	+0.005	M12X16	1.3
420.0156.322	HSK-A63-EME16-100	63	16	100	48	50	M12	132	+0.005	M14X16	1.6
420.0157.322	HSK-A63-EME18-100	63	18	100	50	50	M12	132	+0.005	M14X16	1.7
420.0158.322	HSK-A63-EME20-100	63	20	100	52	52	M16	132	+0.007	M16X16	1.7
420.0159.322	HSK-A63-EME25-110	63	25	110	65	58	M20	142	+0.007	M18X2X20	2.6
420.0160.322	HSK-A63-EME32-110	63	32	110	72	61	M20	142	+0.007	M20X2X20	3.0
420.0151.323	HSK-A80-EME6-90	80	6	90	25	38	M5	130	+0.005	M6X10	1.3
420.0152.323	HSK-A80-EME8-90	80	8	90	28	38	M6	130	+0.005	M8X10	1.4
420.0153.323	HSK-A80-EME10-90	80	10	90	35	41	M8	130	+0.005	M10X12	1.5
420.0154.323	HSK-A80-EME12-100	80	12	100	42	47	M10	140	+0.005	M12X16	1.8
420.0155.323	HSK-A80-EME14-100	80	14	100	44	47	M10	140	+0.005	M12X16	1.9

HSK 刀柄

No.	Model	Size	d1	A	d2	l1	g	L	Tol./d1	Screw	kg
420.0156.323	HSK-A80-EME16-100	80	16	100	48	50	M12	140	+0.005	M14X16	2.0
420.0157.323	HSK-A80-EME18-100	80	18	100	50	50	M12	140	+0.005	M14X16	2.1
420.0158.323	HSK-A80-EME20-110	80	20	110	52	52	M16	150	+0.007	M16X16	2.3
420.0159.323	HSK-A80-EME25-110	80	25	110	65	58	M20	150	+0.007	M18X2X20	3.1
420.0160.323	HSK-A80-EME32-120	80	32	120	72	61	M20	160	+0.007	M20X2X20	3.8
420.0151.324	HSK-A100-EME6-90	100	6	90	25	38	M5	140	+0.005	M6X10	2.2
420.0152.324	HSK-A100-EME8-90	100	8	90	28	38	M6	140	+0.005	M8X10	2.2
420.0153.324	HSK-A100-EME10-90	100	10	90	35	41	M8	140	+0.005	M10X12	2.4
420.0154.324	HSK-A100-EME12-100	100	12	100	42	47	M10	150	+0.005	M12X16	2.7
420.0155.324	HSK-A100-EME14-100	100	14	100	44	47	M10	150	+0.005	M12X16	2.7
420.0156.324	HSK-A100-EME16-100	100	16	100	48	50	M12	150	+0.005	M14X16	2.9
420.0157.324	HSK-A100-EME18-100	100	18	100	50	50	M12	150	+0.005	M14X16	3.0
420.0158.324	HSK-A100-EME20-110	100	20	110	52	52	M16	160	+0.007	M16X16	3.2
420.0159.324	HSK-A100-EME25-120	100	25	120	65	58	M20	170	+0.007	M18X2X20	4.1
420.0160.324	HSK-A100-EME32-120	100	32	120	72	61	M20	170	+0.007	M20X2X20	4.6

使用方向:此2°刀柄按 DIN 1835E型和DIN 6535 HE型夹持直柄铣刀。

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

注意:

- 1.带孔的调整螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

Use: For holding shank tools with inclined clamping with 2 angle, DIN 1835 E and DIN 6535 HE.

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

Note:

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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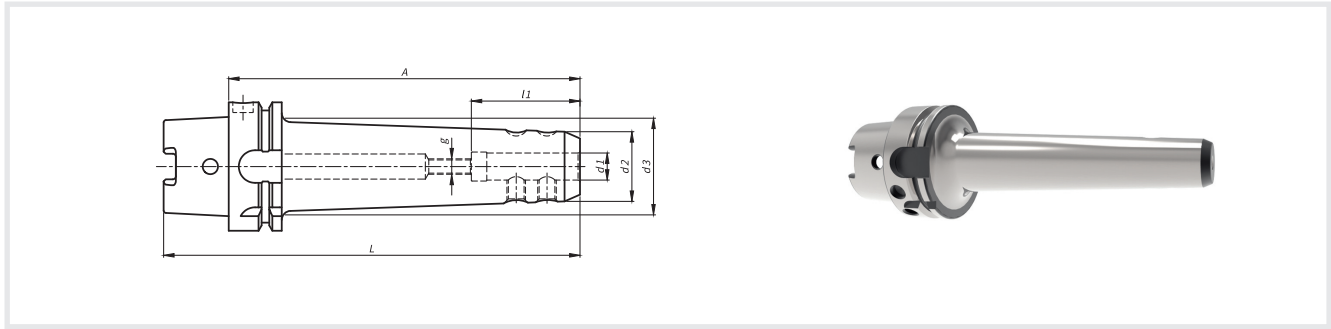
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削平型直柄立铣刀柄(细长型)

Reduction Sleeves for Straight Shanks with inclined driving surface slim



No.	Model	Size	d1	A	d2	d3	l1	g	L	Tol./d1	Screw	kg
420.0701.322	HSK-A63-EM6-100SL	63	6	100	22	27	38	M5	132	+0.005	M6X10	0.8
420.0702.322	HSK-A63-EM6-160SL	63	6	160	22	32	38	M5	192	+0.005	M6X10	1.0
420.0703.322	HSK-A63-EM8-100SL	63	8	100	24	29	38	M6	132	+0.005	M8X10	0.9
420.0704.322	HSK-A63-EM8-160SL	63	8	160	24	34	38	M6	192	+0.005	M8X10	1.1
420.0705.322	HSK-A63-EM10-100SL	63	10	100	25	31	41	M8	132	+0.005	M10X12	0.9
420.0706.322	HSK-A63-EM10-160SL	63	10	160	25	38	41	M8	192	+0.005	M10X12	1.1
420.0707.322	HSK-A63-EM12-100SL	63	12	100	26	34	47	M10	132	+0.005	M12X16	0.9
420.0708.322	HSK-A63-EM12-160SL	63	12	160	26	42	47	M10	192	+0.005	M12X16	1.1
420.0709.322	HSK-A63-EM14-100SL	63	14	100	28	37	47	M10	132	+0.005	M12X16	1.0
420.0710.322	HSK-A63-EM14-160SL	63	14	160	28	46	47	M10	192	+0.005	M12X16	1.2
420.0711.322	HSK-A63-EM16-100SL	63	16	100	30	38	50	M12	132	+0.005	M14X16	1.0
420.0712.322	HSK-A63-EM16-160SL	63	16	160	30	44	50	M12	192	+0.005	M14X16	1.3
420.0713.322	HSK-A63-EM18-100SL	63	18	100	32	39	50	M12	132	+0.005	M14X16	1.1
420.0714.322	HSK-A63-EM18-160SL	63	18	160	32	46	50	M12	192	+0.005	M14X16	1.4
420.0715.322	HSK-A63-EM20-100SL	63	20	100	34	42	52	M16	132	+0.007	M16X16	1.1
420.0716.322	HSK-A63-EM20-160SL	63	20	160	34	50	52	M16	192	+0.007	M16X16	1.5

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。
出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

注意:

- 1.带孔的调整螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

Standard Specification:With clamping screw.From location hole d1 = 25mm two clamping screws are included.

Note:

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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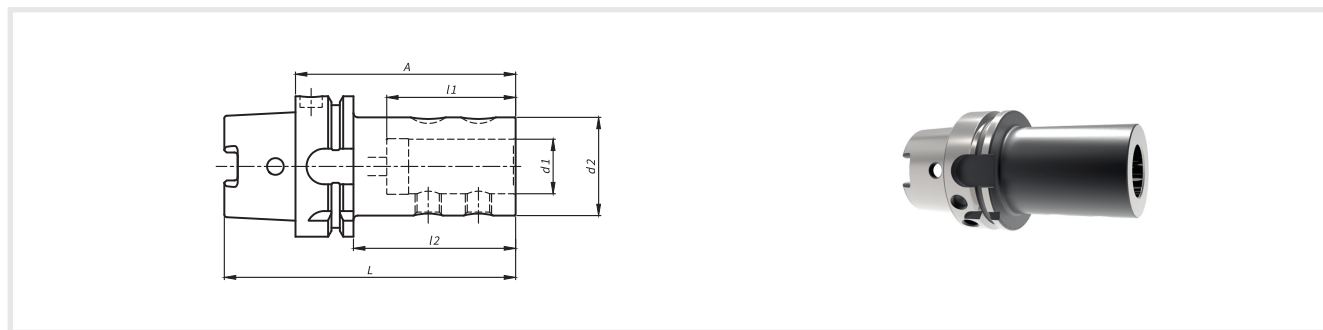
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削平型浅孔钻刀柄

Indexable Drill Holders



No.	Model	Size	d1	A	d2	l1	l2	L	kg
590.0001.322	HSK-A63-EMU20-80	63	20	80	40	54	54	111.9	1.0
590.0002.322	HSK-A63-EMU25-90	63	25	90	45	59	64	121.9	1.2
590.0003.322	HSK-A63-EMU32-90	63	32	90	52	63	64	121.9	1.3
590.0001.324	HSK-A100-EMU20-90	100	20	90	40	54	61	139.9	2.4
590.0002.324	HSK-A100-EMU25-95	100	25	95	45	59	66	144.9	2.6
590.0003.324	HSK-A100-EMU32-100	100	32	100	52	63	71	149.9	2.8
590.0004.324	HSK-A100-EMU40-110	100	40	110	60	73	81	159.9	3.0

使用方向:用于夹持的浅孔钻柄部符合DIN 6595和ISO9766。

Use: For holding Indexable Drills with shaft according to DIN 6595 and ISO 9766.

设计:螺纹孔的位置与夹持的浅孔钻柄部根据DIN 6595设有0.4mm的错位间隙,螺钉连接时可拉紧浅孔钻。

Design: Position of the front threaded pin opposite the countersunk point in straight shank offset by 0.4mm according to DIN 6595. The offset allows the flange of the drill to be clamped against the contact face of the tool holder when the threaded pin is tightened.

出厂标准产品包括:包括夹紧螺钉。

Standard Specification:Clamping screw included.

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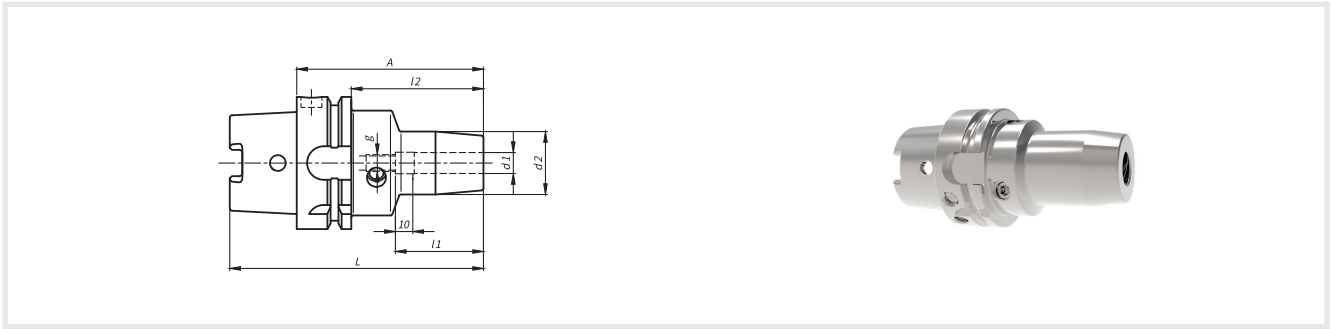
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液压夹头刀柄

Hydraulic Expansion Chunks



No.	Model	Size	d1	A	d2	l1	l2	g	L	kg
702.0001.321	HSK-A50-HD6-70	50	6	70	26	37	44	M5	95	0.7
702.0002.321	HSK-A50-HD8-70	50	8	70	28	37	44	M6	95	0.7
702.0003.321	HSK-A50-HD10-80	50	10	80	30	41	54	M6	105	0.7
702.0004.321	HSK-A50-HD12-85	50	12	85	32	46	59	M6	110	0.8
702.0005.321	HSK-A50-HD14-85	50	14	85	34	46	59	M6	110	0.8
702.0006.321	HSK-A50-HD16-90	50	16	90	38	49	64	M6	115	0.9
702.0007.321	HSK-A50-HD18-90	50	18	90	40	49	64	M6	115	0.9
702.0008.321	HSK-A50-HD20-90	50	20	90	41.5	51	64	M6	115	0.9
702.0001.322	HSK-A63-HD6-70	63	6	70	26	37	44	M5	102	1.0
702.0031.322	HSK-A63-HD6-150	63	6	150	26	37	124	M5	182	1.3
702.0032.322	HSK-A63-HD6-200	63	6	200	26	37	174	M5	232	1.4
702.0002.322	HSK-A63-HD8-70	63	8	70	28	37	44	M6	102	1.0
702.0033.322	HSK-A63-HD8-150	63	8	150	28	37	124	M6	182	1.3
702.0034.322	HSK-A63-HD8-200	63	8	200	28	37	174	M6	232	1.5
702.0003.322	HSK-A63-HD10-80	63	10	80	30	41	54	M8	112	1.1
702.0035.322	HSK-A63-HD10-150	63	10	150	30	41	124	M8	182	1.4
702.0036.322	HSK-A63-HD10-200	63	10	200	30	41	174	M8	232	1.6
702.0004.322	HSK-A63-HD12-85	63	12	85	32	46	59	M10	117	1.1
702.0037.322	HSK-A63-HD12-150	63	12	150	32	46	124	M10	182	1.5
702.0038.322	HSK-A63-HD12-200	63	12	200	32	46	174	M10	232	1.7
702.0005.322	HSK-A63-HD14-85	63	14	85	34	46	59	M10	117	1.2
702.0039.322	HSK-A63-HD14-150	63	14	150	34	46	124	M10	182	1.5
702.0040.322	HSK-A63-HD14-200	63	14	200	34	46	174	M10	232	1.8
702.0006.322	HSK-A63-HD16-90	63	16	90	38	49	64	M10	122	1.2
702.0041.322	HSK-A63-HD16-150	63	16	150	38	49	124	M10	182	1.7
702.0042.322	HSK-A63-HD16-200	63	16	200	38	49	174	M10	232	2.0
702.0007.322	HSK-A63-HD18-90	63	18	90	40	49	64	M10	122	1.3
702.0043.322	HSK-A63-HD18-150	63	18	150	40	49	124	M10	182	1.8
702.0044.322	HSK-A63-HD18-200	63	18	200	40	49	174	M10	232	2.1

No.	Model	Size	d1	A	d2	l1	l2	g	L	kg
702.0008.322	HSK-A63-HD20-90	63	20	90	42	51	64	M10	122	1.3
702.0045.322	HSK-A63-HD20-150	63	20	150	42	51	124	M10	182	1.8
702.0046.322	HSK-A63-HD20-200	63	20	200	42	51	174	M10	232	2.3
702.0009.322	HSK-A63-HD25-120	63	25	120	50	57	94	M16	152	1.9
702.0010.322	HSK-A63-HD32-125	63	32	125	63	61	99	M16	157	2.6
702.0001.324	HSK-A100-HD6-75	100	6	75	26	37	46	M5	125	2.4
702.0002.324	HSK-A100-HD8-75	100	8	75	28	37	46	M6	125	2.4
702.0003.324	HSK-A100-HD10-90	100	10	90	30	41	61	M8	140	2.5
702.0004.324	HSK-A100-HD12-95	100	12	95	32	46	66	M10	145	2.6
702.0005.324	HSK-A100-HD14-95	100	14	95	34	46	66	M10	145	2.6
702.0006.324	HSK-A100-HD16-100	100	16	100	38	49	71	M12	150	2.7
702.0007.324	HSK-A100-HD18-100	100	18	100	40	49	71	M12	150	2.7
702.0008.324	HSK-A100-HD20-105	100	20	105	42	51	76	M12	155	2.8
702.0009.324	HSK-A100-HD25-115	100	25	115	55	57	86	M16	165	3.0
702.0010.324	HSK-A100-HD32-120	100	32	120	63	61	91	M16	170	3.8

用途:用于DIN1835 A、B型和DIN6535 HA、HB型,其中DIN6535 HE型仅适用于带衬套的刀具。

设计:夹持精度为h6,粗糙度最小为Ra0.3,对于φ25和φ32尺寸只有A、HA型可用。

注意:

- 1.其他设计和尺寸也可根据要求提供。
- 2.工具架夹紧长度必须与尺寸L1-V相同,否则可能会出现夹紧力减少、工具从支架上脱落、工具无法拆卸或工具架损坏等问题。

Use: For shank tools according to DIN 1835 type A and B and DIN 6535 type HA and HB.

Shanks according to DIN 6535 type HE can only be used together with reduction bushes.

Design: Shank quality h6, Ra min. = 0.3. For φ 25 and φ 32 only type A or HA can be used.

Note:

1. Other designs and sizes are available on request.
2. Toolholder clamping length must be same to size L1-V. If not, problem may happen such as clamping force maybe reduced, tools fall off the holder, tool couldn't be dismantled or toolholder damage and so on.

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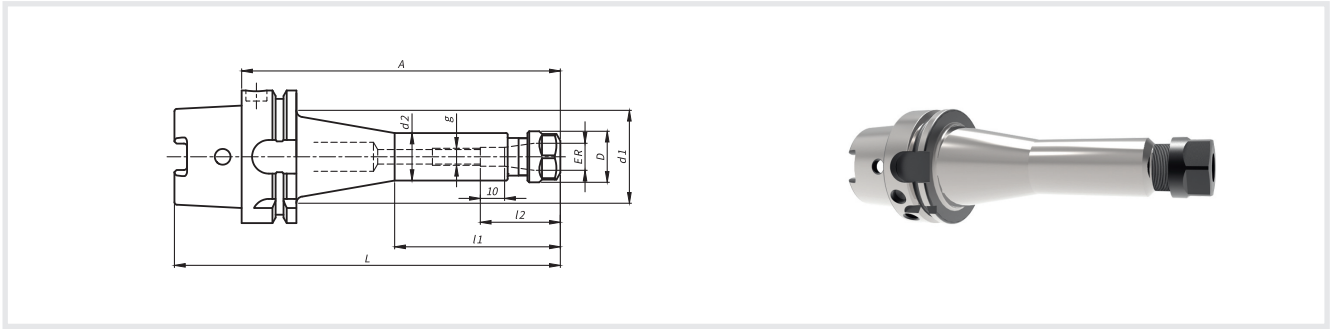
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ER/ESX ER-11/16弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 11/16 with internal thread



DIN 69882-6
Form A
☹️
↕=0,003
G6.3 15.000mirf
CAD

No.	Model	Size	ER	A	d1	d2	D	l1	l2	g	L	kg
698.0001.320	HSK-A40-ER16-80	40	ER16(0.5-10)	80	-	28	28	-	27	M10	100	0.4
698.0001.321	HSK-A50-ER16-100	50	ER16(0.5-10)	100	-	28	28	-	27	M10	125	0.7
698.0011.322	HSK-A63-ER16-75	63	ER16(0.5-10)	75	-	28	28	-	27	M10	107	0.8
698.0001.322	HSK-A63-ER16-100	63	ER16(0.5-10)	100	-	28	28	-	27	M10	132	1.0
698.0002.322	HSK-A63-ER16-160	63	ER16(0.5-10)	160	45	28	28	85	27	M10	192	1.2
698.0001.324	HSK-A100-ER16-100	100	ER16(0.5-10)	100	-	28	28	-	27	M12	150	2.3
698.0002.324	HSK-A100-ER16-160	100	ER16(0.5-10)	160	60	28	28	85	27	M12	210	2.5

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

出厂标准产品包括:夹紧螺母。

Standard Specification: Collet chuck including clamping nut.

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

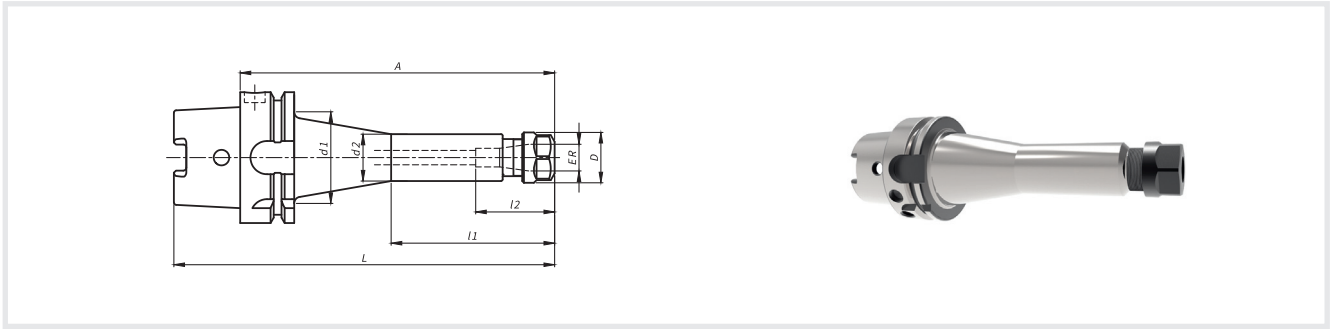
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ER/ESX ER-11/16弹簧夹头刀柄(不带调整螺钉孔)

Collet Chucks ER/ESX 11/16 without internal thread



No.	Model	Size	ER	A	d1	d2	D	l1	l2	L	kg
698.0211.320	HSK-A40-ER11-80	40	ER11(0.5-7)	80	-	18.5	19	-	42	99.9	0.3
698.0201.320	HSK-A40-ER16-80	40	ER16(0.5-10)	80	-	28	28	-	61	99.9	0.5
640.0175.040	HSK-A50-ER11-80	50	ER11(0.5-7)	80	-	18.5	19	-	42	104.9	0.5
698.0201.321	HSK-A50-ER16-100	50	ER16(0.5-10)	100	-	28	28	-	70	124.9	0.7
640.0176.040	HSK-A63-ER11-80	63	ER11(0.5-7)	80	-	18.5	19	-	42	111.9	0.8
698.0201.322	HSK-A63-ER16-100	63	ER16(0.5-10)	100	-	28	28	-	70	131.9	1.0
698.0202.322	HSK-A63-ER16-160	63	ER16(0.5-10)	160	46	28	28	85	70	191.9	1.3
698.0201.324	HSK-A100-ER16-100	100	ER16(0.5-10)	100	-	28	28	-	70	149.9	2.3
698.0202.324	HSK-A100-ER16-160	100	ER16(0.5-10)	160	45	28	28	85	70	209.9	2.6

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

出厂标准产品包括:夹紧螺母。

Standard Specification: Collet chuck including clamping nut.

注意:其他的设计和尺寸也可根据要求提供。

Note:Other designs and sizes are available on request.

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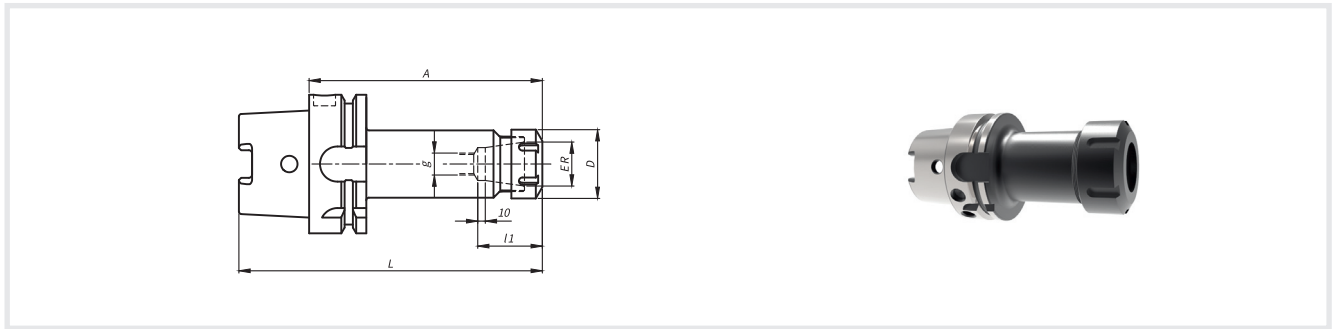
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ER/ESX 20/25/32/40弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 20/25/32/40 with internal thread



No.	Model	Size	ER	A	D	l1	g	L	kg
640.0115.041	HSK-A40-ER20-80	40	ER20(1-13)	80	34	36	M10	100	0.6
640.0116.041	HSK-A40-ER25-80	40	ER25(1-16)	80	42	43	M10	100	0.8
640.0117.041	HSK-A50-ER20-100	50	ER20(1-13)	100	34	36	M10	125	0.9
640.0118.041	HSK-A50-ER25-100	50	ER25(1-16)	100	42	43	M10	125	1.1
640.0119.041	HSK-A63-ER20-75	63	ER20(1-13)	75	34	36	M10	107	0.9
640.0120.041	HSK-A63-ER20-100	63	ER20(1-13)	100	34	36	M10	132	1.1
640.0121.041	HSK-A63-ER20-160	63	ER20(1-13)	160	34	36	M10	192	1.5
640.0122.041	HSK-A63-ER25-75	63	ER25(1-16)	75	42	43	M10	107	1.1
640.0123.041	HSK-A63-ER25-100	63	ER25(1-16)	100	42	43	M10	132	1.4
640.0124.041	HSK-A63-ER25-160	63	ER25(1-16)	160	42	43	M10	192	1.9
640.0125.041	HSK-A63-ER32-75	63	ER32(2-20)	75	50	47	-	107	1.3
640.0126.041	HSK-A63-ER32-100	63	ER32(2-20)	100	50	47	M16	132	1.7
640.0127.041	HSK-A63-ER32-160	63	ER32(2-20)	160	50	47	M16	192	2.5
640.0128.041	HSK-A63-ER40-90	63	ER40(3-26)	90	63	53	-	122	2.0
640.0129.041	HSK-A63-ER40-120	63	ER40(3-26)	120	63	53	M16	152	2.7
640.0130.041	HSK-A63-ER40-160	63	ER40(3-26)	160	63	53	M16	192	3.6
640.0131.041	HSK-A80-ER20-100	80	ER20(1-13)	100	34	36	M10	140	1.6
640.0132.041	HSK-A80-ER25-100	80	ER25(1-16)	100	42	43	M10	140	1.8
640.0133.041	HSK-A80-ER32-100	80	ER32(2-20)	100	50	47	M16	140	2.1
640.0134.041	HSK-A80-ER40-120	80	ER40(3-26)	120	63	53	M16	160	3.2
640.0135.041	HSK-A100-ER20-100	100	ER20(1-13)	100	34	36	M10	150	2.4
640.0136.041	HSK-A100-ER20-160	100	ER20(1-13)	160	34	36	M10	210	2.8
640.0137.041	HSK-A100-ER25-100	100	ER25(1-16)	100	42	43	M10	150	2.7
640.0138.041	HSK-A100-ER25-160	100	ER25(1-16)	160	42	43	M10	210	3.3
640.0139.041	HSK-A100-ER32-100	100	ER32(2-20)	100	50	47	M16	150	3.0
640.0140.041	HSK-A100-ER32-160	100	ER32(2-20)	160	50	47	M16	210	3.8
640.0141.041	HSK-A100-ER40-120	100	ER40(3-26)	120	63	53	M16	170	4.0
640.0142.041	HSK-A100-ER40-160	100	ER40(3-26)	160	63	53	M16	210	4.9

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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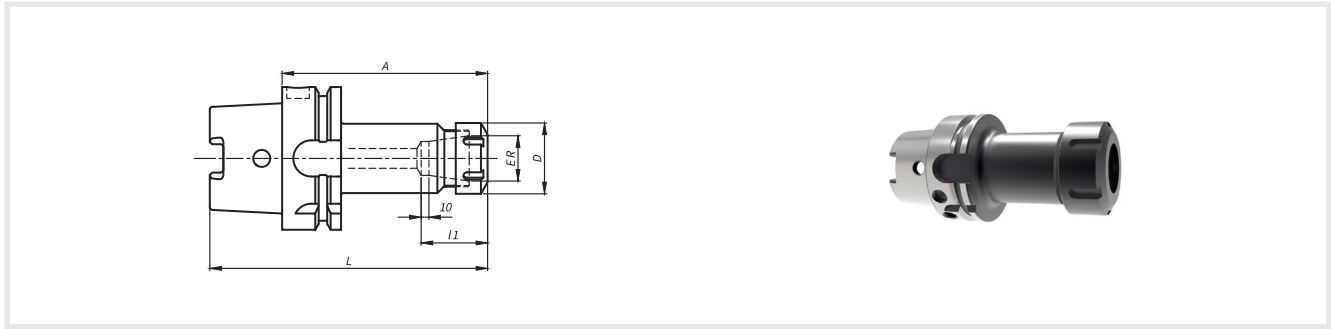
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ER/ESX 20/25/32/40弹簧夹头刀柄(不带调整螺钉孔)

Collet Chucks ER/ESX 20/25/32/40 without internal thread



DIN 69882-6
Form E

 $\sigma = 0,003$
G2.5
25.000mm²
~1gmm
CAD

No.	Model	Size	ER	A	D	l1	L	kg
640.0143.041	HSK-A40-ER20-80	40	ER20(1-13)	80	34	60	100	0.6
640.0144.041	HSK-A40-ER25-80	40	ER25(1-16)	80	42	60	100	0.8
640.0145.041	HSK-A50-ER20-100	50	ER20(1-13)	100	34	72	125	0.9
640.0146.041	HSK-A50-ER25-100	50	ER25(1-16)	100	42	72	125	1.1
640.0147.041	HSK-A50-ER32-100	50	ER32(2-20)	100	50	73	125	1.4
640.0148.041	HSK-A63-ER20-100	63	ER20(1-13)	100	34	69	132	1.1
640.0149.041	HSK-A63-ER20-160	63	ER20(1-13)	160	34	69	192	1.5
697.0204.322	HSK-A63-ER25-100	63	ER25(1-16)	100	42	69	132	1.4
697.0244.322	HSK-A63-ER25-160	63	ER25(1-16)	160	42	69	192	1.9
640.0152.041	HSK-A63-ER32-100	63	ER32(2-20)	100	50	73	132	1.7
640.0153.041	HSK-A63-ER32-160	63	ER32(2-20)	160	50	73	192	2.5
640.0154.041	HSK-A63-ER40-120	63	ER40(3-26)	120	63	87	152	2.7
640.0155.041	HSK-A63-ER40-160	63	ER40(3-26)	160	63	87	192	3.6
640.0156.041	HSK-A100-ER20-100	100	ER20(1-13)	100	34	69	150	2.4
640.0157.041	HSK-A100-ER20-160	100	ER20(1-13)	160	34	69	210	2.8
697.0204.324	HSK-A100-ER25-100	100	ER25(1-16)	100	42	69	150	2.7
697.0244.324	HSK-A100-ER25-160	100	ER25(1-16)	160	42	69	210	3.3
697.0201.324	HSK-A100-ER32-100	100	ER32(2-20)	100	50	70	150	3.0
697.0241.324	HSK-A100-ER32-160	100	ER32(2-20)	160	50	70	210	3.8
697.0202.324	HSK-A100-ER40-120	100	ER40(3-26)	120	63	87	170	4.0
697.0242.324	HSK-A100-ER40-160	100	ER40(3-26)	160	63	87	210	4.9

HSK 刀柄

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note:Other designs and sizes are available on request.

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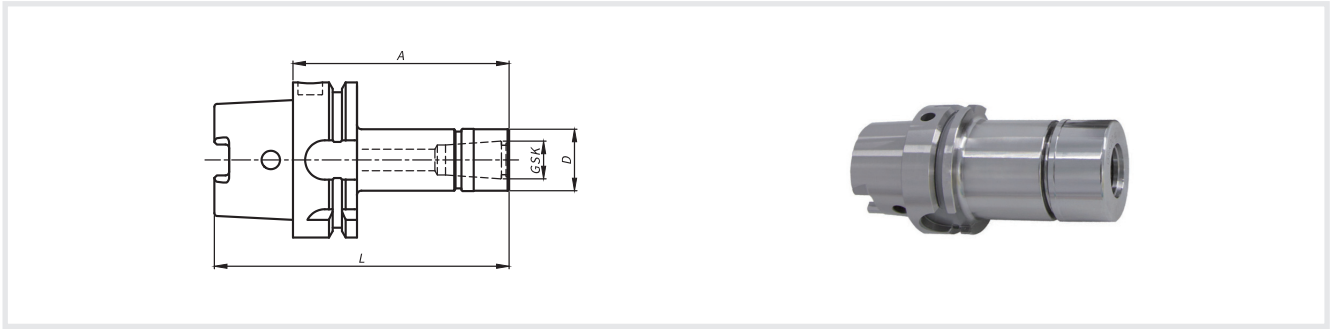
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GSK高精度弹簧夹头刀柄

Collet Chucks GSK6/10/16/20/25



No.	Model	Size	GSK	A	D	L	Kg
440.0050.042	HSK-A40-GSK6-80	40	GSK6 (3-6)	80	19.5	100	0.3
440.0051.042	HSK-A40-GSK10-80	40	GSK10 (2-10)	80	27.5	100	0.4
440.0188.042	HSK-A40-GSK13-80	40	GSK13 (3-13)	80	35	100	0.6
440.0052.042	HSK-A40-GSK16-80	40	GSK16 (3-16)	80	40	100	0.7
440.0053.042	HSK-A50-GSK10-100	50	GSK10 (2-10)	100	27.5	125	0.7
440.0189.042	HSK-A50-GSK13-100	50	GSK13 (3-13)	100	35	125	0.9
440.0054.042	HSK-A50-GSK16-100	50	GSK16 (3-16)	100	40	125	1.0
440.0055.042	HSK-A63-GSK10-100	63	GSK10 (2-10)	100	27.5	132	0.9
440.0056.042	HSK-A63-GSK10-160	63	GSK10 (2-10)	160	27.5	192	1.2
440.0190.042	HSK-A63-GSK13-100	63	GSK13 (3-13)	100	35	132	1.1
440.0191.042	HSK-A63-GSK13-160	63	GSK13 (3-13)	160	35	192	1.5
440.0057.042	HSK-A63-GSK16-80	63	GSK16 (3-16)	80	40	112	1.1
440.0058.042	HSK-A63-GSK16-100	63	GSK16 (3-16)	100	40	132	1.3
440.0059.042	HSK-A63-GSK16-160	63	GSK16 (3-16)	160	40	192	1.8
440.0060.042	HSK-A63-GSK20-80	63	GSK20 (4-20)	80	48	112	1.3
440.0061.042	HSK-A63-GSK20-100	63	GSK20 (4-20)	100	48	132	1.6
440.0062.042	HSK-A63-GSK20-160	63	GSK20 (4-20)	160	48	192	2.3
440.0063.042	HSK-A63-GSK25-90	63	GSK25 (3-25)	90	55	122	1.7
440.0064.042	HSK-A63-GSK25-120	63	GSK25 (3-25)	120	55	152	2.2
440.0065.042	HSK-A80-GSK16-100	80	GSK16 (3-16)	100	40	140	1.7
440.0066.042	HSK-A80-GSK20-100	80	GSK20 (4-20)	100	48	140	2.0
440.0067.042	HSK-A80-GSK25-100	80	GSK25 (3-25)	100	55	140	2.3
440.0068.042	HSK-A100-GSK10-100	100	GSK10 (2-10)	100	27.5	150	2.3
440.0069.042	HSK-A100-GSK10-160	100	GSK10 (2-10)	160	27.5	210	2.5
440.0192.042	HSK-A100-GSK13-100	100	GSK13 (3-13)	100	35	150	2.5
440.0193.042	HSK-A100-GSK13-160	100	GSK13 (3-13)	160	35	210	2.9
440.0070.042	HSK-A100-GSK16-100	100	GSK16 (3-16)	100	40	150	2.6
440.0071.042	HSK-A100-GSK16-160	100	GSK16 (3-16)	160	40	210	3.1

No.	Model	Size	GSK	A	D	L	Kg
440.0072.042	HSK-A100-GSK20-100	100	GSK20 (4-20)	100	48	150	2.9
440.0073.042	HSK-A100-GSK20-160	100	GSK20 (4-20)	160	48	210	3.6
440.0074.042	HSK-A100-GSK25-120	100	GSK25 (3-25)	120	55	170	3.5
440.0075.042	HSK-A100-GSK25-160	100	GSK25 (3-25)	160	55	210	4.2

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:括号中数字仅表示夹持刀具柄部尺寸范围,不体现在产品型号中。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, B and E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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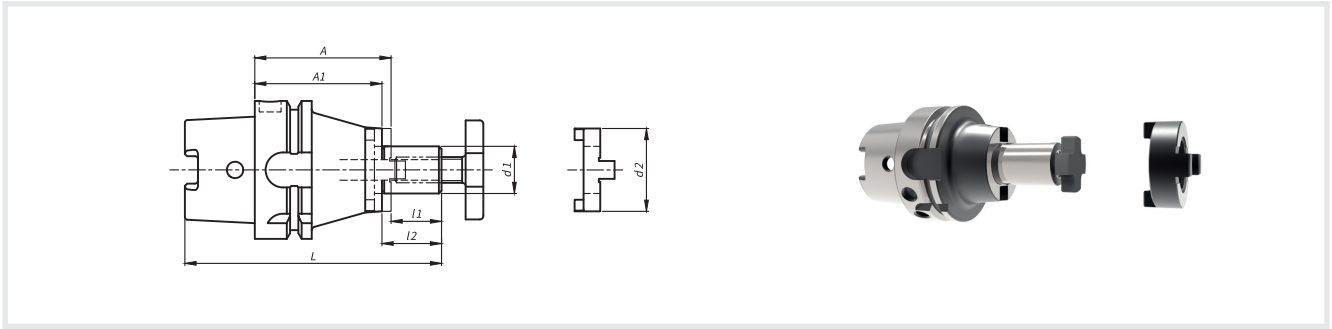
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套式铣刀柄(带平键和传动环)

Shell End Mill Arbors



No.	Model	Size	d1	A	A1	d2	l3	l4	L	kg
489.0001.320	HSK-A40-SEMC16-50	40	16	50	40	32	17	27	87	0.3
489.0002.320	HSK-A40-SEMC22-50	40	22	50	38	40	19	31	89	0.5
489.0003.320	HSK-A40-SEMC27-65	40	27	65	53	48	21	33	106	0.8
489.0001.321	HSK-A50-SEMC16-50	50	16	50	40	32	17	27	92	0.5
489.0002.321	HSK-A50-SEMC22-50	50	22	50	38	40	19	31	94	0.6
489.0003.321	HSK-A50-SEMC27-65	50	27	65	53	48	21	33	111	0.9
489.0004.321	HSK-A50-SEMC32-65	50	32	65	51	58	24	38	114	1.1
489.0001.322	HSK-A63-SEMC16-60	63	16	60	50	32	17	27	109	0.8
489.0031.322	HSK-A63-SEMC16-100	63	16	100	90	32	17	27	149	1.1
489.0041.322	HSK-A63-SEMC16-160	63	16	160	150	32	17	27	209	1.5
489.0002.322	HSK-A63-SEMC22-60	63	22	60	48	40	19	31	111	0.9
489.0032.322	HSK-A63-SEMC22-100	63	22	100	88	40	19	31	151	1.3
489.0042.322	HSK-A63-SEMC22-160	63	22	160	148	40	19	31	211	1.9
489.0003.322	HSK-A63-SEMC27-60	63	27	60	48	48	21	33	113	1.1
489.0033.322	HSK-A63-SEMC27-100	63	27	100	88	48	21	33	153	1.7
489.0043.322	HSK-A63-SEMC27-160	63	27	160	148	48	21	33	213	2.5
489.0004.322	HSK-A63-SEMC32-60	63	32	60	46	58	24	38	116	1.3
489.0034.322	HSK-A63-SEMC32-100	63	32	100	86	58	24	38	156	2.1
489.0044.322	HSK-A63-SEMC32-160	63	32	160	146	58	24	38	216	3.4
489.0005.322	HSK-A63-SEMC40-70	63	40	70	56	70	27	41	129	1.9
489.0035.322	HSK-A63-SEMC40-100	63	40	100	86	70	27	41	159	2.8
489.0045.322	HSK-A63-SEMC40-160	63	40	160	146	70	27	41	219	4.7
489.0001.323	HSK-A80-SEMC16-60	80	16	60	50	32	17	27	117	1.3
489.0002.323	HSK-A80-SEMC22-60	80	22	60	48	40	19	31	119	1.4
489.0003.323	HSK-A80-SEMC27-60	80	27	60	48	48	21	33	121	1.5
489.0004.323	HSK-A80-SEMC32-60	80	32	60	46	58	24	38	124	1.7
489.0005.323	HSK-A80-SEMC40-70	80	40	70	56	70	27	41	137	2.4
489.0006.323	HSK-A80-SEMC50-80	80	50	80	64	90	30	46	150	3.7

HSK 刀柄

No.	Model	Size	d1	A	A1	d2	l3	l4	L	kg
489.0001.324	HSK-A100-SEMC16-60	100	16	60	50	32	17	27	127	2.1
489.0031.324	HSK-A100-SEMC16-100	100	16	100	90	32	17	27	167	2.4
489.0041.324	HSK-A100-SEMC16-160	100	16	160	150	32	17	27	227	2.8
489.0002.324	HSK-A100-SEMC22-60	100	22	60	48	40	19	31	129	2.3
489.0032.324	HSK-A100-SEMC22-100	100	22	100	88	40	19	31	169	2.6
489.0042.324	HSK-A100-SEMC22-160	100	22	160	148	40	19	31	229	3.2
489.0003.324	HSK-A100-SEMC27-60	100	27	60	48	48	21	33	131	2.4
489.0033.324	HSK-A100-SEMC27-100	100	27	100	88	48	21	33	171	3.0
489.0043.324	HSK-A100-SEMC27-160	100	27	160	148	48	21	33	231	3.8
489.0004.324	HSK-A100-SEMC32-60	100	32	60	46	58	24	38	134	2.6
489.0034.324	HSK-A100-SEMC32-100	100	32	100	86	58	24	38	174	3.4
489.0044.324	HSK-A100-SEMC32-160	100	32	160	146	58	24	38	234	4.6
489.0005.324	HSK-A100-SEMC40-70	100	40	70	56	70	27	41	147	3.2
489.0035.324	HSK-A100-SEMC40-100	100	40	100	86	70	27	41	177	4.1
489.0045.324	HSK-A100-SEMC40-160	100	40	160	146	70	27	41	237	5.9
489.0006.324	HSK-A100-SEMC50-80	100	50	80	64	90	30	46	160	4.4

规格型号:用于夹持轴向平键或端面键驱动的面铣刀。

Use: For clamping shell end mills and milling cutters with longitudinal slot or tenon drive.

设计:带有中心冷却功能,传动环符合DIN 138。

Design: Central boring for coolant supply. Cutter drive according to DIN 138.

出厂标准产品:包括紧固螺钉、带有螺孔的平键和传动环等。

Standard Specification: Cutter retaining screw, feather key with withdrawal thread and drive ring included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES

配件

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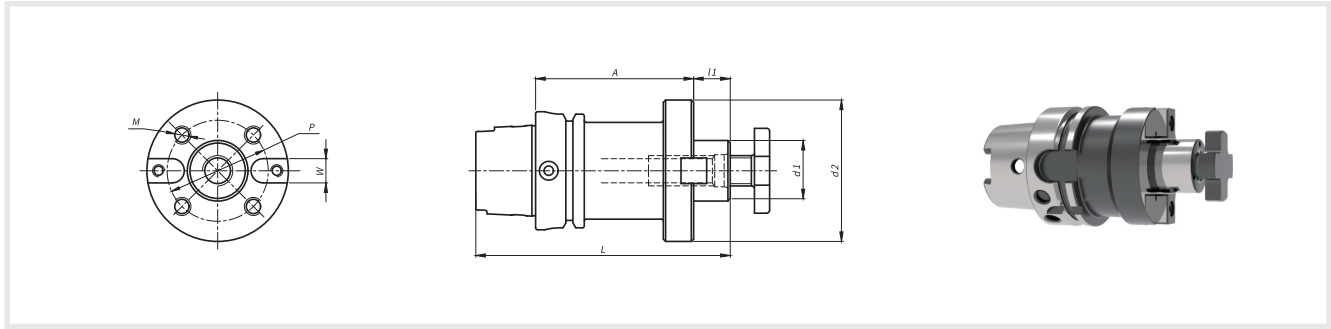
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端铣刀柄

Shell End Mill Arbors with enlarged contact diameter



No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
579.0009.321	HSK-A50-FMB16-50	50	16	50	40	17	92	-	8	M8(SW6)	—	0.6
579.0001.321	HSK-A50-FMB22-60	50	22	60	50	19	104	-	10	M10(SW8)	—	1.0
579.0002.321	HSK-A50-FMB27-60	50	27	60	60	21	106	-	12	M12(SW10)	R-D27	1.2
579.0009.322	HSK-A63-FMB16-50	63	16	50	40	17	99	-	8	M8(SW6)	—	0.9
579.0039.322	HSK-A63-FMB16-100	63	16	100	40	17	149	-	8	M8(SW6)	—	1.4
579.0049.322	HSK-A63-FMB16-160	63	16	160	40	17	209	-	8	M8(SW6)	—	2.0
579.0001.322	HSK-A63-FMB22-50	63	22	50	50	19	101	-	10	M10(SW8)	—	1.1
579.0031.322	HSK-A63-FMB22-100	63	22	100	50	19	151	-	10	M10(SW8)	—	1.8
579.0041.322	HSK-A63-FMB22-160	63	22	160	50	19	211	-	10	M10(SW8)	—	2.8
579.0002.322	HSK-A63-FMB27-60	63	27	60	60	21	113	-	12	M12(SW10)	R-D27	1.5
579.0032.322	HSK-A63-FMB27-100	63	27	100	60	21	153	-	12	M12(SW10)	R-D27	2.4
579.0042.322	HSK-A63-FMB27-160	63	27	160	60	21	213	-	12	M12(SW10)	R-D27	3.7
579.0003.322	HSK-A63-FMB32-60	63	32	60	78	24	116	-	14	M16(SW14)	R-D32	2.1
579.0033.322	HSK-A63-FMB32-100	63	32	100	78	24	156	-	14	M16(SW14)	R-D32	3.6
579.0043.322	HSK-A63-FMB32-160	63	32	160	78	24	216	-	14	M16(SW14)	R-D32	5.8
579.0004.322	HSK-A63-FMC40-60	63	40	60	89	27	119	M12	16	M20(SW17)	R-D40	2.6
579.0034.322	HSK-A63-FMC40-100	63	40	100	89	27	159	M12	16	M20(SW17)	R-D40	4.5
579.0001.323	HSK-A80-FMB22-50	80	22	50	50	19	109	-	10	M10(SW8)	—	1.5
579.0002.323	HSK-A80-FMB27-50	80	27	50	60	21	111	-	12	M12(SW10)	R-D27	1.7
579.0003.323	HSK-A80-FMB32-60	80	32	60	78	24	124	-	14	M16(SW14)	R-D32	2.5
579.0004.323	HSK-A80-FMC40-60	80	40	60	89	27	127	M12	16	M20(SW17)	R-D40	3.0
579.0009.324	HSK-A100-FMB16-50	100	16	50	40	17	117	-	8	M8(SW6)	—	2.2
579.0039.324	HSK-A100-FMB16-100	100	16	100	40	17	167	-	8	M8(SW6)	—	2.7
579.0049.324	HSK-A100-FMB16-160	100	16	160	40	17	227	-	8	M8(SW6)	—	3.3
579.0001.324	HSK-A100-FMB22-50	100	22	50	50	19	119	-	10	M10(SW8)	—	2.4
579.0031.324	HSK-A100-FMB22-100	100	22	100	50	19	169	-	10	M10(SW8)	—	3.1
579.0041.324	HSK-A100-FMB22-160	100	22	160	50	19	229	-	10	M10(SW8)	—	4.0

No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
579.0002.324	HSK-A100-FMB27-50	100	27	50	60	21	121	-	12	M12(SW10)	R-D27	2.5
579.0032.324	HSK-A100-FMB27-100	100	27	100	60	21	171	-	12	M12(SW10)	R-D27	3.6
579.0042.324	HSK-A100-FMB27-160	100	27	160	60	21	231	-	12	M12(SW10)	R-D27	5.0
579.0003.324	HSK-A100-FMB32-50	100	32	50	78	24	124	-	14	M16(SW14)	R-D32	2.9
579.0033.324	HSK-A100-FMB32-100	100	32	100	78	24	174	-	14	M16(SW14)	R-D32	4.8
579.0043.324	HSK-A100-FMB32-160	100	32	160	78	24	234	-	14	M16(SW14)	R-D32	7.0
579.0004.324	HSK-A100-FMC40-60	100	40	60	89	27	137	M12	16	M20(SW17)	R-D40	3.8
579.0034.324	HSK-A100-FMC40-100	100	40	100	89	27	177	M12	16	M20(SW17)	R-D40	5.7
579.0044.324	HSK-A100-FMC40-160	100	40	160	89	27	237	M12	16	M20(SW17)	R-D40	8.6
579.0005.324	HSK-A100-FMC50-70	100	50	70	120	30	150	M12	18	—	—	6.1
579.0035.324	HSK-A100-FMC50-100	100	50	100	120	30	180	M12	18	—	—	8.7
579.0045.324	HSK-A100-FMC50-160	100	50	160	120	30	240	M12	18	—	—	14.1
579.0006.324	HSK-A100-FMC60-70	100	60	70	140	40	160	M16	25.4	—	—	7.8
579.0036.324	HSK-A100-FMC60-100	100	60	100	140	40	190	M16	25.4	—	—	11.4

使用方向:用于夹持带有端面键槽的面铣刀。

Use For:clamping shell end mills and milling cutters with tenon drive.

设计:带有中心冷却功能, φ40和φ60规格需要4个或8个螺钉夹紧, 刀具和主轴的安装尺寸符合DIN 2079标准。

Design: Central boring for coolant supply.Clamping 40 and 60 with 4 threaded holes for holding cutters with tool holding according to DIN 2079.

出厂标准产品包括紧固螺钉和传动键。

Standard Specification: Cutter retaining screw and tightened drive keys included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES

配件

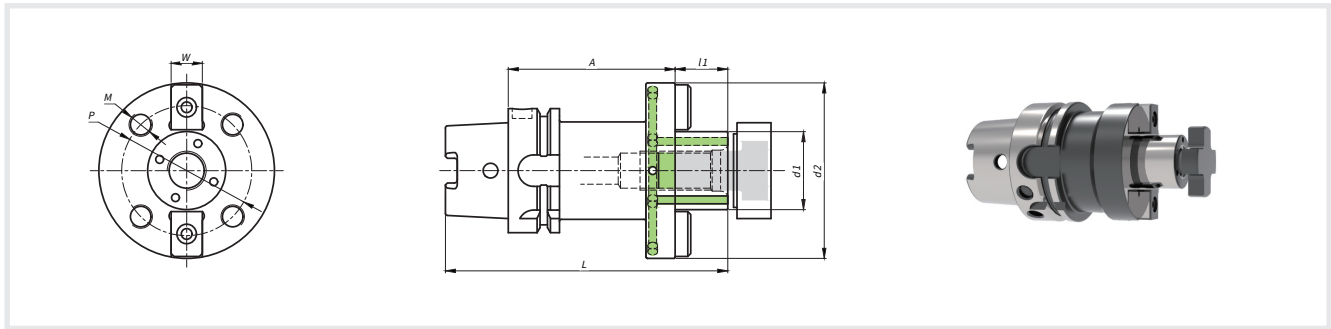


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端铣刀柄(带内冷)

Shell End Mill Arbors with enlarged contact diameter



No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
579.4009.322	HSK-A63-FMB16-50C	63	16	50	40	17	98.9	-	8	M8(SW6)	—	0.9
579.4039.322	HSK-A63-FMB16-100C	63	16	100	40	17	148.9	-	8	M8(SW6)	—	1.4
579.4049.322	HSK-A63-FMB16-160C	63	16	160	40	17	208.9	-	8	M8(SW6)	—	2.0
579.4001.322	HSK-A63-FMB22-50C	63	22	50	50	19	100.9	-	10	M10(SW8)	—	1.1
579.4031.322	HSK-A63-FMB22-100C	63	22	100	50	19	150.9	-	10	M10(SW8)	—	1.8
579.4041.322	HSK-A63-FMB22-160C	63	22	160	50	19	210.9	-	10	M10(SW8)	—	2.8
579.4002.322	HSK-A63-FMB27-60C	63	27	60	60	21	112.9	-	12	M12(SW10)	R-D27	1.5
579.4032.322	HSK-A63-FMB27-100C	63	27	100	60	21	152.9	-	12	M12(SW10)	R-D27	2.4
579.4042.322	HSK-A63-FMB27-160C	63	27	160	60	21	212.9	-	12	M12(SW10)	R-D27	3.7
579.4003.322	HSK-A63-FMB32-60C	63	32	60	78	24	115.9	-	14	M16(SW14)	R-D32	2.1
579.4033.322	HSK-A63-FMB32-100C	63	32	100	78	24	155.9	-	14	M16(SW14)	R-D32	3.6
579.4043.322	HSK-A63-FMB32-160C	63	32	160	78	24	215.9	-	14	M16(SW14)	R-D32	5.8
579.4004.322	HSK-A63-FMC40-60C	63	40	60	89	27	118.9	M12	16	M20(SW17)	R-D40	2.6
579.4034.322	HSK-A63-FMC40-100C	63	40	100	89	27	158.9	M12	16	M20(SW17)	R-D40	4.5
540.0202.004	HSK-A100-FMB16-50C	100	16	50	40	17	116.9	-	8	M8(SW6)		2.2
540.0203.004	HSK-A100-FMB16-100C	100	16	100	40	17	166.9	-	8	M8(SW6)		2.7
540.0204.004	HSK-A100-FMB16-160C	100	16	160	40	17	226.9	-	8	M8(SW6)		3.3
540.0205.004	HSK-A100-FMB22-50C	100	22	50	50	19	118.9	-	10	M10(SW8)		2.4
540.0206.004	HSK-A100-FMB22-100C	100	22	100	50	19	168.9	-	10	M10(SW8)		3.1
540.0207.004	HSK-A100-FMB22-160C	100	22	160	50	19	228.9	-	10	M10(SW8)		4.0
540.0208.004	HSK-A100-FMB27-50C	100	27	50	60	21	120.9	-	12	M12(SW10)	R-D27	2.5
540.0209.004	HSK-A100-FMB27-100C	100	27	100	60	21	170.9	-	12	M12(SW10)	R-D27	3.6
540.0210.004	HSK-A100-FMB27-160C	100	27	160	60	21	230.9	-	12	M12(SW10)	R-D27	5.0
540.0211.004	HSK-A100-FMB32-50C	100	32	50	78	24	123.9	-	14	M16(SW14)	R-D32	2.9
540.0212.004	HSK-A100-FMB32-100C	100	32	100	78	24	173.9	-	14	M16(SW14)	R-D32	4.8
540.0213.004	HSK-A100-FMB32-160C	100	32	160	78	24	233.9	-	14	M16(SW14)	R-D32	7.0
540.0214.004	HSK-A100-FMC40-60C	100	40	60	89	27	136.9	M12	16	M20(SW17)	R-D40	3.8
540.0215.004	HSK-A100-FMC40-100C	100	40	100	89	27	176.9	M12	16	M20(SW17)	R-D40	5.7
540.0216.004	HSK-A100-FMC40-160C	100	40	160	89	27	236.9	M12	16	M20(SW17)	R-D40	8.6

No.	Model	Size	d1	A	d2	l1	L	M	W	Screw	Plate	kg
540.0217.004	HSK-A100-FMC50-70C	100	50	70	120	30	149.9	M12	18	—	—	6.1
540.0218.004	HSK-A100-FMC50-100C	100	50	100	120	30	179.9	M12	18	—	—	8.7
540.0219.004	HSK-A100-FMC50-160C	100	50	160	120	30	239.9	M12	18	—	—	14.1
540.0220.004	HSK-A100-FMC60-70C	100	60	70	140	40	159.9	M16	25.4	—	—	7.8
540.0221.004	HSK-A100-FMC60-100C	100	60	100	140	40	189.9	M16	25.4	—	—	11.5

使用方向:用于夹持带有端面键槽的面铣刀。

Use For:clamping shell end mills and milling cutters with tenon drive.

设计:带有中心冷却功能, φ40和φ60规格需要4个或8个螺钉夹紧, 刀具和主轴的安装尺寸符合DIN 2079标准。

Design: Central boring for coolant supply.Clamping 40 and 60 with 4 threaded holes for holding cutters with tool holding according to DIN 2079.

