



和舜机械
HESHUN

2017.05
NO.12

MACHINERY CO.,LTD.



西安海纳精密机械有限公司

XI 'AN HEINER PRECISION MACHINERY CO., LTD

专业[品质]
值得[信赖]



Company Profile

公司簡介

台灣和舜機械股份有限公司成立於1986年，工廠位於台灣台中縣，為一家專業生產回轉頂針之製造工廠。工廠占地面積近5000平方公尺。自有CNC數控車,銑,磨加工設備及高精度檢測設備.1992年通過機械研究所MCS機械零組件標準認證,2003年通過ISO-9001認證。

和舜公司年產8萬支以上各種頂針,除銷售台灣,中國大陸,歐洲,澳洲,東南亞,俄羅斯,南非市場,並以OEM方式銷售產品至德國,瑞士,日本與美國等地之著名機床附件製造廠。

和舜公司每年不斷地投入心力開發新產品及增設機械設備，以期服務客戶，力求滿足市場需求。

公司保留產品規格配備變更或停用之權利。

本公司為本著作人,享有著作人格權及著作財產權。

本型錄所列商標各相關之合法擁有者。

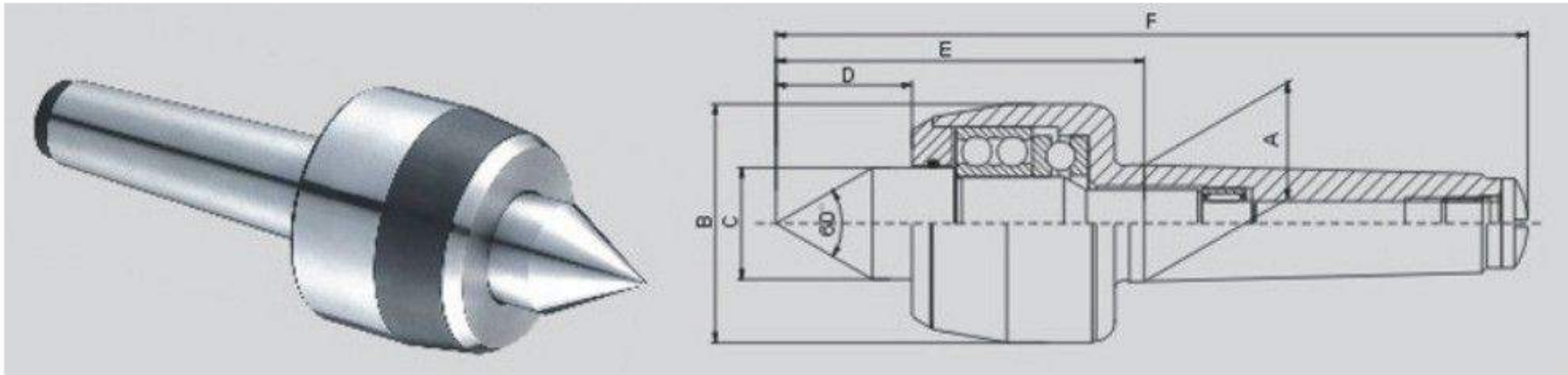
INDEX

CACR

NCK 高性能回轉頂針 	NCK 合金高性能回轉頂針 	NCK 加長高性能回轉頂針 
NCK CNC用高性能回轉頂針 	NCP 高速回轉頂針 	NCP 合金高速回轉頂針 
NCP 加長高速回轉頂針 	NCP CNC用高速回轉頂針 	NCF強力回轉頂針 
NCF強力加長回轉頂針 	NCFP強力可換回轉頂針 	NCM 外回轉頂針 
NCM 外回轉頂針 	PC 雙列回轉頂針 	NCH精密頂針 (附螺帽型) 
BC傘型頂針 	TC鑽頭套筒 	Tc延長型鑽頭套筒 

高性能回轉頂針 >> HIGH-SPEED ROTARY THIMBIE

NCK型 LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用雙列角接觸球軸承，推力球軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

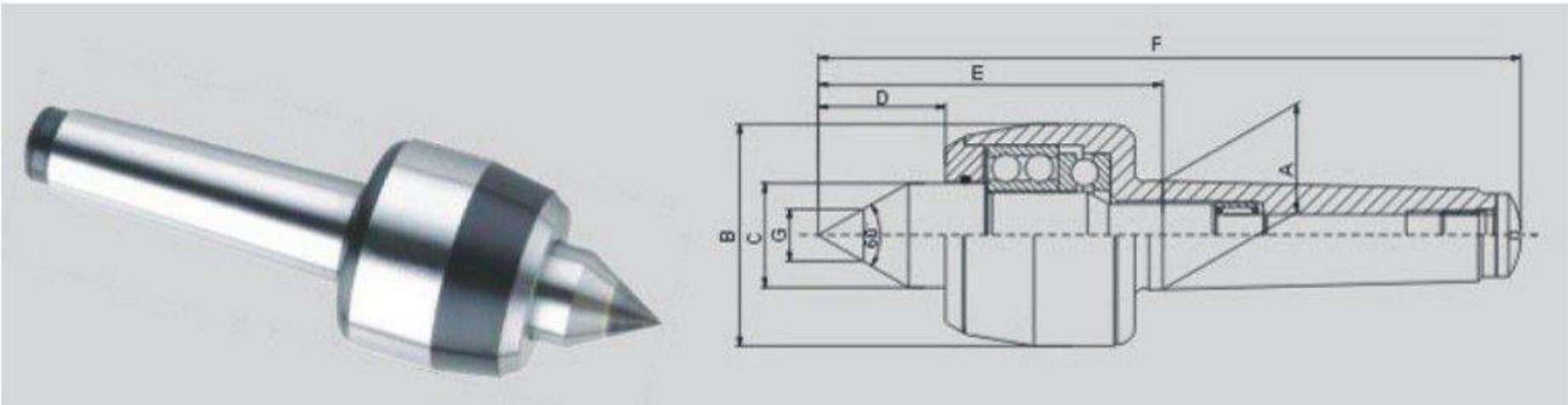
Scope: CNC lathe precision machining high-speed medium load,

Feature:

- ◆The thimble with double row angular contact ball bearings, thrust ball bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60°±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A	B	C	D	E	F	MAX IOAD	MAX SPEED	ACCURACY	UNIT PRICE
		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)	(PRM)	(mm)	(RMB)
08010002	NCK-MT.2A	17.780	47	24	29.4	78	143.5	180	5000	0.005	
08010003	NCK-MT.3A	23.825	59	26	31.6	90	172	400	4000	0.005	
08010004	NCK-MT.4A	31.267	64	30	36.6	100	202	600	3500	0.005	
08010005	NCK-MT.5A	44.399	78	38	45.3	110	249	1200	2500	0.005	
08010006	NCK-MT.6A	63.348	106	54	60	152	334	1500	2000	0.005	

高性能合金回轉頂針 >> HIGH-SPEED ROTARY THIMBIE



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用雙列角接觸球軸承，推力球軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆心軸頭部鑲嵌了硬質合金，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

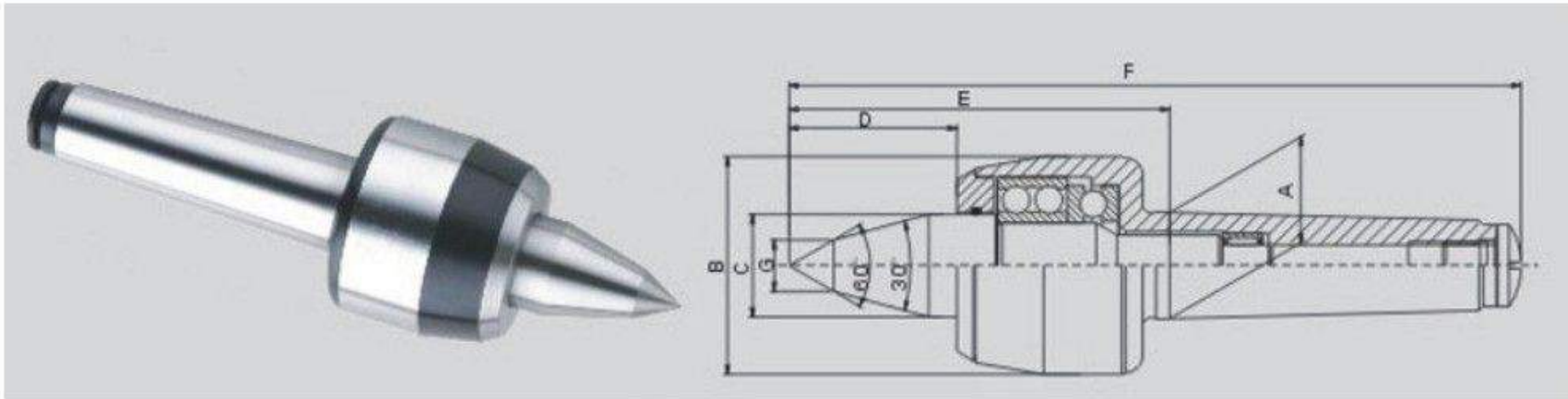
Scope: CNC lathe precision machining high-speed medium load,

