回转顶尖系列

LIVE CENTER SERIES



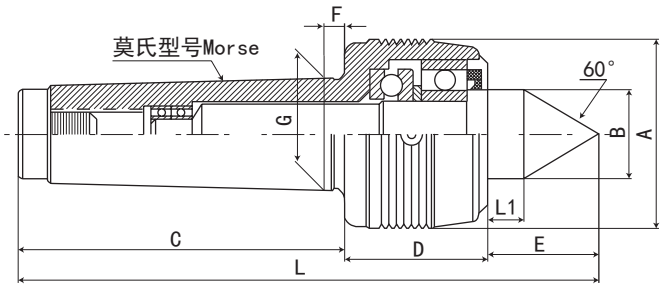
回转顶尖系列

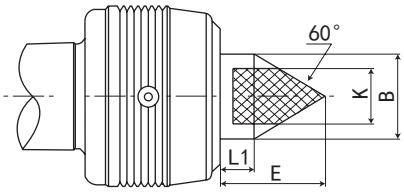
LIVE CENTER SERIES

中型回转顶尖（注油式） MEDIUM-DUTY LIVE CENTER（OILING TYPE）







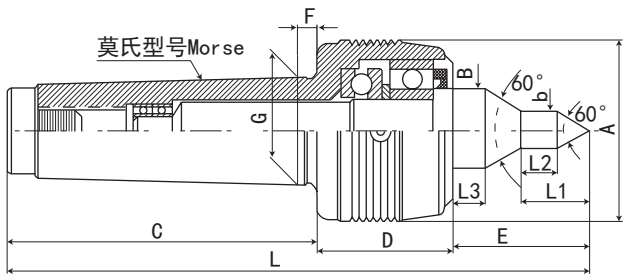


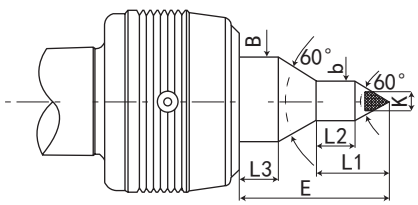
莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT1	ZX-MT1-60°	131	9	41	19	57	48	26	5	12.065	/
MT1	ZXHJ-MT1-F108-60°	131	9	41	19	57	48	26	5	12.065	8
MT2	ZX-MT2-60°	151	10	48	22	69	53	29	5	17.78	/
MT2	ZXHJ-MT2-F108-60°	151	10	48	22	69	53	29	5	17.78	8
MT3	ZX-MT3-60°	173	12	53	27	86	52	35	5	23.825	/
MT3	ZXHJ-MT3-F112-60°	173	12	53	27	86	52	35	5	23.825	12
MT4	ZX-MT4-60°	205	18	63	31	109	51	45	6	31.267	/
MT4	ZXHJ-MT4-F115-60°	205	18	63	31	109	51	45	6	31.267	15
MT5	ZX-MT5-60°	243	20	78	35	136	57	50	6	44.399	/
MT5	ZXHJ-MT5-F118-60°	243	20	78	35	136	57	50	6	44.399	18
MT6	ZX-MT6-60°	353	25	120	57	190	88	75	8	63.348	/
MT6	ZXHJ-MT6-F124-60°	353	25	120	57	190	88	75	8	63.348	24

A 中型细物回转顶尖（注油式） A MEDIUM-DUTY FOR SLIM LIVE CENTER（OILING TYPE）









莫氏锥号 Morse	规格 Type	L	L1	L2	L3	A	B	b	C	D	E	F	G	K
MT3	ZXXW-MT3-D10- 双 60°	186	21	12	12	53	27	10	86	52	47	5	23.825	/
MT3	ZXXWHJ-MT3-D12-F108- 双 60°	186	21	12	12	53	27	10	86	52	47	5	23.825	8
MT4	ZXXW-MT4-D12- 双 60°	216	24.5	14	15	63	31	12	109	51	56	6	31.267	/
MT4	ZXXWHJ-MT4-D12-F108- 双 60°	216	24.5	14	15	63	31	12	109	51	56	6	31.267	8
MT5	ZXXW-MT5-D16- 双 60°	255	30	16	16	78	35	16	136	57	62	6	44.399	/
MT5	ZXXWHJ-MT5-D16-F112- 双 60°	255	30	16	16	78	35	16	136	57	62	6	44.399	12

特点：

注：
◎该顶针采用深沟球轴承、推力球轴承组合。
◎适用于 CNC 车床中速中负荷加工。
◎心轴使用合金工具钢，热处理后硬度 HRC55° -60°具备高钢性和高耐磨度。
◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命。

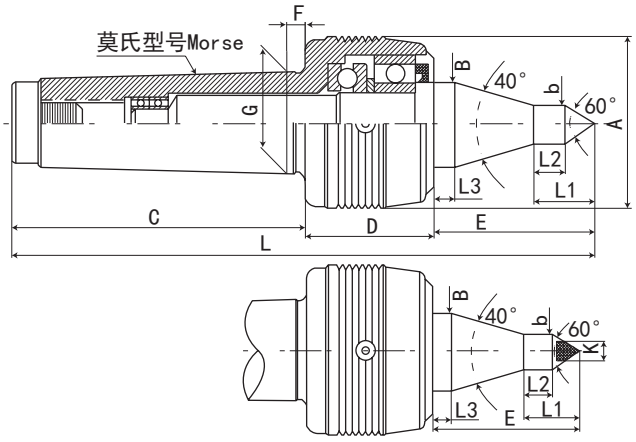
Features:

◎ The center adopts the combination of the deep groove ball bearing and the ball thrust bearing.
◎ It is applicable to the medium speed precise processing of medium-load for CNC lathes.
◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC55° -60° .It is thus has high steel.
◎ the anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

回转顶尖系列 LIVE CENTER SERIES

B 中型细物回转顶尖（注油式） B MEDIUM-DUTY FOR SLIM LIVE CENTER（OILING TYPE）

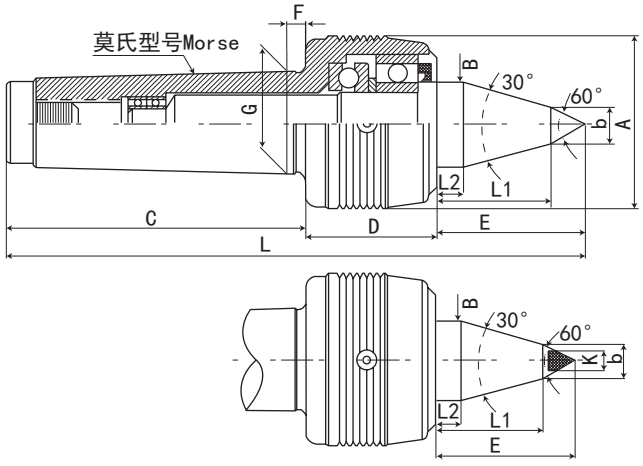




莫氏锥号 Morse	规格 Type	L	L1	L2	L3	A	B	b	C	D	E	F	G	K
MT3	ZXXW-MT3-D10-60° - 双尖	193	21	12	12	53	27	10	86	52	55	5	23.825	/
MT3	ZXXWHJ-MT3-D12-F108-60° - 双尖	193	21	12	12	53	27	10	86	52	55	5	23.825	8
MT4	ZXXW-MT4-D12-60° - 双尖	225	24.5	14	15	63	31	12	109	51	65	6	31.267	/
MT4	ZXXWHJ-MT4-D12-F108-60° - 双尖	225	24.5	14	15	63	31	12	109	51	65	6	31.267	8
MT5	ZXXW-MT5-D16-60° - 双尖	265	30	16	16	78	35	16	136	57	72	6	44.399	/
MT5	ZXXWHJ-MT5-D16-F112-60° - 双尖	265	30	16	16	78	35	16	136	57	72	6	44.399	12

C 中型细物回转顶尖（注油式） C MEDIUM-DUTY FOR SLIM LIVE CENTER（OILING TYPE）





莫氏锥号 Morse	规格 Type	L	L1	L2	A	B	b	C	D	E	F	G	K
MT3	ZXXW-MT3-60° - 双尖	189	42	12	53	27	12	86	52	51	5	23.825	/
MT3	ZXXWHJ-MT3-F108-60° - 双尖	189	42	12	53	27	12	86	52	51	5	23.825	8
MT4	ZXXW-MT4-60° - 双尖	221	51	15	63	31	12	109	51	61	6	31.267	/
MT4	ZXXWHJ-MT4-F108-60° - 双尖	221	51	15	63	31	12	109	51	61	6	31.267	8
MT5	ZXXW-MT5-60° - 双尖	258	51	16	78	35	16	136	57	65	6	44.399	/
MT5	ZXXWHJ-MT5-F112-60° - 双尖	258	51	16	78	35	16	136	57	65	6	44.399	12

特点：

注：

◎该顶针采用深沟球轴承、推力球轴承组合。

◎适用于 CNC 车床中速中负荷加工。

◎心轴使用合金工具钢，热处理后硬度 HRC55° -60°具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命。

Features:

◎ The center adopts the combination of the deep groove ball bearing and the ball thrust bearing.

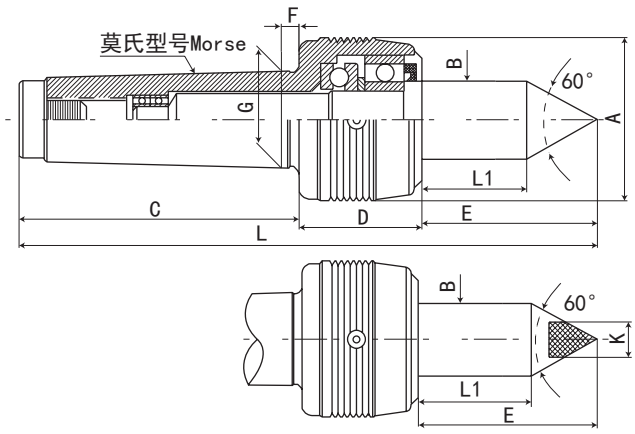
◎ It is applicable to the medium speed precise processing of medium-load for CNC lathes.

◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC55° -60° .It is thus has high steel.

◎ the anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

中型加长回转顶尖（注油式） MEDIUM-DUTY EXTENSION LIVE CENTER（OILING TYPE）

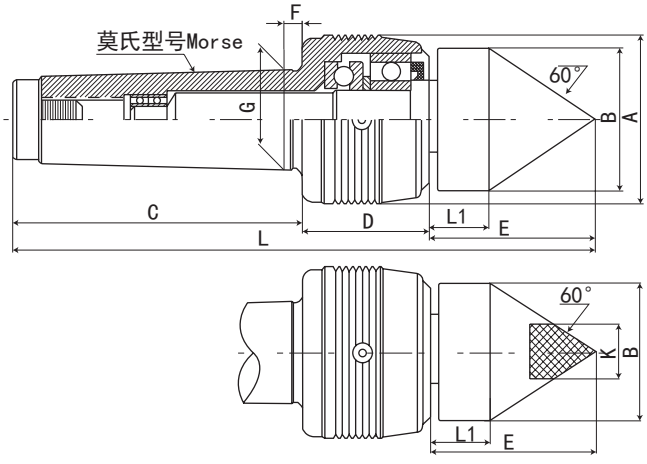




莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT3	ZXJC-MT3-60° -L70	208	47	53	27	86	52	70	5	23.825	/
MT3	ZXJCHJ-MT3-F112-60° -L70	208	47	53	27	86	52	70	5	23.825	12
MT4	ZXJC-MT4-60° -L80	240	53	63	31	109	51	80	6	31.267	/
MT4	ZXJCHJ-MT4-F115-60° -L80	240	53	63	31	109	51	80	6	31.267	15
MT5	ZXJC-MT5-60° -L100	293	70	78	35	136	57	100	6	44.399	/
MT5	ZXJCHJ-MT5-F118-60° -L100	293	70	78	35	136	57	100	6	44.399	18

中型大头回转顶尖（注油式） MEDIUM-DUTY OVERSIZED LIVE CENTER（OILING TYPE）





莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT3	ZXDT-MT3-D49-60°	203	22	53	49	86	52	65	5	23.825	/
MT3	ZXDTHJ-MT3-D49-F130-60°	203	22	53	49	86	52	65	5	23.825	30
MT4	ZXDT-MT4-D49-60°	225	22	63	49	109	51	65	6	31.267	/
MT4	ZXDTHJ-MT4-D49-F130-60°	225	22	63	49	109	51	65	6	31.267	30
MT5	ZXDT-MT5-D59-60°	266	22	78	59	136	57	73	6	44.399	/
MT5	ZXDTHJ-MT5-D59-F136-60°	266	22	78	59	136	57	73	6	44.399	36

特点：

注：

◎该顶针采用深沟球轴承、推力球轴承组合。

◎适用于 CNC 车床中速中负荷加工。

◎心轴使用合金工具钢，热处理后硬度 HRC55° -60°具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命。

Features:

◎ The center adopts the combination of the deep groove ball bearing and the ball thrust bearing.

◎ It is applicable to the medium speed precise processing of medium-load for CNC lathes.

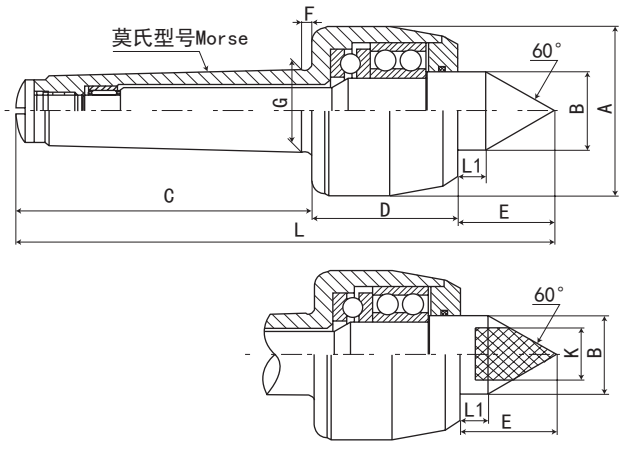
◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC55° -60° .It is thus has high steel.