出厂标准产品包括紧固螺钉和传动键。

Standard Specification: Cutter retaining screw and tightened drive keys included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES
配件

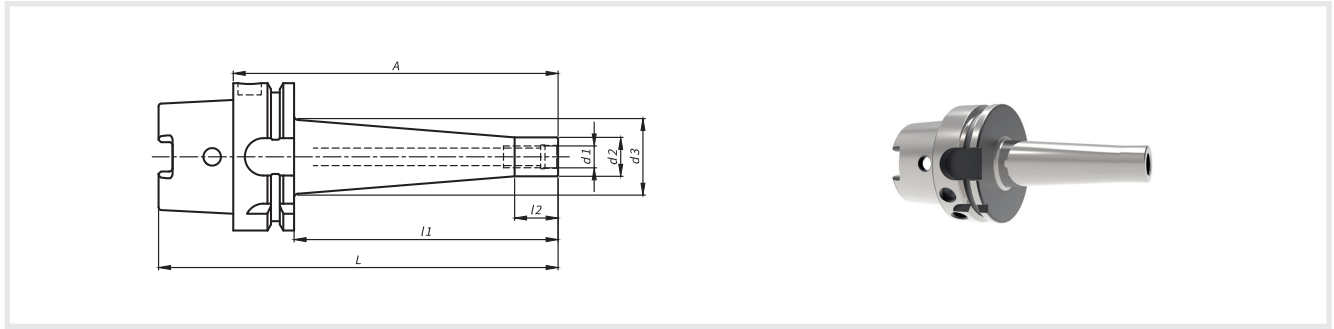


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KFS模块式铣刀柄

Holders for screw-in milling cutters



No.	Model	Size	d1	A	d2	d3	l1	l2	L	kg
571.0001.322	HSK-A63-KFS8-51	63	M8	51	12.8	15	25.0	12	83.0	0.7
571.0011.322	HSK-A63-KFS8-76	63	M8	76	12.8	23	50.0	12	108.0	0.7
571.0021.322	HSK-A63-KFS8-101	63	M8	101	12.8	23	75.0	12	133.0	0.7
571.0002.322	HSK-A63-KFS10-51	63	M10	51	17.8	20	25.0	12	83.0	0.7
571.0012.322	HSK-A63-KFS10-76	63	M10	76	17.8	25	50.0	12	108.0	0.7
571.0022.322	HSK-A63-KFS10-101	63	M10	101	17.8	25	75.0	12	133.0	0.8
571.0032.322	HSK-A63-KFS10-126	63	M10	126	17.8	32	100.0	12	158.0	0.8
571.0042.322	HSK-A63-KFS10-176	63	M10	176	17.8	35	150.0	12	208.0	0.9
571.0003.322	HSK-A63-KFS12-51	63	M12	51	20.8	24	25.0	12	83.0	0.7
571.0013.322	HSK-A63-KFS12-76	63	M12	76	20.8	28	50.0	12	108.0	0.8
571.0023.322	HSK-A63-KFS12-101	63	M12	101	20.8	31	75.0	12	133.0	0.8
571.0033.322	HSK-A63-KFS12-126	63	M12	126	20.8	33	100.0	12	158.0	0.9
571.0043.322	HSK-A63-KFS12-176	63	M12	176	20.8	40	150.0	12	208.0	1.0
571.0004.322	HSK-A63-KFS16-51	63	M16	51	28.8	-	25.0	-	83.0	0.8
571.0014.322	HSK-A63-KFS16-76	63	M16	76	28.8	34	50.0	12	108.0	0.9
571.0024.322	HSK-A63-KFS16-101	63	M16	101	28.8	34	75.0	12	133.0	1.0
571.0034.322	HSK-A63-KFS16-126	63	M16	126	28.8	36	100.0	12	158.0	1.1
571.0044.322	HSK-A63-KFS16-176	63	M16	176	28.8	42	150.0	12	208.0	1.4
571.0011.324	HSK-A100-KFS8-79	100	M8	79	12.8	23	50.0	12	129.0	2.0
571.0012.324	HSK-A100-KFS10-79	100	M10	79	17.8	25	50.0	12	129.0	2.1
571.0022.324	HSK-A100-KFS10-104	100	M10	104	17.8	25	75.0	12	154.0	2.1
571.0032.324	HSK-A100-KFS10-129	100	M10	129	17.8	32	100.0	12	179.0	2.2
571.0042.324	HSK-A100-KFS10-179	100	M10	179	17.8	35	150.0	12	229.0	2.3
571.0013.324	HSK-A100-KFS12-79	100	M12	79	20.8	28	50.0	12	129.0	2.1
571.0023.324	HSK-A100-KFS12-104	100	M12	104	20.8	31	75.0	12	154.0	2.2
571.0033.324	HSK-A100-KFS12-129	100	M12	129	20.8	33	100.0	12	179.0	2.2
571.0043.324	HSK-A100-KFS12-179	100	M12	179	20.8	40	150.0	12	229.0	2.4
571.0014.324	HSK-A100-KFS16-79	100	M16	79	28.8	34	50.0	12	129.0	2.2
571.0024.324	HSK-A100-KFS16-104	100	M16	104	28.8	34	75.0	12	154.0	2.4
571.0034.324	HSK-A100-KFS16-129	100	M16	129	28.8	36	100.0	12	179.0	2.5
571.0044.324	HSK-A100-KFS16-179	100	M16	179	28.8	42	150.0	12	229.0	2.7

使用方向:用于夹紧以螺纹连接的铣刀。

Use: For holding the milling tools with thread.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES
配件

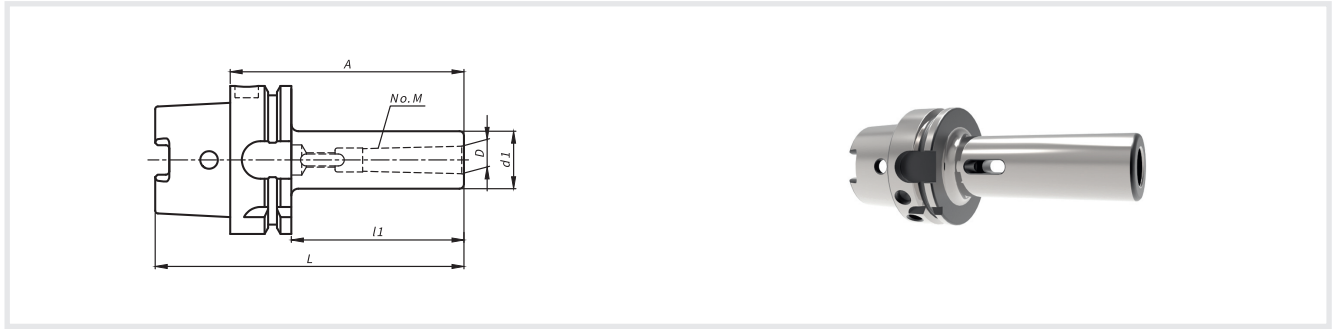


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带扁尾莫氏圆锥孔刀柄

Reduction Sleeves for morse taper with tang



No.	Model	Size	M	D	A	d1	l1	L	kg
454.0001.321	HSK-A50-M1-100	50	1	12.065	100	25	74.0	125	0.6
454.0002.321	HSK-A50-M2-120	50	2	17.78	120	32	94.0	145	0.9
454.0003.321	HSK-A50-M3-140	50	3	23.825	140	40	114.0	165	1.4
454.0001.322	HSK-A63-M1-100	63	1	12.065	100	25	74.0	132	0.9
454.0002.322	HSK-A63-M2-120	63	2	17.78	120	32	94.0	152	1.2
454.0003.322	HSK-A63-M3-140	63	3	23.825	140	40	114.0	172	1.6
454.0004.322	HSK-A63-M4-160	63	4	31.267	160	48	134.0	192	2.3
454.0001.323	HSK-A80-M1-110	80	1	12.065	110	25	84.0	150	1.4
454.0002.323	HSK-A80-M2-120	80	2	17.78	120	32	94.0	160	1.6
454.0003.323	HSK-A80-M3-150	80	3	23.825	150	40	114.0	190	2.2
454.0004.323	HSK-A80-M4-170	80	4	31.267	170	48	144.0	210	2.9
454.0005.323	HSK-A80-M5-200	80	5	44.399	200	63	174.0	240	4.9
454.0001.324	HSK-A100-M1-110	100	1	12.065	110	25	81.0	160	2.3
454.0002.324	HSK-A100-M2-120	100	2	17.78	120	32	91.0	170	2.5
454.0003.324	HSK-A100-M3-150	100	3	23.825	150	40	121.0	200	3.0
454.0004.324	HSK-A100-M4-170	100	4	31.267	170	48	141.0	220	3.8
454.0005.324	HSK-A100-M5-200	100	5	44.399	200	63	171.0	250	5.7

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

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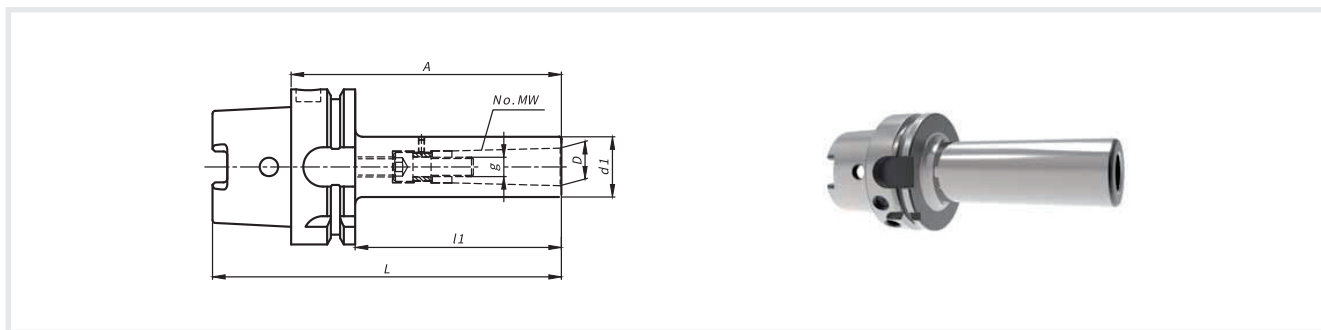
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无扁尾莫氏圆锥孔刀柄

Reduction Sleeves for morse taper without thread



No.	Model	Size	MW	D	A	d1	l1	g	L	kg
458.0001.321	HSK-A50-MW1-100	50	1	12.065	100	25	74.0	M6	125.0	0.6
458.0002.321	HSK-A50-MW2-120	50	2	17.78	120	32	94.0	M10	145.0	0.9
458.0003.321	HSK-A50-MW3-130	50	3	23.825	130	40	104.0	M12	155.0	1.3
458.0001.322	HSK-A63-MW1-100	63	1	12.065	100	25	74.0	M6	132.0	0.9
458.0002.322	HSK-A63-MW2-120	63	2	17.78	120	32	94.0	M10	152.0	1.2
458.0003.322	HSK-A63-MW3-130	63	3	23.825	130	40	104.0	M12	162.0	1.6
458.0004.322	HSK-A63-MW4-160	63	4	31.267	160	63	134.0	M16	192.0	3.6
458.0001.323	HSK-A80-MW1-120	80	1	12.065	120	25	94.0	M6	160.0	1.4
458.0002.323	HSK-A80-MW2-120	80	2	17.78	120	32	94.0	M10	160.0	1.6
458.0003.323	HSK-A80-MW3-140	80	3	23.825	140	40	114.0	M12	180.0	2.1
458.0004.323	HSK-A80-MW4-170	80	4	31.267	170	63	144.0	M16	210.0	4.3
458.0005.323	HSK-A80-MW5-200	80	5	44.399	200	78	174.0	M20	240.0	7.0
458.0001.324	HSK-A100-MW1-120	100	1	12.065	120	25	91.0	M6	170.0	2.3
458.0002.324	HSK-A100-MW2-120	100	2	17.78	120	32	91.0	M10	170.0	2.5
458.0003.324	HSK-A100-MW3-140	100	3	23.825	140	40	111.0	M12	190.0	3.0
458.0004.324	HSK-A100-MW4-170	100	4	31.267	170	63	141.0	M16	220.0	5.1
458.0005.324	HSK-A100-MW5-200	100	5	44.399	200	78	171.0	M20	250.0	7.7

说明:包括紧固螺钉和螺纹挡环。

Standard Specification:Retaining screws and threaded rings are included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES

配件

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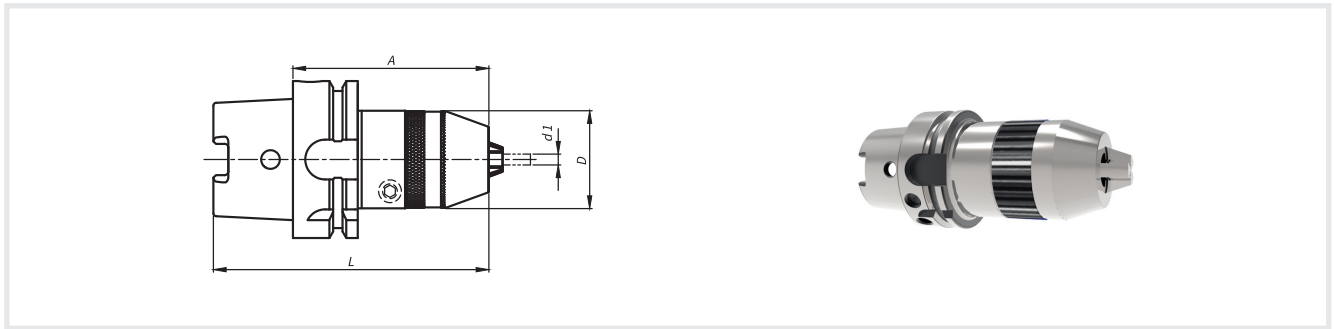
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整体式钻夹头刀柄

Integrated Drill Chuck Arbors whole



ISO
12164-1

Form
A

No.	Model	Size	d1	A	D	L	kg
490.0010.321	HSK-A50-KPU(1-16)-107	50	1-16	107	50	132	1.3
490.0010.322	HSK-A63-KPU(1-16)-98	63	1-16	98	50	130	2.0
490.0010.323	HSK-A80-KPU(1-16)-101	80	1-16	101	50	141	2.7
490.0010.324	HSK-A100-KPU(1-16)-104	100	1-16	104	50	154	3.0

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

HSK 刀柄

ACCESSORIES

配件

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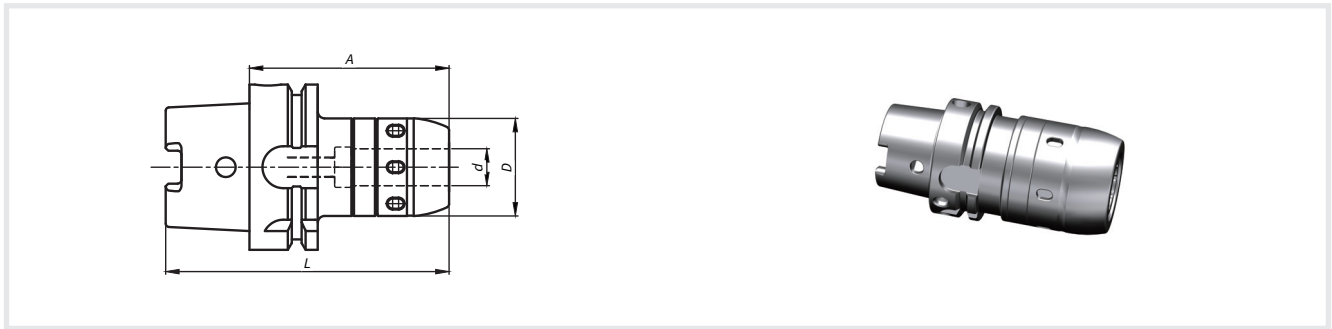
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强力铣夹头刀柄

Strong Chuck Holder For Boring and Milling



No.	Model	Size	d	A	L	D	Bans	kg
740.0140.111	HSK-A63-SC20-105	63	20	105	137.0	58	55-62	1.7
740.0148.111	HSK-A63-SC20-120	63	20	120	152.0	58	55-62	2.1
740.0141.111	HSK-A63-SC20-140	63	20	140	172.0	58	55-62	2.6
740.0149.111	HSK-A63-SC20-160	63	20	160	192.0	58	55-62	3.1
740.0142.111	HSK-A63-SC25-115	63	25	115	147.0	65	68-72	2.1
740.0151.111	HSK-A63-SC25-130	63	25	130	162.0	65	68-72	2.4
740.0152.111	HSK-A63-SC25-160	63	25	160	192	65	68-72	3.2
740.0143.111	HSK-A63-SC32-120	63	25	120	152.0	73	68-72	2.9
740.0154.111	HSK-A63-SC32-130	63	32	130	162.0	73	68-72	3.1
740.0155.111	HSK-A63-SC32-160	63	32	160	192.0	73	68-72	3.8
740.0144.111	HSK-A100-SC20-110	100	20	110	160.0	58	55-62	4.9
740.0157.111	HSK-A100-SC20-130	100	20	130	180.0	58	55-62	5.4
740.0158.111	HSK-A100-SC20-160	100	20	160	210.0	58	55-62	6.2
740.0145.111	HSK-A100-SC25-120	100	25	120	170.0	65	68-72	5.4
740.0160.111	HSK-A100-SC25-140	100	25	140	190.0	65	68-72	5.9
740.0161.111	HSK-A100-SC25-160	100	25	160	210.0	65	68-72	6.4
740.0146.111	HSK-A100-SC32-125	100	32	125	175.0	73	68-72	5.6
740.0163.111	HSK-A100-SC32-140	100	32	140	190.0	73	68-72	6.0
740.0164.111	HSK-A100-SC32-160	100	32	160	210.0	73	68-72	6.4
740.0166.111	HSK-A100-SC40-140	100	40	140	190.0	88	78-85	6.2
740.0167.111	HSK-A100-SC40-160	100	40	160	210.0	88	78-85	6.7

注意:被夹持直柄刀具的柄部公差为H6,使用方向配用扳手加紧直柄刀具时,不允许使用方向其他额外工具。如果你需要扳手,请联系销售人员额外订购

Note:The clamping diameter is designed for a cemented carbide shank tolerance of h6.You not be allowed to use other auxiliary device when you use the clamping stright tools.If you need the clamping keys,you need order it additionally.

注意:其他型号和尺寸可按订货要求制作。

Other designsand sizes are available on request.

ACCESSORIES

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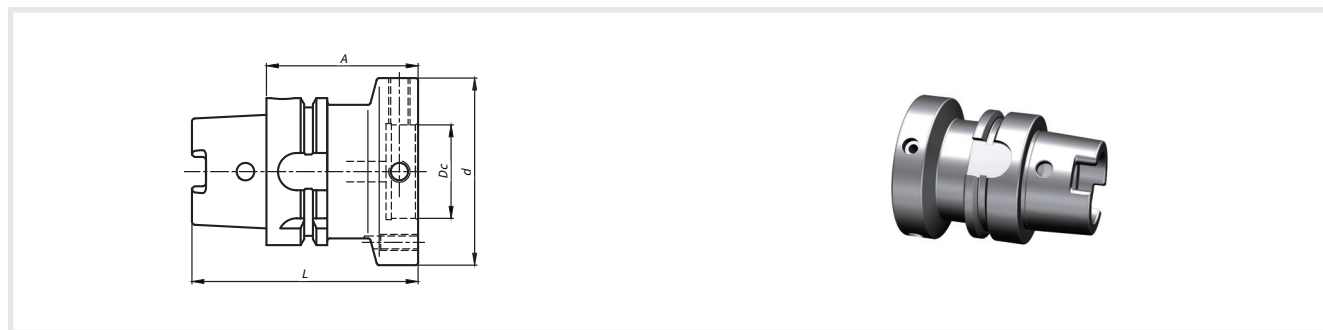
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可调式刀柄

Adjusting Clamping Tools



ISO
12164-1

Form
A

No.	Model	Size	Dc	d	A	L	kg
440.0013.005	HSK-A40-MOD60-60	40	30	60	60	79.9	1.1
440.0014.005	HSK-A50-MOD60-60	50	30	60	60	84.9	1.1
440.0015.005	HSK-A50-MOD70-60	50	35	70	60	84.9	1.4
440.0016.005	HSK-A50-MOD80-60	50	40	80	60	84.9	1.7
440.0017.005	HSK-A63-MOD60-60	63	30	60	60	91.9	1.4
440.0018.005	HSK-A63-MOD70-60	63	35	70	60	91.9	1.7
440.0019.005	HSK-A63-MOD80-60	63	40	80	60	91.9	2.0
440.0020.005	HSK-A63-MOD100-65	63	50	100	65	96.9	3.0
440.0021.005	HSK-A63-MOD117-65	63	60	117	65	96.9	3.9
440.0022.005	HSK-A100-MOD60-55	100	30	60	55	104.9	2.5
440.0023.005	HSK-A100-MOD70-55	100	35	70	55	104.9	2.8
440.0024.005	HSK-A100-MOD80-55	100	40	80	55	104.9	3.0
440.0025.005	HSK-A100-MOD100-65	100	50	100	65	114.9	4.2
440.0026.005	HSK-A100-MOD117-65	100	60	117	65	114.9	5.0
440.0027.005	HSK-A100-MOD140-75	100	80	140	75	124.9	7.5

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES

配件

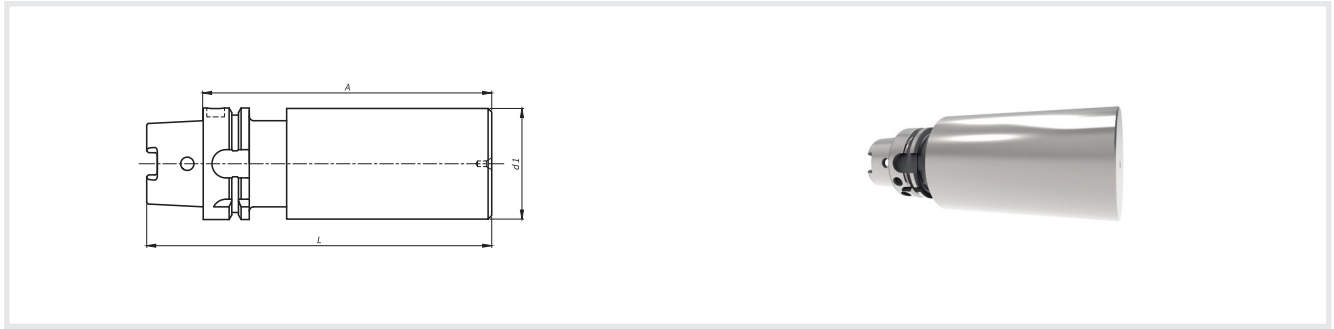


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毛坯刀柄(合金钢)

Tool Blanks with Alloy Steel



ISO
12164-1

Form
A

No.	Model	Size	d1	A	L	kg
517.6001.320	HSK-A40-BL40-200	40	40	200	220	2.0
517.5001.321	HSK-A50-BL50-150	50	50	150	175	2.3
517.5002.321	HSK-A50-BL50-200	50	50	200	225	3.1
517.5003.321	HSK-A50-BL63-150	50	63	150	175	3.4
517.6001.321	HSK-A50-BL63-200	50	63	200	225	4.6
517.5001.322	HSK-A63-BL63-150	63	63	150	182	3.7
517.5002.322	HSK-A63-BL63-200	63	63	200	232	4.9
517.5003.322	HSK-A63-BL63-250	63	63	250	282	6.1
517.5004.322	HSK-A63-BL80-150	63	80	150	182	5.5
517.5005.322	HSK-A63-BL80-200	63	80	200	232	7.5
517.6001.322	HSK-A63-BL80-250	63	80	250	282	9.5
517.5001.323	HSK-A80-BL80-150	80	80	150	190	6.0
517.5002.323	HSK-A80-BL80-200	80	80	200	240	8.0
517.6001.323	HSK-A80-BL80-250	80	80	250	290	9.9
517.5001.324	HSK-A100-BL95-150	100	95	150	200	8.7
517.5002.324	HSK-A100-BL95-200	100	95	200	250	11.5
517.6001.324	HSK-A100-BL95-250	100	95	250	300	14.3

使用方向:用于制造特殊刀具刀体及工具系统产品。

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2),淬硬层在0.5mm以上;刀具端硬度HRC38-43。

材料:合金钢

注意:其他型号和尺寸可按订货要求制作

Use: For own manufacture of special tools.

Design:The taper ls finished with grinding,the dimensions are in accordance with the standard of the handle,HV670±40 (approximately HRC58±2),the hardened layer is above 0.5mm. Tool part is HRC36-44.

Material:Aolly steel.

Note:Other designs and sizes are available on request.

ACCESSORIES
配件

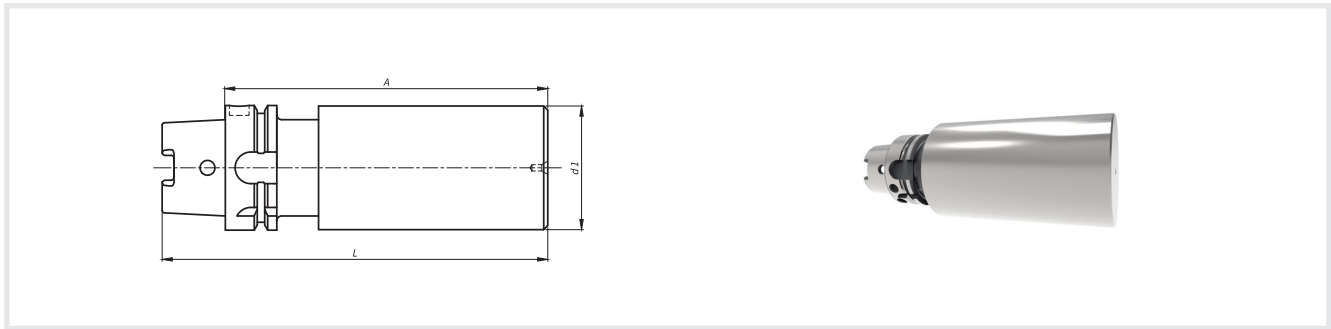
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毛坯刀柄(渗碳钢)

Tool Blanks with Alloy Case-hardened Steel



No.	Model	Size	d1	A	L	kg
517.0001.320	HSK-A40-BLH40-200	40	40	200	220	2.0
517.0001.321	HSK-A50-BLH63-200	50	63	200	225	4.6
517.0001.322	HSK-A63-BLH80-250	63	80	250	282	9.5
517.0001.323	HSK-A80-BLH80-250	80	80	250	290	9.9
517.0001.324	HSK-A100-BLH95-250	100	95	250	300	14.3

使用方向:用于制造工具系统产品。

Use: For own manufacture of special tools.

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2)。刀具端面抛光,未做淬硬处理,为原材料本身硬度。

Design: Taper including flange hardened.Vickers hardness min HV670kp/mm2 (min.HRC 58).Taper ground, shank not ground prepared to be finished,unhardened.

材料:渗碳钢

Material: Alloy case-hardened steel.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

ACCESSORIES

配件

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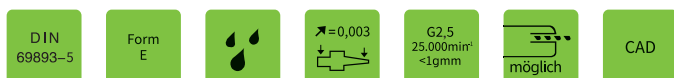
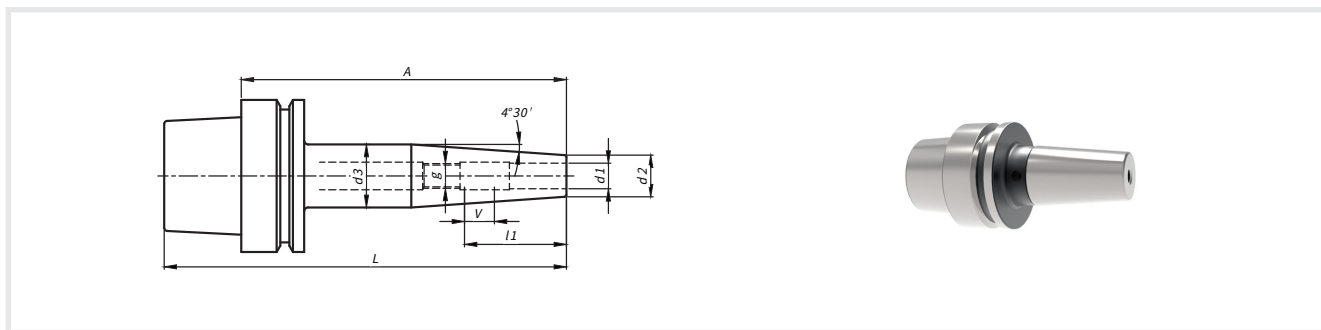
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热装夹头刀柄 (标准型)

i-tec® Shrink-fit Chucks



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0011.362	HSK-E40-SRK3-65	40	3	65	12	17	-	-	84.9	-	0.3
311.0012.362	HSK-E40-SRK4-65	40	4	65	12	17	-	-	84.9	-	0.3
311.0013.362	HSK-E40-SRK5-65	40	5	65	12	17	-	-	84.9	-	0.3
311.0001.362	HSK-E40-SRK6-80	40	6	80	21	30	36	M5	99.9	10	0.5
311.0002.362	HSK-E40-SRK8-80	40	8	80	21	30	36	M6	99.9	10	0.5
311.0003.362	HSK-E40-SRK10-80	40	10	80	24	33	41	M8×1	99.9	10	0.6
311.0004.362	HSK-E40-SRK12-90	40	12	90	24	35	47	M10×1	109.9	10	0.7
311.0005.362	HSK-E40-SRK14-90	40	14	90	27	34	47	M10×1	109.9	10	0.7
311.0006.362	HSK-E40-SRK16-90	40	16	90	27	34	50	M12×1	109.9	10	0.7
311.0011.363	HSK-E50-SRK3-65	50	3	65	12	17	-	-	89.9	-	0.4
311.0012.363	HSK-E50-SRK4-65	50	4	65	12	17	-	-	89.9	-	0.4
311.0013.363	HSK-E50-SRK5-65	50	5	65	12	17	-	-	89.9	-	0.4
311.0001.363	HSK-E50-SRK6-80	50	6	80	21	30	36	M5	104.9	10	0.7
311.0002.363	HSK-E50-SRK8-80	50	8	80	21	30	36	M6	104.9	10	0.7
311.0003.363	HSK-E50-SRK10-85	50	10	85	24	33	41	M8×1	109.9	10	0.8
311.0004.363	HSK-E50-SRK12-90	50	12	90	24	34	47	M10×1	114.9	10	0.8
311.0005.363	HSK-E50-SRK14-90	50	14	90	27	37	47	M10×1	114.9	10	0.9
311.0006.363	HSK-E50-SRK16-95	50	16	95	27	38	50	M12×1	119.9	10	1.0
311.0007.363	HSK-E50-SRK18-95	50	18	95	33	42	50	M12×1	119.9	10	1.1
311.0008.363	HSK-E50-SRK20-100	50	20	100	33	42	52	M16×1	124.9	10	1.2

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

Design:
The clamping diameter is designed for a cemented carbide shank tolerance of h6.

出厂标准产品不包括调整长度的调整螺钉。

Standard Specification is not included the Adjusting screw for length adjustment.

注意:

Note:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-v尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

ACCESSORIES

配件



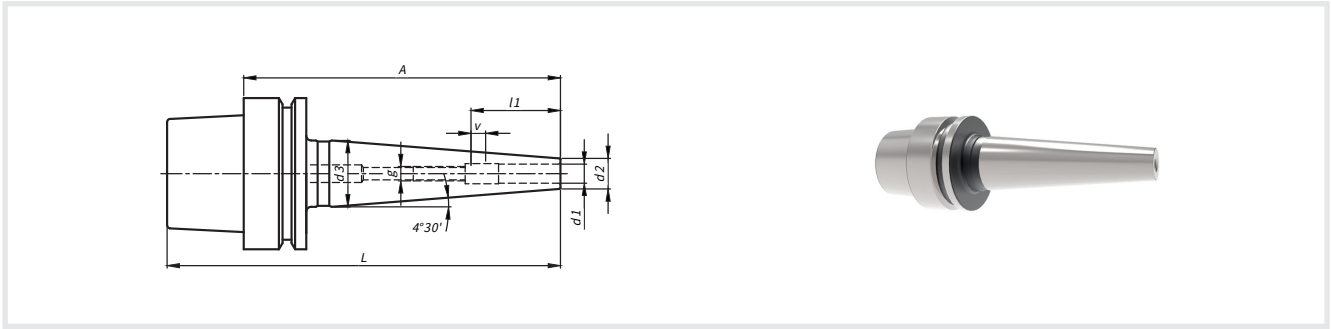
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热装夹头刀柄 (细长型)

i-tec® Shrink-fit Chuncks silm version



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	Kg
311.0703.362	HSK-E40-SRK6-120SL	40	6	120	15	30	36	M5	140	10	0.7
311.0704.362	HSK-E40-SRK8-120SL	40	8	120	15	30	36	M6	140	10	0.7
311.0705.362	HSK-E40-SRK10-120SL	40	10	120	18	33	41	M8×1	140	10	0.9
311.0706.362	HSK-E40-SRK12-120SL	40	12	120	18	33	47	M10×1	140	10	0.9
311.0703.363	HSK-E50-SRK6-120SL	50	6	120	15	30	36	M5	145	10	0.9
311.0704.363	HSK-E50-SRK8-120SL	50	8	120	15	30	36	M6	145	10	0.9
311.0705.363	HSK-E50-SRK10-120SL	50	10	120	18	33	41	M8×1	145	10	1.0
311.0706.363	HSK-E50-SRK12-120SL	50	12	120	18	33	47	M10×1	145	10	1.0
311.0703.364	HSK-E63-SRK6-120SL	63	6	120	15	30	36	M5	152	10	1.2
311.0704.364	HSK-E63-SRK8-120SL	63	8	120	15	30	36	M6	152	10	1.2
311.0705.364	HSK-E63-SRK10-120SL	63	10	120	18	33	41	M8×1	152	10	1.3
311.0706.364	HSK-E63-SRK12-120SL	63	12	120	18	33	47	M10×1	152	10	1.3

设计:请使用柄部直径公差h6级的硬质合金刀具。

带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-v尺寸, 否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:

The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

1. Other designs and sizes are available on request.
2. Toolholder clamping length must be same to size L1-v. If not, problem may happen such as clamping force maybe reduced, tools fall off the holder, tool couldn't be dismantled or toolholder damage and so on.
3. Special shrinking devices are recommended for tool mounting and dismantling.

ACCESSORIES

配件

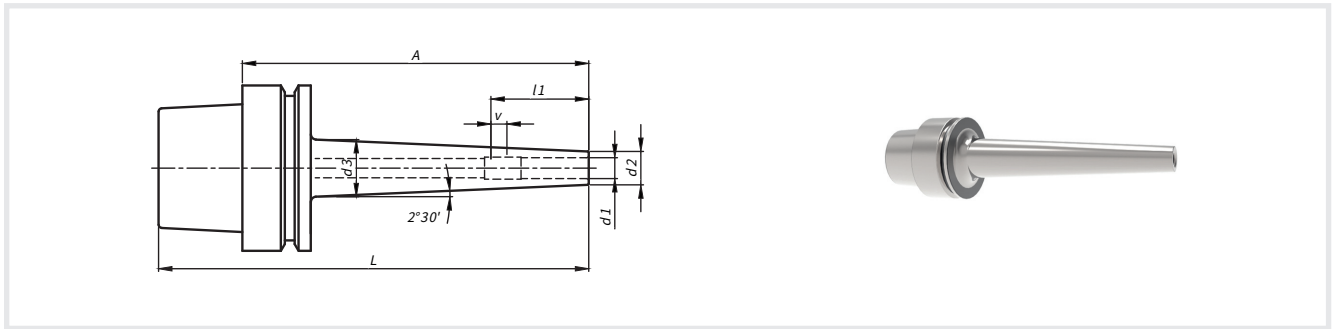


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热装夹头刀柄 (超细型)

i-tec® Shrink-fit Chuncks extremely silm version



No.	Model	Size	d1	A	d2	d3	L	Kg
311.0411.362	HSK-E40-SRK3-70SL	40	3	70	8	12.4	90	0.3
311.0412.362	HSK-E40-SRK3-120SL	40	3	120	8	16.8	140	0.3
311.0414.362	HSK-E40-SRK4-70SL	40	4	70	9	13.4	90	0.3
311.0415.362	HSK-E40-SRK4-120SL	40	4	120	9	17.8	140	0.3
311.0417.362	HSK-E40-SRK5-70SL	40	5	70	10	14.4	90	0.3
311.0418.362	HSK-E40-SRK5-120SL	40	5	120	10	18.4	140	0.3
311.0401.362	HSK-E40-SRK6-70SL	40	6	70	11	15.4	90	0.3
311.0431.362	HSK-E40-SRK6-120SL	40	6	120	11	19.4	140	0.4
311.0402.362	HSK-E40-SRK8-70SL	40	8	70	13	17.4	90	0.3
311.0432.362	HSK-E40-SRK8-120SL	40	8	120	13	21.4	140	0.4
311.0403.362	HSK-E40-SRK10-70SL	40	10	70	15	19.4	90	0.3
311.0433.362	HSK-E40-SRK10-120SL	40	10	120	15	23.4	140	0.4
311.0404.362	HSK-E40-SRK12-70SL	40	12	70	17	21.4	90	0.3
311.0434.362	HSK-E40-SRK12-120SL	40	12	120	17	25.4	140	0.5

设计:请使用柄部直径公差h6级的硬质合金刀具。

带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1.其他型号和尺寸可按订货要求制作。
- 2.装夹刀具的刀柄夹紧长度必须保证L1-v尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3.建议使用专用热装机装卸刀具。

Design:

The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

ACCESSORIES

配件

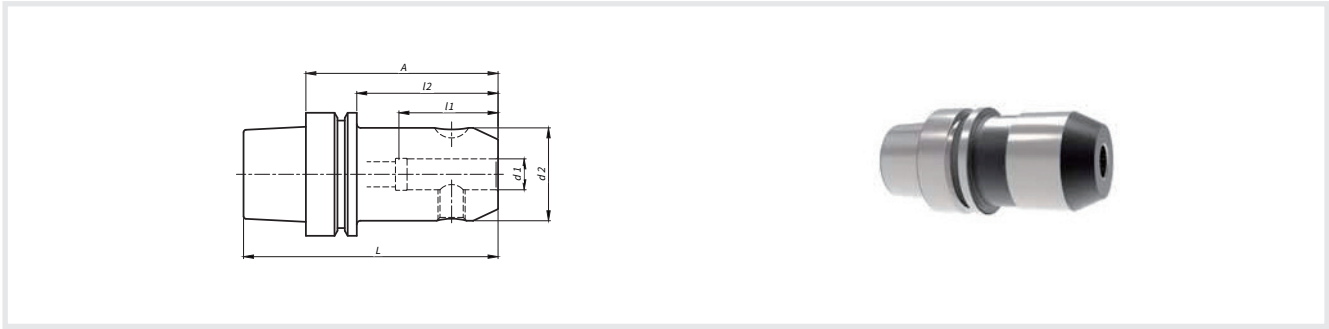


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削平型直柄立铣刀柄(威尔顿型)

Reduction Sleeves for Straight Shanks with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	l2	L	Tol./d1	kg
420.0001.363	HSK-E50-EM6-65	50	6	65	25	35	40	90	+0.005	0.5
420.0002.363	HSK-E50-EM8-65	50	8	65	28	35	40	90	+0.005	0.6
420.0003.363	HSK-E50-EM10-65	50	10	65	35	39	40	90	+0.005	0.7
420.0004.363	HSK-E50-EM12-80	50	12	80	42	44	55	105	+0.005	1.0
420.0006.363	HSK-E50-EM16-80	50	16	80	48	47	55	105	+0.005	1.1
420.0007.363	HSK-E50-EM18-80	50	18	80	50	47	55	105	+0.005	1.2
420.0008.363	HSK-E50-EM20-80	50	20	80	52	49	55	105	+0.007	1.3
420.0001.364	HSK-E63-EM6-65	63	6	65	25	35	33	97	+0.005	0.8
420.0002.364	HSK-E63-EM8-65	63	8	65	28	35	33	97	+0.005	0.8
420.0003.364	HSK-E63-EM10-65	63	10	65	35	39	33	97	+0.005	0.9
420.0004.364	HSK-E63-EM12-80	63	12	80	42	44	48	112	+0.005	1.2
420.0005.364	HSK-E63-EM14-80	63	14	80	44	44	48	112	+0.005	1.3
420.0006.364	HSK-E63-EM16-80	63	16	80	48	47	48	112	+0.005	1.4
420.0008.364	HSK-E63-EM20-80	63	20	80	52	49	48	112	+0.007	1.5

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

Standard Specification: With clamping screw. From location hole d1 = 25mm two clamping screws are included.

注意:

- 1.带孔的止动螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

Note:

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
- 2.Other designs and sizes are available on request.

ACCESSORIES

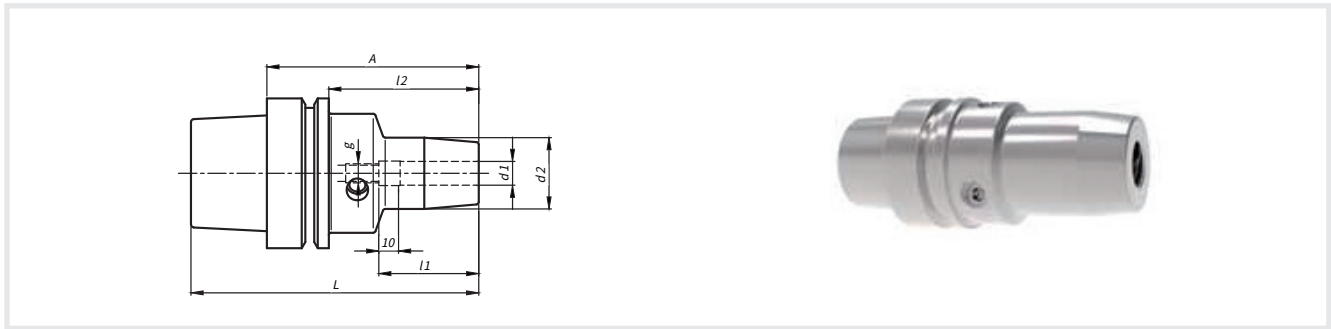
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液压夹头刀柄
Hydraulic Expansion Chunks



No.	Model	Size	d1	A	d2	l1	l2	g	L	kg
702.0001.362	HSK-E40-HD6-70	40	6	70	26	37	50	M5	90	0.7
702.0002.362	HSK-E40-HD8-70	40	8	70	28	37	50	M6	90	0.7
702.0003.362	HSK-E40-HD10-75	40	10	75	30	41	55	M8	95	0.8
702.0004.362	HSK-E40-HD12-80	40	12	80	32	46	60	M10	100	0.8
702.0001.363	HSK-E50-HD6-70	50	6	70	26	37	44	M5	95	0.8
702.0002.363	HSK-E50-HD8-70	50	8	70	28	37	44	M6	95	0.8
702.0003.363	HSK-E50-HD10-75	50	10	75	30	41	49	M8	100	0.9
702.0004.363	HSK-E50-HD12-80	50	12	80	32	46	54	M10	105	1.0
702.0005.363	HSK-E50-HD14-80	50	14	80	34	46	54	M10	105	1.0
702.0006.363	HSK-E50-HD16-90	50	16	90	40	49	64	M12	115	1.1
702.0007.363	HSK-E50-HD18-90	50	18	90	40	49	64	M12	115	1.1
702.0008.363	HSK-E50-HD20-90	50	20	90	42	51	64	M16	115	1.1

用途:用于DIN1835 A、B型和DIN6535 HA、HB型,其中DIN6535 HE型仅适用于带衬套的刀具。

设计:夹持精度为h6,粗糙度最小为Ra0.3,对于φ25和φ32尺寸只有A、HA型可用。

注意:

- 1.其他设计和尺寸也可根据要求提供。
- 2.工具架夹紧长度必须与尺寸L1-V相同,否则可能会出现夹紧力减少、工具从支架上脱落、工具无法拆卸或工具架损坏等问题。

Use: For shank tools according to DIN 1835 type A and B and DIN 6535 type HA and HB.

Shanks according to DIN 6535 type HE can only be used together with reduction bushes.

Design: Shank quality h6, Ra min. = 0.3. For φ 25 and φ 32 only type A or HA can be used.

Note:

1. Other designs and sizes are available on request.
2. Toolholder clamping length must be same to size L1-V. If not, problem may happen such as clamping force may be reduced, tools fall off the holder, tool couldn't be dismantled or toolholder damage and so on.

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ER/ESX ER-11/16弹簧夹头刀柄(不带调整螺钉孔)

Collet Chucks ER/ESX 11/16 with internal thread



No.	Model	Size	ER	A	d1	D	l1	L	kg
698.0211.362	HSK-E40-ER11-60	40	ER11(0.5-7)	60	18.5	19	42	80	0.3
698.0201.362	HSK-E40-ER16-60	40	ER16(0.5-10)	60	28	32	40	80	0.4
698.0201.363	HSK-E50-ER16-100	50	ER16(0.5-10)	100	28	32	70	125	0.8

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

出厂标准产品包括:夹紧螺母。

Standard Specification: Collet chuck including clamping nut.

注意:其他的设计和尺寸也可根据要求提供。

Note:Other designs and sizes are available on request.

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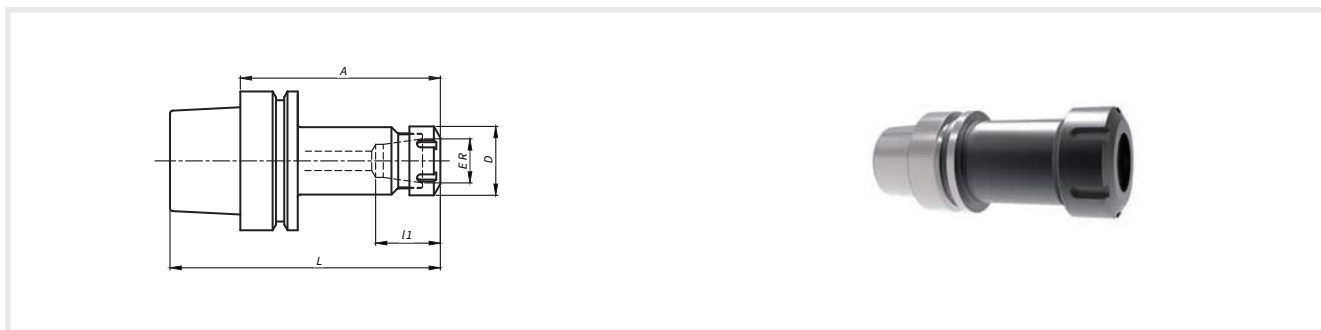
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ER/ESXER-20/25/32/40弹簧夹头刀柄(不带调整螺钉孔)

Collet Chucks ER/ESX 20/25/32/40 with internal thread



No.	Model	Size	ER	A	D	l1	L	kg
697.0201.362	HSK-E40-ER25-80	40	ER25(1-16)	80	42	60	100	0.8
697.0204.363	HSK-E50-ER25-100	50	ER25(1-16)	100	42	72	125	1.2
697.0201.363	HSK-E50-ER32-100	50	ER32(2-20)	100	50	73	125	1.5

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

出厂标准产品包括:夹紧螺母。

Standard Specification: Collet chuck including clamping nut.


注意:其他的设计和尺寸也可根据要求提供。

Note:Other designs and sizes are available on request.

HSK 刀柄

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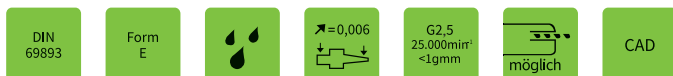
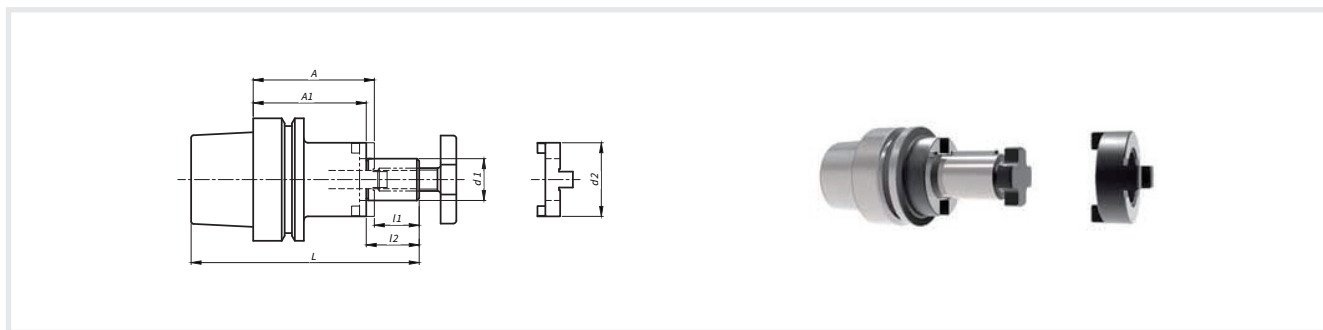
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套式铣刀柄 (带平键和传动环)

Shell End Mill Arbors



No.	Model	Size	d1	A	A1	d2	l3	l4	L	kg
489.0001.363	HSK-E50-SEMC16-50	50	16	50	40	32	17	27	92	0.5
489.0002.363	HSK-E50-SEMC22-50	50	22	50	38	40	19	31	94	0.6
489.0003.363	HSK-E50-SEMC27-65	50	27	65	53	48	21	33	111	0.9
489.0004.363	HSK-E50-SEMC32-65	50	32	65	51	58	24	38	114	1.1

规格型号:用于夹持轴向平键或端面键驱动的面铣刀。

Use: For clamping shell end mills and milling cutters with longitudinal slot or tenon drive.

设计:带有中心冷却功能,传动环符合DIN 138。

Design:Central boring for coolant supply. Cutter drive according to DIN 138.

出厂标准产品包括紧固螺钉、带有螺孔的平键和传动环等。

Standard Specification: Cutter retaining screw, feather key with withdrawal thread and drive ring included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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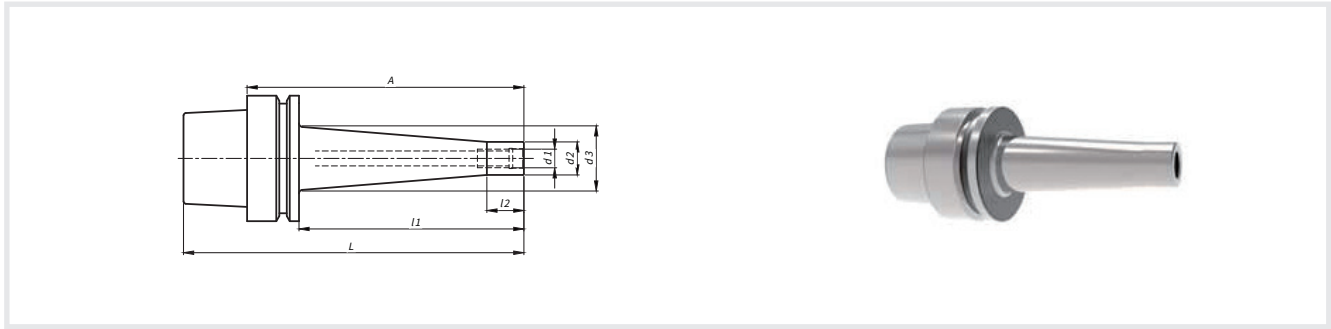
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KFS模块式铣刀柄

Holders for screw-in milling cutters



No.	Model	Size	d1	A	d2	d3	l1	l2	L	kg
571.0001.362	HSK-E40-KFS8-45	40	M8	45	12.8	15	25	12	65	0.3
571.0011.362	HSK-E40-KFS8-70	40	M8	70	12.8	23	50	12	90	0.3
571.0021.362	HSK-E40-KFS8-95	40	M8	95	12.8	23	75	12	115	0.4
571.0002.362	HSK-E40-KFS10-45	40	M10	45	17.8	20	25	12	65	0.3
571.0012.362	HSK-E40-KFS10-70	40	M10	70	17.8	25	50	12	90	0.4
571.0022.362	HSK-E40-KFS10-95	40	M10	95	17.8	25	75	12	115	0.4
571.0001.363	HSK-E50-KFS8-51	50	M8	51	12.8	15	25	12	76	0.5
571.0011.363	HSK-E50-KFS8-76	50	M8	76	12.8	23	50	12	101	0.5
571.0021.363	HSK-E50-KFS8-101	50	M8	101	12.8	23	75	12	126	0.6
571.0031.363	HSK-E50-KFS8-126	50	M8	126	12.8	23	100	12	151	0.6
571.0002.363	HSK-E50-KFS10-51	50	M10	51	17.8	20	25	12	76	0.5
571.0012.363	HSK-E50-KFS10-76	50	M10	76	17.8	25	50	12	101	0.6
571.0022.363	HSK-E50-KFS10-101	50	M10	101	17.8	25	75	12	126	0.6
571.0032.363	HSK-E50-KFS10-126	50	M10	126	17.8	32	100	12	151	0.8
571.0003.363	HSK-E50-KFS12-51	50	M12	51	20.8	24	25	12	76	0.5
571.0013.363	HSK-E50-KFS12-76	50	M12	76	20.8	28	50	12	101	0.6
571.0023.363	HSK-E50-KFS12-101	50	M12	101	20.8	31	75	12	126	0.7
571.0033.363	HSK-E50-KFS12-126	50	M12	126	20.8	33	100	12	151	0.8

使用方向:用于夹紧以螺纹连接的铣刀。

Use:For holding the milling tools with thread.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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PSC-Polygoal Taper Shanks

PSC-ISO 26623-1

PSC-Holder Tools



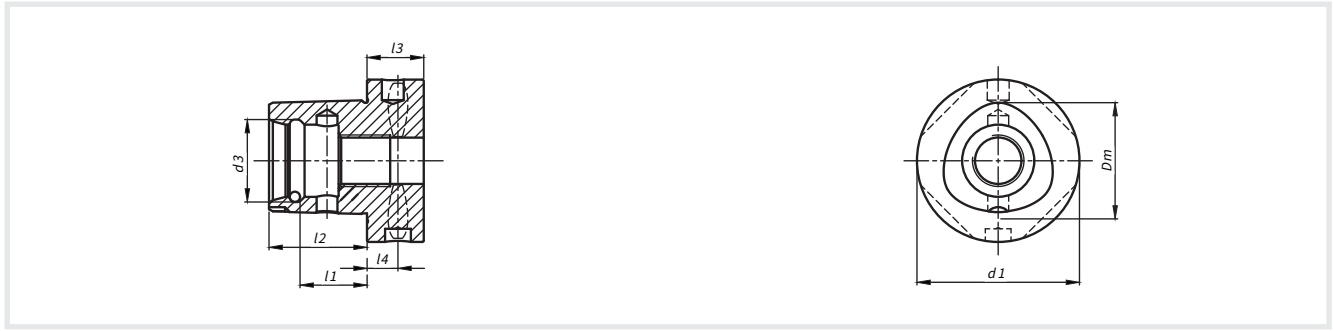
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PSC-Polygoal Taper Shanks

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PSC刀柄

Tool Holders for Polygonal Taper Shanks

ISO
26623-1

PSC	d1	d3±0.05	l2±0.1	l3	l1±0.1	l4	Dm
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

无孔的三棱锥符合ISO 26623-1型

设计:刀柄硬度应满足临界变形指数,硬度的应该维持在HV670±40(近似于HRC 58±2),淬硬(渗碳)层在0.3-0.6mm以上。

材料:符合硬度要求的合金钢,所承受扭矩为980N/MM²。

说明:价格和交付情况如有变化会在详单上实时变更。(单位:mm)

仅凯狮有权对此类产品的技术参数进行更改。

Polygonal taper shanks according to ISO 26623-1 without bore for identification ship.

Design: The hardness shall meet the low deformation, with HV 670±40 (approximately HRC 58±2) and hardened (carburize) layer above 0.3-0.6mm.

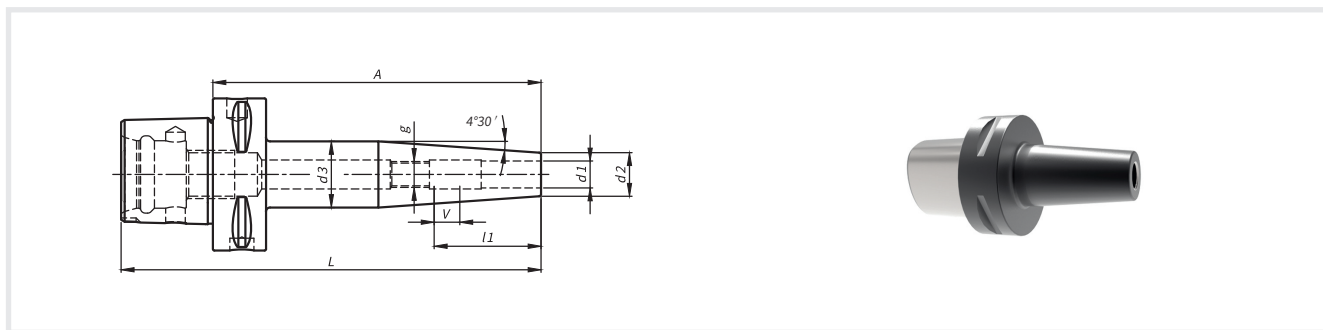
Material: The alloy steel material of the clamping tools meet the hardness requirements and can withstand torque of 980 N/ MM².

Description: Price and delivery will change in real time on the details. (Units in mm)

Only Kelch retains the authority to modify the technology.

热装夹头刀柄 (标准型)

i-tec® Shrink-fit Chucks



No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.0001.381	PSC32-SRK6-65	32	6	65	21	27	36	M5	84	10	0.3
311.0002.381	PSC32-SRK8-65	32	8	65	21	27	36	M6	84	10	0.3
311.0003.381	PSC32-SRK10-70	32	10	70	24	32	41	M8×1	89	10	0.4
311.0004.381	PSC32-SRK12-75	32	12	75	24	32	47	M10×1	94	10	0.5
311.0001.382	PSC40-SRK6-75	40	6	75	21	27	36	M5	99	10	0.5
311.0002.382	PSC40-SRK8-75	40	8	75	21	27	36	M6	99	10	0.5
311.0003.382	PSC40-SRK10-75	40	10	75	24	32	41	M8×1	99	10	0.6
311.0004.382	PSC40-SRK12-75	40	12	75	24	32	47	M10×1	99	10	0.6
311.0005.382	PSC40-SRK14-80	40	14	80	27	34	47	M10×1	104	10	0.6
311.0006.382	PSC40-SRK16-80	40	16	80	27	34	50	M12×1	104	10	0.6
311.0007.382	PSC40-SRK18-80	40	18	80	33	42	50	M12×1	104	10	0.8
311.0008.382	PSC40-SRK20-85	40	20	85	33	42	52	M16×1	109	10	0.9
311.0011.383	PSC50-SRK3-65	50	3	65	12	17	-	-	95	-	0.5
311.0014.383	PSC50-SRK4-65	50	4	65	12	17	-	-	95	-	0.5
311.0017.383	PSC50-SRK5-65	50	5	65	12	17	-	-	95	-	0.5
311.0001.383	PSC50-SRK6-75	50	6	75	21	30	36	M5	105	10	0.7
311.0031.383	PSC50-SRK6-120	50	6	120	21	32	36	M5	150	10	1.0
311.0002.383	PSC50-SRK8-75	50	8	75	21	30	36	M6	105	10	0.7
311.0032.383	PSC50-SRK8-120	50	8	120	21	32	36	M6	150	10	1.0
311.0003.383	PSC50-SRK10-75	50	10	75	24	33	41	M8×1	105	10	0.7
311.0033.383	PSC50-SRK10-120	50	10	120	24	34	41	M8×1	150	10	1.1
311.0004.383	PSC50-SRK12-75	50	12	75	24	33	47	M10×1	105	10	0.7
311.0034.383	PSC50-SRK12-120	50	12	120	24	34	47	M10×1	150	10	1.1
311.0005.383	PSC50-SRK14-80	50	14	80	27	34	47	M10×1	110	10	0.8
311.0035.383	PSC50-SRK14-120	50	14	120	27	36	47	M10×1	150	10	1.1
311.0006.383	PSC50-SRK16-80	50	16	80	27	34	50	M12×1	110	10	0.8
311.0036.383	PSC50-SRK16-120	50	16	120	27	36	50	M12×1	150	10	1.1
311.0007.383	PSC50-SRK18-80	50	18	80	33	42	50	M12×1	110	10	1.0
311.0037.383	PSC50-SRK18-120	50	18	120	33	42	50	M12×1	150	10	1.4
311.0008.383	PSC50-SRK20-85	50	20	85	33	42	52	M16×1	115	10	1.0

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.0038.383	PSC50-SRK20-120	50	20	120	33	42	52	M16×1	150	10	1.4
311.0009.383	PSC50-SRK25-90	50	25	90	44	53	58	M16×1	120	10	1.5
311.0039.383	PSC50-SRK25-120	50	25	120	44	53	58	M16×1	150	10	2.0
311.0011.384	PSC63-SRK3-80	63	3	80	12	17	-	-	118	-	0.8
311.0014.384	PSC63-SRK4-80	63	4	80	12	17	-	-	118	-	0.8
311.0017.384	PSC63-SRK5-80	63	5	80	12	17	-	-	118	-	0.8
311.0001.384	PSC63-SRK6-80	63	6	80	21	27	36	M5	118	10	1.0
311.0031.384	PSC63-SRK6-120	63	6	120	21	32	36	M5	158	10	1.3
311.0041.384	PSC63-SRK6-160	63	6	160	21	32	36	M5	198	10	1.5
311.0002.384	PSC63-SRK8-80	63	8	80	21	27	36	M6	118	10	1.0
311.0032.384	PSC63-SRK8-120	63	8	120	21	32	36	M6	158	10	1.3
311.0042.384	PSC63-SRK8-160	63	8	160	21	32	36	M6	198	10	1.5
311.0003.384	PSC63-SRK10-80	63	10	80	24	32	41	M8×1	118	10	1.1
311.0033.384	PSC63-SRK10-120	63	10	120	24	34	41	M8×1	158	10	1.4
311.0043.384	PSC63-SRK10-160	63	10	160	24	34	41	M8×1	198	10	1.6
311.0004.384	PSC63-SRK12-80	63	12	80	24	32	47	M10×1	118	10	1.1
311.0034.384	PSC63-SRK12-120	63	12	120	24	34	47	M10×1	158	10	1.4
311.0044.384	PSC63-SRK12-160	63	12	160	24	34	47	M10×1	198	10	1.6
311.0005.384	PSC63-SRK14-85	63	14	85	27	34	47	M10×1	123	10	1.1
311.0035.384	PSC63-SRK14-120	63	14	120	27	36	47	M10×1	158	10	1.4
311.0045.384	PSC63-SRK14-160	63	14	160	27	36	47	M10×1	198	10	1.7
311.0006.384	PSC63-SRK16-85	63	16	85	27	34	50	M12×1	123	10	1.1
311.0036.384	PSC63-SRK16-120	63	16	120	27	36	50	M12×1	158	10	1.4
311.0046.384	PSC63-SRK16-160	63	16	160	27	36	50	M12×1	198	10	1.7
311.0007.384	PSC63-SRK18-85	63	18	85	33	42	50	M12×1	123	10	1.4
311.0037.384	PSC63-SRK18-120	63	18	120	33	44	50	M12×1	158	10	1.8
311.0047.384	PSC63-SRK18-160	63	18	160	33	44	50	M12×1	198	10	2.2
311.0008.384	PSC63-SRK20-85	63	20	85	33	42	52	M16×1	123	10	1.4
311.0038.384	PSC63-SRK20-120	63	20	120	33	44	52	M16×1	158	10	1.8
311.0048.384	PSC63-SRK20-160	63	20	160	33	44	52	M16×1	198	10	2.2
311.0009.384	PSC63-SRK25-90	63	25	90	44	53	58	M16×1	128	10	1.8
311.0039.384	PSC63-SRK25-120	63	25	120	44	53	58	M16×1	158	10	2.3
311.0049.384	PSC63-SRK25-160	63	25	160	44	53	58	M16×1	198	10	2.9
311.0010.384	PSC63-SRK32-95	63	32	95	44	53	61	M16×1	133	10	1.9
311.0040.384	PSC63-SRK32-120	63	32	120	44	53	61	M16×1	158	10	2.3
311.0050.384	PSC63-SRK32-160	63	32	160	44	53	61	M16×1	198	10	2.9
311.0001.385	PSC80-SRK6-85	80	6	85	21	27	36	M5	133	10	1.9
311.0031.385	PSC80-SRK6-120	80	6	120	21	32	36	M5	168	10	2.2
311.0002.385	PSC80-SRK8-85	80	8	85	21	27	36	M6	133	10	1.9
311.0032.385	PSC80-SRK8-120	80	8	120	21	32	36	M6	168	10	2.2
311.0003.385	PSC80-SRK10-85	80	10	85	24	32	41	M8×1	133	10	2.0
311.0033.385	PSC80-SRK10-120	80	10	120	24	34	41	M8×1	168	10	2.3
311.0004.385	PSC80-SRK12-85	80	12	85	24	32	47	M10×1	133	10	2.0
311.0034.385	PSC80-SRK12-120	80	12	120	24	34	47	M10×1	168	10	2.3
311.0005.385	PSC80-SRK14-90	80	14	90	27	34	47	M10×1	138	10	2.1
311.0035.385	PSC80-SRK14-120	80	14	120	27	36	47	M10×1	168	10	2.4

No.	Model	Size	d1	A	d2	d3	l1	g	L	v	kg
311.0006.385	PSC80-SRK16-90	80	16	90	27	34	50	M12×1	138	10	2.1
311.0036.385	PSC80-SRK16-120	80	16	120	27	36	50	M12×1	168	10	2.4
311.0007.385	PSC80-SRK18-90	80	18	90	33	42	50	M12×1	138	10	2.3
311.0037.385	PSC80-SRK18-120	80	18	120	33	44	50	M12×1	168	10	2.7
311.0008.385	PSC80-SRK20-90	80	20	90	33	42	52	M16×1	138	10	2.3
311.0038.385	PSC80-SRK20-120	80	20	120	33	44	52	M16×1	168	10	2.7
311.0009.385	PSC80-SRK25-95	80	25	95	44	53	58	M16×1	143	10	2.7
311.0039.385	PSC80-SRK25-120	80	25	120	44	53	58	M16×1	168	10	3.1
311.0010.385	PSC80-SRK32-100	80	32	100	44	53	61	M16×1	148	10	2.8
311.0040.385	PSC80-SRK32-120	80	32	120	44	53	61	M16×1	168	10	3.1

设计:请使用柄部直径公差h6级的硬质合金刀具。
带有中心冷却功能。

出厂标准产品不包括调整长度的调整螺钉。

注意:

- 1、其他型号和尺寸可按订货要求制作。
- 2、装夹刀具的刀柄夹紧长度必须保证L1-V尺寸,否则将造成夹紧力减小、掉刀、刀具卸不下来和刀柄损坏等现象。
- 3、建议使用专用热装机装卸刀具。

Design:The clamping diameter is designed for a cemented carbide shank tolerance of h6.