Feature:

- ◆The thimble with double row angular contact ball bearings, thrust ball bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Spindle head mounted carbide, with high rigidity and high wear resistance
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
08020002	NCK-MT.2B	17.780	47	24	29.4	78	143.5	12	180	5000	0.005	
08020003	NCK-MT.3B	23.825	59	26	31.6	90	172	15	400	4000	0.005	
08020004	NCK-MT.4B	31.267	64	30	36.6	100	202	18	600	3500	0.005	
08020005	NCK-MT.5B	44.399	78	38	45.3	110	249	24	1200	2500	0.005	
08020006	NCK-MT.6B	63.348	106	54	60	152	334	30	1500	2000	0.005	

高性能加長回轉頂針 >> HIGH-SPEED ROTARY THIMBIE



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用雙列角接觸球軸承，推力球軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆頂尖頭部加長，降低了對刀具的要求，提高了工作效率。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

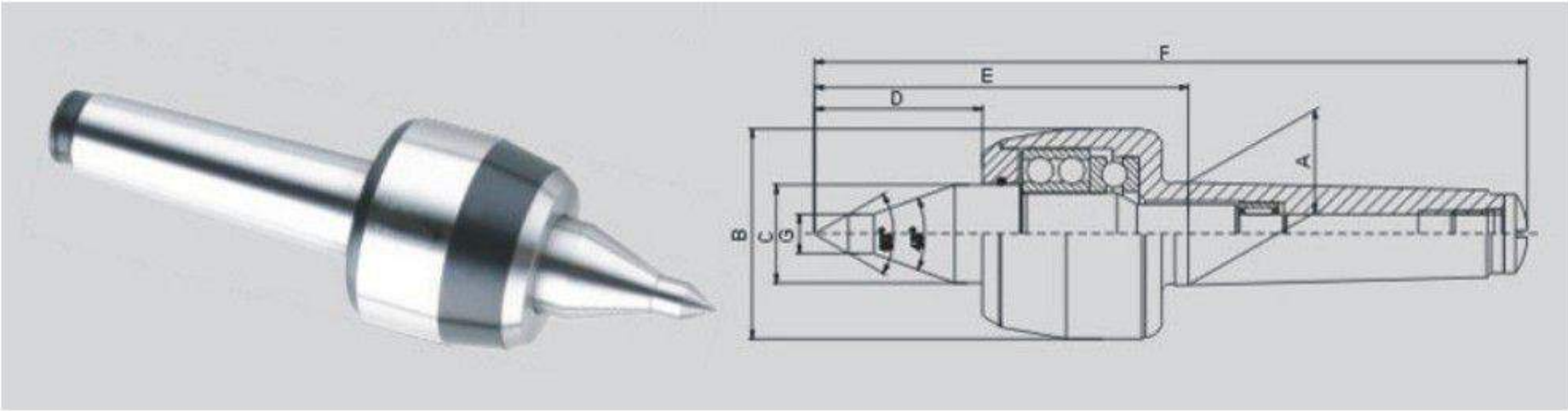
Scope: CNC lathe precision machining high-speed medium load,

Feature:

- ◆The thimble with double row angular contact ball bearings, thrust ball bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Top head longer, reducing the demand for tools to improve work efficiency.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60°±2° with a high rigidity and high wear resistance.
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
08030002	NCK-MT.2L	17.780	47	24	29.4	92	154	120	5000	0.005	
08030003	NCK-MT.3L	23.825	59	26	31.6	103	184	300	4000	0.005	
08030004	NCK-MT.4L	31.267	64	30	36.6	112	214.5	500	3500	0.005	
08030005	NCK-MT.5L	44.399	78	38	45.3	133	263	1000	2500	0.005	

高性能CNC用回轉頂針 >> HIGH-SPEED ROTARY THIMBIE



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用雙列角接觸球軸承，推力球軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆頂尖頭部加長，切減小了直徑，提高了刀具使用效率，并支持細軸加工。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining high-speed medium load,

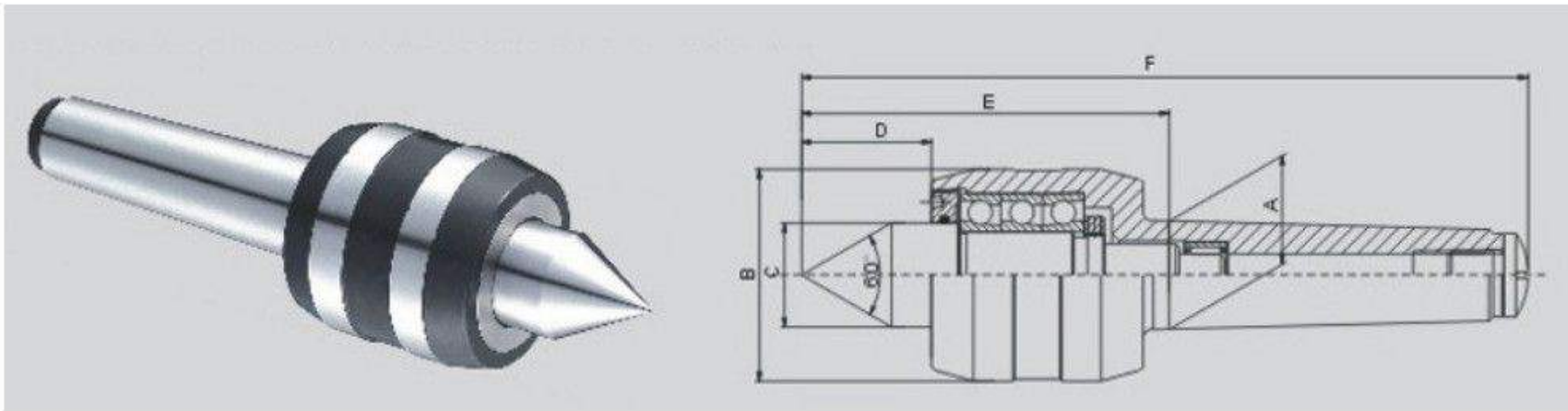
Feature:

- ◆The thimble with double row angular contact ball bearings, thrust ball bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Top head longer, reducing the diameter of cut, the tool used to improve efficiency, and support small-axis machining.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60 °±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
08040002	NCK-MT.2F	17.780	47	24	29.4	91	155	8	120	5000	0.005	
08040003	NCK-MT.3F	23.825	59	26	31.6	105	186	10	300	4000	0.005	
08040004	NCK-MT.4F	31.267	64	30	36.6	114	216.5	12	500	3500	0.005	
08040005	NCK-MT.5F	44.399	78	38	45.3	136	266	15	1000	2500	0.005	

高速回轉頂針 >> HIGH-SPEED LIVE CENTER

NCP型 LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用精密配組角接觸軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining high-speed medium load,

