

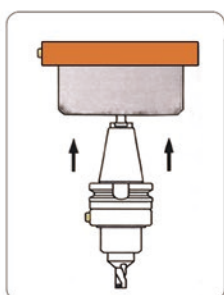
油路刀柄

TOOL HOLDERS (OIL COOLANT)

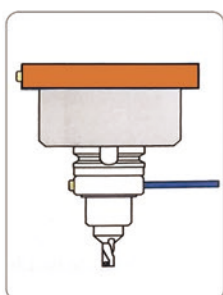


- 内置进口轴承，设计灵巧，密封结构，刀柄装卸轻松
- 双螺丝压紧方式，双重锁紧性能稳定，确保加工精度
- 整体研磨，适合高精机床
- Built with imported bearings, featuring a clever design and sealed structure, allowing easy installation and removal of the tool holder.
- Dual-screw clamping method with double locking ensures stable performance and guarantees machining accuracy
- Entirely ground, suitable for high-precision machine tools

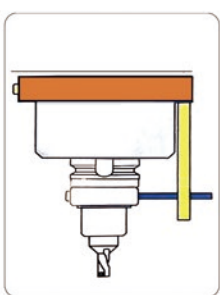
使用方法：Usage method



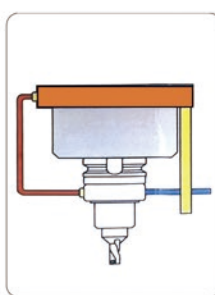
1.把刀柄装主轴上
1.Install the handle onto the spindle



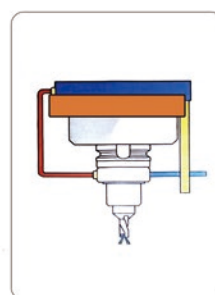
2.刀柄拧上1号限位杆
2.Twist the No.1 limit rod onto the handle of the knife



3.主轴端面拧上2号限位杆(2号限位杆根据自家机床自配)
3. Screw on the 2nd limit rod on the spindle end face (the 2nd limit rod is customized according to the machine tool)



4.安装快速接口水管
4.Install quick interface water pipes



5.选通水，再转动主轴，就可以使用了。(注意：在主轴转动过程中不能中断供水)
5. Select the water and then rotate the spindle to use it. (Note: Do not interrupt the water supply during the spindle rotation process)

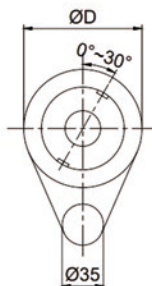
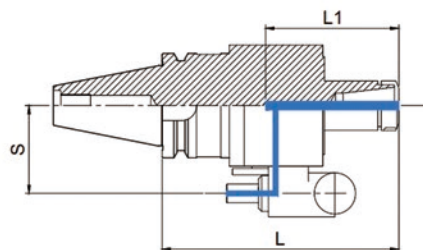




自动换刀油路刀柄

A1531010-A1531018 订单号 Order NO.

AUTOMATIC TOOL CHANGE COCHUCK (OIL TOOLHOLDER)



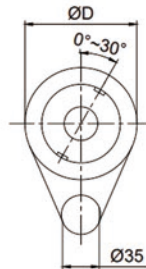
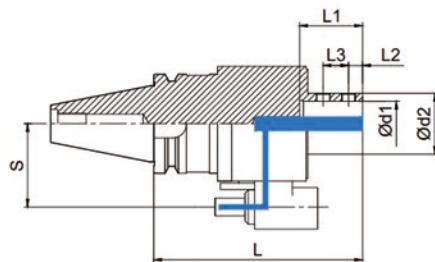
- 内置进口轴承，设计灵巧，密封结构，刀柄装卸轻松
- 双螺丝压紧方式，双重锁紧性能稳定，确保加工精度
- 整体研磨，适合高精机床
- Imported bearings, flexible design, sealed structure, easy loading and unloading.
- Double screw compression method, with stable dual locking performance to ensure machining accuracy
- Overall grinding, suitable for high-precision machine tools

Order NO.	Type	L	L1	S	D	Clamping range 夹持范围	NW (kg)	Price
A1531010	BT40-0LER16-160	160	90	65	82	1-10	3.8	
A1531011	BT40-0LER20-160					1-13	4.1	
A1531012	BT40-0LER25-160					2-16	4.3	
A1531013	BT40-0LER32-160					2-20	4.5	
A1531014	BT50-0LER16-160	160	90	80	98	1-10	7	
A1531015	BT50-0LER20-160					1-13	7.1	
A1531016	BT50-0LER25-160					2-16	7.2	
A1531017	BT50-0LER32-160					2-20	7.3	
A1531018	BT50-0LER40-160					4-26	7.5	

自动换刀油路刀柄

▼ **A1541010-A1541018** 订单号 Order NO.