Standard Specification is not included the Adjusting screw for length adjustment.

Note:

- 1.Other designs and sizes are available on request.
- 2.Toolholder clamping length must be same to size L1-V. if not,problem may happen such as clamping force maybe reduced, tools fall off the holder,tool couldn't be dismantled or toolholder damage and so on.
- 3.Special shrinking devices are recommended for tool mounting and dismantling.

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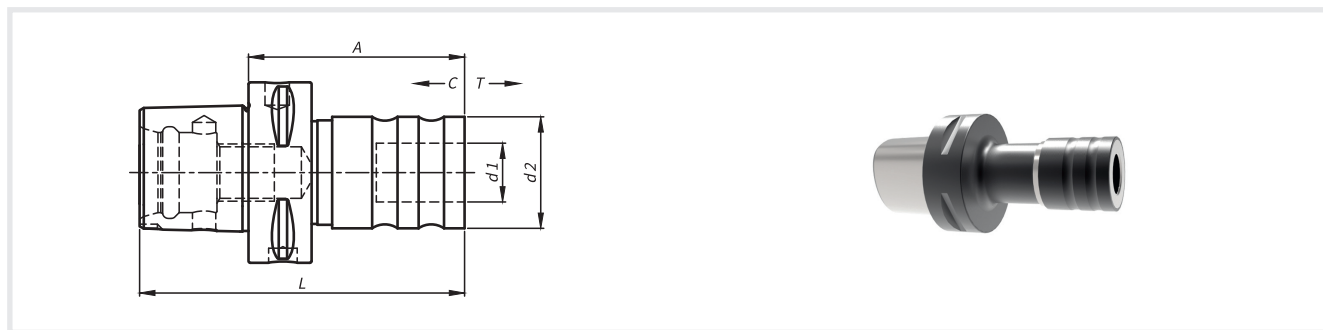
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丝锥快换夹头刀柄

Quick Change Tapping Chucks



No.	Model	Size	M	A	d1	d2	L	C	T	kg
440.0001.381	PSC32-G3-90	32	M3-M14	90	19	36	109	6.5	7.5	0.6
440.0001.382	PSC40-G3-90	40	M3-M14	90	19	36	114	6.5	7.5	0.8
440.0002.382	PSC40-G8-125	40	M4.5-M24	125	31	53	149	8.5	15	1.9
440.0001.383	PSC50-G3-90	50	M3-M14	90	19	36	120	6.5	7.5	0.9
440.0002.383	PSC50-G8-130	50	M4.5-M24	130	31	53	160	8.5	15	2.1
440.0001.384	PSC63-G3-90	63	M3-M14	90	19	36	128	6.5	7.5	1.2
440.0002.384	PSC63-G8-135	63	M4.5-M24	135	31	53	173	8.5	15	2.5
440.0001.385	PSC80-G3-90	80	M3-M14	90	19	36	138	6.5	7.5	2.1
440.0002.385	PSC80-G8-125	80	M4.5-M24	125	31	53	173	8.5	15	3.2

使用方向:用于夹持带或不带安全机构的快换丝锥夹套。

Use: For holding quick changeinserts with or without safety clutch.

设计:

- 1.长度补偿在收缩和拉伸方向取决于进给和螺距的不同。
- 2.当攻丝的轴向力达到临界值时会立即切断攻丝,以避免拉力释放时,夹套因承受过大轴向拉力造成不可逆的损害。

Design:1. Length compensation on compression and tension to compensate the difference between feed and tap pitch.
2.The pressure point mechanism guarantees that the tap immediately cuts the thread as soon as the permissible axial force is reached.

The tension lock protects the tapping chuck against damage as a result of high axial tensile load.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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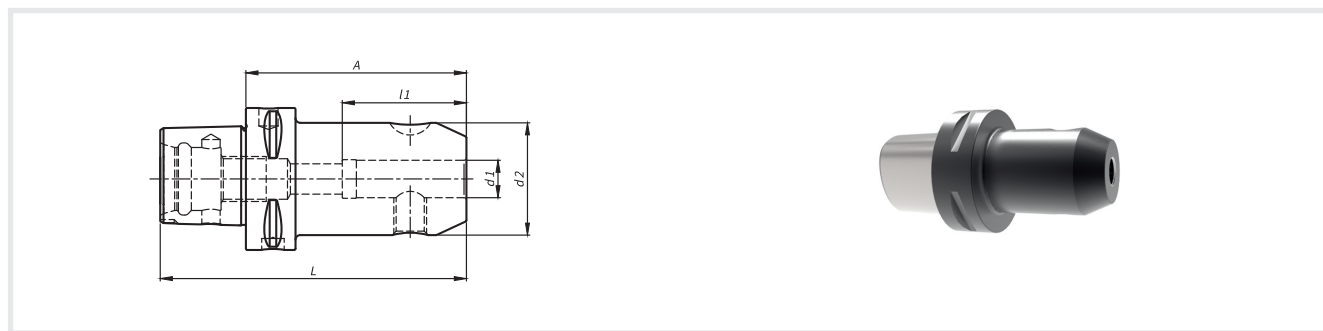
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削平型直柄立铣刀柄(威尔顿型)

Reduction Sleeves for Straight Shanks with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	L	Tol./d1	Screw	kg
420.0001.381	PSC32-EM6-45	32	6	45	25	35	64	+0.005	M6X10	0.2
420.0002.381	PSC32-EM8-45	32	8	45	28	35	64	+0.005	M8X10	0.2
420.0003.381	PSC32-EM10-50	32	10	50	35	39	69	+0.005	M10X12	0.3
420.0004.381	PSC32-EM12-55	32	12	55	42	44	74	+0.005	M12X16	0.5
420.0001.382	PSC40-EM6-50	40	6	50	25	35	74	+0.005	M6X10	0.4
420.0002.382	PSC40-EM8-50	40	8	50	28	35	74	+0.005	M8X10	0.4
420.0003.382	PSC40-EM10-50	40	10	50	35	39	74	+0.005	M10X12	0.5
420.0004.382	PSC40-EM12-55	40	12	55	42	44	79	+0.005	M12X16	0.6
420.0005.382	PSC40-EM14-55	40	14	55	44	44	79	+0.005	M12X16	0.6
420.0006.382	PSC40-EM16-55	40	16	55	48	47	79	+0.005	M14X16	0.7
420.0001.383	PSC50-EM6-50	50	6	50	25	35	80	+0.005	M6X10	0.5
420.0002.383	PSC50-EM8-50	50	8	50	28	35	80	+0.005	M8X10	0.5
420.0003.383	PSC50-EM10-55	50	10	55	35	39	85	+0.005	M10X12	0.6
420.0004.383	PSC50-EM12-60	50	12	60	42	44	90	+0.005	M12X16	0.8
420.0005.383	PSC50-EM14-60	50	14	60	44	44	90	+0.005	M12X16	0.8
420.0006.383	PSC50-EM16-60	50	16	60	48	47	90	+0.005	M14X16	0.9
420.0007.383	PSC50-EM18-60	50	18	60	50	47	90	+0.005	M14X16	1.0
420.0008.383	PSC50-EM20-60	50	20	60	52	49	90	+0.007	M16X16	1.0
420.0009.383	PSC50-EM25-80	50	25	80	65	54	110	+0.007	M18X2X20	1.8
420.0001.384	PSC63-EM6-55	63	6	55	25	35	93	+0.005	M6X10	0.9
420.0002.384	PSC63-EM8-55	63	8	55	28	35	93	+0.005	M8X10	0.9
420.0003.384	PSC63-EM10-60	63	10	60	35	39	98	+0.005	M10X12	1.0
420.0004.384	PSC63-EM12-60	63	12	60	42	44	98	+0.005	M12X16	1.1
420.0005.384	PSC63-EM14-60	63	14	60	44	44	98	+0.005	M12X16	1.1
420.0006.384	PSC63-EM16-65	63	16	65	48	47	103	+0.005	M14X16	1.3
420.0007.384	PSC63-EM18-65	63	18	65	50	47	103	+0.005	M14X16	1.3
420.0008.384	PSC63-EM20-65	63	20	65	52	49	103	+0.007	M16X16	1.4
420.0009.384	PSC63-EM25-80	63	25	80	65	54	118	+0.007	M18X2X20	2.1

No.	Model	Size	d1	A	d2	l1	L	Tol./d1	Screw	kg
420.0010.384	PSC63-EM32-90	63	32	90	72	58	128	+0.007	M20X2X20	2.7
420.0011.384	PSC63-EM40-100	63	40	100	80	75	138	+0.007	M20X2X20	3.5
420.0001.385	PSC80-EM6-70	80	6	70	25	35	118	+0.005	M6X10	1.8
420.0002.385	PSC80-EM8-70	80	8	70	28	35	118	+0.005	M8X10	1.9
420.0003.385	PSC80-EM10-70	80	10	70	35	39	118	+0.005	M10X12	2.0
420.0004.385	PSC80-EM12-70	80	12	70	42	44	118	+0.005	M12X16	2.1
420.0005.385	PSC80-EM14-70	80	14	70	44	44	118	+0.005	M12X16	2.1
420.0006.385	PSC80-EM16-70	80	16	70	48	47	118	+0.005	M14X16	2.2
420.0007.385	PSC80-EM18-70	80	18	70	50	47	118	+0.005	M14X16	2.3
420.0008.385	PSC80-EM20-70	80	20	70	52	49	118	+0.007	M16X16	2.3
420.0009.385	PSC80-EM25-80	80	25	80	65	54	128	+0.007	M18X2X20	2.9
420.0010.385	PSC80-EM32-80	80	32	80	72	58	128	+0.007	M20X2X20	3.1
420.0011.385	PSC80-EM40-110	80	40	110	80	75	158	+0.007	M20X2X20	4.6
420.0012.385	PSC80-EM50-120	80	50	120	100	83	168	+0.007	M24X2X20	6.7

使用方向:此刀柄按 DIN 1835B型和DIN 6535 HB型夹持直柄铣刀。

Use: For holding shank tools with inclined clamping, DIN 1835 B and DIN 6535 HB.

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

Standard Specification:With clamping screw.From location hole d1 = 25mm 2 clamping screws are included.

注意:

Note:

- 1.带孔的止动螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
- 2.Other designs and sizes are available on request.

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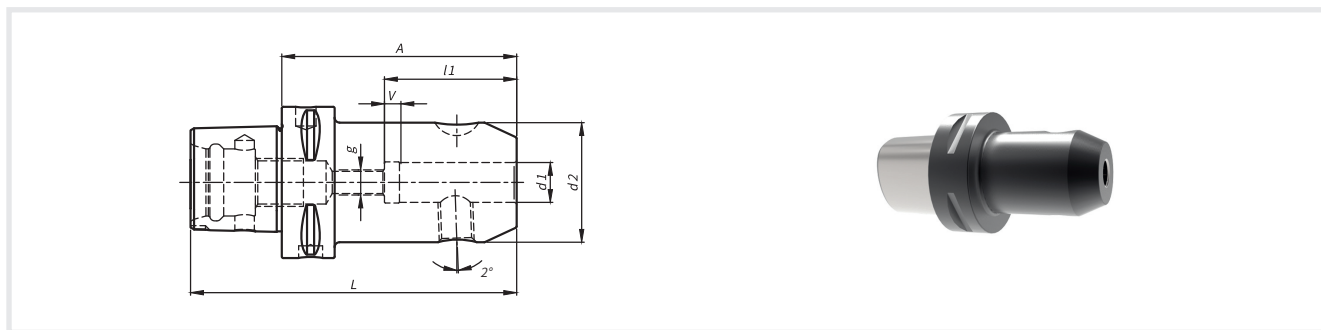
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2°斜削平型直柄立铣刀柄(威斯尔凹口型)

Reduction Sleeves for Straight Shanks 2° with inclined driving surface (Whistle Notch)



No.	Model	Size	d1	A	d2	l1	g	L	Screw	kg
420.0151.381	PSC32-EME6-70	32	6	70	25	38	M5	89	M6X10	0.3
420.0152.381	PSC32-EME8-70	32	8	70	28	38	M6	89	M8X10	0.3
420.0153.381	PSC32-EME10-70	32	10	70	35	41	M8	89	M10X12	0.5
420.0154.381	PSC32-EME12-75	32	12	75	42	47	M10	94	M12X16	0.7
420.0151.382	PSC40-EME6-70	40	6	70	25	38	M5	94	M6X10	0.4
420.0152.382	PSC40-EME8-70	40	8	70	28	38	M6	94	M8X10	0.5
420.0153.382	PSC40-EME10-70	40	10	70	35	41	M8	94	M10X12	0.6
420.0154.382	PSC40-EME12-75	40	12	75	42	47	M10	99	M12X16	0.8
420.0155.382	PSC40-EME14-75	40	14	75	44	47	M10	99	M12X16	0.8
420.0151.383	PSC50-EME6-70	50	6	70	25	38	M5	100	M6X10	0.6
420.0152.383	PSC50-EME8-70	50	8	70	28	38	M6	100	M8X10	0.6
420.0153.383	PSC50-EME10-70	50	10	70	35	41	M8	100	M10X12	0.8
420.0154.383	PSC50-EME12-75	50	12	75	42	47	M10	105	M12X16	0.9
420.0155.383	PSC50-EME14-75	50	14	75	44	47	M10	105	M12X16	1.0
420.0156.383	PSC50-EME16-80	50	16	80	48	50	M12	110	M14X16	1.2
420.0157.383	PSC50-EME18-80	50	18	80	50	50	M12	110	M14X16	1.2
420.0158.383	PSC50-EME20-85	50	20	85	52	52	M16	115	M16X16	1.4
420.0151.384	PSC63-EME6-75	63	6	75	25	38	M5	113	M6X10	0.9
420.0152.384	PSC63-EME8-75	63	8	75	28	38	M6	113	M8X10	1.0
420.0153.384	PSC63-EME10-75	63	10	75	35	41	M8	113	M10X12	1.1
420.0154.384	PSC63-EME12-80	63	12	80	42	47	M10	118	M12X16	1.3
420.0155.384	PSC63-EME14-80	63	14	80	44	47	M10	118	M12X16	1.4
420.0156.384	PSC63-EME16-80	63	16	80	48	50	M12	118	M14X16	1.5
420.0157.384	PSC63-EME18-80	63	18	80	50	50	M12	118	M14X16	1.5
420.0158.384	PSC63-EME20-85	63	20	85	52	52	M16	123	M16X16	1.7
420.0159.384	PSC63-EME25-90	63	25	90	65	58	M16	128	M18X2X20	2.3
420.0160.384	PSC63-EME32-95	63	32	95	72	61	M16	133	M20X2X20	2.8

No.	Model	Size	d1	A	d2	l1	g	L	Screw	kg
420.0151.385	PSC80-EME6-65	80	6	65	25	38	M5	113	M6X10	1.8
420.0152.385	PSC80-EME8-65	80	8	65	28	38	M6	113	M8X10	1.9
420.0153.385	PSC80-EME10-65	80	10	65	35	41	M8	113	M10X12	1.9
420.0154.385	PSC80-EME12-70	80	12	70	42	47	M10	118	M12X16	2.1
420.0155.385	PSC80-EME14-70	80	14	70	44	47	M10	118	M12X16	2.1
420.0156.385	PSC80-EME16-75	80	16	75	48	50	M12	123	M14X16	2.3
420.0157.385	PSC80-EME18-75	80	18	75	50	50	M12	123	M14X16	2.3
420.0158.385	PSC80-EME20-80	80	20	80	52	52	M16	128	M16X16	2.5
420.0159.385	PSC80-EME25-90	80	25	90	65	58	M16	138	M18X2X20	3.1
420.0160.385	PSC80-EME32-95	80	32	95	72	61	M16	143	M20X2X20	3.6

使用方向:此2°刀柄按 DIN 1835E型和DIN 6535 HE型夹持直柄铣刀。

出厂标准产品包括:配好的夹紧螺钉,对于大于25mm的孔,提供2个紧固螺钉。

注意:

- 1.带孔的止动螺钉用于内冷却。
- 2.其他型号和尺寸可按订货要求制作。

Use: For holding shank tools with inclined clamping with 2 angle, DIN 1835 E and DIN 6535 HE.

Standard Specification:With clamping screw.From location hole d1 = 25mm 2 clamping screws are included.

Note:

- 1.The Adjusting Screws with inner hole uses for inside coolanting.
2. Other designs and sizes are available on request.

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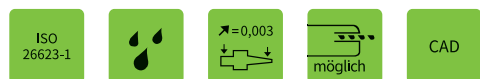
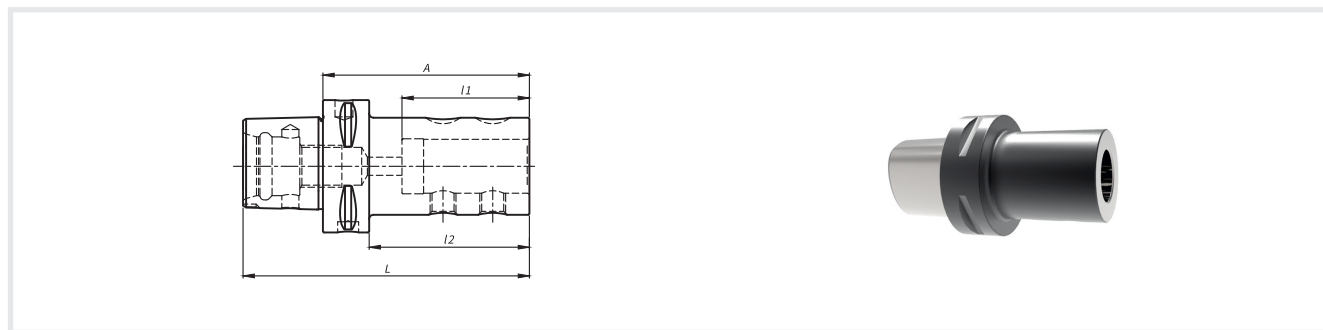
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削平型浅孔钻刀柄

Indexable Drill Holders



No.	Model	Size	d1	A	d2	l1	l2	L	kg
590.0006.381	PSC32-EMU16-55	32	16	55	36	49	40	74	0.4
590.0008.381	PSC32-EMU20-60	32	20	60	40	54	45	79	0.4
590.0006.382	PSC40-EMU16-60	40	16	60	36	49	40	84	0.5
590.0008.382	PSC40-EMU20-60	40	20	60	40	54	40	84	0.5
590.0009.382	PSC40-EMU25-80	40	25	80	45	59	60	104	0.8
590.0006.383	PSC50-EMU16-65	50	16	65	36	49	45	95	0.7
590.0008.383	PSC50-EMU20-65	50	20	65	40	54	45	95	0.7
590.0009.383	PSC50-EMU25-70	50	25	70	45	59	50	100	0.8
590.0010.383	PSC50-EMU32-75	50	32	75	52	63	55	105	0.9
590.0006.384	PSC63-EMU16-70	63	16	70	36	49	48	108	1.0
590.0008.384	PSC63-EMU20-70	63	20	70	40	54	48	108	1.1
590.0009.384	PSC63-EMU25-75	63	25	75	45	59	53	113	1.2
590.0010.384	PSC63-EMU32-75	63	32	75	52	63	53	113	1.2
590.0011.384	PSC63-EMU40-85	63	40	85	65	73	63	123	1.7
590.0012.384	PSC63-EMU50-115	63	50	115	75	83	93	153	2.7
590.0006.385	PSC80-EMU16-80	80	16	80	36	49	50	128	2.0
590.0008.385	PSC80-EMU20-80	80	20	80	40	54	50	128	2.1
590.0009.385	PSC80-EMU25-85	80	25	85	45	59	55	133	2.2
590.0010.385	PSC80-EMU32-90	80	32	90	52	63	60	138	2.3
590.0011.385	PSC80-EMU40-95	80	40	95	65	73	65	143	2.7
590.0012.385	PSC80-EMU50-100	80	50	100	75	83	70	148	2.9

使用方向:用于夹持的浅孔钻柄部符合DIN 6595和ISO 9766。

Use: For holding Indexable Drills with shaft according to DIN 6595 and ISO 9766.

设计:螺纹孔的位置与夹持的浅孔钻柄部根据DIN 6595设有0.4mm的错位间隙,螺钉连接时可拉紧浅孔钻。

Design: Position of the front threaded pin opposite the countersunk point in straight shank offset by 0.4mm according to DIN 6595. The offset allows the flange of the drill to be clamped against the contact face of the tool holder when the threaded pin is tightened.

出厂标准产品包括:包括夹紧螺钉。

Standard Specification:Clamping screw included.

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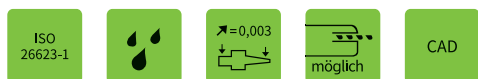
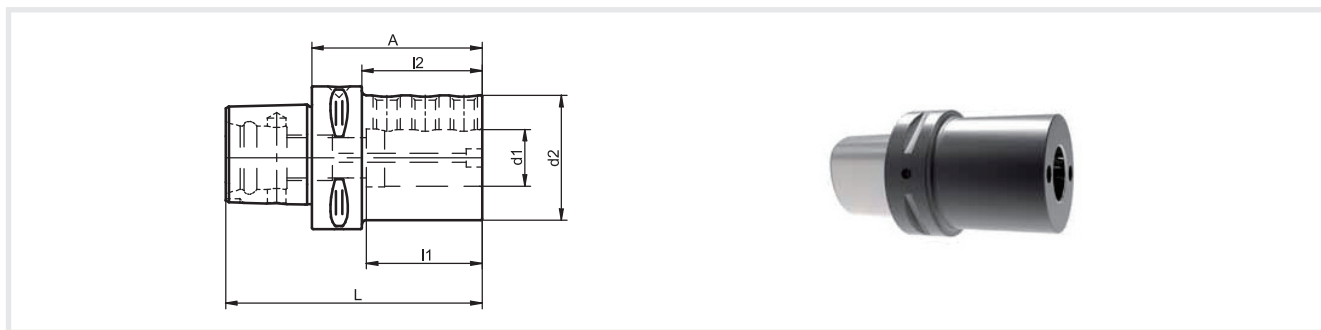
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内孔切削刀具用刀柄

Internal Hole Cutting Holders



No.	Model	Size	d1	A	d2	l1	l2	L	kg
590.0201.383	PSC50-EMU6-70	50	6	70	40	40	50	100	0.9
590.0202.383	PSC50-EMU8-70	50	8	70	44	40	50	100	1.0
590.0203.383	PSC50-EMU10-70	50	10	70	44	45	50	100	1.0
590.0204.383	PSC50-EMU12-70	50	12	70	44	45	50	100	1.0
590.0206.383	PSC50-EMU16-75	50	16	75	44	45	55	105	1.0
590.0208.383	PSC50-EMU20-75	50	20	75	50	51	55	105	1.1
590.0209.383	PSC50-EMU25-80	50	25	80	55	51	60	110	1.3
590.0210.383	PSC50-EMU32-90	50	32	90	72	60	70	120	2.3
590.0201.384	PSC63-EMU6-75	63	6	75	40	40	53	113	1.3
590.0202.384	PSC63-EMU8-75	63	8	75	44	40	53	113	1.4
590.0203.384	PSC63-EMU10-75	63	10	75	44	45	53	113	1.3
590.0204.384	PSC63-EMU12-75	63	12	75	44	45	53	113	1.3
590.0206.384	PSC63-EMU16-75	63	16	75	44	45	53	113	1.3
590.0208.384	PSC63-EMU20-75	63	20	75	50	51	53	113	1.4
590.0209.384	PSC63-EMU25-75	63	25	75	55	51	53	113	1.5
590.0210.384	PSC63-EMU32-75	63	32	75	72	60	53	113	2.1
590.0211.384	PSC63-EMU40-105	63	40	105	70	90	83	143	2.4

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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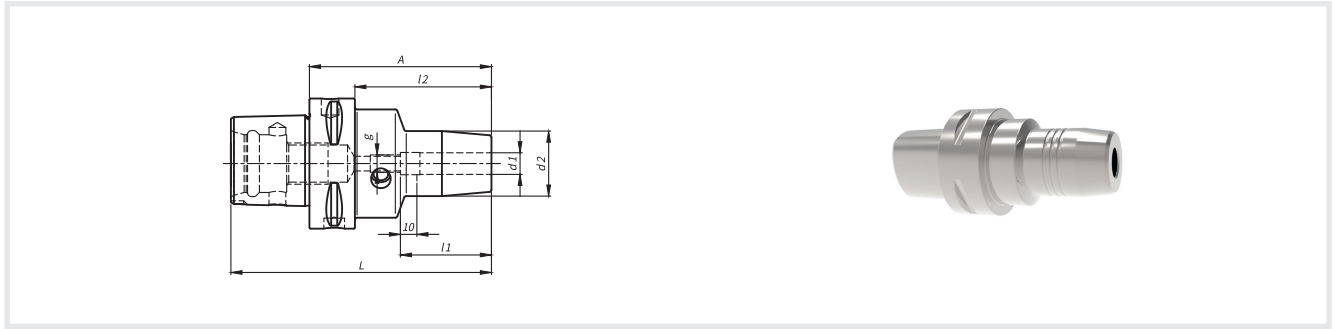


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液压夹头刀柄

Hydraulic Expansion Chunks



No.	Model	Size	d1	A	d2	l1	l2	g	L	kg
702.0001.382	PSC40-HD6-80	40	6	80	26	37	60	M5	104	0.7
702.0002.382	PSC40-HD8-80	40	8	80	28	37	60	M6	104	0.7
702.0003.382	PSC40-HD10-85	40	10	85	30	41	65	M8X1	109	0.8
702.0004.382	PSC40-HD12-85	40	12	85	32	46	65	M8X1	109	0.8
702.0001.383	PSC50-HD6-65	50	6	65	26	37	45	M5	95	0.7
702.0002.383	PSC50-HD8-65	50	8	65	28	37	45	M6	95	0.8
702.0003.383	PSC50-HD10-75	50	10	75	30	41	55	M8X1	105	0.8
702.0004.383	PSC50-HD12-80	50	12	80	32	46	60	M10X1	110	0.9
702.0005.383	PSC50-HD14-80	50	14	80	34	46	60	M10X1	110	0.9
702.0006.383	PSC50-HD16-85	50	16	85	38	49	65	M12X1	115	1.0
702.0007.383	PSC50-HD18-85	50	18	85	40	49	65	M12X1	115	1.1
702.0008.383	PSC50-HD20-85	50	20	85	42	51	65	M16X1	115	1.1
702.0001.384	PSC63-HD6-65	63	6	65	26	37	43	M5	103	1.1
702.0002.384	PSC63-HD8-65	63	8	65	28	37	43	M6	103	1.1
702.0003.384	PSC63-HD10-75	63	10	75	30	41	53	M8X1	113	1.2
702.0004.384	PSC63-HD12-80	63	12	80	32	46	58	M10X1	118	1.2
702.0005.384	PSC63-HD14-80	63	14	80	34	46	58	M10X1	118	1.2
702.0006.384	PSC63-HD16-85	63	16	85	38	49	63	M12X1	123	1.3
702.0007.384	PSC63-HD18-85	63	18	85	40	49	63	M12X1	123	1.4
702.0008.384	PSC63-HD20-85	63	20	85	42	51	63	M16X1	123	1.4
702.0009.384	PSC63-HD25-95	63	25	95	50	57	73	M16X1	133	1.8
702.0010.384	PSC63-HD32-100	63	32	100	56	61	78	M16X1	138	2.1

用途:用于DIN1835 A、B型和DIN6535 HA、HB型,其中DIN6535 HE型仅适用于带衬套的刀具。

设计:夹持精度为h6,粗糙度最小为Ra0.3,对于 $\phi 25$ 和 $\phi 32$ 尺寸只有A、HA型可用。

注意:

- 1.其他设计和尺寸也可根据要求提供。
- 2.工具架夹紧长度必须与尺寸L1-V相同,否则可能会出现夹紧力减少、工具从支架上脱落、工具无法拆卸或工具架损坏等问题。

Use: For shank tools according to DIN 1835 type A and B and DIN 6535 type HA and HB.

Shanks according to DIN 6535 type HE can only be used together with reduction bushes.

Design: Shank quality h6, Ra min. = 0.3. For $\phi 25$ and $\phi 32$ only type A or HA can be used.

Note:

1. Other designs and sizes are available on request.
2. Toolholder clamping length must be same to size L1-V. if not, problem may happen such as clamping force maybe reduced, tools fall off the holder, tool couldn't be dismantled or toolholder damage and so on.

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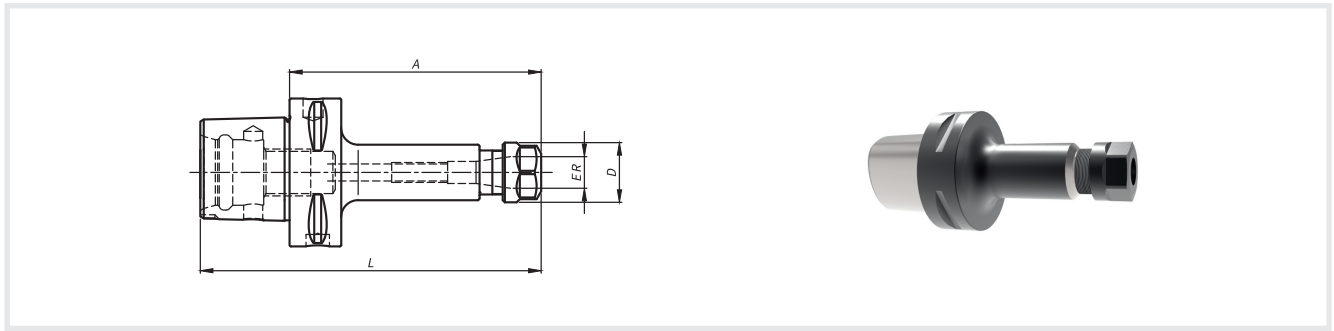
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ER/ESXER-11/16弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 11/16 with internal thread



No.	Model	Size	ER	A	D	L	kg
698.0001.381	PSC32-ER16-45	32	ER16(0.5-10)	45	28	64	0.2
698.0001.382	PSC40-ER16-55	40	ER16(0.5-10)	55	28	79	0.4
698.0001.383	PSC50-ER16-60	50	ER16(0.5-10)	60	28	90	0.6
698.0031.383	PSC50-ER16-100	50	ER16(0.5-10)	100	28	130	0.8
698.0001.384	PSC63-ER16-60	63	ER16(0.5-10)	60	28	98	0.9
698.0031.384	PSC63-ER16-100	63	ER16(0.5-10)	100	28	138	1.1
698.0001.385	PSC80-ER16-60	80	ER16(0.5-10)	60	28	108	1.8
698.0031.385	PSC80-ER16-100	80	ER16(0.5-10)	100	28	148	2.0

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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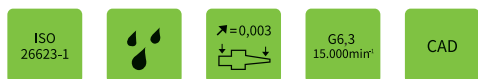
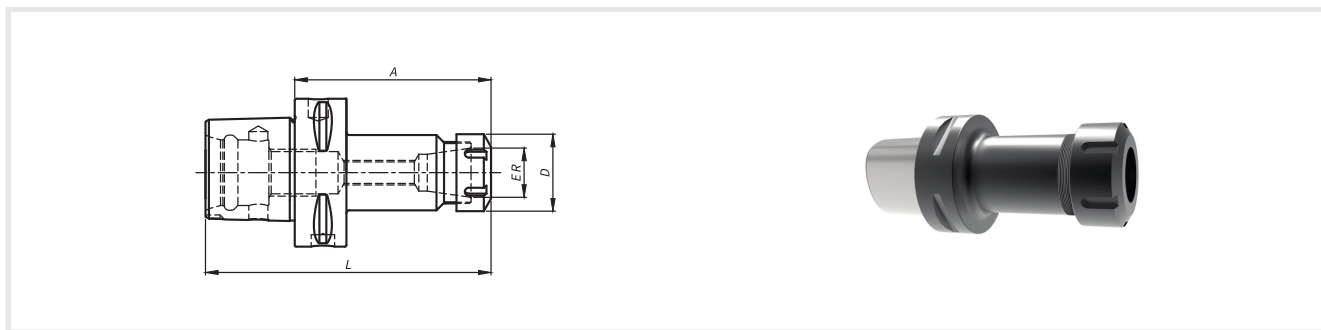
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ER/ESXER-20/25/32/40弹簧夹头刀柄(带调整螺钉孔)

Collet Chucks ER/ESX 20/25/32/40 with internal thread



No.	Model	Size	ER	A	D	L	kg
697.0001.381	PSC32-ER20-45	32	ER20(1-13)	45	34	64	0.3
697.0001.382	PSC40-ER20-55	40	ER20(1-13)	55	34	79	0.5
697.0002.382	PSC40-ER25-55	40	ER25(1-16)	55	42	79	0.6
697.0003.382	PSC40-ER32-55	40	ER32(2-20)	55	50	79	0.7
640.0168.041	PSC50-ER20-60	50	ER20(1-13)	60	34	90	0.7
640.0169.041	PSC50-ER20-100	50	ER20(1-13)	100	34	130	0.9
640.0170.041	PSC50-ER25-60	50	ER25(1-16)	60	42	90	0.8
640.0171.041	PSC50-ER25-100	50	ER25(1-16)	100	42	130	1.2
697.0003.383	PSC50-ER32-60	50	ER32(2-20)	60	50	90	1.0
640.0173.041	PSC50-ER32-100	50	ER32(2-20)	100	50	130	1.5
697.0004.383	PSC50-ER40-65	50	ER40(3-26)	65	63	95	1.4
640.0175.041	PSC50-ER40-100	50	ER40(3-26)	100	63	130	2.2
640.0176.041	PSC63-ER20-60	63	ER20(1-13)	60	34	98	1.0
640.0177.041	PSC63-ER20-100	63	ER20(1-13)	100	34	138	1.2
697.0002.384	PSC63-ER25-60	63	ER25(1-16)	60	42	98	1.1
640.0179.041	PSC63-ER25-100	63	ER25(1-16)	100	42	138	1.5
697.0003.384	PSC63-ER32-60	63	ER32(2-20)	60	50	98	1.3
640.0181.041	PSC63-ER32-100	63	ER32(2-20)	100	50	138	1.8
697.0004.384	PSC63-ER40-65	63	ER40(3-26)	65	63	103	1.7
640.0183.041	PSC63-ER40-100	63	ER40(3-26)	100	63	138	2.5
640.0184.041	PSC80-ER20-65	80	ER20(1-13)	65	34	113	1.9
640.0185.041	PSC80-ER20-100	80	ER20(1-13)	100	34	148	2.2
697.0002.385	PSC80-ER25-70	80	ER25(1-16)	70	42	118	2.1
640.0187.041	PSC80-ER25-100	80	ER25(1-16)	100	42	148	2.4
697.0003.385	PSC80-ER32-70	80	ER32(2-20)	70	50	118	2.3
640.0189.041	PSC80-ER32-100	80	ER32(2-20)	100	50	148	2.7
697.0004.385	PSC80-ER40-80	80	ER40(3-26)	80	63	128	2.8
640.0191.041	PSC80-ER40-100	80	ER40(3-26)	100	63	148	3.3

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:夹头配有内螺纹调整螺钉。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, Band E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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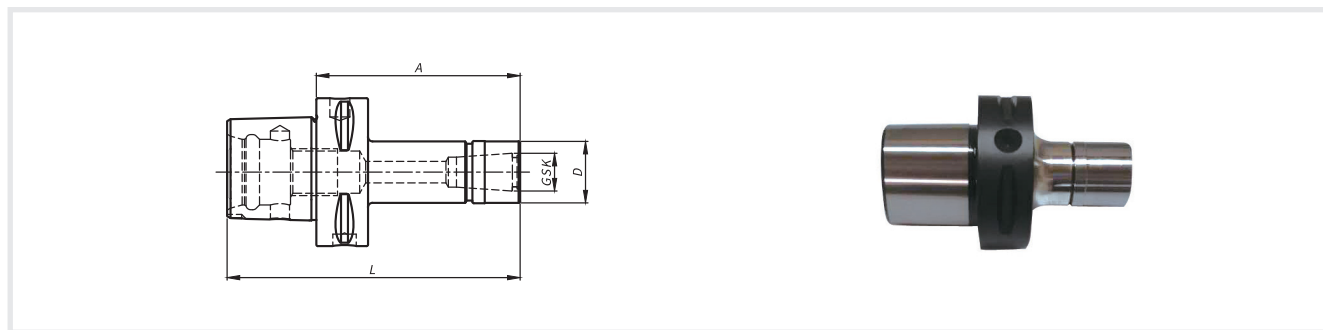
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GSK高精度弹簧夹头刀柄

Collet Chucks GSK6/10/13/16/20/25



No.	Model	Size	GSK	A	D	L	Kg
440.0076.042	PSC32-GSK10-70	32	GSK10 (2-10)	70	27.5	89	0.3
440.0077.042	PSC40-GSK10-70	40	GSK10 (2-10)	70	27.5	94	0.5
440.0194.042	PSC40-GSK13-70	40	GSK13 (3-13)	70	35	94	0.6
440.0078.042	PSC40-GSK16-80	40	GSK16 (3-16)	80	40	104	0.8
440.0079.042	PSC40-GSK20-80	40	GSK20 (4-20)	80	48	104	1.0
440.0080.042	PSC50-GSK10-70	50	GSK10 (2-10)	70	27.5	100	0.6
440.0081.042	PSC50-GSK10-100	50	GSK10 (2-10)	100	27.5	130	0.7
440.0195.042	PSC50-GSK13-70	50	GSK13 (3-13)	70	35	100	0.8
440.0196.042	PSC50-GSK13-100	50	GSK13 (3-13)	100	35	130	1.0
440.0082.042	PSC50-GSK16-80	50	GSK16 (3-16)	80	40	110	0.9
440.0083.042	PSC50-GSK16-100	50	GSK16 (3-16)	100	40	130	1.1
440.0084.042	PSC50-GSK20-80	50	GSK20 (4-20)	80	48	110	1.2
440.0085.042	PSC50-GSK20-100	50	GSK20 (4-20)	100	48	130	1.4
440.0086.042	PSC50-GSK25-80	50	GSK25 (3-25)	80	55	110	1.4
440.0087.042	PSC50-GSK25-100	50	GSK25 (3-25)	100	55	130	1.8
440.0088.042	PSC63-GSK10-70	63	GSK10 (2-10)	70	27.5	108	0.9
440.0089.042	PSC63-GSK10-100	63	GSK10 (2-10)	100	27.5	138	1.1
440.0197.042	PSC63-GSK13-70	63	GSK13 (3-13)	70	35	108	1.1
440.0198.042	PSC63-GSK13-100	63	GSK13 (3-13)	100	35	138	1.3
440.0090.042	PSC63-GSK16-80	63	GSK16 (3-16)	80	40	118	1.3
440.0091.042	PSC63-GSK16-100	63	GSK16 (3-16)	100	40	138	1.4
440.0092.042	PSC63-GSK20-80	63	GSK20 (4-20)	80	48	118	1.5
440.0093.042	PSC63-GSK20-100	63	GSK20 (4-20)	100	48	138	1.7
440.0094.042	PSC63-GSK25-80	63	GSK25 (3-25)	80	55	118	1.7
440.0095.042	PSC63-GSK25-100	63	GSK25 (3-25)	100	55	138	2.1

No.	Model	Size	GSK	A	D	L	Kg
440.0096.042	PSC80-GSK10-70	80	GSK10 (2-10)	70	27.5	118	1.9
440.0097.042	PSC80-GSK10-100	80	GSK10 (2-10)	100	27.5	148	2.0
440.0199.042	PSC80-GSK13-70	80	GSK13 (3-13)	70	35	118	2.0
440.0200.042	PSC80-GSK13-100	80	GSK13 (3-13)	100	35	148	2.2
440.0098.042	PSC80-GSK16-80	80	GSK16 (3-16)	80	40	128	2.2
440.0099.042	PSC80-GSK16-100	80	GSK16 (3-16)	100	40	148	2.3
440.0100.042	PSC80-GSK20-100	80	GSK20 (4-20)	100	48	148	2.6
440.0101.042	PSC80-GSK20-100	80	GSK20 (4-20)	100	48	148	2.6
440.0102.042	PSC80-GSK25-80	80	GSK25 (3-25)	80	55	128	2.5
440.0103.042	PSC80-GSK25-100	80	GSK25 (3-25)	100	55	148	2.9

使用:用于符合DIN 1835 A、B、E型或DIN 6535 HA、HB、HE型的直柄夹紧工具。

出厂标准产品包括:夹紧螺母。

注意:括号中数字仅表示夹持刀具柄部尺寸范围,不体现在产品型号中。其他的设计和尺寸也可根据要求提供。

Use: For clamping tools with straight shank according to DIN 1835 type A, B and E and DIN 6535 type HA, HB and HE.

Standard Specification: Collet chuck including clamping nut.

Note: Collet chucks are equipped with internal thread for adjusting screws. Other designs and sizes are available on request.

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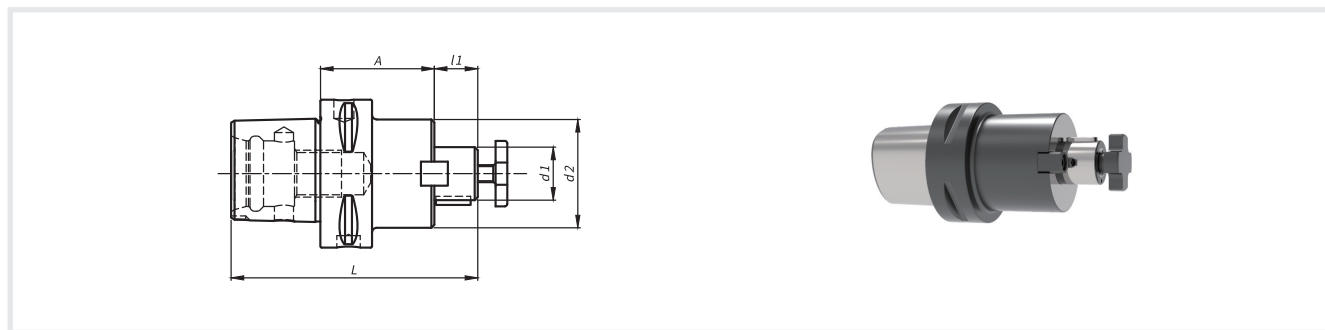
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套式铣刀柄 (带平键和端面键)

Shell End Mill Arbors



No.	Model	Size	d1	A	d2	l3	L	kg
489.0001.382	PSC40-SEMC16-28	40	16	28	40	17	69	0.36
489.0031.382	PSC40-SEMC16-63	40	16	63	40	17	104	0.70
489.0002.382	PSC40-SEMC22-40	40	22	40	50	19	83	0.62
489.0032.382	PSC40-SEMC22-63	40	22	63	50	19	106	0.97
489.0001.383	PSC50-SEMC16-28	50	16	28	40	17	75	0.52
489.0031.383	PSC50-SEMC16-63	50	16	63	40	17	110	0.86
489.0002.383	PSC50-SEMC22-28	50	22	28	50	19	77	0.59
489.0032.383	PSC50-SEMC22-63	50	22	63	50	19	112	1.13
489.0003.383	PSC50-SEMC27-32	50	27	32	50	21	83	0.69
489.0033.383	PSC50-SEMC27-63	50	27	63	50	21	114	1.17
489.0004.383	PSC50-SEMC32-40	50	32	40	63	24	94	1.05
489.0034.383	PSC50-SEMC32-63	50	32	63	63	24	117	1.61
489.0031.384	PSC63-SEMC16-63	63	16	63	40	17	118	1.17
489.0002.384	PSC63-SEMC22-28	63	22	28	63	19	85	0.94
489.0032.384	PSC63-SEMC22-63	63	22	63	50	19	120	1.43
489.0003.384	PSC63-SEMC27-28	63	27	28	58	21	87	0.96
489.0033.384	PSC63-SEMC27-63	63	27	63	58	21	122	1.69
489.0004.384	PSC63-SEMC32-22	63	32	22	63	24	84	0.89
489.0034.384	PSC63-SEMC32-86	63	32	86	63	24	148	2.46
489.0005.384	PSC63-SEMC40-40	63	40	40	70	27	105	1.55
489.0031.385	PSC80-SEMC16-63	80	16	63	40	17	128	2.06
489.0002.385	PSC80-SEMC22-30	80	22	30	50	19	97	1.77
489.0032.385	PSC80-SEMC22-63	80	22	63	50	19	130	2.28
489.0003.385	PSC80-SEMC27-30	80	27	30	58	21	99	1.80
489.0033.385	PSC80-SEMC27-63	80	27	63	58	21	132	2.49
489.0004.385	PSC80-SEMC32-30	80	32	30	63	24	102	1.86
489.0034.385	PSC80-SEMC32-86	80	32	86	62	24	158	3.19
489.0005.385	PSC80-SEMC40-40	80	40	40	70	27	115	2.28

规格型号:用于夹持轴向平键或端面键驱动的面铣刀。

Use: For clamping shell end mills and milling cutters with longitudinal slot or tenon drive.

设计:带有中心冷却功能,传动环符合DIN 138。

Design: Central boring for coolant supply. Cutter drive according to DIN 138.

出厂标准产品包括紧固螺钉、带有螺孔的平键和传动环等。

Standard Specification: Cutter retaining screw, feather key with withdrawal thread and drive ring included.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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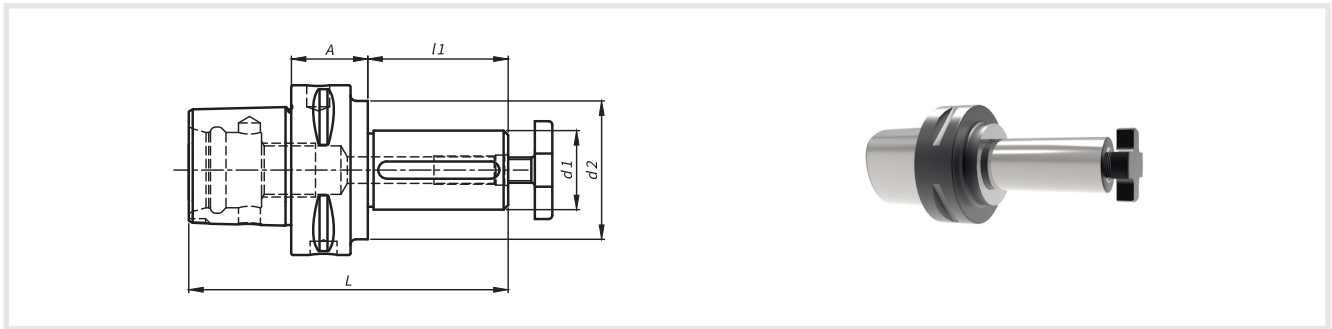
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端铣刀柄(带平键)

Shell End Mill Arbors with enlarged contact diameter



No.	Model	Size	d1	A	d2	l1	L	kg
422.0001.381	PSC32-EMK16-20	32	16	20	28	30	69	0.2
422.0001.382	PSC40-EMK16-25	40	16	25	28	30	79	0.3
422.0002.382	PSC40-EMK22-25	40	22	25	36	40	89	0.4
422.0003.382	PSC40-EMK27-25	40	27	25	40	60	109	0.6
422.0001.383	PSC50-EMK16-25	50	16	25	28	30	85	0.5
422.0002.383	PSC50-EMK22-25	50	22	25	36	40	95	0.6
422.0003.383	PSC50-EMK27-25	50	27	25	43	60	115	0.7
422.0004.383	PSC50-EMK32-25	50	32	25	50	60	115	0.9
422.0001.384	PSC63-EMK16-30	63	16	30	28	30	98	0.8
422.0002.384	PSC63-EMK22-30	63	22	30	36	40	108	0.9
422.0003.384	PSC63-EMK27-30	63	27	30	43	60	128	1.1
422.0004.384	PSC63-EMK32-25	63	32	25	48	60	123	1.2
422.0005.384	PSC63-EMK40-25	63	40	25	56	60	123	1.4
422.0001.385	PSC80-EMK16-40	80	16	40	28	30	118	1.8
422.0002.385	PSC80-EMK22-40	80	22	40	36	40	128	1.9
422.0003.385	PSC80-EMK27-30	80	27	30	43	60	138	2.0
422.0004.385	PSC80-EMK32-30	80	32	30	48	60	138	2.1
422.0005.385	PSC80-EMK40-30	80	40	30	56	60	138	2.3
422.0006.385	PSC80-EMK50-30	80	50	30	70	60	138	2.6
422.0007.385	PSC80-EMK60-30	80	60	30	60	60	138	3.0

用途:用于夹持带轴向平键的面铣刀。

Use:For clamping shell end mills and milling cutters with longitudinal slot.

设计:传动环符合DIN 138。

Design:Cutter drive according to DIN 138.

出厂标准产品包括:紧固螺钉、带有螺孔的平键。

Standard Specification:Cutter retaining screw and feather key included.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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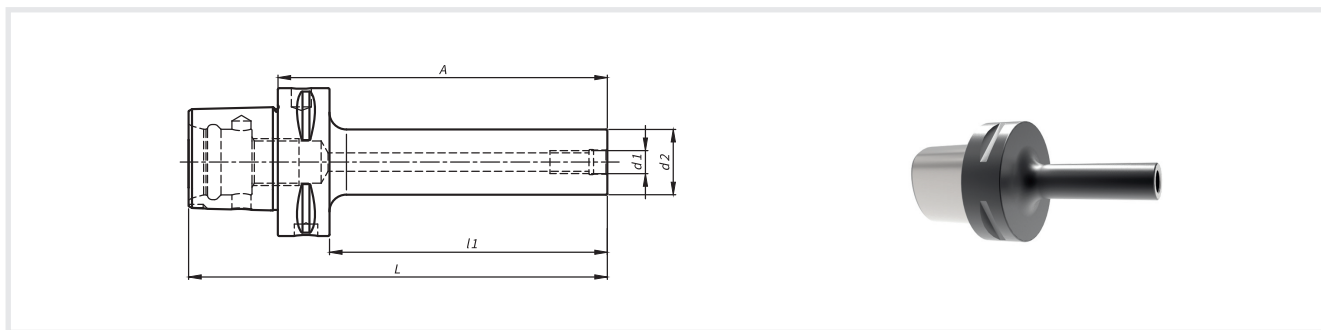
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KFS模块式铣刀柄

Holders for screw-in milling cutters



No.	Model	Size	d1	A	d2	l1	L	kg
571.0001.381	PSC32-KFS8-60	32	M8	60	12.8	45	79.0	0.2
571.0002.381	PSC32-KFS10-70	32	M10	70	17.8	55	89.0	0.2
571.0001.382	PSC40-KFS8-70	40	M8	70	12.8	50	94.0	0.3
571.0002.382	PSC40-KFS10-80	40	M10	80	17.8	60	104.0	0.4
571.0003.382	PSC40-KFS12-80	40	M12	80	20.8	60	104.0	0.4
571.0001.383	PSC50-KFS8-70	50	M8	70	12.8	50	100.0	0.5
571.0002.383	PSC50-KFS10-80	50	M10	80	17.8	60	110.0	0.5
571.0003.383	PSC50-KFS12-80	50	M12	80	20.8	60	110.0	0.6
571.0004.383	PSC50-KFS16-80	50	M16	80	28.8	60	110.0	0.7
571.0001.384	PSC63-KFS8-70	63	M8	70	12.8	48	108.0	0.8
571.0002.384	PSC63-KFS10-90	63	M10	90	17.8	68	128.0	0.9
571.0003.384	PSC63-KFS12-100	63	M12	100	20.8	78	138.0	0.9
571.0004.384	PSC63-KFS16-100	63	M16	100	28.8	78	138.0	1.1

使用方向:用于夹紧以螺纹连接的铣刀。

Use: For holding the milling tools with thread.

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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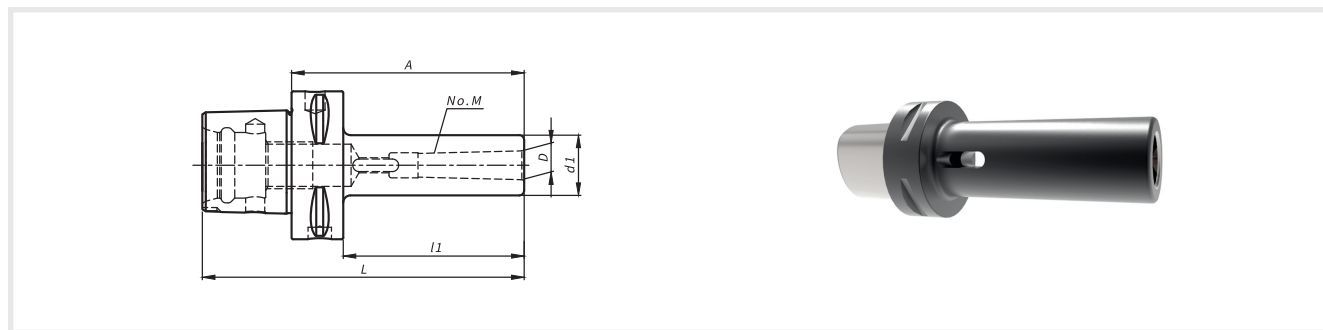


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带扁尾莫氏圆锥孔刀柄

Reduction Sleeves for morse taper with tang



No.	Model	Size	M	D	A	d1	l1	L	kg
454.0002.382	PSC40-M2-110	40	2	17.78	110	32	90.0	134	0.8
454.0003.382	PSC40-M3-130	40	3	23.825	130	40	110.0	154	1.2
454.0002.383	PSC50-M2-110	50	2	17.78	110	32	90.0	140	0.9
454.0003.383	PSC50-M3-130	50	3	23.825	130	40	110.0	160	1.4
454.0004.383	PSC50-M4-150	50	4	31.267	150	48	130.0	180	2.1
454.0002.384	PSC63-M2-110	63	2	17.78	110	32	88.0	148	1.2
454.0003.384	PSC63-M3-130	63	3	23.825	130	40	108.0	168	1.7
454.0004.384	PSC63-M4-150	63	4	31.267	150	48	128.0	188	2.4
454.0002.385	PSC80-M2-120	80	2	17.78	120	32	90.0	168	2.2
454.0003.385	PSC80-M3-140	80	3	23.825	140	40	110.0	188	2.7
454.0004.385	PSC80-M4-160	80	4	31.267	160	48	130.0	208	3.4

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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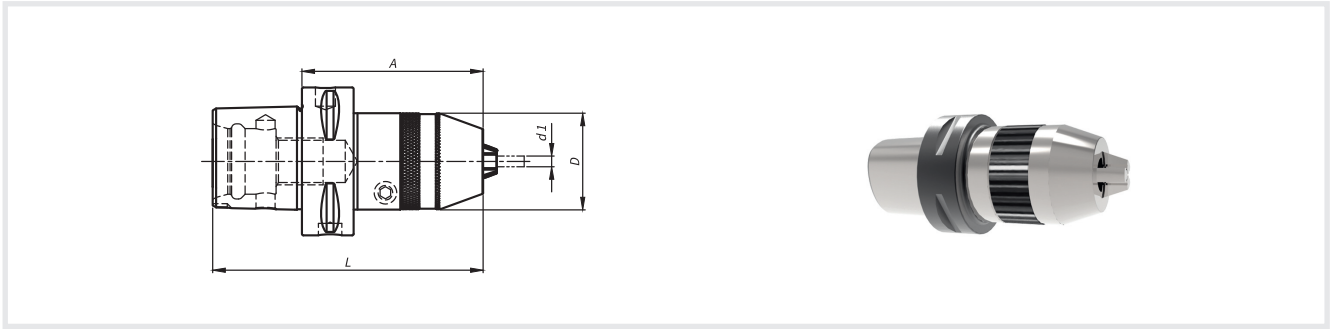
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整体式钻夹头刀柄

Integrated Drill Chuck Arbors whole



ISO
26623-1

No.	Model	Size	d1	A	D	L	kg
490.0010.383	PSC50-KPU(1-16)-85	50	1-16	85	50	115	1.1
490.0010.384	PSC63-KPU(1-16)-85	63	1-16	85	50	123	1.8
490.0010.385	PSC80-KPU(1-16)-95	80	1-16	95	50	143	2.5

注意:其他型号和尺寸可按订货要求制作。

Note: Other designs and sizes are available on request.