◎ the anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

回转顶尖系列 LIVE CENTER SERIES

高速回转顶尖 HIGH-SPEED LIVE CENTER



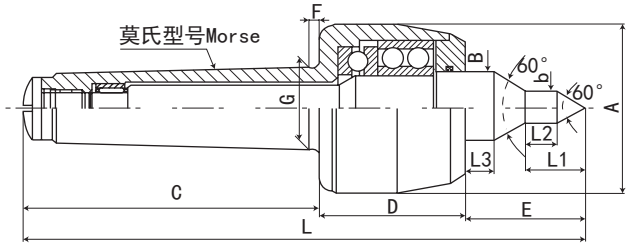


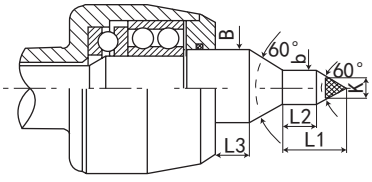
莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT3	GS-MT3-60°	170	18	68	26	86	45	39	5	23.825	/
MT3	GSHJ-MT3-F112-60°	170	18	68	26	86	45	39	5	23.825	12
MT4	GS-MT4-60°	204	18	68	31	109	50	45	6	31.267	/
MT4	GSHJ-MT4-F115-60°	204	18	68	31	109	50	45	6	31.267	15
MT5	GS-MT5-60°	251	20	78	35	136	65	50	6	44.399	/
MT5	GSHJ-MT5-F118-60°	251	20	78	35	136	65	50	6	44.399	18
MT6	GS-MT6-60°	329	14	103	50	189	81	58	10	63.348	/
MT6	GSHJ-MT6-F124-60°	329	14	103	50	189	81	58	10	63.348	24

A 高速细物回转顶尖 A HIGH-SPEED FOR SLIM LIVE CENTER









莫氏锥号 Morse	规格 Type	L	L1	L2	L3	A	B	b	C	D	E	F	G	K
MT3	GSXW-MT3-D10- 双 60°	181	21	12	15	48	26	10	86	45	50	5	23.825	/
MT3	GSXWHJ-MT3-D12-F106- 双 60°	181	21	12	15	48	26	12	86	45	50	5	23.825	6
MT4	GSXW-MT4-D12- 双 60°	215	24.5	14	15	68	31	12	109	50	56	6	31.267	/
MT4	GSXWHJ-MT4-D12-F108- 双 60°	215	24.5	14	15	68	31	12	109	50	56	6	31.267	8
MT5	GSXW-MT5-D16- 双 60°	263	30	16	16	78	35	16	136	65	62	6	44.399	/
MT5	GSXWHJ-MT5-D16-F112- 双 60°	263	30	16	16	78	35	16	136	65	62	6	44.399	12

特点：

注：

◎该顶针采用双列角接触轴承，推力球轴承和滚针轴承组合

◎适用于 CNC 车床中高速中负荷精密加工。

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

Features:

◎ The center adopts the combination of the double row angular contact ball bearings,thrust ball bearings and needle roller bearings.

◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.

◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

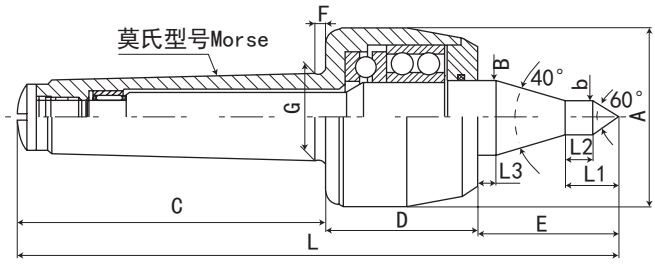
◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

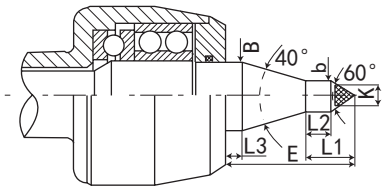
◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

B 高速细物回转顶尖 B HIGH-SPEED FOR SLIM LIVE CENTER







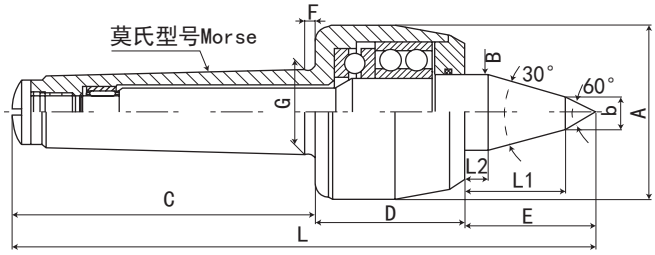


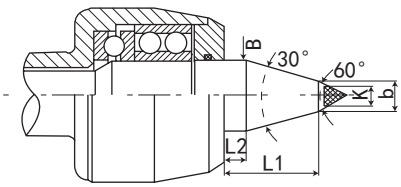
莫氏锥号 Morse	规格 Type	L	L1	L2	L3	A	B	b	C	D	E	F	G	K
MT3	GSXW-MT3-D10-60° - 双尖	186	21	12	15	48	26	10	86	45	55	5	23.825	/
MT3	GSXWHJ-MT3-D12-F106-60° - 双尖	186	21	12	15	48	26	12	86	45	55	5	23.825	6
MT4	GSXW-MT4-D12-60° - 双尖	225	24.5	14	15	68	31	12	109	50	66	6	31.267	/
MT4	GSXWHJ-MT4-D12-F108-60° - 双尖	225	24.5	14	15	68	31	12	109	50	66	6	31.267	8
MT5	GSXW-MT5-D16-60° - 双尖	273	30	16	16	78	35	16	136	65	72	6	44.399	/
MT5	GSXWHJ-MT5-D16-F112-60° - 双尖	273	30	16	16	78	35	16	136	65	72	6	44.399	12

C 高速细物回转顶尖 C HIGH-SPEED FOR SLIM LIVE CENTER









莫氏锥号 Morse	规格 Type	L	L1	L2	A	B	b	C	D	E	F	G	K
MT3	GSXW-MT3-60° - 双尖	185	46	15	48	26	10	86	45	54	5	23.825	/
MT3	GSXWHJ-MT3-F106-60° - 双尖	185	46	15	48	26	10	86	45	54	5	23.825	6
MT4	GSXW-MT4-60° - 双尖	220	51	15	68	31	12	109	50	61	6	31.267	/
MT4	GSXWHJ-MT4-F108-60° - 双尖	220	51	15	68	31	12	109	50	61	6	31.267	8
MT5	GSXW-MT5-60° - 双尖	266	51	16	78	35	16	136	65	65	6	44.399	/
MT5	GSXWHJ-MT5-F112-60° - 双尖	266	51	16	78	35	16	136	65	65	6	44.399	12

特点：

注：

◎该顶针采用双列角接触轴承，推力球轴承和滚针轴承组合

◎适用于 CNC 车床中高速中负荷精密加工。

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

Features:

◎ The center adopts the combination of the double row angular contact ball bearings,thrust ball bearings and needle roller bearings.

◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.

◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

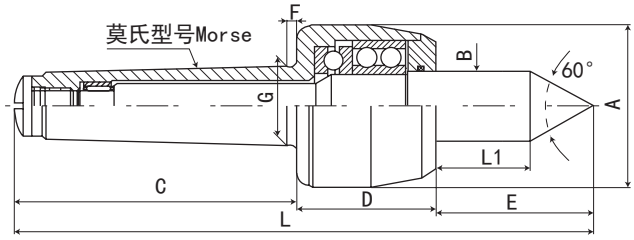
◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

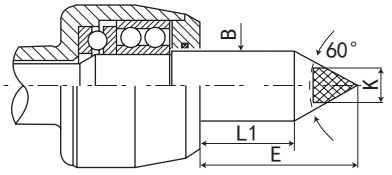
回转顶尖系列 LIVE CENTER SERIES

高速加长回转顶尖 HIGH-SPEED EXTENSION LIVE CENTER







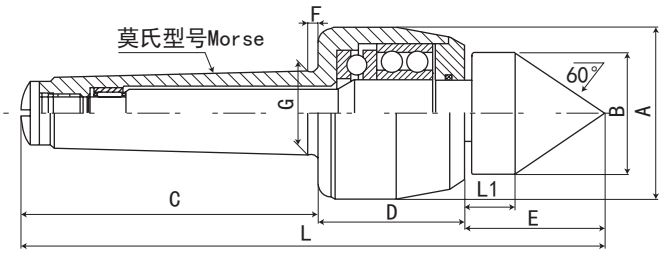


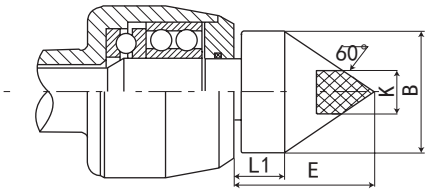
莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT3	GSJC-MT3-60° -L70	201	47	48	26	86	45	70	5	23.825	/
MT3	GSJCHJ-MT3-F112-60° -L70	201	47	48	26	86	45	70	5	23.825	12
MT4	GSJC-MT4-60° -L80	239	53	68	31	109	50	80	6	31.267	/
MT4	GSJCHJ-MT4-F115-60° -L80	239	53	68	31	109	50	80	6	31.267	15
MT5	GSJC-MT5-60° -L100	301	70	78	35	136	65	100	6	44.399	/
MT5	GSJCHJ-MT5-F118-60° -L100	301	70	78	35	136	65	100	6	44.399	18

高速大头回转顶尖 HIGH-SPEED OVERSIZED LIVE CENTER









莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT3	GSDT-MT3-D49-60°	199	26	48	49	86	45	68	5	23.825	/
MT3	GSDTHJ-MT3-D49-F130-60°	199	26	48	49	86	45	68	5	23.825	30
MT4	GSDT-MT4-D49-60°	227	26	68	49	109	50	68	6	31.267	/
MT4	GSDTHJ-MT4-D49-F130-60°	227	26	68	49	109	50	68	6	31.267	30
MT5	GSDT-MT5-D59-60°	281	29	78	59	136	65	80	6	44.399	/
MT5	GSDTHJ-MT5-D59-F136-60°	281	29	78	59	136	65	80	6	44.399	36

特点：

注：

◎该顶针采用双列角接触轴承，推力球轴承和滚针轴承组合

◎适用于 CNC 车床中高速中负荷精密加工。

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

Features:

◎ The center adopts the combination of the double row angular contact ball bearings,thrust ball bearings and needle roller bearings.

◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.

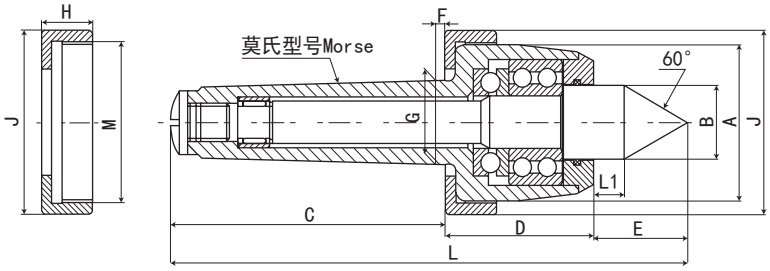
◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

A 带螺帽压出高速回转顶尖 A HIGH-SPEED LIVE CENTER WITH REMOVABLE NUT

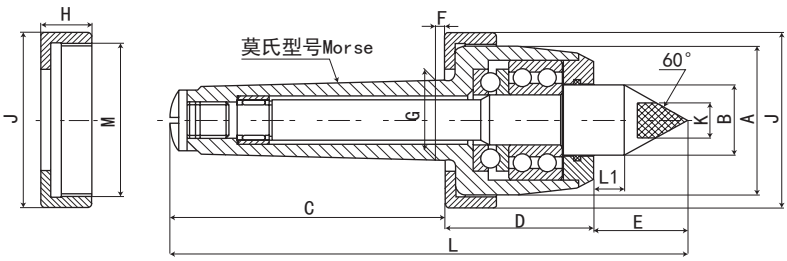




莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	C	D	E	F	G	H	M	J
MT3	LMGS-MT3-60°	170	18	48	26	86	45	39	5	23.825	15	M60*1.5P	58
MT4	LMGS-MT4-60°	204	18	68	31	109	50	45	6.5	31.267	20	M60*2.0P	78
MT5	LMGS-MT5-60°	251	20	78	35	136	65	50	6.5	44.399	20	M68*2.0P	88

B 带螺帽压出高速回转顶尖 B HIGH-SPEED LIVE CENTER WITH REMOVABLE NUT





莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	C	D	E	F	G	K	H	M	J
MT3	LMGSHJ-MT3-F112-60°	170	18	48	26	86	45	39	5	23.825	12	15	M60*1.5P	58
MT4	LMGSHJ-MT4-F115-60°	204	18	68	31	109	50	45	6.5	31.267	15	20	M60*2.0P	78
MT5	LMGSHJ-MT5-F118-60°	251	20	78	35	136	65	50	6.5	44.399	18	20	M68*2.0P	88

特点：

◎该顶针采用双列深沟球轴承，推力球轴承和滚针轴承

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度

◎主体配有拆卸螺母，能从前端压出椎体，方便任何场合的使用和拆卸

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

Features:

◎ The center adopts the combination of the double row deep groove ball bearings,thrust ball bearings and needle roller bearings.

◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

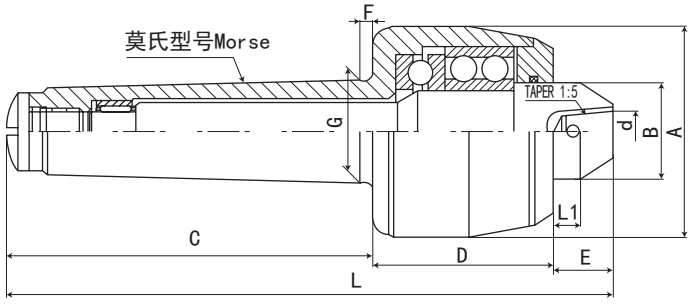
◎ the main boby is equipped with a removable nut which can be pressed out from the front so as to be easily used and disassembled in any situation.

ti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

回转顶尖系列 LIVE CENTER SERIES

高速回转顶尖（可换式） HIGH-SPEED LIVE CENTER（CAN CHANGE）



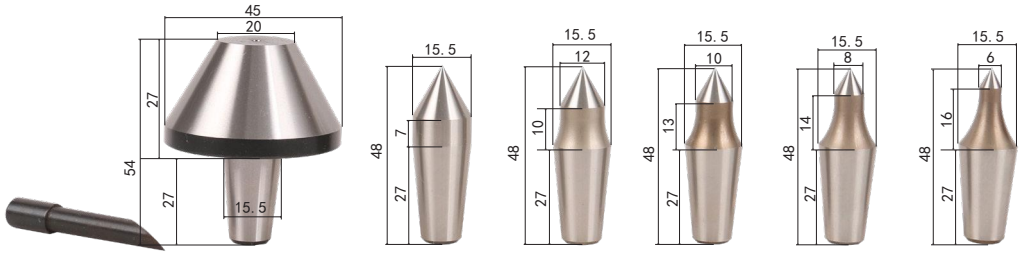


莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	d	C	D	E	F	G
MT3	GS-KHS-MT3	159	15	48	30	12.5	86	45	28	5	23.825
MT4	GS-KHS-MT4	187	15	68	32	12.5/15.5	109	50	28	6.5	31.267
MT5	GS-KHS-MT5	233	16	78	40	15.5	136	65	32	6.5	44.399

MT3/MT4



MT4/MT5



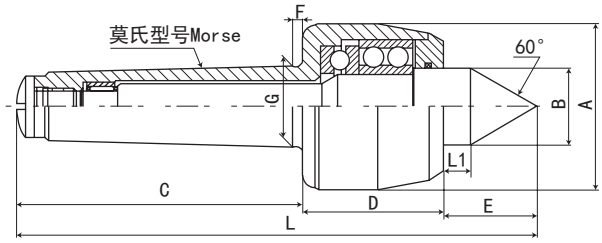


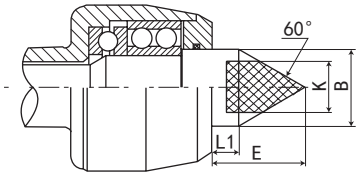


精密回转顶尖 PRECISION MEDIUM LIVE CENTER







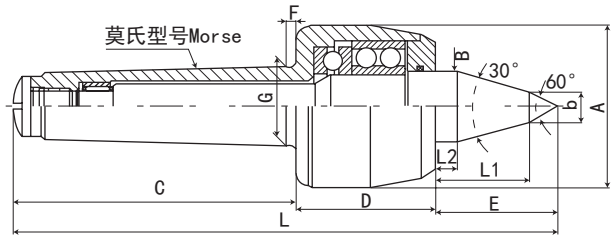


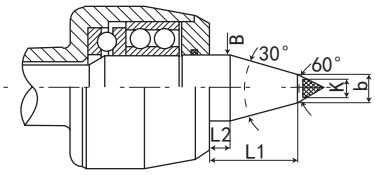
莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT3	D-MT3	158	8	58.5	25	86	42.5	29.5	5	23.825	/
MT3	DM-MT3	158	8	58.5	25	86	42.5	29.5	5	23.825	12
MT4	D-MT4	205	13	68.5	32	109	55.5	40.5	6	31.267	/
MT4	DM-MT4	205	13	68.5	32	109	55.5	40.5	6	31.267	15
MT5	D-MT5	259	15	88.5	40	136	72.5	50	6	44.399	/
MT5	DM-MT5	259	15	88.5	40	136	72.5	50	6	44.399	18
MT6	D-MT6	334	14	102.5	50	190	86.5	57.5	8	63.348	/
MT6	DM-MT6	334	14	102.5	50	190	86.5	57.5	8	63.348	24

C 精密细物回转顶尖 C PRECISION MEDIUM FOR SLIM LIVE CENTER









莫氏锥号 Morse	规格 Type	L	L1	L2	A	B	b	C	D	E	F	G	K
MT3	DVL-MT3	176	37	13	58.5	25	12	86	42.5	47.5	5	23.825	/
MT3	DVLM-MT3	176	37	13	58.5	25	12	86	42.5	47.5	5	23.825	8
MT4	DVL-MT4	218	41	8	68.5	32	14	109	55.5	53.5	6	31.267	/
MT4	DVLM-MT4	218	41	8	68.5	32	14	109	55.5	53.5	6	31.267	8
MT5	DVL-MT5	273	50	6	88.5	40	16	136	72.5	64.5	6	44.399	/
MT5	DVLM-MT5	273	50	6	88.5	40	16	136	72.5	64.5	6	44.399	12

特点：

注：

◎该顶针采用双列角接触轴承，推力球轴承和滚针轴承组合

◎适用于 CNC 车床中高速中负荷精密加工。

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

Features:

◎ The center adopts the combination of the double row angular contact ball bearings,thrust ball bearings and needle roller bearings.

◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.

◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60 ° ±2 ° .It is thus has high steel performance and high wear resistance.

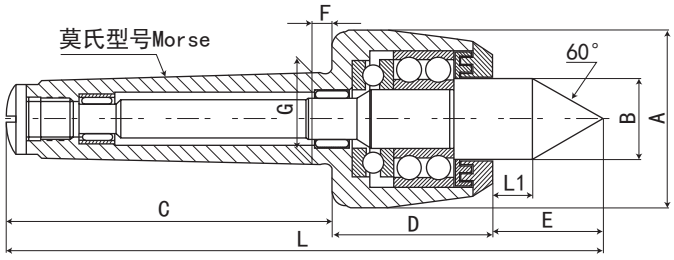
◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

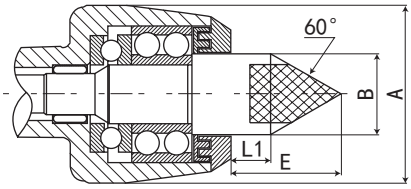
回转顶尖系列 LIVE CENTER SERIES

高精密回转顶尖 HIGH-PRECISION MEDIUM LIVE CENTER







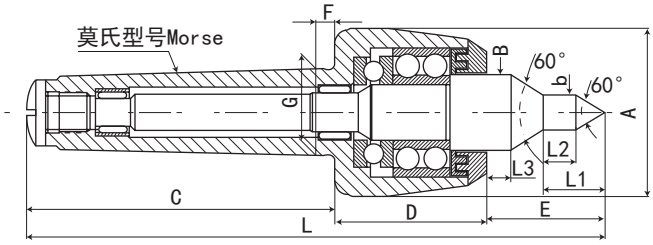


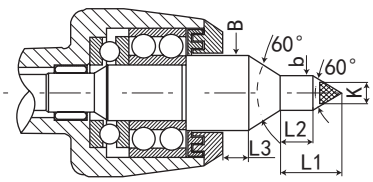
莫氏锥号 Morse	规格 Type	L	L1	A	B	C	D	E	F	G	K
MT3	GJM-MT3-60°	181	14	53	30	86	55	40	5	23.825	/
MT3	GJMHJ-MT3-F112-60°	181	14	53	30	86	55	40	5	23.825	12
MT4	GJM-MT4-60°	213	17	68	32	109	57	47	6	31.267	/
MT4	GJMHJ-MT4-F115-60°	213	17	68	32	109	57	47	6	31.267	15
MT5	GJM-MT5-60°	260	18	83	40	136	71	53	6	44.399	/
MT5	GJMHJ-MT5-F118-60°	260	18	83	40	136	71	53	6	44.399	18
MT6	GJM-MT6-60°	398	21	128	68	190	110	80	8	63.348	/
MT6	GJMHJ-MT6-F124-60°	398	21	128	68	190	110	80	8	63.348	24

A 高精密细物回转顶尖 A HIGH-PRECISION MEDIUM FOR SLIM LIVE CENTER









莫氏锥号 Morse	规格 Type	L	L1	L2	L3	A	B	b	C	D	E	F	G	K
MT3	GJMXW-MT3-D10- 双 60°	193	21	12	14	53	30	10	86	55	52	5	23.825	/
MT3	GJMXWHJ-MT3-D10-F106- 双 60°	193	21	12	14	53	30	10	86	55	52	5	23.825	6
MT4	GJMXW-MT4-D12- 双 60°	224	24.5	14	17	68	32	12	109	57	58	6	31.267	/
MT4	GJMXWHJ-MT4-D12-F108- 双 60°	224	24.5	14	17	68	32	12	109	57	58	6	31.267	8
MT5	GJMXW-MT5-D16- 双 60°	280	30	16	18	83	40	16	136	72	72	6	44.399	/
MT5	GJMXWHJ-MT5-D16-F112- 双 60°	280	30	16	18	83	40	16	136	72	72	6	44.399	12

特点：

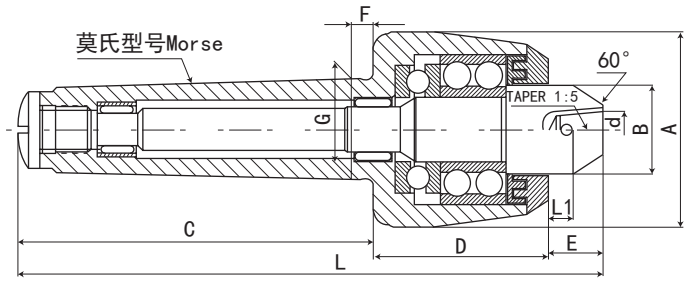
◎该顶针采用配组角接触轴承、推力球轴承和两套滚针轴承组合。
◎适用于 CNC 车床中高速中负荷精密加工，并可替代固定顶尖作磨床精加工。
◎心轴加长至顶尖锥柄最末端，最大限度提高了切削性能，减少振动影响
◎心轴使用合金钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。
◎头部有加油孔，可封内部轴承加油保养，从而延长顶尖使用寿命。
◎采用机械非接触式密封，密封效果优良

Features:

◎ The center adopts the combination of the make sets angular contact ball bearings,thrust ball bearings and two pieces needle roller bearings.
◎ It is applicable to the medium-load precise processing at high speed for the CNC lathe and can replace the fixed center in grinder finishing.
◎ The mandrel is extended to the end of the top cone,which maximally improves the cutting performance and reduces vibration.
◎ The center is made of alloy steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.
◎ Oil can be added through the oil-adding hole at the head into internal bearings so as to prolong the service life of the center.
◎ It adopts mechanical non-contact sealwhich has excellent sealing performance.

高精密回转顶尖（可换式） HIGH-PRECISION MEDIUM LIVE CENTER（CAN CHANGE）



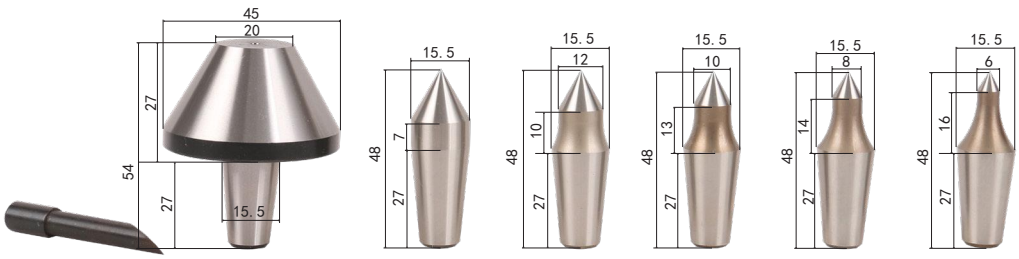


莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	d	C	D	E	F	G
MT3	GJM-KHS-MT3	169	15	53	30	12.5	86	55	28	5	23.825
MT4	GJM-KHS-MT4	199	15	68	32	12.5/15.5	109	62	28	6.5	31.267
MT5	GJM-KHS-MT5	239	16	83	40	15.5	136	71	32	6.5	44.399

MT3/MT4



MT4/MT5







特点：

注：

◎该顶针采用双列角接触轴承，推力球轴承和滚针轴承组合

◎适用于 CNC 车床中高速中负荷精密加工。

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

Features:

◎ The center adopts the combination of the double row angular contact ball bearings,thrust ball bearings and needle roller bearings.

◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.

◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

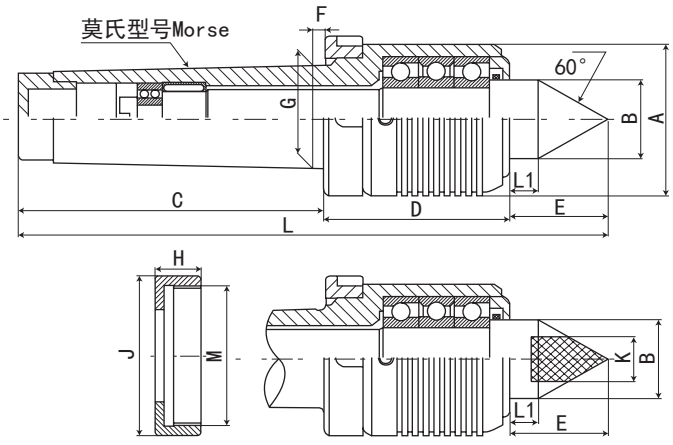
◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

回转顶尖系列 LIVE CENTER SERIES

超精密回转顶尖 UITRA PRECISION MEDIUM LIVE CENTER





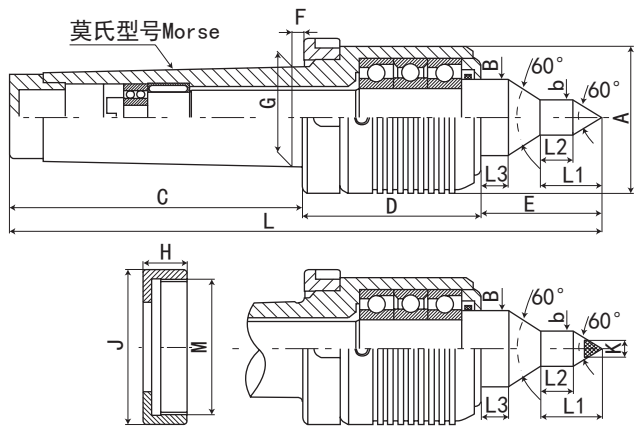


莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	C	D	E	F	G	K	H	M	J
MT3	CJM-MT3-60°	203	15	68	31.6	86	75	42	5	23.825	/	20	M60*2.0P	78
MT3	CJMHJ-MT3-F112-60°	203	15	68	31.6	86	75	42	5	23.825	12	20	M60*2.0P	78
MT4	CJM-MT4-60°	226	15	68	31.6	109	75	42	6	31.267	/	13	M60*2.0P	78
MT4	CJMHJ-MT4-F115-60°	226	15	68	31.6	109	75	42	6	31.267	15	13	M60*2.0P	78
MT5	CJM-MT5-60°	279	19	78	35	136	91	50	6	44.399	/	16	M60*1.5P	95
MT5	CJMHJ-MT5-F118-60°	279	19	78	35	136	91	50	6	44.399	18	16	M60*1.5P	95

A 超精密细物回转顶尖 A UITRA PRECISION MEDIUM FOR SLIM LIVE CENTER







莫氏型号 Morse	规格 / 型号 Model	L	L1	L2	L3	A	B	b	C	D	E	F	G	K	H	M	J
MT3	CJMXW-MT3-D10- 双 60°	211	21	12	15	68	31.6	10	86	75	50	5	23.825	/	20	M60*2.0P	78
MT3	CJMXWHJ-MT3-D10-F106- 双 60°	211	21	12	15	68	31.6	10	86	75	50	5	23.825	6	20	M60*2.0P	78
MT4	CJMXW-MT4-D12- 双 60°	240	24.5	14	15	68	31.6	12	109	75	56	6	31.267	/	20	M60*2.0P	78
MT4	CJMXWHJ-MT4-D12-F108- 双 60°	240	24.5	14	15	68	31.6	12	109	75	56	6	31.267	8	20	M60*2.0P	78
MT5	CJMXW-MT5-D16- 双 60°	273	30	16	16	68	31.6	16	136	75	62	6	44.399	/	20	M60*2.0P	78
MT5	CJMXWHJ-MT5-D16-F112- 双 60°	273	30	16	16	68	31.6	16	136	75	62	6	44.399	12	20	M60*2.0P	78

特点：

注：

◎该顶针采用双列角接触轴承，推力球轴承和两套滚针轴承组合

◎适用于 CNC 车床中高速中负荷精密加工。

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

◎主体配有拆卸螺母，能从前端压出椎体，方便任何场合的使用和拆卸

Features:

◎ The center adopts the combination of the double row angular contact ball bearings,thrust ball bearings and two pieces needle roller bearings.

◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.

◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

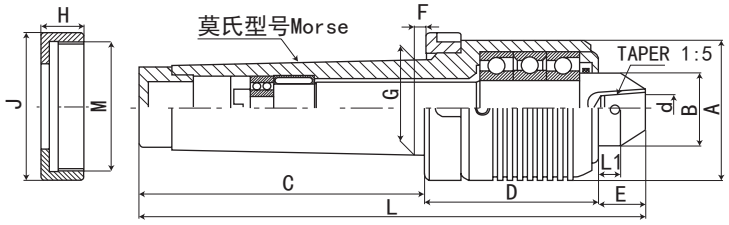
◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

◎ the main boby is equipped with a removable nut which can be pressed out from the front so as to be easily used and disassembled in any situation.

超精密回转顶尖（可换式） UITRA PRECISION MEDIUM LIVE CENTER（CAN CHANGE）



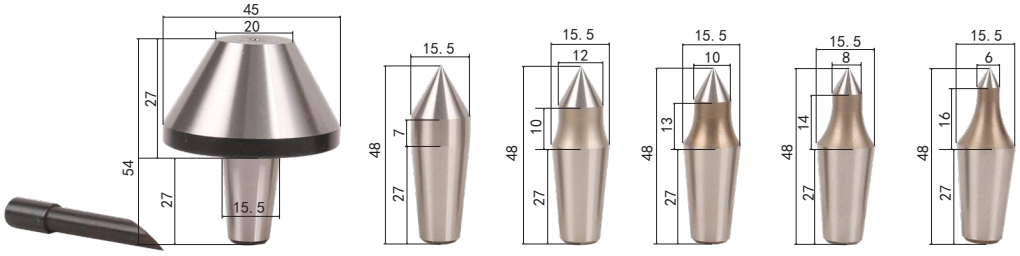


莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	d	C	D	E	F	G	H	M	J
MT3	CJM-KHS-MT3	193	15	68	31.6	12.5	86	75	32	5	23.825	20	M60*2.0P	78
MT4	CJM-KHS-MT4	216	15	68	31.6	12.5/15.5	109	75	32	6	31.267	20	M60*2.0P	78
MT5	CJM-KHS-MT5	243	15	68	31.6	15.5	136	75	32	6	44.399	20	M60*2.0P	78

MT3/MT4



MT4/MT5







特点：

注：

◎该顶针采用双列角接触轴承，推力球轴承和两套滚针轴承组合

◎适用于 CNC 车床中高速中负荷精密加工。

◎心轴加长，能有效提高切削性能，减少振动影响

◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

◎前端有防尘密封，防止切削液和灰尘进入轴承，延长了顶尖使用寿命

◎主体配有拆卸螺母，能从前端压出椎体，方便任何场合的使用和拆卸

Features:

◎ The center adopts the combination of the double row angular contact ball bearings,thrust ball bearings and two pieces needle roller bearings.

◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.

◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.

◎ The center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

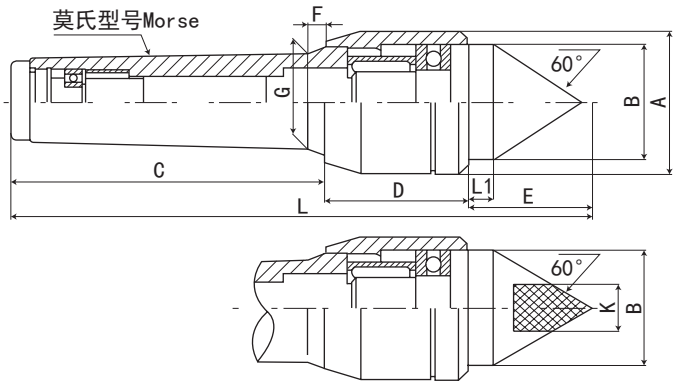
◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

◎ the main boby is equipped with a removable nut which can be pressed out from the front so as to be easily used and disassembled in any situation.

回转顶尖系列 LIVE CENTER SERIES

轻型高速回转顶尖 LIGHT HIGH-SPEED LIVE CENTER

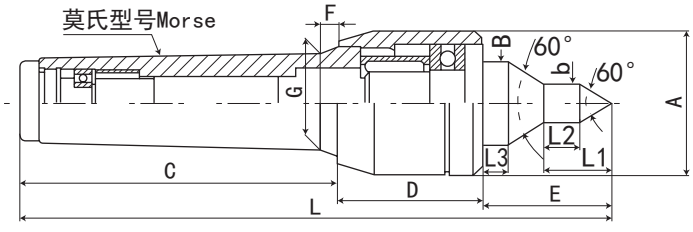


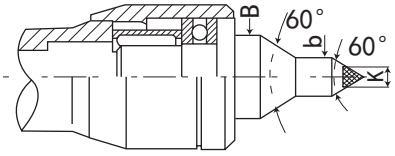


莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	C	D	E	F	G	K
MT2	QXGS-MT2-60°	132	8	32	23	69	35	28	5	17.780	/
MT2	QXGSHJ-MT2-F108-60°	132	8	32	23	69	35	28	5	17.780	8
MT3	QXGS-MT3-60°	166	7	41	35	86	44	36	5	23.825	/
MT3	QXGSHJ-MT3-F112-60°	166	7	41	35	86	44	36	5	23.825	12
MT4	QXGS-MT4-60°	201	7	47	40	109	51	41	6.5	31.267	/
MT4	QXGSHJ-MT4-F115-60°	201	7	47	40	109	51	41	6.5	31.267	15
MT5	QXGS-MT5-60°	262	9	65	52	136	72	54	6.5	44.399	/
MT5	QXGSHJ-MT5-F118-60°	262	9	65	52	136	72	54	6.5	44.399	18

A 轻型高速细物回转顶尖 A LIGHT HIGH-SPEED FOR SLIM LIVE CENTER







莫氏型号 Morse	规格 / 型号 Model	L	L1	L2	L3	A	B	b	C	D	E	F	G	K
MT3	QXGSXW-MT3-D10- 双 60°	180	21	12	15	41	27	10	86	44	50	5	23.825	/
MT3	QXGSXWHJ-MT3-D10-F106- 双 60°	180	21	12	15	41	27	10	86	44	50	5	23.825	6
MT4	QXGSXW-MT4-D12- 双 60°	216	24.5	14	15	47	31	12	109	51	56	6.5	31.267	/
MT4	QXGSXWHJ-MT4-D12-F108- 双 60°	216	24.5	14	15	47	31	12	109	51	56	6.5	31.267	8
MT5	QXGSXW-MT5-D16- 双 60°	270	30	16	16	65	35	16	136	72	62	6.5	44.399	/
MT5	QXGSXWHJ-MT5-D16-F112- 双 60°	270	30	16	16	65	35	16	136	72	62	6.5	44.399	12

特点：

◎该顶针采用滚针轴承、推力球轴承和微型深沟球轴承组合。
◎适用于 CNC 车床中高速中负荷精密加工。
◎心轴加长，能有效提高切削性能，减少振动影响
◎心轴使用合金钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。
◎前端防尘盖和心轴同时转动，并与主体组成机械密封，有效的防水防铁屑
◎采用滚针轴承，头部体积小，适氛围广，并能承受较大负荷。

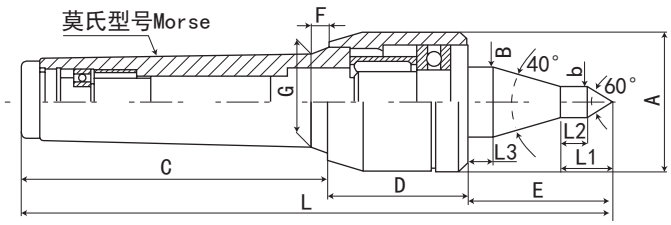
Features:

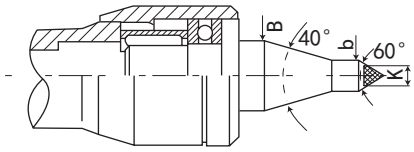
◎ The center adopts the combination of the needle roller bearings,thrust ball bearings and Miniature deep groove ball bearing.
◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.
◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.
◎ The center is made of alloy steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.
◎ The anti-dust cover at the front rotates synchronously with the mandrel and forms mechanical sealing with the main body so as to effectively resist water and iron chips.
◎ With the needle roller bearing adopted,it has small head and wide applications and can bear large load

B 轻型高速细物回转顶尖 B LIGHT HIGH-SPEED FOR SLIM LIVE CENTER







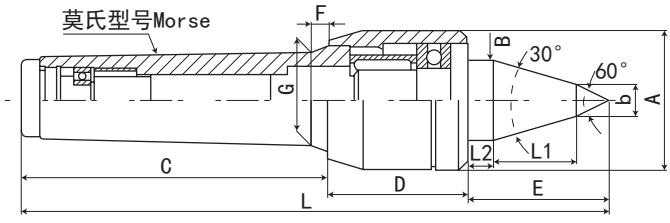


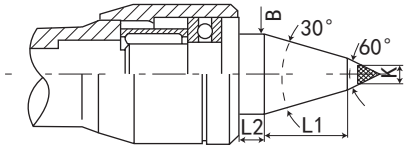
莫氏型号 Morse	规格 / 型号 Model	L	L1	L2	L3	A	B	b	C	D	E	F	G	K
MT3	QXGSXW-MT3-D10-60° - 双尖	186	21	12	15	41	27	10	86	44	56	5	23.825	/
MT3	QXGSXWHJ-MT3-D10-F106-60° - 双尖	186	21	12	15	41	27	10	86	44	56	5	23.825	6
MT4	QXGSXW-MT4-D12-60° - 双尖	225	24.5	14	15	47	31	12	109	51	65	6.5	31.267	/
MT4	QXGSXWHJ-MT4-D12-F108-60° - 双尖	225	24.5	14	15	47	31	12	109	51	65	6.5	31.267	8
MT5	QXGSXW-MT5-D16-60° - 双尖	280	30	16	16	65	35	16	136	72	72	6.5	44.399	/
MT5	QXGSXWHJ-MT5-D16-F112-60° - 双尖	280	30	16	16	65	35	16	136	72	72	6.5	44.399	12

C 轻型高速细物回转顶尖 C LIGHT HIGH-SPEED FOR SLIM LIVE CENTER









莫氏型号 Morse	规格 / 型号 Model	L	L1	L2	A	B	b	C	D	E	F	G	K
MT3	QXGSXW-MT3-60° - 双尖	184	46	15	41	27	10	86	44	54	5	23.825	/
MT3	QXGSXWHJ-MT3-F106-60° - 双尖	184	46	15	41	27	10	86	44	54	5	23.825	6
MT4	QXGSXW-MT4-60° - 双尖	221	51	15	47	31	12	109	51	61	6.5	31.267	/
MT4	QXGSXWHJ-MT4-F108-60° - 双尖	221	51	15	47	31	12	109	51	61	6.5	31.267	8
MT5	QXGSXW-MT5-60° - 双尖	273	51	16	65	35	16	136	72	65	6.5	44.399	/
MT5	QXGSXWHJ-MT5-F112-60° - 双尖	273	51	16	65	35	16	136	72	65	6.5	44.399	12