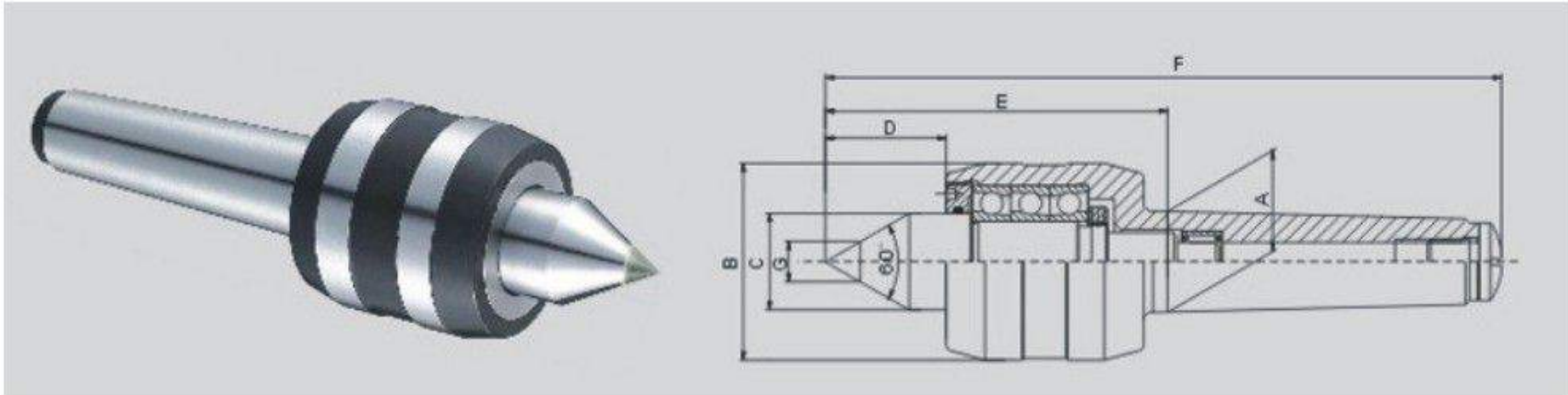
Feature:

- ◆The thimble with the group with precision angular contact bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60°±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
08050003	NCP-MT.3A	23.825	48	24	29.5	85	166	250	6000	0.005	
08050004	NCP-MT.4A	31.267	61	30	37.5	106.5	209	400	5000	0.005	
08050005	NCP-MT.5A	44.399	72	38	46	124.5	254	800	4000	0.005	

高速合金回轉頂針 >> HIGH-SPEED LIVE CENTER

NCP型 LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用精密配組角接觸軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆心軸頭部鑲嵌了硬質合金，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining high-speed medium load,

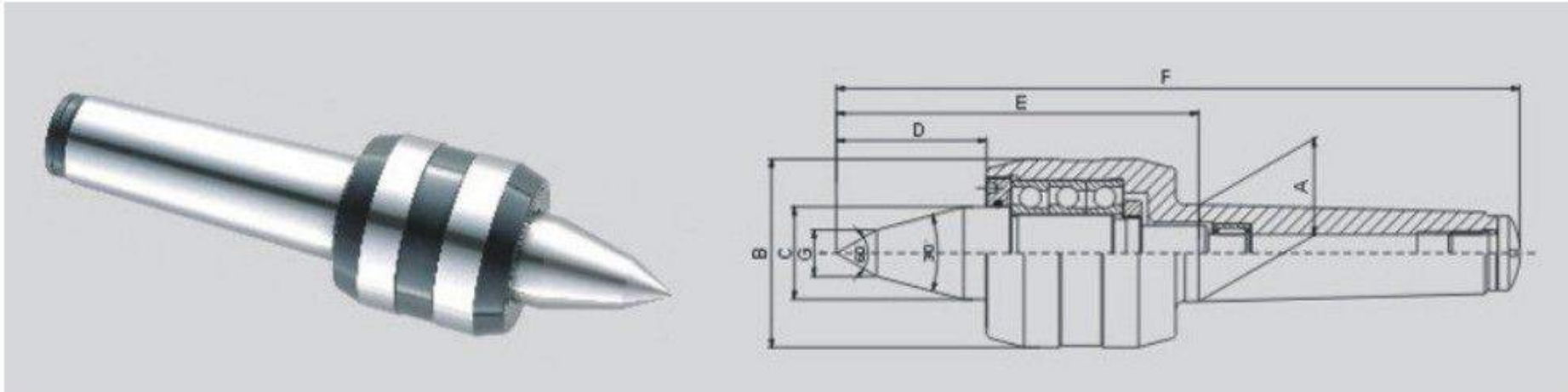
Feature:

- ◆The thimble with the group with precision angular contact bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Spindle head mounted carbide, with high rigidity and high wear resistance
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
08060003	NCP-MT.3B	23.825	48	24	29.5	85	166	15	250	6000	0.005	
08060004	NCP-MT.4B	31.267	61	30	37.5	106.5	209	18	400	5000	0.005	
08060005	NCP-MT.5B	44.399	72	38	46	124.5	254	24	800	4000	0.005	

高速加長回轉頂針 >> HIGH-SPEED LIVE CENTER

NCP型 LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用精密配組角接觸軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆頂尖頭部加長，降低了對刀具的要求，提高了工作效率。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining high-speed medium load,

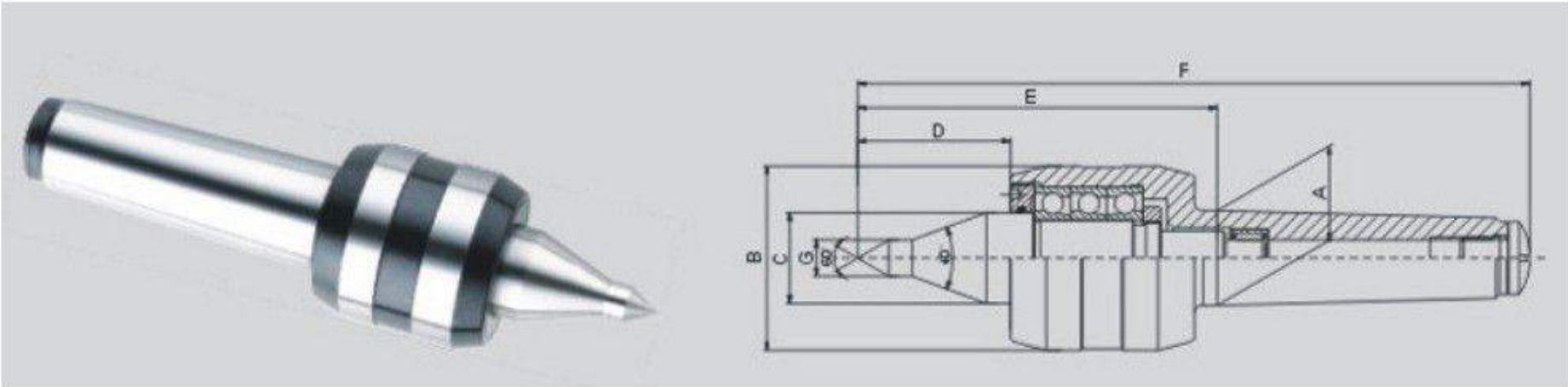
Feature:

- ◆The thimble with the group with precision angular contact bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Top head longer, reducing the demand for tools to improve work efficiency.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60°±2° with a high rigidity and high wear resistance.
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
08070003	NCP-MT.3L	23.825	48	24	40	96	177	12	200	6000	0.005	
08070004	NCP-MT.4L	31.267	61	30	48.5	117.5	220	15	350	5000	0.005	
08070005	NCP-MT.5L	44.399	72	38	60	138.5	268	20	650	4000	0.005	

高速CNC用回轉頂針 >> HIGH-SPEED LIVE CENTER

NCP型 LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用精密配組角接觸軸承和滾針軸承組合。
- ◆心軸加長，能有效提高切削性能，減少震動影響。
- ◆頂尖頭部加長，切減小了直徑，提高了刀具使用效率，并支持細軸加工。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining high-speed medium load,

