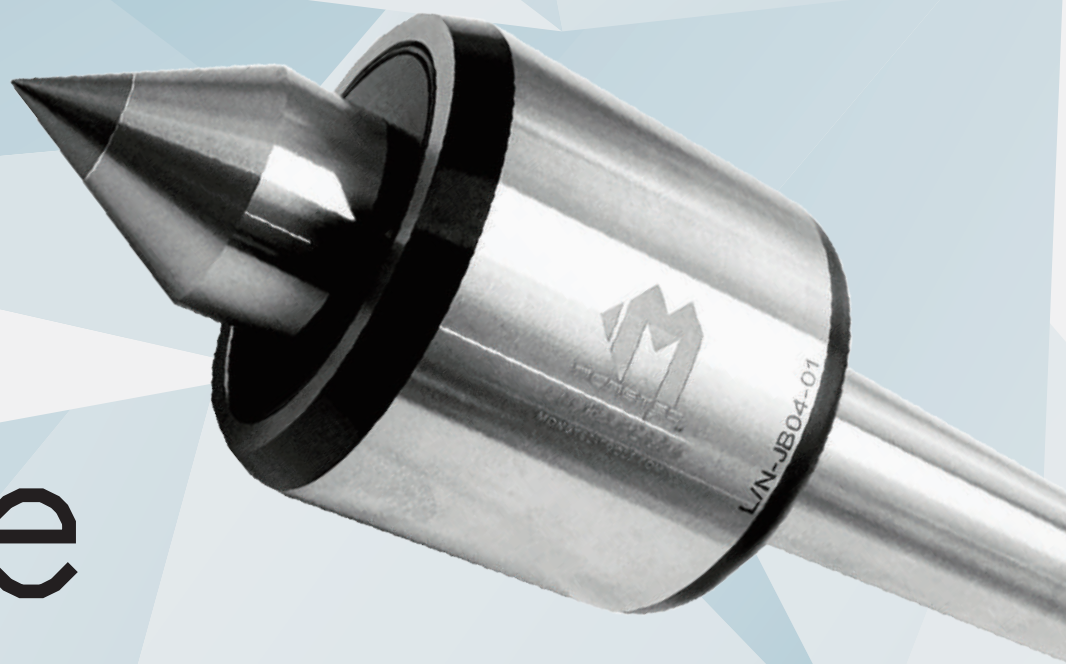




MONGTEC®

CNC 職人のこだわり
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Face Drivers



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Mongtec is a professional leader in precision center technology, dedicated to providing high-accuracy workholding solutions for modern industry. Our comprehensive product range includes Rotary Centers, Fixed Centers, Face Drivers, and specialized Pipe Centers.

Beyond standard offerings, we leverage our extensive technical expertise to provide customized solutions and support for special applications and large-scale workpieces.

At Mongtec, we consistently adhere to the principle of "Back to Basics, Striving for Excellence." Recognizing that even the smallest precision deviation can impact results, we are committed to delivering only the highest quality products to ensure superior stability and tool life.

We aim to be your most trusted partner in precision manufacturing, helping you achieve greater production efficiency through our technical services and quality assurance.



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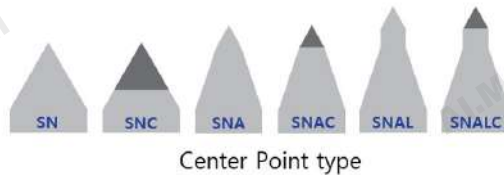
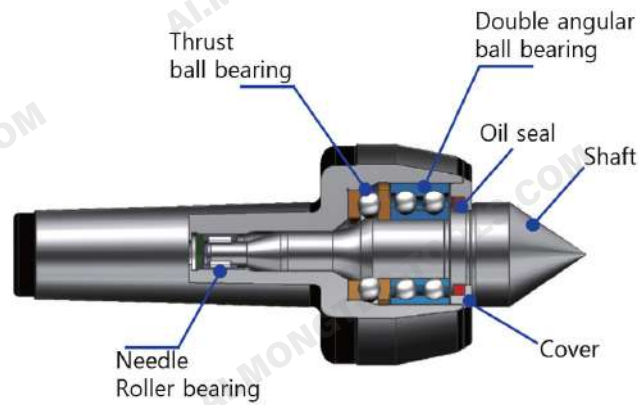
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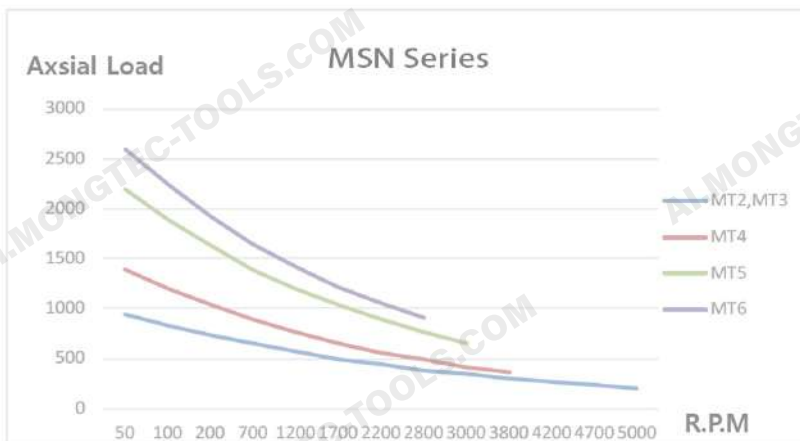
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MSN Series

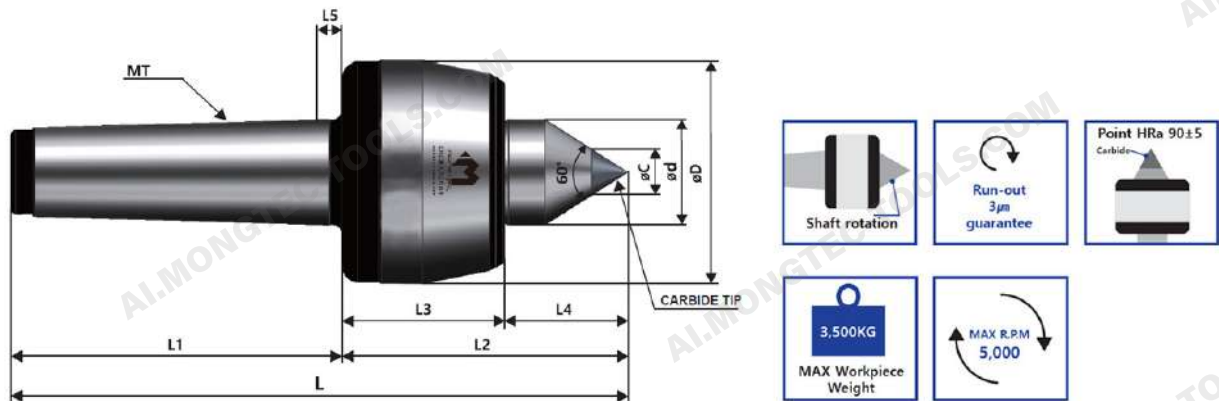
CNC standard turning center most popular



- Prevention the:enetration of cutting oil and extraneous bodies by using the special oil seal.
- High degree of accuracy of rotation and high durability by using the triplexed bearing structure as high degree of precision.
- Run out - Max 0.003mm.



MSNC

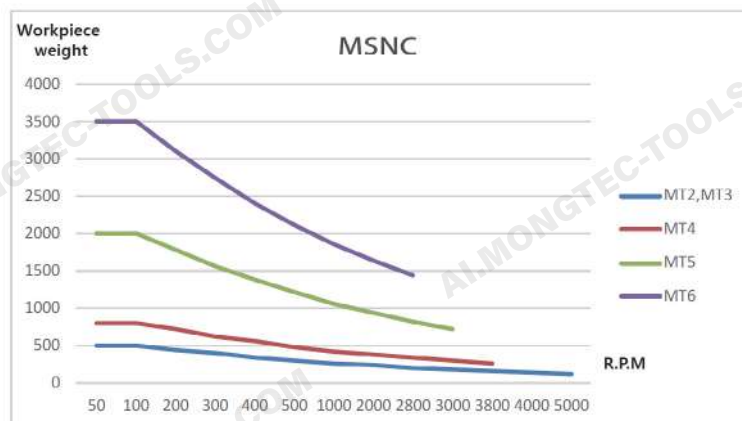


- Center axis point Carbide type
- Carbide hardness HRA 90~91

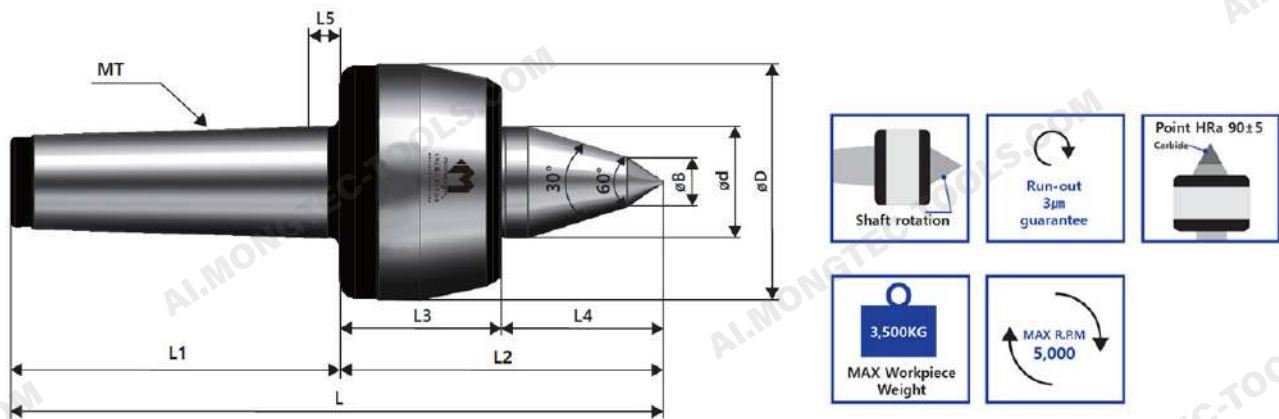
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
2101001	MT2	49	25	140	68	72	42	30	6	10	500	5,000	0.03
3101001	MT3	49	25	157	85	72	42	30	6	10	500	5,000	0.003
4101001	MT4	66	31.4	201	108	93	53	40	8	14	800	3,800	0.003
5101001	MT5	83	40	251	136	115	65	50	8	18	2,000	3,000	0.003
6101001	MT6	105	50	324	189	135	75	60	10	30	3,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

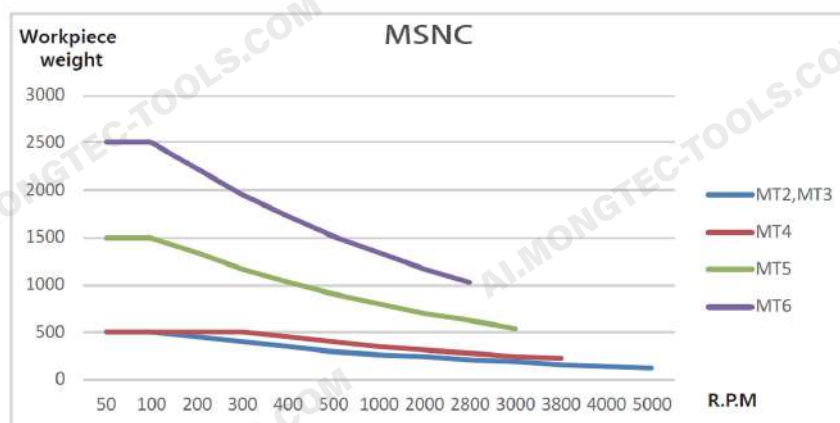


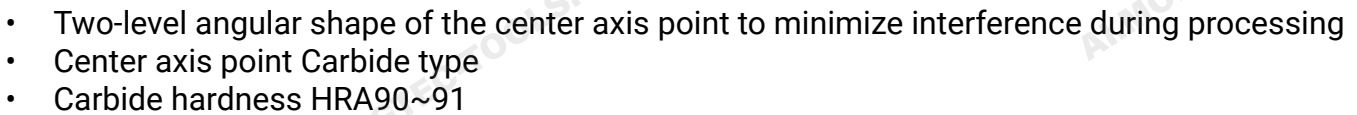
- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
2201001	MT2	49	25	155	68	87	42	45	6	10	500	5,000	0.003
3201001	MT3	49	25	172	85	87	42	45	6	10	500	5,000	0.003
4201001	MT4	66	31.4	214	108	106	53	53	8	14	500	3,800	0.003
5201001	MT5	83	40	40	136	130	65	65	8	16	1,500	3,000	0.003
6201001	MT6	105	50	50	189	153	75	78	10	18	2,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



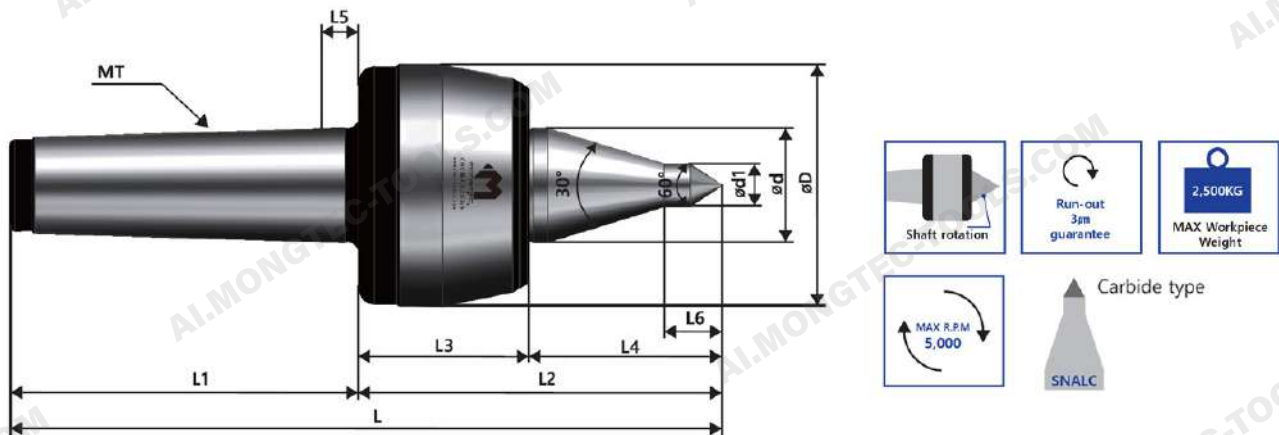


Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
2301001	MT2	49	25	155	68	87	42	45	6	10	500	5,000	0.003
3301001	MT3	49	25	172	85	87	42	45	6	10	500	5,000	0.003
4301001	MT4	66	31.4	214	108	106	53	53	8	14	500	3,800	0.003
5301001	MT5	83	40	266	136	130	65	65	8	16	1,500	3,000	0.003
6301001	MT6	105	50	342	189	153	75	78	10	18	2,500	2,800	0.003