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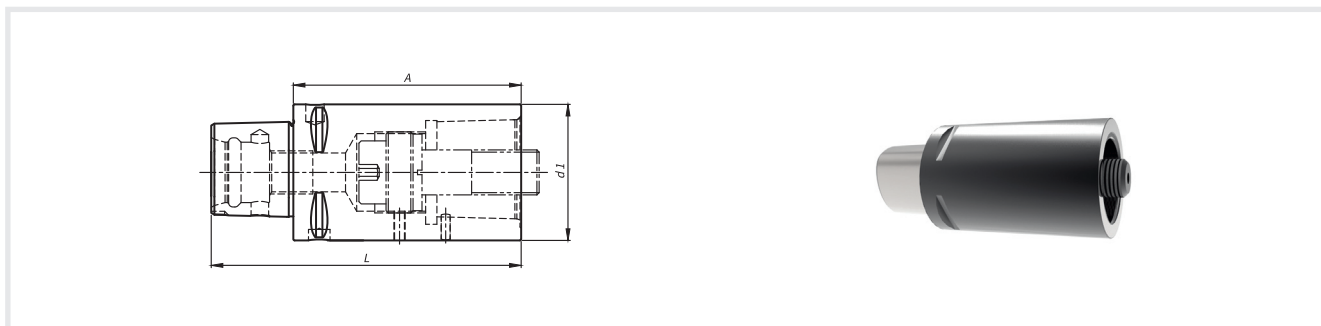
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等径接长杆

Extensions Axial Clamping

ISO
26623-1

CAD

No.	Model	Size	d1	A	L	kg
706.0001.383	PSC50-PSC50-80	50	50	80	110	1.0
706.0002.383	PSC50-PSC50-100	50	50	100	130	1.3
706.0001.384	PSC63-PSC63-100	63	63	100	138	2.0
706.0002.384	PSC63-PSC63-140	63	63	140	178	2.9

使用方向:用于夹持符合ISO 26623-1标准的PSC柄工具, d1 =PSC柄标称尺寸。

出厂标准产品包括:夹紧螺钉。

注意:其他型号和尺寸可按订货要求制作。

Use:For holding PSK tools according to ISO 26623-1, d1 = nominal size PSK.

Standard Specification:Includes clamping screw.

Note:Other designs and sizes are available on request.

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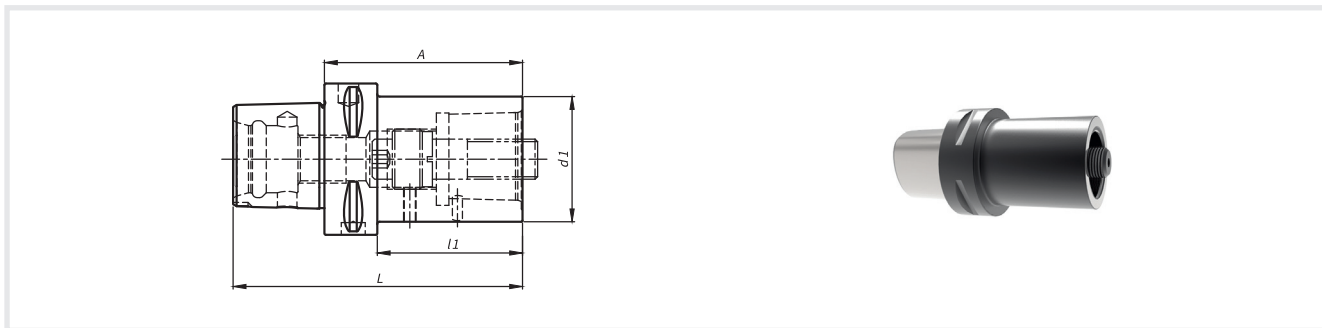
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变径接长杆

Chunk Extensions



No.	Model	Size	d1	A	L	kg
707.0003.384	PSC63-PSC50-80	63	50	80	118	1.4

使用方向:用于夹持符合ISO 26623-1标准的PSC柄工具, d1 =PSC柄标称尺寸。

Use:For holding PSK tools according to ISO 26623-1, d1 = nominal size PSK.

出厂标准产品包括:夹紧螺钉。

Standard Specification:Includes clamping screw.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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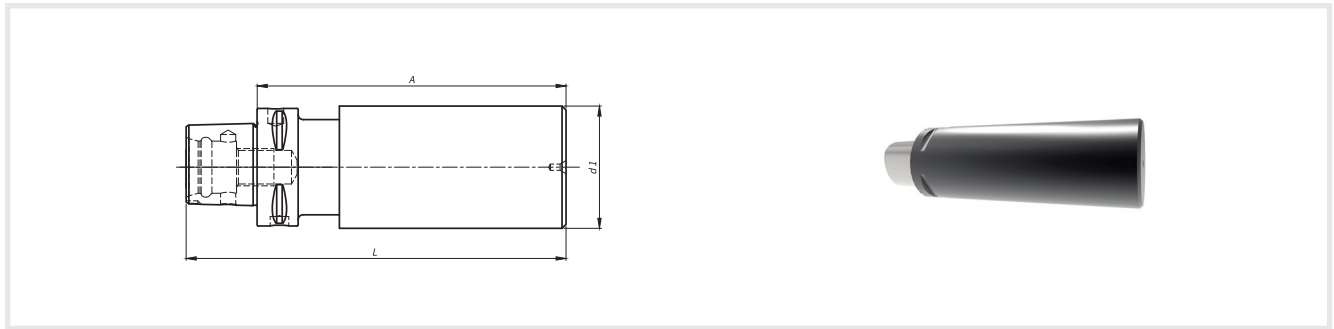


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毛坯刀柄(合金钢)

Tool Blanks with Alloy Steel

ISO
26623-1

No.	Model	Size	d1	A	L	kg
517.6010.382	PSC40-BL40-95	40	40	95	119	1.0
517.6011.382	PSC40-BL40-120	40	40	120	144	1.2
517.6012.382	PSC40-BL60-165	40	60	165	189	3.5
517.6013.382	PSC40-BL80-75	40	80	75	99	2.4
517.6014.382	PSC40-BL80-120	40	80	120	144	4.2
517.6015.382	PSC40-BL100-85	40	100	85	109	4.3
517.6010.383	PSC50-BL50-125	50	50	125	155	2.0
517.6011.383	PSC50-BL50-150	50	50	150	180	2.4
517.6012.383	PSC50-BL75-175	50	75	175	205	5.8
517.6013.383	PSC50-BL90-80	50	90	80	110	3.4
517.6014.383	PSC50-BL95-150	50	95	150	180	7.6
517.6015.383	PSC50-BL110-90	50	110	90	120	5.6
517.6010.384	PSC63-BL63-180	63	63	180	218	4.6
517.6011.384	PSC63-BL75-195	63	75	195	233	6.7
517.6012.384	PSC63-BL110-85	63	110	85	123	5.4
517.6013.384	PSC63-BL120-180	63	120	180	218	14.8
517.6014.384	PSC63-BL130-95	63	130	95	133	8.4
517.6010.385	PSC80-BL80-200	80	80	200	248	8.4
517.6011.385	PSC80-BL120-160	80	120	160	208	13.3
517.6012.385	PSC80-BL130-90	80	130	90	138	8.0
517.6013.385	PSC80-BL145-200	80	145	200	248	23.8

使用方向:用于制造特殊刀具刀体及工具系统产品。

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2),淬硬层在0.5mm以上;刀具端硬度HRC38-43。

材料:合金钢

注意:其他型号和尺寸可按订货要求制作

Use: For own manufacture of special tools.

Design:The taper ls finished with grinding,the dimensions are in accordance with the standard of the handle,HV670±40 (approximately HRC58±2),the hardened layer is above 0.5mm. Tool part is HRC36-44.

Material: Alloy steel.

Note:Other designs and sizes are available on request.

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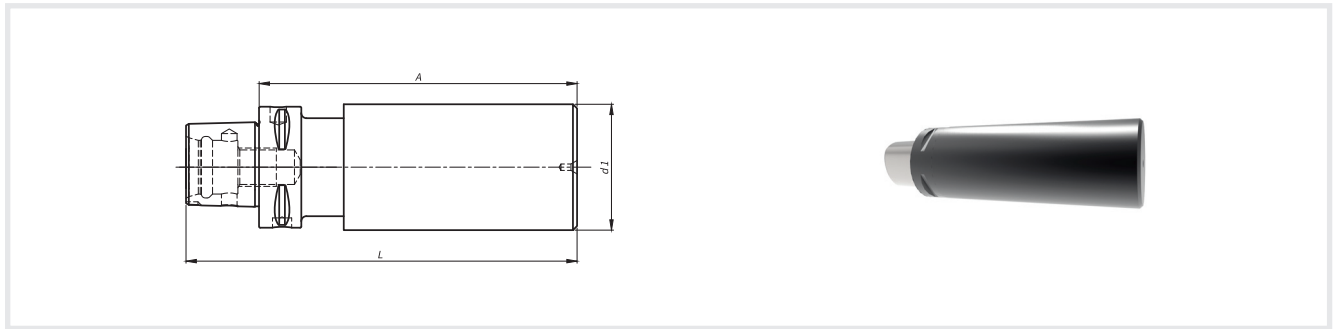
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毛坯刀柄(渗碳钢)

Tool Blanks with Alloy Case-hardened Steel

ISO
26623-1

No.	Model	Size	d1	A	L	kg
517.0010.382	PSC40-BLH40-95	40	40	95	119	1.0
517.0011.382	PSC40-BLH40-120	40	40	120	144	1.2
517.0012.382	PSC40-BLH60-165	40	60	165	189	3.5
517.0013.382	PSC40-BLH80-75	40	80	75	99	2.4
517.0014.382	PSC40-BLH80-120	40	80	120	144	4.2
517.0015.382	PSC40-BLH100-85	40	100	85	109	4.3
517.0010.383	PSC50-BLH50-125	50	50	125	155	2.0
517.0011.383	PSC50-BLH50-150	50	50	150	180	2.4
517.0012.383	PSC50-BLH75-175	50	75	175	205	5.8
517.0013.383	PSC50-BLH90-80	50	90	80	110	3.4
517.0014.383	PSC50-BLH95-150	50	95	150	180	7.6
517.0015.383	PSC50-BLH110-90	50	110	90	120	5.6
517.0010.384	PSC63-BLH63-180	63	63	180	218	4.6
517.0011.384	PSC63-BLH75-195	63	75	195	233	6.7
517.0012.384	PSC63-BLH110-85	63	110	85	123	5.4
517.0013.384	PSC63-BLH120-180	63	120	180	218	14.8
517.0014.384	PSC63-BLH130-95	63	130	95	133	8.4
517.0010.385	PSC80-BLH80-200	80	80	200	248	8.4
517.0011.385	PSC80-BLH120-160	80	120	160	208	13.3
517.0012.385	PSC80-BLH130-90	80	130	90	138	8.0
517.0013.385	PSC80-BLH145-200	80	145	200	248	23.8

使用方向:用于制造工具系统产品。

设计:锥柄为磨制成品,尺寸符合柄部标准,维氏硬度HV670±40(近似于HRC58±2)。刀具端表面抛光,未做淬硬处理,为原材料本身硬度。

材料:渗碳钢

注意:其他型号和尺寸可按订货要求制作。

Use: For own manufacture of special tools.

Design:Taper including flange hardened.Vickers hardness min HV670kp/mm² (min.HRC 58).Taper ground, shank not ground prepared to be finished,unhardened.

Material:Aolly case-hardened steel.

Note: Other designs and sizes are available on request.

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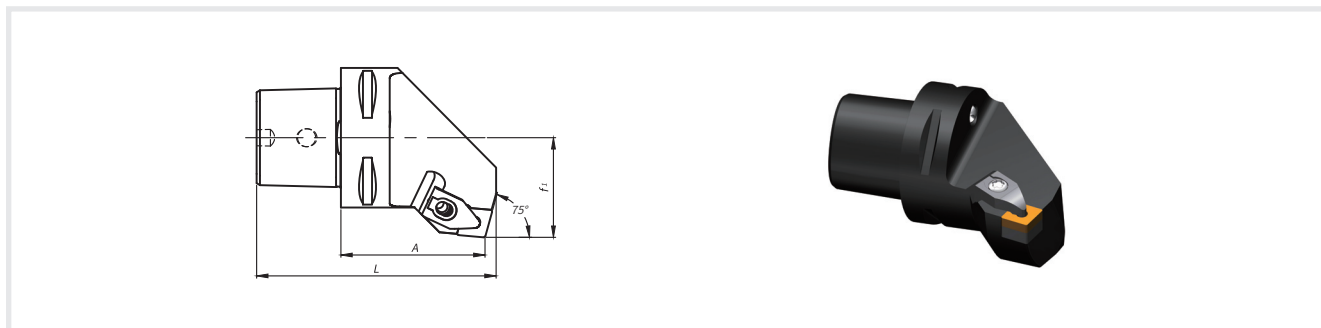
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75°刚性夹紧式外圆车刀DCKNR/L

Turning Tool Holders 75 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0017.092	PSC50-DCKNR-35060-12	50	35	60	R	93	CNMG1204..	0.8
940.0018.092	PSC50-DCKNL-35060-12	50	35	60	L	93	CNMG1204..	0.8
940.0019.092	PSC63-DCKNR-45065-12	63	45	65	R	106	CNMG1204..	1.4
940.0020.092	PSC63-DCKNL-45065-12	63	45	65	L	106	CNMG1204..	1.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

PSC 刀柄

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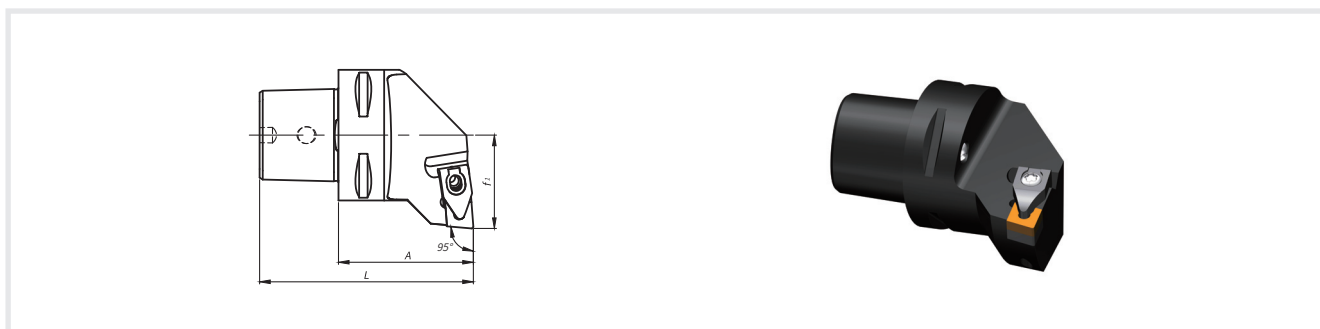
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95°刚性夹紧式外圆车刀DCLNR/L

Turning Tool Holders 95 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
581.0012.383	PSC50-DCLNR-35060-12	50	35	60	R	90	CNMG1204..	0.8
581.0112.383	PSC50-DCLNL-35060-12	50	35	60	L	90	CNMG1204..	0.8
581.0012.384	PSC63-DCLNR-45065-12	63	45	65	R	103	CNMG1204..	1.4
581.0112.384	PSC63-DCLNL-45065-12	63	45	65	L	103	CNMG1204..	1.4
940.0180.092	PSC63-DCLNR-45065-16	63	45	65	R	103	CNMG1606..	1.4
940.0181.092	PSC63-DCLNL-45065-16	63	45	65	L	103	CNMG1606..	1.4

使用:本产品柄部符合ISO26623-1。

出厂标准产品包括:夹紧装置和刀垫。

注意:其他型号和尺寸可按订货要求制作。

Use:For holding PSC tools according to ISO 26623-1.

Specification:With clamping unit and base plate. (Without indexable insert)

Note:Other designs and sizes are available on request.

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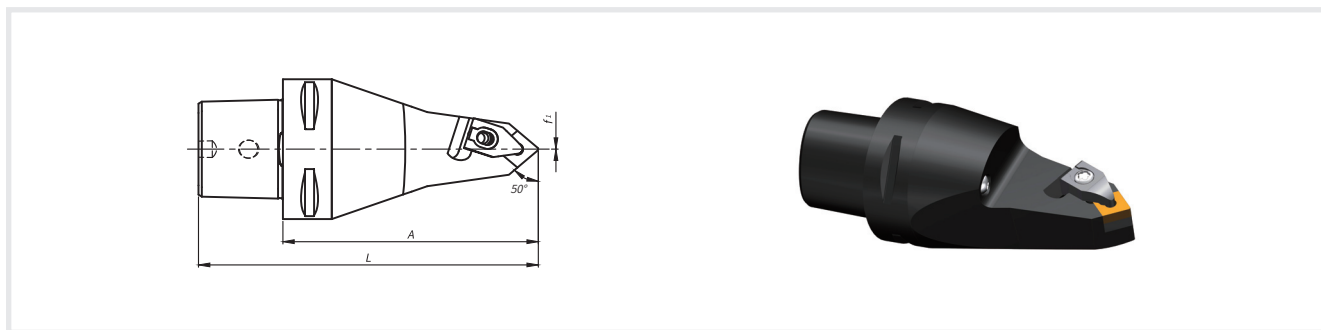
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50°刚性夹紧式外圆车刀DCMNN

Turning Tool Holders 50 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0021.092	PSC63-DCMNN-00115-12	63	0	115	N	153	CNMG1204..	0.7

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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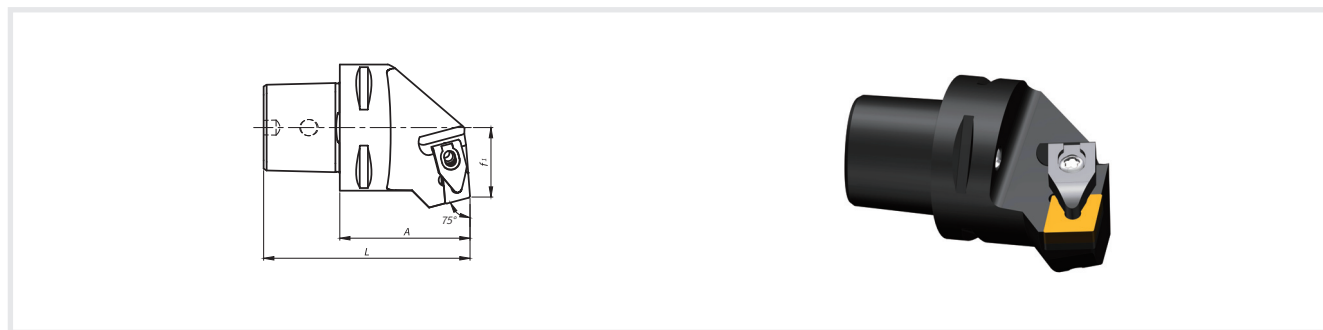
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75°刚性夹紧式外圆车刀DCRNR/L

Turning Tool Holders 75 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0011.092	PSC50-DCRNR-27060-12	50	27	60	R	90	CNMG1204..	0.6
940.0012.092	PSC50-DCRNL-27060-12	50	27	60	L	90	CNMG1204..	0.6
940.0013.092	PSC63-DCRNR-35065-12	63	35	65	R	103	CNMG1204..	1.1
940.0014.092	PSC63-DCRNL-35065-12	63	35	65	L	103	CNMG1204..	1.1
940.0224.092	PSC63-DCRNR-35065-16	63	35	65	R	103	CNMG1606..	1.1
940.0225.092	PSC63-DCRNL-35065-16	63	35	65	L	103	CNMG1606..	1.1
940.0221.092	PSC63-DCRNR-35065-19	63	35	65	R	103	CNMG1906..	1.1
940.0222.092	PSC63-DCRNL-35065-19	63	35	65	L	103	CNMG1906..	1.1

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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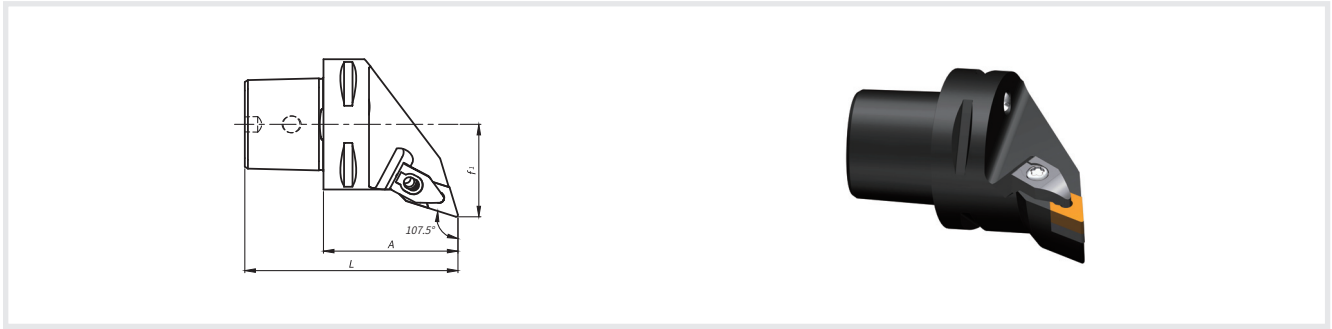
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107.5°刚性夹紧式外圆车刀DDHNR/L

Turning Tool Holders 107.5 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0024.092	PSC50-DDHNR-35060-15	50	35	60	R	90	DNMG1506..	0.8
940.0025.092	PSC50-DDHNL-35060-15	50	35	60	L	90	DNMG1506..	0.8
940.0026.092	PSC63-DDHNR-45065-15	63	45	65	R	103	DNMG1506..	1.4
940.0027.092	PSC63-DDHNL-45065-15	63	45	65	L	103	DNMG1506..	1.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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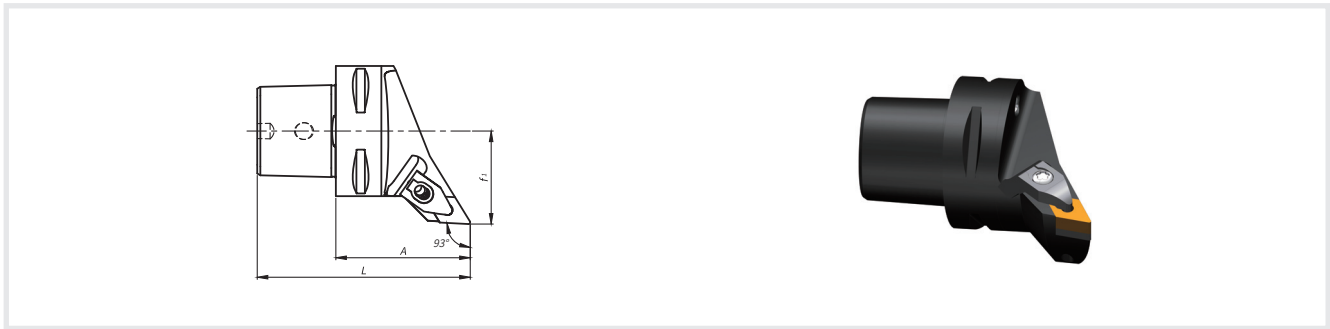
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93°刚性夹紧式外圆车刀DDJNR/L

Turning Tool Holders 93 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
581.0215.383	PSC50-DDJNR-35060-15	50	35	60	R	90	DNMG1506..	0.8
581.0315.383	PSC50-DDJNL-35060-15	50	35	60	L	90	DNMG1506..	0.8
581.0215.384	PSC63-DDJNR-45065-15	63	45	65	R	103	DNMG1506..	1.4
581.0315.384	PSC63-DDJNL-45065-15	63	45	65	L	103	DNMG1506..	1.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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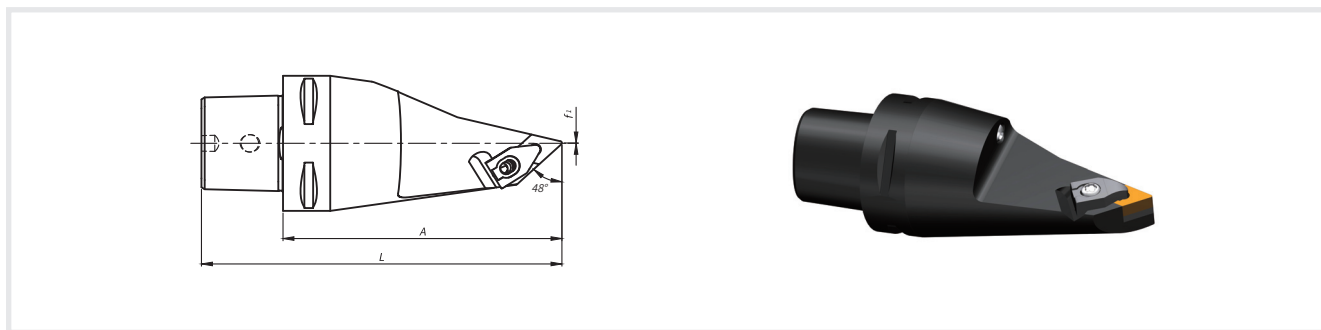
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48°刚性夹紧式外圆车刀DDMNR/L

Turning Tool Holders 50 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0050.092	PSC63-DDMNR-00130-15	63	0	130	R	168	DNMG1506..	0.7
940.0051.092	PSC63-DDMNL-00130-15	63	0	130	L	168	DNMG1506..	0.7

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

配件



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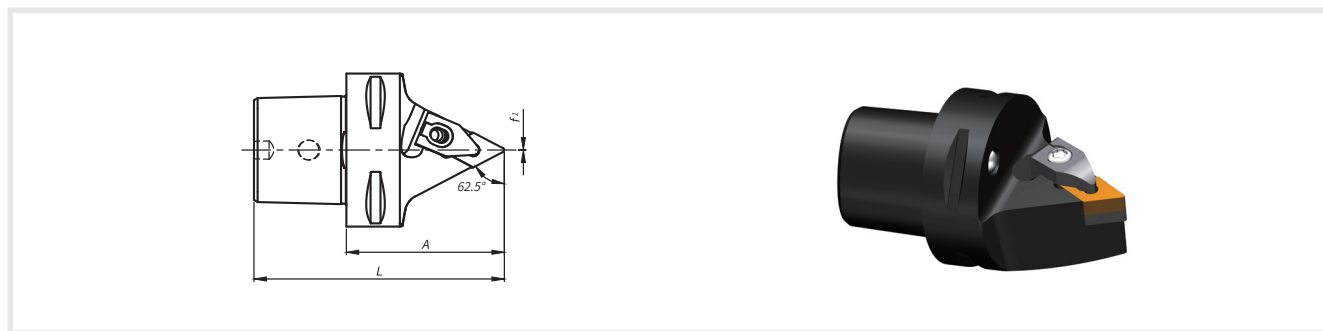


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62.5°刚性夹紧式外圆车刀DDNNN

Turning Tool Holders 62.5 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0048.092	PSC63-DDNNN-00065-15	63	0	65	N	103	DNMG1506..	0.7

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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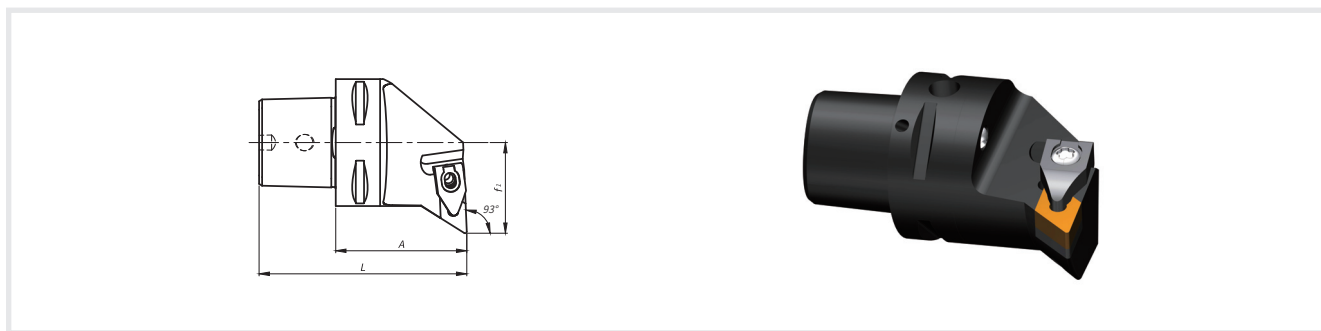


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93°刚性夹紧式外圆车刀DDUNR/L

Turning Tool Holders 93 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0040.092	PSC50-DDUNR-35060-15	50	35	60	R	90	DNMG1506..	0.8
940.0041.092	PSC50-DDUNL-35060-15	50	35	60	L	90	DNMG1506..	0.8
940.0042.092	PSC63-DDUNR-45065-15	63	45	65	R	103	DNMG1506..	1.4
940.0043.092	PSC63-DDUNL-45065-15	63	45	65	L	103	DNMG1506..	1.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

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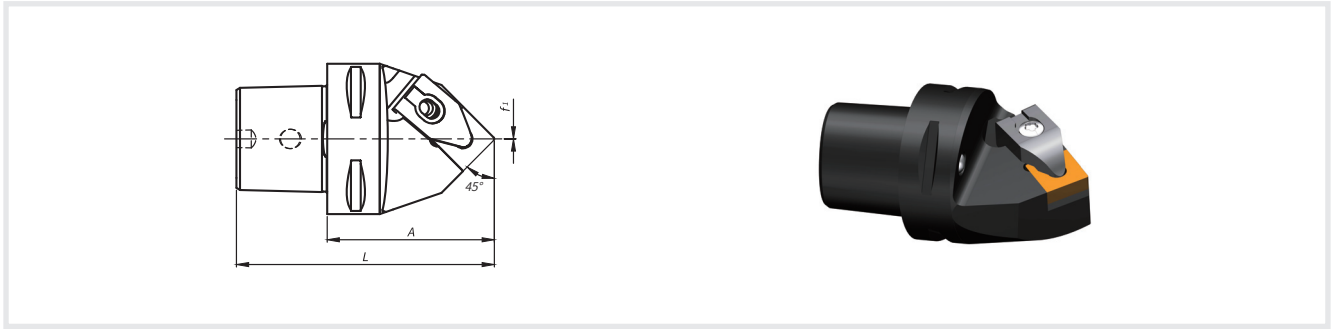
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45°刚性夹紧式外圆车刀DSDNN

Turning Tools of Lever Clamping 45 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0065.092	PSC50-DSDNN-00060-12	50	0	60	N	90	SNMG1204..	0.4
940.0066.092	PSC63-DSDNN-00065-12	63	0	65	N	103	SNMG1204..	0.7
940.0223.092	PSC63-DSDNN-00065-15	63	0	65	N	103	SNMG1506..	0.7
940.0215.092	PSC63-DSDNN-00070-19	63	0	70	N	108	SNMG1906..	0.7

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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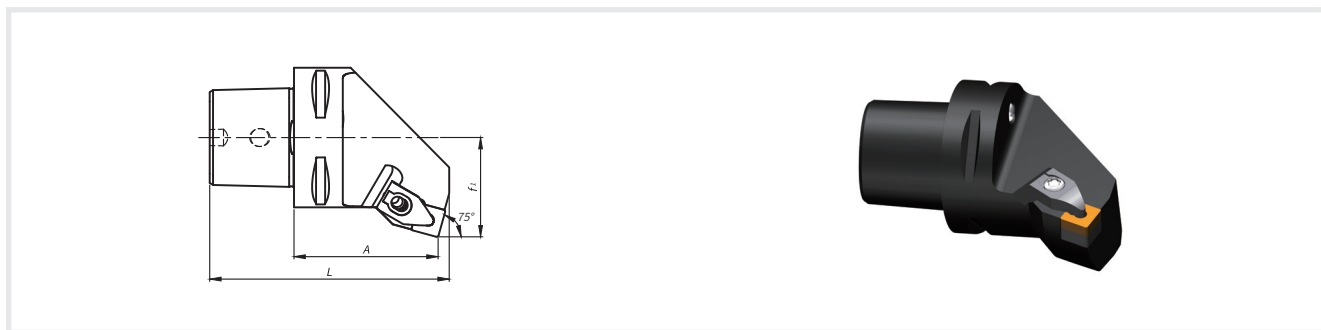


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75°刚性夹紧式外圆车刀DSKNR/L

Turning Tool Holders 75 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0060.092	PSC50-DSKNR-35060-12	50	35	60	R	93	SNMG1204..	0.8
940.0061.092	PSC50-DSKNL-35060-12	50	35	60	L	93	SNMG1204..	0.8
940.0062.092	PSC63-DSKNR-45065-12	63	45	65	R	106	SNMG1204..	1.4
940.0063.092	PSC63-DSKNL-45065-12	63	45	65	L	106	SNMG1204..	1.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

PSC 刀柄

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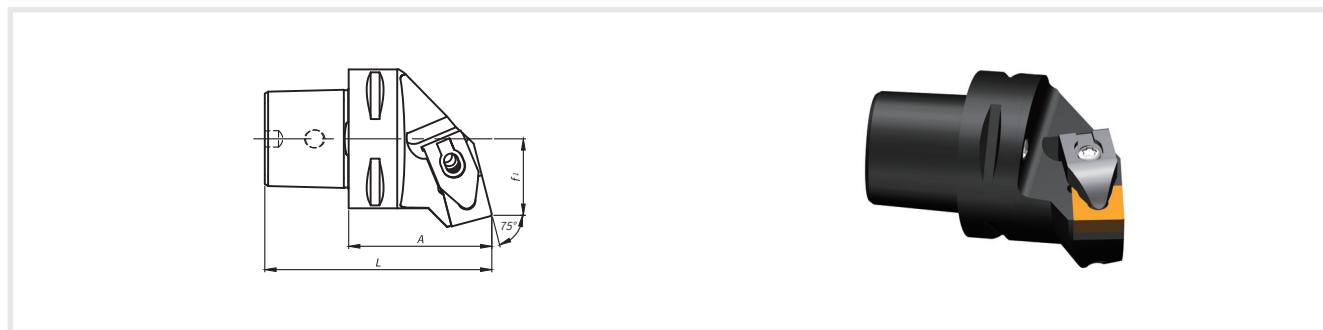
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75°刚性夹紧式外圆车刀DSRNR/L

Turning Tools of Lever Clamping 75 degrees



No	Model	Size	f1	A	R/L	L	Blade	kg
940.0054.092	PSC50-DSRNR-27060-12	50	27	60	R	90	SNMG1204..	0.6
940.0055.092	PSC50-DSRNL-27060-12	50	27	60	L	90	SNMG1204..	0.6
940.0056.092	PSC63-DSRNR-35065-12	63	35	65	R	103	SNMG1204..	1.1
940.0057.092	PSC63-DSRNL-35065-12	63	35	65	L	103	SNMG1204..	1.1
940.0213.092	PSC63-DSRNR-35065-19	63	35	65	R	103	SNMG1906..	1.1
940.0214.092	PSC63-DSRNL-35065-19	63	35	65	L	103	SNMG1906..	1.1

使用:本产品柄部符合ISO26623-1。

出厂标准产品包括:夹紧装置和刀垫。

注意:其他型号和尺寸可按订货要求制作。

Use:For holding PSC tools according to ISO 26623-1.

Specification:With clamping unit and base plate. (Without indexable insert)

Note:Other designs and sizes are available on request.

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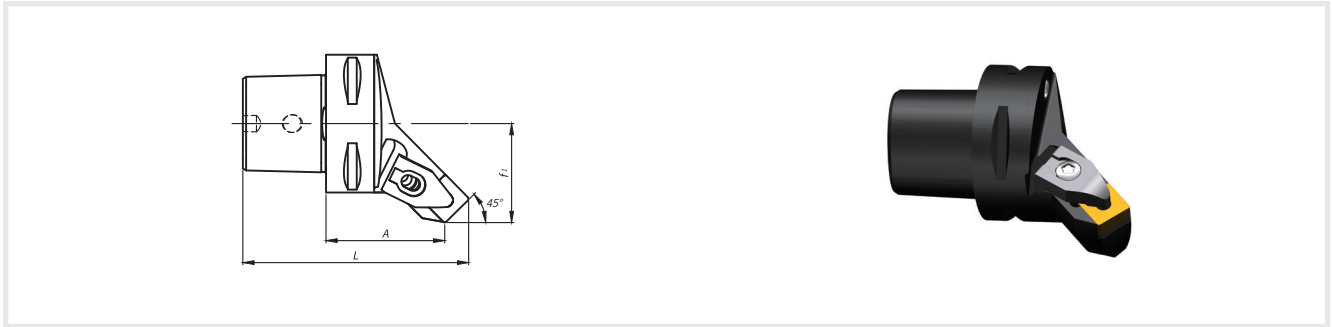
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45°刚性夹紧式外圆车刀DSSNR/L

Turning Tool Holders 45 degrees



No	Model	Size	f1	A	R/L	L	Blade	kg
940.0069.092	PSC50-DSSNR-35052-12	50	35	52	R	85	SNMG1204..	0.7
940.0070.092	PSC50-DSSNL-35052-12	50	35	52	L	85	SNMG1204..	0.7
940.0071.092	PSC63-DSSNR-45056-12	63	45	56	R	97	SNMG1204..	1.2
940.0072.092	PSC63-DSSNL-45056-12	63	45	56	L	97	SNMG1204..	1.2
940.0184.092	PSC63-DSSNR-45054-15	63	45	54	R	95	SNMG1506..	1.2
940.0185.092	PSC63-DSSNL-45054-15	63	45	54	L	95	SNMG1506..	1.2

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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93°刚性夹紧式外圆车刀DVJNR/L

Turning Tools clamping of Lever Holders 93 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0216.092	PSC63-DVJNR-45065-16	63	45	65	R	103	VNMG1604..	1.4
940.0217.092	PSC63-DVJNL-45065-16	63	45	65	L	103	VNMG1604..	1.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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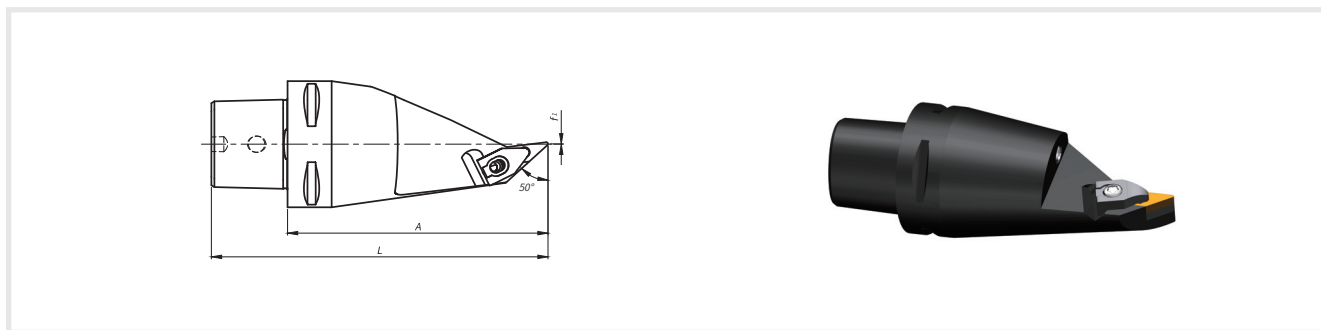


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50°刚性夹紧式外圆车刀DVMNR/L

Turning Tool Holders 50 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0310.092	PSC80-DVMNR-00160-16	80	0	160	R	208	VNMG1604..	1.7
940.0311.092	PSC80-DVMNL-00160-16	80	0	160	L	208	VNMG1604..	1.7

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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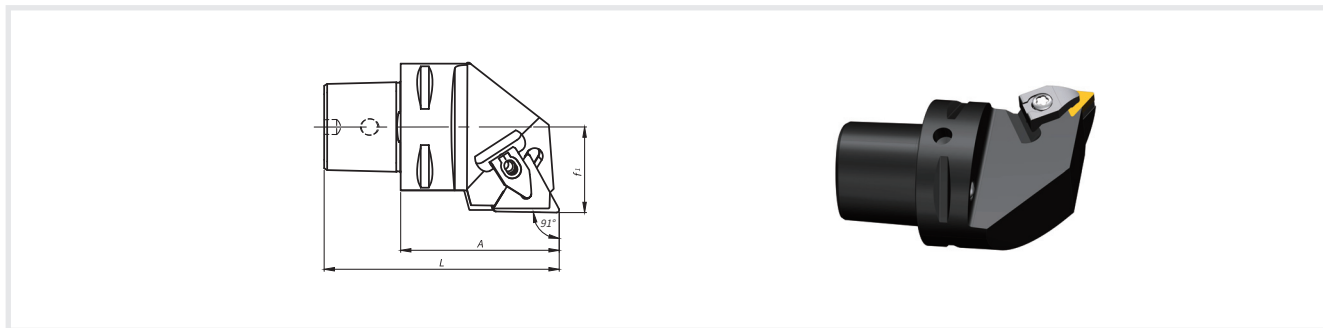


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91°刚性夹紧式外圆车刀DTGNR/L

Turning Tools of Lever Clamping 91 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0312.092	PSC40-DTGNR-27050-16	40	27	50	R	74	TNMG1604..	0.4
940.0313.092	PSC40-DTGNL-27050-16	40	27	50	L	74	TNMG1604..	0.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

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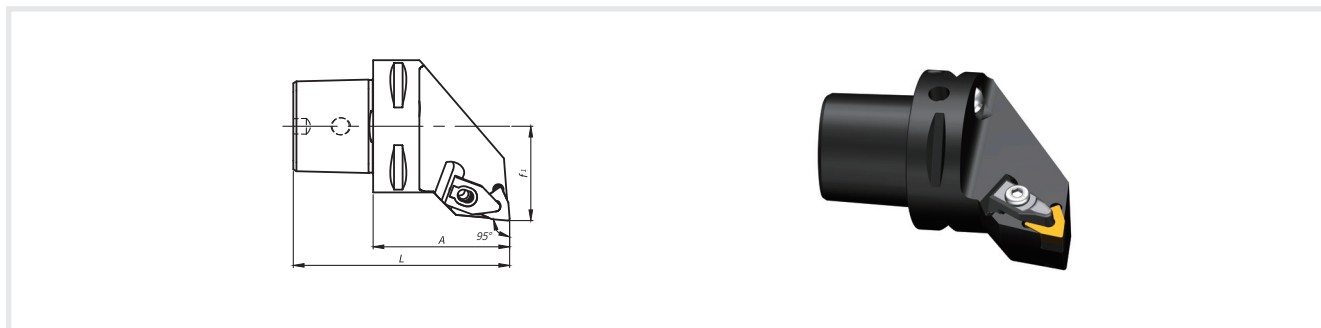


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95°刚性夹紧式外圆车刀DWLNR/L

Turning Tool Holders 95 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
581.0608.383	PSC50-DWLNR-35060-08	50	35	60	R	90	WNMG0804..	0.8
581.0708.383	PSC50-DWLNL-35060-08	50	35	60	L	90	WNMG0804..	0.8
581.0608.384	PSC63-DWLNR-45065-08	63	45	65	R	103	WNMG0804..	1.4
581.0708.384	PSC63-DWLNL-45065-08	63	45	65	L	103	WNMG0804..	1.4

使用:本产品柄部符合ISO26623-1。

Use:For holding PSC tools according to ISO 26623-1.

出厂标准产品包括:夹紧装置和刀垫。

Specification:With clamping unit and base plate. (Without indexable insert)

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

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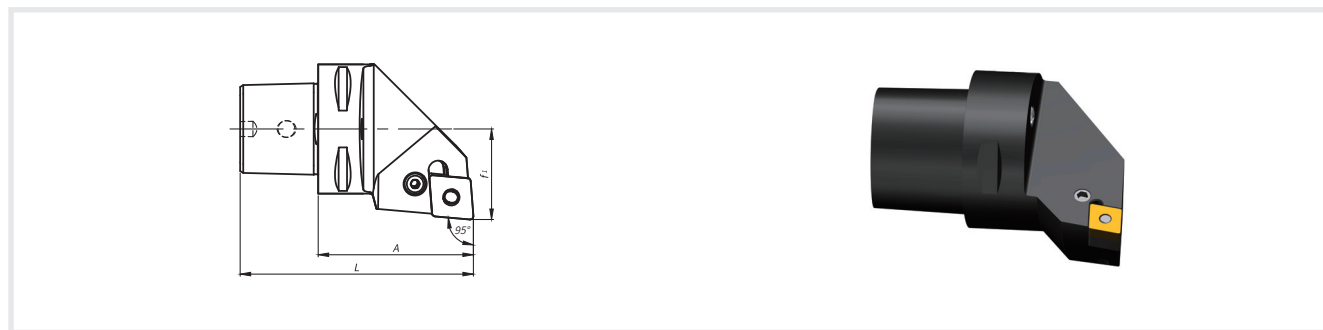


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95°杠杆夹紧式外圆车刀PCLNR/L

Turning Tools of Lever Clamping 95 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0083.092	PSC50-PCLNR-35060-12	50	35	60	R	90	CNMG1204..	0.8
940.0084.092	PSC50-PCLNL-35060-12	50	35	60	L	90	CNMG1204..	0.8
940.0085.092	PSC63-PCLNR-45065-12	63	45	65	R	103	CNMG1204..	1.4
940.0086.092	PSC63-PCLNL-45065-12	63	45	65	L	103	CNMG1204..	1.4
940.0087.092	PSC80-PCLNR-55080-12	80	55	80	R	128	CNMG1204..	2.8
940.0088.092	PSC80-PCLNL-55080-12	80	55	80	L	128	CNMG1204..	2.8
940.0314.092	PSC50-PCLNR-35060-16	50	35	60	R	90	CNMG1606..	0.8
940.0315.092	PSC50-PCLNL-35060-16	50	35	60	L	90	CNMG1606..	0.8
940.0316.092	PSC63-PCLNR-45065-16	63	45	65	R	103	CNMG1606..	1.4
940.0317.092	PSC63-PCLNL-45065-16	63	45	65	L	103	CNMG1606..	1.4
940.0318.092	PSC80-PCLNR-55080-16	80	55	80	R	128	CNMG1606..	2.8
940.0319.092	PSC80-PCLNL-55080-16	80	55	80	L	128	CNMG1606..	2.8
940.0320.092	PSC50-PCLNR-35060-19	50	35	60	R	90	CNMG1906..	0.8
940.0321.092	PSC50-PCLNL-35060-19	50	35	60	L	90	CNMG1906..	0.8
940.0322.092	PSC63-PCLNR-45065-19	63	45	65	R	103	CNMG1906..	1.4
940.0323.092	PSC63-PCLNL-45065-19	63	45	65	L	103	CNMG1906..	1.4
940.0324.092	PSC80-PCLNR-55080-19	80	55	80	R	128	CNMG1906..	2.8
940.0325.092	PSC80-PCLNL-55080-19	80	55	80	L	128	CNMG1906..	2.8

PSC 刀柄

本产品柄部符合ISO 26623-1标准

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括: 夹紧杠杆、锁紧螺钉以及刀垫等必需品

Standard Specification :Includes lever, retaining screws and base plate like other items

本厂支持非标准产品的订单制作

Other designs and sizes are available on request

ACCESSORIES

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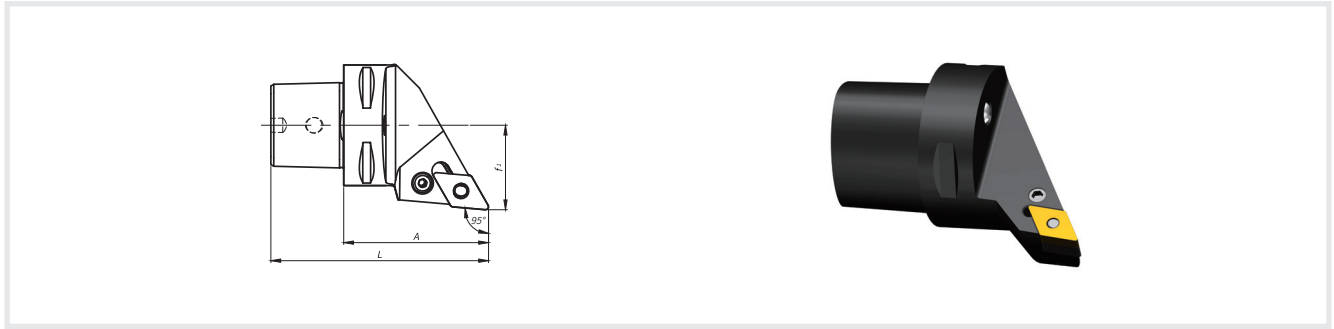
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95°杠杆夹紧式外圆车刀PDJNR/L

External turning tool of lever design 95 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0326.092	PSC50-PDJNR-35060-11	50	35	60	R	90	DNMG1104..	0.8
940.0327.092	PSC50-PDJNL-35060-11	50	35	60	L	90	DNMG1104..	0.8
940.0099.092	PSC50-PDJNR-35060-15	50	35	60	R	90	DNMG1506..	0.8
940.0100.092	PSC50-PDJNL-35060-15	50	35	60	L	90	DNMG1506..	0.8
940.0101.092	PSC63-PDJNR-45065-15	63	45	65	R	103	DNMG1506..	1.4
940.0102.092	PSC63-PDJNL-45065-15	63	45	65	L	103	DNMG1506..	1.4

本产品柄部符合ISO 26623-1标准

出厂标准产品包括 :夹紧杠杆、锁紧螺钉以及刀垫等必需品

本厂支持非标准产品的订单制作

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever, retaining screws and base plate like other items

Other designs and sizes are available on request

ACCESSORIES

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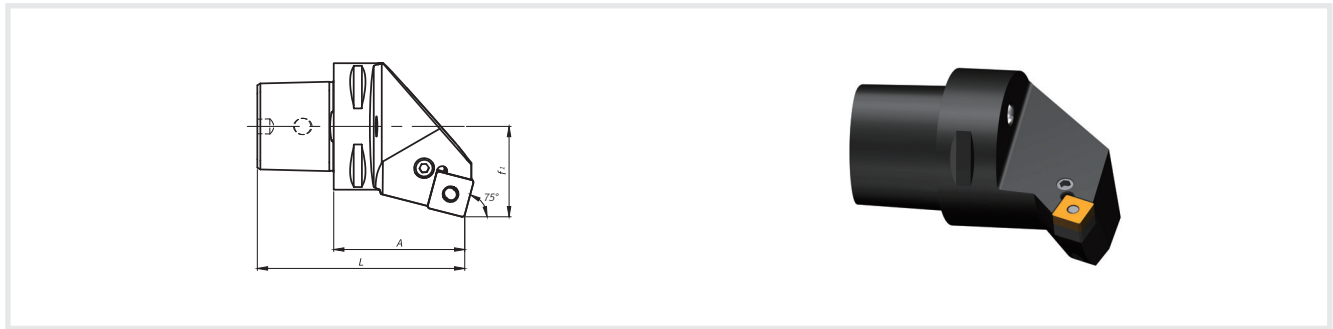
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75°杠杆夹紧式外圆车刀PSKNR/L

Turning Tools of Lever Clamping 75 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0328.092	PSC50-PSKNR-35060-12	50	35	60	R	90	SNMG1204..	0.8
940.0329.092	PSC50-PSKNL-35060-12	50	35	60	L	90	SNMG1204..	0.8
940.0330.092	PSC50-PSKNR-35060-15	50	35	60	R	90	SNMG1506..	0.8
940.0331.092	PSC50-PSKNL-35060-15	50	35	60	L	90	SNMG1506..	0.8
940.0332.092	PSC63-PSKNR-45065-15	63	45	65	R	103	SNMG1506..	1.4
940.0333.092	PSC63-PSKNL-45065-15	63	45	65	L	103	SNMG1506..	1.4
940.0334.092	PSC63-PSKNR-45065-19	63	45	65	R	103	SNMG1906..	1.4
940.0335.092	PSC63-PSKNL-45065-19	63	45	65	L	103	SNMG1906..	1.4

本产品柄部符合ISO 26623-1标准

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括: 夹紧杠杆、锁紧螺钉以及刀垫等必需品

Standard Specification :Includes lever, retaining screws and base plate like other items

本厂支持非标准产品的订单制作

Other designs and sizes are available on request

ACCESSORIES

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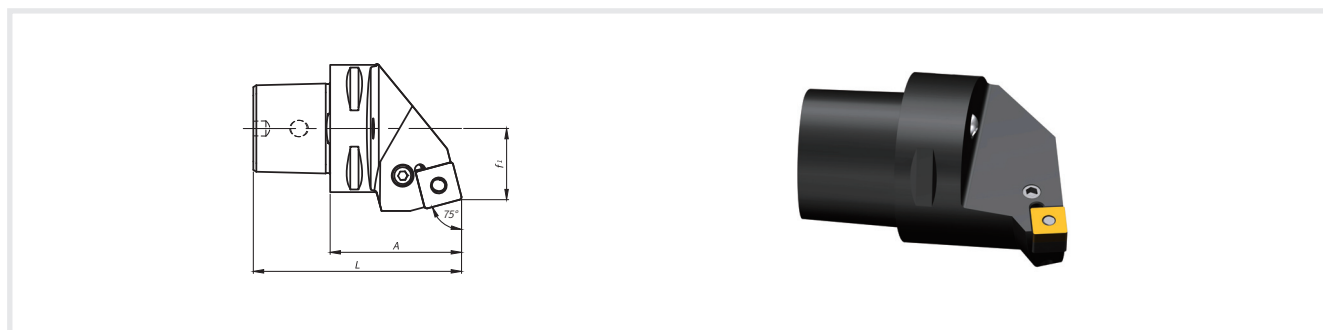


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75°杠杆夹紧式外圆车刀PSRNR/L

External turning tool of lever design 75 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0107.092	PSC50-PSRNR-27060-12	50	27	60	R	90	SNMG1204..	0.6
940.0108.092	PSC50-PSRNL-27060-12	50	27	60	L	90	SNMG1204..	0.6
940.0109.092	PSC63-PSRNR-35065-12	63	35	65	R	103	SNMG1204..	1.1
940.0110.092	PSC63-PSRNL-35065-12	63	35	65	L	103	SNMG1204..	1.1
940.0336.092	PSC50-PSRNR-27060-15	50	27	60	R	90	SNMG1506..	0.6
940.0337.092	PSC50-PSRNL-27060-15	50	27	60	L	90	SNMG1506..	0.6
940.0338.092	PSC63-PSRNR-35065-15	63	35	65	R	103	SNMG1506..	1.1
940.0339.092	PSC63-PSRNL-35065-15	63	35	65	L	103	SNMG1506..	1.1
940.0340.092	PSC50-PSRNR-27060-19	50	27	60	R	90	SNMG1906..	0.6
940.0341.092	PSC50-PSRNL-27060-19	50	27	60	L	90	SNMG1906..	0.6
940.0342.092	PSC63-PSRNR-35065-19	63	35	65	R	103	SNMG1906..	1.1
940.0343.092	PSC63-PSRNL-35065-19	63	35	65	L	103	SNMG1906..	1.1

本产品柄部符合ISO 26623-1标准

出厂标准产品包括 :夹紧杠杆、锁紧螺钉以及刀垫等必需品

本厂支持非标准产品的订单制作

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever, retaining screws and base plate like other items

Other designs and sizes are available on request

ACCESSORIES

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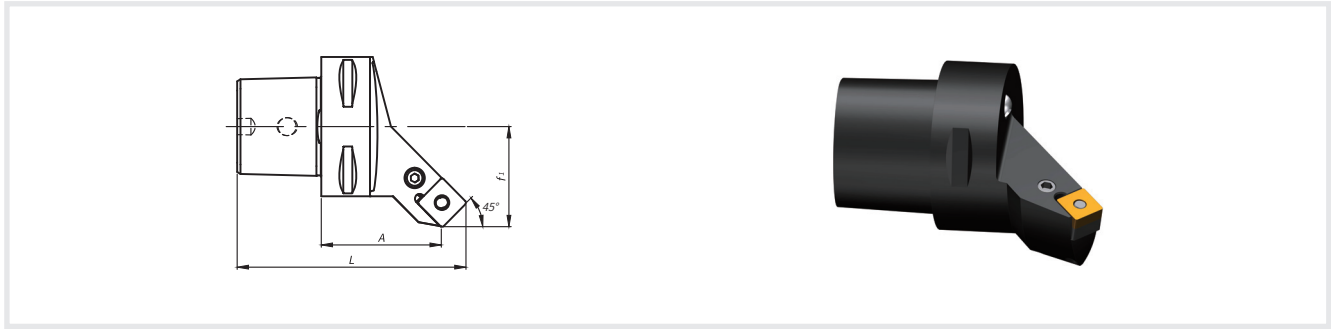
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45°杠杆夹紧式外圆车刀PSSNR/L

Turning Tools of Lever Clamping 45 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0127.092	PSC50-PSSNR-35052-12	50	35	52	R	90	SNMG1204..	0.7
940.0128.092	PSC50-PSSNL-35052-12	50	35	52	L	90	SNMG1204..	0.7
940.0129.092	PSC63-PSSNR-45056-12	63	45	56	R	102	SNMG1204..	1.2
940.0130.092	PSC63-PSSNL-45056-12	63	45	56	L	102	SNMG1204..	1.2
940.0344.092	PSC63-PSSNR-45054-15	63	45	54	R	102	SNMG1506..	1.2
940.0345.092	PSC63-PSSNL-45054-15	63	45	54	L	102	SNMG1506..	1.2
940.0346.092	PSC63-PSSNR-45052-19	63	45	52	R	103	SNMG1906..	1.2
940.0347.092	PSC63-PSSNL-45052-19	63	45	52	L	103	SNMG1906..	1.2

本产品柄部符合ISO 26623-1标准

出厂标准产品包括:夹紧杠杆、锁紧螺钉以及刀垫等必需品

本厂支持非标准产品的订单制作

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

ACCESSORIES

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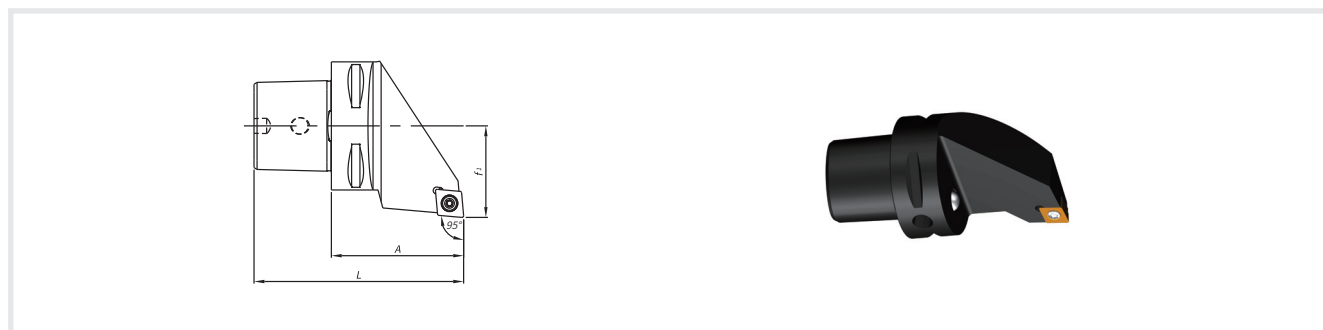
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95°螺钉夹紧式外圆车刀SCLCR/L