AUTOMATIC TOOL CHANGE HOLDER (OIL TOOLHOLDER)



Order NO.	Type	L	L1	L2	L3	D	d1	d2	S	T	NW (kg)	Price
A1541010	BT40-0SL16-150	150	48	25	—	φ82	16	50	65	M12-1.75P	3.1	
A1541011	BT40-0SL20-150		50				20				3.5	
A1541012	BT40-0SL25-165		56				25				3.5	
A1541013	BT40-0SL32-165		60				32				7.8	
A1541014	BT50-0SL16-165	165	48	25	—	φ98	16	59	80	M12-1.75P	7	
A1541015	BT50-0SL20-165		50				20				7.5	
A1541016	BT50-0SL25-165		56				25				7.5	
A1541017	BT50-0SL32-165		60				32				9.05	
A1541018	BT50-0SL40-165		62		25		40			M16-2.0P	8.5	

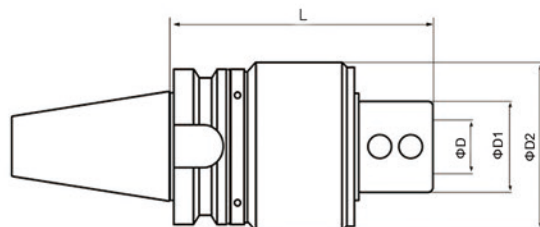




手动换刀油路刀柄

A1551010-A1551023 订单号 Order NO.

NON-AUTO TOOL CHANGE HOLDER (OIL TOOLHOLDER)

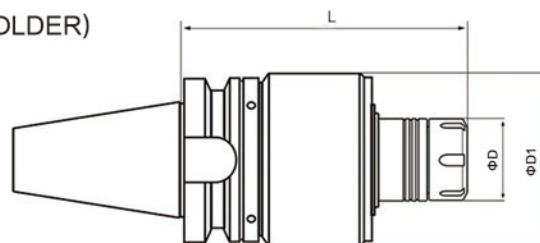


Order NO.	Type	L	ΦD	ΦD1	ΦD2
A1551010	BT30-OHS25-170	160	25	57	92
A1551011	BT30-OHS32-170		32	57	92
A1551012	BT30-OHS40-170		40	58	92
A1551013	BT40-OHS16-170	170	16	57	92
A1551014	BT40-OHS20-170		20	57	92
A1551015	BT40-OHS25-170		25	57	92
A1551016	BT40-OHS32-170		32	57	92
A1551017	BT40-OHS40-170		40	58	92
A1551018	BT50-OHS16-170		16	57	92
A1551019	BT50-OHS20-170		20	57	92
A1551020	BT50-OHS25-170		25	57	92
A1551021	BT50-OHS32-170		32	57	92
A1551022	BT50-OHS40-170		40	58	92
A1551023	BT50-OHS50-210	210	50	85	135

手动换刀油路刀柄

▼ **A1561010-A1561020** 订单号 Order NO.

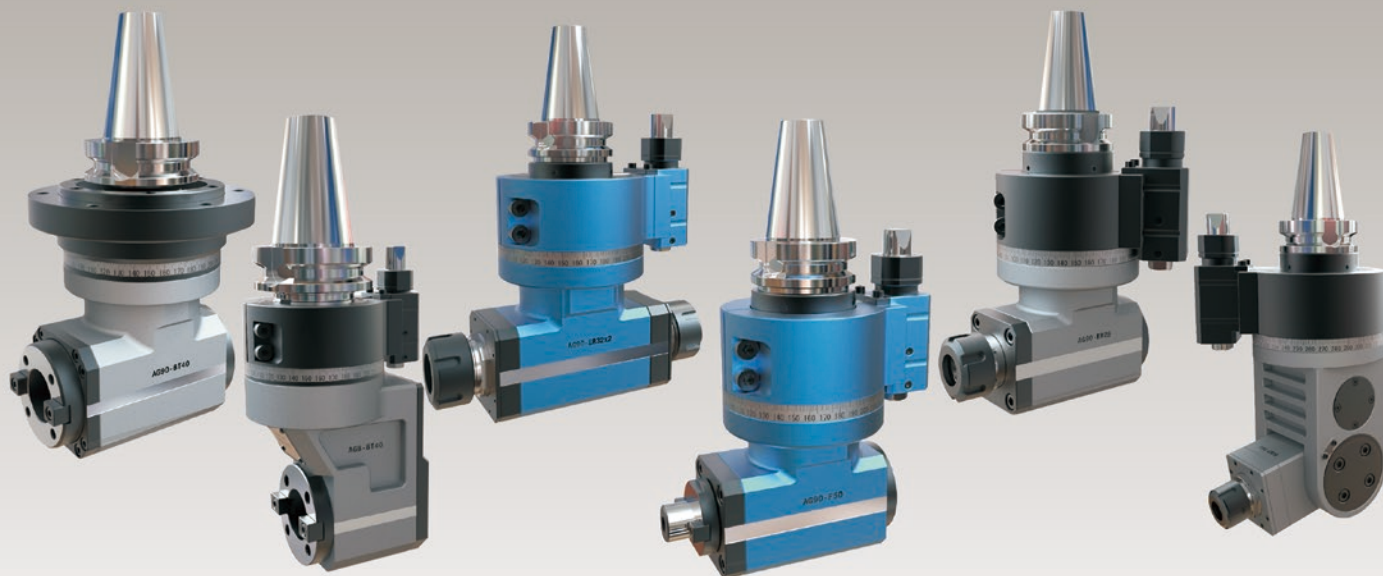
NON-AUTO TOOL CHANGE COLLETS CHUCK (OIL TOOLHOLDER)