R.P.M	MT2, MT3	MT4	MT5	MT6
50	500	500	1500	2500
100	500	500	1500	2500
200	450	500	1400	2400
300	400	500	1300	2300
400	350	450	1100	2000
500	300	400	1000	1800
1000	250	350	800	1400
2000	200	300	700	1200
2800	180	250	600	1000
3000	150	200	500	-
3800	100	200	-	-
5000	100	-	-	-

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MSNAL/MSNALC

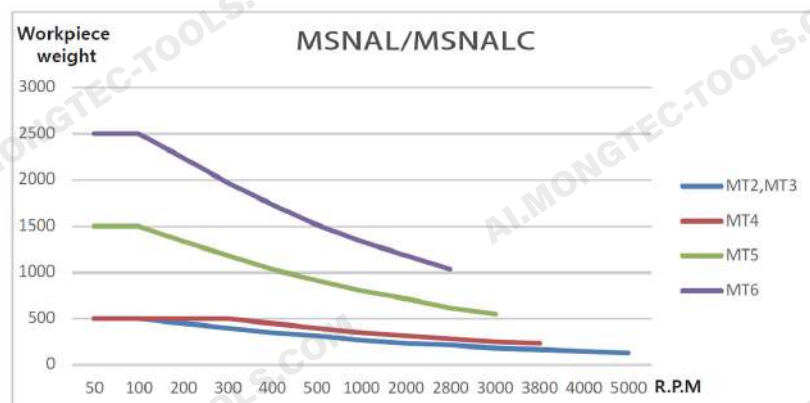


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	Φd1			
2401001	MT2	49	25	160	68	92	42	50	6	17	10	500	5,000	0.003
3401001	MT3	49	25	177	85	92	42	50	6	17	10	500	5,000	0.003
4401001	MT4	66	31.4	221	108	113	53	60	8	18	12	500	3,800	0.003
5401001	MT5	83	40	276	136	140	65	75	8	17.5	12	1,500	3,000	0.003
6401001	MT6	105	50	359	189	170	75	95	10	25	14	2,500	2,800	0.003
2501001	MT2	49	25	160	68	92	42	50	6	17	10	500	5,000	0.003
3501001	MT3	49	25	177	85	92	42	50	6	17	10	500	5,000	0.003
4501001	MT4	66	31.4	221	108	113	53	60	8	18	12	500	3,800	0.003
5501001	MT5	83	40	276	136	140	65	75	8	17.5	12	1,500	3,000	0.003
6501001	MT6	105	50	359	189	170	75	95	10	25	14	2,500	2,800	0.003

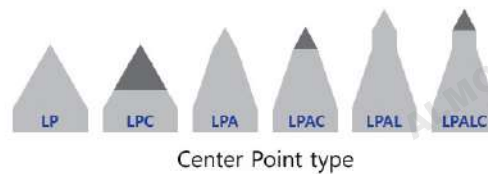
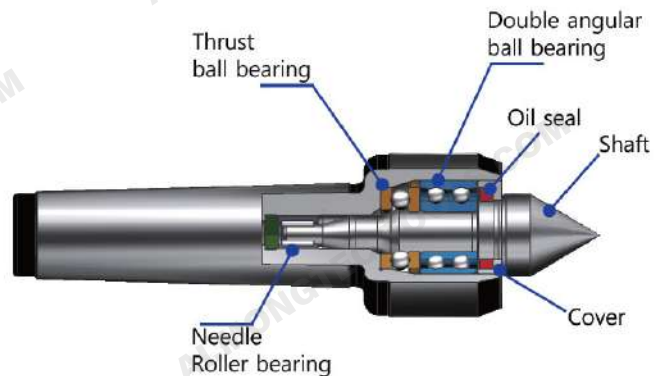
Maximum R.P.M based on Workpiece weight.



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MLP Series

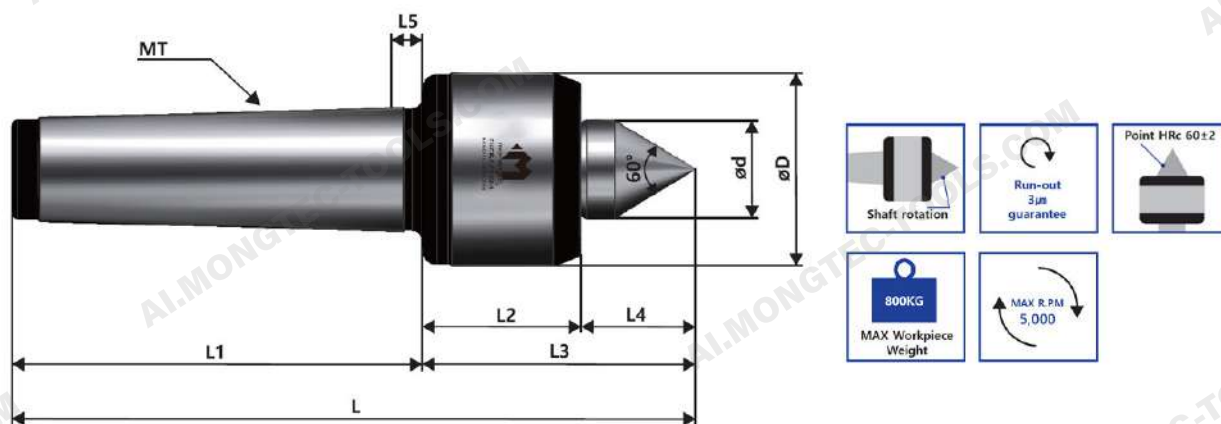
ECO Version



- Low cost rotation center for CNC machining
- Special oil seal adopted to prevent penetration by coolant and foreign matter
- Triplexed bearing structure as high degree of precision



MLP

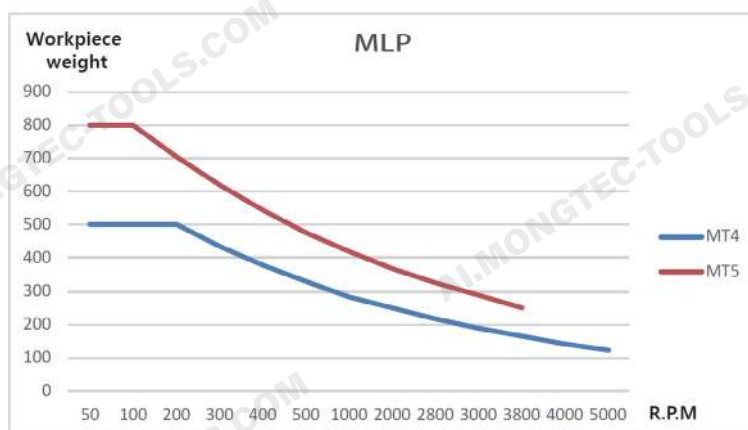


Heat treatment hardness of center axis point HRC 58~62

Dimension

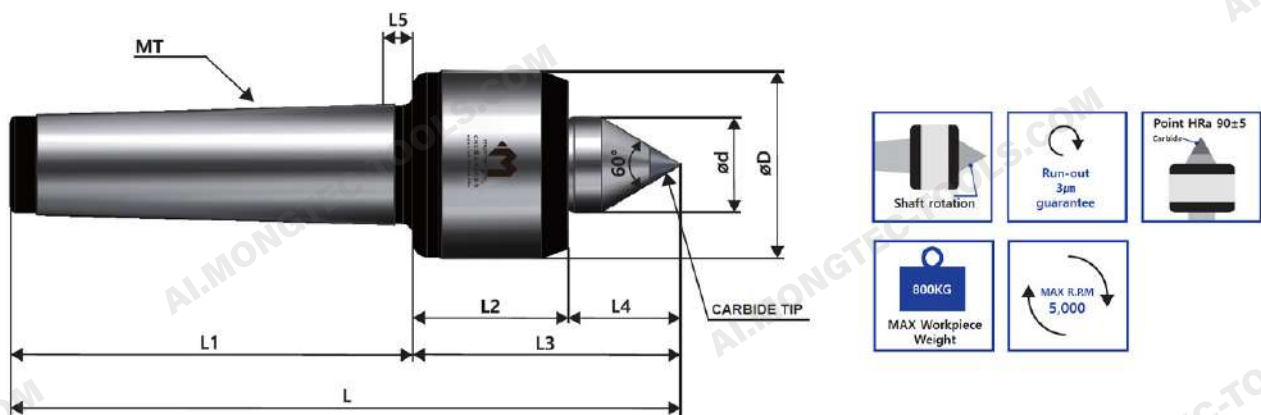
Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
4004101	MT4	49	25	180	108	42	72	30	6.5	500	5,000	0.003
5004101	MT5	66	31.1	229	136	53	93	40	6.5	800	3,800	0.003

Maximum R.P.M based on Workpiece weight.



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MLPC

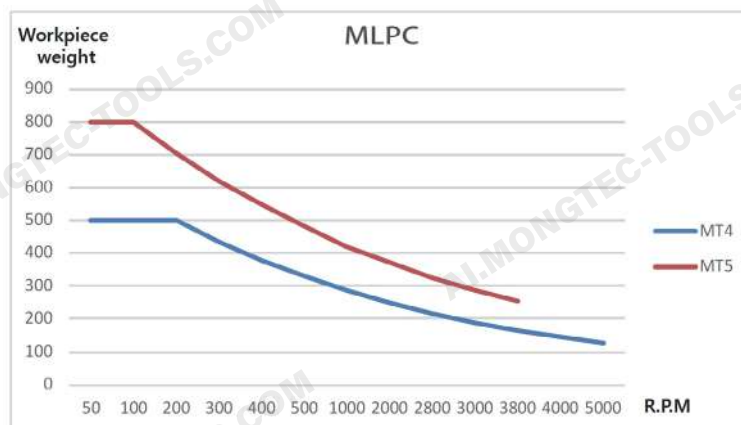


- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

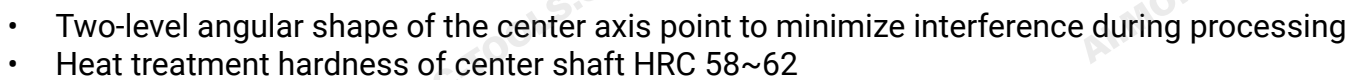
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
4104101	MT4	49	25	25	180	42	72	30	6.5	10	500	5,000	0.003
5104101	MT5	66	31.4	31.4	136	53	93	40	6.5	14	800	3,800	0.003

Maximum R.P.M based on Workpiece weight.



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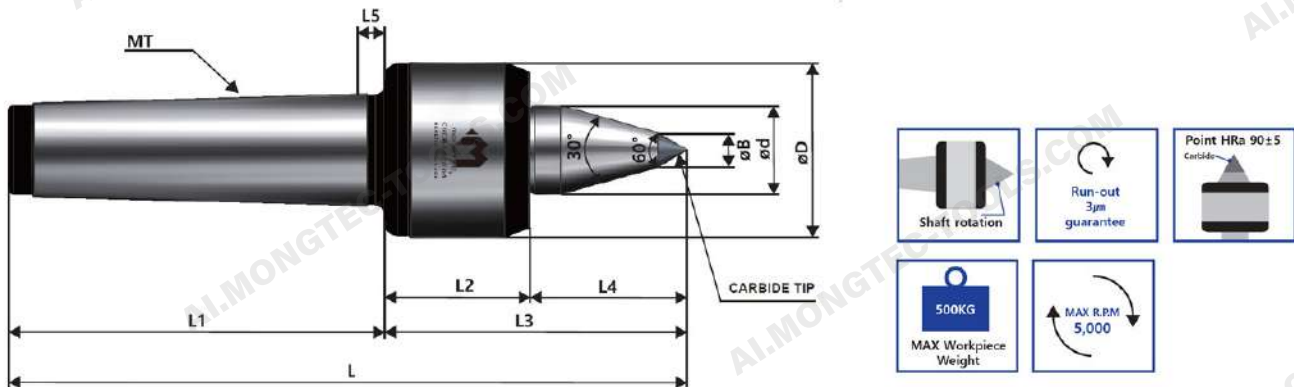


Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
4204101	MT4	49	25	195	108	42	87	45	6.5	10	500	5,000	0.003
5204104	MT5	66	31.4	242	136	53	106	53	6.5	14	500	3,800	0.003

R.P.M	MT4 Workpiece weight	MT5 Workpiece weight
50	500	500
100	500	500
200	500	500
300	450	400
400	400	350
500	350	300
1000	250	200
2000	180	150
3000	140	120
3800	150	150
4000	130	110
5000	120	100

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MLPAC

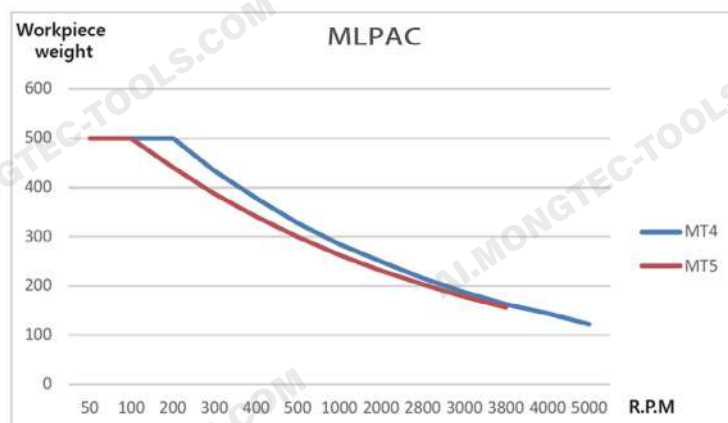


- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

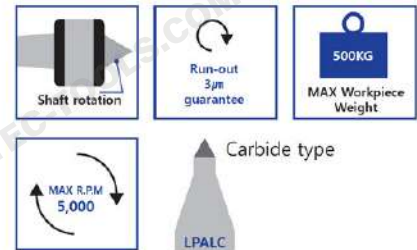
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ϕD	ϕd	L	L1	L2	L3	L4	L5	ϕB			
4304101	MT4	49	25	195	108	42	87	45	6.5	10	500	5,000	0.003
5304101	MT5	66	31.4	242	136	53	106	53	6.5	14	500	3,800	0.003