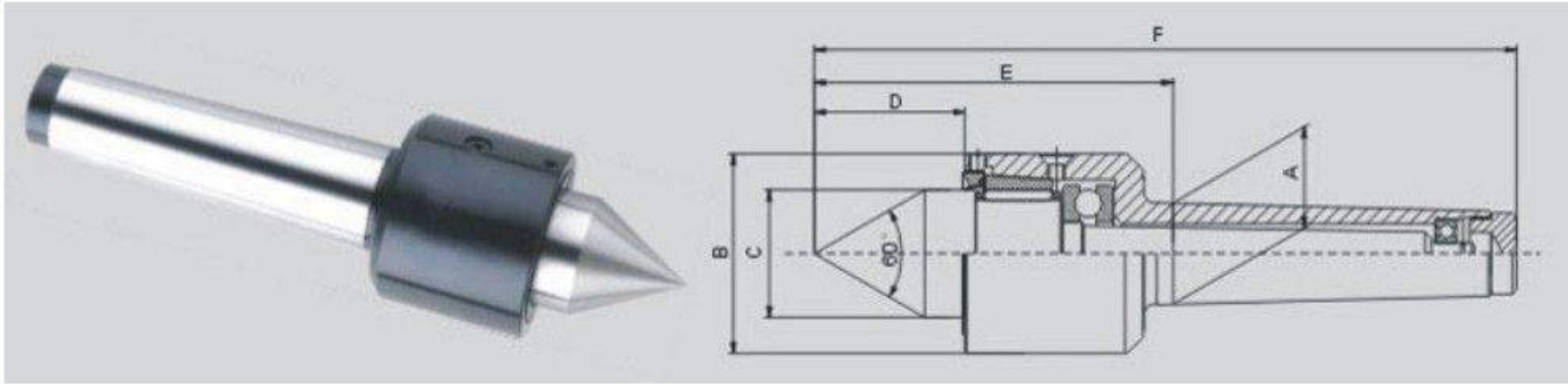
Feature:

- ◆The thimble with the group with precision angular contact bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can effectively improve the cutting performance and reduce vibration.
- ◆Top head longer, reducing the diameter of cut, the tool used to improve efficiency, and support small-axis machining.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60 °±2° with a high rigidity and high wear resistance.
- ◆Front-end dust seal to prevent dust entering treatment and cutting fluid bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
08080003	NCP-MT.3F	23.825	48	24	43	99	180	8	180	6000	0.005	
08080004	NCP-MT.4F	31.267	61	30	50.5	119.5	222	10	300	5000	0.005	
08080005	NCP-MT.5F	44.399	72	38	140.5	140.5	270	12	600	4000	0.005	

強力回轉頂針 >> SUPER ROLLING LIVE CENTER

NCF型 LIVE CENTER



適用範圍：CNC車床中高速較大負荷精密加工

特徵：

- ◆該頂針使用滾針軸承，推力軸承和深溝軸承組合。
- ◆心軸加長至頂尖錐柄最末端，最大限度提高了切削性能，減少震動影響。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆頭部有加油孔，可對內部軸承加油保養，從而延長頂尖使用壽命。
- ◆滾針外收縮套可微調滾針軸承間隙，從而提高頂針精密度和延長使用壽命。

Scope: High-speed large capacity CNC lathe precision machining,

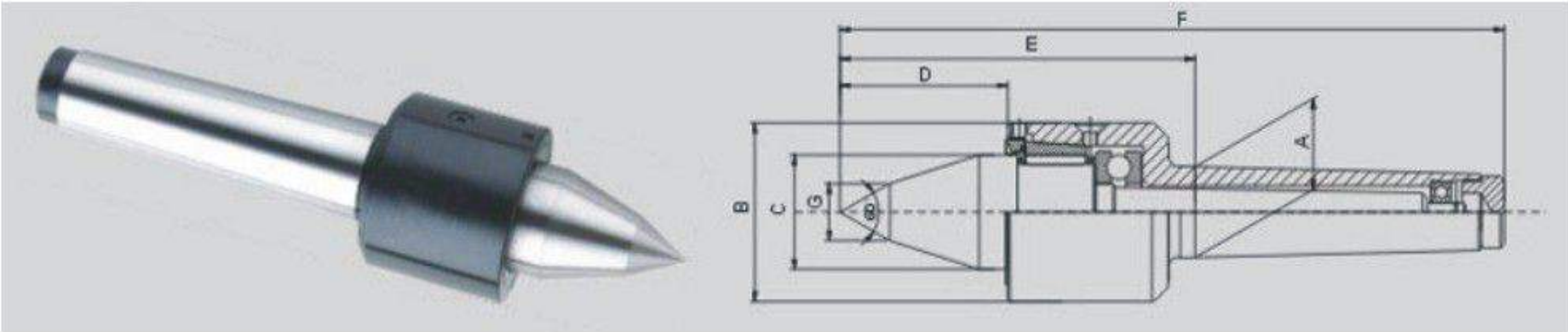
Features:

- ◆The thimble with needle roller bearings, thrust bearings and deep groove bearing assembly.
- ◆Spindle lengthened to the top most end of the taper to maximize the cutting performance and reduce vibration.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60°±2, with a high rigidity and high wear resistance.
- ◆Head filling the hole, you can refuel and maintenance of the internal bearings, thereby extending the life of the top.
- ◆Outside the shrink sleeve can fine-tune the needle roller bearing clearance, thereby enhancing the thimble precision and long life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09040002	NCF-MT.2A	17.780	36	22	26	68.5	125.5	300	5500	0.005	
09040003	NCF-MT.3A	23.825	47	30	35	93	165.5	400	4500	0.005	
09040004	NCF-MT.4A	31.267	55	35	40	104	196.6	1200	4000	0.005	
09040005	NCF-MT.5A	44.399	70	45	51	134.5	246	2000	3000	0.005	
09040006	NCF-MT.6A	63.348	90	60	65	139	321	4000	2000	0.005	

強力加長回轉頂針 >> SUPER ROLLING LIVE CENTER (EXTENDED)

NCF型 LIVE CENTER



適用範圍：CNC車床中高速較大負荷精密加工

特徵：

- ◆該頂針使用滾針軸承，推力軸承和深溝軸承組合。
- ◆心軸加長至頂尖錐柄最末端，最大限度提高了切削性能，減少震動影響。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆頭部有加油孔，可對內部軸承加油保養，從而延長頂尖使用壽命。
- ◆滾針外收縮套可微調滾針軸承間隙，從而提高頂針精密度和延長使用壽命。

Scope: High-speed large capacity CNC lathe precision machining,

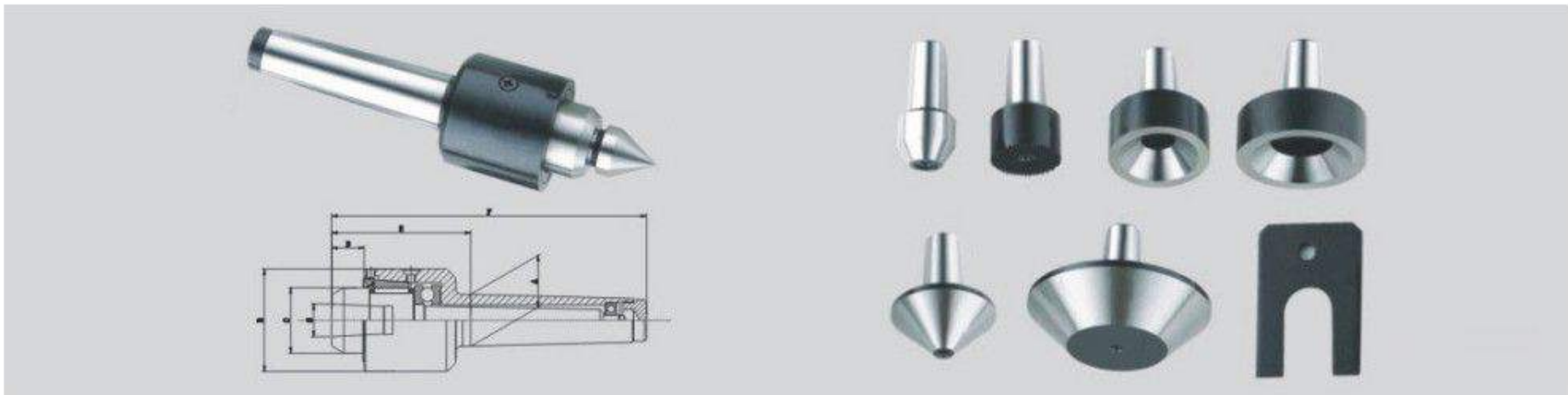
Features:

- ◆The thimble with needle roller bearings, thrust bearings and deep groove bearing assembly.
- ◆Spindle lengthened to the top most end of the taper to maximize the cutting performance and reduce vibration.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60°±2°, with a high rigidity and high wear resistance.
- ◆Head filling the hole, you can refuel and maintenance of the internal bearings, thereby extending the life of the top.
- ◆Outside the shrink sleeve can fine-tune the needle roller bearing clearance, thereby enhancing the thimble precision and long life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09050002	NCF-MT.2B	17.780	36	22	33	68.5	125.5	12	250	5500	0.005	
09050003	NCF-MT.3B	23.825	47	30	44	93	165.5	15	350	4500	0.005	
09050004	NCF-MT.4B	31.267	55	35	51	104	196.6	18	800	4000	0.005	
09050005	NCF-MT.5B	44.399	70	45	69	134.5	246	24	1500	3000	0.005	
09050006	NCF-MT.6B	63.348	90	60	88	139	321	32	3500	2000	0.005	

強力回轉頂針 >> SUPER ROLLING LIVE CENTER

NCF 型 LIVE CENTER



適用範圍：CNC車床中高速較大負荷精密加工

特徵：

- ◆該頂針使用滾針軸承，推力軸承和深溝軸承組合。
- ◆心軸加長至頂尖錐柄最末端，最大限度提高了切削性能，減少震動影響。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆頭部有加油孔，可對內部軸承加油保養，從而延長頂尖使用壽命。
- ◆滾針外收縮套可微調滾針軸承間隙，從而提高頂針精密度和延長使用壽命。
- ◆可換頭可廣泛應用于小中心孔，大孔管件，反頂基準，或斷面支撐等零件加工。

Scope: High-speed large capacity CNC lathe precision machining,

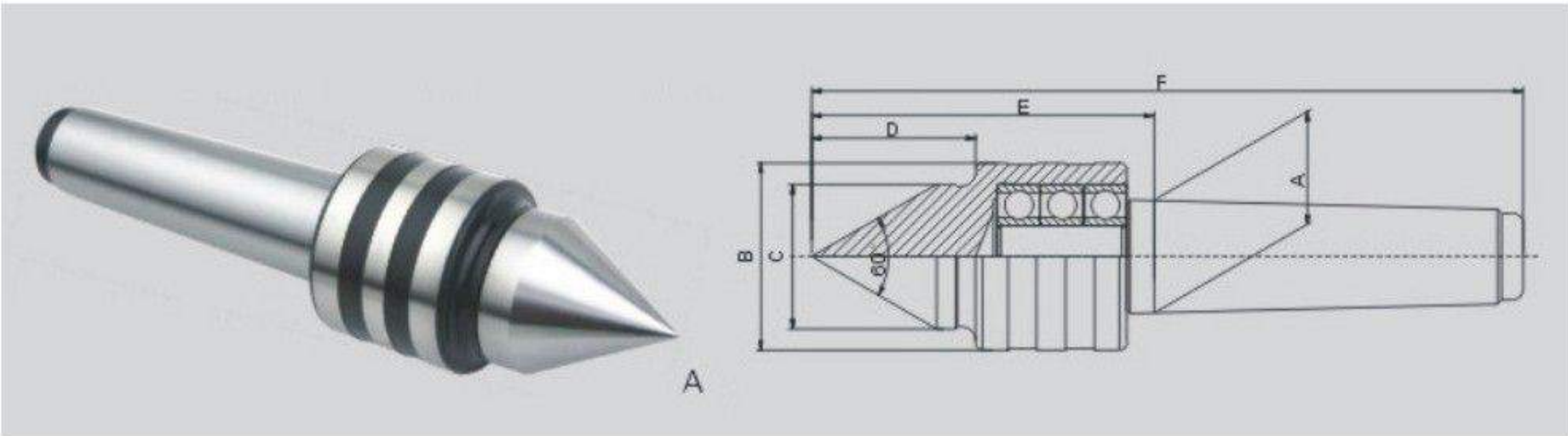
Features:

- ◆The thimble with needle roller bearings, thrust bearings and deep groove bearing assembly.
- ◆Spindle lengthened to the top most end of the taper to maximize the cutting performance and reduce vibration.
- ◆Spindle with alloy tool steel, heat treatment hardness up to HRC60° ± 2° with a high rigidity and high wear resistance.
- ◆Head filling the hole, you can refuel and maintenance of the internal bearings, thereby extending the life of the top.
- ◆Outside the shrink sleeve can fine-tune the needle roller bearing clearance, thereby enhancing the thimble precision and long life.
- ◆Can be widely used for the first small center hole, large hole tube, anti-top base, supporting other parts or sections processed.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09050002	NCF-MT.2B	17.780	36	22	10.5	68.5	110	10	300	5500	0.005	
09050003	NCF-MT.3B	23.825	47	30	15	93	145	15	400	4500	0.005	
09050004	NCF-MT.4B	31.267	55	35	16	104	172	20	1200	4000	0.005	
09050005	NCF-MT.5B	44.399	70	45	20	134.5	216	25	2000	3000	0.005	
09050006	NCF-MT.6B	63.348	90	60	23	139	282	30	4000	2000	0.005	

外回轉頂針 >> VERSA-TURN LIVE CENTER

NCM型 LIVE CENTER



適用範圍：CNC車床中速輕負荷精密加工

特徵：

- ◆該頂針使用深溝軸承組合。
- ◆頭部使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining in the speed of light load

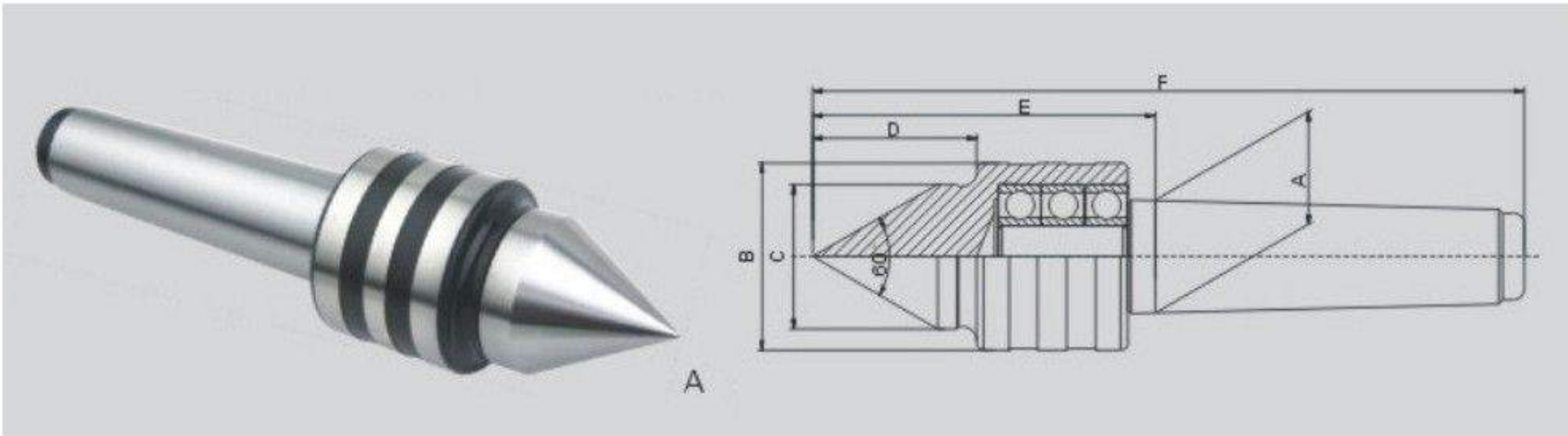
Features:

- ◆The thimble with deep groove bearing combinations.
- ◆Head of alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal, to prevent cutting fluid and dust into the bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09010001	NCM-MT.1A	12.065	32	22	27	56.5	110	40	4000	0.005	
09010002	NCM-MT.2A	17.780	39	28	33.5	72.5	136.5	120	3500	0.005	
09010003	NCM-MT.3A	23.825	46	32	37.5	83.5	164.5	250	3000	0.005	
09010004	NCM-MT.4A	31.267	52	40	45.5	95	197.5	350	2500	0.005	
09010005	NCM-MT.5A	44.399	69	50	58.5	113.5	251.5	500	2500	0.005	

外回轉頂針 >> VERSA-TURN LIVE CENTER

NCM 型 LIVE CENTER



適用範圍：CNC車床中速輕負荷精密加工

特徵：

- ◆該頂針使用深溝軸承組合。
- ◆頭部使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining in the speed of light load

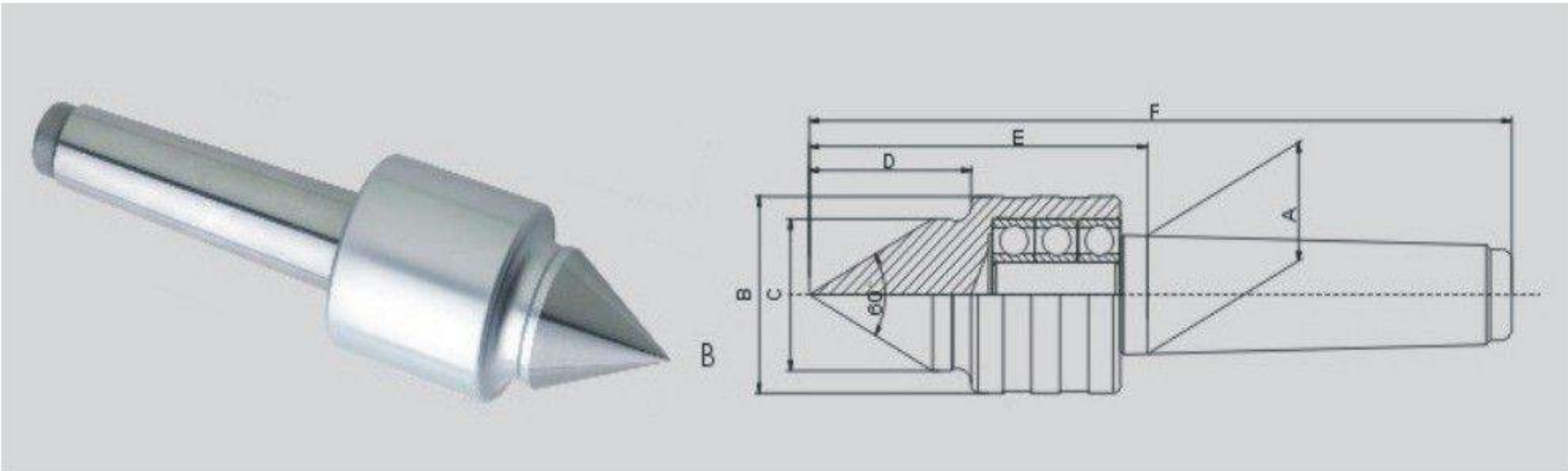
Features:

- ◆The thimble with deep groove bearing combinations.
- ◆Head of alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal, to prevent cutting fluid and dust into the bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09020001	NCM-MT.1B	12.065	32	22	27	56.5	110	40	4000	0.005	
09020002	NCM-MT.2B	17.780	39	28	33.5	72.5	136.5	120	3500	0.005	
09020003	NCM-MT.3B	23.825	46	32	37.5	83.5	164.5	250	3000	0.005	
09020004	NCM-MT.4B	31.267	52	40	45.5	95	197.5	350	2500	0.005	
09020005	NCM-MT.5B	44.399	69	50	58.5	113.5	251.5	500	2500	0.005	

外回轉頂針 >> VERSA-TURN LIVE CENTER

NCM型 LIVE CENTER



適用範圍：CNC車床中速輕負荷精密加工

特徵：

- ◆該頂針使用深溝軸承組合。
- ◆頭部使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe precision machining in the speed of light load

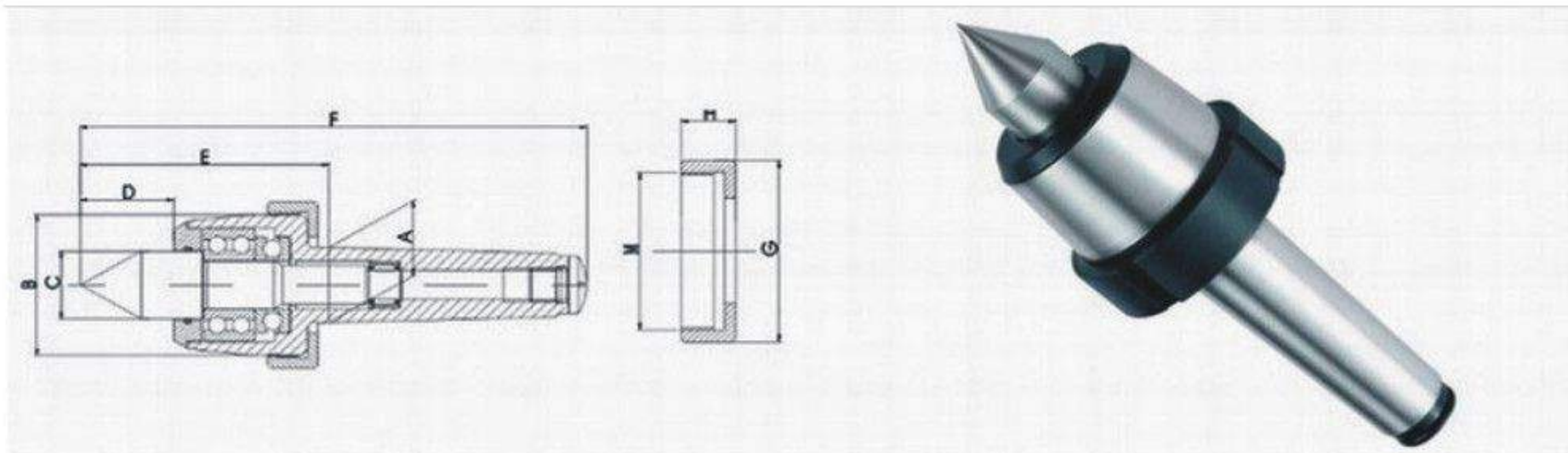
Features:

- ◆The thimble with deep groove bearing combinations.
- ◆Head of alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal, to prevent cutting fluid and dust into the bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09030002	NCM-MT.2C	17.780	40	22	26	68	132	120	3500	0.005	
09030003	NCM-MT.3C	23.825	45	26	32	83	164	250	3000	0.005	
09030004	NCM-MT.4C	31.267	48	30	34	93.5	188	350	2500	0.005	
09030005	NCM-MT.5C	44.399	68	45	50	118.5	248	500	2000	0.005	

精密回轉頂針(附螺帽型) >> REMOVE NUT PRECISION LIVE CENTER

NCH型 LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用雙列深溝軸承，推力軸承和滾針軸承組合。
- ◆心軸加長，能有效提高了切削性能，減少震動影響。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe in high-speed precision machining in the load