特点：

◎该顶针采用滚针轴承、推力球轴承和微型深沟球轴承组合。
◎适用于 CNC 车床中高速中负荷精密加工。
◎心轴加长，能有效提高切削性能，减少振动影响
◎心轴使用合金钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。
◎前端防尘盖和心轴同时转动，并与主体组成机械密封，有效的防水防铁屑
◎采用滚针轴承，头部体积小，适氛围广，并能承受较大负荷。

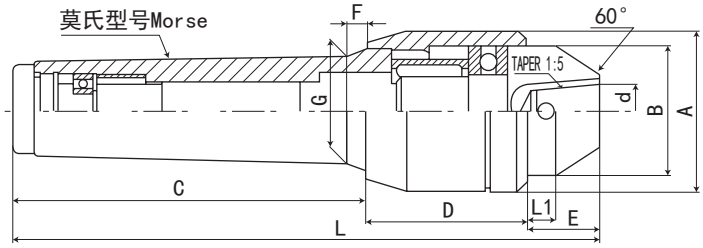
Features:

◎ The center adopts the combination of the needle roller bearings,thrust ball bearings and Miniature deep groove ball bearing.
◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.
◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.
◎ The center is made of alloy steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.
◎ The anti-dust cover at the front rotates synchronously with the mandrel and forms mechanical sealing with the main body so as to effectively resist water and iron chips.
◎ With the needle roller bearing adopted,it has small head and wide applications and can bear large load

回转顶尖系列 LIVE CENTER SERIES

轻型高速回转顶尖（可换式） LIGHT HIGH-SPEED LIVE CENTER（CAN CHANGE）





莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	d	C	D	E	F	G
MT3	QXGS-KHS-MT3	154	10	41	32	12.5	86	44	24	5	23.825
MT4	QXGS-KHS-MT4	184	10	47	32	12.5	109	51	24	6.5	31.267
MT5	QXGS-KHS-MT5	232	10	65	32	12.5	136	72	24	6.5	44.399







特点：

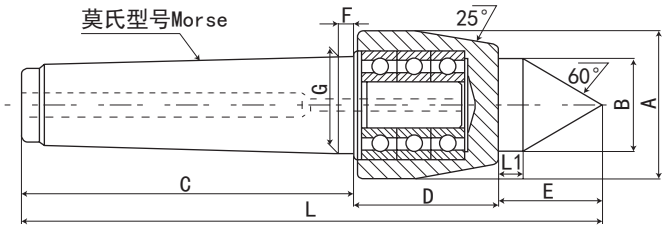
◎该顶针采用滚针轴承、推力球轴承和微型深沟球轴承组合。
◎适用于 CNC 车床中高速中负荷精密加工。
◎心轴加长，能有效提高切削性能，减少振动影响
◎心轴使用合金钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。
◎前端防尘盖和心轴同时转动，并与主体组成机械密封，有效的防水防铁屑
◎采用滚针轴承，头部体积小，适氛围广，并能承受较大负荷。

Features:

◎ The center adopts the combination of the needle roller bearings,thrust ball bearings and Miniature deep groove ball bearing.
◎ It is applicable to the medium high speed precise processing of medium-load for CNC lathes.
◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.
◎ The center is made of alloy steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.
◎ The anti-dust cover at the front rotates synchronously with the mandrel and forms mechanical sealing with the main body so as to effectively resist water and iron chips.
◎ With the needle roller bearing adopted,it has small head and wide applications and can bear large load

A 外旋回转顶尖 A ABROAD LIVE CENTER





莫氏型号 Morse	规格 / 型号 Model	L	L1	C	D	E	A	B	F	G	精度 Accuracy
MT1	WXHZDJ-MT1-D38-60° -A	115	9	57	30	28	38	22	3.5	12.065	0.005
MT2	WXHZDJ-MT2-D48-60° -A	143	10	69	38	36	48	30	5	17.780	0.005
MT3	WXHZDJ-MT3-D53-60° -A	169	10	86	44	39	53	34	5	23.825	0.005
MT4	WXHZDJ-MT4-D58-60° -A	202	12	109	46	47	58	40	6.5	31.267	0.005
MT5	WXHZDJ-MT5-D68-60° -A	245	15	136	55	54	68	45	6.5	44.399	0.005

特点：

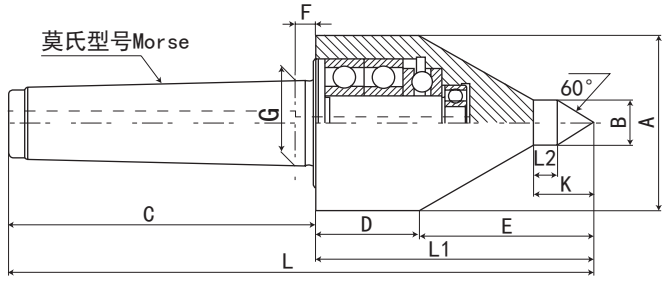
◎该顶针采用深沟球轴承组合。
◎顶尖头部较小，能适应不同的加工场合
◎适用于特殊车床中高速轻负荷精密加工。
◎头部使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

Features:

◎ The center adopts the combination of deep groove ball bearing.
◎ Its head is small and can be applied into different processing demands.
◎ It is applicable to medium high speed light load processing for special lathes.
◎ The head is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

B 外旋回转顶尖 B ABROAD LIVE CENTER





莫氏型号 Morse	规格 / 型号 Model	L	L1	L2	C	D	E	B	K	A	F	G	精度 Accuracy
MT2	WXHZDJ-MT2-D63-60° -B	184	115	14	69	47	68	20	31	63	5	17.780	0.005
MT2	WXHZDJ-MT2-D83-60° -B	211	142	15	69	55	87	30	41	83	5	17.780	0.005
MT3	WXHZDJ-MT3-D63-60° -B	201	115	14	86	47	68	20	31	63	5	23.825	0.005
MT3	WXHZDJ-MT3-D83-60° -B	228	142	15	86	55	87	30	41	83	5	23.825	0.005
MT4	WXHZDJ-MT4-D63-60° -B	224	115	14	109	47	68	20	31	63	6.5	31.267	0.005
MT4	WXHZDJ-MT4-D83-60° -B	251	142	15	109	55	87	30	41	83	6.5	31.267	0.005
MT5	WXHZDJ-MT5-D63-60° -B	251	115	14	136	47	68	20	31	63	6.5	44.399	0.005
MT5	WXHZDJ-MT5-D83-60° -B	278	142	15	136	55	87	30	41	83	6.5	44.399	0.005

特点：

◎该顶针采用双列深沟球轴承组合。
◎顶尖头部较小，能适应不同的加工场合
◎适用于特殊车床中高速轻负荷精密加工。
◎头部使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

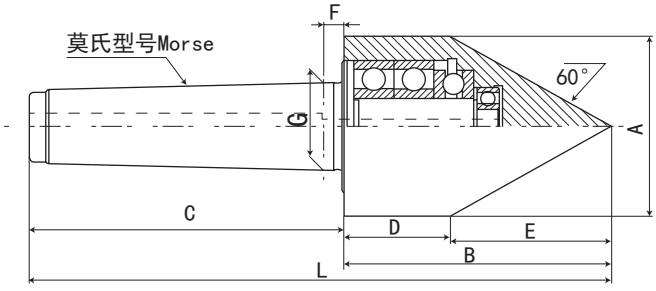
Features:

◎ The center adopts the double row combination of deep groove ball bearing.
◎ Its head is small and can be applied into different processing demands.
◎ It is applicable to medium high speed light load processing for special lathes.
◎ The head is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

回转顶尖系列 LIVE CENTER SERIES

C 外旋回转顶尖 C ABROAD LIVE CENTER





莫氏型号 Morse	规格 / 型号 Model	L	C	D	E	B	A	F	G	精度 Accuracy
MT2	WXHZDJ-MT2-D63-60° -C	171	69	47	55	102	63	5	17.780	0.005
MT2	WXHZDJ-MT2-D83-60° -C	196	69	55	72	127	83	5	17.780	0.005
MT3	WXHZDJ-MT3-D63-60° -C	188	86	47	55	102	63	5	23.825	0.005
MT3	WXHZDJ-MT3-D83-60° -C	213	86	55	72	127	83	5	23.825	0.005
MT4	WXHZDJ-MT4-D63-60° -C	211	109	47	55	102	63	6.5	31.267	0.005
MT4	WXHZDJ-MT4-D83-60° -C	236	109	55	72	127	83	6.5	31.267	0.005
MT5	WXHZDJ-MT5-D63-60° -C	238	136	47	55	102	63	6.5	44.399	0.005
MT5	WXHZDJ-MT5-D83-60° -C	263	136	55	72	127	83	6.5	44.399	0.005

特点：

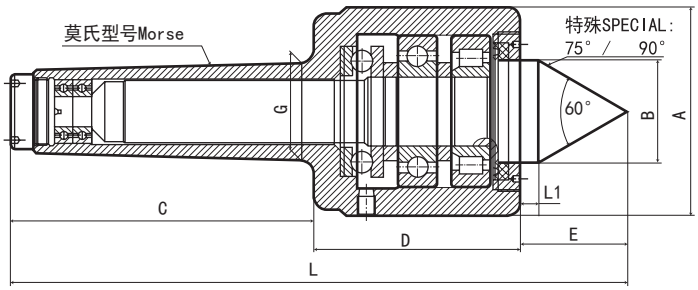
◎该顶针采用双列深沟球轴承组合。
◎顶尖头部较小，能适应不同的加工场合
◎适用于特殊车床中高速轻负荷精密加工。
◎头部使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

Features:

◎ The center adopts the double row combination of deep groove ball bearing.
◎ Its head is small and can be applied into different processing demands.
◎ It is applicable to medium high speed light load processing for special lathes.
◎ The head is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

重型回转顶尖 HEAVY-LOAD TYPE LIVE CENTER





锥柄型号 Taper shank type	规格 / 型号 Model	最大载荷 T Maximum load T	L	L1	C	D	B	A	E	G	极限转速 Limit speed	精度 Accuracy
MT4	ZX-MT4-0.5T-60°	≤ 0.5 吨	229	12	108	72	35	78	42.9	31.267	2500	0.01
MT5	ZX-MT5-1T-60°	≤ 1 吨	266.2	12	146	75	38	93.5	45.2	44.399	2000	0.01
MT5	ZX-MT5-3T-60°	≤ 3 吨	330	12	146	122	57.6	117	62	44.399	1500	0.01
MT5	ZX-MT5-5T-60°	≤ 5 吨	351	12	146	135	67.1	137	70	44.399	1300	0.01
MT6	ZX-MT6-4T-60°	≤ 4 吨	383	12	199	122	57.6	127	62	63.348	1500	0.01
MT6	ZX-MT6-6T-60°	≤ 6 吨	404	12	199	135	67.1	137	70	63.348	1400	0.01
MT6	ZX-MT6-10T-60°	≤ 10 吨	431	12	199	158	71.3	157	74	63.348	1200	0.01
MT6	ZX-MT6-15T-60°	≤ 15 吨	445	12	199	166	78	177	80	63.348	1000	0.01
公制 80	ZX- 公制 80-10T-60°	≤ 10 吨	446	12	214	158	71.3	157	74	80	1200	0.01
公制 80	ZX- 公制 80-15T-60°	≤ 15 吨	460	12	214	166	78	177	80	80	1000	0.01
公制 80	ZX- 公制 80-20T-60°	≤ 20 吨	441	12	214	144	78	197	83	80	800	0.01
公制 100	ZX- 公制 100-15T-60°	≤ 15 吨	475	12	245	140	78	177	80	100	1000	0.01
公制 100	ZX- 公制 100-20T-60°	≤ 20 吨	482	12	245	144	78	197	83	100	800	0.01

特点：

◎采用精密球轴承有效保持径向跳动、圆柱滚子轴承提高径向载荷及推力球轴承。

◎心轴加长最底部，能有效提高切削性能，减少震动影响，保持精度。

◎心轴选用 GCr15 轴承钢，热处理硬度 HRC60° ±2，具有高钢性和高耐磨度。

◎前端压盖处装有密封装置，防止切削液和灰尘进入轴承，延长顶尖使用寿命。

Features:

◎ Precision ball bearings are used to effectively maintain radial runout, cylindrical roller bearings to increase radial load and thrust ball bearings.

◎ The mandrel is lengthened at the bottom, which can effectively improve the cutting performance, reduce the impact of vibration and maintain the accuracy.

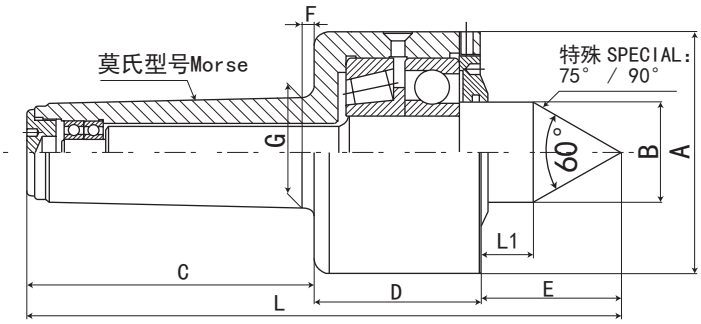
◎ The mandrel is made of GCr15 bearing steel with a heat treatment hardness of HRC60 ° ±2, providing high rigidity and high wear resistance.

◎ The front end gland is equipped with a sealing device to prevent cutting fluid and dust from entering the bearing, extending the service life of the top.