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MLPAL/MLPALC

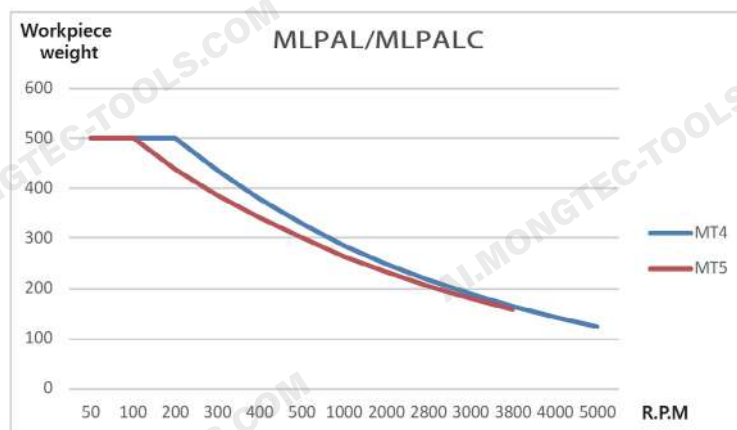


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	ΦB			
4404101	MT4	49	25	200	108	42	92	50	6.5	17	10	500	5,000	0.003
5404101	MT5	66	31.4	249	136	53	113	60	6.5	18	12	500	3,800	0.003
4504101	MT4	49	25	200	108	42	92	50	6.5	17	10	500	5,000	0.003
5504101	MT5	66	31.4	249	136	53	113	60	6.5	18	12	500	3,800	0.003

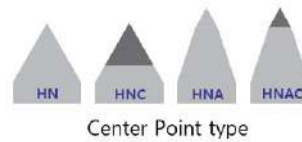
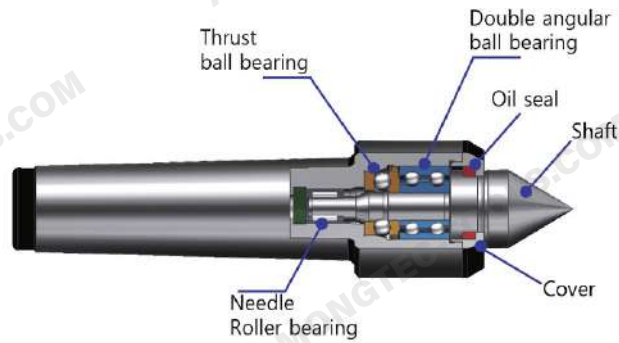
Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

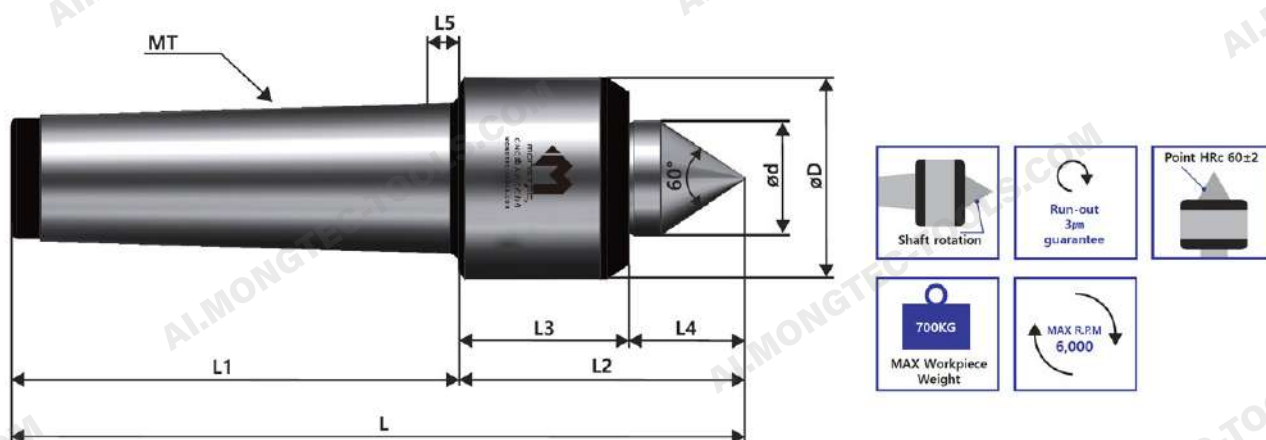
MHN Series

Slim body standard center



- SHAFT Rotating centers that minimizes interference to the tool
- Special oil seal adopted to prevent penetration by coolant and foreign matter
- Triplexed bearing structure as high degree of precision
- Run out - Max 0.003mm



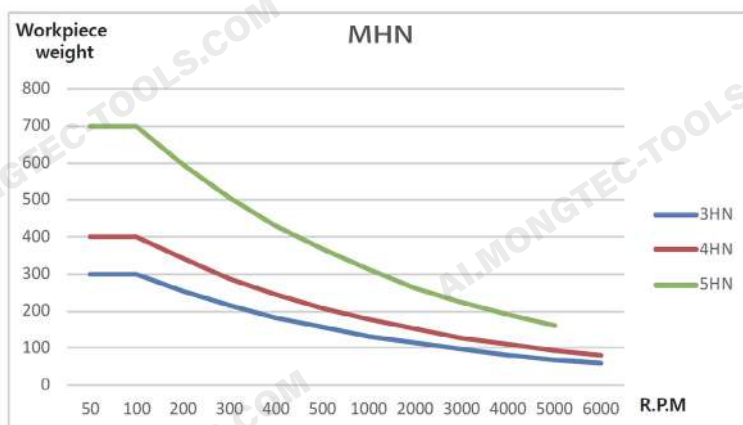


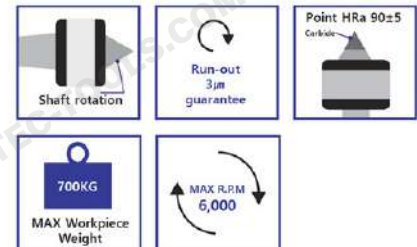
Heat treatment hardness of center axis point HRC 58~62

Dimension

Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ϕD	ϕd	L	L1	L2	L3	L4	L5			
3003101	MT3	34	18	146.5	85	61.5	40.5	21	5.3	300	6,000	0.003
4003101	MT4	42	24	177	108	69	41	28	5.3	400	5,000	0.003
5003101	MT5	58	31.4	229.3	134.3	95	60	35	6.3	700	4,000	0.003

Maximum R.P.M based on Workpiece weight.



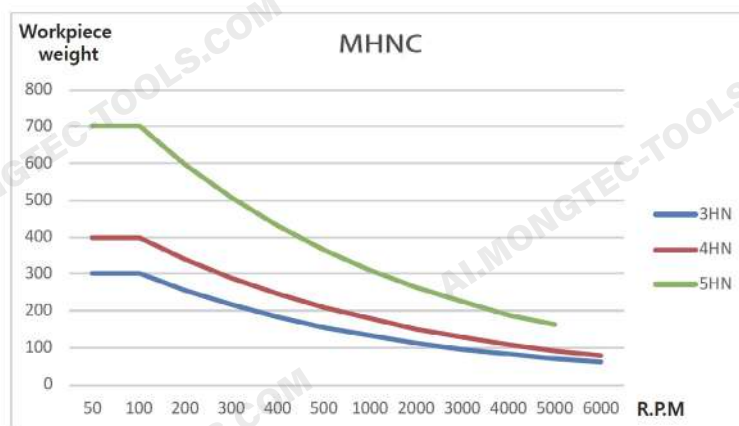


- Center axis point Carbide type
- Carbide hardness HRA 90~91

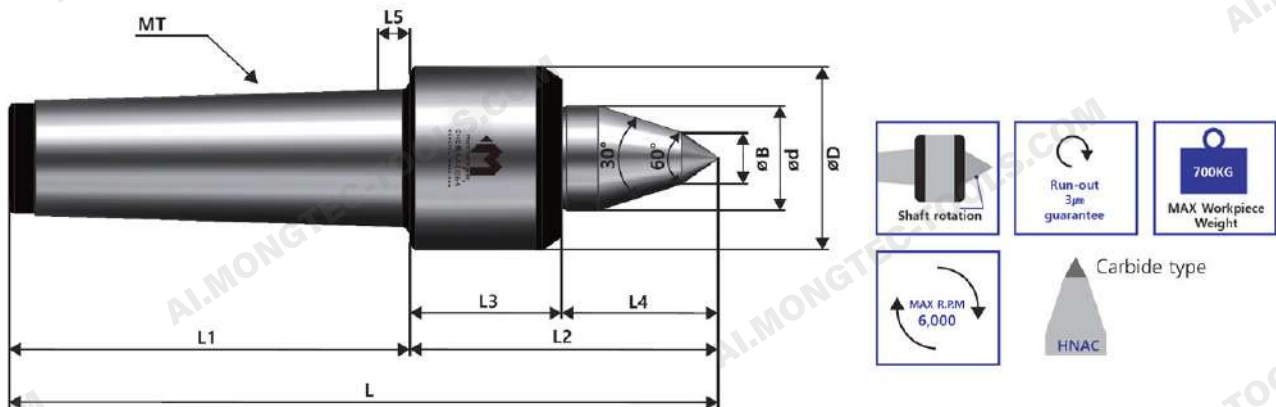
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
3103101	MT3	34	18	146.5	85	61.5	40.5	21	5.3	10	300	6,000	0.003
4103101	MT4	42	24	177	108	69	41	28	5.3	14	400	5,000	0.003
5103101	MT5	58	31.4	229.3	134.3	95	60	35	6.3	18	700	4,000	0.003

Maximum R.P.M based on Workpiece weight.



MHNA/MHNAC

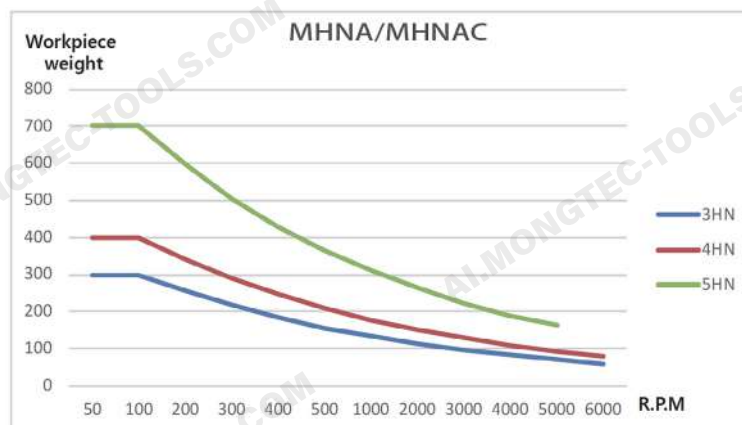


- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
3203101	MT3	34	18	152.5	85	67.5	40.5	27	5.3	10	300	6,000	0.003
4203101	MT	42	24	186	108	78	41	37	5.3	12	400	5,000	0.003
5203101	MT5	58	31.4	247.3	134.3	113	60	53	6.3	14	700	4,000	0.003
3303101	MT3	34	18	152.5	85	67.5	40.5	27	5.3	10	300	6,000	0.003
4303101	MT4	42	24	186	108	78	41	37	5.3	12	400	5,000	0.003
3503101	MT5	58	31.4	247.3	134.3	113	60	53	6.3	14	700	4,000	0.003

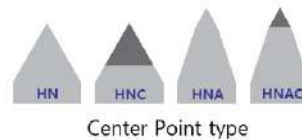
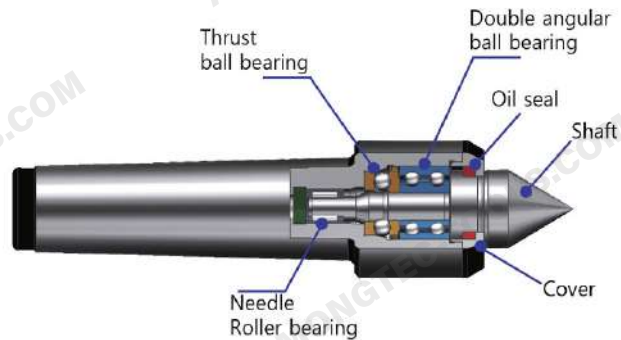
Maximum R.P.M based on Workpiece weight.



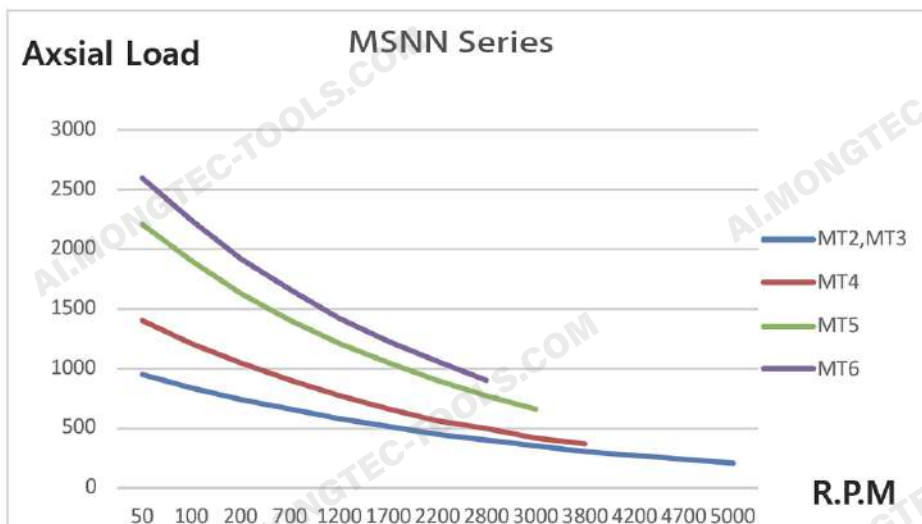
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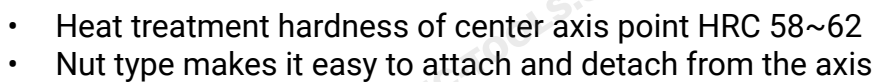
MSNN Series

Nut Attachment Standard Center



- Prevention the:enetration of cutting oil and extraneous bodies by using the special oil seal
- High degree of accuracy of rotation and high durability by using the triplexed bearing structure as high degree of precision
- Run out - Max 0.003mm



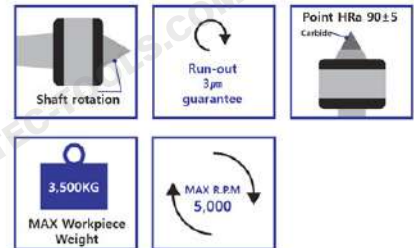


Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	ΦD1	Φd	L	L1	L2	L3	L4	L5	L6			
2601001	MT2	49	65	25	140	68	72	42	30	6	10	500	5,000	0.003
3601001	MT3	49	65	25	157	85	72	42	30	6	10	500	5,000	0.003
4601001	MT4	66	85	31.4	201	108	93	53	40	8	12	800	3,800	0.003
5601001	MT5	83	105	40	251	136	115	65	50	8	15	2,000	3,000	0.003
6601001	MT6	105	125	50	324	189	135	75	60	10	17	3,500	2,800	0.003