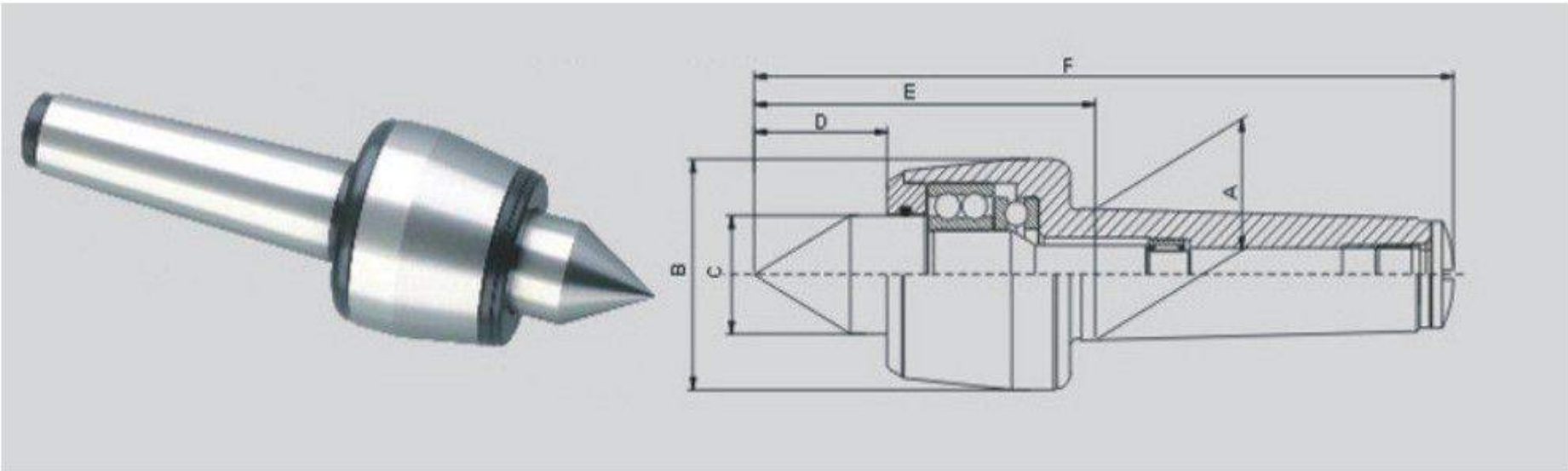
Features:

- ◆The thimble with double row deep groove bearings, thrust bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can improve the cutting performance and reduce vibration.
- ◆Spindle with alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal, to prevent cutting fluid and dust into the bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	M (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09070002	NCH-MT.2	17.780	42	20	26	72	136	44x1.5	180	5000	0.005	
09070003	NCH-MT.3	23.825	52	24	30	90	166	54x1.5	300	4000	0.005	
09070004	NCH-MT.4	31.267	58	28	35	100	200	60x1.5	600	3500	0.005	
09070005	NCH-MT.5	44.399	76	38	48	110	252	78x1.5	1200	2500	0.005	

雙列回轉頂針 >> SUPER ROLLING LIVE CENTER (EXTENDED)

PC型 LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用雙列深溝軸承，推力軸承和滾針軸承組合。
- ◆心軸加長，能有效提高了切削性能，減少震動影響。
- ◆心軸使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆前端有防塵密封，防止切削液和灰塵進入軸承，延長了頂尖使用壽命。

Scope: CNC lathe in high-speed precision machining in the load

Features:

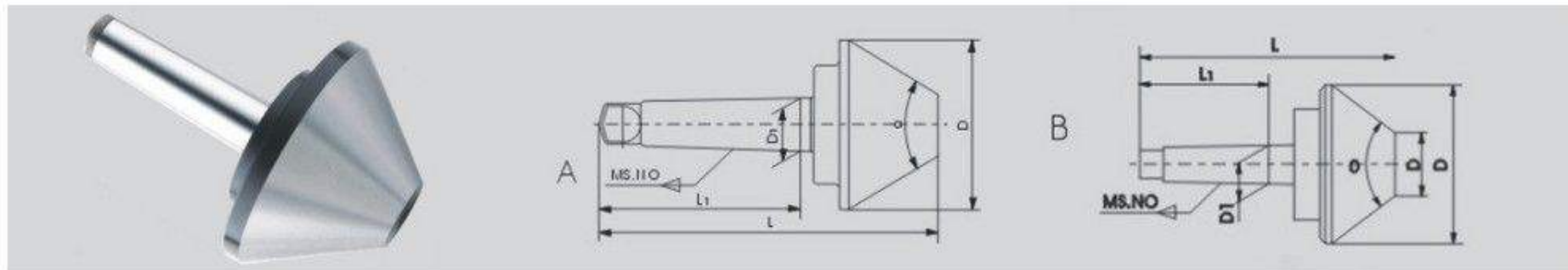
- ◆The thimble with double row deep groove bearings, thrust bearings and needle roller bearing assembly.
- ◆Spindle lengthened, can improve the cutting performance and reduce vibration.
- ◆Spindle with alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.
- ◆Front-end dust seal, to prevent cutting fluid and dust into the bearing, extend the top life.

ORDER NO.	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	MAX IOAD (kg)	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09060002	PC-MT.2	17.780	47	20	26	78	138	180	5000	0.005	
09060003	PC-MT.3	23.825	52	24	30	90	166	300	4000	0.005	
09060004	PC-MT.4	31.267	61	28	35	100	200	600	3500	0.005	
09060005	PC-MT.5	44.399	78	38	48	110	252	1200	2500	0.005	

傘型頂針 >> BULL NOSE CENTER

BC型

LIVE CENTER



適用範圍：CNC車床中高速中負荷精密加工

特徵：

- ◆該頂針使用滾錐軸承和滾針軸承組合。
- ◆該頂針使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。
- ◆適用於較大支內孔徑加工使用。

Scope: CNC lathe in high-speed precision machining in the load

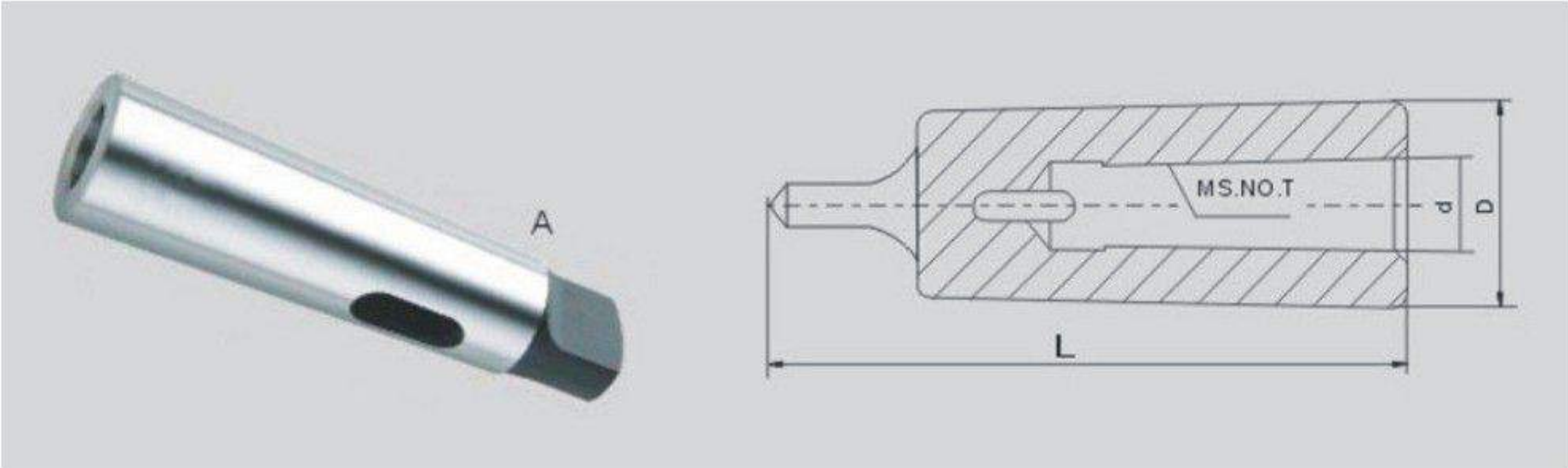
Features:

- ◆The thimble and needle bearings with tapered roller bearing assembly.
- ◆The thimble of alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.
- ◆Greater support for use within the aperture processing.