Order NO.	Type	L	ΦD	ΦD1
A1561010	BT30-OHER25-170	160	42	92
A1561011	BT30-OHER32-170		52	92
A1561012	BT30-OHER40-170		63	92
A1561013	BT40-OHER16-170	170	28	92
A1561014	BT40-OHER20-170		34	92
A1561015	BT40-OHER25-170		42	92
A1561016	BT40-OHER32-170		52	92
A1561017	BT40-OHER40-170		63	92
A1561018	BT50-OHER25-170		42	92
A1561019	BT50-OHER32-170		52	92
A1561020	BT50-OHER40-170		63	92

角度头系列

ANGLE HEAD SERIES



• 轴承

日本高精密角接触球轴承
High precision bearings produced in Japan



• 使用伞形齿轮

德国高精度伞形齿轮
High precision bevel gears produced in Germany



• 独特的密封机构

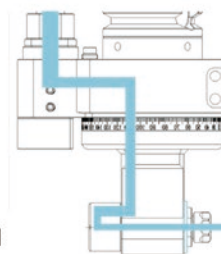
在原来的密封机构上进一步改良，防尘，防水效果更显著
Unique sealing structure



• 对应刀尖给油 Coolant

从定位块供应切削液，经过角度头本体内部准确地喷向刀尖，切削液同时可冷冷却本体（除万能型）。另外，还新推出了中心内冷型。

Coolant is supplied from the positioning block, accurately directed through the angle head body to the tool tip, while also cooling the body (except for the universal type). Additionally, a new center-through coolant type has been introduced.





AG90系列 → 90° 输出型

AGU系列 → 万向型

HCU系列 → 重型削型

非标定制型

GSC系列 → 高速切削型

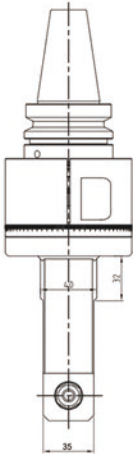
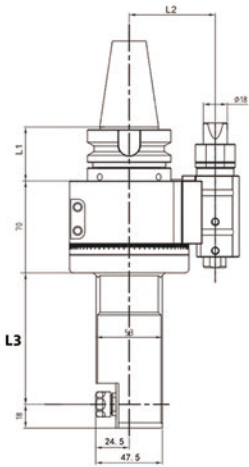


可选驱动刀柄型号:BT、NT、CAT、DAT、HSK

AG90-ER11F角度头
G011010-G011011 订单号Order NO.

AG90-ER11F ANGLE HEAD

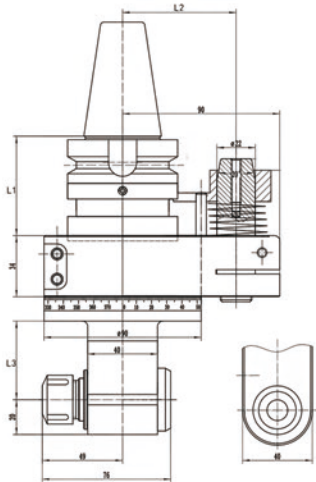
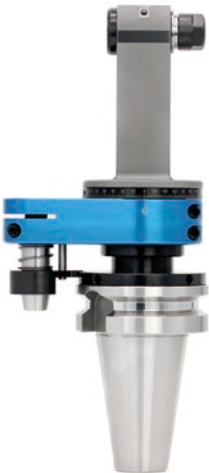
SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100



Order NO.	Type	Output 输出	L1	L2	L3	Maximum speed 最大功率	Maximum speed 最高转速	Maximum torque 最高扭矩	Speed ratio 转速比	Lubrication 润滑	Rotation direction 旋向	Price
G011010	AG90-ER11F-80	ER11	41/48	65/80	80	1KW	5000PPM	6NM	1: 1	润滑脂	CW-CW	
G011011	AG90-ER11F-100	ER11	41/48	65/80	100	1KW	5000PPM	6NM	1: 1	润滑脂	CW-CW	

AG90-ER16角度头
G021010-G021012 订单号Order NO.

AG90-ER16 ANGLE HEAD



Order NO.	Type	Output 输出	L1	L2	L3	Maximum speed 最大功率	Maximum speed 最高转速	Maximum torque 最高扭矩	Speed ratio 转速比	Lubrication 润滑	Rotation direction 旋向	Price
G021010	AG90-ER16F-45	ER16	41/48	65/80	45	1KW	5000PPM	6NM	1: 1	润滑脂	CW-CW	
G021011	AG90-ER16F-100	ER16	41/48	65/80	100	1KW	5000PPM	6NM	1: 1	润滑脂	CW-CW	
G021012	AG90-ER16F-120	ER16	41/48	65/80	120	1KW	5000PPM	6NM	1: 1	润滑脂	CW-CW	



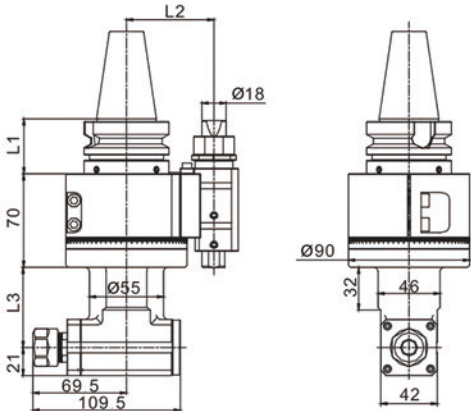
AG90-ER16角度头

G031010-G031012 订单号Order NO.