Turning Tools Holders of Clamping Screws 95 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0348.092	PSC50-SCLCR-35060-09	50	35	60	R	90	CCMT09T3..	0.8
940.0349.092	PSC50-SCLCL-35060-09	50	35	60	L	90	CCMT09T3..	0.8
940.0350.092	PSC63-SCLCR-45065-09	63	45	65	R	103	CCMT09T3..	1.4
940.0351.092	PSC63-SCLCL-45065-09	63	45	65	L	103	CCMT09T3..	1.4
940.0360.092	PSC50-SCLCR-35060-12	50	35	60	R	90	CCMT1204..	0.8
940.0361.092	PSC50-SCLCL-35060-12	50	35	60	L	90	CCMT1204..	0.8
940.0362.092	PSC63-SCLCR-45065-12	63	45	65	R	103	CCMT1204..	1.4
940.0363.092	PSC63-SCLCL-45065-12	63	45	65	L	103	CCMT1204..	1.4

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括：锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

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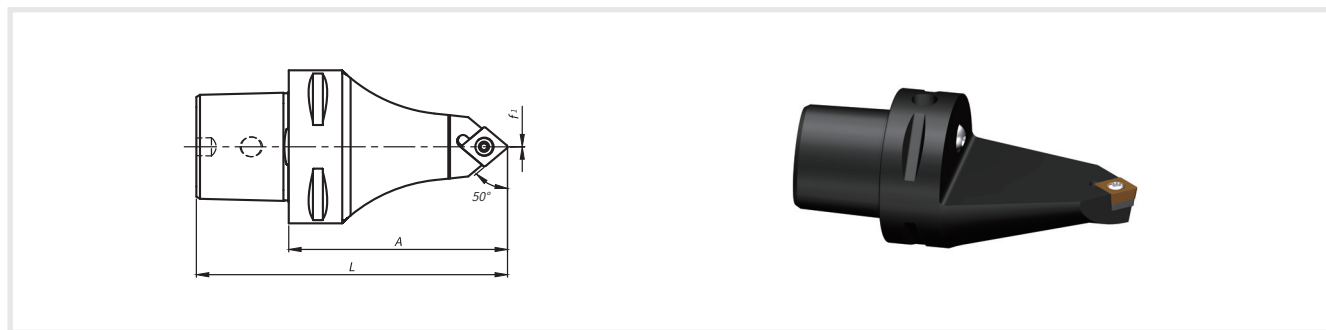
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50°螺钉夹紧式外圆车刀SCMCN

Turning Tools Holders 50 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0364.092	PSC63-SCMCN-00090-12	63	0	90	N	128	CCMT1204..	0.7

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括：锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

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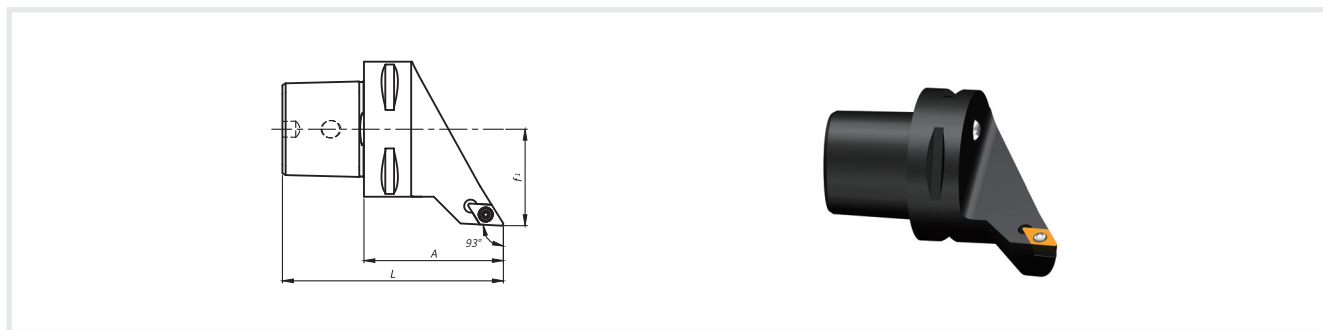
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93°螺钉夹紧式外圆车刀SDJCR/L

Turning Tools Holders of Clamping Screws 93 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
581.0411.383	PSC50-SDJCR-35060-11	50	35	60	R	90	DCMT11T3..	0.8
581.0511.383	PSC50-SDJCL-35060-11	50	35	60	L	90	DCMT11T3..	0.8
581.0411.384	PSC63-SDJCR-45065-11	63	45	65	R	103	DCMT11T3..	1.4
581.0511.384	PSC63-SDJCL-45065-11	63	45	65	L	103	DCMT11T3..	1.4

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever, retaining screws and base plate like other items

Other designs and sizes are available on request

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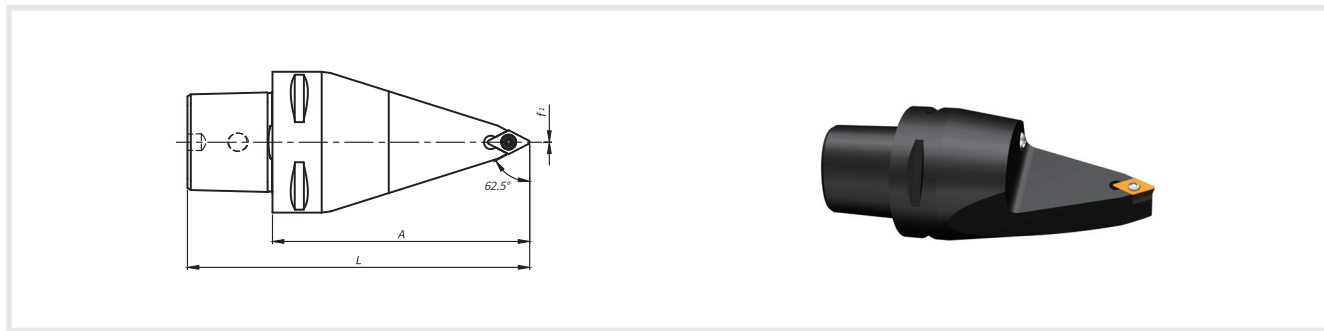
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62.5°螺钉夹紧式外圆车刀SDN CN

Clamping Screws for Turning Tools Holders 62.5 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
581.0811.383	PSC50-SDN CN-00115-11	50	0	115	N	145	DCMT11T3..	0.4
581.0811.384	PSC63-SDN CN-00115-11	63	0	115	N	153	DCMT11T3..	0.7

本产品柄部符合ISO 26623-1标准。

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

Standard Specification :Includes lever,retaining screws and base plate like other items

本厂支持非标准产品的订单制作。

Other designs and sizes are available on request

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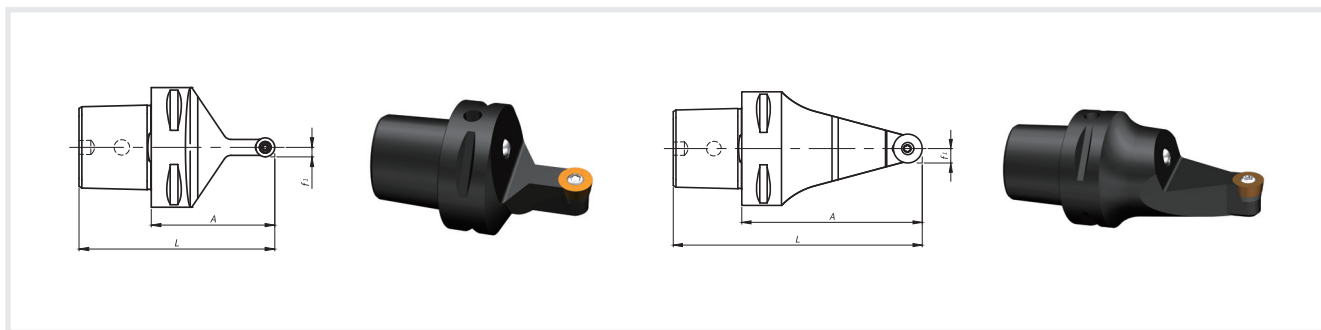
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螺钉夹紧式外圆车刀SRDCN

Turning Tools Holders of Clamping Screws



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0366.092	PSC50-SRDCN-00060-08	50	4	60	N	90	RCMT0803..	0.4
940.0367.092	PSC50-SRDCN-00060-10	50	5	60	N	90	RCMT10T3..	0.4
940.0368.092	PSC63-SRDCN-00065-10	63	5	65	N	103	RCMT10T3..	0.7
940.0369.092	PSC63-SRDCN-00100-10	63	5	100	N	138	RCMT10T3..	0.7
940.0370.092	PSC50-SRDCN-00060-12	50	6	60	N	90	RCMT1204..	0.4
940.0371.092	PSC63-SRDCN-00065-12	63	6	65	N	103	RCMT1204..	0.7
940.0372.092	PSC50-SRDCN-00060-16	50	8	60	N	90	RCMT1606..	0.4
940.0373.092	PSC63-SRDCN-00065-16	63	8	65	N	103	RCMT1606..	0.7
940.0374.092	PSC63-SRDCN-00100-16	63	8	100	N	138	RCMT1606..	0.7
940.0375.092	PSC50-SRDCN-00060-20	50	10	60	N	90	RCMT2006..	0.4
940.0376.092	PSC63-SRDCN-00065-20	63	10	65	N	103	RCMT2006..	0.7

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

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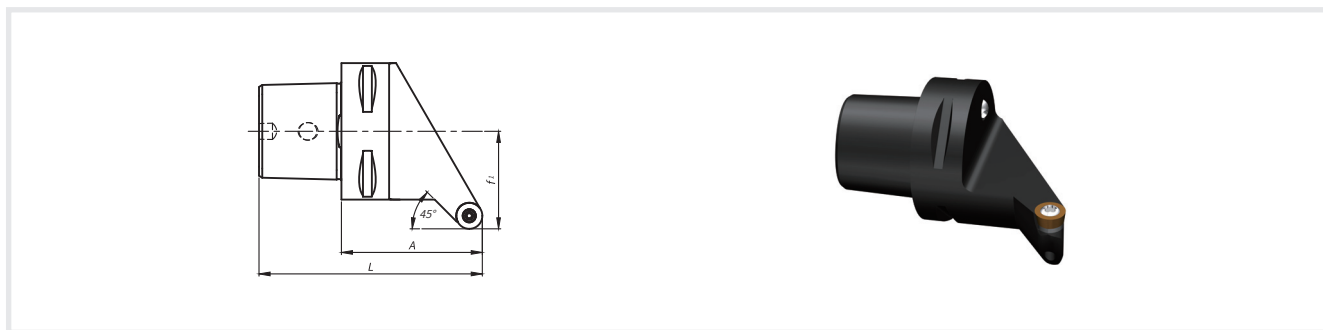
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45°螺钉夹紧式外圆车刀SRSCR/L

Clamping Screws for Turning Tools Holders 45 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0196.092	PSC63-SRSCR-45065-12	63	45	65	R	103	RCMT1204..	1.4
940.0197.092	PSC63-SRSL-45065-12	63	45	65	L	103	RCMT1204..	1.4
940.0200.092	PSC63-SRSCR-45065-16	63	45	65	R	103	RCMT1606..	1.4
940.0201.092	PSC63-SRSL-45065-16	63	45	65	L	103	RCMT1606..	1.4

本产品柄部符合ISO 26623-1标准。

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

Standard Specification :Includes lever,retaining screws and base plate like other items

本厂支持非标准产品的订单制作。

Other designs and sizes are available on request

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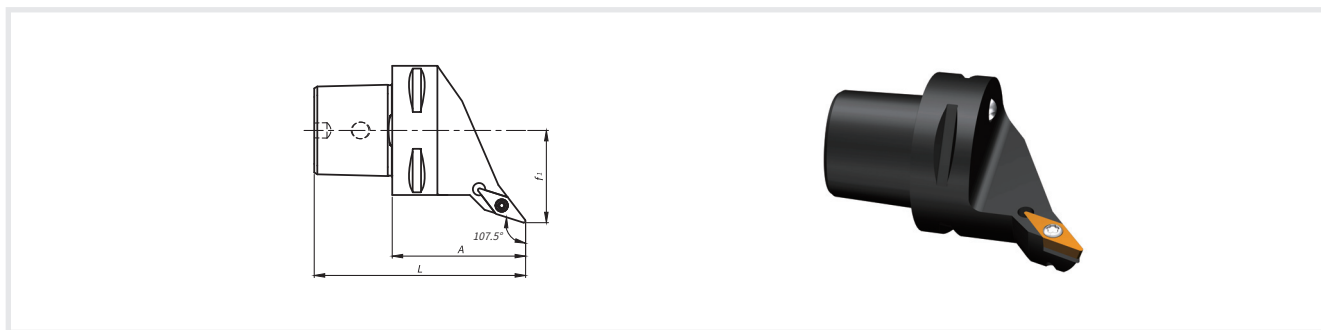


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107.5°螺钉夹紧式外圆车刀SVHBR/L

Turning Tools Holders of Clamping Screws 107.5 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0218.092	PSC50-SVHBR-35060-16	50	35	60	R	90	VBMT1604..	0.8
940.0219.092	PSC50-SVHBL-35060-16	50	35	60	L	90	VBMT1604..	0.8
940.0190.092	PSC63-SVHBR-45065-16	63	45	65	R	103	VBMT1604..	1.4
940.0191.092	PSC63-SVHBL-45065-16	63	45	65	L	103	VBMT1604..	1.4

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

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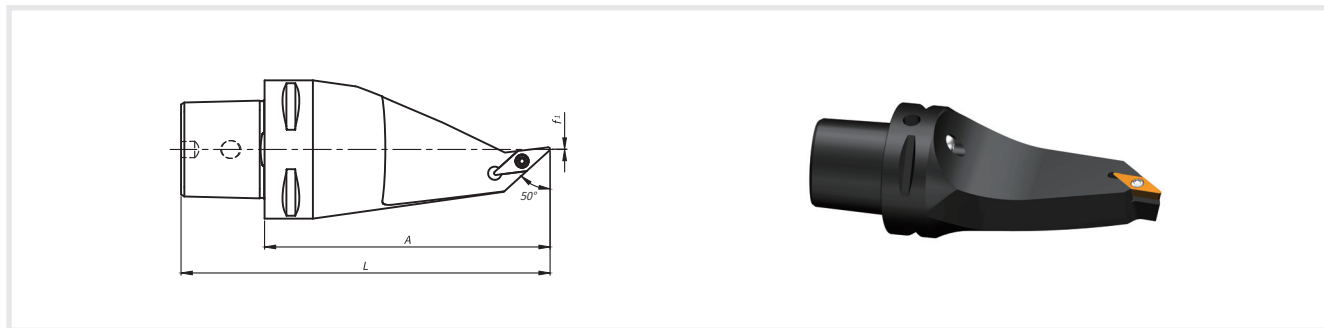
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50°螺钉夹紧式外圆车刀SVMBR/L

Clamping Screws for Turning Tools Holders 50 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0377.092	PSC63-SVMBR-00130-16	63	0	130	R	168	VBMT1604..	0.7
940.0378.092	PSC63-SVMBL-00130-16	63	0	130	L	168	VBMT1604..	0.7

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

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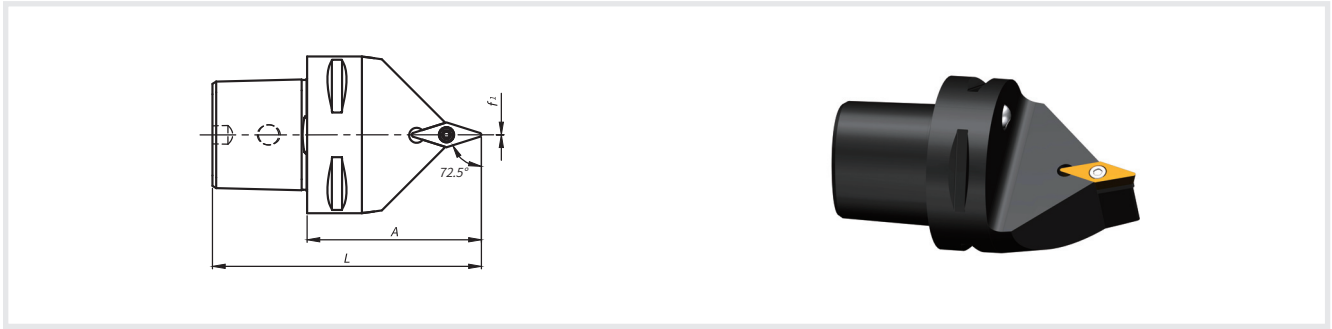
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72.5°螺钉夹紧式外圆车刀SWBN

Inner Hole Tools of Clamping Screws 72.5 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0211.092	PSC50-SVVBN-00060-16	50	0	60	N	90	VBMT1604..	0.4
940.0212.092	PSC63-SVVBN-00065-16	63	0	65	N	103	VBMT1604..	0.7

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

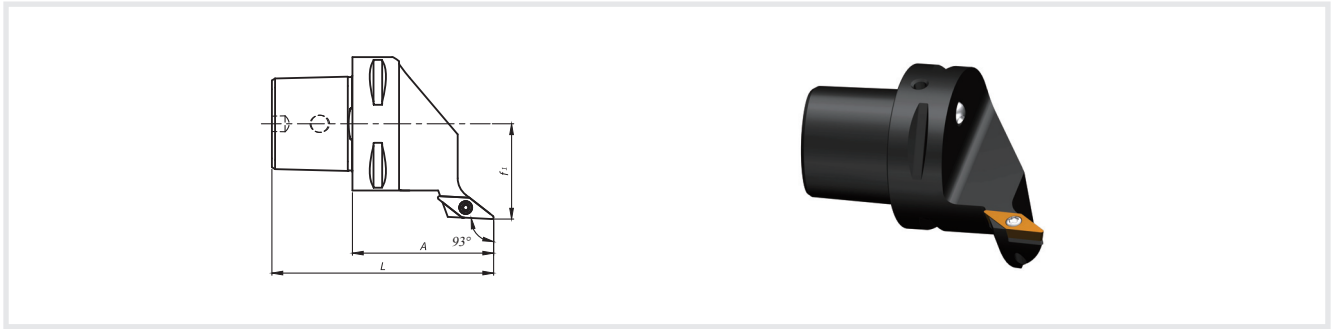
Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

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93°螺钉夹紧式外圆车刀SVJBR/L

Inner Hole Tools of Clamping Screws 107.5 degrees



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0231.092	PSC50-SVJBR-35060-16	50	35	60	R	90	VBMT1604..	0.8
940.0232.092	PSC50-SVJBL-35060-16	50	35	60	L	90	VBMT1604..	0.8
940.0233.092	PSC63-SVJBR-45065-16	63	45	65	R	103	VBMT1604..	1.4
940.0234.092	PSC63-SVJBL-45065-16	63	45	65	L	103	VBMT1604..	1.4

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必须品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

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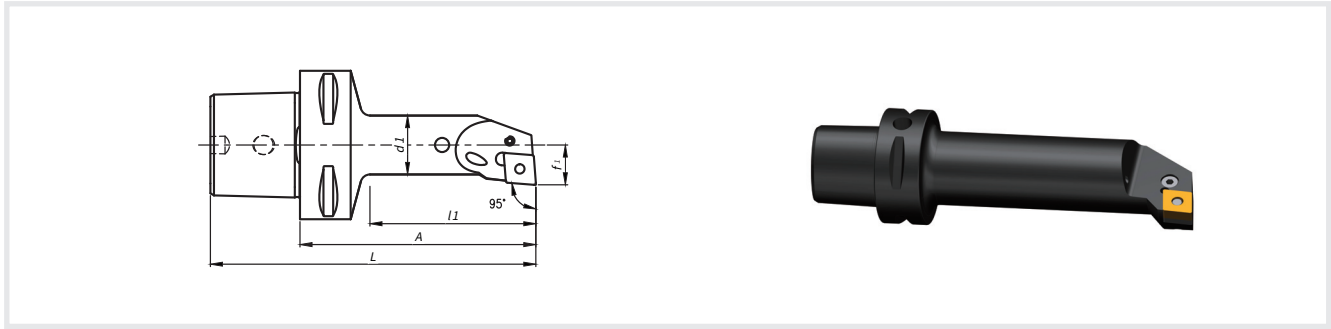
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95°杠杆夹紧式内孔车刀PCLNR/L

Endoopus lathe tool of lever design 95 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0379.092	PSC50-PCLNR-17090-12	50	17	90	R	32	67	25	120	CNMG1204..	0.7
940.0380.092	PSC50-PCLNL-17090-12	50	17	90	L	32	67	25	120	CNMG1204..	0.7
940.0381.092	PSC50-PCLNR-22110-12	50	22	110	R	40	88	32	140	CNMG1204..	0.9
940.0382.092	PSC50-PCLNL-22110-12	50	22	110	L	40	88	32	140	CNMG1204..	0.9
940.0383.092	PSC50-PCLNR-27140-12	50	27	140	R	50	119	40	170	CNMG1204..	1.5
940.0384.092	PSC50-PCLNL-27140-12	50	27	140	L	50	119	40	170	CNMG1204..	1.5
940.0385.092	PSC50-PCLNR-35100-12	50	35	100	R	63	81	50	130	CNMG1204..	1.5
940.0386.092	PSC50-PCLNL-35100-12	50	35	100	L	63	81	50	130	CNMG1204..	1.5
940.0387.092	PSC63-PCLNR-17100-12	63	17	100	R	32	74	25	138	CNMG1204..	1
940.0388.092	PSC63-PCLNL-17100-12	63	17	100	L	32	74	25	138	CNMG1204..	1
940.0389.092	PSC63-PCLNR-22110-12	63	22	110	R	40	84	32	148	CNMG1204..	1.2
940.0390.092	PSC63-PCLNL-22110-12	63	22	110	L	40	84	32	148	CNMG1204..	1.2
940.0391.092	PSC50-PCLNR-35150-16	50	35	150	R	63	131	50	180	CNMG1606..	2.2
940.0392.092	PSC50-PCLNL-35150-16	50	35	150	L	63	131	50	180	CNMG1606..	2.2
940.0393.092	PSC63-PCLNR-27140-16	63	27	140	R	50	115	40	178	CNMG1606..	1.8
940.0394.092	PSC63-PCLNL-27140-16	63	27	140	L	50	115	40	178	CNMG1606..	1.8
940.0395.092	PSC63-PCLNR-35175-16	63	35	175	R	63	152	50	213	CNMG1606..	2.9
940.0396.092	PSC63-PCLNL-35175-16	63	35	175	L	63	152	50	213	CNMG1606..	2.9

本产品柄部符合ISO 26623-1标准

出厂标准产品包括 :夹紧杠杆、锁紧螺钉以及刀垫等必需品

本厂支持非标准产品的订单制作

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items


Other designs and sizes are available on request

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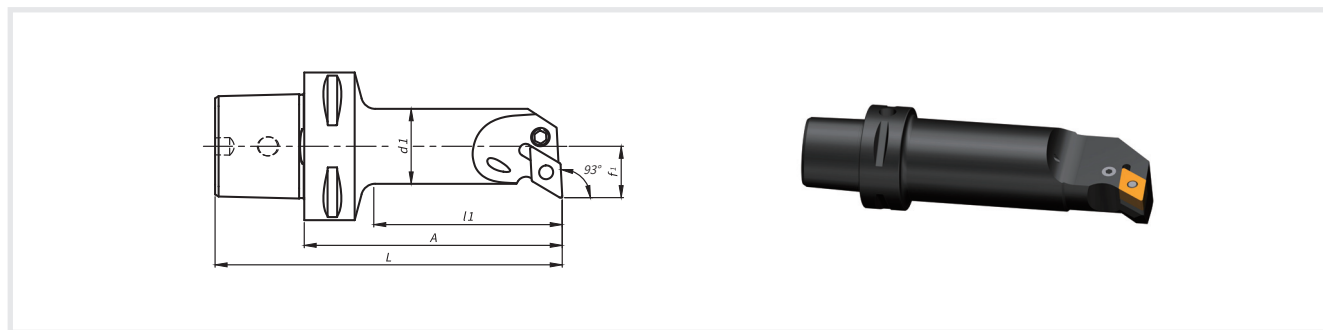
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93°杠杆夹紧式内孔车刀PDUNR/L

Inner Hole Tools of Lever Clamping 93 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0500.092	PSC50-PDUNR-17090-11	50	17	90	R	32	67	25	120	DNMG1104..	0.7
940.0501.092	PSC50-PDUNL-17090-11	50	17	90	L	32	67	25	120	DNMG1104..	0.7
940.0502.092	PSC50-PDUNR-22110-11	50	22	110	R	40	88	32	140	DNMG1104..	0.9
940.0503.092	PSC50-PDUNL-22110-11	50	22	110	L	40	88	32	140	DNMG1104..	0.9
940.0504.092	PSC63-PDUNR-17100-11	63	17	100	R	32	74	25	138	DNMG1104..	1
940.0505.092	PSC63-PDUNL-17100-11	63	17	100	L	32	74	25	138	DNMG1104..	1
940.0506.092	PSC50-PDUNR-27140-15	50	27	140	R	50	119	40	170	DNMG1506..	1.5
940.0507.092	PSC50-PDUNL-27140-15	50	27	140	L	50	119	40	170	DNMG1506..	1.5
940.0508.092	PSC50-PDUNR-35100-15	50	35	100	R	63	81	50	130	DNMG1506..	1.5
940.0509.092	PSC50-PDUNL-35100-15	50	35	100	L	63	81	50	130	DNMG1506..	1.5
940.0510.092	PSC50-PDUNR-35150-15	50	35	150	R	63	131	50	180	DNMG1506..	2.2
940.0511.092	PSC50-PDUNL-35150-15	50	35	150	L	63	131	50	180	DNMG1506..	2.2
940.0512.092	PSC63-PDUNR-27140-15	63	27	140	R	50	115	40	178	DNMG1506..	1.8
940.0513.092	PSC63-PDUNL-27140-15	63	27	140	L	50	115	40	178	DNMG1506..	1.8
940.0514.092	PSC63-PDUNR-35175-15	63	35	175	R	63	152	50	213	DNMG1506..	2.9
940.0515.092	PSC63-PDUNL-35175-15	63	35	175	L	63	152	50	213	DNMG1506..	2.9

本产品柄部符合ISO 26623-1标准

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括: 夹紧杠杆、锁紧螺钉以及刀垫等必需品

Standard Specification :Includes lever, retaining screws and base plate like other items

本厂支持非标准产品的订单制作

Other designs and sizes are available on request

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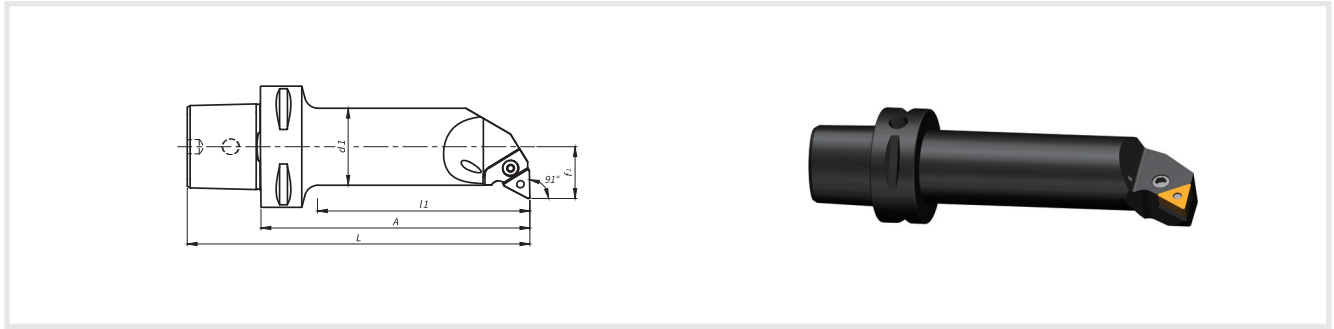


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91°杠杆夹紧式内孔车刀PTFNR/L

Inner Hole Turning Tools of lever design for 91 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0516.092	PSC50-PTFNR-17090-16W	50	17	90	R	32	67	25	120	TNMG1604..	0.7
940.0517.092	PSC50-PTFNL-17090-16W	50	17	90	L	32	67	25	120	TNMG1604..	0.7
940.0518.092	PSC50-PTFNR-22110-16W	50	22	110	R	40	88	32	140	TNMG1604..	0.9
940.0519.092	PSC50-PTFNL-22110-16W	50	22	110	L	40	88	32	140	TNMG1604..	0.9
940.0520.092	PSC50-PTFNR-27140-16W	50	27	140	R	50	119	40	170	TNMG1604..	1.5
940.0521.092	PSC50-PTFNL-27140-16W	50	27	140	L	50	119	40	170	TNMG1604..	1.5
940.0522.092	PSC63-PTFNR-22110-16W	63	22	110	R	40	84	32	148	TNMG1604..	1.2
940.0523.092	PSC63-PTFNL-22110-16W	63	22	110	L	40	84	32	148	TNMG1604..	1.2
940.0524.092	PSC50-PTFNR-35150-22W	50	35	150	R	63	131	35	180	TNMG2204..	1.3
940.0525.092	PSC50-PTFNL-35150-22W	50	35	150	L	63	131	35	180	TNMG2204..	1.3
940.0526.092	PSC63-PTFNR-27140-22W	63	27	140	R	50	115	27	178	TNMG2204..	1.2
940.0527.092	PSC63-PTFNL-27140-22W	63	27	140	L	50	115	27	178	TNMG2204..	1.2
940.0528.092	PSC63-PTFNR-35175-22W	63	35	175	R	63	152	35	213	TNMG2204..	1.8
940.0529.092	PSC63-PTFNL-35175-22W	63	35	175	L	63	152	35	213	TNMG2204..	1.8

本产品柄部符合ISO 26623-1标准

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括 : 夹紧杠杆、锁紧螺钉以及刀垫等必需品

Standard Specification : Includes lever, retaining screws and base plate like other items

本厂支持非标准产品的订单制作

Other designs and sizes are available on request

PSC 刀柄

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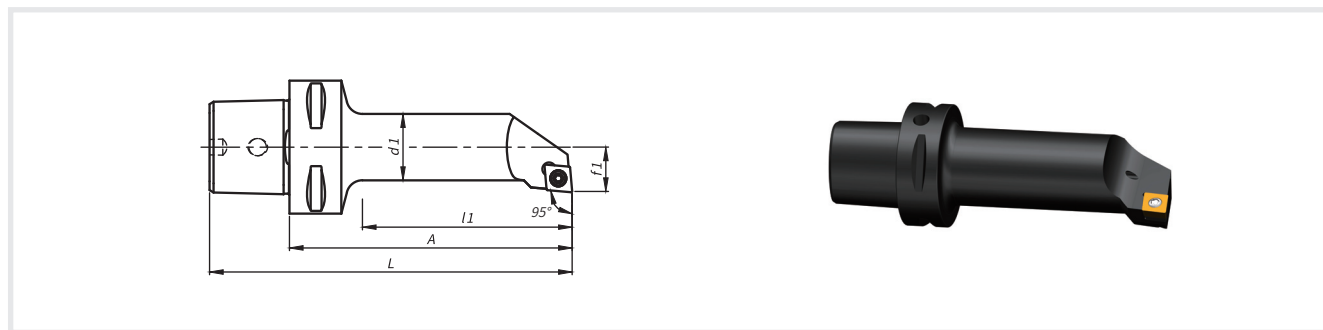
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95°螺钉夹紧式内孔车刀SCLCR/L

Inner Hole Tools of Clamping Screws 95 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0148.092	PSC50-SCLCR-11070-09	50	11	70	R	20	46	16	100	CCMT09T3..	0.5
940.0149.092	PSC50-SCLCL-11070-09	50	11	70	L	20	46	16	100	CCMT09T3..	0.5
940.0150.092	PSC50-SCLCR-13080-09	50	13	80	R	25	56	20	110	CCMT09T3..	0.5
940.0151.092	PSC50-SCLCL-13080-09	50	13	80	L	25	56	20	110	CCMT09T3..	0.5
582.0009.383	PSC50-SCLCR-17090-09	50	17	90	R	32	67	25	120	CCMT09T3..	0.7
582.0109.383	PSC50-SCLCL-17090-09	50	17	90	L	32	67	25	120	CCMT09T3..	0.7
940.0154.092	PSC50-SCLCR-35100-09	50	35	100	R	63	80	50	130	CCMT09T3..	1.5
940.0155.092	PSC50-SCLCL-35100-09	50	35	100	L	63	80	50	130	CCMT09T3..	1.5
940.0241.092	PSC63-SCLCR-22125-12	63	22	125	R	40	99	32	163	CCMT1204..	1.3
940.0242.092	PSC63-SCLCL-22125-12	63	22	125	L	40	99	32	163	CCMT1204..	1.3
940.0243.092	PSC63-SCLCR-22160-12	63	22	160	R	40	134	32	198	CCMT1204..	1.5
940.0244.092	PSC63-SCLCL-22160-12	63	22	160	L	40	134	32	198	CCMT1204..	1.5
940.0245.092	PSC63-SCLCR-27140-12	63	27	140	R	50	115	40	178	CCMT1204..	1.8
940.0246.092	PSC63-SCLCL-27140-12	63	27	140	L	50	115	40	178	CCMT1204..	1.8
940.0247.092	PSC63-SCLCR-27180-12	63	27	180	R	50	155	40	218	CCMT1204..	2.1
940.0248.092	PSC63-SCLCL-27180-12	63	27	180	L	50	155	40	218	CCMT1204..	2.1

本产品柄部符合ISO 26623-1标准。

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括:锁紧螺钉、刀垫等必须品。

Standard Specification :Includes lever,retaining screws and base plate like other items

本厂支持非标准产品的订单制作。

Other designs and sizes are available on request

ACCESSORIES

配件



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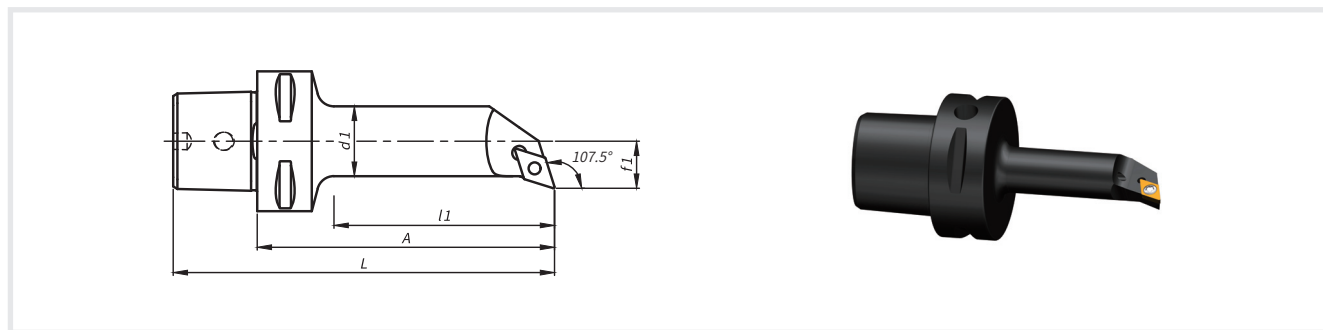


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107.5°螺钉夹紧式内孔车刀SDQCR/L

Inner Hole Tools of Clamping Screws 107.5 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0249.092	PSC50-SDQCR-13080-11	50	13	80	R	25	56	25	110	DCMT11T3..	0.6
940.0250.092	PSC50-SDQCL-13080-11	50	13	80	L	25	56	25	110	DCMT11T3..	0.6
940.0251.092	PSC50-SDQCR-17090-11	50	17	90	R	32	67	32	120	DCMT11T3..	0.8
940.0252.092	PSC50-SDQCL-17090-11	50	17	90	L	32	67	32	120	DCMT11T3..	0.8
940.0253.092	PSC50-SDQCR-22110-11	50	22	110	R	40	88	40	140	DCMT11T3..	1.2
940.0254.092	PSC50-SDQCL-22110-11	50	22	110	L	40	88	40	140	DCMT11T3..	1.2
940.0255.092	PSC63-SDQCR-22125-11	63	22	125	R	40	99	32	163	DCMT11T3..	1.3
940.0256.092	PSC63-SDQCL-22125-11	63	22	125	L	40	99	32	163	DCMT11T3..	1.3
940.0257.092	PSC63-SDQCR-22160-11	63	22	160	R	40	134	32	198	DCMT11T3..	1.5
940.0258.092	PSC63-SDQCL-22160-11	63	22	160	L	40	134	32	198	DCMT11T3..	1.5
940.0259.092	PSC63-SDQCR-27140-11	63	27	140	R	50	115	40	178	DCMT11T3..	1.8
940.0260.092	PSC63-SDQCL-27140-11	63	27	140	L	50	115	40	178	DCMT11T3..	1.8
940.0261.092	PSC63-SDQCR-27180-11	63	27	180	R	50	155	40	218	DCMT11T3..	2.1
940.0262.092	PSC63-SDQCL-27180-11	63	27	180	L	50	155	40	218	DCMT11T3..	2.1

本产品柄部符合ISO 26623-1标准。

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

Standard Specification :Includes lever,retaining screws and base plate like other items

本厂支持非标准产品的订单制作。

Other designs and sizes are available on request

ACCESSORIES

配件



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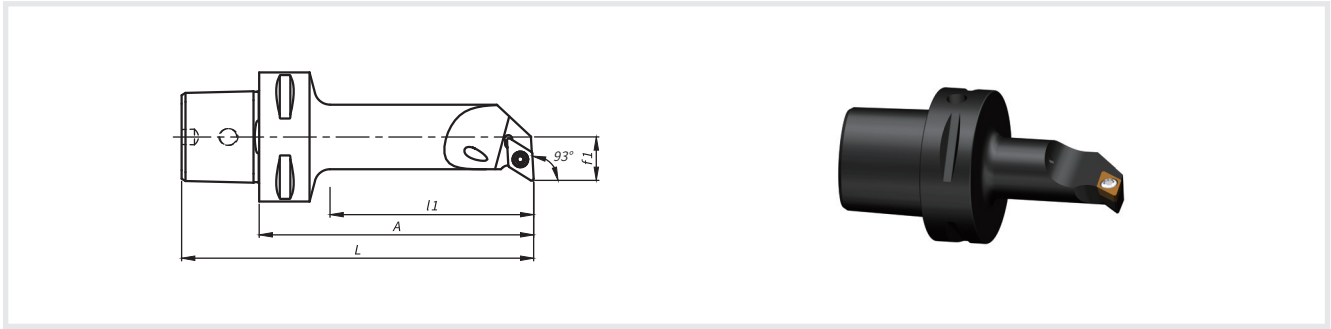
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93°螺钉夹紧式内孔车刀SDUCR/L

Inner Hole Tools of Clamping Screws 93 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0530.092	PSC50-SDUCR-11070-07	50	11	70	R	20	46	16	100	DCMT0702..	0.5
940.0531.092	PSC50-SDUCL-11070-07	50	11	70	L	20	46	16	100	DCMT0702..	0.5
940.0164.092	PSC50-SDUCR-13080-11	50	13	80	R	25	56	20	110	DCMT11T3..	0.5
940.0165.092	PSC50-SDUCL-13080-11	50	13	80	L	25	56	20	110	DCMT11T3..	0.5
582.0211.383	PSC50-SDUCR-17090-11	50	17	90	R	32	67	25	120	DCMT11T3..	0.7
582.0311.383	PSC50-SDUCL-17090-11	50	17	90	L	32	67	25	120	DCMT11T3..	0.7
582.0611.383	PSC50-SDUCR-22110-11	50	22	110	R	40	88	32	140	DCMT11T3..	0.9
582.0711.383	PSC50-SDUCL-22110-11	50	22	110	L	40	88	32	140	DCMT11T3..	0.9

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

ACCESSORIES

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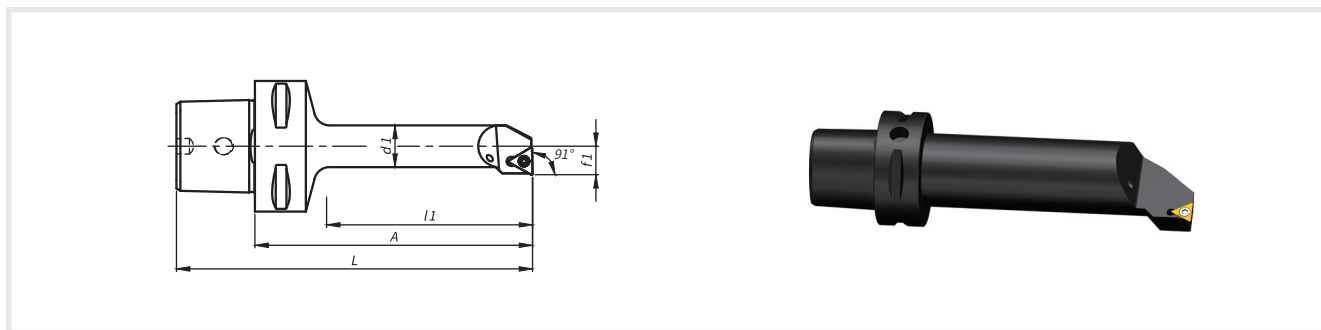
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91°螺钉夹紧式内孔车刀STFCR/L

Inner Hole Tools of Clamping Screws 91 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0532.092	PSC50-STFCR-11070-11	50	11	70	R	20	46	16	100	TCMT1102..	0.5
940.0533.092	PSC50-STFCL-11070-11	50	11	70	L	20	46	16	100	TCMT1102..	0.5
940.0534.092	PSC50-STFCR-13080-11	50	13	80	R	25	56	20	110	TCMT1102..	0.5
940.0535.092	PSC50-STFCL-13080-11	50	13	80	L	25	56	20	110	TCMT1102..	0.5
940.0536.092	PSC50-STFCR-17090-16	50	17	90	R	32	67	25	120	TCMT16T3..	0.7
940.0537.092	PSC50-STFCL-17090-16	50	17	90	L	32	67	25	120	TCMT16T3..	0.7
940.0538.092	PSC50-STFCR-22110-16	50	22	110	R	40	88	32	140	TCMT16T3..	0.9
940.0539.092	PSC50-STFCL-22110-16	50	22	110	L	40	88	32	140	TCMT16T3..	0.9

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

PSC 刀柄

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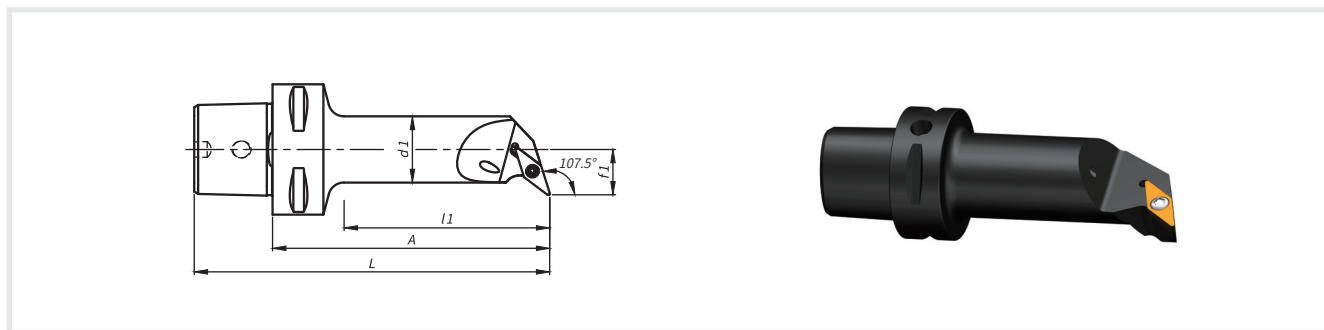
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107.5°螺钉夹紧式内孔车刀SVQBR/L

Inner Hole Tools of Clamping Screws 107.5 degrees



No.	Model	Size	f1	A	R/L	Dmin	l1	d1	L	Blade	kg
940.0540.092	PSC50-SVQBR-15080-11	50	15	80	R	27	56	20	110	VBMT1103..	0.5
940.0541.092	PSC50-SVQBL-15080-11	50	15	80	L	27	56	20	110	VBMT1103..	0.5
940.0542.092	PSC50-SVQBR-18090-16	50	18	90	R	33	67	25	120	VBMT1604..	0.7
940.0543.092	PSC50-SVQBL-18090-16	50	18	90	L	33	67	25	120	VBMT1604..	0.7
940.0544.092	PSC50-SVQBR-22110-16	50	22	110	R	40	88	32	140	VBMT1604..	0.9
940.0545.092	PSC50-SVQBL-22110-16	50	22	110	L	40	88	32	140	VBMT1604..	0.9
940.0546.092	PSC50-SVQBR-27140-16	50	27	140	R	50	119	40	170	VBMT1604..	1.5
940.0547.092	PSC50-SVQBL-27140-16	50	27	140	L	50	119	40	170	VBMT1604..	1.5
940.0548.092	PSC50-SVQBR-35100-16	50	35	100	R	63	80	50	130	VBMT1604..	1.5
940.0549.092	PSC50-SVQBL-35100-16	50	35	100	L	63	80	50	130	VBMT1604..	1.5
940.0550.092	PSC50-SVQBR-35150-16	50	35	150	R	63	130	50	180	VBMT1604..	2.2
940.0551.092	PSC50-SVQBL-35150-16	50	35	150	L	63	130	50	180	VBMT1604..	2.2
940.0552.092	PSC63-SVQBR-22120-16	63	22	120	R	40	94	32	158	VBMT1604..	1.3
940.0553.092	PSC63-SVQBL-22120-16	63	22	120	L	40	94	32	158	VBMT1604..	1.3
940.0554.092	PSC63-SVQBR-27145-16	63	27	145	R	50	120	40	183	VBMT1604..	1.8
940.0555.092	PSC63-SVQBL-27145-16	63	27	145	L	50	120	40	183	VBMT1604..	1.8
940.0556.092	PSC63-SVQBR-35175-16	63	35	175	R	63	151	50	213	VBMT1604..	2.9
940.0557.092	PSC63-SVQBL-35175-16	63	35	175	L	63	151	50	213	VBMT1604..	2.9

本产品柄部符合ISO 26623-1标准。

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括:锁紧螺钉、刀垫等必须品。

Standard Specification :Includes lever,retaining screws and base plate like other items

本厂支持非标准产品的订单制作。

Other designs and sizes are available on request

ACCESSORIES

配件



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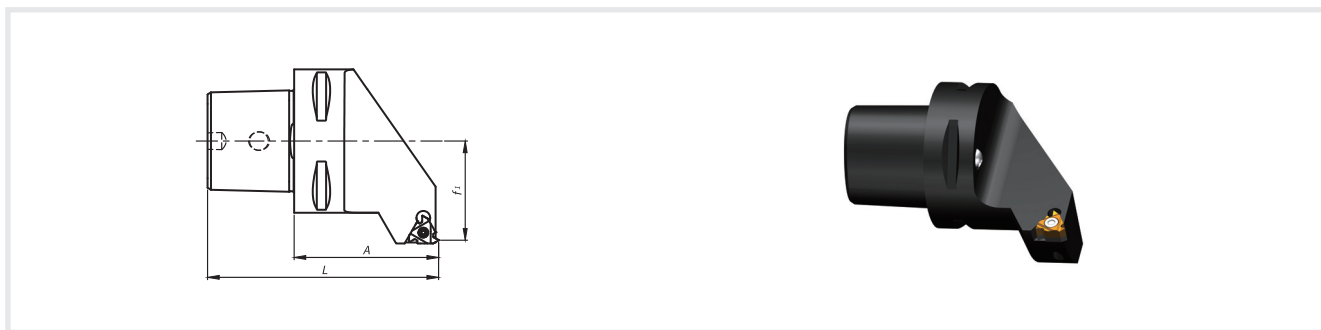
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螺钉夹紧式外螺纹车刀SER/L-I

External Thread Tools Holders of Clamping Screws



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0263.092	PSC50-SER-35060-16-I	50	35	60	R	90	Z16ER....	0.8
940.0264.092	PSC50-SEL-35060-16-I	50	35	60	L	90	Z16EL....	0.8
940.0265.092	PSC63-SER-45065-16-I	63	45	65	R	103	Z16ER....	1.4
940.0266.092	PSC63-SEL-45065-16-I	63	45	65	L	103	Z16EL....	1.4

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

ACCESSORIES

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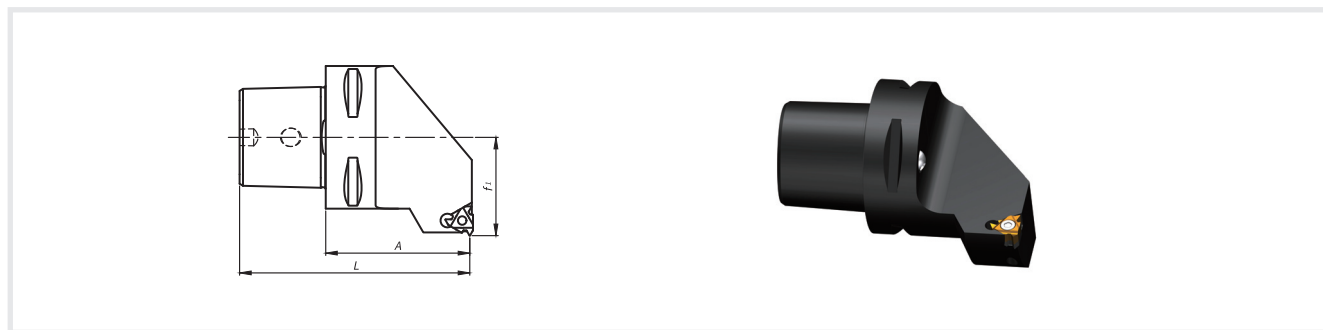
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螺钉夹紧式外螺纹车刀SER/L-II

External Thread Tools Holders of Clamping Screws



No.	Model	Size	f1	A	R/L	L	Blade	kg
940.0267.092	PSC50-SER-35060-16-II	50	35	60	R	90	Z16ER...	0.8
940.0268.092	PSC50-SEL-35060-16-II	50	35	60	L	90	Z16EL...	0.8
940.0269.092	PSC63-SER-45065-16-II	63	45	65	R	103	Z16ER...	1.4
940.0270.092	PSC63-SEL-45065-16-II	63	45	65	L	103	Z16EL...	1.4

本产品柄部符合ISO 26623-1标准。

Use: For holding PSC tools according to ISO 26623-1

出厂标准产品包括:锁紧螺钉、刀垫等必需品。

Standard Specification :Includes lever,retaining screws and base plate like other items

本厂支持非标准产品的订单制作。

Other designs and sizes are available on request

ACCESSORIES

配件



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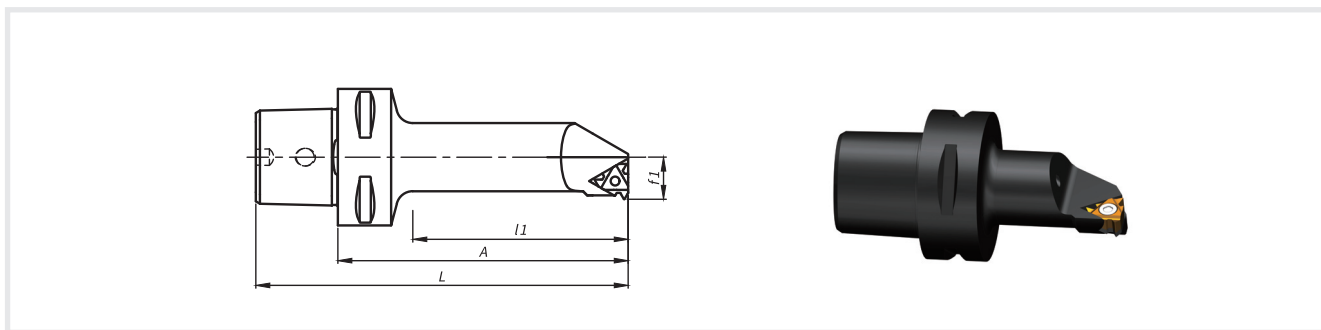


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螺钉夹紧式内螺纹车刀SIR/L

Internal Thread Tools of Clamping Screws



No.	Model	Size	f1	A	R/L		l1	d1	L	Blade	kg
940.0271.092	PSC50-SIR-22090-16	50	22	90	R	40	70	32	120	Z16IR....	0.7
940.0272.092	PSC50-SIL-22090-16	50	22	90	L	40	70	32	120	Z16IL....	0.7
940.0273.092	PSC50-SIR-27105-16	50	27	105	R	50	85	40	135	Z16IR....	0.9
940.0274.092	PSC50-SIL-27105-16	50	27	105	L	50	85	40	135	Z16IL....	0.9
940.0275.092	PSC63-SIR-22125-16	63	22	125	R	40	103	32	163	Z16IR....	1.1
940.0276.092	PSC63-SIL-22125-16	63	22	125	L	40	103	32	163	Z16IL....	1.1
940.0277.092	PSC63-SIR-27140-16	63	27	140	R	50	118	40	178	Z16IR....	1.4
940.0278.092	PSC63-SIL-27140-16	63	27	140	L	50	118	40	178	Z16IL....	1.4

本产品柄部符合ISO 26623-1标准。

出厂标准产品包括：锁紧螺钉、刀垫等必需品。

本厂支持非标准产品的订单制作。

Use: For holding PSC tools according to ISO 26623-1

Standard Specification :Includes lever,retaining screws and base plate like other items

Other designs and sizes are available on request

ACCESSORIES

配件

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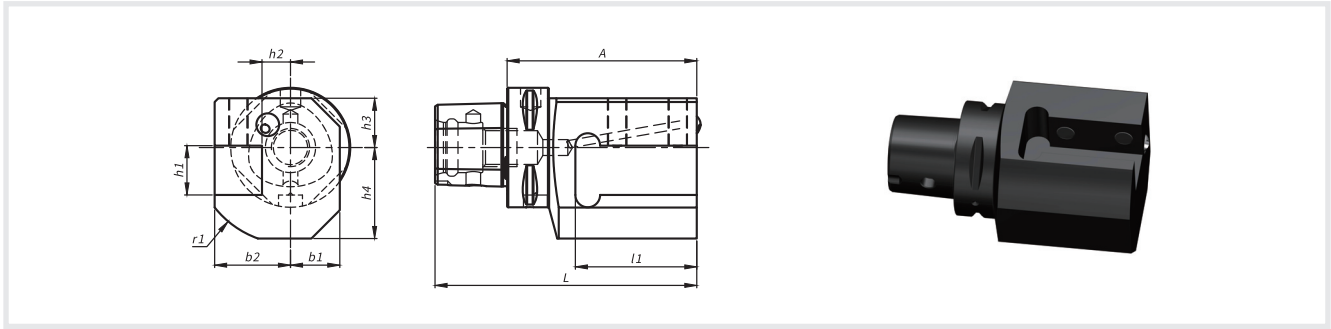
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PSC方刀杆转接柄(轴向安装)TS1R/L

Square Blade Adapter Handle for axial angle



No.	Model	Size	h1	A	R/L	r1	h2	h3	h4	l1	b1	b2	L	kg
586.0503.383	PSC50-TS1R-35080-20	50	20	80	R	45	15	26	43	53	26	35	110	2.8
586.0003.383	PSC50-TS1L-35080-20	50	20	80	L	45	15	26	43	53	26	35	110	2.8
586.0504.383	PSC50-TS1R-40090-25	50	25	90	R	51	15	26	48	64	26	40	120	4
586.0004.383	PSC50-TS1L-40090-25	50	25	90	L	51	15	26	48	64	26	40	120	4
586.0505.383	PSC50-TS1R-47115-32	50	32	115	R	61	15	26	55	90	26	47	145	7.4
586.0005.383	PSC50-TS1L-47115-32	50	32	115	L	61	15	26	55	90	26	47	145	7.4
586.0503.384	PSC63-TS1R-35090-20	63	20	90	R	45	15	26	43	53	26	35	128	3.5
586.0003.384	PSC63-TS1L-35090-20	63	20	90	L	45	15	26	43	53	26	35	128	3.5
940.0279.092	PSC63-TS1R-30100-20	63	20	100	R	45	10	26	43	75	26	30	138	3.2
940.0280.092	PSC63-TS1L-30100-20	63	20	100	L	45	10	26	43	75	26	30	138	3.2
586.0504.384	PSC63-TS1R-40100-25	63	25	100	R	51	15	26	48	64	26	40	138	4.7
586.0004.384	PSC63-TS1L-40100-25	63	25	100	L	51	15	26	48	64	26	40	138	4.7
940.0281.092	PSC63-TS1R-38130-25	63	25	130	R	51	13	26	48	102	26	38	168	6.3
940.0282.092	PSC63-TS1L-38130-25	63	25	130	L	51	13	26	48	102	26	38	168	6.3
586.0505.384	PSC63-TS1R-47125-32	63	32	125	R	61	15	26	55	90	26	47	163	8.3
586.0005.384	PSC63-TS1L-47125-32	63	32	125	L	61	15	26	55	90	26	47	163	8.3
586.0503.385	PSC80-TS1R-35090-20	80	20	90	R	45	15	26	43	53	26	35	138	4.1
586.0003.385	PSC80-TS1L-35090-20	80	20	90	L	45	15	26	43	53	26	35	138	4.1
586.0504.385	PSC80-TS1R-40100-25	80	25	100	R	51	15	26	48	64	26	40	148	5.3
586.0004.385	PSC80-TS1L-40100-25	80	25	100	L	51	15	26	48	64	26	40	148	5.3
586.0505.385	PSC80-TS1R-47125-32	80	32	125	R	61	15	26	55	90	26	47	173	8.7
586.0005.385	PSC80-TS1L-47125-32	80	32	125	L	61	15	26	55	90	26	47	173	8.7

使用方向:用于柄部为方型的车刀

出厂标准产品包括:夹紧螺钉和带螺纹的冷却套

注意:其他型号和尺寸可按订货要求制作。

Use:For ISO turning tools with square shank.

Standard Specification :Includes clamping screws and coolant nozzles with internal thread.

Note:Other designs and sizes are available on request.

ACCESSORIES

配件

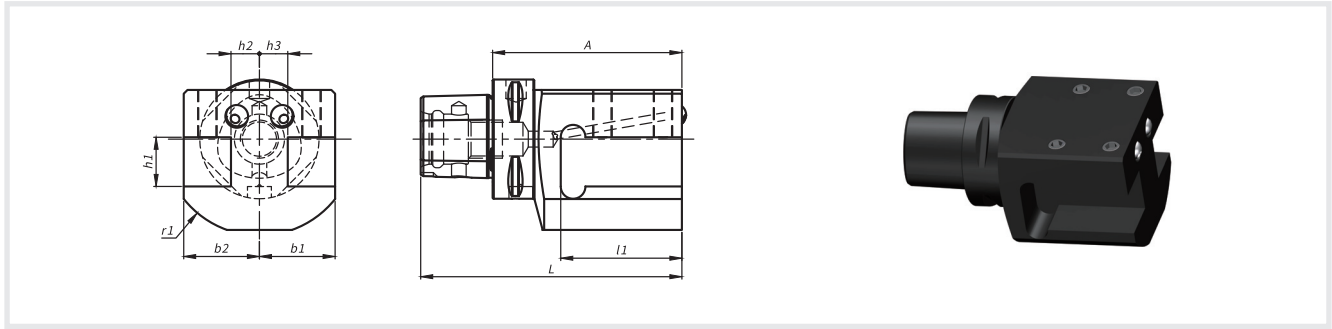


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PSC方刀杆转接柄(轴向安装)TS2

Square Blade Adapter Handle for axial angle



No.	Model	Size	h1	A	r1	h2	h3	b1	b2	L	kg
940.0401.092	PSC63-TS2-58115-32	63	32	115	70	33	33	58	58	153	7.5

使用方向:用于柄部为方型的车刀

Use:For ISO turning tools with square shank.