ORDER NO.	MODEL	Type	MS.NO	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d (mm)	θ	MAX SPEED (PRM)	ACCURACY (mm)	UNIT PRICE (RMB)
09090261.5	BC61.5-MT.2	B	2	135	64	61.5	17.780	12.7	70°	3000	0.008	
090902080	BC80-MT.2	B	2	126	64	80	17.780	11.9	75°	3000	0.008	
090902085	BC85-MT.2	B	2	126	64	85	17.780	11.9	75°	3000	0.008	
090903080	BC80-MT.3	B	3	162	81	80	23.825	11.9	75°	2700	0.008	
090903090	BC90-MT.3	A	3	174.75	94	90	23.825	25	60°	2700	0.008	
090903100	BC100-MT.3	B	3	148	81	100	23.825	40	75°	2500	0.008	
090903120	BC120-MT.3	B	3	160	81	120	23.825	32	60°	2300	0.008	
090904080	BC80-MT.4	A	4	204	80	80	31.267	11.9	60°	2700	0.008	
090904100	BC100-MT.4	A	4	206	100	100	31.267	30	75°	2500	0.008	
090904110	BC110-MT.4	B	4	184	102.5	110	31.267	32	60°	2000	0.008	
090904120	BC120-MT.4	B	4	180	102.5	120	31.267	50	75°	2000	0.008	
090904125	BC125-MT.4	A	4	215	117.5	125	31.267	40	60°	1800	0.008	
090904132	BC132-MT.4	B	4	176	102.5	132	31.267	34	52°	1800	0.008	
090904150	BC150-MT.4	A	4	238	117.5	150	31.267	40	60°	1600	0.01	
090904160	BC160-MT.4	B	4	211.5	102.5	160	31.267	34.9	75°	1500	0.01	
090904200	BC200-MT.4	B	4	225	102.5	200	31.267	40.4	75°	1300	0.01	
090905070	BC70-MT.5	B	5	205	149.5	70	44.399	20	60°	2000	0.01	
090905080	BC80-MT.5	B	5	199	149.5	80	44.399	20	60°	2000	0.01	
090905090	BC90-MT.5	A	5	239	149.5	90	44.399	25	75°	1800	0.01	
090905100	BC100-MT.5	B	5	227	149.5	100	44.399	30	60°	1500	0.01	
090905120	BC120-MT.5	B	5	231	129.5	120	44.399	32	75°	1500	0.01	
090905140	BC140-MT.5	B	5	269	149.5	140	44.399	40	60°	1300	0.01	
090905150	BC150-MT.5	B	5	243	149.5	150	44.399	34.9	60°	1300	0.01	
090905160	BC160-MT.5	A	5	282	149.5	160	44.399	40	60°	1200	0.01	
090905200	BC200-MT.5	B	5	252	129.5	200	44.399	40	75°	1000	0.01	

鑽頭套筒 >> DRILL CHUCK SLEEVE

TC型 CHUCK SLEEVE



適用範圍：適用於裝夾錐柄鑽頭，鉸刀。

特徵：

- ◆該套筒使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。

Scope: CNC lathe in high-speed precision machining in the load

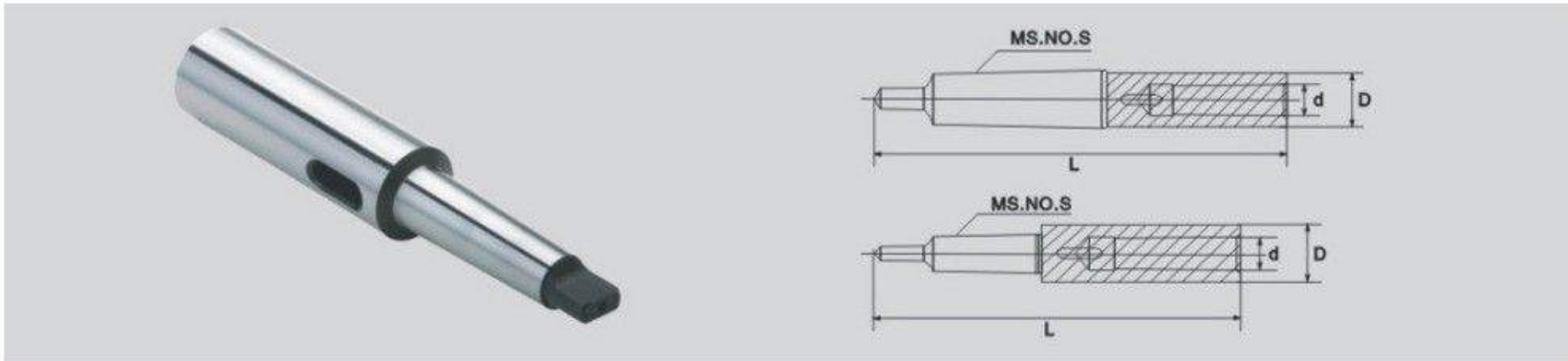
Features:

- ◆The thimble of alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.

ORDER NO.	MODEL	MS.NO.T	L (mm)	D (mm)	d (mm)	ACCURACY (mm)	UNIT PRICE (RMB)
TC-201	1x2	1	92	18.6	12.065	0.010	
TC-202	1x3	1	99	24.1	12.065	0.010	
TC-202	2x3	2	112	24.7	17.780	0.010	
TC-203	1x4	1	124	31.6	12.065	0.010	
TC-204	2x4	2	124	31.6	17.780	0.010	
TC-205	3x4	3	140	32.4	23.825	0.010	
TC-207	2x5	2	156	44.7	17.780	0.015	
TC-208	3x5	3	156	44.7	23.825	0.015	
TC-209	4x5	4	170	45.5	31.267	0.015	
TC-210	3x6	3	218	63.8	23.825	0.015	
TC-211	4x6	4	218	63.8	31.267	0.015	
TC-212	5x6	5	218	63.8	44.399	0.015	

延長型鑽頭套筒 >> EATENSION DRILL CHUCK SLEEVE

TC型 CHUCK SLEEVE



適用範圍：適用於裝夾錐柄鑽頭，鉸刀。

特徵：

- ◆該套筒使用合金工具鋼，熱處理后硬度HRC60°±2°，具備高剛性及高耐磨性。

Scope: CNC lathe in high-speed precision machining in the load

Features:

- ◆The thimble of alloy tool steel, heat treatment hardness HRC60 °±2°, with a high rigidity and high wear resistance.

ORDER NO.	MODEL	MS.NO.	MS.NO.T	L (mm)	D (mm)	d (mm)	ACCURACY (mm)	UNIT PRICE (RMB)
TC301	1x1	1	1	145	20	12.065	0.02	
TC302	1x2	1	2	160	30	17.780	0.02	
TC303	1x3	1	3	181	36	23.825	0.02	
TC304	2x1	2	1	160	20	12.065	0.02	
TC305	2x2	2	2	175	30	17.780	0.02	
TC306	2x3	2	3	196	36	23.825	0.02	
TC307	2x4	2	4	221	48	31.267	0.02	
TC308	3x2	3	2	194	30	17.780	0.02	
TC309	3x3	3	3	215	36	23.825	0.02	
TC310	3x4	3	4	215	48	31.267	0.02	
TC311	3x5	3	5	240	63	44.399	0.02	
TC312	4x2	4	2	215	30	17.780	0.02	
TC313	4x3	4	3	240	36	23.825	0.02	
TC314	4x4	4	4	265	48	31.267	0.02	
TC315	4x5	4	5	300	63	44.399	0.02	
TC316	5x2	5	2	247	30	17.780	0.02	
TC317	5x3	5	3	268	36	23.825	0.02	
TC318	5x4	5	4	300	48	31.267	0.02	
TC319	5x5	5	5	335	63	44.399	0.02	
TC320	6x2	6	2	309	30	17.780	0.02	
TC321	6x3	6	3	330	36	23.825	0.02	
TC322	6x4	6	4	355	48	31.267	0.02	
TC323	6x5	6	5	390	63	44.399	0.02	

专业品质 · 追求卓越

海纳精密切削科技股份有限公司

HEINER PRECISION MACHINING TECHNOLOGY CO., LTD.

海纳精密机械有限公司

HEINER PRECISION MACHINERY CO., LTD.

地址：陕西省西安市莲湖区大庆路3号

Add: No.3 Daqing Road, Lianhu District, Xi'an, Shaanxi Province

Tel: 029-81333283

Fax: 029-84110636

E-mail: hanatool@163.com

www.nc360.net



hai na now!