R.P.M	MT2, MT3	MT4	MT5	MT6
50	500	800	2000	3500
100	500	800	2000	3500
200	450	700	1800	3000
300	400	600	1500	2500
400	350	500	1200	2000
500	300	450	1000	1800
1000	200	350	800	1500
2000	100	250	700	-
2800	100	200	-	1500
3000	100	150	700	-
3800	100	300	-	-
5000	100	-	-	-

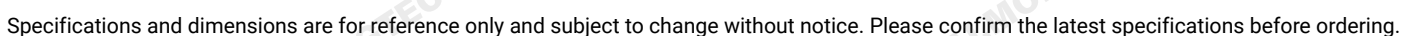
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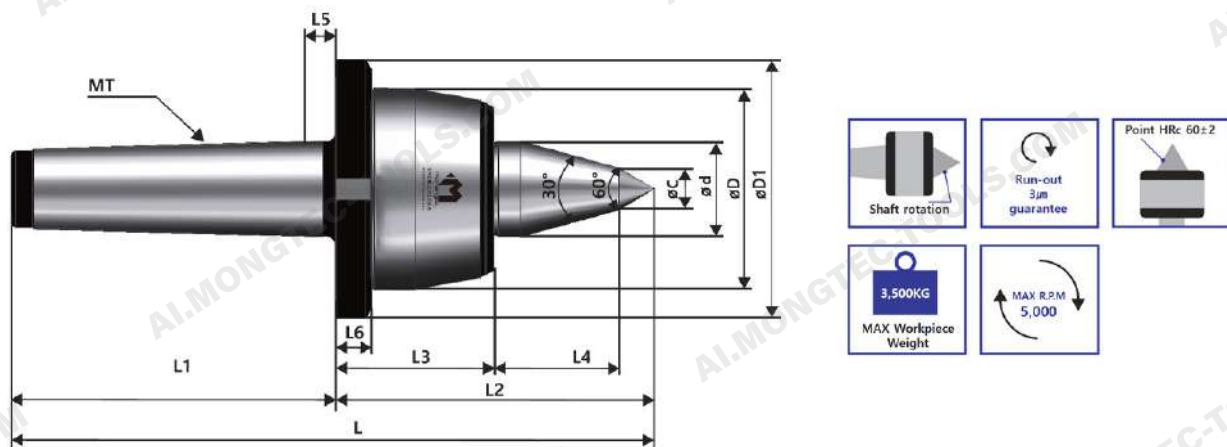
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- ## Dimension

Maximum R.P.M based on Workpiece weight.





- Nut type makes it easy to attach and detach from the axis
- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62

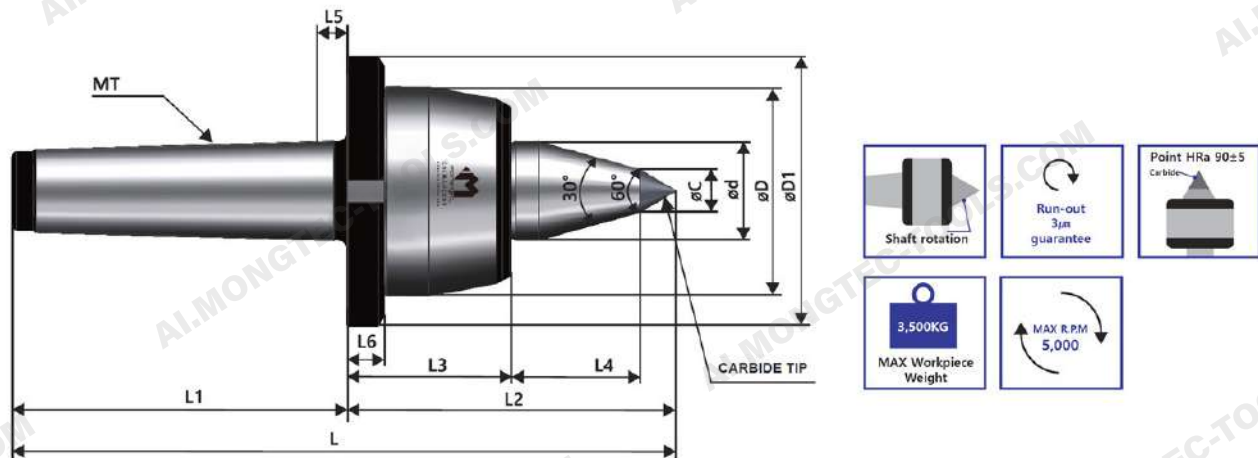
Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	ΦC			
2701001	MT2	49	65	25	68	72	42	30	6	10	10	500	5,000	0.003
3701001	MT3	49	65	25	85	72	42	30	6	10	10	500	5,000	0.003
4701001	MT4	66	85	31.4	108	93	53	40	8	12	14	800	3,800	0.003
5701001	MT5	83	105	40	136	115	65	50	8	15	18	2,000	3,000	0.003
6701001	MT6	105	125	50	189	135	75	60	10	17	30	3,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

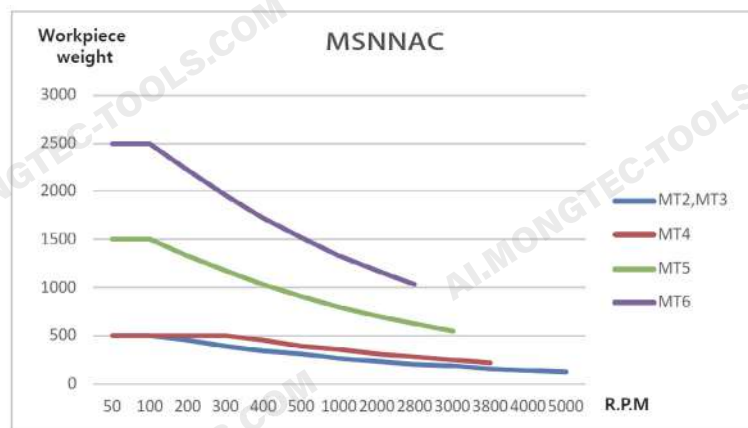


- Nut type makes it easy to attach and detach from the axis
- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

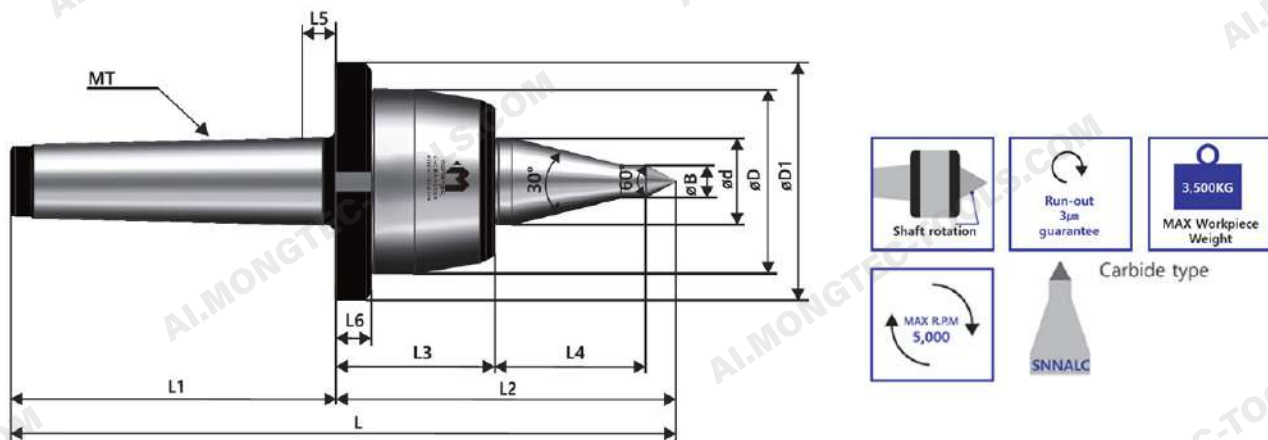
Model No	Morse Taper	Dimension											MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	ΦD1	Φd	L	L1	L2	L3	L4	L5	L6	ΦC			
2701001	MT2	49	65	25	140	68	72	442	30	6	10	10	500	5,000	0.003
3701001	MT3	49	65	25	157	85	72	42	30	6	10	10	500	5,000	0.003
4701001	MT4	66	85	31.4	201	108	93	53	40	8	12	14	800	3,800	0.003
5701001	MT5	83	105	40	251	136	115	65	50	8	15	18	2,000	3,000	0.003
6701001	MT6	105	125	50	324	189	135	75	60	10	17	30	3,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



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MSNNAL/MSNNALC

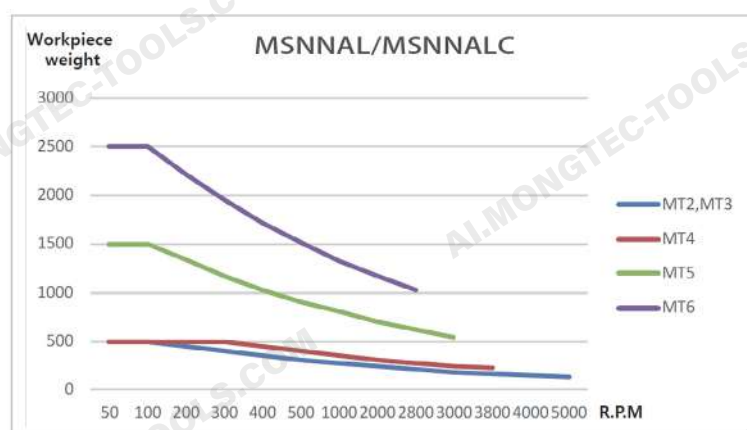


- Nut type makes it easy to attach and detach from the axis
- 3-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension											MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	ΦD1	Φd	L	L1	L2	L3	L4	L5	L6	ΦC			
2701001	MT2	49	65	25	140	68	72	42	30	6	10	10	500	5,000	0.003
3701001	MT3	49	65	25	157	85	72	42	30	6	10	10	500	5,000	0.003
4701001	MT4	66	85	31.4	201	108	93	53	40	8	12	14	800	3,800	0.003
5701001	MT5	83	105	40	251	136	115	65	50	8	15	18	2,000	3,000	0.003
6701001	MT6	105	125	50	324	189	135	75	60	10	17	30	3,500	2,800	0.003
2701001	MT2	49	65	25	140	68	72	42	30	6	10	10	500	5,000	0.003
3701001	MT3	49	65	25	157	85	72	42	30	6	10	10	500	5,000	0.003
4701001	MT4	66	85	31.4	201	108	93	53	40	8	12	14	800	3,800	0.003
5701001	MT5	83	105	40	251	136	115	65	50	8	15	18	2,000	3,000	0.003
6701001	MT6	105	125	50	324	189	135	75	60	10	17	30	3,500	2,800	0.003

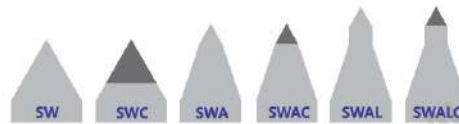
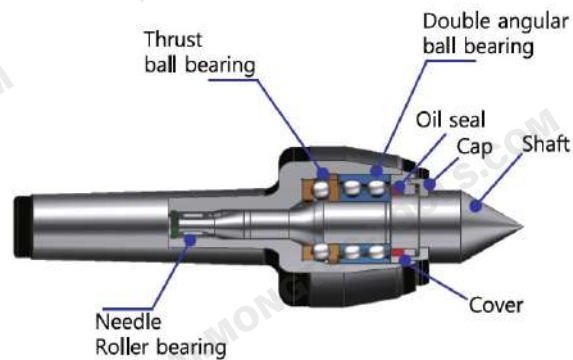
Maximum R.P.M based on Workpiece weight.



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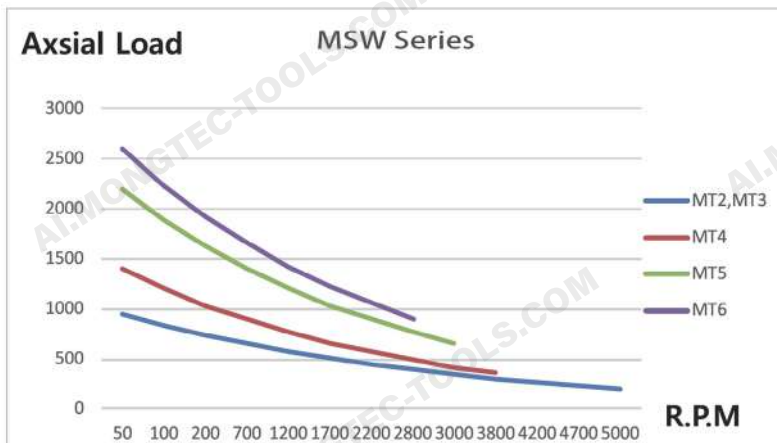
MSW Series

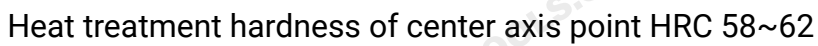
Premium Standard Rotating Center



Center Point type

- Add a contactless seal to prevent infiltration SPECIAL OIL SEAL to coolant and foreign matter
- High degree of accuracy of rotation and high durability by using the triplexed bearing structure as high degree of precision
- Run out - Max 0.003mm

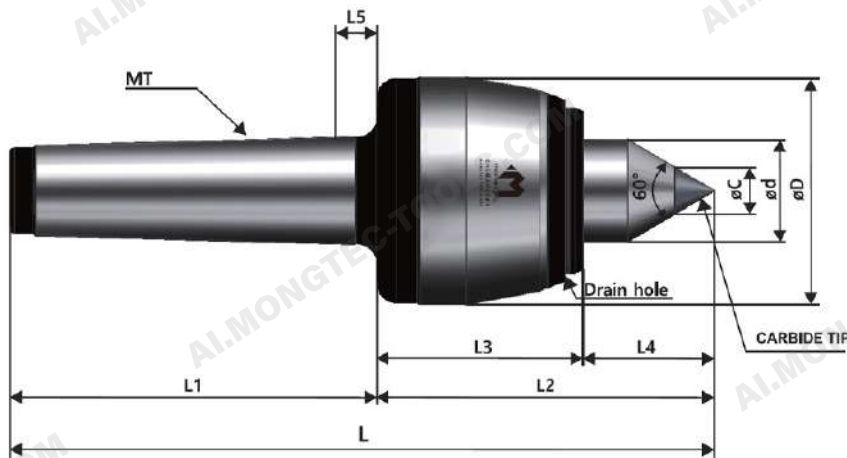




Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
3001101	MT3	49	24	165.5	85	80.5	51.5	29	6	500	5,000	0.003
4001101	MT4	66	30	207.5	108	99.5	61	38.5	8	800	3,800	0.003
5001101	MT5	83	39	259	136	123	73	50	8	2,000	3,000	0.003
6001101	MT6	105	49	330	189	141	81	60	10	3,500	2,800	0.003