出厂标准产品包括:夹紧螺钉和带螺纹的冷却套

Standard Specification :Includes clamping screws and coolant nozzles with internal thread.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

配件



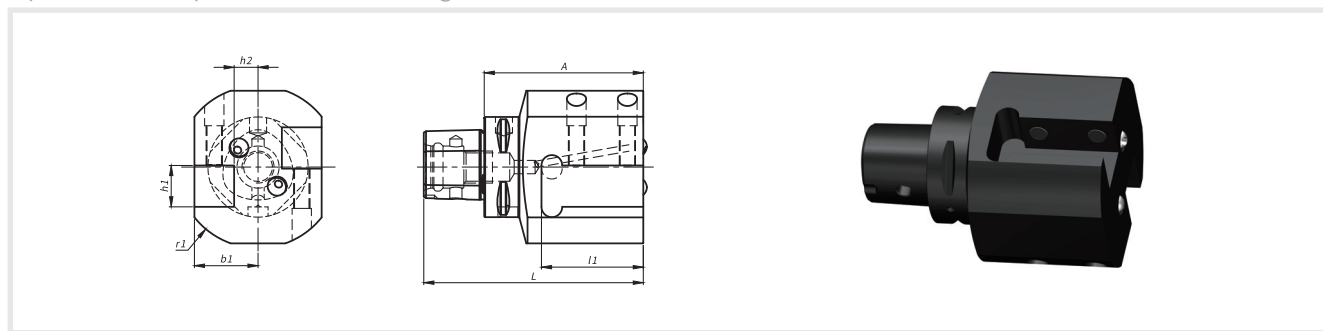
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PSC方刀杆转接柄(轴向安装)TS2R/L

Square Blade Adapter Handle for axial angle



No.	Model	Size	h1	A	R/L	r1	h2	l1	b1	L	kg
586.0203.383	PSC50-TS2R-35080-20	50	20	80	R	45	15	53	35	110	2.8
586.0103.383	PSC50-TS2L-35080-20	50	20	80	L	45	15	53	35	110	2.8
586.0204.383	PSC50-TS2R-40090-25	50	25	90	R	51	15	64	40	120	4
586.0104.383	PSC50-TS2L-40090-25	50	25	90	L	51	15	64	40	120	4
586.0205.383	PSC50-TS2R-47115-32	50	32	115	R	61	15	90	47	145	7.4
586.0105.383	PSC50-TS2L-47115-32	50	32	115	L	61	15	90	47	145	7.4
586.0203.384	PSC63-TS2R-35090-20	63	20	90	R	45	15	53	35	128	3.5
586.0103.384	PSC63-TS2L-35090-20	63	20	90	L	45	15	53	35	128	3.5
586.0204.384	PSC63-TS2R-40100-25	63	25	100	R	51	15	64	40	138	4.7
586.0104.384	PSC63-TS2L-40100-25	63	25	100	L	51	15	64	40	138	4.7
586.0205.384	PSC63-TS2R-47125-32	63	32	125	R	61	15	90	47	163	8.3
586.0105.384	PSC63-TS2L-47125-32	63	32	125	L	61	15	90	47	163	8.3
586.0203.385	PSC80-TS2R-35090-20	80	20	90	R	45	15	53	35	138	4.1
586.0103.385	PSC80-TS2L-35090-20	80	20	90	L	45	15	53	35	138	4.1
586.0204.385	PSC80-TS2R-40100-25	80	25	100	R	51	15	64	40	148	5.3
586.0104.385	PSC80-TS2L-40100-25	80	25	100	L	51	15	64	40	148	5.3
586.0205.385	PSC80-TS2R-47125-32	80	32	125	R	61	15	90	47	173	8.7
586.0105.385	PSC80-TS2L-47125-32	80	32	125	L	61	15	90	47	173	8.7

使用方向:用于柄部为方型的车刀

Use:For ISO turning tools with square shank.

出厂标准产品包括:夹紧螺钉和带螺纹的冷却套

Standard Specification :Includes clamping screws and coolant nozzles with internal thread.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

配件

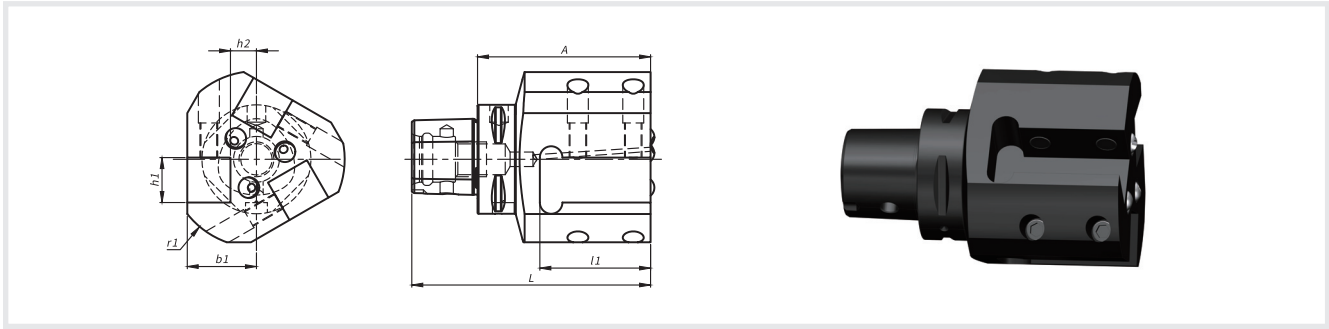


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PSC方刀杆转接柄(轴向安装)TS3R/L

Square Blade Adapter Handle for axial angle



No.	Model	Size	h1	A	R/L	r1	h2	l1	b1	L	kg
586.0303.383	PSC50-TS3R-35080-20	50	20	80	R	45	15	53	35	110	2.8
586.0403.383	PSC50-TS3L-35080-20	50	20	80	L	45	15	53	35	110	2.8
586.0304.383	PSC50-TS3R-40090-25	50	25	90	R	51	15	64	40	120	4
586.0404.383	PSC50-TS3L-40090-25	50	25	90	L	51	15	64	40	120	4
586.0305.383	PSC50-TS3R-47115-32	50	32	115	R	61	15	90	47	145	7.4
586.0405.383	PSC50-TS3L-47115-32	50	32	115	L	61	15	90	47	145	7.4
586.0303.384	PSC63-TS3R-35090-20	63	20	90	R	45	15	53	35	128	3.5
586.0403.384	PSC63-TS3L-35090-20	63	20	90	L	45	15	53	35	128	3.5
586.0304.384	PSC63-TS3R-40100-25	63	25	100	R	51	15	64	40	138	4.7
586.0404.384	PSC63-TS3L-40100-25	63	25	100	L	51	15	64	40	138	4.7
586.0305.384	PSC63-TS3R-47125-32	63	32	125	R	61	15	90	47	163	8.3
586.0405.384	PSC63-TS3L-47125-32	63	32	125	L	61	15	90	47	163	8.3
586.0303.385	PSC80-TS3R-35090-20	80	20	90	R	45	15	53	35	138	4.1
586.0403.385	PSC80-TS3L-35090-20	80	20	90	L	45	15	53	35	138	4.1
586.0304.385	PSC80-TS3R-40100-25	80	25	100	R	51	15	64	40	148	5.3
586.0404.385	PSC80-TS3L-40100-25	80	25	100	L	51	15	64	40	148	5.3
586.0305.385	PSC80-TS3R-47125-32	80	32	125	R	61	15	90	47	173	8.7
586.0405.385	PSC80-TS3L-47125-32	80	32	125	L	61	15	90	47	173	8.7

使用方向:用于柄部为方型的车刀

Use:For ISO turning tools with square shank.

出厂标准产品包括:夹紧螺钉和带螺纹的冷却套

Standard Specification :Includes clamping screws and coolant nozzles with internal thread.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

配件



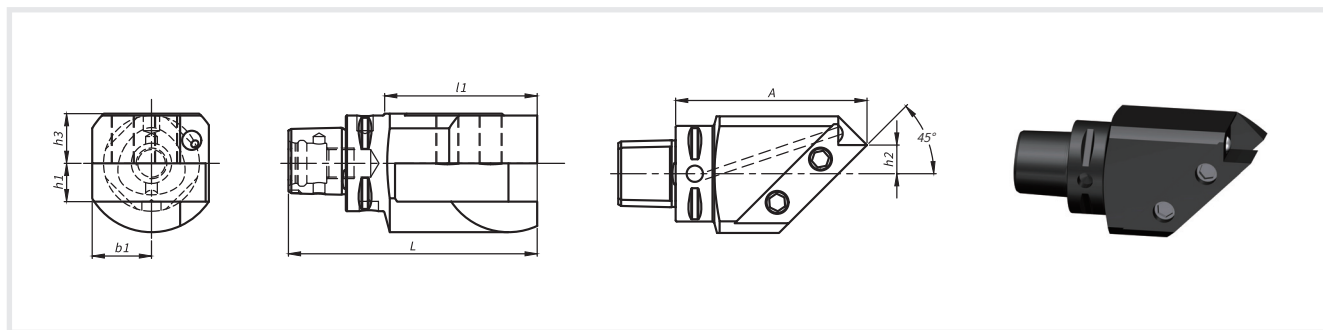
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PSC方刀杆转接柄(径向安装)TB45R/L

Square Blade Adapter Handle for radical angle



No.	Model	Size	h1	A	R/L	r1	h2	h3	l1	b1	L	kg
585.0003.383	PSC50-TB45R-31100-20	50	20	100	R	36	15	26	80	31	130	2.5
585.0103.383	PSC50-TB45L-31100-20	50	20	100	L	36	15	26	80	31	130	2.5
585.0003.384	PSC63-TB45R-32100-20	63	20	100	R	36	15	28	78	32	138	2.7
585.0103.384	PSC63-TB45L-32100-20	63	20	100	L	36	15	28	78	32	138	2.7
585.0005.385	PSC80-TB45R-45135-32	80	32	135	R	70	17	40	105	45	183	11.9
585.0105.385	PSC80-TB45L-45135-32	80	32	135	L	70	17	40	105	45	183	11.9

使用方向:用于柄部为方型的车刀

Use:For ISO turning tools with square shank.

出厂标准产品包括:夹紧螺钉和带螺纹的冷却套

Standard Specification :Includes clamping screws and coolant nozzles with internal thread.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

配件

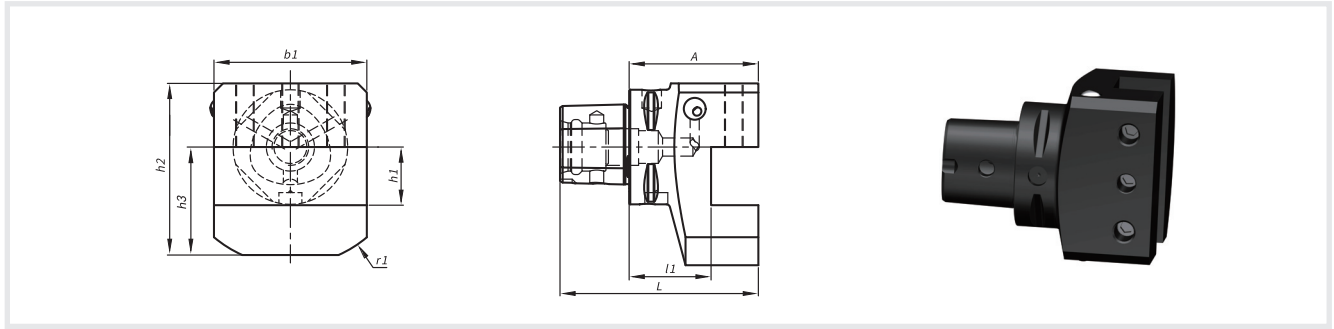


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PSC方刀杆转接柄(径向安装)TB1

Square Blade Adapter Handle for radical angle



No.	Model	Size	h1	A	r1	h2	h3	l1	b1	L	kg
587.0003.383	PSC50-TB1-35070-20	50	20	70	45	69	43	50	70	100	2.4
587.0004.383	PSC50-TB1-40080-25	50	25	80	51	74	48	55	80	110	3.5
587.0005.383	PSC50-TB1-45090-32	50	32	90	61	81	55	58	90	120	5.6
587.0003.384	PSC63-TB1-35080-20	63	20	80	45	69	43	60	70	118	3.1
587.0004.384	PSC63-TB1-40090-25	63	25	90	51	74	48	65	80	128	4.2
587.0005.384	PSC63-TB1-45100-32	63	32	100	61	81	55	68	90	138	6.5
587.0003.385	PSC80-TB1-35080-20	80	20	80	45	69	43	60	70	128	3.7
587.0004.385	PSC80-TB1-40090-25	80	25	90	51	74	48	65	80	138	4.8
587.0005.385	PSC80-TB1-45100-32	80	32	100	61	81	55	68	90	148	6.9

使用方向:用于柄部为方型的车刀

Use:For ISO turning tools with square shank.

出厂标准产品包括:夹紧螺钉和带螺纹的冷却套

Standard Specification :Includes clamping screws and coolant nozzles with internal thread.

注意:其他型号和尺寸可按订货要求制作。

Note:Other designs and sizes are available on request.

ACCESSORIES

配件



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Accessories and Spare Parts

Accessories

Spare Parts



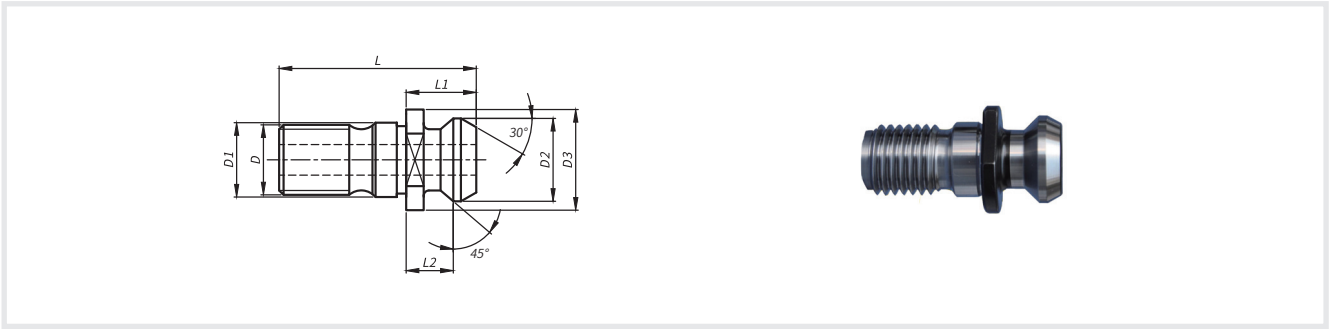
通用配件	Accessories	
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Accessories and Spare Parts

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过渡套	Taper Reduction Sleeves	294
精密莫氏变径套	Precision Morse Taper Reduction Sleeves	294
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可调夹头模块	iAdjusting module for chucks	298
热装变径杆	i-tec® Shrink-fit Chuck Extensions	300
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国际标准B型拉钉

Pull studs ISO 7388/2



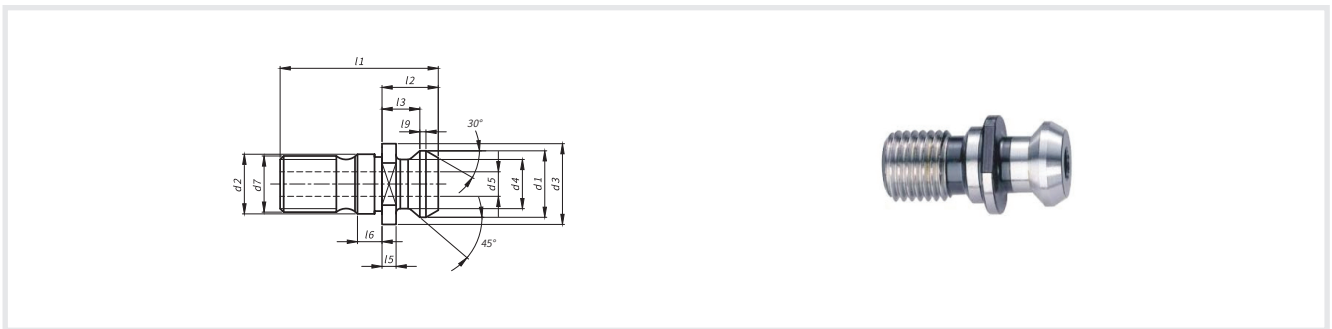
No.	Model	D	D1	D2	D3	L	L1	L2	kg
499.0012.293	LDB 30=MAS P30	M12	13	13.35	16.5	31.8	11.80	8.15	0.04
499.0011.292	LDB 40=MAS P40	M16	17	18.95	22.5	44.4	16.40	11.15	0.08
499.0010.291	LDB 50=MAS P50	M24	25	29.10	37.0	65.55	25.55	17.95	0.23
499.0009.290	LDB 60=MAS P60	M30	32	37.25	50.0	88.15	38.15	27.65	0.51

我们提供的此型号拉钉带冷却孔。

We supply the Pull Studs with bored through

Mazak 拉钉

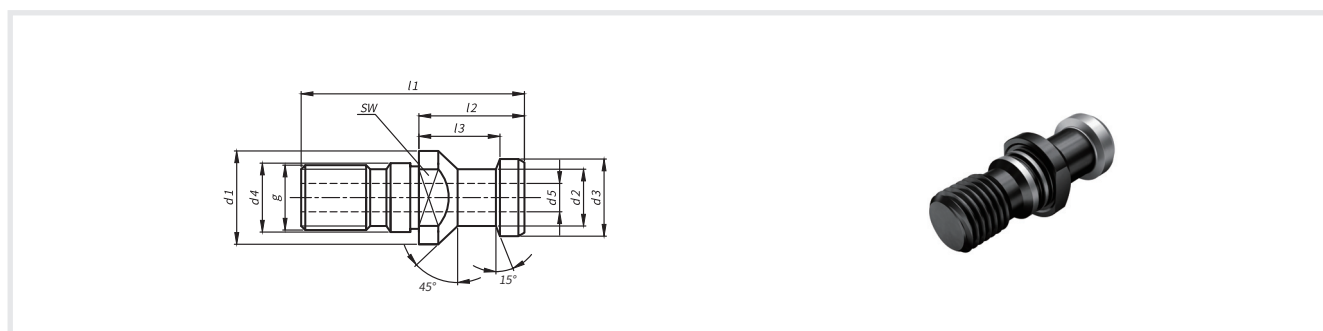
Mazak Serial Pull Stud



No.	Model	d1	d2	d3	d4	d5	d7	L1	L2	L3	L5	L6	L9	kg
499.6001.265	MAZAK-BT40	18.8	17	22	12.45	-	M16	44.1	19.1	14.02	3	5	1.52	0.06
499.6002.265	MAZAK-BT40/T	18.8	17	22	12.45	7	M16	44.1	19.1	14.02	3	5	1.52	0.05
499.6001.225	MAZAK-BT50	28.96	25	37	20.83	-	M24	65.2	25.2	17.58	5	8	2.54	0.23
499.6002.225	MAZAK-BT50/T	28.96	25	37	20.83	10	M24	65.2	25.2	17.58	5	8	2.54	0.19

拉钉DIN 69872 A型

Pull Studs DIN 69872 Type A



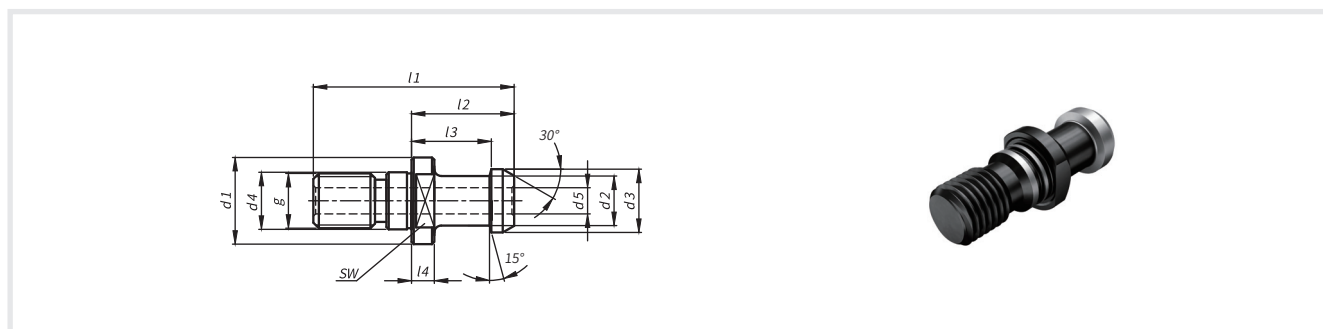
No.	Model	d1	d2	d3	d4	d5	l1	l2	l3	SW	g	kg
499.0001.293	D30	17	9	13	13	-	44	24	19	14	M12	0.05
499.0001.292	D40	23	14	19	17	7	54	26	20	19	M16	0.07
499.0001.291	D50	36	21	28	25	11.5	74	34	25	30	M24	0.21
499.0001.290	D60	52	30	40	32	14	90	40	30	46	M30	0.51

我们提供的此型号拉钉带冷却孔,并且它可以代替 ISO7388-3:2007 AD螺钉

We supply the Pull Studs with bored through. And it could replace the Pull Studs ISO7388-3:2007 AD

JIS B 6339 型拉钉

Put Studs MAS



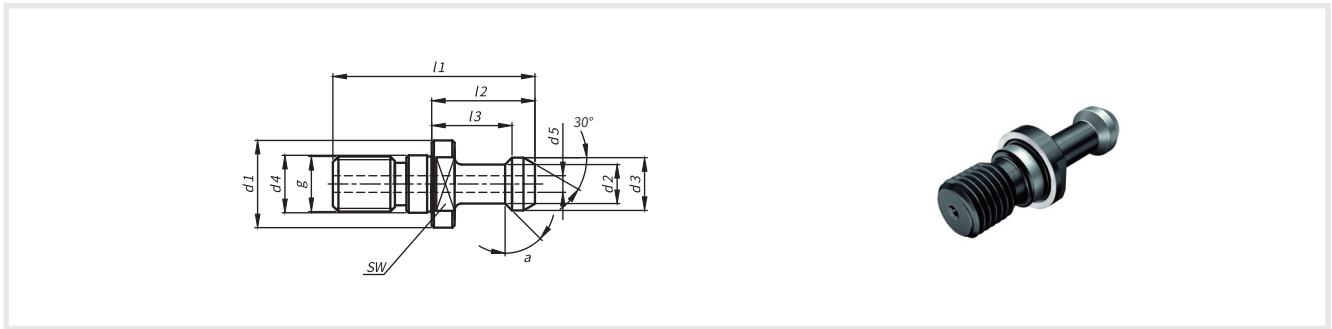
No.	Model	d1	d2	d3	d4	d5	l1	l2	l3	l4	SW	g	kg
499.0007.293	D30=DIN P30	16.5	8	12	12.5	-	43	23.4	18.4	5	13	M12	0.04
499.0007.265	D40=DIN P40	23	14	19	17	7	54	29	23	7	19	M16	0.08
499.0007.225	D50=DIN P50	38	21	28	25	10	74	34	25	7	30	M24	0.22
499.0007.290	D60=DIN P60	48	27	36	31	12	98	48	36	11	41	M30	0.52

我们提供的此型号拉钉带冷却孔,并且它可以代替 ISO7388标准A型螺钉.

We supply the Pull Studs with bored through. And it could replace the Pull Studs ISO7388.

MAS拉钉

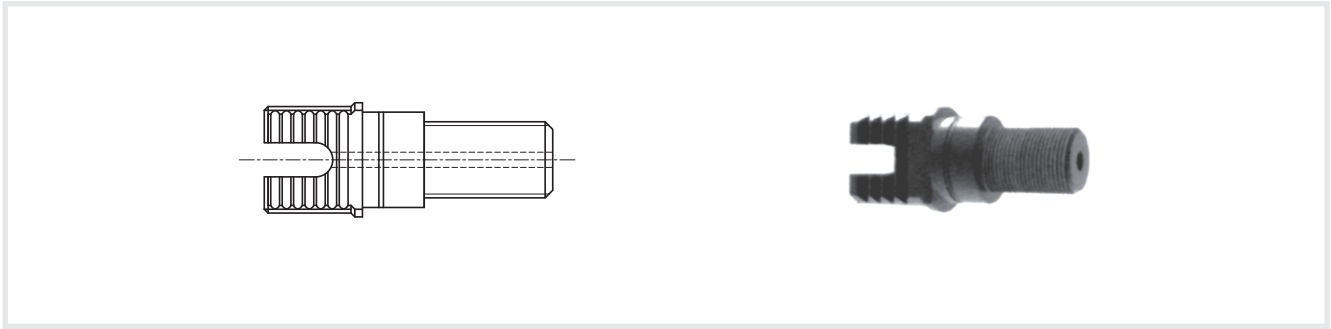
Pull Studs MAS



No.	Model	d1	d2	d3	d4	d5	l1	l2	l3	a	SW	g	kg
499.0011.293	P30TI	16.5	7	11	12.5	-	43	23	18	45°	13	M12	0.02
499.0021.293	P30TI-JD	16.5	7	11	12.5	2.5	43	23	18	45°	13	M12	0.02
499.0010.293	P30TII	16.5	7	11	12.5	-	43	23	18	60°	13	M12	0.02
499.0020.293	P30TII-JD	16.5	7	11	12.5	2.5	43	23	18	60°	13	M12	0.02
499.0006.293	P30TIII	16.5	7	11	12.5	-	43	23	18	90°	13	M12	0.02
499.0016.293	P30TIII-JD	16.5	7	11	12.5	2.5	43	23	18	90°	13	M12	0.02
499.0001.265	P40TI	23	10	15	17	-	60	35	28	45°	19	M16	0.08
499.0011.265	P40TI-JD	23	10	15	17	4	60	35	28	45°	19	M16	0.08
499.0002.265	P40TII	23	10	15	17	-	60	35	28	60°	19	M16	0.08
499.0012.265	P40TII-JD	23	10	15	17	4	60	35	28	60°	19	M16	0.08
499.0006.265	P40TIII	23	10	15	17	-	60	35	28	90°	19	M16	0.08
499.0016.265	P40TIII-JD	23	10	15	17	4	60	35	28	90°	19	M16	0.08
499.0002.225	P50TI	38	17	23	25	-	85	45	35	45°	30	M24	0.28
499.0012.225	P50TI-JD	38	17	23	25	8.5	85	45	35	45°	30	M24	0.28
499.0005.225	P50TII	38	17	23	25	-	85	45	35	60°	30	M24	0.28
499.0015.225	P50TII-JD	38	17	23	25	8.5	85	45	35	60°	30	M24	0.28
499.0006.225	P50TIII	38	17	23	25	-	85	45	35	90°	30	M24	0.28
499.0016.225	P50TIII-JD	38	17	23	25	8.5	85	45	35	90°	30	M24	0.28
499.0008.290	P60TI	56	24	32	31	-	115	65	53	45°	46	M30	0.52
499.0018.290	P60TI-JD	56	24	32	31	12	115	65	53	45°	46	M30	0.52
499.0005.290	P60TII	56	24	32	31	-	115	65	53	60°	46	M30	0.52
499.0015.290	P60TII-JD	56	24	32	31	12	115	65	53	60°	46	M30	0.52

PSC柄锁紧螺栓

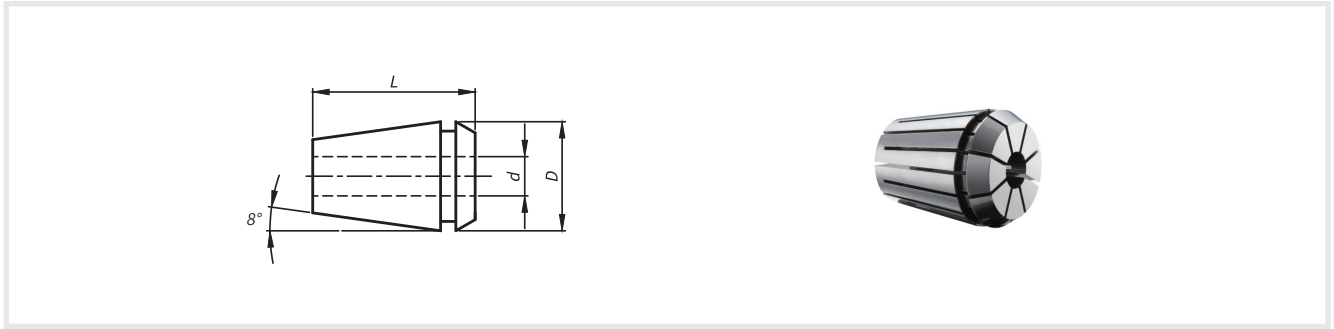
Screws for Turning Tool Holders of PSC



No.	Model	Size	for
499.0001.381	LB-PSC32	32	706.../707.../716.../316...
499.0001.382	LB-PSC40	40	706.../707.../716.../316...
499.0001.383	LB-PSC50	50	706.../707.../716.../316...
499.0001.384	LB-PSC63	63	706.../707.../716.../316...
499.0001.385	LB-PSC80	80	706.../707.../716.../316...

符合ISO 15488(DIN 6499)的ER夹簧(高精度/普通级)

ER-Collets according to DIN ISO 15488(DIN 6499)



No.	Precision Model	No.	Normal Model	d	D	L
153.0201	ER11-1.0P	153.201	ER11-1.0	1-0.5	11.5	18
153.0208	ER11-1.5P	153.208	ER11-1.5	1.5-1	11.5	18
153.0202	ER11-2.0P	153.202	ER11-2.0	2-1.5	11.5	18
153.0209	ER11-2.5P	153.209	ER11-2.5	2.5-2	11.5	18
153.0203	ER11-3.0P	153.203	ER11-3.0	3-2.5	11.5	18
153.0210	ER11-3.5P	153.210	ER11-3.5	3.5-3	11.5	18
153.0204	ER11-4.0P	153.204	ER11-4.0	4-3.5	11.5	18
153.0211	ER11-4.5P	153.211	ER11-4.5	4.5-4	11.5	18
153.0205	ER11-5.0P	153.205	ER11-5.0	5-4.5	11.5	18
153.0212	ER11-5.5P	153.212	ER11-5.5	5.5-5	11.5	18
153.0206	ER11-6.0P	153.206	ER11-6.0	6-5.5	11.5	18
153.0213	ER11-6.5P	153.213	ER11-6.5	6.5-6	11.5	18
153.0207	ER11-7.0P	153.207	ER11-7.0	7-6.5	11.5	18
153.0301	ER16-1.0P	153.301	ER16-1.0	1-0.5	17	27
153.0302	ER16-2.0P	153.302	ER16-2.0	2-1	17	27
153.0303	ER16-3.0P	153.303	ER16-3.0	3-2	17	27
153.0304	ER16-4.0P	153.304	ER16-4.0	4-3	17	27
153.0305	ER16-5.0P	153.305	ER16-5.0	5-4	17	27
153.0306	ER16-6.0P	153.306	ER16-6.0	6-5	17	27
153.0307	ER16-7.0P	153.307	ER16-7.0	7-6	17	27
153.0308	ER16-8.0P	153.308	ER16-8.0	8-7	17	27
153.0309	ER16-9.0P	153.309	ER16-9.0	9-8	17	27
153.0310	ER16-10.0P	153.310	ER16-10.0	10-9	17	27
153.0101	ER20-1.0P	153.101	ER20-1.0	1-0.5	21	32
153.0102	ER20-2.0P	153.102	ER20-2.0	2-1	21	32
153.0103	ER20-3.0P	153.103	ER20-3.0	3-2	21	32
153.0104	ER20-4.0P	153.104	ER20-4.0	4-3	21	32
153.0105	ER20-5.0P	153.105	ER20-5.0	5-4	21	32
153.0106	ER20-6.0P	153.106	ER20-6.0	6-5	21	32
153.0107	ER20-7.0P	153.107	ER20-7.0	7-6	21	32
153.0108	ER20-8.0P	153.108	ER20-8.0	8-7	21	32
153.0109	ER20-9.0P	153.109	ER20-9.0	9-8	21	32
153.0110	ER20-10.0P	153.110	ER20-10.0	10-9	21	32
153.0111	ER20-11.0P	153.111	ER20-11.0	11-10	21	32
153.0112	ER20-12.0P	153.112	ER20-12.0	12-11	21	32
153.0113	ER20-13.0P	153.113	ER20-13.0	13-12	21	32

No.	Precision Model	No.	Normal Model	d	D	L
153.0252	ER25-2.0P	153.252	ER25-2.0	2-1	26	34
153.0253	ER25-3.0P	153.253	ER25-3.0	3-2	26	34
153.0254	ER25-4.0P	153.254	ER25-4.0	4-3	26	34
153.0255	ER25-5.0P	153.255	ER25-5.0	5-4	26	34
153.0256	ER25-6.0P	153.256	ER25-6.0	6-5	26	34
153.0257	ER25-7.0P	153.257	ER25-7.0	7-6	26	34
153.0258	ER25-8.0P	153.258	ER25-8.0	8-7	26	34
153.0259	ER25-9.0P	153.259	ER25-9.0	9-8	26	34
153.0260	ER25-10.0P	153.260	ER25-10.0	10-9	26	34
153.0261	ER25-11.0P	153.261	ER25-11.0	11-10	26	34
153.0262	ER25-12.0P	153.262	ER25-12.0	12-11	26	34
153.0263	ER25-13.0P	153.263	ER25-13.0	13-12	26	34
153.0264	ER25-14.0P	153.264	ER25-14.0	14-13	26	34
153.0265	ER25-15.0P	153.265	ER25-15.0	15-14	26	34
153.0266	ER25-16.0P	153.266	ER25-16.0	16-15	26	34
153.0403	ER32-3.0P	153.403	ER32-3.0	3-2	33	40
153.0404	ER32-4.0P	153.404	ER32-4.0	4-3	33	40
153.0405	ER32-5.0P	153.405	ER32-5.0	5-4	33	40
153.0406	ER32-6.0P	153.406	ER32-6.0	6-5	33	40
153.0407	ER32-7.0P	153.407	ER32-7.0	7-6	33	40
153.0408	ER32-8.0P	153.408	ER32-8.0	8-7	33	40
153.0409	ER32-9.0P	153.409	ER32-9.0	9-8	33	40
153.0410	ER32-10.0P	153.410	ER32-10.0	10-9	33	40
153.0411	ER32-11.0P	153.411	ER32-11.0	11-10	33	40
153.0412	ER32-12.0P	153.412	ER32-12.0	12-11	33	40
153.0413	ER32-13.0P	153.413	ER32-13.0	13-12	33	40
153.0414	ER32-14.0P	153.414	ER32-14.0	14-13	33	40
153.0415	ER32-15.0P	153.415	ER32-15.0	15-14	33	40
153.0416	ER32-16.0P	153.416	ER32-16.0	16-15	33	40
153.0417	ER32-17.0P	153.417	ER32-17.0	17-16	33	40
153.0418	ER32-18.0P	153.418	ER32-18.0	18-17	33	40
153.0419	ER32-19.0P	153.419	ER32-19.0	19-18	33	40
153.0420	ER32-20.0P	153.420	ER32-20.0	20-19	33	40
153.0504	ER40-4.0P	153.504	ER40-4.0	4-3	41	46
153.0505	ER40-5.0P	153.505	ER40-5.0	5-4	41	46
153.0506	ER40-6.0P	153.506	ER40-6.0	6-5	41	46
153.0507	ER40-7.0P	153.507	ER40-7.0	7-6	41	46
153.0508	ER40-8.0P	153.508	ER40-8.0	8-7	41	46
153.0509	ER40-9.0P	153.509	ER40-9.0	9-8	41	46
153.0510	ER40-10.0P	153.510	ER40-10.0	10-9	41	46
153.0511	ER40-11.0P	153.511	ER40-11.0	11-10	41	46
153.0512	ER40-12.0P	153.512	ER40-12.0	12-11	41	46
153.0513	ER40-13.0P	153.513	ER40-13.0	13-12	41	46
153.0514	ER40-14.0P	153.514	ER40-14.0	14-13	41	46
153.0515	ER40-15.0P	153.515	ER40-15.0	15-14	41	46
153.0516	ER40-16.0P	153.516	ER40-16.0	16-15	41	46
153.0517	ER40-17.0P	153.517	ER40-17.0	17-16	41	46
153.0518	ER40-18.0P	153.518	ER40-18.0	18-17	41	46

No.	Precision Model	No.	Normal Model	d	D	L
153.0519	ER40-19.0P	153.519	ER40-19.0	19-18	41	46
153.0520	ER40-20.0P	153.520	ER40-20.0	20-19	41	46
153.0521	ER40-21.0P	153.521	ER40-21.0	21-20	41	46
153.0522	ER40-22.0P	153.522	ER40-22.0	22-21	41	46
153.0523	ER40-23.0P	153.523	ER40-23.0	23-22	41	46
153.0524	ER40-24.0P	153.524	ER40-24.0	24-23	41	46
153.0525	ER40-25.0P	153.525	ER40-25.0	25-24	41	46
153.0526	ER40-26.0P	153.526	ER40-26.0	26-25	41	46

设计:

①表面硬化和磨制。

材料:弹簧钢。

②普通级夹簧内径跳动小于0.01mm

③高精度夹簧内径跳动小于0.005mm

Design:

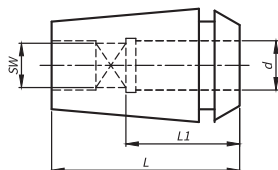
① Surface hardening and grinding. Material: spring steel.

② The inner diameter beating of ordinary grade clamp spring is less than 0.01mm

③ The inner diameter of the spring is less than 0.005mm

刚性攻丝夹簧

ER-Collets for Rigid tapping



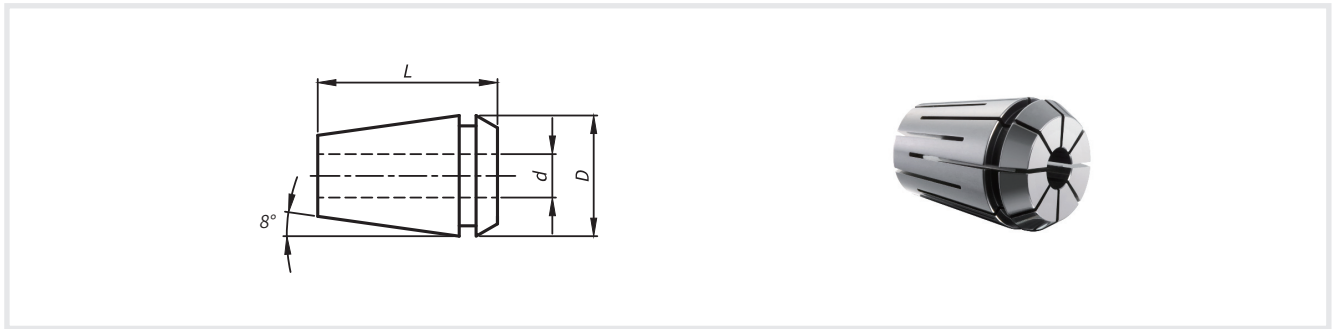
No.	Model	d	SW	L1	L
442.501	ER16-2.24x1.8H	2.24	1.8	15	27
442.502	ER16-3.15x2.5H	3.15	2.5	16	27
442.219	ER16-4.0x3.0H	4	3	17	27
442.220	ER16-4.0x3.15H	4	3.15	17	27
442.221	ER16-5.0x4.0H	5	4	17	27
442.222	ER16-6.0x4.9H	6	4.9	18	27
442.223	ER16-6.3x5.0H	6.3	5	18	27
442.224	ER16-7.1x5.6H	7.1	5.6	18	27
442.225	ER16-8.0x6.3H	8	6.3	18	27
442.226	ER16-9.0x7.1H	9	7.1	20	27
442.503	ER20-2.24x1.8H	2.24	1.8	15	32
442.504	ER20-3.15x2.5H	3.15	2.5	16	32
442.227	ER20-4.0x3.15H	4	3.15	18	32
442.228	ER20-5.0x4.0H	5	4	18	32
442.229	ER20-6.0x4.9H	6	4.9	18	32
442.230	ER20-6.3x5.0H	6.3	5	20	32
442.231	ER20-7.1x5.6H	7.1	5.6	20	32
442.232	ER20-8.0x6.3H	8	6.3	20	32
442.233	ER20-9.0x7.1H	9	7.1	20	32
442.234	ER20-10.0x8.0H	10	8	20	32
442.235	ER20-11.0x9.0H	11	9	23.5	32
442.505	ER20-11.2x9.0H	11.2	9	23	34
442.236	ER20-12.0x9.0H	12	9	23.5	32
442.506	ER20-12.5x10.0H	12.5	10	23	34
442.507	ER25-2.24x1.8H	2.24	1.8	15	34
442.508	ER25-3.15x2.5H	3.15	2.5	16	34
442.237	ER25-4.0x3.0H	4	3	20	34
442.238	ER25-4.0x3.15H	4	3.15	20	34
442.239	ER25-5.0x4.0H	5	4	20	34
442.240	ER25-6.0x4.9H	6	4.9	20	34
442.241	ER25-6.3x5.0H	6.3	5	22	34
442.242	ER25-7.1x5.6H	7.1	5.6	22	34
442.243	ER25-8.0x6.3H	8	6.3	23	34
442.244	ER25-9.0x7.1H	9	7.1	23	34
442.245	ER25-10.0x8.0H	10	8	23	34
442.246	ER25-11.0x9.0H	11	9	23	34

No.	Model	d	SW	L1	L
442.509	ER25-11.2x9.0H	11.2	9	23	34
442.247	ER25-12.0x9.0H	12	9	23	34
442.510	ER25-12.5x10.0H	12.5	10	23	34
442.248	ER25-14.0x11.2H	14	11.2	25	34
442.249	ER25-15.0x12.0H	15	12	25	34
442.250	ER25-16.0x12.0H	16	12	25	34
442.511	ER25-16.0x12.5H	16	12.5	25	34
442.512	ER32-3.15x2.5H	3.15	2.5	16	34
442.251	ER32-4.0x3.0H	4	3	20	40
442.252	ER32-4.0x3.15H	4	3.15	20	40
442.253	ER32-5.0x4.0H	5	4	20	40
442.254	ER32-6.0x4.9H	6	4.9	20	40
442.255	ER32-6.3x5.0H	6.3	5	22	40
442.256	ER32-7.1x5.6H	7.1	5.6	22	40
442.257	ER32-8.0x6.3H	8	6.3	25	40
442.258	ER32-9.0x7.1H	9	7.1	25	40
442.259	ER32-10.0x8H	10	8	25	40
442.260	ER32-11.0x9.0H	11	9	25	40
442.513	ER32-11.2x9.0H	11.2	9	23	34
442.261	ER32-12.0x9.0H	12	9	25	40
442.514	ER32-12.5x10.0H	12.5	10	23	34
442.262	ER32-14.0x11.2H	14	11.2	25	40
442.263	ER32-15.0x12.0H	15	12	25	40
442.264	ER32-16.0x12.0H	16	12	25	40
442.515	ER32-16.0x12.5H	16	12.5	25	34
442.265	ER32-17.0x13.0H	17	13	25	40
442.266	ER32-18.0x14.0H	18	14	25	40
442.267	ER32-18.0x14.5H	18	14.5	25	40
442.268	ER32-20.0x16.0H	20	16	28	40
442.269	ER40-4.0x3.0H	4	3	21	46
442.270	ER40-4.0x3.15H	4	3.15	21	46
442.271	ER40-5.0x4.0H	5	4	21	46
442.272	ER40-6.0x4.9H	6	4.9	21	46
442.273	ER40-6.3x5.0H	6.3	5	22	46
442.274	ER40-7.1x5.6H	7.1	5.6	22	46
442.275	ER40-8.0x6.3H	8	6.3	27	46
442.276	ER40-9.0x7.1H	9	7.1	27	46
442.277	ER40-10.0x8.0H	10	8	27	46
442.278	ER40-11.0x9.0H	11	9	27	46
442.516	ER40-11.2x9.0H	11.2	9	23	34
442.279	ER40-12.0x9.0H	12	9	27	46
442.517	ER32-12.5x10.0H	12.5	10	23	34
442.280	ER40-14.0x11.2H	14	11.2	28	46
442.281	ER40-15.0x12.0H	15	12	28	46
442.282	ER40-16.0x12.0H	16	12	28	46
442.518	ER32-16.0x12.5H	16	12.5	25	34
442.283	ER40-17.0x13.0H	17	13	28	46
442.284	ER40-18.0x14.0H	18	14	28	46

No.	Model	d	SW	L1	L
442.285	ER40-18.0x14.5H	18	14.5	28	46
442.286	ER40-20.0x16.0H	20	16	28	46
442.287	ER40-22.4x18.0H	22.4	18	32	46
442.288	ER40-25.0x20.0H	25	20	32	46

机械式密封ER夹簧

ER-Collets for Mechanical seal

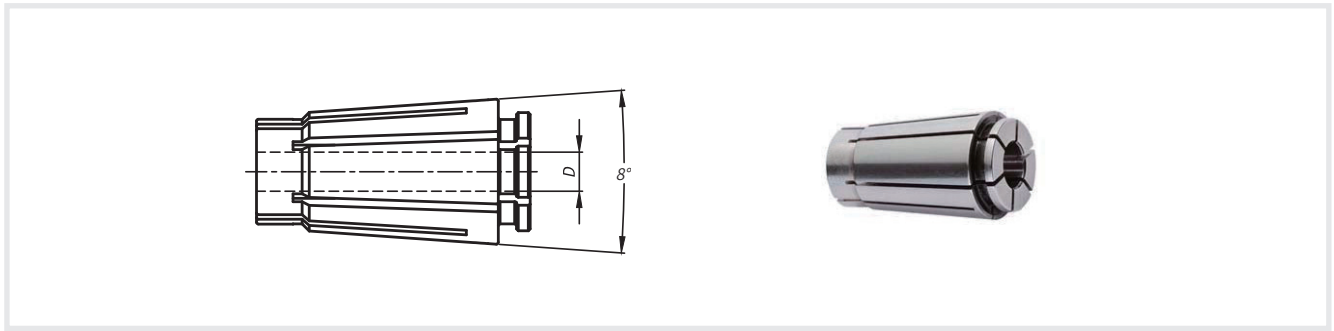


No.	Model	d	D	L
442.289	ER16-3.0S	3—2	17	27
442.290	ER16-4.0S	4—3	17	27
442.291	ER16-5.0S	5—4	17	27
442.292	ER16-6.0S	6—5	17	27
442.293	ER16-7.0S	7—6	17	27
442.294	ER16-8.0S	8—7	17	27
442.295	ER16-9.0S	9—8	17	27
442.296	ER16-10.0S	10—9	17	27
442.297	ER20-1.0S	1—0.5	21	32
442.298	ER20-2.0S	2—1	21	32
442.299	ER20-3.0S	3—2	21	32
442.300	ER20-4.0S	4—3	21	32
442.301	ER20-5.0S	5—4	21	32
442.302	ER20-6.0S	6—5	21	32
442.303	ER20-7.0S	7—6	21	32
442.304	ER20-8.0S	8—7	21	32
442.305	ER20-9.0S	9—8	21	32
442.306	ER20-10.0S	10—9	21	32
442.307	ER20-11.0S	11—10	21	32
442.308	ER20-12.0S	12—11	21	32
442.309	ER20-13.0S	13—12	21	32
442.310	ER25-2.0S	2—1	26	34
442.311	ER25-3.0S	3—2	26	34
442.312	ER25-4.0S	4—3	26	34
442.313	ER25-5.0S	5—4	26	34
442.314	ER25-6.0S	6—5	26	34
442.315	ER25-7.0S	7—6	26	34
442.316	ER25-8.0S	8—7	26	34
442.317	ER25-9.0S	9—8	26	34
442.318	ER25-10.0S	10—9	26	34
442.319	ER25-11.0S	11—10	26	34
442.320	ER25-12.0S	12—11	26	34
442.321	ER25-13.0S	13—12	26	34
442.322	ER25-14.0S	14—13	26	34
442.323	ER25-15.0S	15—14	26	34
442.324	ER25-16.0S	16—15	26	34

No.	Model	d	D	L
442.325	ER32-3.0S	3—2	33	40
442.326	ER32-4.0S	4—3	33	40
442.327	ER32-5.0S	5—4	33	40
442.328	ER32-6.0S	6—5	33	40
442.329	ER32-7.0S	7—6	33	40
442.330	ER32-8.0S	8—7	33	40
442.331	ER32-9.0S	9—8	33	40
442.332	ER32-10.0S	10—9	33	40
442.333	ER32-11.0S	11—10	33	40
442.334	ER32-12.0S	12—11	33	40
442.335	ER32-13.0S	13—12	33	40
442.336	ER32-14.0S	14—13	33	40
442.337	ER32-15.0S	15—14	33	40
442.338	ER32-16.0S	16—15	33	40
442.339	ER32-17.0S	17—16	33	40
442.340	ER32-18.0S	18—17	33	40
442.341	ER32-19.0S	19—18	33	40
442.342	ER32-20.0S	20—19	33	40
442.343	ER40-4.0S	4—3	41	46
442.344	ER40-5.0S	5—4	41	46
442.345	ER40-6.0S	6—5	41	46
442.346	ER40-7.0S	7—6	41	46
442.347	ER40-8.0S	8—7	41	46
442.348	ER40-9.0S	9—8	41	46
442.349	ER40-10.0S	10—9	41	46
442.350	ER40-11.0S	11—10	41	46
442.351	ER40-12.0S	12—11	41	46
442.352	ER40-13.0S	13—12	41	46
442.353	ER40-14.0S	14—13	41	46
442.354	ER40-15.0S	15—14	41	46
442.355	ER40-16.0S	16—15	41	46
442.356	ER40-17.0S	17—16	41	46
442.357	ER40-18.0S	18—17	41	46
442.358	ER40-19.0S	19—18	41	46
442.359	ER40-20.0S	20—19	41	46
442.360	ER40-21.0S	21—20	41	46
442.361	ER40-22.0S	22—21	41	46
442.362	ER40-23.0S	23—22	41	46
442.363	ER40-24.0S	24—23	41	46
442.364	ER40-25.0S	25—24	41	46
442.365	ER40-26.0S	26—25	41	46

注:订货时请确认丝锥柄径和方尾尺寸,其他型号和尺寸可按订货要求制作。

Note: Please confirm the screw handle diameter and square tail size when ordering, and other models and sizes can be made according to the ordering requirements.