AG90-ER16 ANGLE HEAD

可选驱动刀柄型号:BT、NT、CAT、DAT、HSK

		
SK30/40/50	CAT30/40/50	BT30/40/50
		
KM63/80/100	ISO30/40/50	HSK63/80/100

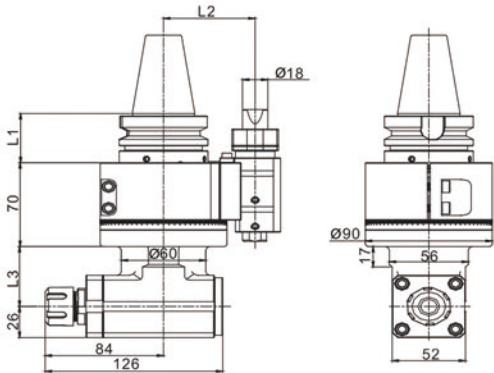


Order NO.	Type	Output 输出	L1	L2	L3	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最高扭矩	Speed ratio 转速比	Lubrication 润滑	Rotation direction 旋向	Price
G031010	AG90-ER16-60	ER16	41/48	65/80	60	1.5KW	5000RPM	12NM	1:1	润滑脂	CCW-CW	
G031011	AG90-ER16-120	ER16	41/48	65/80	120	1.5KW	5000RPM	12NM	1:1	润滑脂	CCW-CW	
G031012	AG90-ER16-180	ER16	41/48	65/80	180	1.5KW	5000RPM	12NM	1:1	润滑脂	CCW-CW	

AG90-ER20角度头

▼ G041010-G041012 订单号Order NO.

AG90-ER20 ANGLE HEAD



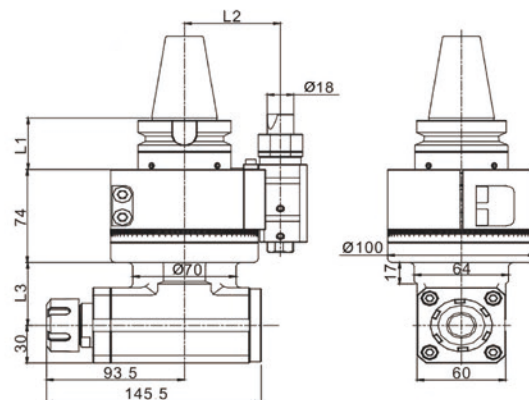
Order NO.	Type	Output 输出	L1	L2	L3	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最高扭矩	Speed ratio 转速比	lubrication 润滑	Rotation direction 旋向	Price
G041010	AG90-ER20-50	ER20	41/48	65/80	50	2KW	4000RPM	16NM	1:1	润滑脂	CCW-CW	
G041011	AG90-ER20-110	ER20	41/48	65/80	110	2KW	4000RPM	16NM	1:1	润滑脂	CCW-CW	
G041012	AG90-ER20-170	ER20	41/48	65/80	170	2KW	4000RPM	16NM	1:1	润滑脂	CCW-CW	



AG90-ER25角度头

G051010-G051016 订单号 Order NO.

AG90-ER25 ANGLE HEAD



可选驱动刀柄型号: BT、NT、CAT、DAT、HSK

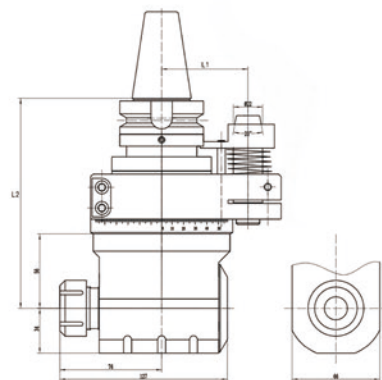
SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

Order NO.	Type	Output 输出	L1	L2	L3	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	Lubrication 润滑	Rotation direction 旋向	Price
G051010	AG90-ER25-50	ER25	41/48	65/80	50	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G051011	AG90-ER25-110	ER25	41/48	65/80	110	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G051012	AG90-ER25-170	ER25	41/48	65/80	170	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G051013	AG90-ER25-230	ER25	41/48	65/80	230	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G051014	AG90-ER25-300	ER25	41/48	65/80	300	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G051015	AG90-ER25-370	ER25	41/48	65/80	370	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G051016	AG90-ER25-430	ER25	41/48	65/80	430	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	

AG90-BT40-ER25-56-0角度头

▼ G061010-G061011 订单号 Order NO.

AG90-BT40-ER25-56-0 ANGLE HEAD



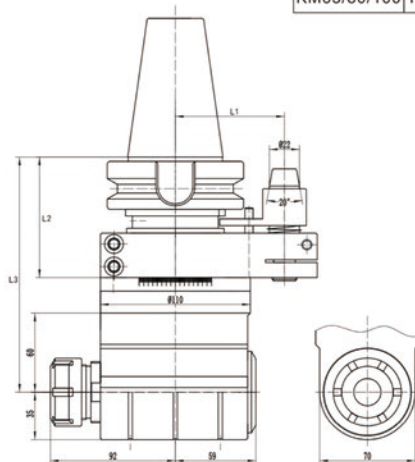
Order NO.	Type	Output 输出	L1	L2	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	Rotation direction 旋向	Lubrication 润滑	N.W (kg)	Price
G061010	AG90-BT40-ER25-56-O	ER25	65	158	4KW	5000RPM	40NM	1:1	CCW-CW	润滑脂	61	
G061011	AG90-BT50-ER25-56-O	ER25	80	169	4KW	5000RPM	40NM	1:1	CCW-CW	润滑脂	9	



AG90-ER32-60-0角度头

G071010-G071011 订单号 Order NO.