回转顶尖系列 LIVE CENTER SERIES

精密重型回转顶尖 PRECISION HEAVY LIVE CENTER





莫氏型号 Morse	规格 / 型号 Model	L	L1	A	B	C	D	E	F	G
MT3	JMZX-MT3-60°	172	15	58	27	86	48	38	5	23.825
MT3	JMZXHJ-MT3-F112-60°	172	15	58	27	86	48	38	5	23.825
MT4	JMZX-MT4-60°	201	15	68	31	109	50	42	6.5	31.267
MT4	JMZXHJ-MT4-F115-60°	201	15	68	31	109	50	42	6.5	31.267
MT5	JMZX-MT5-60°	242	16	88	35	136	60	46	6.5	44.399
MT5	JMZXHJ-MT5-F118-60°	242	16	88	35	136	60	46	6.5	44.399
MT6	JMZX-MT6-60°	365	22	138	67	190	95	80	8	63.348
MT6	JMZXHJ-MT6-F124-60°	365	22	138	67	190	95	80	8	63.348

特点:

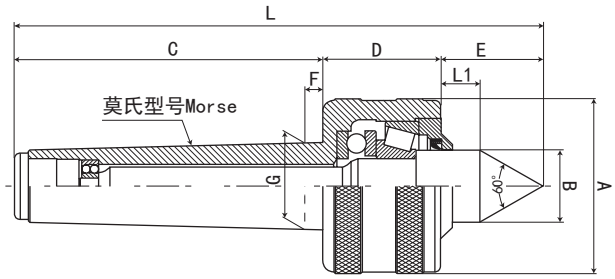
◎该顶针采用重系列精密角接触轴承、圆锥滚子轴承和滚针轴承。
◎适用于 CNC 车床中速重负荷精密加工。
◎心轴加长，能有效提高切削性能，减少振动影响
◎心轴使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。
◎头部有加油孔，可封内部轴承加油保养，从而延长顶尖使用寿命。
◎轴承间隙可根据前端挡盖调整并锁紧，以求达到最佳的使用条件。
◎前端有防尘密封，防止切割液和灰尘进入轴承，延长了顶尖使用寿命。

Features:

◎ The center adopts the heavy-load precise angular contact bearings,tapered roller bearing,and needle roller bearing.
◎ It is applicable to the medium speed precise processing of heavy load for CNC lathes.
◎ The prolonged mandrel can effectively improve the cutting performance and reduce vibration.
◎ TThe center is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.
◎ Oil can be added through the oil-adding hole at the head into internal bearings so as to prolong the service life of the center.
◎ The bearing clearance can be adjusted and locked based on the front cove to achieve the best performance.
◎ The anti-dust seal on the front can prevent the cutting fluid and dust from entering into the bearings so as to prolong its service life.

可调式回转顶尖 ADJUSTMENT TYPE LIVE CENTER





莫式型号 Morse	规格 / 型号 Model	L	L1	A	B	C	D	E	F	G
MT4	KT-MT4-60°	188.5	14	63	26	110	42	36.5	6.5	31.267
MT5	KT-MT5-60°	239.3	17	79.5	35	139	53	47.3	6.5	44.399

特点：

◎心轴使用合金工具钢之材质，经真空热处理（HRC60° ±1）具有高刚性及耐磨性，
◎此顶针使用滚锥轴承，止推轴承及滚针轴承纸组合。
◎适用于中、重负荷使用，具有防水性。
◎防水设计。

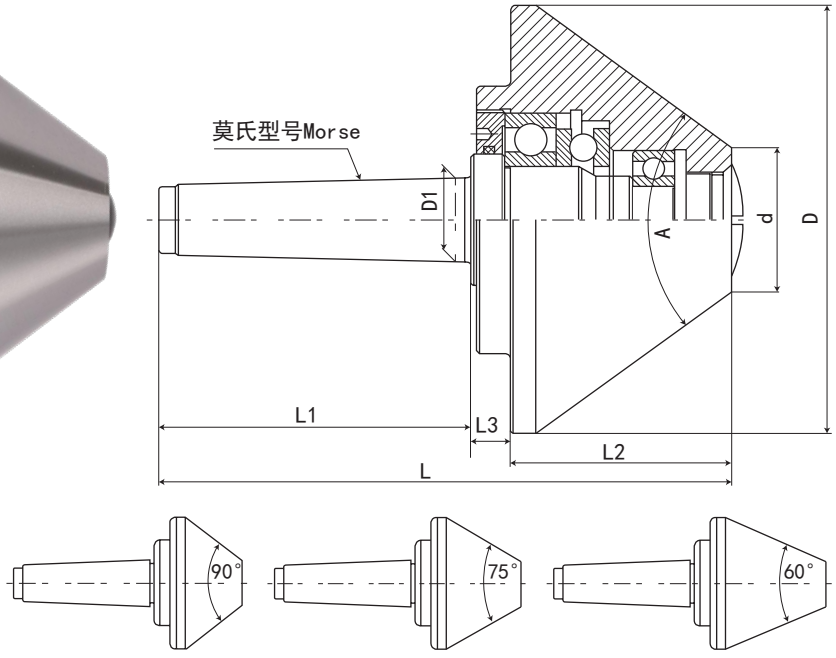
Features:

◎ The shaft uses alloy steel and hardened through vacuum heat treatment to (HRC60° ±1°).
◎ The center uses the combination of taper roller bearing,thrust bearing and meedle bearing.
◎ Applicable to medium and heavy loads.
◎ The center is adjustable to reach original loading capacity after using for a long period of time.
Long mose live centers are suitable for smallworkpieces.
Waterproof design.

回转顶尖系列 LIVE CENTER SERIES

伞型回转顶尖 BULL NOSE CENTER TYPE LIVE CENTER





规格 / 型号 Model	规格 Type	D	D1	d	L	L1	L2	L3	精度	角度 θ
MT2-D63-d20-60°	Φ63	63	17.78	20	146	68	68	10	0.01	60°
MT2-D83-d25-60°	Φ83	83	17.78	25	141	68	61	12	0.01	60°
MT2-D103-d25-60°	Φ103	103	17.78	25	146	68	61	12	0.01	60°
MT2-D103-d30-75°	Φ103	103	17.78	30	141	68	57	16	0.01	75°
MT3-D63-d20-60°	Φ63	63	23.825	20	163	85	68	10	0.01	60°
MT3-D83-d25-60°	Φ83	83	23.825	25	158	85	61	12	0.01	60°
MT3-D103-d25-60°	Φ103	103	23.825	25	158	85	57	16	0.01	60°
MT3-D103-d30-75°	Φ103	103	23.825	30	164	85	63	16	0.01	75°
MT3-D118-d40-75°	Φ118	118	23.825	40	164	85	63	16	0.01	75°
规格 / 型号 Model	规格 Type	D	D1	d	L	L1	L2	L3	精度	角度 θ
MT4-D63-d20-60°	Φ63	63	31.267	20	186	108	68	10	0.01	60°
MT4-D83-d25-60°	Φ83	83	31.267	25	181	108	61	12	0.01	60°
MT4-D103-d25-60°	Φ103	103	31.267	25	187	108	57	16	0.01	60°
MT4-D103-d30-75°	Φ103	103	31.267	30	181	108	57	16	0.01	75°
MT4-D118-d40-75°	Φ118	118	31.267	40	187	108	63	16	0.01	75°
MT4-D128-d44-75°	Φ128	128	31.267	44	191	108	67	16	0.01	75°
MT4-D148-d35-75°	Φ148	148	31.267	35	198	108	80	10	0.01	75°
MT4-D158-d45-75°	Φ158	158	31.267	45	196	108	78	10	0.01	75°
MT4-D178-d45-75°	Φ178	178	31.267	45	210	108	92	10	0.01	75°
MT4-D198-d65-75°	Φ198	198	31.267	65	220	108	102	10	0.01	75°
MT4-D248-d105-75°	Φ248	248	31.267	105	225	108	107	10	0.01	75°

特点：

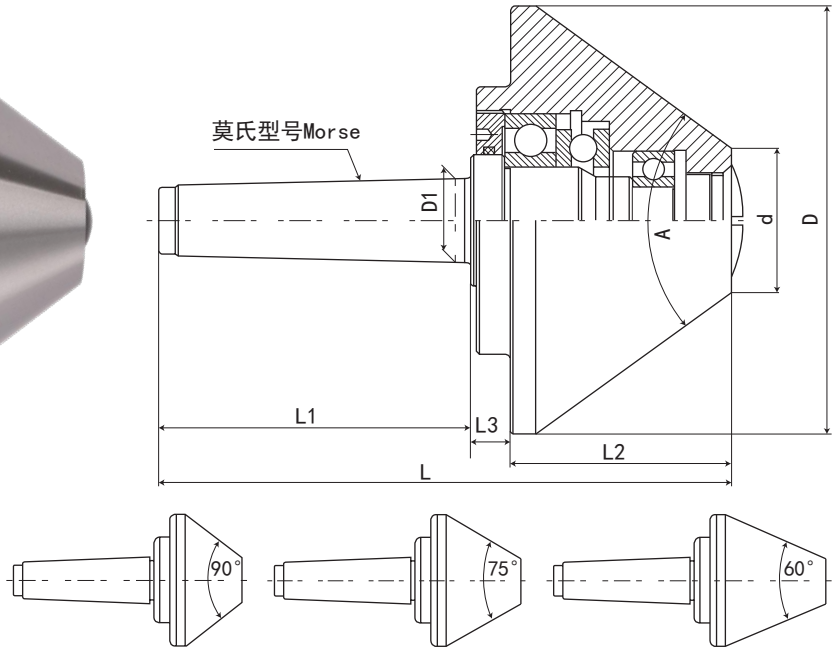
◎该顶针采用深沟球轴承和推力球轴承组合。
◎适用于 CNC 车床中速中负荷精密加工。
◎头部特殊伞型结构，适合加工中心孔类，管件类工件
◎头部使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。
◎此顶尖仅适用车床加工，如需在外圆磨床上用需定制高精度伞型回转顶尖。

Features:

◎ The center adopts the combination of the deep groove ball bearing and the ball thrust bearing.
◎ It is applicable to the medium speed precise processing of medium- load for CNC lathes.
◎ The special umbrella-shaped structure at the head is applicable to process word pieces with central holes and pipes.
◎ The head is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.
◎ This center is ouly suitable for the lathe processing, if use for cylindrical grinder, please have the high-precision bull-nose live center made to order.

伞型回转顶尖 BULL NOSE CENTER TYPE LIVE CENTER





规格 / 型号 Model	规格 Type	D	D1	d	L	L1	L2	L3	精度	角度 θ
MT5-D63-d20-60°	Φ63	63	44.399	20	214	136	68	10	0.01	60°
MT5-D83-d25-60°	Φ83	83	44.399	25	209	136	61	12	0.01	60°
MT5-D103-d25-60°	Φ103	103	44.399	25	209	136	57	16	0.01	60°
MT5-D103-d30-75°	Φ103	103	44.399	30	209	136	57	16	0.01	75°
MT5-D118-d40-75°	Φ118	118	44.399	40	215	136	63	16	0.01	75°
MT5-D128-d44-75°	Φ128	128	44.399	44	219	136	67	16	0.01	75°
MT5-D148-d35-75°	Φ148	148	44.399	35	226	136	80	10	0.01	75°
MT5-D158-d45-75°	Φ158	158	44.399	45	224	136	78	10	0.01	75°
MT5-D178-d45-75°	Φ178	178	44.399	45	238	136	92	10	0.01	75°
MT5-D198-d65-75°	Φ198	198	44.399	65	248	136	102	10	0.01	75°
MT5-D248-d105-75°	Φ248	248	44.399	105	253	136	107	10	0.01	75°
MT5-D300- d140-75°	Φ300	300	44.399	140	266	136	120	10	0.01	75°
MT5-D320-d155-75°	Φ320	320	44.399	155	271	136	125	10	0.01	75°
MT5-D350-d170-75°	Φ350	350	44.399	170	281	136	135	10	0.01	75°
MT5-D410-d200-75°	Φ410	410	44.399	200	311	136	160	15	0.01	75°
规格 / 型号 Model	规格 Type	D	D1	d	L	L1	L2	L3	精度	角度 θ
MT6-D118-d40-75°	Φ118	118	63.348	40	268	189	63	16	0.01	75°
MT6-D128-d44-75°	Φ128	128	63.348	44	272	189	67	16	0.01	75°
MT6-D148-d35-75°	Φ148	148	63.348	35	279	189	80	10	0.01	75°
MT6-D158-d45-75°	Φ158	158	63.348	45	277	189	78	10	0.01	75°
MT6-D178-d45-75°	Φ178	178	63.348	45	291	189	92	10	0.01	75°
MT6-D198-d65-75°	Φ198	198	63.348	65	301	189	102	10	0.01	75°
MT6-D248-d105-75°	Φ248	248	63.348	105	306	189	107	10	0.01	75°
MT6-D300- d140-75°	Φ300	300	63.348	140	319	189	120	10	0.01	75°
MT6-D320-d155-75°	Φ320	320	63.348	155	324	189	125	10	0.01	75°
MT6-D350-d170-75°	Φ350	350	63.348	170	334	189	135	10	0.01	75°
MT6-D410-d200-75°	Φ410	410	63.348	200	365	189	160	15	0.01	75°

特点：

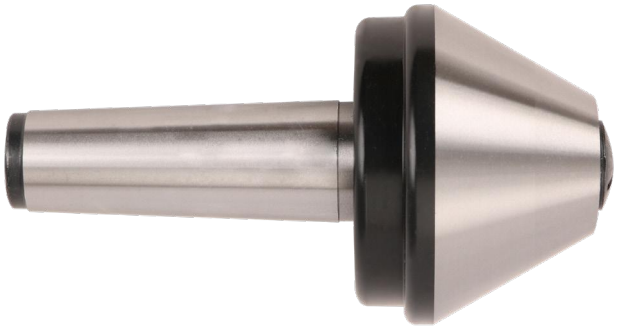
◎该顶针采用深沟球轴承和推力球轴承组合。
◎适用于 CNC 车床中速中负荷精密加工。
◎头部特殊伞型结构，适合加工中心孔类，管件类工件
◎头部使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。
◎此顶尖仅适用车床加工，如需在外圆磨床上用需定制高精度伞型回转顶尖。

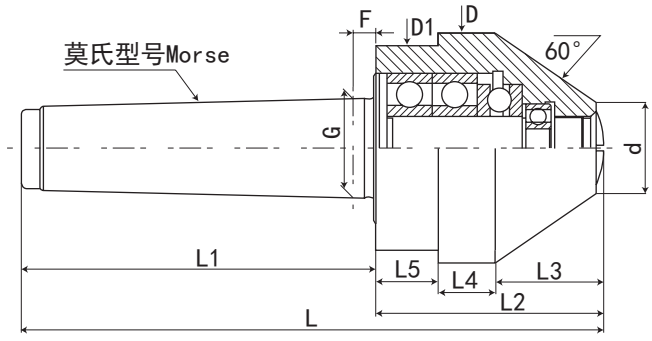
Features:

◎ The center adopts the combination of the deep groove ball bearing and the ball thrust bearing.
◎ It is applicable to the medium speed precise processing of medium- load for CNC lathes.
◎ The special umbrella-shaped structure at the head is applicable to process word pieces with central holes and pipes.
◎ The head is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.
◎ This center is ouly suitable for the lathe processing, if use for cylindrical grinder, please have the high-precision bull-nose live center made to order.