GSK夹簧
 GSK-Collets


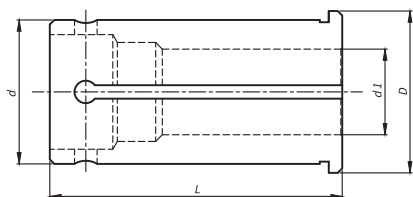
No.	Model	D
442.101	GSK6-3.0	2.75-3.0
442.102	GSK6-3.5	3.0-3.5
442.103	GSK6-4.0	3.5-4.0
442.104	GSK6-4.5	4.0-4.5
442.105	GSK6-5.0	4.5-5.0
442.106	GSK6-5.5	5.0-5.5
442.107	GSK6-6.0	5.5-6.0
442.108	GSK10-2.0	1.75-2.0
442.109	GSK10-2.25	2.0-2.25
442.110	GSK10-2.5	2.25-2.5
442.111	GSK10-2.75	2.5-2.75
442.112	GSK10-3.0	2.75-3.0
442.113	GSK10-3.5	3.0-3.5
442.114	GSK10-4.0	3.5-4.0
442.115	GSK10-4.5	4.0-4.5
442.116	GSK10-5.0	4.5-5.0
442.117	GSK10-5.5	5.0-5.5
442.118	GSK10-6.0	5.5-6.0
442.119	GSK10-6.5	6.0-6.5
442.120	GSK10-7.0	6.5-7.0
442.121	GSK10-7.5	7.0-7.5
442.122	GSK10-8.0	7.5-8.0
442.123	GSK10-8.5	8.0-8.5
442.124	GSK10-9.0	8.5-9.0
442.125	GSK10-9.5	9.0-9.5
442.126	GSK10-10.0	9.5-10.5
442.400	GSK13-3.0	2.75-3.0
442.401	GSK13-3.5	3.0-3.5
442.402	GSK13-4.0	3.5-4.0
442.403	GSK13-4.5	4.0-4.5
442.404	GSK13-5.0	4.5-5.0
442.405	GSK13-5.5	5.0-5.5
442.406	GSK13-6.0	5.5-6.0
442.407	GSK13-6.5	6.0-6.5
442.408	GSK13-7.0	6.5-7.0
442.409	GSK13-7.5	7.0-7.5

No.	Model	D
442.410	GSK13-8.0	7.5-8.0
442.411	GSK13-8.5	8.0-8.5
442.412	GSK13-9.0	8.5-9.0
442.413	GSK13-9.5	9.0-9.5
442.414	GSK13-10.0	9.5-10.0
442.415	GSK13-10.5	10.0-10.5
442.416	GSK13-11.0	10.5-11.0
442.417	GSK13-11.5	11-11.5
442.418	GSK13-12.0	11.5-12.0
442.419	GSK13-12.5	12.0-12.5
442.420	GSK13-13.0	12.5-13.0
442.127	GSK16-3.0	2.75-3.0
442.128	GSK16-3.5	3.0-3.5
442.129	GSK16-4.0	3.5-4.0
442.130	GSK16-4.5	4.0-4.5
442.131	GSK16-5.0	4.5-5.0
442.132	GSK16-5.5	5.0-5.5
442.133	GSK16-6.0	5.5-6.0
442.134	GSK16-6.5	6.0-6.5
442.135	GSK16-7.0	6.5-7.0
442.136	GSK16-7.5	7.0-7.5
442.137	GSK16-8.0	7.5-8.0
442.138	GSK16-8.5	8.0-8.5
442.139	GSK16-9.0	8.5-9.0
442.140	GSK16-9.5	9.0-9.5
442.141	GSK16-10.0	9.5-10.0
442.142	GSK16-10.5	10.0-10.5
442.143	GSK16-11.0	10.5-11.0
442.144	GSK16-11.5	11-11.5
442.145	GSK16-12.0	11.5-12.0
442.146	GSK16-12.5	12.0-12.5
442.147	GSK16-13.0	12.5-13.0
442.148	GSK16-13.5	13.0-13.5
442.149	GSK16-14.0	13.5-14.0
442.150	GSK16-14.5	14.0-14.5
442.151	GSK16-15.0	14.5-15.0
442.421	GSK16-15.5	15.0-15.5
442.422	GSK16-16.0	15.5-16.0
442.154	GSK20-4.0	3.5-4.0
442.155	GSK20-4.5	4.0-4.5
442.156	GSK20-5.0	4.5-5.0
442.157	GSK20-5.5	5.0-5.5
442.158	GSK20-6.0	5.5-6.0
442.159	GSK20-6.5	6.0-6.5
442.160	GSK20-7.0	6.5-7.0
442.161	GSK20-7.5	7.0-7.5
442.162	GSK20-8.0	7.5-8.0
442.163	GSK20-8.5	8.0-8.5

No.	Model	D
442.164	GSK20-9.0	8.5-9.0
442.165	GSK20-9.5	9.0-9.5
442.166	GSK20-10.0	9.5-10.0
442.167	GSK20-10.5	10.0-10.5
442.168	GSK20-11.0	10.5-11.0
442.169	GSK20-11.5	11-11.5
442.170	GSK20-12.0	11.5-12.0
442.171	GSK20-12.5	12.0-12.5
442.172	GSK20-13.0	12.5-13.0
442.173	GSK20-13.5	13.0-13.5
442.174	GSK20-14.0	13.5-14.0
442.175	GSK20-14.5	14.0-14.5
442.176	GSK20-15.0	14.5-15.0
442.177	GSK20-15.5	15.0-15.5
442.178	GSK20-16.0	15.5-16.0
442.179	GSK20-16.5	16.0-16.5
442.180	GSK20-17.0	16.5-17.0
442.181	GSK20-17.5	17.0-17.5
442.182	GSK20-18.0	17.5-18.0
442.423	GSK20-18.5	18.0-18.5
442.424	GSK20-19.0	18.5-19.0
442.425	GSK20-19.5	19.0-19.5
442.426	GSK20-20.0	19.5-20.0
442.183	GSK25-3.0	2.5-3.0
442.184	GSK25-4.0	3.5-4.0
442.185	GSK25-6.0	5.5-6.0
442.186	GSK25-8.0	7.5-8.0
442.187	GSK25-10.0	9.5-10.0
442.188	GSK25-12.0	11.5-12.0
442.189	GSK25-16.0	15.5-16.0
442.190	GSK25-16.5	16.0-16.5
442.191	GSK25-17.0	16.5-17.0
442.192	GSK25-17.5	17.0-17.5
442.193	GSK25-18.0	17.5-18.0
442.194	GSK25-18.5	18.0-18.5
442.195	GSK25-19.0	18.5-19.0
442.196	GSK25-19.5	19.0-19.5
442.197	GSK25-20.0	19.5-20.0
442.198	GSK25-20.5	20.0-20.5
442.199	GSK25-21.0	20.5-21.0
442.200	GSK25-21.5	21.0-21.5
442.201	GSK25-22.0	21.5-22.0
442.202	GSK25-22.5	22.0-22.5
442.203	GSK25-23.0	22.5-23.0
442.204	GSK25-23.5	23.0-23.5
442.205	GSK25-24.0	23.5-24.0
442.206	GSK25-24.5	24.0-24.5
442.207	GSK25-25.0	24.5-25.0
442.208	GSK25-25.4	25.0-25.4

弹性直夹套

Redution Sleeve

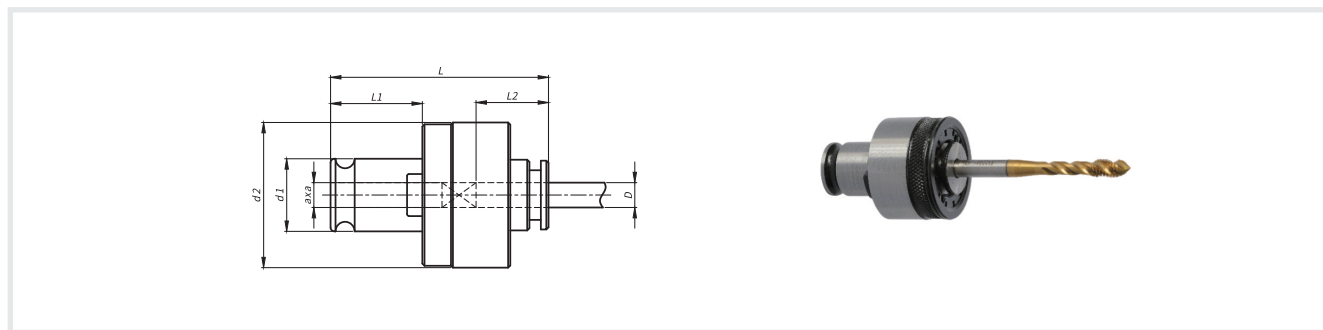


No.	Model	d	d1	D	L
253.100	RJ20-4	20	4	23	53
253.101	RJ20-5	20	5	23	53
253.102	RJ20-6	20	6	23	53
253.103	RJ20-8	20	8	23	53
253.104	RJ20-10	20	10	23	53
253.105	RJ20-12	20	12	23	53
253.106	RJ20-14	20	14	23	53
253.107	RJ20-16	20	16	23	53
253.108	RJ25-4	25	4	58	60
253.109	RJ25-5	25	5	58	60
253.110	RJ25-6	25	6	58	60
253.111	RJ25-8	25	8	58	60
253.112	RJ25-10	25	10	58	60
253.113	RJ25-12	25	12	58	60
253.114	RJ25-14	25	14	58	60
253.115	RJ25-16	25	16	58	60
253.116	RJ25-18	25	18	58	60
253.117	RJ25-20	25	20	58	60
253.118	RJ32-5	32	5	36	65
253.119	RJ32-6	32	6	36	65
253.120	RJ32-8	32	8	36	65
253.121	RJ32-10	32	10	36	65
253.122	RJ32-12	32	12	36	65
253.123	RJ32-14	32	14	36	65
253.124	RJ32-16	32	16	36	65
253.125	RJ32-18	32	18	36	65
253.126	RJ32-20	32	20	36	65
253.127	RJ32-25	32	25	36	65
253.148	RJ40-5	40	5	44	74
253.128	RJ40-6	40	6	44	74
253.129	RJ40-8	40	8	44	74
253.130	RJ40-10	40	10	44	74
253.131	RJ40-12	40	12	44	74
253.149	RJ40-14	40	14	44	74
253.132	RJ40-16	40	16	44	74
253.133	RJ40-18	40	18	44	74

No.	Model	d	d1	D	L
253.134	RJ40-20	40	20	44	74
253.135	RJ40-25	40	25	44	74
253.136	RJ40-32	40	32	44	74
253.137	RJ50-6	50	6	55	85
253.138	RJ50-8	50	8	55	85
253.139	RJ50-10	50	10	55	85
253.140	RJ50-12	50	12	55	85
253.141	RJ50-14	50	14	55	85
253.142	RJ50-16	50	16	55	85
253.143	RJ50-18	50	18	55	85
253.144	RJ50-20	50	20	55	85
253.145	RJ50-25	50	25	55	85
253.146	RJ50-32	50	32	55	85
253.147	RJ50-40	50	40	55	85

快换丝锥夹套 (配用GB/T3464国家标准常用丝锥)

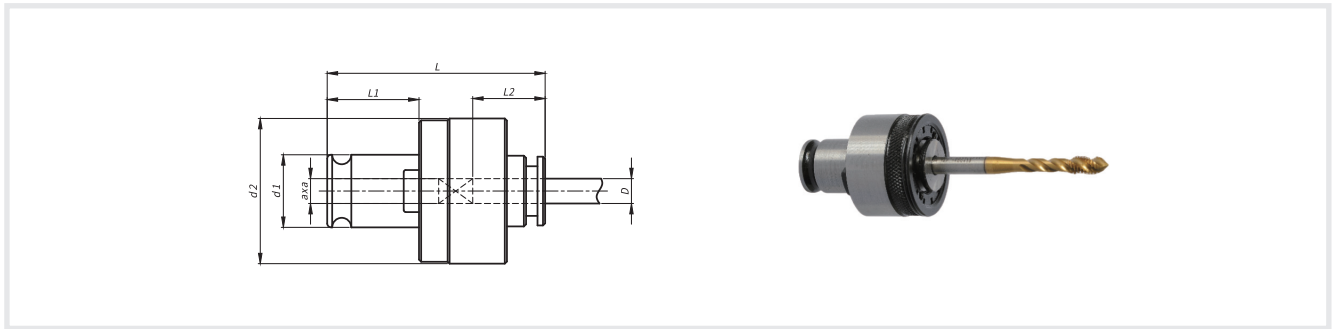
Quick Change Inserts with Safty Clutch



No.	Model	d1	d2	L	L1	L2	D	a	Inserts
149.110	JQC-G3-M3x2.24x1.8	19	35	48	23	21	2.24	1.8	M3
149.111	JQC-G3-M4x3.15x2.5	19	35	48	23	21	3.15	2.5	M4 (M3)
149.112	JQC-G3-M5x4x3.15	19	35	48	23	21	4	3.15	M5/M5.5 (M4)
149.113	JQC-G3-M6x4.5x3.55	19	35	48	23	21	4.5	3.55	M6 (M4.5)
149.114	JQC-G3-M8x6.3x5	19	35	48	23	21	6.3	5	M8 (M6)
149.115	JQC-G3-M10x8x6.3	19	35	48	23	21	8	6.3	M10/M11 (M8)
149.116	JQC-G3-M12x9x7.1	19	35	48	23	21	9	7.1	M12 (M9)
149.134	JQC-G8-M4.5x3.55x2.8	31	54	71	37	34	3.55	2.8	M4.5
149.135	JQC-G8-M5x4x3.15	31	54	71	37	34	4	3.15	M5
149.136	JQC-G8-M6x4.5x3.55	31	54	71	37	34	4.5	3.55	M6
149.117	JQC-G8-M8x6.3x5	31	54	71	37	34	6.3	5	M8
149.118	JQC-G8-M9x7.1x5.6	31	54	71	37	34	7.1	5.6	M9
149.119	JQC-G8-M10x8x6.3	31	54	71	37	34	8	6.3	M10/M11
149.120	JQC-G8-M12x9x7.1	31	54	71	37	34	9	7.1	M12
149.121	JQC-G8-M14x11.2x9	31	54	71	37	34	11.2	9	M14/M15
149.122	JQC-G8-M16x12.5x10	31	54	71	37	34	12.5	10	M16/M17
149.123	JQC-G8-M18x14x11.2	31	54	71	37	34	14	11.2	M18/M20
149.131	JQC-G8-M22x16x12.5	31	54	71	37	34	16	12.5	M22
149.132	JQC-G8-M24x18x14	31	54	71	37	34	18	14	M24/M25/M26
149.124	JQC-G14-M14x11.2x9	48	75	102	56	45	11.2	9	M14/M15
149.125	JQC-G14-M16x12.5x10	48	75	102	56	45	12.5	10	M16/M17
149.126	JQC-G14-M18x14x11.2	48	75	102	56	45	14	11.2	M18/M20
149.127	JQC-G14-M22x16x12.5	48	75	102	56	45	16	12.5	M22
149.128	JQC-G14-M24x18x14	48	75	102	56	45	18	14	M24/M25/M26
149.129	JQC-G14-M27x20x16	48	75	102	56	45	20	16	M27/M28/M30
149.130	JQC-G14-M32x22.4x18	48	75	102	56	45	22.4	18	M32/M33

刚性快换丝锥夹套(配用GB/T3464国家标准常用丝锥)

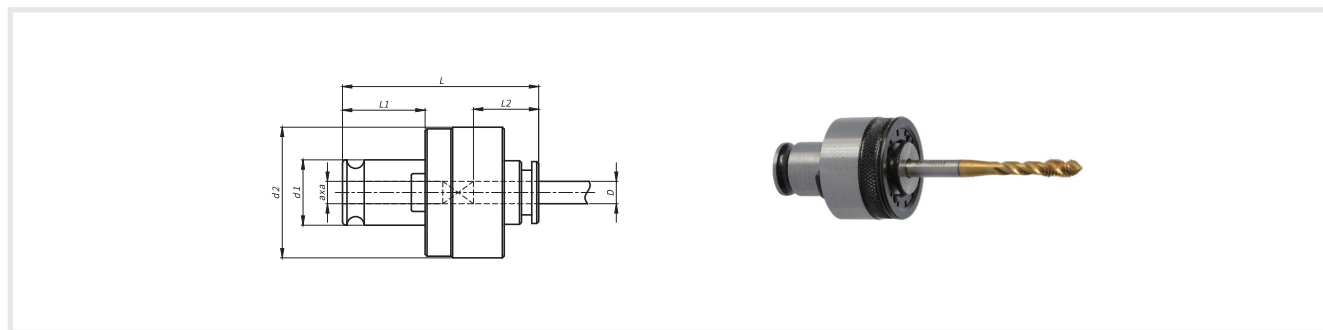
Quick Change Inserts with safety clutch



No.	Model	d1	d2	L	L1	L2	D	a	Inserts
149.210	JQC-HG3-M3x2.24x1.8	19	35	48	23	21	2.24	1.8	M3
149.211	JQC-HG3-M4x3.15x2.5	19	35	48	23	21	3.15	2.5	M4 (M3)
149.212	JQC-HG3-M5x4x3.15	19	35	48	23	21	4	3.15	M5/M5.5 (M4)
149.213	JQC-HG3-M6x4.5x3.55	19	35	48	23	21	4.5	3.55	M6 (M4.5)
149.214	JQC-HG3-M8x6.3x5	19	35	48	23	21	6.3	5	M8 (M6)
149.215	JQC-HG3-M10x8x6.3	19	35	48	23	21	8	6.3	M10/M11 (M8)
149.216	JQC-HG3-M12x9x7.1	19	35	48	23	21	9	7.1	M12 (M9)
149.233	JQC-HG3-M14x11.2x9	19	35	48	23	21	11.2	9	M14
149.234	JQC-HG8-M4.5x3.55x2.8	31	54	71	37	34	3.55	2.8	M4.5
149.235	JQC-HG8-M5x4x3.15	31	54	71	37	34	4	3.15	M5
149.236	JQC-HG8-M6x4.5x3.55	31	54	71	37	34	4.5	3.55	M6
149.217	JQC-HG8-M8x6.3x5	31	54	71	37	34	6.3	5	M8
149.218	JQC-HG8-M9x7.1x5.6	31	54	71	37	34	7.1	5.6	M9
149.219	JQC-HG8-M10x8x6.3	31	54	71	37	34	8	6.3	M10/M11
149.220	JQC-HG8-M12x9x7.1	31	54	71	37	34	9	7.1	M12
149.221	JQC-HG8-M14x11.2x9	31	54	71	37	34	11.2	9	M14/M15
149.222	JQC-HG8-M16x12.5x10	31	54	71	37	34	12.5	10	M16/M17
149.223	JQC-HG8-M18x14x11.2	31	54	71	37	34	14	11.2	M18/M20
149.231	JQC-HG8-M22x16x12.5	31	54	71	37	34	16	12.5	M22
149.232	JQC-HG8-M24x18x14	31	54	71	37	34	18	14	M24/M25/M26
149.224	JQC-HG14-M14x11.2x9	48	75	102	56	45	11.2	9	M14/M15
149.225	JQC-HG14-M16x12.5x10	48	75	102	56	45	12.5	10	M16/M17
149.226	JQC-HG14-M18x14x11.2	48	75	102	56	45	14	11.2	M18/M20
149.227	JQC-HG14-M22x16x12.5	48	75	102	56	45	16	12.5	M22
149.228	JQC-HG14-M24x18x14	48	75	102	56	45	18	14	M24/M25/M26
149.229	JQC-HG14-M27x20x16	48	75	102	56	45	20	16	M27/M28/M30
149.230	JQC-HG14-M32x22.4x18	48	75	102	56	45	22.4	18	M32/M33

快换丝锥夹套 (配用DIN357、371、376德国标准常用丝锥)

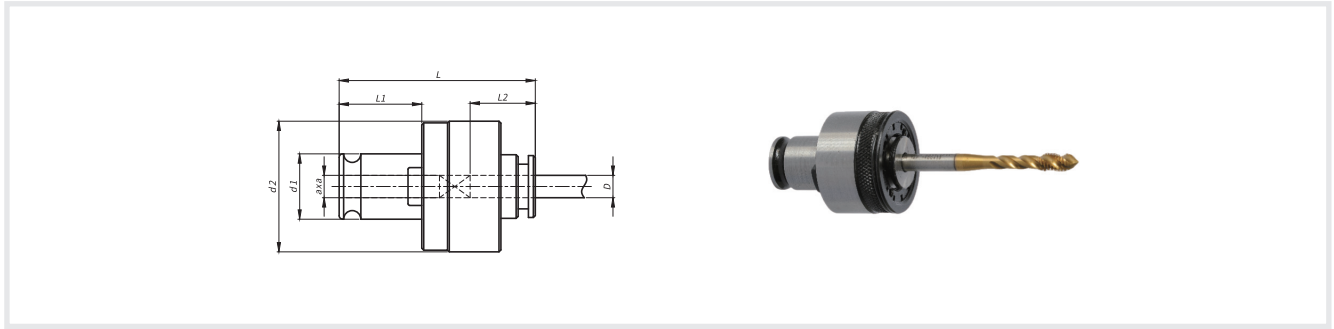
Quick Change Inserts with safety clutch



No.	Model	d1	d2	L	L1	L2	D	a	Inserts
149.140	JQC-DG3-M3.5x2.5x2.1	19	35	48	23	21	2.5	2.1	M3.5
149.141	JQC-DG3-M4x2.8x2.1	19	35	48	23	21	2.8	2.1	M4
149.142	JQC-DG3-M5x3.5x2.7	19	35	48	23	21	3.5	2.7	M4.5/M5
149.143	JQC-DG3-M6x4.5x3.4	19	35	48	23	21	4.5	3.4	M6
149.144	JQC-DG3-M7x5.5x4.3	19	35	48	23	21	5.5	4.3	M7
149.145	JQC-DG3-M8x6x4.9	19	35	48	23	21	6	4.9	M8
149.146	JQC-DG3-M10x7x5.5	19	35	48	23	21	7	5.5	M9/M10
149.147	JQC-DG3-M11x8x6.2	19	35	48	23	21	8	6.2	M11
149.148	JQC-DG3-M12x9x7	19	35	48	23	21	9	7	M12
149.149	JQC-DG8-M6x4.5x3.4	31	54	71	37	34	4.5	3.4	M6
149.150	JQC-DG8-M7x5.5x4.3	31	54	71	37	34	5.5	4.3	M7
149.151	JQC-DG8-M8x6x4.9	31	54	71	37	34	6	4.9	M8
149.152	JQC-DG8-M10x7x5.5	31	54	71	37	34	7	5.5	M9/M10
149.153	JQC-DG8-M11x8x6.2	31	54	71	37	34	8	6.2	M11
149.154	JQC-DG8-M12x9x7	31	54	71	37	34	9	7	M12
149.155	JQC-DG8-M14x11x9	31	54	71	37	34	11	9	M14
149.156	JQC-DG8-M16x12x9	31	54	71	37	34	12	9	M16
149.157	JQC-DG8-M18x14x11	31	54	71	37	34	14	11	M18
149.158	JQC-DG8-M20x16x12	31	54	71	37	34	16	12	M20
149.199	JQC-DG8-M24x18x14.5	31	54	71	37	34	18	14.5	M22/M24
149.159	JQC-DG14-M14x11x9	48	75	102	56	45	11	9	M14
149.160	JQC-DG14-M16x12x9	48	75	102	56	45	12	9	M16
149.161	JQC-DG14-M18x14x11	48	75	102	56	45	14	11	M18
149.162	JQC-DG14-M20x16x12	48	75	102	56	45	16	12	M20
149.163	JQC-DG14-M24x18x14.5	48	75	102	56	45	18	14.5	M22/M24
149.164	JQC-DG14-M27x20x16	48	75	102	56	45	20	16	M27
149.165	JQC-DG14-M30x22x18	48	75	102	56	45	22	18	M30
149.166	JQC-DG14-M33x25x20	48	75	102	56	45	25	20	M33

刚性快换丝锥夹套(配用Din357、371、376德国标准常用丝锥)

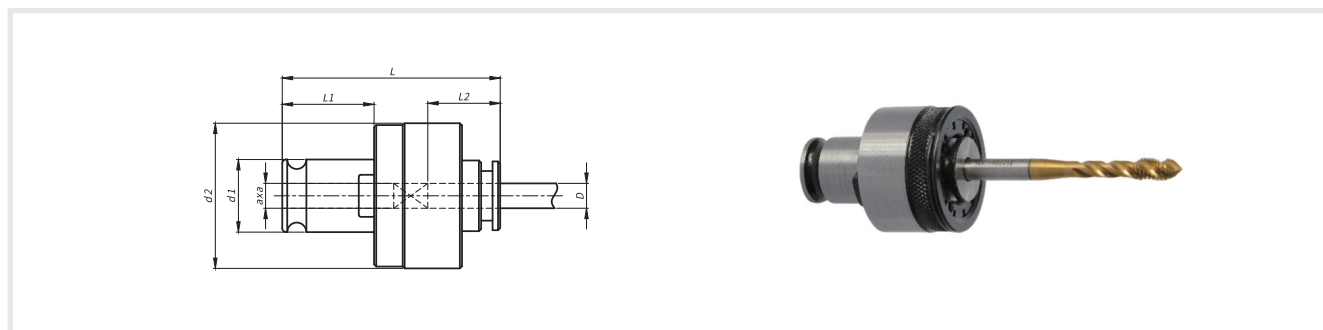
Quick Change Inserts with safety clutch



No.	Model	d1	d2	L	L1	L2	D	a	Inserts
149.240	JQC-DHG3-M3.5x2.5x2.1	19	35	48	23	21	2.5	2.1	M3.5
149.241	JQC-DHG3-M4x2.8x2.1	19	35	48	23	21	2.8	2.1	M4
149.242	JQC-DHG3-M5x3.5x2.7	19	35	48	23	21	3.5	2.7	M4.5/M5
149.243	JQC-DHG3-M6x4.5x3.4	19	35	48	23	21	4.5	3.4	M6
149.244	JQC-DHG3-M7x5.5x4.3	19	35	48	23	21	5.5	4.3	M7
149.245	JQC-DHG3-M8x6x4.9	19	35	48	23	21	6	4.9	M8
149.246	JQC-DHG3-M10x7x5.5	19	35	48	23	21	7	5.5	M9/M10
149.247	JQC-DHG3-M11x8x6.2	19	35	48	23	21	8	6.2	M11
149.248	JQC-DHG3-M12x9x7	19	35	48	23	21	9	7	M12
149.249	JQC-DHG8-M6x4.5x3.4	31	54	71	37	34	4.5	3.4	M6
149.250	JQC-DHG8-M7x5.5x4.3	31	54	71	37	34	5.5	4.3	M7
149.251	JQC-DHG8-M8x6x4.9	31	54	71	37	34	6	4.9	M8
149.252	JQC-DHG8-M10x7x5.5	31	54	71	37	34	7	5.5	M9/M10
149.253	JQC-DHG8-M11x8x6.2	31	54	71	37	34	8	6.2	M11
149.254	JQC-DHG8-M12x9x7	31	54	71	37	34	9	7	M12
149.255	JQC-DHG8-M14x11x9	31	54	71	37	34	11	9	M14
149.256	JQC-DHG8-M16x12x9	31	54	71	37	34	12	9	M16
149.257	JQC-DHG8-M18x14x11	31	54	71	37	34	14	11	M18
149.258	JQC-DHG8-M20x16x12	31	54	71	37	34	16	12	M20
149.299	JQC-DHG8-M24x18x14.5	31	54	71	37	34	18	14.5	M22/M24
149.259	JQC-DHG14-M14x11x9	48	75	102	56	45	11	9	M14
149.260	JQC-DHG14-M16x12x9	48	75	102	56	45	12	9	M16
149.261	JQC-DHG14-M18x14x11	48	75	102	56	45	14	11	M18
149.262	JQC-DHG14-M20x16x12	48	75	102	56	45	16	12	M20
149.263	JQC-DHG14-M24x18x14.5	48	75	102	56	45	18	14.5	M22/M24
149.264	JQC-DHG14-M27x20x16	48	75	102	56	45	20	16	M27
149.265	JQC-DHG14-M30x22x18	48	75	102	56	45	22	18	M30
149.266	JQC-DHG14-M33x25x20	48	75	102	56	45	25	20	M33

快换丝锥夹套 (配用JIS日本标准常用丝锥)

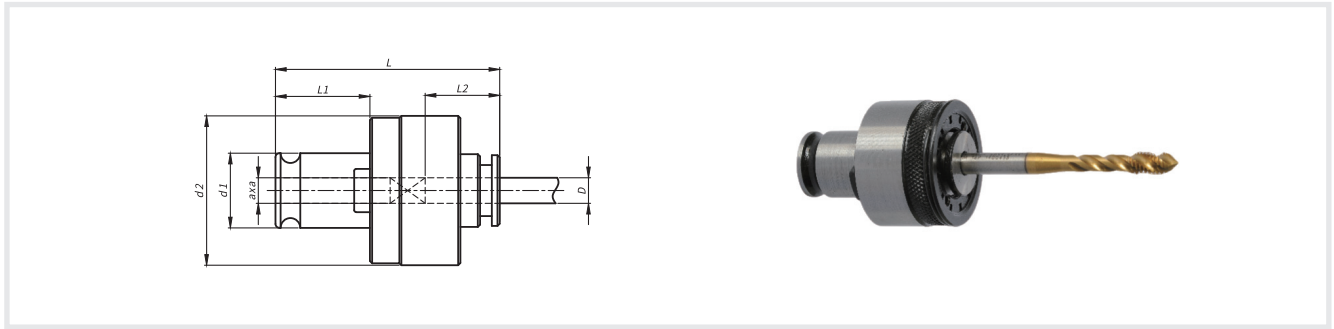
Quick Change Inserts with safety clutch



No.	Model	d1	d2	L	L1	L2	D	a	Inserts
149.170	JQC-JG3-M2x3x2.5	19	35	48	23	21	3	2.5	M1/M2/M2.5
149.171	JQC-JG3-M3x4x3.2	19	35	48	23	21	4	3.2	M3/M3.5
149.172	JQC-JG3-M4x5x4	19	35	48	23	21	5	4	M4/M4.5
149.173	JQC-JG3-M5x5.5x4.5	19	35	48	23	21	5.5	4.5	M5
149.174	JQC-JG3-M6x6x4.5	19	35	48	23	21	6	4.5	M6
149.175	JQC-JG3-M8x6.2x5	19	35	48	23	21	6.2	5	M7/M8
149.176	JQC-JG3-M10x7x5.5	19	35	48	23	21	7	5.5	M9/M10
149.177	JQC-JG3-M11x8x6	19	35	48	23	21	8	6	M11
149.178	JQC-JG3-M12x8.5x6.5	19	35	48	23	21	8.5	6.5	M12
149.179	JQC-JG8-M4x5x4	31	54	71	37	34	5	4	M4/M4.5
149.180	JQC-JG8-M5x5.5x4.5	31	54	71	37	34	5.5	4.5	M5
149.181	JQC-JG8-M6x6x4.5	31	54	71	37	34	6	4.5	M6
149.182	JQC-JG8-M8x6.2x5	31	54	71	37	34	6.2	5	M7/M8
149.183	JQC-JG8-M10x7x5.5	31	54	71	37	34	7	5.5	M9/M10
149.184	JQC-JG8-M11x8x6	31	54	71	37	34	8	6	M11
149.185	JQC-JG8-M12x8.5x6.5	31	54	71	37	34	8.5	6.5	M12
149.186	JQC-JG8-M14x10.5x8	31	54	71	37	34	10.5	8	M14
149.187	JQC-JG8-M16x12.5x10	31	54	71	37	34	12.5	10	M16
149.188	JQC-JG8-M18x14x11	31	54	71	37	34	14	11	M18
149.189	JQC-JG8-M20x15x12	31	54	71	37	34	15	12	M20
149.190	JQC-JG14-M14x10.5x8	48	75	102	56	45	10.5	8	M14
149.191	JQC-JG14-M16x12.5x10	48	75	102	56	45	12.5	10	M16
149.192	JQC-JG14-M18x14x11	48	75	102	56	45	14	11	M18
149.193	JQC-JG14-M20x15x12	48	75	102	56	45	15	12	M20
149.194	JQC-JG14-M22x17x13	48	75	102	56	45	17	13	M22
149.195	JQC-JG14-M24x19x15	48	75	102	56	45	19	15	M24
149.196	JQC-JG14-M27x20x15	48	75	102	56	45	20	15	M27
149.197	JQC-JG14-M30x23x17	48	75	102	56	45	23	17	M30
149.198	JQC-JG14-M33x25x19	48	75	102	56	45	25	19	M33

刚性快换丝锥夹套(配用JIS日本标准常用丝锥)

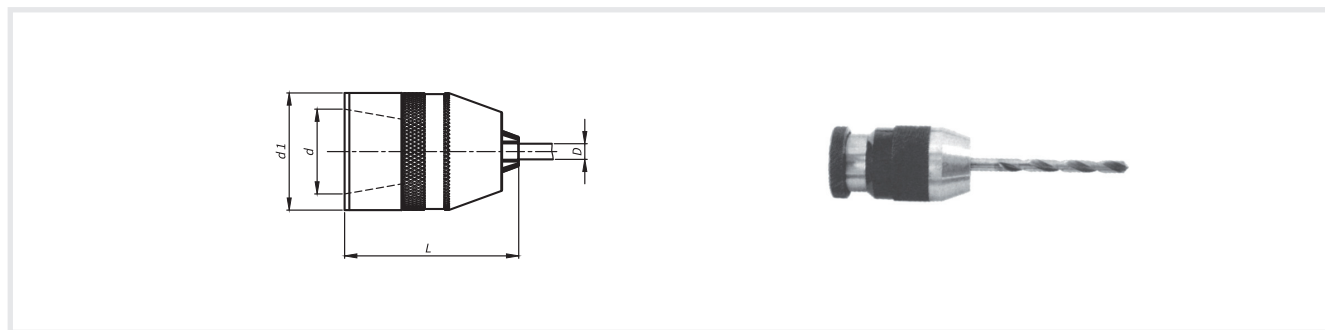
Quick Change Inserts with safety clutch



No.	Model	d1	d2	L	L1	L2	D	a	Inserts
149.270	JQC-JHG3-M2x3x2.5	19	35	48	23	21	3	2.5	M1/M2/M2.5
149.271	JQC-JHG3-M3x4x3.2	19	35	48	23	21	4	3.2	M3/M3.5
149.272	JQC-JHG3-M4x5x4	19	35	48	23	21	5	4	M4/M4.5
149.273	JQC-JHG3-M5x5.5x4.5	19	35	48	23	21	5.5	4.5	M5
149.274	JQC-JHG3-M6x6x4.5	19	35	48	23	21	6	4.5	M6
149.275	JQC-JHG3-M8x6.2x5	19	35	48	23	21	6.2	5	M7/M8
149.276	JQC-JHG3-M10x7x5.5	19	35	48	23	21	7	5.5	M9/M10
149.277	JQC-JHG3-M11x8x6	19	35	48	23	21	8	6	M11
149.278	JQC-JHG3-M12x8.5x6.5	19	35	48	23	21	8.5	6.5	M12
149.279	JQC-JHG8-M4x5x4	31	54	71	37	34	5	4	M4/M4.5
149.280	JQC-JHG8-M5x5.5x4.5	31	54	71	37	34	5.5	4.5	M5
149.281	JQC-JHG8-M6x6x4.5	31	54	71	37	34	6	4.5	M6
149.282	JQC-JHG8-M8x6.2x5	31	54	71	37	34	6.2	5	M7/M8
149.283	JQC-JHG8-M10x7x5.5	31	54	71	37	34	7	5.5	M9/M10
149.284	JQC-JHG8-M11x8x6	31	54	71	37	34	8	6	M11
149.285	JQC-JHG8-M12x8.5x6.5	31	54	71	37	34	8.5	6.5	M12
149.286	JQC-JHG8-M14x10.5x8	31	54	71	37	34	10.5	8	M14
149.287	JQC-JHG8-M16x12.5x10	31	54	71	37	34	12.5	10	M16
149.288	JQC-JHG8-M18x14x11	31	54	71	37	34	14	11	M18
149.289	JQC-JHG8-M20x15x12	31	54	71	37	34	15	12	M20
149.290	JQC-JHG14-M14x10.5x8	48	75	102	56	45	10.5	8	M14
149.291	JQC-JHG14-M16x12.5x10	48	75	102	56	45	12.5	10	M16
149.292	JQC-JHG14-M18x14x11	48	75	102	56	45	14	11	M18
149.293	JQC-JHG14-M20x15x12	48	75	102	56	45	15	12	M20
149.294	JQC-JHG14-M22x17x13	48	75	102	56	45	17	13	M22
149.295	JQC-JHG14-M24x19x15	48	75	102	56	45	19	15	M24
149.296	JQC-JHG14-M27x20x15	48	75	102	56	45	20	15	M27
149.297	JQC-JHG14-M30x23x17	48	75	102	56	45	23	17	M30
149.298	JQC-JHG14-M33x25x19	48	75	102	56	45	25	19	M33

自紧钻夹头

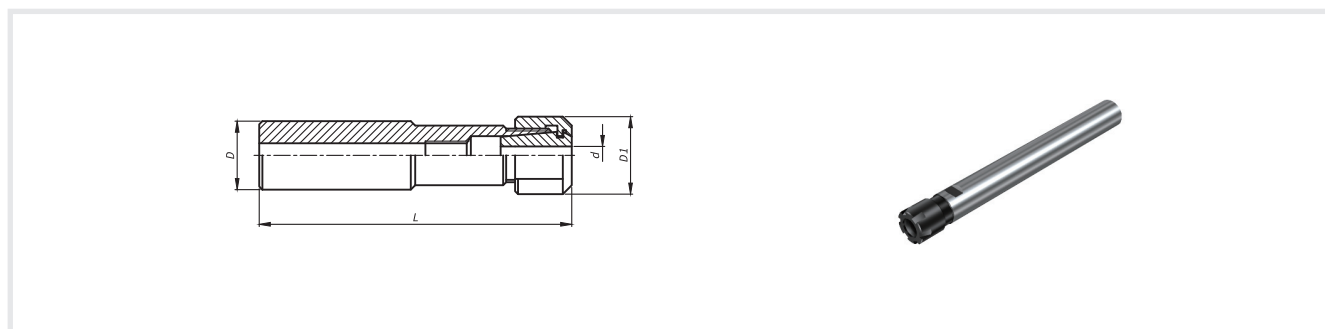
Drilling Chuck



No.	Model	D	D1	d	L
253.300	ALC-DC6	0.6-6	31	B10	64
253.301	ALC-DC10	1-10	42	B12	91
253.302	ALC-DC13	1-13	48	B16	106
253.303	ALC-DC16	3-16	53	B18	108

直柄小弹簧夹头

Small Collet Chucks with Parallel Shanks

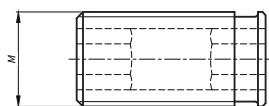


No.	Model	D	D1	d	L	Bans	Collects
640.0201.040	ST20-ER16-150	20	28	3-10	150	BS-ER16	ER16
640.0209.040	ST20-ER16-200	20	28	3-10	200	BS-ER16	ER16
640.0210.040	ST20-ER16-250	20	28	3-10	250	BS-ER16	ER16
640.0211.040	ST20-ER16-300	20	28	3-10	300	BS-ER16	ER16
640.0213.040	ST20-ER16M-150	20	22	3-10	150	BS-ER16M	ER16M
640.0214.040	ST20-ER16M-200	20	22	3-10	200	BS-ER16M	ER16M
640.0215.040	ST20-ER16M-250	20	22	3-10	250	BS-ER16M	ER16M
640.0216.040	ST20-ER16M-300	20	22	3-10	300	BS-ER16M	ER16M
640.0202.040	ST20-ER20-150	20	34	3-13	150	BS-ER20	ER20
640.0217.040	ST20-ER20-200	20	34	3-13	200	BS-ER20	ER20

No.	Model	D	D1	d	L	Bans	Collects
640.0218.040	ST20-ER20-250	20	34	3-13	250	BS-ER20	ER20
640.0219.040	ST20-ER20-300	20	34	3-13	300	BS-ER20	ER20
640.0220.040	ST20-ER20M-150	20	28	3-13	150	BS-ER20M	ER20M
640.0221.040	ST20-ER20M-200	20	28	3-13	200	BS-ER20M	ER20M
640.0222.040	ST20-ER20M-250	20	28	3-13	250	BS-ER20M	ER20M
640.0223.040	ST20-ER20M-300	20	28	3-13	300	BS-ER20M	ER20M
640.0203.040	ST25-ER16-150	20	28	3-10	150	BS-ER16	ER16
640.0224.040	ST25-ER16-200	20	28	3-10	200	BS-ER16	ER16
640.0225.040	ST25-ER16-250	20	28	3-10	250	BS-ER16	ER16
640.0226.040	ST25-ER16-300	20	28	3-10	300	BS-ER16	ER16
640.0227.040	ST25-ER16M-150	20	22	3-10	150	BS-ER16M	ER16M
640.0228.040	ST25-ER16M-200	20	22	3-10	200	BS-ER16M	ER16M
640.0229.040	ST25-ER16M-250	20	22	3-10	250	BS-ER16M	ER16M
640.0230.040	ST25-ER16M-300	20	22	3-10	300	BS-ER16M	ER16M
640.0204.040	ST25-ER20-150	25	34	3-13	150	BS-ER20	ER20
640.0286.040	ST25-ER20-200	25	34	3-13	200	BS-ER20	ER20
640.0287.040	ST25-ER20-250	25	34	3-13	250	BS-ER20	ER20
640.0288.040	ST25-ER20-300	25	34	3-13	300	BS-ER20	ER20
640.0289.040	ST25-ER20M-150	25	28	3-13	150	BS-ER20M	ER20M
640.0290.040	ST25-ER20M-200	25	28	3-13	200	BS-ER20M	ER20M
640.0291.040	ST25-ER20M-250	25	28	3-13	250	BS-ER20M	ER20M
640.0292.040	ST25-ER20M-300	25	28	3-13	300	BS-ER20M	ER20M
640.0205.040	ST25-ER25-150	25	42	4-16	150	BS-ER25	ER25
640.0293.040	ST25-ER25-200	25	42	4-16	200	BS-ER25	ER25
640.0294.040	ST25-ER25-250	25	42	4-16	250	BS-ER25	ER25
640.0295.040	ST25-ER25-300	25	42	4-16	300	BS-ER25	ER25
640.0296.040	ST25-ER25M-150	25	35	4-16	150	BS-ER25M	ER25M
640.0297.040	ST25-ER25M-200	25	35	4-16	200	BS-ER25M	ER25M
640.0298.040	ST25-ER25M-250	25	35	4-16	250	BS-ER25M	ER25M
640.0299.040	ST25-ER25M-300	25	35	4-16	300	BS-ER25M	ER25M

用于热装刀柄的调整螺钉

Adjusting Screws for shrink fit chucks and i-tec® SLOTT



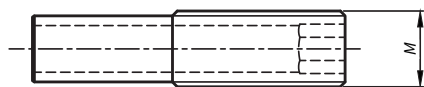
No.	Model	d1	for	Size
159.550	AS-SRK6-HSK	6/7	311.../420...	HSK/PSC/JT/BT/Zyl.
159.551	AS-SRK8-HSK	8/9	311.../420...	HSK/PSC/JT/BT/Zyl.
159.552	AS-SRK10-HSKC	10	311...	HSK32C/E
159.553	AS-SRK10-HSK	10/11	311...	HSK/PSC/JT/BT/Zyl.
159.554	AS-SRK12-HSKC	12/14	311...	HSKC
159.555	AS-SRK12-HSK	12/14	311...	HSK/PSC/JT/BT/Zyl.
159.557	AS-SRK16-HSK	16/18	311...	HSK/PSC/JT/BT/Zyl.
159.558	AS-SRK20-HSK	20/25/32	311...	HSK/PSC/JT/BT/Zyl.

用于在刀具切削过程中对尺寸补偿的调整

For length adjustment of cutting tools.

用于HSK-A/E/F型ER16弹簧夹头刀柄的调整螺钉

Adjusting Screws for collet chucks HJT/BT-A, E and F - ER 16



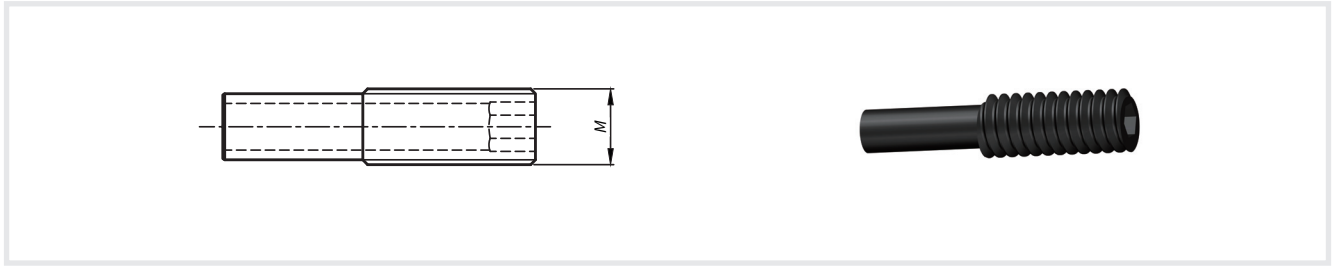
No.	Model	ER	d	for	Size
159.633	AS-ER16-HSK40-2.8	ER16(0.5-10)	2.8-5	698...	HSK40
159.612	AS-ER16-HSK50-2.8	ER16(0.5-10)	2.8-5	698...	HSK50/63
159.602	AS-ER16-HSK80-2.8	ER16(0.5-10)	2.8-5	698...	HSK80/100/JT/BT40/50
159.644	AS-ER16-HSK32-4.8	ER16(0.5-10)	4.8-7	698...	HSK32
159.634	AS-ER16-HSK40-4.8	ER16(0.5-10)	4.8-7	698...	HSK40
159.636	AS-ER16-HSK50-4.8	ER16(0.5-10)	4.8-7	698...	HSK50/63
159.601	AS-ER16-HSK80-4.8	ER16(0.5-10)	4.8-7	698...	HSK80/100/JT/BT40/50
159.645	AS-ER16-HSK32-6.8	ER16(0.5-10)	6.8-10	698...	HSK32
159.635	AS-ER16-HSK40-6.8	ER16(0.5-10)	6.8-10	698...	HSK40
159.637	AS-ER16-HSK50-6.8	ER16(0.5-10)	6.8-10	698...	HSK50/63
159.638	AS-ER16-HSK80-6.8	ER16(0.5-10)	6.8-10	698...	HSK80/100/JT/BT40/50

用于在刀具切削过程中对尺寸补偿的调整

For length adjustment of cutting tools.

用于HSK-A/E/F型和SK型ER25/32/40弹簧夹头刀柄的调整螺钉

Adjusting Screws for collet chucks HJT/BT-A,E and F and JT/BT - ER 25/32/40



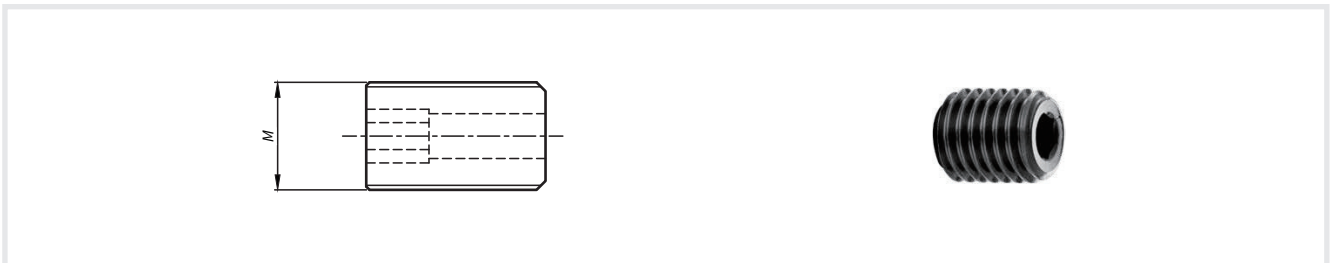
No.	Model	ER	d	for	Size
159.650	AS-ER25-3.8	ER25	3.8-7	697...	HSK40/50/63
159.616	AS-ER32/40-3.8	ER32/40	3.8-7	697...	HSK40/50/63
159.604	AS-ER25/32/40-3.8	ER25/32/40	3.8-7	697...	HSK80/100/JT/BT40/50
159.651	AS-ER25-6.8	ER25	6.8-10	697...	HSK40/50/63
159.617	AS-ER32/40-6.8	ER32/40	6.8-10	697...	HSK40/50/63
159.603	AS-ER25/32/40-6.8	ER25/32/40	6.8-10	697...	HSK80/100/JT/BT40/50
159.652	AS-ER25-9.8	ER25	9.8-13	697...	HSK40/50/63
159.639	AS-ER32/40-9.8	ER32/40	9.8-13	697...	HSK40/50/63
159.640	AS-ER25/32/40-9.8	ER25/32/40	9.8-13	697...	HSK80/100/JT/BT40/50
159.641	AS-ER32/40-12.8	ER32/40	12.8-20	697...	HSK40/50/63
159.642	AS-ER32/40-12.8	ER32/40	12.8-20	697...	HSK80/100/JT/BT40/50
159.362	AS-ER40-19.8	ER40	19.8-26	697...	HSK63
159.336	AS-ER40-19.8	ER40	19.8-26	697...	HSK80/100

用于在刀具切削过程中对尺寸补偿的调整

For length adjustment of cutting tools.

用于HSK-A型和JT/BT型削平型刀柄的调整螺钉

Adjusting Screws for reduction sleeves HJT/BT-A and JT/BT



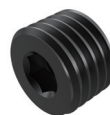
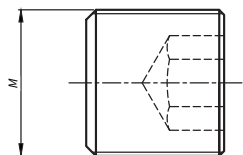
No.	Model	d1	for	Size
159.365	AS-EM6-HSK-A	6	420...	HSK-A/Zyl./JT/BT
159.366	AS-EM8-HSK-A	8	420...	HSK-A/Zyl./JT/BT
159.367	AS-EM10-HSK-A	10	420...	HSK-A/JT/BT
159.357	AS-EM12-HSK-A40	12/14	420...	HSK-A40
159.368	AS-EM12-HSK-A	12/14	420...	HSK-A50/63/80/100/JT/BT
159.358	AS-EM16-HSK-A40	16	420...	HSK-A40
159.369	AS-EM16-HSK-A	16/18	420...	HSK-A50/63/80/100/JT/BT
159.355	AS-EM20-HSK-A	20	420...	HSK-A50/63/JT/BT
159.370	AS-EM20-HSK-A80	20	420...	HSK-A80/100
159.354	AS-EM25-HSK-A	25/32	420...	HSK-A63/80/JT/BT
159.371	AS-EM25-HSK-A80	25/32	420...	HSK-A100

用于在刀具切削过程中对尺寸补偿的调整

For length adjustment of cutting tools.

用于削平型刀柄的夹紧螺钉

Clamping Screws for reduction sleeves



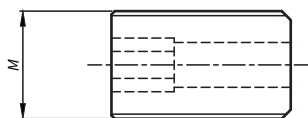
No.	Model	D	M	for	Size
159.501	CS-EM6	6	M6×10	192.../420...	Flexibore/HSK/PSK/JT/BT
159.502	CS-EM8	8	M8×10	192.../420...	Flexibore/HSK/PSK/JT/BT
159.503	CS-EM10	10	M10×12	192.../420...	Flexibore/HSK/PSK/JT/BT
159.504	CS-EM12	12/14	M12×16	192.../420...	Flexibore/HSK/PSK/JT/BT
159.505	CS-EM16	16/18	M14×16	192.../420...	Flexibore/HSK/PSK/JT/BT
159.506	CS-EM20	20	M16×16	192.../420...	Flexibore/HSK/PSK/JT/BT
159.507	CS-EM25	25	M18×2×20	192.../420...	Flexibore/HSK/PSK/JT/BT
159.508	CS-EM32	32/40	M20×2×20	192.../420...	Flexibore/HSK/PSK/JT/BT
159.509	CS-EM50	50	M24×2×20	192.../420...	Flexibore/HSK/PSK/JT/BT
159.509-1	CS-EM63	63	M24×2×25	192.../420...	Flexibore/HSK/PSK/JT/BT

用于在刀具切削过程中对尺寸补偿的调整

For length adjustment of cutting tools.

用于液压刀柄的调整螺钉

Adjusting Screws for hydraulic expansion chucks



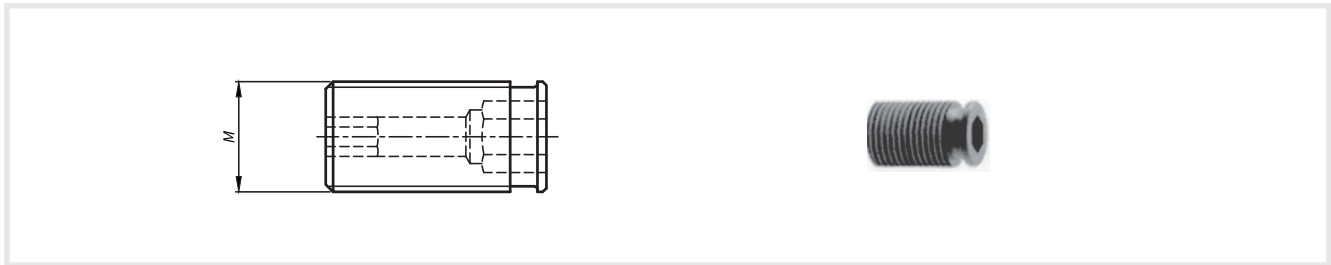
No.	Model	d	for	Size
159.372	AS-HD6	6	702...	HSK/JT/BT
159.373	AS-HD8	8	702...	HSK/JT/BT
159.374	AS-HD10	10	702...	HSK/JT/BT
159.375	AS-HD12	12/14	702...	HSK/JT/BT
159.379	AS-HD16	16/18	702...	HSK/JT/BT
159.380	AS-HD20	20/25/32	702...	HSK/JT/BT

用于在刀具切削过程中对尺寸补偿的调整

For length adjustment of cutting tools.

用于HSK-C型和PSC型削平型刀柄的调整螺钉

Adjusting Screws for reduction sleeves HSK-C and PSK



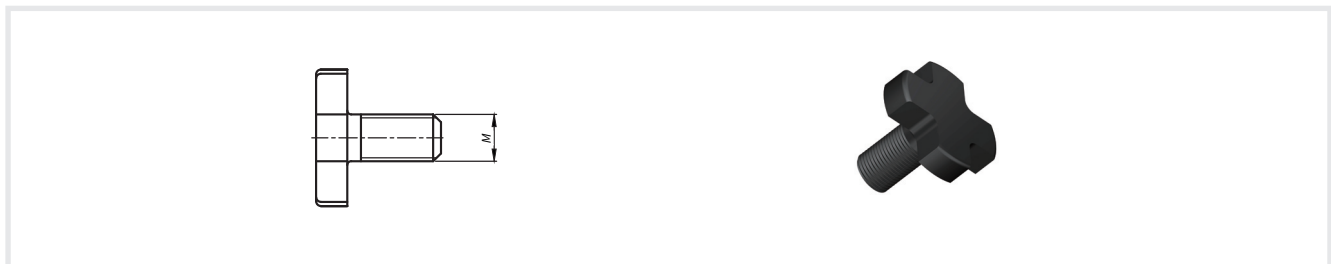
No.	Model	d1	for	Size
159.378	AS-EM6-HSK-C	6	420...	HSK40/50/63/100/PSC32/40/50/63/80
159.385	AS-EM8-HSK-C	8	420...	HSK40/80/100/PSC32/40/50/63/80
159.386	AS-EM8-HSK-C63	8	420...	HSK50/63
159.389	AS-EM10-HSK-C	10	420...	HSK40/100
159.377	AS-EM10-HSK-C63	10	420...	HSK50/63/PSC32/40/50/63/80
159.382	AS-EM12-HSK-C	12/14	420...	HSK40/100/PSC32/40/50/63/80
159.388	AS-EM12-HSK-C63	12/14	420...	HSK50/63
159.384	AS-EM16-HSK-C	16/18	420...	HSK40/80/100/PSC50/63/80
159.390	AS-EM16-HSK-C63	16/18	420...	HSK50/63
159.391	AS-EM20-HSK-C100	20	420...	HSK80/100
159.361	AS-EM20-HSK-C	20/25/32	420...	HSK50/63/PSC50/63/80
159.363	AS-EM25-HSK-C100	25/32	420...	HSK63/80/100

用于在刀具切削过程中对尺寸补偿的调整

For length adjustment of cutting tools.

十字型螺钉

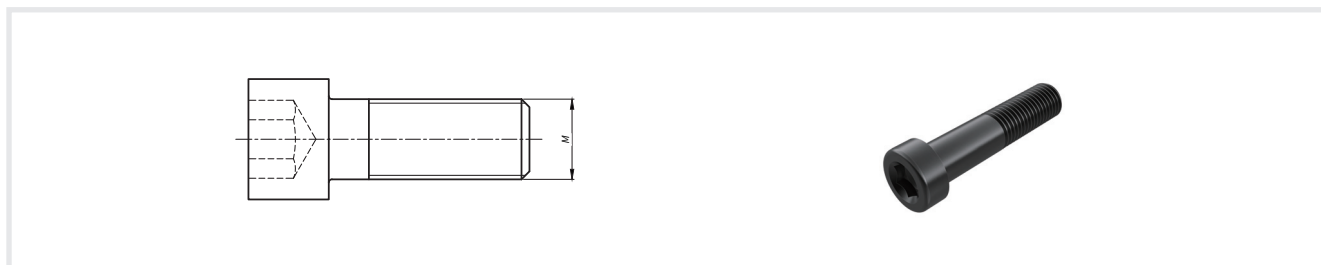
Cutter Retaining Screws for shell end mill arbors



No.	Model	d1	M	for
031.003	CRS-M8-D16	16	M8	197.../489.../579...
031.004	CRS-M10-D22	22	M10	197.../489.../579...
031.005	CRS-M12-D27	27	M12	197.../489.../579...
031.006	CRS-M16-D32	32	M16	197.../489.../579...
031.007	CRS-M20-D40	40	M20	197.../489.../579...
031.008	CRS-M24-D50	50	M24	489.../579...
031.009	CRS-M30-D60	60	M30	489.../579...

用于JT/BT型莫氏锥柄变径套的紧固螺钉

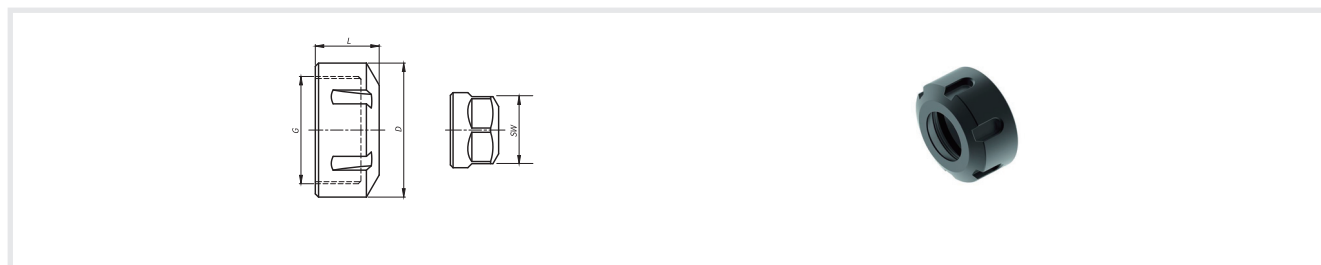
Retaining Screws for reduction sleeves SK for morse tapers



No.	Model	MK	for	Size
059.703	FS-MK1-JT/BT40	1	458...	JT/BT40
059.552	FS-MK2-JT/BT40	2	458...	JT/BT40
059.532	FS-MK3-JT/BT40	3	458...	JT/BT40
059.704	FS-MK4-JT/BT40	4	458...	JT/BT40
059.554	FS-MK1-JT/BT50	1	458...	JT/BT50
059.555	FS-MK2-JT/BT50	2	458...	JT/BT50
059.532	FS-MK3-JT/BT50	3	458...	JT/BT50
059.588	FS-MK4-JT/BT50	4	458...	JT/BT50
059.707	FS-MK5-JT/BT50	5	458...	JT/BT50

ER夹紧螺母

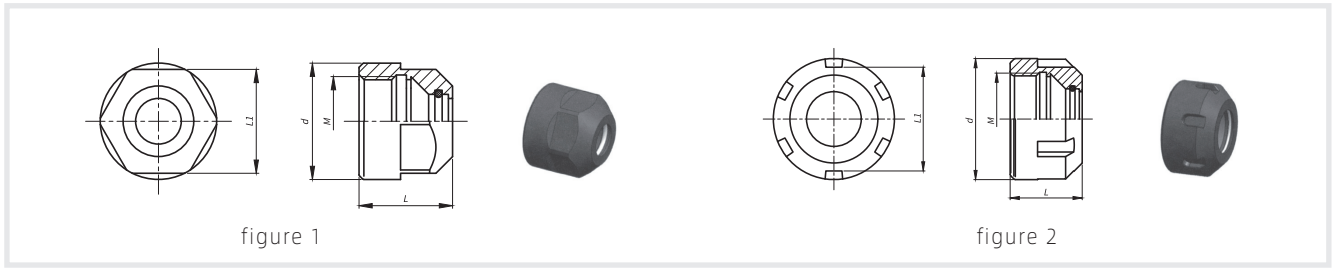
ER Clamping Nuts



No.	Model	D	L	G	SW	kg
095.400	CN-ER11UM	19	12	M14×0.75	17	0.02
095.401	CN-ER16UM	28	18	M22×1.5	25	0.04
095.405	CN-ER20UM	34	19.5	M25×1.5	30	0.08
095.406	CN-ER25	42	20.5	M32×1.5	-	0.1
095.402	CN-ER32	50	23.5	M40×1.5	-	0.15
095.403	CN-ER40	63	26	M50×1.5	-	0.28

ER-C型内冷夹紧螺母

ER-C Clamping Nuts for internal coolant supply



No.	Model	M	d	L	l1	Rings for Seal	figure
195.100	CN-ER16UMC	M22×1.5	28	22.5	17	ER/D16-..SR	figure1
195.101	CN-ER20UMC	M25×1.5	34	24.0	25	ER/D20-..SR	figure1
195.102	CN-ER25C	M32×1.5	42	25.0	36	ER/D25-..SR	figure2
195.103	CN-ER32C	M40×1.5	50	27.5	44	ER/D32-..SR	figure2
195.104	CN-ER40C	M50×1.5	63	30.5	57	ER/D40-..SR	figure2

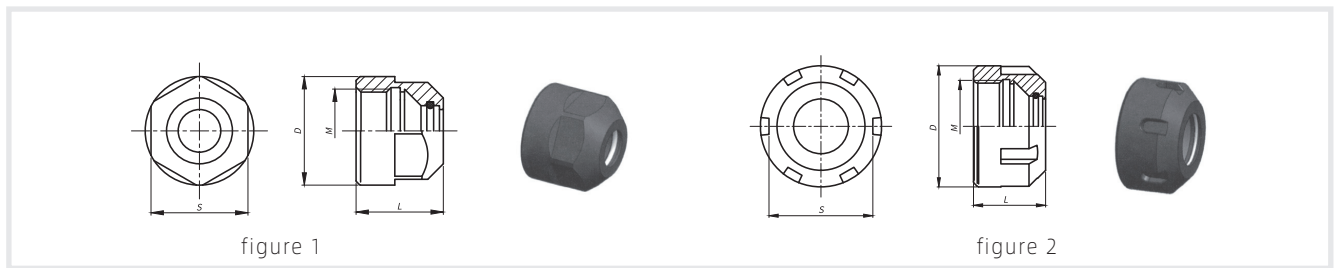
Model	For D	Torque
ER16	3	20
ER16	4	40
ER16	5-10	56
ER20	3-6	32
ER20	7-13	80
ER25	3	24
ER25	4	56
ER25	5-7	80
ER25	8-16	104
ER32	3-20	136
ER40	3-26	176

用于在刀具切削过程中对尺寸补偿的调整。

For length adjustment of cutting tools.

滑动螺母

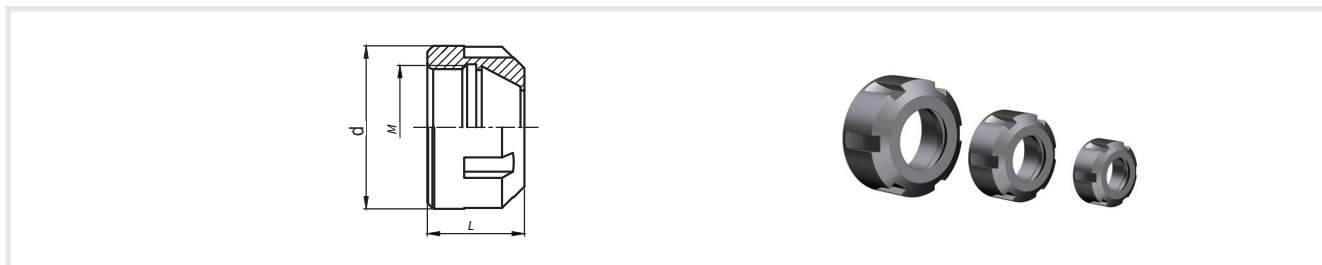
Sliding Nut



No.	Model	M	d	L	S	figure	Kg
195.105	CN-ER16UMT	M22×1.5	28	20.2	25	figure1	0.05
195.106	CN-ER20UMT	M25×1.5	34	21.7	30	figure1	0.07
195.107	CN-ER25T	M32×1.5	42	22.65	36	figure2	0.12
195.108	CN-ER32T	M40×1.5	50	24.95	44	figure2	0.17
195.109	CN-ER40T	M50×1.5	63	28.2	56	figure2	0.32

EM螺母M型

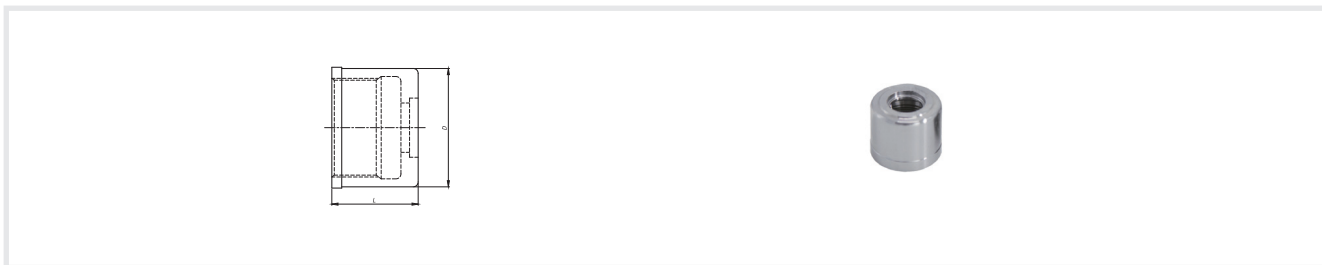
EM Clamping Nuts



No.	Model	M	d	L	Kg
195.110	CN-ER11M	M13×0.75	16	12	0.008
195.111	CN-ER16M	M19×1.0	22	18	0.018
195.112	CN-ER20M	M24×1.0	28	19	0.031
195.113	CN-ER25M	M30×1.0	35	20	0.053

GSK夹紧螺母

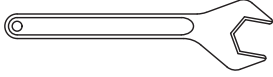
GSK Clamping Nuts



No.	Model	D	T	L
442.209	CN-GSK6	20.5	M15×1	21
442.210	CN-GSK10	27.5	M21.5×1	24
442.427	CN-GSK13	35	M28×1.5	28
442.211	CN-GSK16	40	M32×1.5	31
442.212	CN-GSK20	48	M40×1.5	35
442.213	CN-GSK25	55	M45×1.5	37

ER夹紧螺母扳手

Clamping Keys for ER clamping nuts



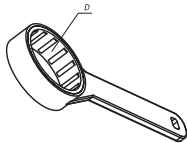
(I型) NO.	Model	for	Size
032.307	WRENCH-ER11UM	698...	HSK/PSK/JT/BT
032.308	WRENCH-ER16UM	698...	HSK/PSK/JT/BT
032.309	WRENCH-ER20UM	698...	HSK/PSK/JT/BT



(II型) NO.	Model	for	Size
032.808	WRENCH-ER25	697...	HSK/PSK/JT/BT
032.809	WRENCH-ER32	697...	HSK/PSK/JT/BT
032.810	WRENCH-ER40	697...	HSK/PSK/JT/BT

GSK夹紧螺帽扳手

Clamping Keys for GSK clamping nuts



No.	Model	D
442.214	WRENCH-GSK6	20.5
442.215	WRENCH-GSK10	27.5
442.428	WRENCH-GSK13	35
442.216	WRENCH-GSK16	40
442.217	WRENCH-GSK20	48
442.218	WRENCH-GSK25	55

强力铣夹头扳手

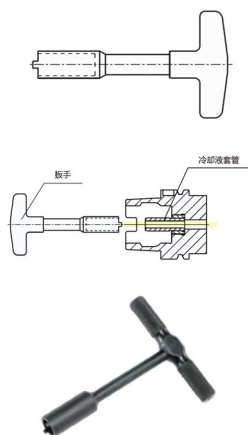
Clamping Keys for Strong Chuck Holder of Boring and Milling



No.	Model	for
032.810	WRENCH-SC20	55-62
032.811	WRENCH-SC25/SC32	68-72
032.812	WRENCH-SC40	78-85
032.813	WRENCH-SC50	100-110

冷却管扳手

Keys For Coolant Tubes



No.	Model	HSK-A/E	HSK-B/F	d	L
032.511	WRENCH-HSK32	32	40	9	186
032.512	WRENCH-HSK40	40	50	11	186
032.513	WRENCH-HSK50	50	63	15	186
032.514	WRENCH-HSK63	63	80	17	186
032.515	WRENCH-HSK80	80	100	18.5	186
032.516	WRENCH-HSK100	100	125	22.5	186

整体式螺母扳手

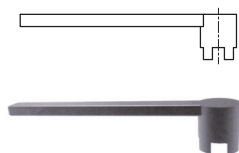
Clamping Keys for screws



No.	Model	L	W	Kg
195.114	WRENCH-ER16UM	210	25	0.4
195.115	WRENCH-ER16UM	210	25	0.4
195.116	WRENCH-ER20UM	220	30	0.5
195.117	WRENCH-ER20UM	220	30	0.5
195.118	WRENCH-ER25	230	42	0.5
195.119	WRENCH-ER32	250	50	0.7
195.120	WRENCH-ER40	280	63	0.8

十字型螺钉夹紧扳手

Keys for cutter retaining screws



No	Model	d1	for
032.003	WRENCH-CR-D16	16	197.../489.../579...
032.004	WRENCH-CR-D22	22	197.../489.../579...
032.005	WRENCH-CR-D27	27	197.../489.../579...
032.006	WRENCH-CR-D32	32	197.../489.../579...
032.007	WRENCH-CR-D40	40	197.../489.../579...
032.008	WRENCH-CR-D50	50	489.../579...
032.009	WRENCH-CR-D60	60	489.../579...