R.P.M	MT2, MT3	MT4	MT5	MT6
50	500	800	2000	3500
100	500	800	2000	3500
200	450	700	1800	3000
300	400	600	1500	2500
400	350	500	1200	2000
500	300	450	1000	1700
1000	200	350	800	1400
2000	150	300	700	-
2800	100	250	-	-
3000	100	250	700	-
3800	100	250	-	-
4000	100	250	-	-
5000	100	250	-	-

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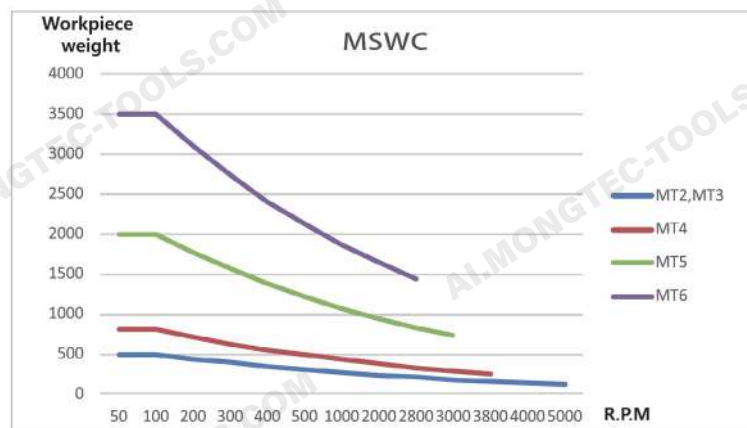


- Center axis point Carbide type
- Carbide hardness HRA 90~91

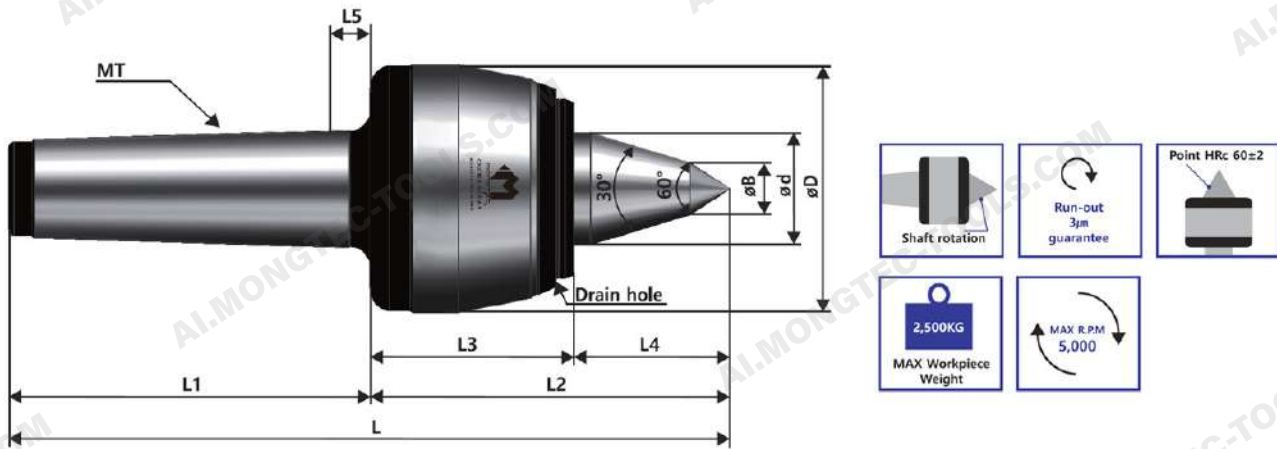
Dimension

Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
3101101	MT3	49	24	165.5	85	80.5	51.5	29	10	500	5,000	0.003
4101101	MT4	66	30	207.5	108	99.5	61	38.5	14	800	3,800	0.003
5101101	MT5	83	39	259	136	123	73	50	18	2,000	3,000	0.003
6101101	MT6	105	49	330	189	141	81	60	30	3,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



MNSR

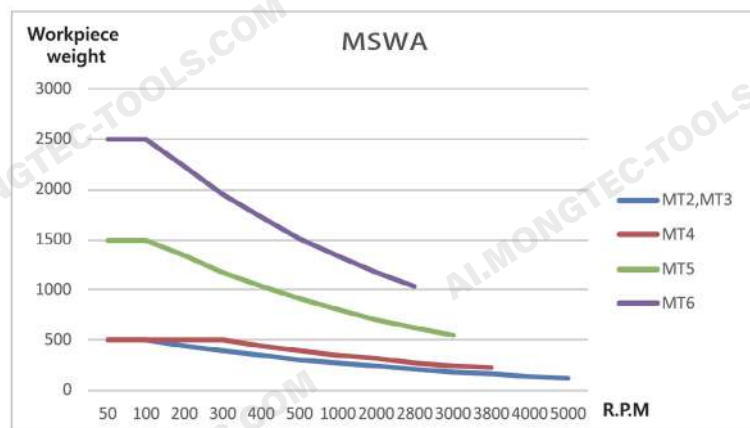


- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRA 58~62

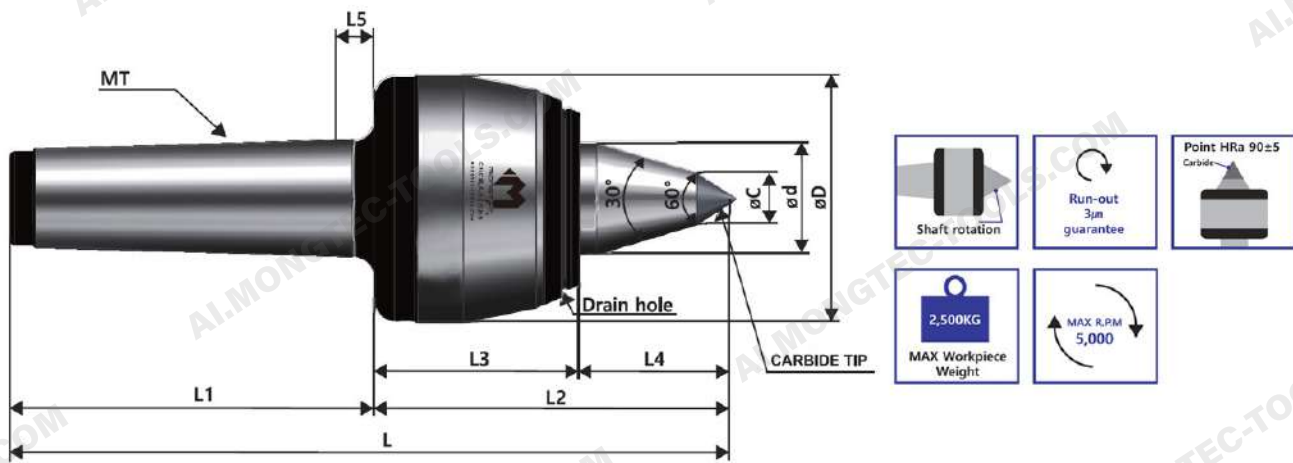
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
3201101	MT3	49	24	176.5	85	91.5	51.5	40	6	10	300	5,000	0.003
4201101	MT4	66	30	215.5	108	107.5	61	46.5	8	14	500	3,800	0.003
5201101	MT5	83	39	267.3	136	131.3	73	58.3	8	18	1,500	3,000	0.003
6201101	MT6	105	49	348	189	159	81	78	10	18	2,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



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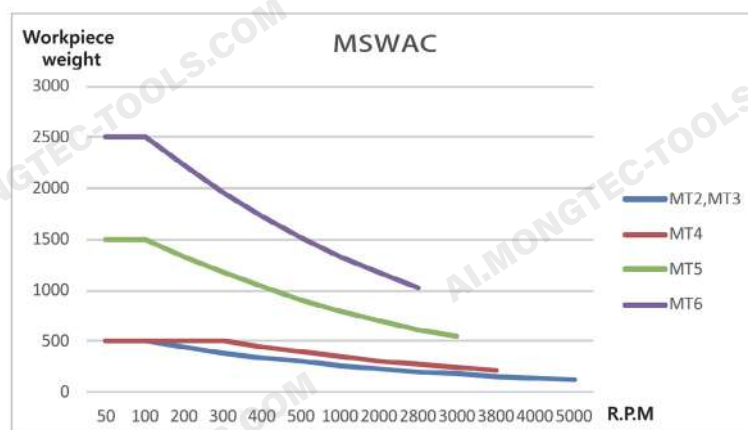


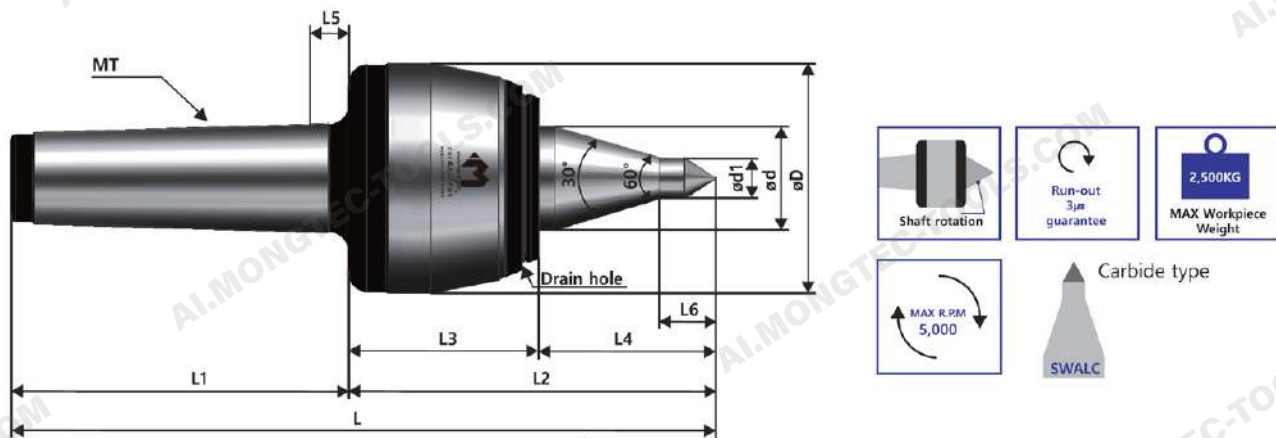
- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
3301101	MT3	49	24	176.5	85	91.5	51.5	40	6	10	300	5,000	0.003
4301101	MT4	66	30	215.5	108	107.5	61	46.5	8	14	500	3,800	0.003
5301101	MT5	83	39	267.3	136	131.3	73	58.3	8	18	1,500	3,000	0.003
6301101	MT6	105	49	348	189	159	81	78	10	18	2,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



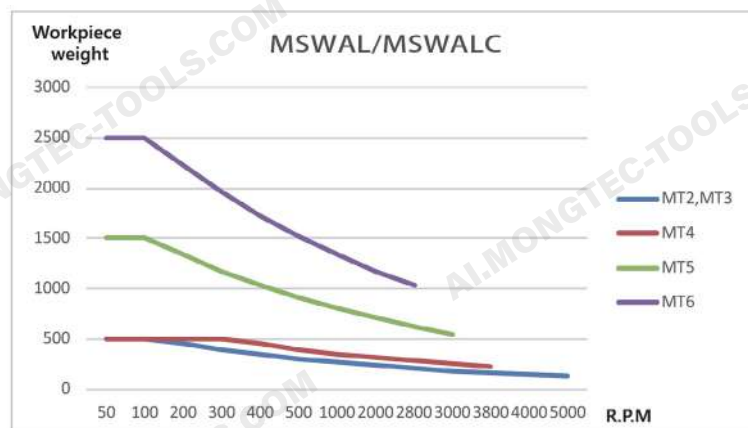


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	Φd1			
5401101	MT3	49	24	184.6	85	99.6	51.5	48.1	6	19	10	300	5,000	0.003
4401101	MT4	66	30	225.5	108	117.5	61	56.5	8	18	12	300	3,800	0.003
4501101	MT5	83	29	279.2	136	143.2	73	70.2	8	19.5	14	1,500	3,000	0.003
6401101	MT6	105	49	370	189	181	81	100	10	30	14	2,500	2,800	0.003
3501101	MT3	49	24	184.6	85	99.6	51.5	48.1	6	19	10	300	5,000	0.003
4501101	MT4	66	30	225.5	108	117.5	61	56.5	8	18	12	500	3,800	0.003
5501101	MT5	83	39	279.2	136	143.2	73	70.2	8	19.5	14	1,500	3,000	0.003
6501101	MT6	105	49	370	189	181	81	100	10	30	14	2,500	2,800	0.003

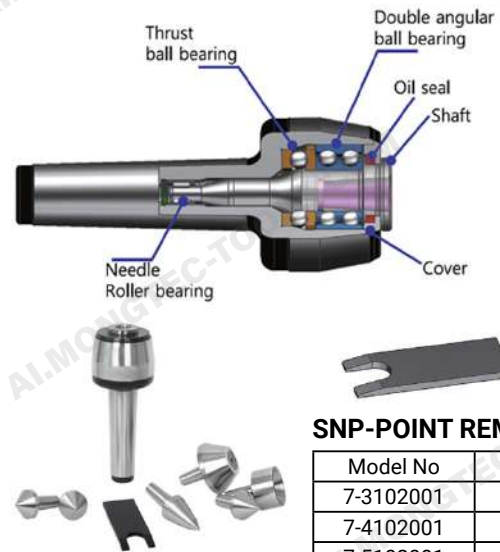
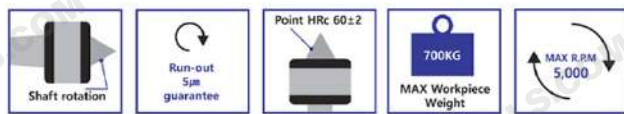
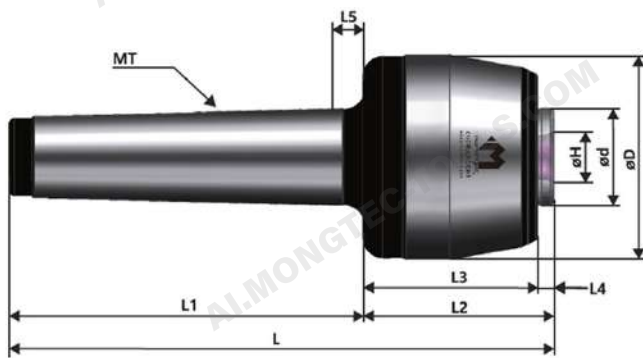
Maximum R.P.M based on Workpiece weight.