AG90-ER32-60-0 ANGLE HEAD



可选驱动刀柄型号: BT、NT、CAT、DAT、HSK

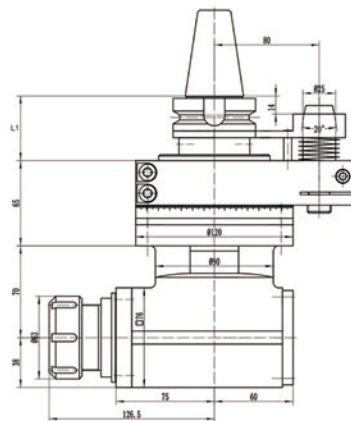
SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

Order NO.	Type	Output 输出	L1	L2	L3	Maximum speed 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	Lubrication 润滑	Rotation direction 旋向	N.W (kg)	Price
G071010	AG90-BT40-ER32-60-0	ER32	80	101	161	4KW	5000PPM	40NM	1: 1	润滑脂	CW-CW	7	
G071011	AG90-BT50-ER32-60-0	ER32	80	112	172	4KW	5000PPM	40NM	1: 1	润滑脂	CW-CW	9	

AG90-ER40-70A角度头

▼ G081010-G081011 订单号 Order NO.

AG90-ER40-70A ANGLE HEAD



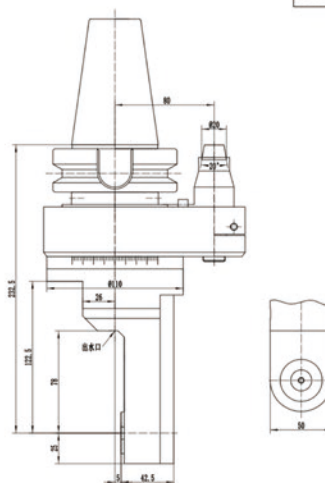
Order NO.	Type	Output 输出	L1	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	Rotation direction 旋向	Lubrication 润滑	N.W (kg)	Price
G081010	AG90-BT40-ER40-70A	ER40	49.5	6KW	3000RPM	75NM	1:1	CW-CCW	润滑脂	9	
G081011	AG90-BT50-ER40-70A	ER40	60.5	6KW	3000RPM	75NM	1:1	CW-CCW	润滑脂	12	



AG90-10PF-80角度头

G091010-G091010 订单号Order NO.

AG90-10PF-80 ANGLE HEAD



可选驱动刀柄型号:BT、NT、CAT、DAT、HSK

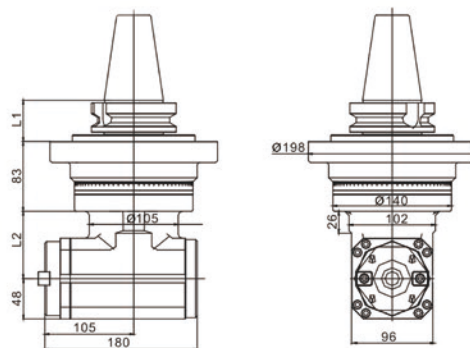
SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

Order NO.	Type	Output 输出	L1	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	Rotation direction 旋向	Lubrication 润滑	N.W (kg)	Price
G091010	AG90-BT50-10PF-80	非标筒夹	80	3KW	4500RPM	32NM	1:1	CW-CW	润滑脂	8	

AG90-BT40角度头

▼ G101010-G101012 订单号Order NO.

AG90-BT40 ANGLE HEAD



Order NO.	Type	Output 输出	L1	L2	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	Rotation direction 旋向	Lubrication 润滑	Price
G101010	AG90-BT40-80	BT40	41/48	80	6KW	3500RPM	100NM	1:1	CCW-CW	润滑脂	
G101011	AG90-BT40-80	BT40	41/48	160	6KW	3500RPM	100NM	1:1	CCW-CW	润滑脂	
G101012	AG90-BT40-80	BT40	41/48	240	6KW	3500RPM	100NM	1:1	CCW-CW	润滑脂	



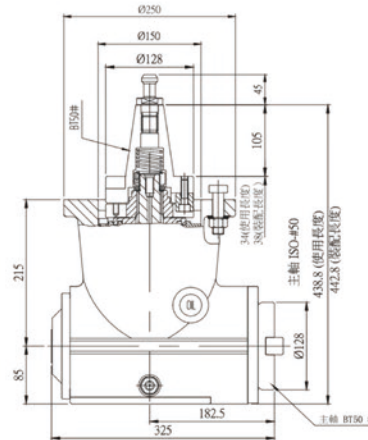
AG90-BT50角度头

G111010-G111010 订单号Order NO.