使用方向:应用于套式立铣刀柄的紧固螺钉的装卸。

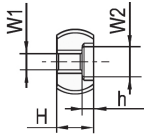
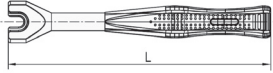
Use: For tightening and releasing cutter retaining screws on shell end mill arbors.

设计:抗拉强度1200N/MM², 并且保证紧密性。

Design: Tempered to min.1200 N/mm and welded.

整体式拉钉扳手

Clamping Keys for screws



No.	Model	L	H	W	Kg
499.001	WRENCH-X30P-1MGH	220	16	13	0.3
499.002	WRENCH-BT30	220	16	13	0.4
499.003	WRENCH-BT40	230	25	19	0.5
499.004	WRENCH-BT50	280	33	30	0.9
499.005	WRENCH-MAZAK-BT40	230	13	19	0.4
499.006	WRENCH-MAZAK-BT50	280	17	30	0.7
499.007	WRENCH-40P	230	20.5	19	0.5
499.008	WRENCH-CAT40	240	11	19	0.4
499.009	WRENCH-CAT50	280	17	32	0.8
499.010	WRENCH-BT-CAT40	230	22	19	0.4
499.011	WRENCH-XPMO40MG	230	23	19	0.5
499.012	WRENCH-D40	240	19.5	19	0.5
499.013	WRENCH-D50	280	24.5	30	0.8

扳手

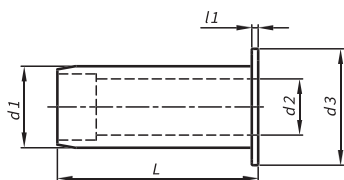
The Clamping Keys for PSC Holding Tools



No.	Model	for
442.520	WRENCH-WT09P	581/582
442.521	WRENCH-WH20L	581/582
442.522	WRENCH-WH25L	581/582
442.523	WRENCH-WH30L	581/582
442.524	WRENCH-WH35L	581/582
442.525	WRENCH-WH40L	581/582
442.526	WRENCH-WH50L	581/582
442.527	WRENCH-WT06IP	581/582
442.528	WRENCH-WT07IP	581/582
442.529	WRENCH-WT09IP	581/582
442.530	WRENCH-WT15IP	581/582
442.531	WRENCH-WT20IP	581/582

用于液压刀柄的变径套

Reduction Bushes for Hydraulic chucks



No.	Model	d1	d2	d3	l1	L	kg
302.521	RJ-HD12-3	12	3	16	4	44	0.1
302.522	RJ-HD12-4	12	4	16	4	44	0.1
302.523	RJ-HD12-5	12	5	16	4	44	0.1
302.524	RJ-HD12-6	12	6	16	4	44	0.1
302.525	RJ-HD12-8	12	8	16	4	44	0.1
302.507	RJ-HD20-3	20	3	25	4	54	0.1
302.508	RJ-HD20-4	20	4	25	4	54	0.1
302.509	RJ-HD20-5	20	5	25	4	54	0.1
302.501	RJ-HD20-6	20	6	25	4	54	0.1
302.510	RJ-HD20-7	20	7	25	4	54	0.1
302.502	RJ-HD20-8	20	8	25	4	54	0.1
302.526	RJ-HD20-9	20	9	25	4	54	0.1
302.503	RJ-HD20-10	20	10	25	4	54	0.1
302.527	RJ-HD20-11	20	11	25	4	54	0.1
302.504	RJ-HD20-12	20	12	25	4	54	0.1
302.528	RJ-HD20-13	20	13	25	4	54	0.1
302.505	RJ-HD20-14	20	14	25	4	54	0.1
302.529	RJ-HD20-15	20	15	25	4	54	0.1
302.506	RJ-HD20-16	20	16	25	4	54	0.1
302.541	RJ-HD25-3	25	3	30	4	60	0,18
302.542	RJ-HD25-4	25	4	30	4	60	0,18
302.543	RJ-HD25-5	25	5	30	4	60	0,18
302.544	RJ-HD25-6	25	6	30	4	60	0,18
302.545	RJ-HD25-7	25	7	30	4	60	0,18
302.546	RJ-HD25-8	25	8	30	4	60	0,17
302.547	RJ-HD25-9	25	9	30	4	60	0,17
302.548	RJ-HD25-10	25	10	30	4	60	0,16
302.549	RJ-HD25-12	25	12	30	4	60	0,15
302.550	RJ-HD25-14	25	14	30	4	60	0,14
302.551	RJ-HD25-16	25	16	30	4	60	0,13
302.552	RJ-HD25-18	25	18	30	4	60	0,11
302.553	RJ-HD25-20	25	20	30	4	60	0,09
302.531	RJ-HD32-6	32	6	36	4	64	0.3
302.532	RJ-HD32-8	32	8	36	4	64	0.3
302.533	RJ-HD32-10	32	10	36	4	64	0.3
302.534	RJ-HD32-12	32	12	36	4	64	0.3

No.	Model	d1	d2	d3	l1	L	kg
302.535	RJ-HD32-14	32	14	36	4	64	0.3
302.536	RJ-HD32-16	32	16	36	4	64	0.3
302.537	RJ-HD32-18	32	18	36	4	64	0.3
302.538	RJ-HD32-20	32	20	36	4	64	0.3
302.539	RJ-HD32-25	32	25	36	4	64	0.3

使用:用于减小液压刀柄所夹持的尺寸。

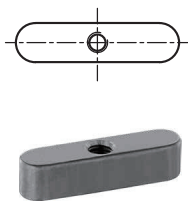
Use:To reduce the clamping size of hydraulic expansion chucks.

设计:加工键槽利于减少衬套和冷却并且最大满足80个毛坯件同时加工。对直径在 $\Phi 6$ - $\Phi 8$ mm的刀柄满足公差等级h6,直径在 $\Phi 9$ - $\Phi 25$ mm的刀柄满足公差等级h7。

Design:Slotted reduction bushes,coolant proof up to max. 80 bar.For the following shank tolerances:h6 for $\Phi 6$ - $\Phi 8$ mm,h7 for $\Phi 9$ - $\Phi 25$ mm.

套式立铣刀柄的平键

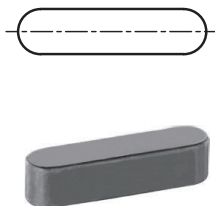
Rings for mill arbors



No.	Model	d1	for
047.501	FK-D16	16	197.../489..
047.502	FK-D22	22	489..
047.503	FK-D27	27	197.../489..
047.504	FK-D32	32	197.../489..
047.505	FK-D40	40	197.../489..
047.506	FK-D50	50	489..

PSC型套式立铣刀柄的平键

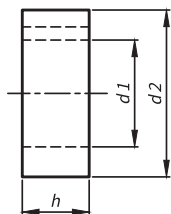
Feather Keys for shell end mill arbors PSK



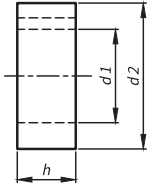
No.	Model	d1	for
047.203	FK-D16-PSC	16	422...
047.204	FK-D22-PSC	22	422...
047.205	FK-D27-PSC	27	422...
047.206	FK-D32-PSC	32	422...
047.207	FK-D40-PSC	40	422...
047.208	FK-D50-PSC	50	422...
047.209	FK-D60-PSC	60	422...
047.601	FK-D16-PSC	16	489...
047.602	FK-D22-PSC	22	489...
047.603	FK-D27-PSC	27	489...
047.604	FK-D32-PSC	32	489...
047.605	FK-D40-PSC	40	489...

铣刀柄的衬套

Rings for mill arbors

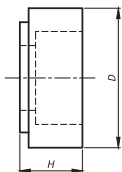


No.	Model	d1	d2	h
045.011	B-D16-2	16	25	2
045.012	B-D16-3	16	25	3
045.013	B-D16-4	16	25	4
045.014	B-D16-5	16	25	5
045.015	B-D16-6	16	25	6
045.016	B-D16-10	16	25	10
045.017	B-D16-20	16	25	20
045.018	B-D16-30	16	25	30
045.021	B-D22-2	22	33	2
045.022	B-D22-3	22	33	3
045.023	B-D22-4	22	33	4
045.024	B-D22-5	22	33	5
045.025	B-D22-6	22	33	6
045.026	B-D22-10	22	33	10
045.027	B-D22-20	22	33	20
045.028	B-D22-30	22	33	30
045.031	B-D27-2	27	39	2
045.032	B-D27-3	27	39	3
045.033	B-D27-4	27	39	4
045.034	B-D27-5	27	39	5
045.035	B-D27-6	27	39	6
045.036	B-D27-10	27	39	10
045.037	B-D27-20	27	39	20
045.038	B-D27-30	27	39	30
045.041	B-D32-2	32	45	2
045.042	B-D32-3	32	45	3
045.043	B-D32-4	32	45	4
045.044	B-D32-5	32	45	5



No.	Model	d1	d2	h
045.045	B-D32-6	32	45	6
045.046	B-D32-10	32	45	10
045.047	B-D32-20	32	45	20
045.048	B-D32-30	32	45	30
045.051	B-D40-2	40	54	2
045.052	B-D40-3	40	54	3
045.053	B-D40-4	40	54	4
045.054	B-D40-5	40	54	5
045.055	B-D40-6	40	54	6
045.056	B-D40-10	40	54	10
045.057	B-D40-20	40	54	20
045.058	B-D40-30	40	54	30
045.061	B-D50-2	50	67	2
045.062	B-D50-3	50	67	3
045.063	B-D50-4	50	67	4
045.064	B-D50-5	50	67	5
045.065	B-D50-6	50	67	6
045.066	B-D50-10	50	67	10
045.067	B-D50-20	50	67	20
045.068	B-D50-30	50	67	30
045.071	B-D60-2	60	83	2
045.072	B-D60-3	60	83	3
045.073	B-D60-4	60	83	4
045.074	B-D60-5	60	83	5
045.075	B-D60-6	60	83	6
045.076	B-D60-10	60	83	10
045.077	B-D60-20	60	83	20
045.078	B-D60-30	60	83	30

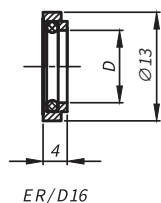
垫片
Washers



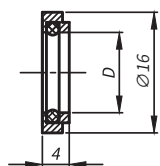
No.	Model	d1	D	H	M	for
401.001	R-D27	27	31.5	16	M12	579
401.002	R-D32	32	41	16	M16	579
401.003	R-D40	40	48	21.5	M20	579

密封垫圈

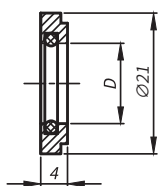
Sealing Disks



ER/D16



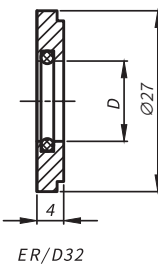
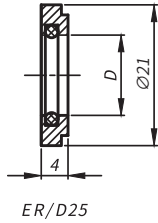
ER/D20



ER/D25

No.	Model	D	Kg
195.200	ER/D16-3.0SR	3.0-2.5	0.04
195.201	ER/D16-3.5SR	3.5-3.0	0.04
195.202	ER/D16-4.0SR	4.0-3.5	0.04
195.203	ER/D16-4.5SR	4.5-4.0	0.04
195.204	ER/D16-5.0SR	5.0-4.5	0.04
195.205	ER/D16-5.5SR	5.5-5.0	0.04
195.206	ER/D16-6.0SR	6.0-5.5	0.04
195.207	ER/D16-6.5SR	6.5-6.0	0.04
195.208	ER/D16-7.0SR	7.0-6.5	0.04
195.209	ER/D16-7.5SR	7.5-7.0	0.04
195.210	ER/D16-8.0SR	8.0-7.5	0.04
195.211	ER/D16-8.5SR	8.5-8.0	0.04
195.212	ER/D16-9.0SR	9.0-8.5	0.04
195.213	ER/D16-9.5SR	9.5-9.0	0.04
195.214	ER/D16-10.0SR	10.0-9.5	0.04
195.215	ER/D20-3.0SR	3.0-2.5	0.06
195.216	ER/D20-3.5SR	3.5-3.0	0.06
195.217	ER/D20-4.0SR	4.0-3.5	0.06
195.218	ER/D20-4.5SR	4.5-4.0	0.06
195.219	ER/D20-5.0SR	5.0-4.5	0.06
195.220	ER/D20-5.5SR	5.5-5.0	0.06
195.221	ER/D20-6.0SR	6.0-5.5	0.06
195.222	ER/D20-6.5SR	6.5-6.0	0.06
195.223	ER/D20-7.0SR	7.0-6.5	0.06
195.224	ER/D20-7.5SR	7.5-7.0	0.06
195.225	ER/D20-8.0SR	8.0-7.5	0.06
195.226	ER/D20-8.5SR	8.5-8.0	0.06
195.227	ER/D20-9.0SR	9.0-8.5	0.06
195.228	ER/D20-9.5SR	9.5-9.0	0.06
195.229	ER/D20-10.0SR	10.0-9.5	0.06
195.230	ER/D20-10.5SR	10.5-10.0	0.06
195.231	ER/D20-11.0SR	11.0-10.5	0.06
195.232	ER/D20-11.5SR	11.5-11.0	0.06
195.233	ER/D20-12.0SR	12.0-11.5	0.06
195.234	ER/D20-12.5SR	12.5-12.0	0.06
195.235	ER/D20-13.0SR	13.0-12.5	0.06
195.236	ER/D25-3.0SR	3.0-2.5	0.10
195.237	ER/D25-3.5SR	3.5-3.0	0.10
195.238	ER/D25-4.0SR	4.0-3.5	0.10
195.239	ER/D25-4.5SR	4.5-4.0	0.10
195.240	ER/D25-5.0SR	5.0-4.5	0.10
195.241	ER/D25-5.5SR	5.5-5.0	0.10
195.242	ER/D25-6.0SR	6.0-5.5	0.10
195.243	ER/D25-6.5SR	6.5-6.0	0.10
195.244	ER/D25-7.0SR	7.0-6.5	0.10
195.245	ER/D25-7.5SR	7.5-7.0	0.10
195.246	ER/D25-8.0SR	8.0-7.5	0.10
195.247	ER/D25-8.5SR	8.5-8.0	0.10

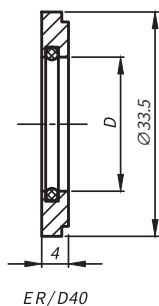
密封垫圈
Sealing Disks



No.	Model	D	Kg
195.248	ER/D25-9.0SR	9.0-8.5	0.10
195.249	ER/D25-9.5SR	9.5-9.0	0.10
195.250	ER/D25-10.0SR	10.0-9.5	0.10
195.251	ER/D25-10.5SR	10.5-10.0	0.10
195.252	ER/D25-11.0SR	11.0-10.5	0.10
195.253	ER/D25-11.5SR	11.5-11.0	0.10
195.254	ER/D25-12.0SR	12.0-11.5	0.10
195.255	ER/D25-12.5SR	12.5-12.0	0.10
195.256	ER/D25-13.0SR	13.0-12.5	0.10
195.257	ER/D25-13.5SR	13.5-13.0	0.10
195.258	ER/D25-14.0SR	14.0-13.5	0.10
195.259	ER/D25-14.5SR	14.5-14.0	0.10
195.260	ER/D25-15.0SR	15.0-14.5	0.10
195.261	ER/D25-15.5SR	15.5-15.0	0.10
195.262	ER/D25-16.0SR	16.0-15.5	0.10
195.263	ER/D32-3.0SR	3.0-2.5	0.15
195.264	ER/D32-3.5SR	3.5-3.0	0.15
195.265	ER/D32-4.0SR	4.0-3.5	0.15
195.266	ER/D32-4.5SR	4.5-4.0	0.15
195.267	ER/D32-5.0SR	5.0-4.5	0.15
195.268	ER/D32-5.5SR	5.5-5.0	0.15
195.269	ER/D32-6.0SR	6.0-5.5	0.15
195.270	ER/D32-6.5SR	6.5-6.0	0.15
195.271	ER/D32-7.0SR	7.0-6.5	0.15
195.272	ER/D32-7.5SR	7.5-7.0	0.15
195.273	ER/D32-8.0SR	8.0-7.5	0.15
195.274	ER/D32-8.5SR	8.5-8.0	0.15
195.275	ER/D32-9.0SR	9.0-8.5	0.15
195.276	ER/D32-9.5SR	9.5-9.0	0.15
195.277	ER/D32-10.0SR	10.0-9.5	0.15
195.278	ER/D32-10.5SR	10.5-10.0	0.15
195.279	ER/D32-11.0SR	11.0-10.5	0.15
195.280	ER/D32-11.5SR	11.5-11.0	0.15
195.281	ER/D32-12.0SR	12.0-11.5	0.15
195.282	ER/D32-12.5SR	12.5-12.0	0.15
195.283	ER/D32-13.0SR	13.0-12.5	0.15
195.284	ER/D32-13.5SR	13.5-13.0	0.15
195.285	ER/D32-14.0SR	14.0-13.5	0.15
195.286	ER/D32-14.5SR	14.5-14.0	0.15
195.287	ER/D32-15.0SR	15.0-14.5	0.15
195.288	ER/D32-15.5SR	15.5-15.0	0.15
195.289	ER/D32-16.0SR	16.0-15.5	0.15
195.290	ER/D32-16.5SR	16.5-16.0	0.15
195.291	ER/D32-17.0SR	17.0-16.5	0.15
195.292	ER/D32-17.5SR	17.5-17.0	0.15
195.293	ER/D32-18.0SR	18.0-17.5	0.15
195.294	ER/D32-18.5SR	18.5-18.0	0.15
195.295	ER/D32-19.0SR	19.0-18.5	0.15
195.296	ER/D32-19.5SR	19.5-19.0	0.15
195.297	ER/D32-20.0SR	20.0-19.5	0.15

密封垫圈

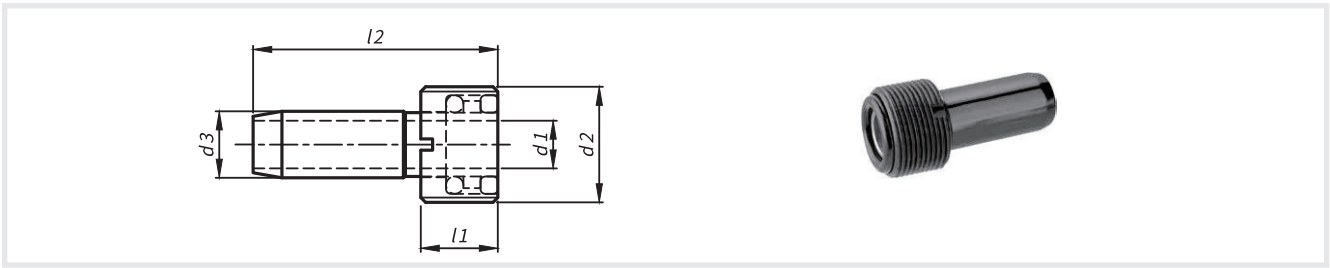
Sealing Disks



No.	Model	D	Kg
195.298	ER/D40-3.0SR	3.0-2.5	0.28
195.299	ER/D40-3.5SR	3.5-3.0	0.28
195.300	ER/D40-4.0SR	4.0-3.5	0.28
195.301	ER/D40-4.5SR	4.5-4.0	0.28
195.302	ER/D40-5.0SR	5.0-4.5	0.28
195.303	ER/D40-5.5SR	5.5-5.0	0.28
195.304	ER/D40-6.0SR	6.0-5.5	0.28
195.305	ER/D40-6.5SR	6.5-6.0	0.28
195.306	ER/D40-7.0SR	7.0-6.5	0.28
195.307	ER/D40-7.5SR	7.5-7.0	0.28
195.308	ER/D40-8.0SR	8.0-7.5	0.28
195.309	ER/D40-8.5SR	8.5-8.0	0.28
195.310	ER/D40-9.0SR	9.0-8.5	0.28
195.311	ER/D40-9.5SR	9.5-9.0	0.28
195.312	ER/D40-10.0SR	10.0-9.5	0.28
195.313	ER/D40-10.5SR	10.5-10.0	0.28
195.314	ER/D40-11.0SR	11.0-10.5	0.28
195.315	ER/D40-11.5SR	11.5-11.0	0.28
195.316	ER/D40-12.0SR	12.0-11.5	0.28
195.317	ER/D40-12.5SR	12.5-12.0	0.28
195.318	ER/D40-13.0SR	13.0-12.5	0.28
195.319	ER/D40-13.5SR	13.5-13.0	0.28
195.320	ER/D40-14.0SR	14.0-13.5	0.28
195.321	ER/D40-14.5SR	14.5-14.0	0.28
195.322	ER/D40-15.0SR	15.0-14.5	0.28
195.323	ER/D40-15.5SR	15.5-15.0	0.28
195.324	ER/D40-16.0SR	16.0-15.5	0.28
195.325	ER/D40-16.5SR	16.5-16.0	0.28
195.326	ER/D40-17.0SR	17.0-16.5	0.28
195.327	ER/D40-17.5SR	17.5-17.0	0.28
195.328	ER/D40-18.0SR	18.0-17.5	0.28
195.329	ER/D40-18.5SR	18.5-18.0	0.28
195.330	ER/D40-19.0SR	19.0-18.5	0.28
195.331	ER/D40-19.5SR	19.5-19.0	0.28
195.332	ER/D40-20.0SR	20.0-19.5	0.28
195.333	ER/D40-20.5SR	20.5-20.0	0.28
195.334	ER/D40-21.0SR	21.0-20.5	0.28
195.335	ER/D40-21.5SR	21.5-21.0	0.28
195.336	ER/D40-22.0SR	22.0-21.5	0.28
195.337	ER/D40-22.5SR	22.5-22.0	0.28
195.338	ER/D40-23.0SR	23.0-22.5	0.28
195.339	ER/D40-23.5SR	23.5-23.0	0.28
195.340	ER/D40-24.0SR	24.0-23.5	0.28
195.341	ER/D40-24.5SR	24.5-24.0	0.28
195.342	ER/D40-25.0SR	25.0-24.5	0.28
195.343	ER/D40-25.5SR	25.5-25.0	0.28
195.344	ER/D40-26.0SR	26.0-25.5	0.28

冷却管

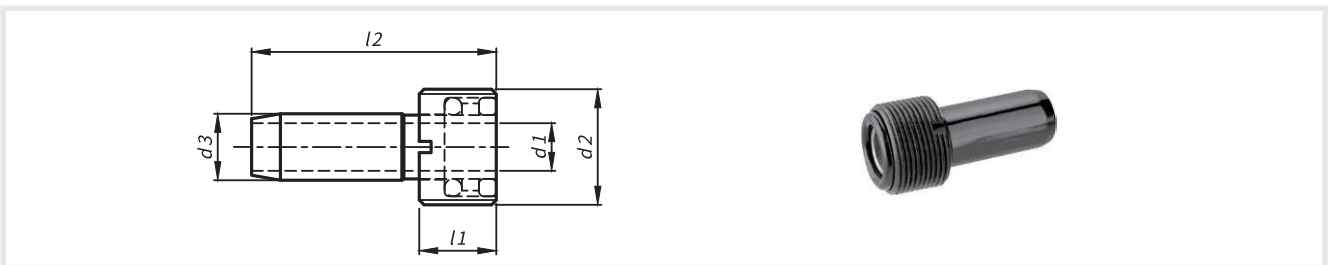
Coolant Tubes



No.	Model	HSK-A/E	HSK-B/F	d2	d1	d3	l1	l2
159.714	CT-HSK32-M10×1	32	40	M10×1	3.5	6	5.5	26
159.715	CT-HSK40-M12×1	40	50	M12×1	5	8	7.5	29.1
159.711	CT-HSK50-M16×1	50	63	M16×1	6.4	10	9.5	32.7
159.712	CT-HSK63-M18×1	63	80	M18×1	8	12	11.5	36
159.710	CT-HSK80-M20×1.5	80	100	M20×1.5	10	14	13.5	39.6
159.713	CT-HSK100-M24×1.5	100	125	M24×1.5	12	16	15.5	43.6

冷却管

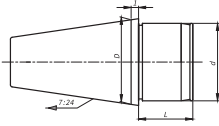
Coolant Tubes



No.	Model	HSK-A	d2	d1	d3	l1	l2
159.732	CT-HSK63-8	63	M22×1	8	12	11.5	36.5
159.733	CT-HSK100-12	100	M28×1.5	12	16	15.5	43.6

定位芯轴

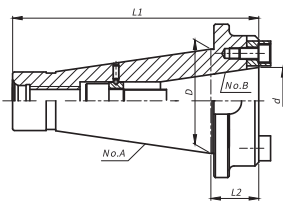
Location Shaft



No.	Model	Taper	D	d	L
440.0025.018	WST40/40-28	40	44.45	40	28
440.0020.018	WST50/40-28	50	69.85	40	28
440.0021.018	WST50/60-40	50	69.85	60	40
440.0023.018	WST60/40-28	60	107.95	40	28
440.0034.018	WST60/60-40	60	107.95	60	40
440.0024.018	ST40/40-28	40	44.45	40	28
440.0027.018	ST50/40-28	50	69.85	40	28
440.0011.018	ST50/60-40	50	69.85	60	40
440.0030.018	ST60/40-28	60	107.95	40	28
440.0035.018	ST60/60-40	60	107.95	60	40

过渡套

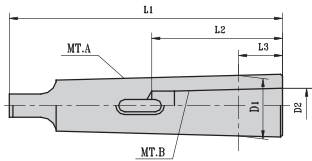
Taper Reduction Sleeves



No.	Model	No.A	No.B	D	d	L1	L2
440.0020.016	TS-JT50-JT40	JT50	JT40	69.85	44.45	150	48
440.0021.016	TS-JT60-JT50	JT60	JT50	107.95	69.85	242	80
440.0012.016	TS-BT50-BT40	BT50	BT40	69.85	44.45	150	48
440.0037.016	TS-BT60-BT50	BT60	BT50	107.95	69.85	232	70
440.0011.016	TS-WST50-WST40	WST50	WST40	69.85	44.45	162	60
440.0017.016	TS-ST60-ST50	ST60	ST50	107.95	69.85	257	50
440.0040.016	TS-JT50-ST50	JT50	ST50	69.85	69.85	252	150
440.0014.016	TS-JT60-ST50	JT60	ST50	107.95	69.85	247	85

精密莫氏变径套

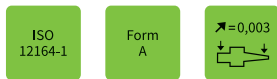
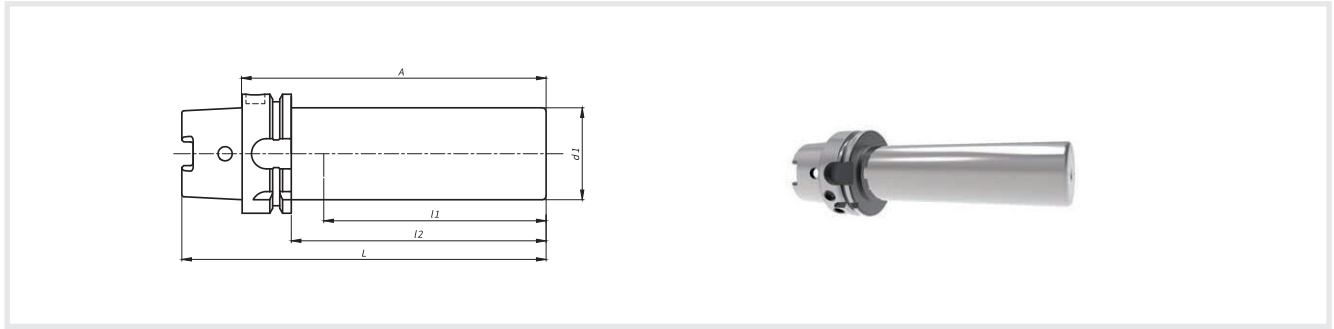
Precision Morse Taper Reduction Sleeves



No.	Model	MT.A	D1	MT.B	D2	L1	L2	L3
440.0001.060	TS-MT2-MT1	2	17.780	1	12.085	95	56	20.5
440.0002.060	TS-MT3-MT1	3	23.825	1	12.085	115	56	21.5
440.0003.060	TS-MT3-MT2	3	23.825	2	17.780	115	67	21.5
440.0004.060	TS-MT4-MT1	4	31.267	1	12.085	140	56	22.5
440.0005.060	TS-MT4-MT2	4	31.267	2	17.780	140	67	22.5
440.0006.060	TS-MT4-MT3	4	31.267	3	23.825	140	84	22.5
440.0032.060	TS-MT5-MT3	5	44.399	3	23.825	170	84	20.5
440.0033.060	TS-MT5-MT4	5	44.399	4	31.267	158	107	20.5
440.0034.060	TS-MT6-MT5	6	63.348	5	44.399	218	135	8

HSK-A圆锥检验棒

Test Arbors HSK-A automatic



No.	Model	HSK-A	d1	A	l1	l2	L	kg
418.0001.319	HSK-A32-BG25-176	32	25	176	150	160	192	1.4
418.0001.320	HSK-A40-BG25-180	40	25	180	150	160	200	1.7
418.0001.321	HSK-A50-BG32-236	50	32	236	200	210	261	2.1
418.0001.322	HSK-A63-BG40-346	63	40	346	300	320	378	2.8
418.0001.323	HSK-A80-BG40-346	80	40	346	300	320	386	3.1
418.0001.324	HSK-A100-BG40-349	100	40	349	300	320	399	3.5

使用方向:用来检测ISO标准推荐的R230型机床。

出厂标准产品包括:用木托立式存储。

注意:

l1=有效测量长度。

为了防止检验棒重量导致的测量结果误差, HSK50以上检验棒按中空阶梯孔设计。

检验棒也可用于 DIN 69893的E型和F型锥柄。

Use: For the acceptance test of machine tools in accordance with the ISO recommendation R 230.

Standard Specification: With wooden stand for vertical storage.

Note:

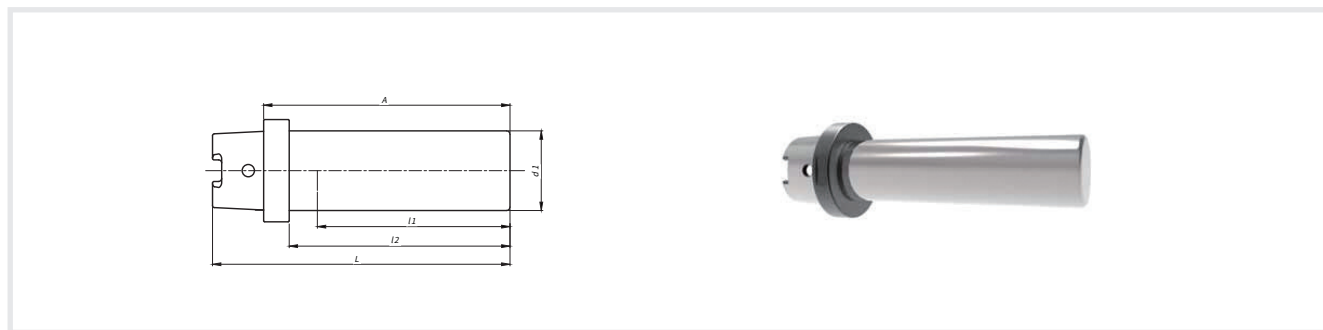
l1=effective measuring length.

To prevent wrong measuring results caused by their weight, the test arbors are hollowed out with a stepped bore from HSK 50.

The test arbors can also be used for DIN 69893 type E and F.

HSK-C圆锥检验棒

Test Arbors HSK-C manual



No.	Model	HSK-C	d1	A	l1	l2	L	kg
418.0001.340	HSK-C32-BG25-125	32	25	125	110	115	141	0.5
418.0001.341	HSK-C40-BG25-125	40	25	125	110	115	145	0.6
418.0001.342	HSK-C50-BG32-125	50	32	125	107.5	112.5	150	0.8
418.0001.343	HSK-C63-BG40-160	63	40	160	137.5	147.5	192	1.6
418.0001.344	HSK-C80-BG40-160	80	40	160	130	140	200	1.8
418.0001.345	HSK-C100-BG40-160	100	40	160	130	140	210	2

使用方向:用来检测ISO标准推荐的R230型机床。

出厂标准产品包括:用木托立式存储。

注意:

l1=有效测量长度。

检验棒也可用于DIN 69893的E型和F型锥柄

Use: For the acceptance test of machine tools in accordance with the ISO recommendation R 230.

Standard Specification:With wooden stand for vertical storage.

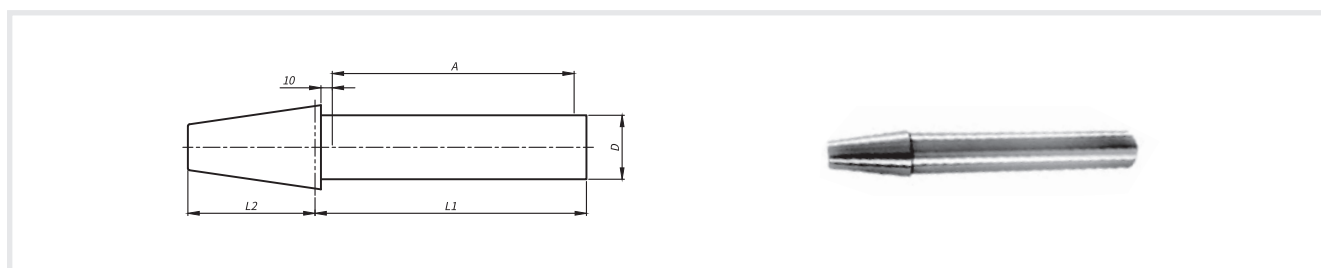
Note:

l1=effective measuring length.

The test arbors can also be used for DIN 69893 type E and F.

7:24圆锥检验棒

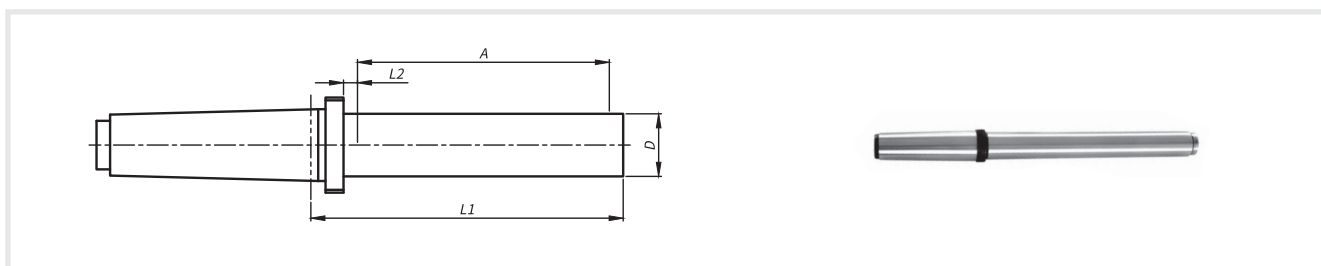
Test Bars with 7:24 Taper



Model	Taper	D	A	L1	L2	Concentricity
SK30-BG32-200-IA2	30	32	200	235	47.8	0.003
SK30-BG32-200-IIA2	30	32	200	235	48.4	0.003
SK40-BG40-200-IA2	40	40	200	235	68.4	0.003
SK40-BG40-200-IIA2	40	40	200	235	65.4	0.003
SK50-BG63-200-A2	50	63	200	235	101.8	0.003
SK60-BG80-200-A2	60	80	200	235	161.8	0.003
SK30-BG32-300-IA2	30	32	300	335	47.8	0.003
SK30-BG32-300-IIA2	30	32	300	335	48.4	0.003
SK40-BG40-300-IA2	40	40	300	335	68.4	0.003
SK40-BG40-300-IIA2	40	40	300	335	65.4	0.003
SK50-BG63-300-A2	50	63	300	335	101.8	0.003
SK60-BG80-400-A2	60	80	400	435	161.8	0.003

莫氏/公制圆锥检验棒

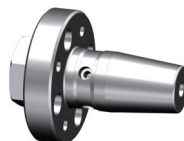
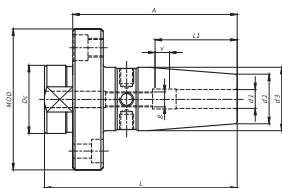
Test Bars with Morse/Metric Taper



Model	Taper	D	A	L1	L2	Concentricity
MK2-BG24-150A2	2	24	150	175	5	0.003
MK3-BG32-200A2	3	32	200	235	5	0.003
MK4-BG40-300A2	4	40	300	335	10	0.003
MK5-BG40-300A2	5	40	300	335	10	0.003
MK6-BG63-300A2	6	63	300	335	10	0.003
KT80-BG63-300A2	80	63	300	335	10	0.003

可调i-tec® 热装夹头模块

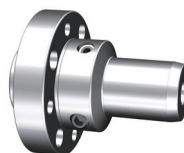
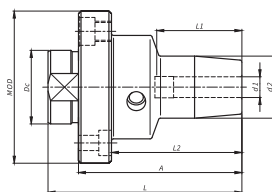
Adjusting module for i-tec®



No.	Model	MOD	d1	A	Dc	d2	d3	l1	g	L	v	kg
431.0194.109	MOD60-SRK6-70	60	6	70	30	21	27	36	M5	82	10	0.6
431.0195.109	MOD60-SRK8-70	60	8	70	30	21	27	36	M6	82	10	0.6
431.0196.109	MOD60-SRK10-70	60	10	70	30	24	32	41	M8×1	82	10	0.7
431.0197.109	MOD60-SRK12-70	60	12	70	30	24	32	47	M10×1	82	10	0.7
431.0202.109	MOD70-SRK14-75	70	14	75	35	27	34	47	M10×1	87	10	1.0
431.0198.109	MOD70-SRK16-75	70	16	75	35	27	34	50	M12×1	87	10	1.0
431.0203.109	MOD80-SRK18-80	80	18	80	40	33	42	50	M12×1	92	10	1.5
431.0199.109	MOD80-SRK20-80	80	20	80	40	33	42	52	M16×1	92	10	1.5
431.0200.109	MOD100-SRK25-80	100	25	80	50	44	53	58	M16×1	92	10	2.5
431.0201.109	MOD100-SRK32-80	100	32	80	50	44	53	61	M16×1	92	10	2.5

可调液压夹头模块

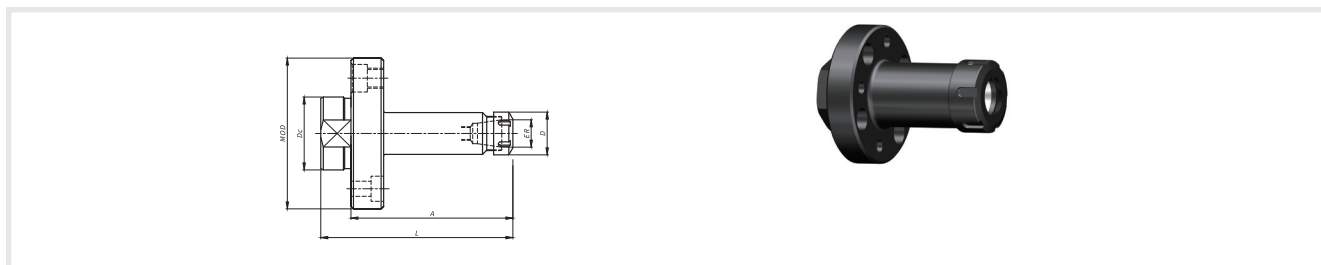
Adjusting module for Hydraulic chucks



No.	Model	MOD	d1	A	Dc	d2	l1	l2	L	kg
702.0001.392	MOD70-HD6-65	70	6	65	35	26	37	50	77	0.9
702.0002.392	MOD70-HD8-65	70	8	65	35	28	37	50	77	0.9
702.0003.392	MOD70-HD10-70	70	10	70	35	30	41	55	82	1.0
702.0004.393	MOD80-HD12-80	80	12	80	40	32	46	63	92	1.4
702.0006.393	MOD80-HD16-85	80	16	85	40	38	49	68	97	1.5
702.0008.393	MOD80-HD20-85	80	20	85	40	42	51	68	97	1.5
702.0009.394	MOD100-HD25-99	100	25	99	50	50	57	78	111	2.7
702.0010.395	MOD117-HD32-103	117	32	103	60	63	61	82	115	3.9

可调ER弹簧夹头模块

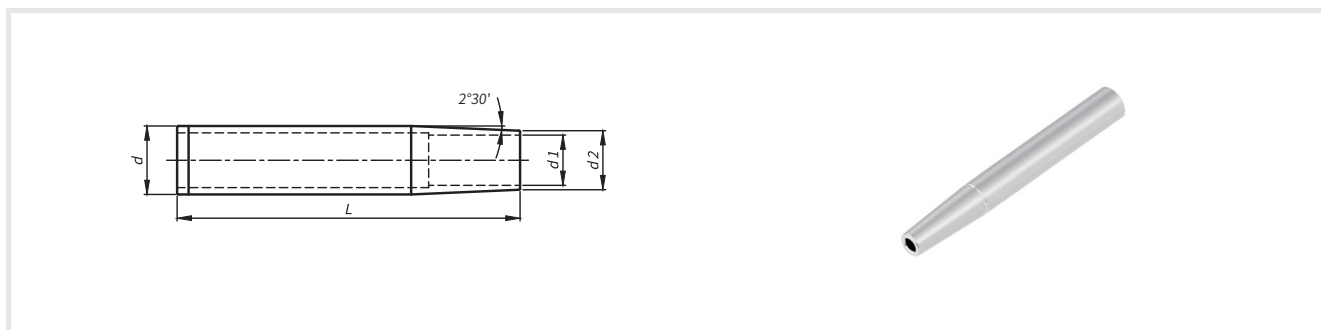
Adjusting module for ER



No.	Model	MOD	ER	A	Dc	D	L	kg
640.0192.041	MOD60-ER11-35	60	ER11(0.5-7)	35	30	19	47	0.4
640.0193.041	MOD60-ER16-40	60	ER16(0.5-10)	40	30	28	52	0.5
640.0194.041	MOD60-ER20-45	60	ER20(1-13)	45	30	34	57	0.6
640.0195.041	MOD80-ER25-45	80	ER25(1-16)	45	40	42	57	1.1
640.0196.041	MOD80-ER32-50	80	ER32(2-20)	50	40	50	62	1.3
640.0197.041	MOD100-ER40-60	100	ER40(3-26)	60	50	63	72	2.4

热装变径杆

i-tec® Shrink-fit Chuck Extensions



No.	Model	d	d1	L	d2	kg
311.610	ST12-SRK3-160	12	3	160	8	0.1
311.611	ST12-SRK4-160	12	4	160	9	0.1
311.620	ST16-SRK3-160	16	3	160	8	0.3
311.621	ST16-SRK4-160	16	4	160	9	0.3
311.622	ST16-SRK5-160	16	5	160	10	0.3
311.623	ST16-SRK6-160	16	6	160	11	0.3
311.633	ST20-SRK6-160	20	6	160	11	0.4
311.663	ST20-SRK6-300	20	6	300	11	0.7
311.634	ST20-SRK8-160	20	8	160	13	0.4
311.664	ST20-SRK8-300	20	8	300	13	0.7
311.635	ST20-SRK10-160	20	10	160	15	0.4
311.636	ST20-SRK12-160	20	12	160	17	0.4
311.645	ST25-SRK10-160	25	10	160	15	0.6
311.675	ST25-SRK10-300	25	10	300	15	1.2
311.646	ST25-SRK12-160	25	12	160	17	0.6
311.676	ST25-SRK12-300	25	12	300	17	1.2
311.648	ST25-SRK14-160	25	14	160	19	0.6
311.677	ST25-SRK16-300	25	16	300	21	1.2
311.688	ST32-SRK20-300	32	20	300	25	1.9

使用:代替热缩刀柄,可以使用液压刀柄或弹簧夹头刀柄。

Use: To be used in i-tec* shrink fit chucks,hydraulic xpansionchucks or collet chucks.

规格:细长型。

Design: Slim version The clamping diameter is designed for a shank tolerance of h6.

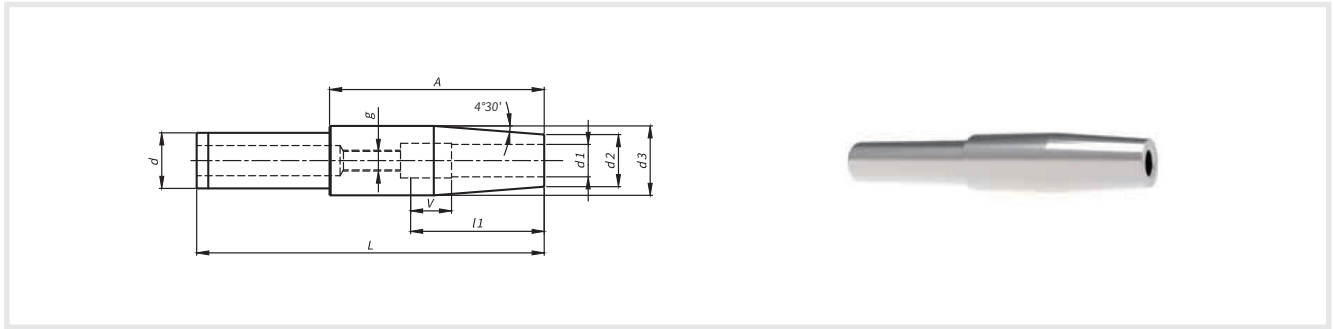
刀具柄部应符合h6公差。

Note: Other designs and sizes areavailable on request.

注意:其他型号和尺寸可按订货要求制作。

热装变径杆

i-tec® Shrink-fit Chuck Extensions



No.	Model	d	d1	L	d2	d3	L1	g	A	V	kg
311.804	ST16-SRK6-120	16	6	120	15	20.0	36	M5	70	10	0.3
311.805	ST16-SRK8-120	16	8	120	15	20.0	36	M6	70	10	0.3
311.811	ST20-SRK6-160	20	6	160	15	19.9	36	M5	110	10	0.4
311.812	ST20-SRK8-160	20	8	160	15	19.9	36	M6	110	10	0.4
311.813	ST20-SRK10-160	20	10	160	18	24.0	41	M8×1	110	10	0.6
311.863	ST25-SRK10-160	25	10	160	18	24.9	41	M8×1	110	10	0.4
311.864	ST25-SRK12-160	25	12	160	18	24.9	47	M10×1	110	10	0.4
311.823	ST32-SRK12-160	32	12	160	18	32.0	47	M10×1	-	10	0.5
311.829	ST32-SRK14-160	32	14	160	21	32.0	47	M10×1	-	10	0.5
311.824	ST32-SRK16-160	32	16	160	21	32.0	53	M12×1	-	10	0.5
311.825	ST32-SRK20-160	32	20	160	27	32.0	55	M16×1	-	10	0.5

使用:代替热缩刀柄,可以使用液压刀柄或弹簧夹头刀柄。

规格:细长型。

刀具柄部应符合h6公差。

注意:其他型号和尺寸可按订货要求制作。

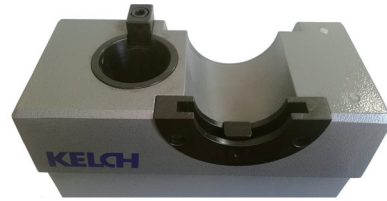
Use: To be used in i-tec* shrink fit chucks,hydraulic xpansionchucks or collet chucks.

Design: Slim version The clamping diameter is designed for a shank tolerance of h6.

Note: Other designs and sizes areavailable on request.

卸刀器

Mounting Units



主体订货号: 126.100 型号: Clamp-FIX..... 备注: 卸刀器主体尺寸330×150×180, 重量9.8KG。

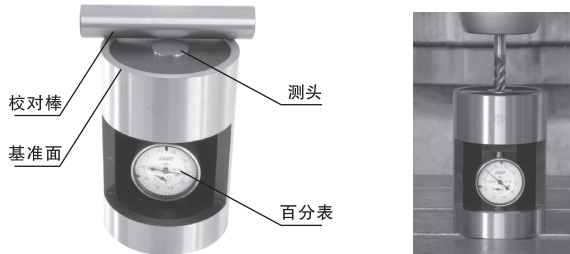
No.	Flange	Size	Standard
126.101	126.201	ST30	DIN2080
126.102	126.202	ST40	DIN2080
126.104	126.204	ST50	DIN2080
126.123	126.223	JT30	DIN 69871
126.111	126.211	JT40	DIN 69871
126.107	126.207	JT50	DIN 69871
126.128	126.228	BT30	JIS B 6339
126.109	126.209	BT40	JIS B 6339
126.110	126.210	BT50	JIS B 6339
126.153	126.253	HSK50	HSK A-F
126.154	126.254	HSK63	HSK A-F
126.155	126.255	HSK80	HSK A-F
126.156	126.256	HSK100	HSK A-F

设计: 此卸刀器装配件包含锥套。

Design: The device includes the corresponding of Tapers Sleeves.

轴向对刀器 型号:SL001 货号:440.0006.220

Axial Toll Adjusters



使用说明

- 1、首先用手按压住校对棒压下测头，使测头与基准面处于同一面。同时调整百分表刻度盘，使其归零。
- 2、再分别用参与加工的刀具压下测头，使百分表归零，这时各个刀具与机床工作台距离都为120mm。

径向对刀器 型号:SL002 货号:440.0001.220

Radial Toll Adjusters

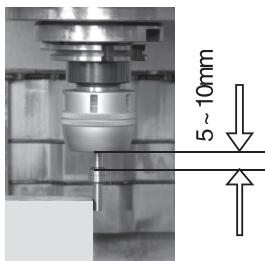
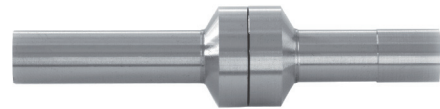


图 1

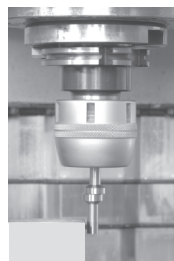


图 2

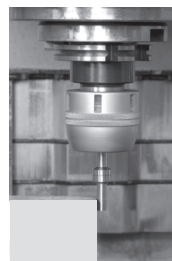


图 3



图 4

使用方向出厂标准产品包括:卸刀器包括主体和法兰两部分,法兰可根据实际使用方向的刀柄进行选配。

注意事项

- 1、不要弯曲,拉伸。
- 2、使用方向最高转速不得超过600rpm。
- 3、滑动面不允许有灰尘。

使用方向出厂标准产品包括:

- 1、(如图1)用能够夹持10直柄的强力铣夹头或弹簧夹头,夹紧此测量杆
- 2、(如图2)用手轻轻按侧头侧面,使其偏心0.5mm.转速采用400-580rpm,使侧头接触工件端面。
- 3、(如图3)使侧头无径向圆跳动,即恰好静止。
- 4、(如图4)再以微进给使之与工件接触上,侧头向一侧滑动,这滑动起始点即是所测的基准位。机床上显示的实际坐标减去侧头半径5mm,即为工件主体端面坐标位置。

Instructions for use: The knife unloader consists of two parts-the main body and the flange, which can be selected according to the actual knife handle.

matters need attention:

1. Don't bend, stretch.
2. The maximum rotation speed shall not exceed 600rpm.
3. No dust is allowed on the sliding surface.

There is the guide in the following of the installing :

(Figure 1) Clamp the measuring rod with a powerful milling clamp or spring clamp that can hold the 10 straight handle.

(Figure 2) Gently press the side of the side head by hand to make it eccentric by 0.5mm. The rotation speed is 400-580rpm to make the side head contact the end surface of the work piece.

(Figure 3) Make the side head beat without radial round, that is, just static.

(Figure 4) Make contact with the work piece on the side head Slide to the side, and the sliding start point is the measured reference position. The actual coordinate shown on the machine tool minus the side head radius of 5mm, which is the coordinate position of the end face of the work piece body.

安全使用切削工具的注意事项

(一) 工作前的准备与防护

- 1.工作前先穿好工作服、安全鞋，戴好防护帽、防护眼镜以及防护手套；女士禁止穿裙子，并且请将您的秀发挽起，戴好工作帽，防止安全事故的发生。
- 2.请将您的首饰、手表等配饰收进安全的地方；防止给您带来不必要的经济损失，也防止给您带来的安全威胁。
- 3.请将机床旁边的障碍物清理掉，保证刀具有足够的切削空间。
- 4.使用的刀具应与机床允许的规格相符合，有严重的破损的刀具要及时更换。
- 5.在运行加工前，请检查刀具的装夹是否稳固紧锁；手动加工前，请保证刀架移动速度在可控范围内。
- 6.预热时，请检查卡盘夹紧工作的状态；安装调试时，请进行1-2次的试用切削。
- 7.大尺寸轴类零件请检查中心孔是否合适，谨防工作中出现危险。

(二) 工作过程中的安全事项

- 1.禁止用手接触刀尖和铁屑，请用专业的毛刷或铁钩子处理。
- 2.刀具正在工作切削时，请勿清理刀具以及相关配件，更不要用棉制物和丝织物清理刀具。
- 3.数控车床一般采用单频和双频的开关机，不得将手放在切削范围内，更不能用手触摸工作状态的刀具。
- 4.数控刀具的主轴转速要与刀具相匹配，不得与主轴同心，刀尖应与工件保持平行。
- 5.数控车床切削用量的选择。要选择与工况相适宜的刀柄的切削速度、进给量以及背吃刀量。

(三) 数控刀具以及相应配件的清洗以及保养

- 1.数控刀具在加工完成后请使用清水或洗涤剂立即进行清洗。请不要使用含有酸碱或腐蚀性的清洁剂清洁刀具，如有金属切屑或者切削油污等杂物，可以购买铜丝刮刀等擦拭去掉。
- 2.清洗过的数控刀具需要将表面涂上一层薄薄的切削油，再放入工具库中。下次使用时，用布拭去表面的切削油在进行切削。

(四) 数控刀柄的贮存与更换

- 1.刀具应该放在干燥、通风、无腐蚀性气体污染的地方；长时间不用的刀柄请进行防锈处理。
- 2.当数控刀具已经出现问题，请联系我公司有关售后部门，将相关参数发与我司相关人员，我们将竭诚为您提供最好的服务。

注：未经本公司允许，擅自改造本公司的任何产品所引发的任何事故，本公司不承担任何责任。



(I) Preparation and Protection Before Operation

- 1.Before operation, please wear work suit,protective shoes, wear helmet, protective glasses and protective gloves, women forbid wear skirts, and should pull up your hair and wear work caps to avoid the safety accidents.
- 2.Forbid to take your jewelry, watches and other ornaments, avoid the safety accident o occurred and prevent bring the economic losses to you .
- 3.Clearing up the obstacles next to the machine tools before operation to ensure that the tools has enough cutting space.
- 4.The tools of using should comply with the allowable specifications of the machine tools, and forbid to use the badly damaged tools.
- 5.Before operation, to check whether the tools clamping is stable and locked, before manual machining, ensure that the movement speed of the tools is within a controllable range.
- 6.During preheating, check the working state of the tray clamp, perform 1-2 trial cuts during installation and debugging.
- 7.For large-size shaft parts, please check whether the center hole is suitable to guard against danger at work.

(II) Safety Matters in the Process of Work

- 1.It is forbidden to touch the tools tip and iron scraps by hand. Please use a professional brush or iron hook.
- 2.When the tools is in the working state, do not clean the tools and related accessories, and do not use cotton fabric and silk fabric to clean the tools.
- 3.In the cutting operation, do not put the hand in the cutting range, and can not touch the working tools by hand.
- 4.The spindle speed of the CNC tools should match the application parameters of CNC tools , and to avoid concentric with the spindle, and the tools tip should keep parallel to the work piece.
- 5.The tools should choose the cutting amount suitable for the working condition,and select the appropriate cutting speed, feed amount and the back cutting amount.

(III) The Cleaning and Maintenance and Accessories of the Tools

- 1.Clean tools with water or detergent immediately after operation, forbid to use cleaner containing acid, alkali or corrosion. If there has metal scrap or oil cutting debris, you can buy copper wire scraper to remove them.
- 2.The cleaned tools needs to coat the surface with a thin layer of cutting oil, and then put it into the tool library. For next use, wipe the cutting oil with the cloth.

(IV) The Storage and Replacement of the Tools

- 1.The tools should be store in placed in the dry place, which place without corrosive gas pollution.If you spare with a long time,you should anti-rust treatment.
- 2.If our tools with any problems, please contact the relevant after-sales department of our company,and send the relevant parameters and pictures to our relevant personnel, we will wholeheartedly provide you with the best service.

Note: The Company shall not be liable for any accident caused by any product modification of the Company without the permission of the Company. 

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