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MSNP Series

Center point change rotation center MSNP BODY



SNP-POINT REMOVER

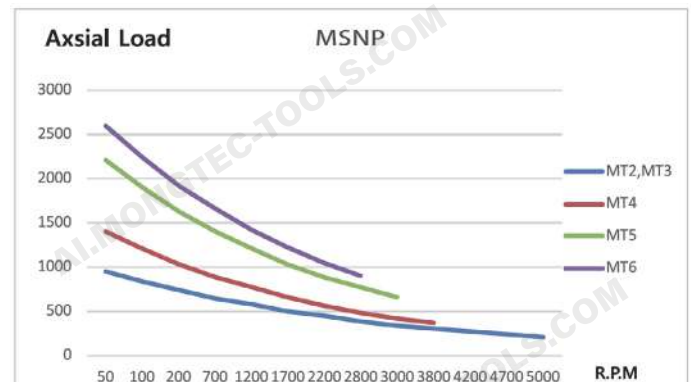
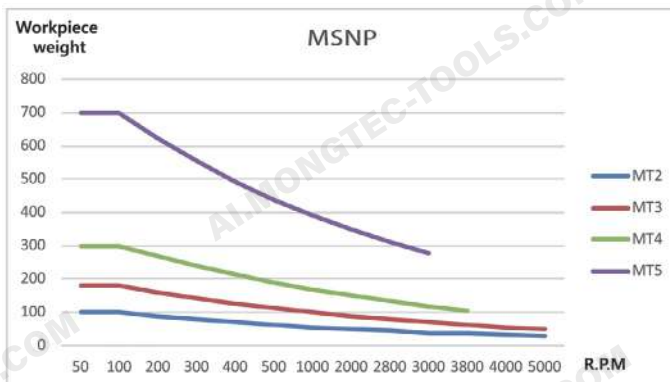
Model No	TYPE
7-3102001	2.3SNP JIG
7-4102001	4SNP JIG
7-5102001	5SNP JIP

- Use by changing the center axis point
- Heat treatment hardness of center shaft HRA 58~62
- RUN OUT within 0.005mm when changing center axis point

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦH			
2102001	MT2	49	25	115	68	47	42	5	6	12	100	5,000	0.003
3102001	MT3	49	25	132	85	47	42	5	6	12	180	5,000	0.003
4102001	MT4	66	31.4	166	108	58	53	5	8	15	300	3,800	0.003
5102001	MT5	83	40	207.5	136	71.5	65	6.2	8	22	700	3,000	0.003

Maximum R.P.M based on Workpiece weight.



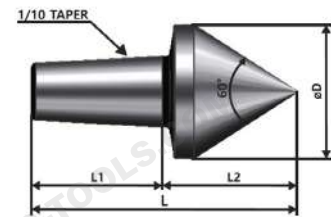
Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MSNP-SPOINT

Dimension

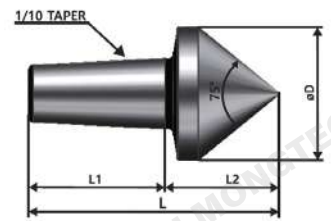
MSNP-SPOINT 60

Model No	Morse Taper	Dimension				
		ΦD	Φd	L	L1	L2
1-2102001	MT2	20	12	48	24	24
1-3102001	MT3	20	12	48	24	24
1-4102001	MT4	28	15	61.5	30	31.5
1-5102001	MT5	38	22	78	35	43



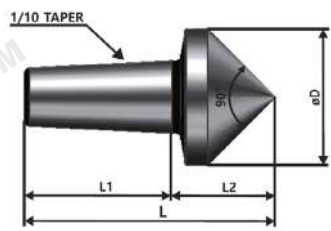
MSNP-SPOINT 75

Model No	Morse Taper	Dimension				
		ΦD	Φd	L	L1	L2
2-2102001	MT2	20	12	43.8	24	19.8
2-3102001	MT3	20	12	43.8	24	19.8
4-4102001	MT4	28	15	55.6	30	25.9
2-5102001	MT5	38	22	78	35	35



MSNP-SPOINT 90

Model No	Morse Taper	Dimension				
		ΦD	Φd	L	L1	L2
3-2102001	MT2	20	12	40.9	24	16.9
3-3102001	MT3	20	12	40.9	24	16.9
4-4102001	MT4	28	15	51.5	30	21.5
5-5102001	MT5	38	22	64.3	35	29.3



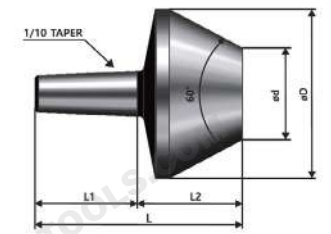
MSNP-SPOINT A30

Model No	Morse Taper	Dimension					
		ΦD	ΦG	L	L1	L2	Φd
4-2102001	MT2	18	12	54	24	30	10
4-3102001	MT3	18	12	54	24	30	10
4-4102001	MT4	26	15	73	30	43	12
4-5102001	MT5	32	32	90	35	55	14



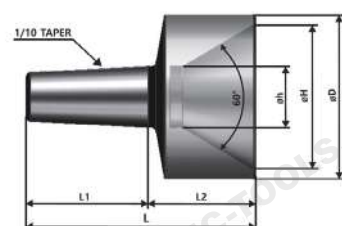
MSNP-SPOINT B60

Model No	Morse Taper	Dimension					
		ΦD	ΦG	L	L1	L2	Φd
5-2102001	MT2	45	12	51	24	27	25
5-3102001	MT3	45	12	51	24	27	25
5-4102001	MT4	55	15	61.5	30	31.5	30
5-5102001	MT5	70	22	73	35	38	40



MSNP-SPOINT H60

Model No	Morse Taper	Dimension						
		ΦD	ΦG	L	L1	L2	ΦH	Φh
6-2102001	MT2	22	12	40	24	16	18	6
6-3102001	MT3	22	12	40	24	16	18	6
6-4102001	MT4	40	15	57	30	27	36	15
6-5102001	MT5	50	22	65	35	30	47	25

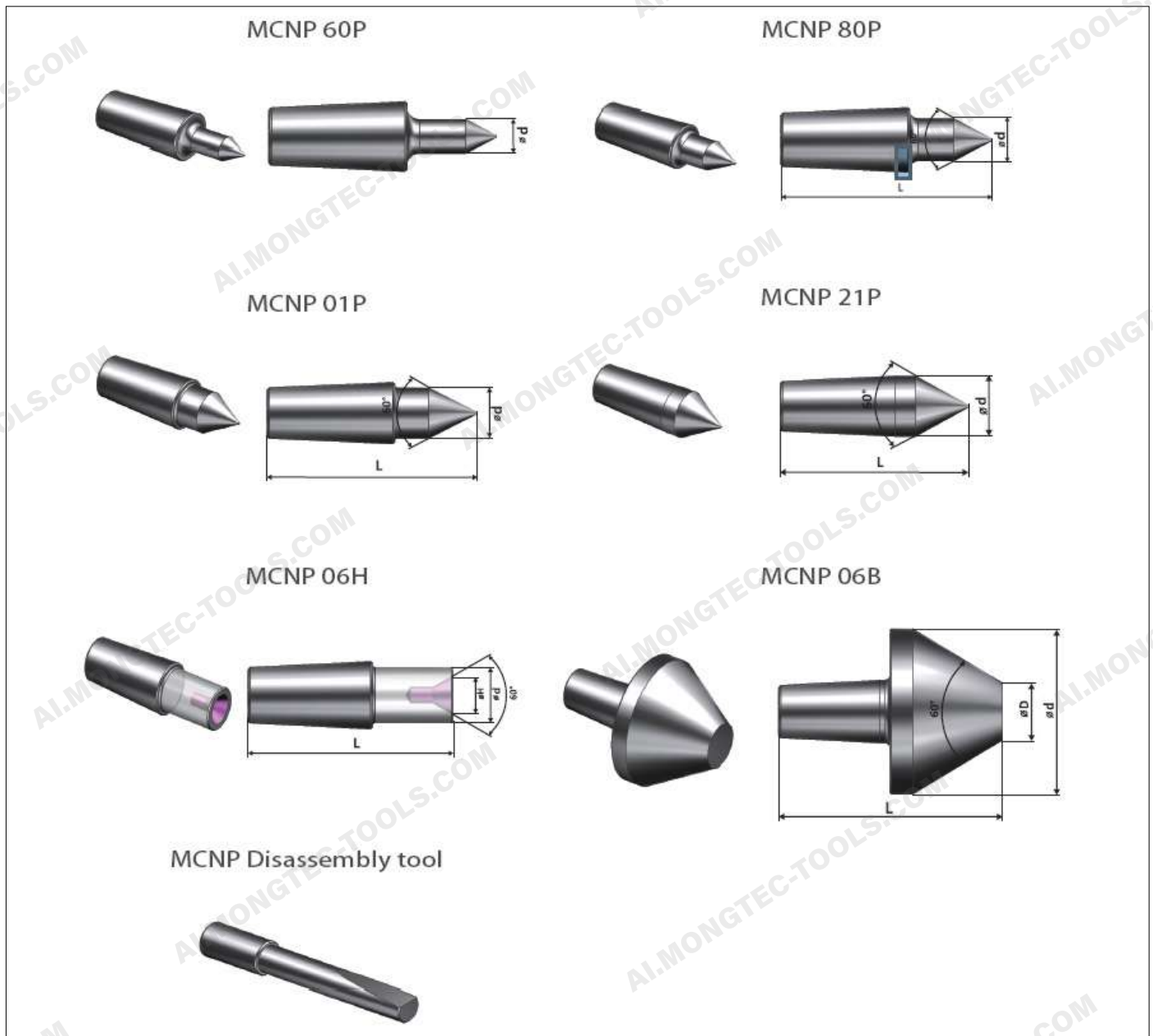


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MCNP-POINT

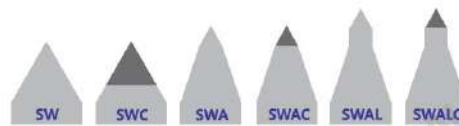
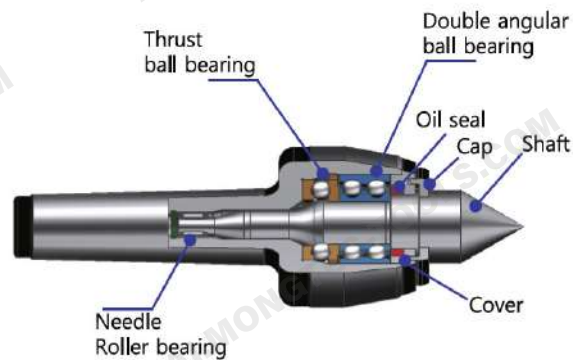
Dimension

Model No	Morse Taper	Dimension			
		Φd	ΦD	L	H
MCNP 60P	1:10	6	12.2	40	-
MCNP 80P	1:10	8	12.2	36	-
MCNP 01P	1:10	10	12.2	36	-
MCNP 21P	1:10	12	12.2	36	-
MCNP 06H	1:10	10	12.2	36	7
MCNP B06B	1:10	11	31.4	44.1	-



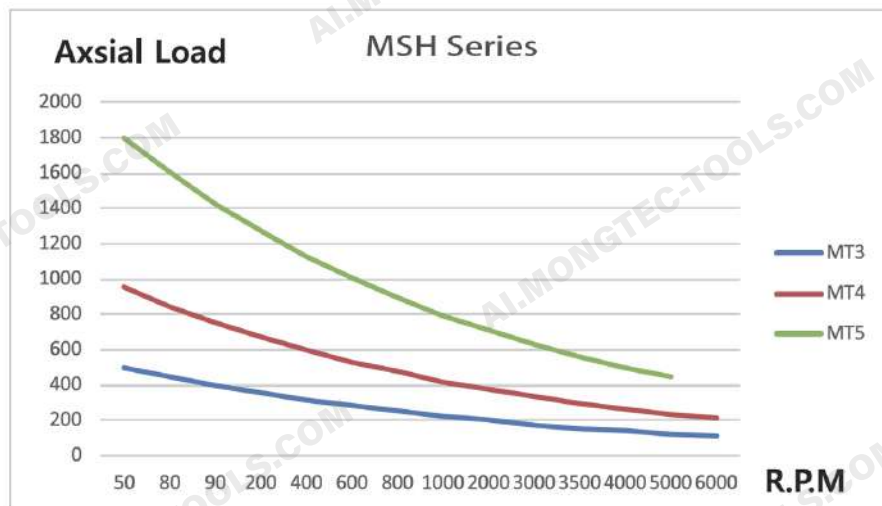
MSH Series

General for high-speed rotation

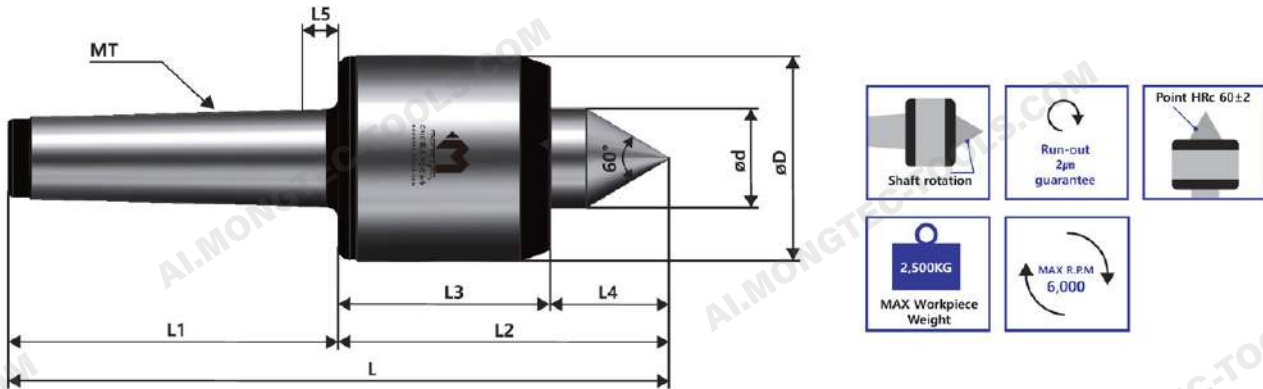


Center Point type

- Use high speed bearing and special oil seal
- Easy to work at high speed
- Run out - Max 0.002mm



MSH



Heat treatment hardness of center axis point HRC 58~62

Dimension

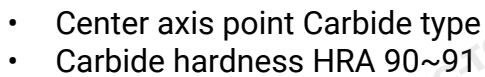
Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
3003201	MT3	49	25	167.4	85	82.4	54.4	28	4.5	750	6,000	0.002
4003201	MT4	66	32	216.6	108	108.6	69.6	39	5.3	1,400	6,000	0.002
5003201	MT5	82	40	258.8	136	122.8	79.8	43	6.3	2,500	5,000	0.002

Maximum R.P.M based on Workpiece weight.