回转顶尖系列 LIVE CENTER SERIES

磨床用高精度伞型回转顶尖 GRINDING MACHINE HIGH-PRECISION BULL NOSE CENTER TYPE LIVE CENTER





莫氏型号 Morse	规格 / 型号 Model	G	L	L1	L2	L3	L4	L5	D	D1	a	d	精度 Accuracy
MT3	GJDSXDJ-MT3-D63-d25-60°	23.825	167.5	90.5	77	33	-	-	63	-	5	25	0.003
MT3	GJDSXDJ-MT3-D83-d40-60°	23.825	165.6	90.6	75	37	19.5	18.5	83	70	5	40	0.003
MT3	GJDSXDJ-MT3-D103-d60-60°	23.825	165.6	90.6	75	37	9.5	28.5	103	70	5	60	0.003
MT4	GJDSXDJ-MT4-D63-d25-60°	31.267	190.5	113.5	77	33	-	-	63	-	6.5	25	0.003
MT4	GJDSXDJ-MT4-D83-d40-60°	31.267	188.6	113.6	75	37	19.5	18.5	83	70	6.5	40	0.003
MT4	GJDSXDJ-MT4-D103-d60-60°	31.267	188.6	113.6	75	37	9.5	28.5	103	70	6.5	60	0.003
MT4	GJDSXDJ-MT4-D118-d70-60°	31.267	222.4	114.4	108	42	15	51	118	100	6.5	70	0.003
MT4	GJDSXDJ-MT4-D128-d80-60°	31.267	222.4	114.4	108	42	15	51	128	105	6.5	80	0.003
MT5	GJDSXDJ-MT5-D63-d25-60°	44.399	217.5	140.5	77	33	-	-	63	-	6.5	25	0.003
MT5	GJDSXDJ-MT5-D83-d40-60°	44.399	215.6	140.6	75	37	19.5	18.5	83	70	6.5	40	0.003
MT5	GJDSXDJ-MT5-D103-d60-60°	44.399	215.6	140.6	75	37	9.5	28.5	103	70	6.5	60	0.003
MT5	GJDSXDJ-MT5-D118-d70-60°	44.399	249.4	141.4	108	42	15	51	118	100	6.5	70	0.003
MT5	GJDSXDJ-MT5-D128-d80-60°	44.399	249.4	141.4	108	42	15	51	128	105	6.5	80	0.003

特点：

◎该顶针采用进口 NSK 双列角接触球轴承和推力球轴承组合。
◎适用于外圆磨床中速中负荷高精密加工。
◎头部特殊伞型结构，适合加工中心孔类，管件类工件
◎头部使用合金工具钢，热处理后硬度 HRC60° ±2°，具备高钢性和高耐磨度。

Features:

◎
◎
◎ The special umbrella-shaped structure at the head is applicable to process word pieces with central holes and pipes.
◎ The head is made of alloy tool steel and its hardness after being heat treated could reach HRC60° ±2° .It is thus has high steel performance and high wear resistance.

液压端面拨动顶尖 CONSTANT HYDROSTARTER FACE DRIVER

产品信息：

◎端面拨动顶尖主要用于仿型车床，数控车床和普通车床上加工轴类零件，在一次装夹情况下，可以方便的车销零件外圆所有各部尺寸，由于使用工件中心定位从而保证了产品质量，端面拨盘由三个浮动液压缸推动，当工件端面与工件轴线不垂直在 5°以内时，均能保证正常工作

◎端面拨盘顶尖可换顶尖和拨盘一般和拨动顶尖整体配套供应单独订货时请注明规格（D)。也可根据用户需要制作相应规格（D）的可换顶尖和拨盘。

Product information：

◎ Constant hydrostarter face driver is mainly used on the forming lathe,CNC lathe and common lathe to process axis type wordpiece.Put in only one collect,you can get all the dimensions of the workpiece's exterior.Using the workpiece's centre hole to locate,we can guarantee the quality.Driving.plate propelled by three floating hydraulic cylinder to stab to the end of workpiece and made the workpiece rotate.When the end face and the axis is not perpendicular within 5 degree,constant face driver can work regularly.

◎ Constant face driveris used to be provided with driving center's body together with Changing centre and driver,lease mention specification on the individual order. Also we can manufacture changingable centre and driver plate.

产品示意图 Product schematic diagram



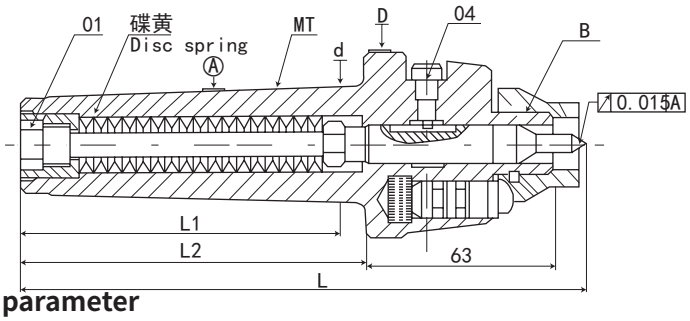


驱动顶尖标准套装包含：MT3/MT4/MT5/MT6 主体一支、
中心顶尖：φ4mm/φ6mm/φ10mm/φ12mm
φ16mm 共五支
整体铣齿拨盘：φ10mm/φ12mm/φ16mm/φ20/mm
φ25mm/φ32mm 共六支
镶合金条拨盘：φ40mm/φ50mm 共两支
拆卸板一支、内六角扳手两支
O 型圈一套
包装木盒一个 共计 19 件

也可以根据客户要求单独购买其中配件
镶合金条拨盘：φ16mm/φ20mm/φ25mm/φ32mm
φ40mm/φ50mm/φ60mm/φ80mm
φ100mm/φ120mm

回转顶尖系列 LIVE CENTER SERIES

液压端面拨动顶尖 CONSTANT HYDROSTARTER FACE DRIVER

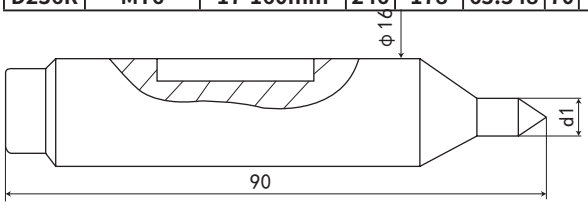


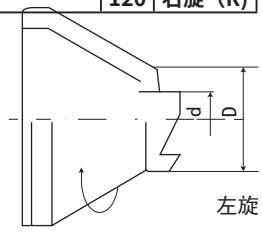
端面拨动顶尖主要参数 Main parameter

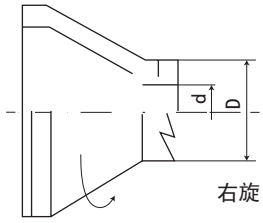
型号 Model	MT (莫氏锥度)	切削范围 Cutting range	L	L1	d	D	中心顶尖 Center top	拨盘 Dial	载重 (kg)	备注 Remarks
D233	MT3	11-80mm	152	82	23.825	70	4 6 10 12 16	10 12 16 20 25 32 40 50	40	左旋 (L)
D233R	MT3	11-80mm	152	82	23.825	70			40	右旋 (R)
D234	MT4	11-80mm	166	97.7	31.267	70			60	左旋 (L)
D234R	MT4	11-80mm	166	97.7	31.267	70			60	右旋 (R)
D235	MT5	11-80mm	193	123.7	44.399	70			80	左旋 (L)
D235R	MT5	11-80mm	193	123.7	44.399	70			80	右旋 (R)
D236	MT6	17-160mm	246	178	63.348	70			120	左旋 (L)
D236R	MT6	17-160mm	246	178	63.348	70			120	右旋 (R)

允许工件最大重：莫氏 3 号 40kg
莫氏 4 号 60kg
莫氏 5 号 80kg

Max weight:MT3 40kg
MT4 60kg
MT5 80kg







配套可换端面拨盘 Face driver

图示	拨盘型号	旋转方向 (R/L)	拨盘外径 D	拨盘内径 d	图示	中心顶尖型号	中心顶尖直径 d1	切削范围	拨盘厚度 C
	40322	左旋 (L)	10	4.5		4	4mm	11-16mm	38
	40362	右旋 (R)							
	40323	左旋 (L)	12	7		6	6mm	13-20mm	36
	40363	右旋 (R)							
	40324	左旋 (L)	16	11		10	10mm	17-27mm	33
	40364	右旋 (R)							
	40325	左旋 (L)	20	13		12	12mm	21-33mm	30
	40365	右旋 (R)							
	40326	左旋 (L)	25	17		16	16mm	26-41mm	30
	40366	右旋 (R)							
	40327	左旋 (L)	32	22		16	16mm	33-52mm	30
	40367	右旋 (R)							
	40328	左旋 (L)	40	20		16	16mm	41-64mm	24
	40368	右旋 (R)							
	40329	左旋 (L)	50	28		16	16mm	51-80mm	24
	40369	右旋 (R)							
	40330	左旋 (L)	60	20		16	16mm	61-100mm	24
	40370	右旋 (R)							
	40331	左旋 (L)	80	20		16	16mm	81-120mm	24
	40371	右旋 (R)							
	40332	左旋 (L)	100	20		16	16mm	101-140mm	24
	40372	右旋 (R)							
	40333	左旋 (L)	120	20		16	16mm	121-160mm	24
	40373	右旋 (R)							
	40334	左旋 (L)	16H	11		10	10mm	17-27mm	33
	40374	右旋 (R)							
	40335	左旋 (L)	20H	13		12	12mm	21-33mm	30
	40375	右旋 (R)							
	40336	左旋 (L)	25H	17		16	16mm	26-41mm	30
	40376	右旋 (R)							
	40337	左旋 (L)	32H	22		16	16mm	33-52mm	30
	40377	右旋 (R)							

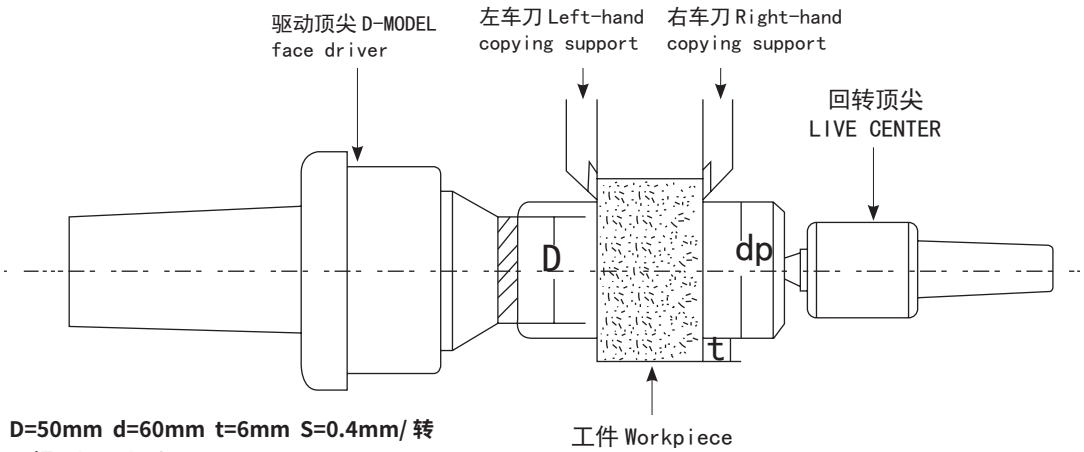
液压端面拨动顶尖 CONSTANT HYDROSTARTER FACE DRIVER

使用方法：

◎根据工件直径选择合适的活动顶尖和拨盘
◎更换活动顶尖时，松开紧定螺钉 4，装入适当的活顶尖，使螺顶 4 的导向部分位于活动顶尖导向槽内，拧紧螺钉，活动顶尖能轴向滑动，但不能转动
◎更换端面拨盘，用力将拨盘推进主体 B 处，使拨盘端面的键槽和活塞的扁部结合，卸下拨盘时用撬出板撬出
◎调整活塞 1，可以调整活动顶尖长度。活动顶尖尖部与拨盘齿尖相距 3-4mm 为宜
◎工作中心孔一端装在活动顶尖上，另一端用机床尾架顶尖支撑，尾架顶尖应顶紧尾架，顶紧力可以按以下式计算（见图二）
P=2.5tsobi
p 尾架顶紧力（KG）
t 切削深度 (mm)
s 走刀量 (mm/ 转)
ob 工件材料抗拉强度 (kg/mm2)
i 夹持比 (d/D)