AG90-BT50 ANGLE HEAD

可选驱动刀柄型号:BT、NT、CAT、DAT、HSK

Sk50	CAT50	Bt50
Km100	ISO50	HSK100

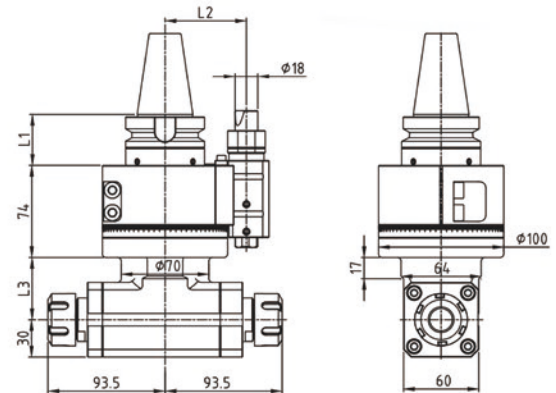


Order NO.	Type	Spindle taper 主轴锥度	Disc diameter 2/3 盘径2/3	Outer diameter of spindle end 主轴端外径	Maximum diameter of cutterhead 刀盘最大直径	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	Rotation direction 旋向	lubrication 润滑	N.W (kg)	Price
G111010	HCU-BT50-S	BT50	250/300	128.5	Φ200	38KW	1200/2500PRM	130NM	1: 1	CCW-CW	润滑脂	80	

AG90-ER25X2角度头

▼ G121010-G121012 订单号Order NO.

AG90-ER25X2 ANGLE HEAD



Order NO.	Type	Output 输出	L1	L2	L3	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最大扭矩	Speed ratio 转速比	lubrication 润滑	Rotation direction 旋向	Price
G121010	AG90-ER25X2-50	ER25	41/48	80/110	70	3KW	4500RPM	32NM	1:1	润滑脂	CCW-CW	
G121011	AG90-ER25X2-110	ER25	41/48	80/110	150	3KW	4500RPM	32NM	1:1	润滑脂	CCW-CW	
G121012	AG90-ER25X2-170	ER25	41/48	80/110	230	3KW	4500RPM	32NM	1:1	润滑脂	CCW-CW	

CNC JieHe

LU-ER25角度头/LU-ER32角度头
LU-ER25 ANGLE HEAD/ LU-ER32 ANGLE HEAD



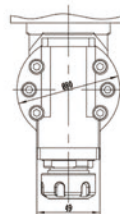
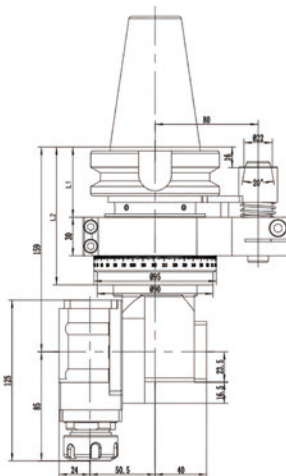
LU-ER25角度头

G131010-G131010 订单号Order NO.

LU-ER25 ANGLE HEAD

可选驱动刀柄型号:BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

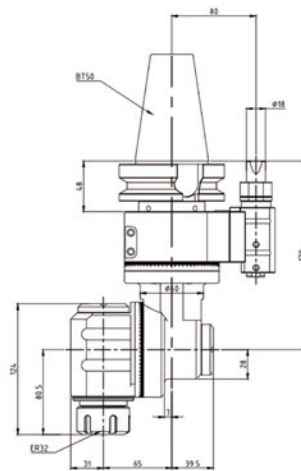
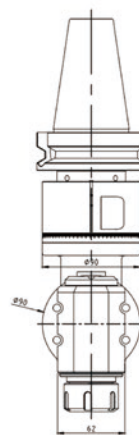


Order NO.	Type	Output 输出	L1	L2	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最高扭矩	Speed ratio 转速比	lubrication 润滑	Rotation direction 旋向	Price
G131010	LU-ER25	ER25	43.5/54.5	96/107	3KW	4500RPM	32NM	1:1	润滑脂	CCW-CW	

LU-ER32系列

▼ **G141010-G141010** 订单号Order NO.

LU-ER32 ANGLE HEAD



Order NO.	Type	Output 输出	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最高扭矩	Speed ratio 转速比	lubrication 润滑	Rotation direction 旋向	Price
G141010	LU-ER32	ER32	3KW	3500RPM	32NM	1:1	润滑脂	CW-CW	

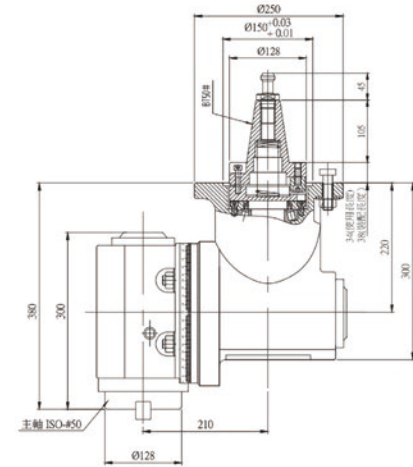
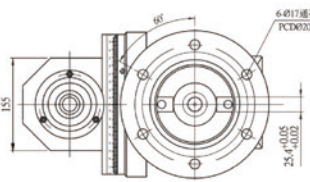




HGU-BT50角度头

G151010-G151010 订单号 Order NO.