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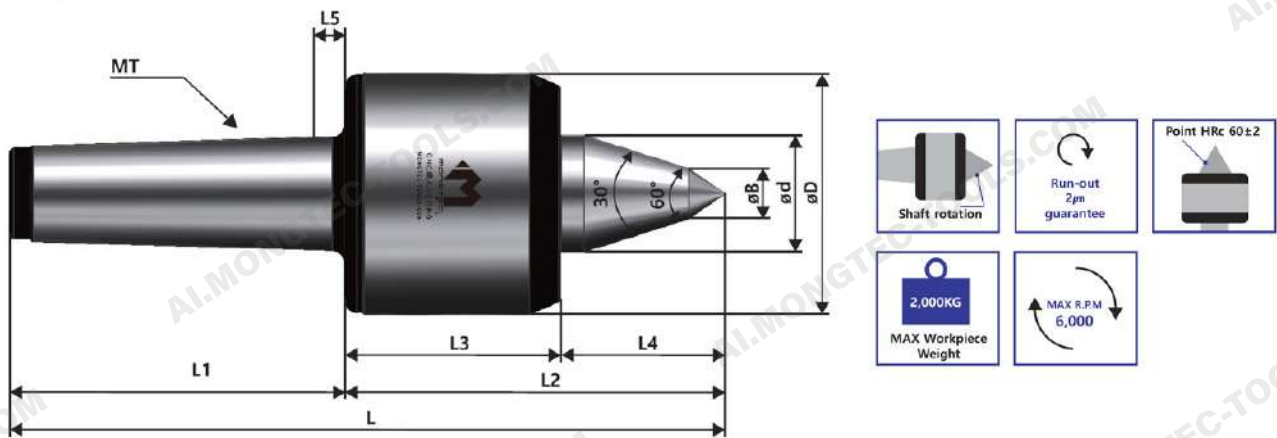


Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
3103201	MT3	49	25	167.4	85	82.4	54.4	28	4.5	10	750	6,000	0.002
4103201	MT4	66	32	216.6	108	108.6	69.6	39	5.3	14	1,400	6,000	0.002
5103201	MT5	82	40	258.8	136	122.8	79.8	43	6.3	18	2,500	5,000	0.002

MSHC

R.P.M	MT3 (Workpiece weight)	MT4 (Workpiece weight)	MT5 (Workpiece weight)
50	750	1400	2500
80	750	1400	2500
90	650	1400	2500
200	550	1100	2000
400	450	900	1500
600	400	800	1300
800	350	700	1100
1000	300	600	1000
2000	200	450	800
3000	150	350	650
4000	100	250	550
5000	50	200	500
6000	20	150	450

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- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62

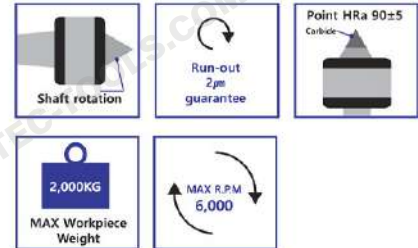
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
3203201	MT3	49	25	177.4	85	92.4	54.4	38	4.5	12	600	6,000	0.002
4203201	MT4	66	32	230.6	108	122.6	69.6	53	5.3	14	1,100	6,000	0.002
5203201	MT5	82	40	279	136	143	79.8	63.2	6.3	16	2,000	5,000	0.002

Maximum R.P.M based on Workpiece weight.



MSHAC

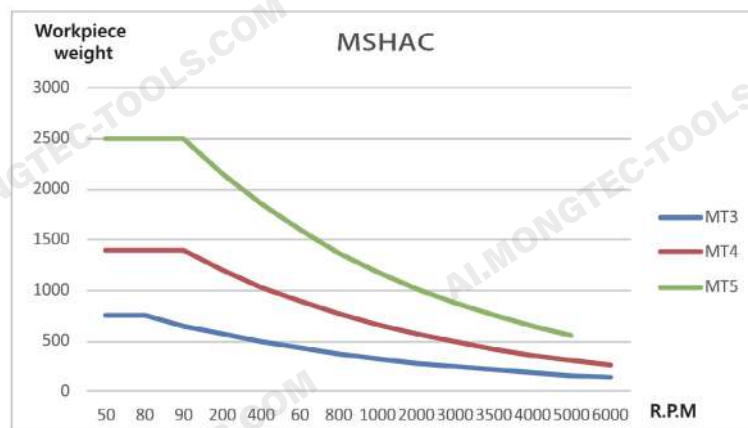


- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

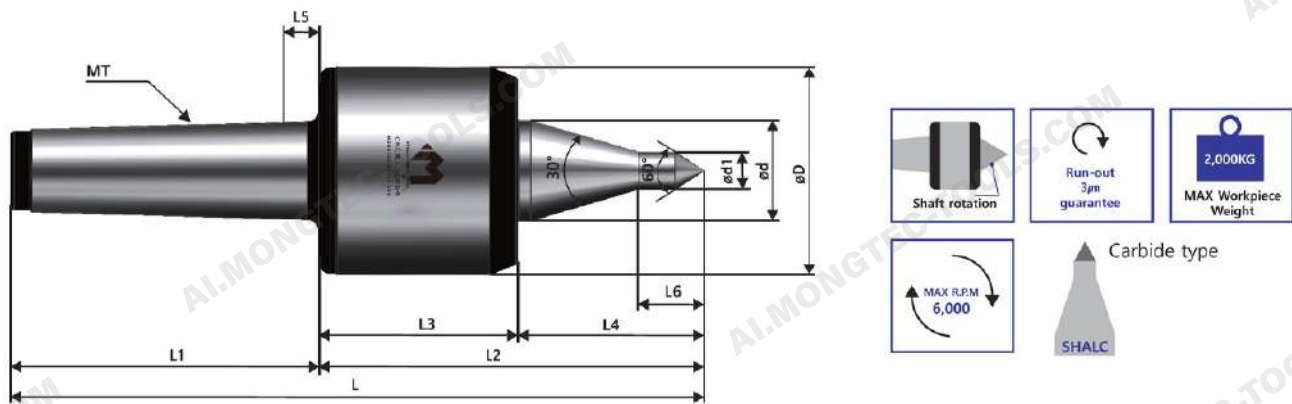
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦD			
3303201	MT3	49	25	177.4	85	92.4	54.4	38	4.5	12	600	6,000	0.002
4303201	MT4	66	32	230.6	108	122.6	69.6	53	5.3	14	1,100	6,000	0.002
5303201	MT5	82	40	279	136	143	79.8	63.2	6.3	16	2,000	5,000	0.002

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

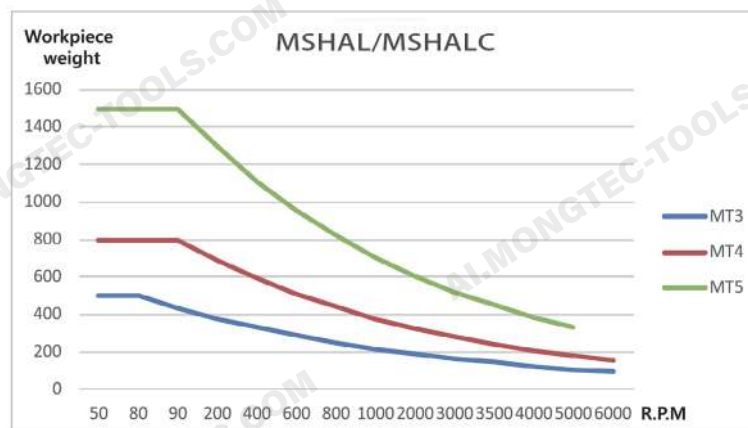


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	Φd1			
3403201	MT3	49	25	184.4	85	99.4	54.4	45	4.5	15	10	600	6,000	0.002
4403201	MT4	66	32	242.6	108	134.3	69.6	65	5.3	23	12	1,100	6,000	0.002
5403201	MT5	82	40	296.5	136	106.5	79.8	80.7	6.3	24	12	2,000	5,000	0.002
3503201	MT3	49	25	187.4	85	99.4	54.4	45	4.5	15	10	600	6,000	0.002
4503201	MT4	66	32	242.6	108	134.6	69.6	65	5.3	23	12	1,100	6,000	0.002
440210	MT5	82	40	296.5	136	106.5	79.8	80.7	6.3	24	12	2,000	5,000	0.002

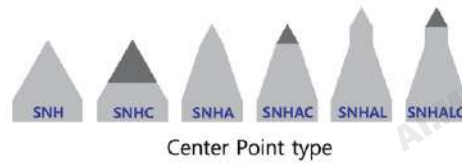
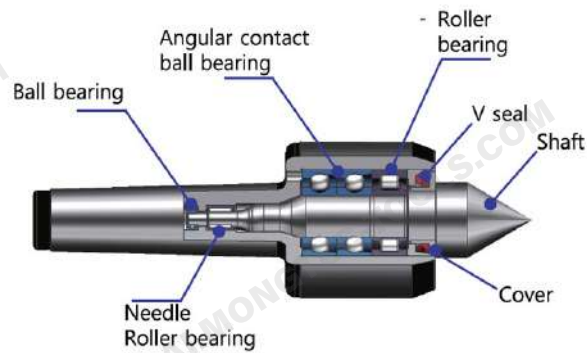
Maximum R.P.M based on Workpiece weight.



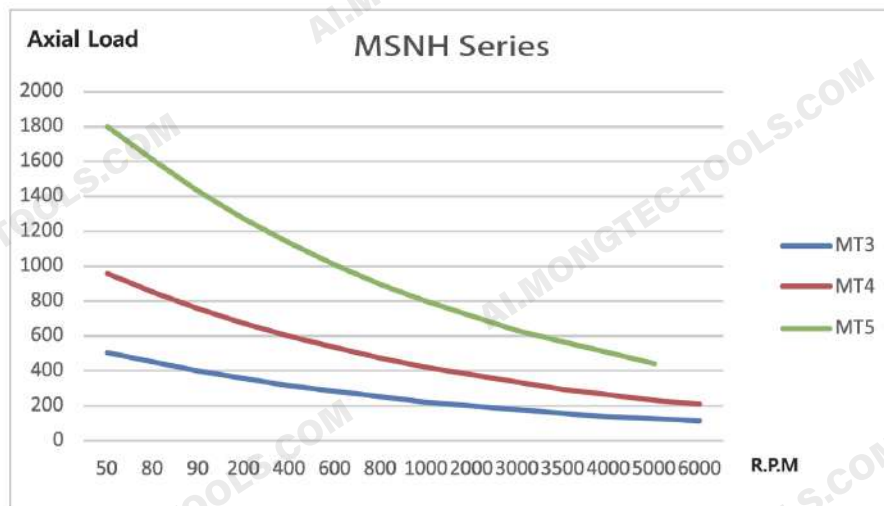
Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MSNH Series

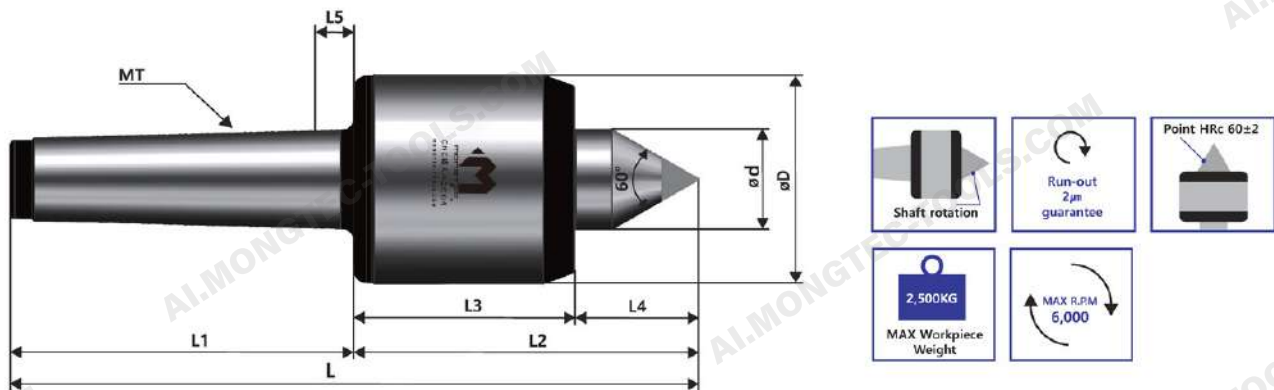
High-speed Premium



- Use high speed bearing and special oil seal
- Easy to work at high speed
- Run out - Max 0.002mm



MSNH



Heat treatment hardness of center axis point HRC 58~62

Dimension

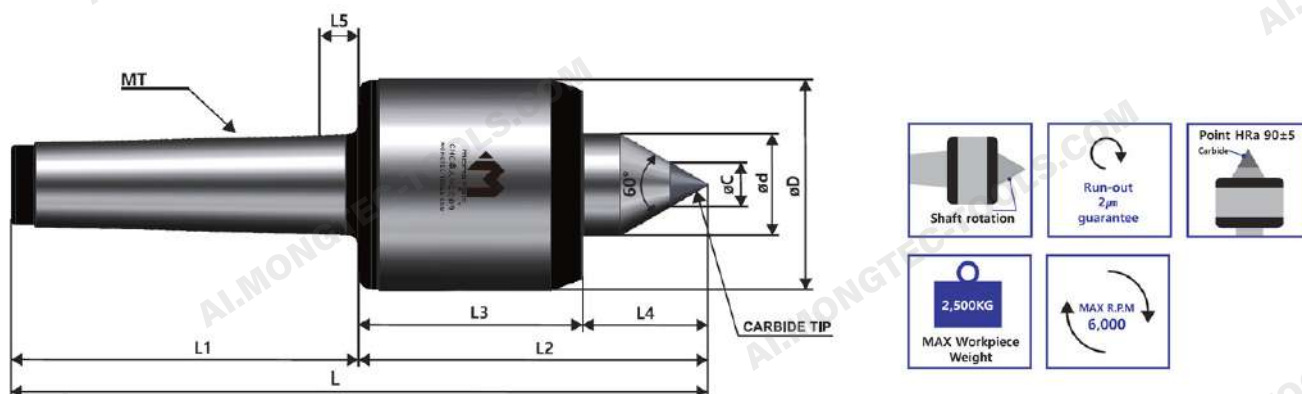
Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ϕD	ϕd	L	L1	L2	L3	L4	L5			
3003001	MT3	49	25	162.5	85	77.5	49.5	28	4.5	750	6,000	0.002
4003001	MT4	66	32	213	108	105	64	41	5.3	1,500	6,000	0.002
5003001	MT5	82	40	251	136	115	72	43	6.3	2,500	5,000	0.002

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MSNHC

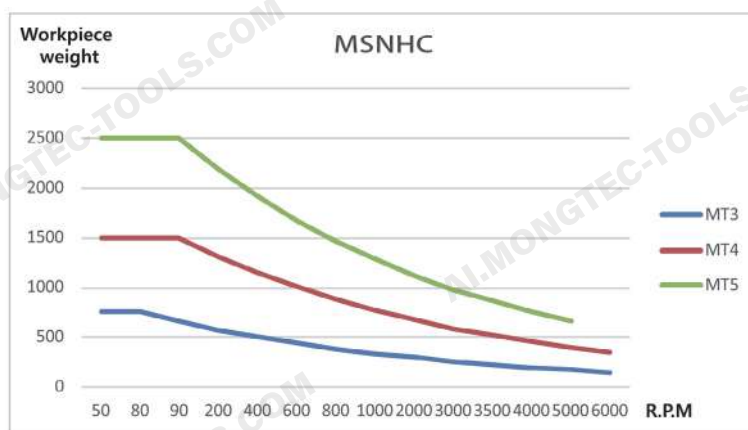


- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
3103001	MT3	49	25	162.5	85	77.5	49.5	28	4.5	10	750	6,000	0.002
4103001	MT4	66	32	213	108	105	64	41	5.3	14	1,500	6,000	0.002
5103001	MT5	82	40	251	136	115	72	43	6.3	18	2,500	5,000	0.002

Maximum R.P.M based on Workpiece weight.