Mounting instructions:

◎ Choose proper center and driving plate according to the workpiece's diameter.
◎ When changing the centre,loosen the bolt,then put in proper center,make sure The guide part of the bolt lies in the leading groove ,fix up the bolt,the center can move along the axis,but cannot rotate.
◎ Changing the driver plate,pull the driver plate into the body part(B)，make sure the driver plate's groove integrate into the thin part of the piston,lever the driver plate out.
◎ You use t he piston 1 to adjust the length of the centre.The most fitable space between the center and the gear of the driver plate is 3-7mm.
◎ Fix one side of the center hole on the active center,and the other side be struted by the apex of the lathe,the power of the strut can be caculated as follows:p=2.5tsobi
P-the power of the strut
t-depth of the cutting(mm)
s-rotating speed revolution(mm/round)
ob-pulling intensity of the material
i-d/D(d,D can be found in picture 2)



计算实例：D=50mm d=60mm t=6mm S=0.4mm/ 转
45# 钢 ob=61kg/mm2
p=2.5×6×0.4×60/50×61=439.2kg

维护：

◎应经常加入 20# 机油，润滑活动顶尖
◎液压油不足时，可松开 2 处密封螺钉，加入适量双曲线齿轮油，使活塞端面与主体端面等高，拧紧密封螺钉。当密封组合垫圈损坏时，应更换。上述密封在出厂时已调好，一般不要拆卸。
◎推荐下列切削规范
最大切削深度 t=5mm
最大走刀量 s=0.4mm/ 转

Maintenance:

◎ Hold over enough 20# engine oil,lubricate active center tighten
◎ When hydraulic pressure is short,you can loose the 2 screw-cap of seal,then add appropriate hyperbolic gear oil, make the appearance of piston at the same high end with main body,tighen sealing body bolts.when the washer of seal comition has been damaged,should be replacing instantly,the above seal has mixed up already before at the factory.Don't take down normally.
◎ Recommend cutting range as below:Maxium cutting range:t=5mm.Maxium cutting speed:s=0.4mm/turn

易损件：

◎ O 型密封圈 ϕ16*2.4
◎组合垫圈：B 型 6

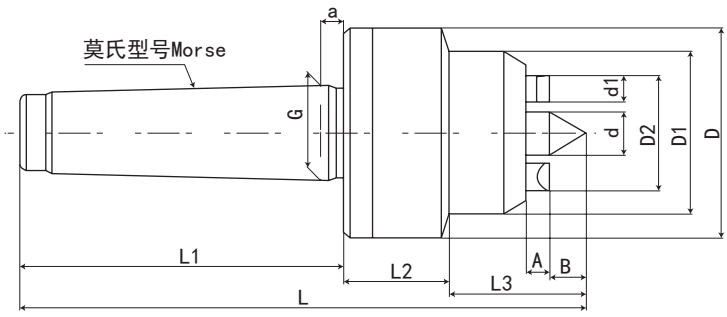
Easily damaged parts:

◎ O type seal loop:ϕ16*2.4
◎ Combination washer:type B6

回转顶尖系列 LIVE CENTER SERIES

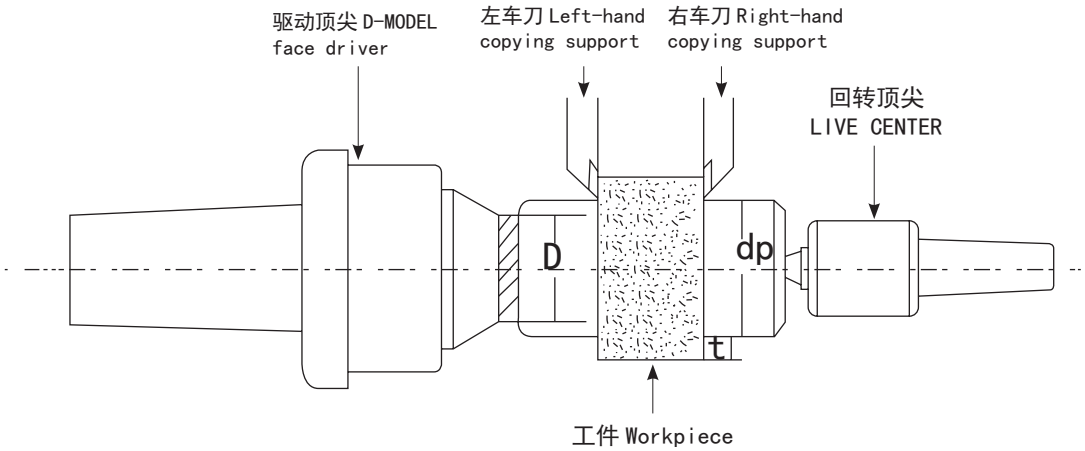
机械式驱动顶尖 MECHANICAL DRIVE CENTER



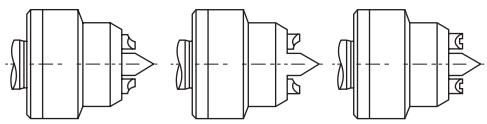


型号 Model	莫氏型号 MT	D	D1	L1	L2	L3	a	A	B	L	D2	d	d1	驱动销 driving pins	工作范围 Work size	工件重量 Weight
JXQD-MT3-D34-d19	MT3	42	30	89	24.5	29.5	6	5	4.3	143	17	5	5	4	ϕ19-ϕ34	50
JXQD-MT4-D34-d19	MT4	42	30	108	24.5	29.5	8	5	4.3	163	17	5	5	4	ϕ19-ϕ34	50
JXQD-MT5-D34-d19	MT5	42	30	136	24.5	29.5	8	5	4.3	191	17	5	5	4	ϕ19-ϕ34	50
JXQD-MT3-D50-d28	MT3	52	40	89	26.5	35.8	6	6.5	7.8	150.3	26	9	7	5	ϕ28-ϕ50	55
JXQD-MT4-D50-d28	MT4	52	40	108	26.5	35.8	8	6.5	7.8	170.3	26	9	7	5	ϕ28-ϕ50	55
JXQD-MT5-D50-d28	MT5	52	40	136	26.5	35.8	8	6.5	7.8	198.3	26	9	7	5	ϕ28-ϕ50	55
JXQD-MT3-D72-d40	MT3	70	54	89	36	45	6	9	11	170	38	14	9	6	ϕ40-ϕ72	65
JXQD-MT4-D72-d40	MT4	70	54	108	36	45	8	9	11	189	38	14	9	6	ϕ40-ϕ72	65
JXQD-MT5-D72-d40	MT5	70	54	136	36	45	8	9	11	217	38	14	9	6	ϕ40-ϕ72	65
JXQD-MT4-D100-d55	MT4	82	72	108	40	56.1	8	11	14.1	204.1	54	20	14	6	ϕ55-ϕ100	100
JXQD-MT5-D100-d55	MT5	82	72	136	40	56.1	8	11	14.1	232.1	54	20	14	6	ϕ55-ϕ100	100

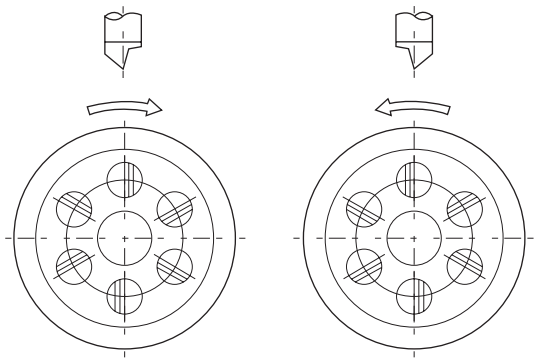
机械式驱动顶尖 MECHANICAL DRIVE CENTER



驱动销类型 Special drive pin styles

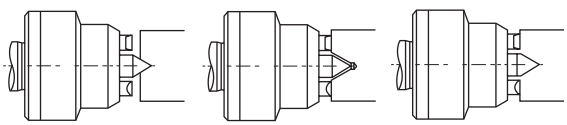


驱动销的旋转方向 Driving pins direction of rotation



使用左旋驱动销
Use left hand pins

使用右旋驱动销
Use right hand pins



中心孔较小
Undersize(×)

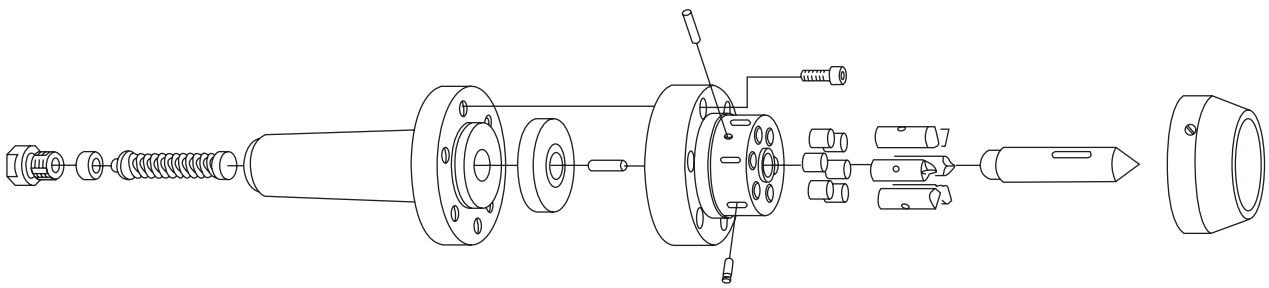
中心孔较大
Oversize(×)

中心孔正确
Correct(√)

中心孔尺寸 Center hole size

型号 Model	中心孔尺寸 Center hole dia.limits			
	最小 Min(ϕ)		最大 Max(ϕ)	
	英制 inch	公制 ϕ	英制 inch	公制 ϕ
D34-d19	0.08	2	0.16	4
D50-d28	0.16	4	0.31	8
D72-d40	0.16	6	0.47	12
D100-d55	0.31	8	0.63	16

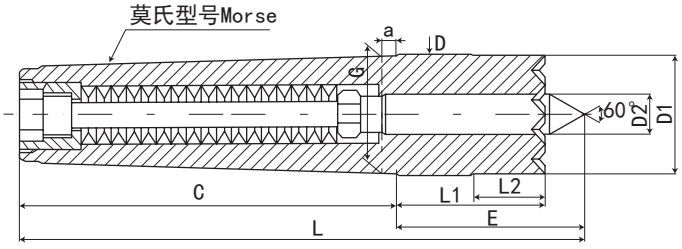
驱动顶尖内部结构图 The construction of face driver



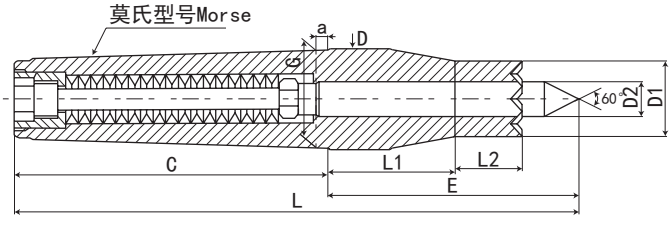
回转顶尖系列 LIVE CENTER SERIES

固定端面拨动顶尖 FIXED FACE DRIVER CENTER

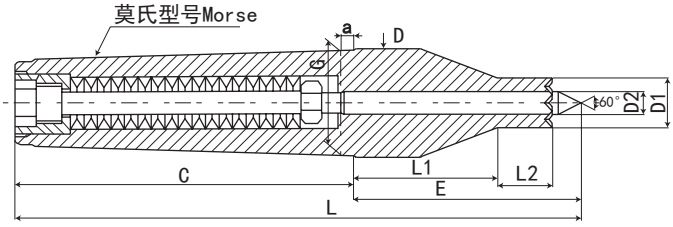












莫氏型号 Morse	规格 / 型号 Model	G	L	L1	L2	C	E	D	D1	D2	a	FIG
MT3	GDQDDJ-MT3-D32	23.825	146	44	22	86	60	26	32	16	5	1
MT3	GDQDDJ-MT3-D25	23.825	143	44	22	86	57	26	25	12	5	1
MT3	GDQDDJ-MT3-D20	23.825	143	46	15	86	57	26	20	10	5	2
MT3	GDQDDJ-MT3-D16	23.825	141	46	15	86	55	26	16	8	5	2
MT3	GDQDDJ-MT3-D12	23.825	139	46	15	86	53	26	12	6	5	3
MT3	GDQDDJ-MT3-D10	23.825	139	46	15	86	53	26	10	5	5	3
MT4	GDQDDJ-MT4-D32	31.267	169	44	22	109	60	33	32	16	6.5	1
MT4	GDQDDJ-MT4-D25	31.267	166	44	22	109	57	33	25	12	6.5	1
MT4	GDQDDJ-MT4-D20	31.267	166	46	15	109	57	33	20	10	6.5	2
MT4	GDQDDJ-MT4-D16	31.267	164	46	15	109	55	33	16	8	6.5	2
MT4	GDQDDJ-MT4-D12	31.267	162	46	15	109	53	33	12	6	6.5	3
MT4	GDQDDJ-MT4-D10	31.267	162	46	15	109	53	33	10	5	6.5	3

特点：

◎此免夹顶针因机械之结构，故障率低。经深冷热处理为（HRC60° ±1°）。

◎以往车床加工使用传动夹来带动，避免工作物之停止，此免夹顶针在本体端面有 6T 及 8T 之设计来顶住加工之端面，就可免用传动夹，使加工方便速度更快。

◎此免夹顶针，滚齿机械可使用。

Features:

◎ Body and center shaft are made of alloy steel with heat and sub-zero treatment.
Hardened:HRC60° ±1°

◎ Driving dog is reqired for traditional lathes turning to prevent workpiece from stopping.These work driving centers are either with 6 teeth or 8 teeth design for superseding the driving dogs.It supports the workpiece on end surface for easy setup and rapid machinging.

◎ The work-driving center is also applicable for gear hobbing machine.