HGU-BT50 ANGLE HEAD



可选驱动刀柄型号: BT、NT、CAT、DAT、HSK

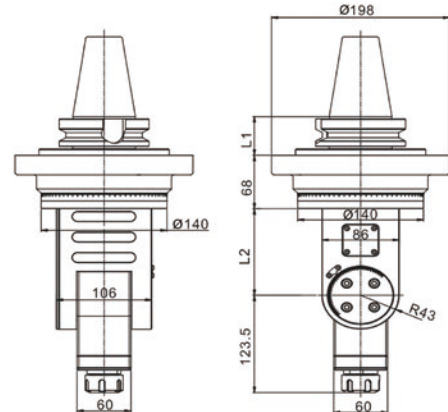
SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

Order NO.	Type	Output 输出	Power 功率	Maximum speed 最高转速	Maximum tool diameter 最大刀具直径	Speed ratio 转速比	Price
G151010	HGU-BT50	BT50	38KW	2000RPM	32NM	1:1	

AUG-ER25角度头

▼ G161010-G161012 订单号 Order NO.

AUG-ER25 ANGLE HEAD



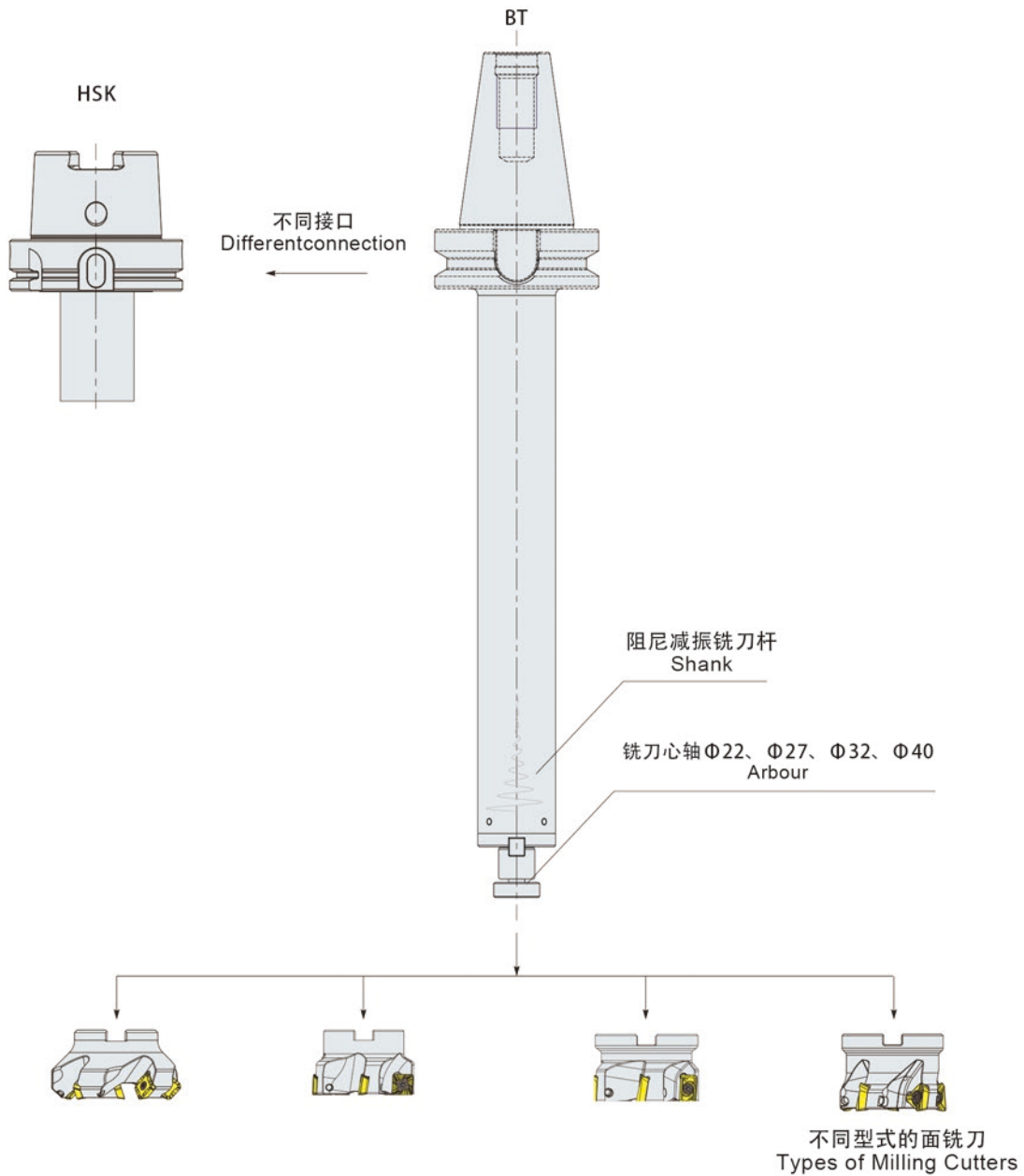
Order NO.	Type	Output 输出	L1	L2	maximum power 最大功率	Maximum speed 最高转速	Maximum torque 最高扭矩	Speed ratio 转速比	lubrication 润滑	Rotation direction 旋向	Price
G161010	AUG-ER25-110	ER25	41/48	110	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G161011	AUG-ER25-170	ER25	41/48	170	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	
G161012	AUG-ER25-230	ER25	41/48	230	3KW	4000RPM	32NM	1:1	润滑脂	CCW-CW	



阻尼减振铣刀杆

G171010-G171015 订单号 Order NO.

DAMPING FACE MILLING CUTTER ADAPTOR

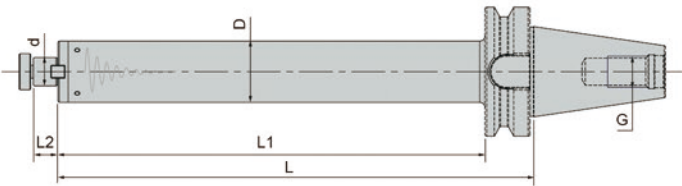




阻尼减振铣刀杆

G171010-G171015 订单号Order NO.

DAMPING FACE MILLING CUTTER ADAPTOR



Order NO.	规格型号 Designation	L	D	d	L1	L2	G	Bar	N.W (kg)	适配刀盘 Insert	Price
G171010	BT50 FMB22-D48-300V	300	47.5	22	262	19	24	70	7.15	50	
G171011	BT50 FM22-D48-370V	371	47.5	22	333	19	24	70	8.16	50	
G171012	BT50 FM22-D60-360V	360	60	22	322	19	24	70	10.19	63	
G171013	BT50 FIA22-D60-460V	460	60	22	422	19	24	70	12.39	63	
G171014	BT50 FM27-D76-470V	470	76	27	432	21	24	70	17.94	80	
G171015	BT50 FM27-D76-570V	572	76	27	534	21	24	70	21.2	80	

- 刀具有内冷出水孔
 • 若出现减振能力下降时，建议维修保养
- With coolant hole.
 • Suggest doing the maintenance when damping capacity is weaker than before.

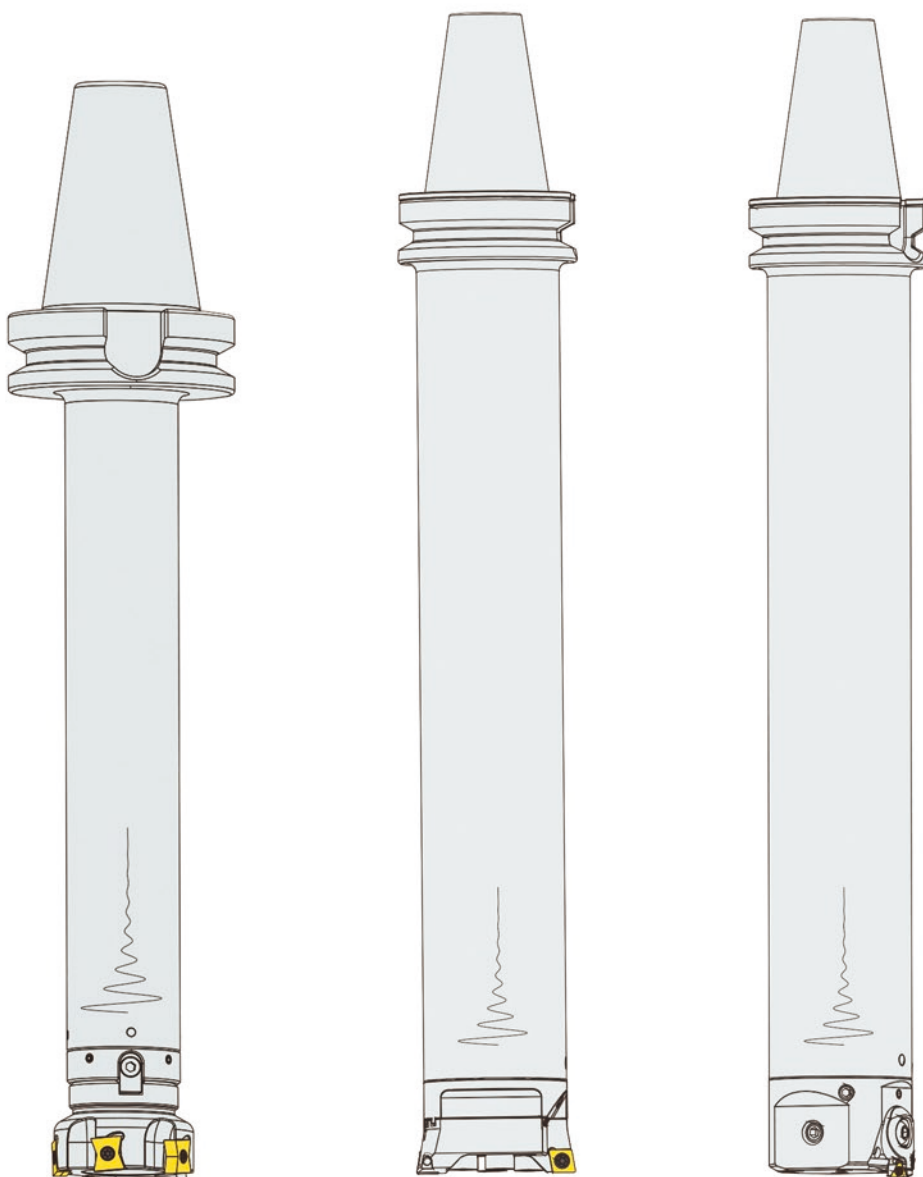




非标阻尼减振刀具

G171010-G171015 订单号 Order NO.

CUSTOMIZABLE DAMPING TOOL HOLDERS





非标阻尼减振刀具

G171010-G171015 订单号 Order NO.

CUSTOMIZABLE DAMPING TOOL HOLDERS