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MSNHA



- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62

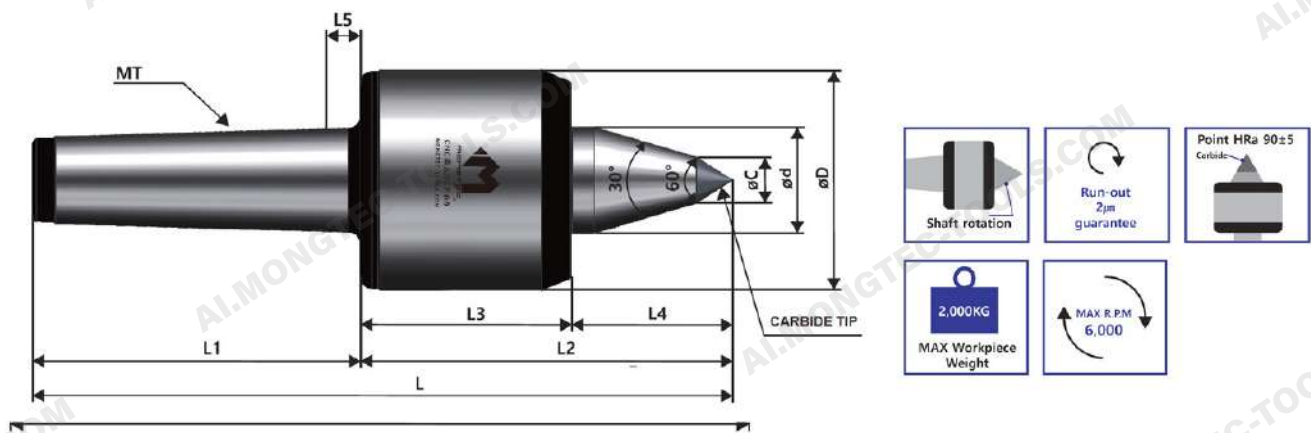
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
3203001	MT3	49	25	172.5	85	87.5	49.5	38	4.5	12	600	6,000	0.002
4203001	MT4	66	32	225	108	117	64	53	5.3	14	1,100	6,000	0.002
5203001	MT5	82	40	273	136	137	72	65	6.3	16	2,000	5,000	0.002

Maximum R.P.M based on Workpiece weight.



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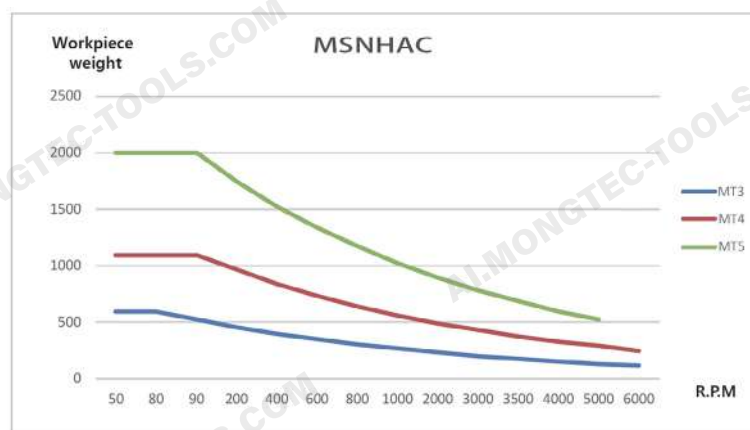


- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

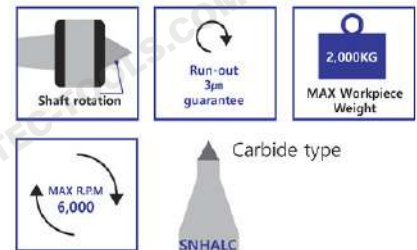
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
3303001	MT3	49	25	172.5	85	87.5	49.5	38	4.5	12	600	6,000	0.002
4303001	MT4	66	32	225	108	117	64	53	5.3	14	1,100	6,000	0.002
5303001	MT5	82	40	273	136	137	72	65	6.3	16	2,000	5,000	0.002

Maximum R.P.M based on Workpiece weight.



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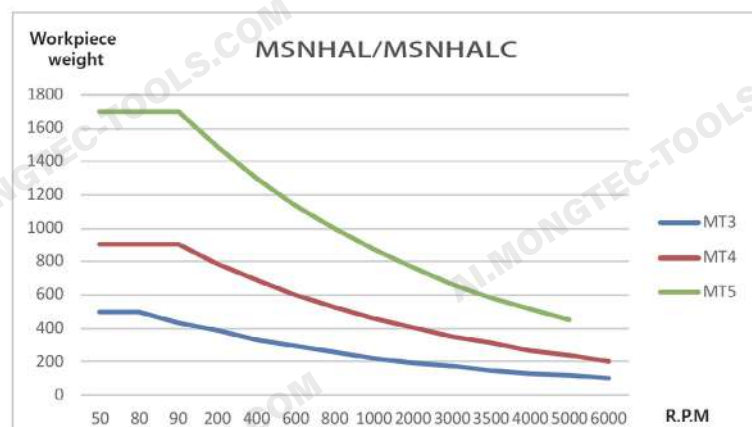


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	Φd1			
3403001	MT3	49	25	183.5	85	98.5	49.5	49	4.5	19	10	500	6,000	0.002
4403001	MT4	66	32	235	108	127	64	63	5.3	23	12	900	6,000	0.002
5403001	MT5	82	40	288	136	152	72	80	6.3	23	12	1,700	5,000	0.002
3503001	MT3	49	25	183.5	85	98.5	49.5	49	4.5	19	10	500	6,000	0.002
4503001	MT4	66	32	235	108	127	64	63	5.3	23	12	900	6,000	0.002
5503001	MT5	82	40	288	136	152	72	80	6.3	23	12	1,700	5,000	0.002

Maximum R.P.M based on Workpiece weight.



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MSSH Series

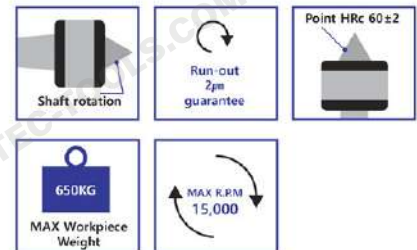
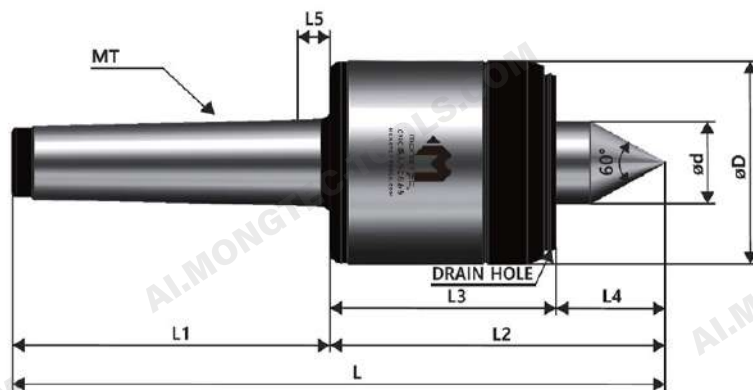
Ultra High-speed



- High-speed precision bearing structure
- Using the non-contact oil seal to prevent heat-resistant, coolant and foreign matter ingress
- It facilitates high-speed precision work.
- Run out - Max 0.002mm



MSSH



Heat treatment hardness of center axis point HRC 58~62

Dimension

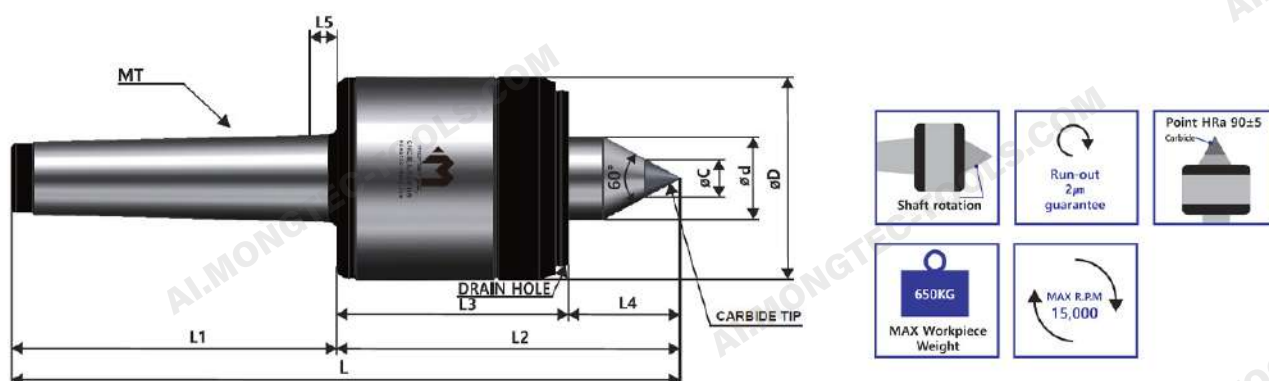
Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
2002101	MT2	49	20	149	68	81	55.5	25.5	4.5	350	15,000	0.002
3002101	MT3	49	20	166	85	81	55.5	25.5	4.5	350	15,000	0.002
4002101	MT4	73	30	222	108	114	77	37	6	650	12,000	0.002
5002101	MT5	73	30	250	136	114	77	37	6	650	12,000	0.002

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MSSHHC



- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

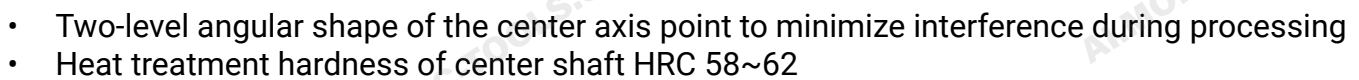
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
2102101	MT2	49	20	149	68	81	55.5	25.5	4.5	10	350	15,000	0.002
3102101	MT3	49	20	166	85	81	55.5	25.5	4.5	10	350	15,000	0.002
4102101	MT4	73	30	222	108	114	77	37	6	14	650	12,000	0.002
5102101	MT5	73	30	250	136	114	77	37	6	18	650	12,000	0.002

Maximum R.P.M based on Workpiece weight.



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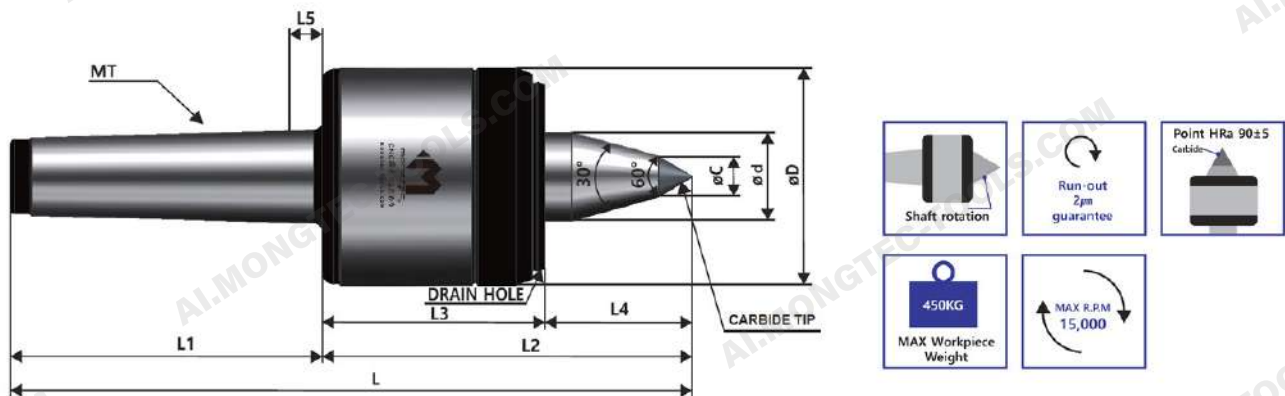
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
2202101	MT2	49	20	155.5	68	87.5	55.5	32	4.5	10	280	15,000	0.002
3202101	MT3	49	20	172.5	85	87.5	55.5	32	4.5	10	280	15,000	0.002
4202101	MT4	73	30	236	108	128	77	51	6	14	450	12,000	0.002
5202101	MT5	73	30	264	136	128	77	51	6	16	450	12,000	0.002

MSSHA

R.P.M	MT2, MT3 (Workpiece weight)	MT4, MT5 (Workpiece weight)
1	280	450
2	280	450
3	280	450
4	280	450
5	240	380
6	200	320
7	170	270
8	140	230
9	120	200
10	100	170
11	90	150
12	80	130
13	70	110
14	60	90

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MSSHAC

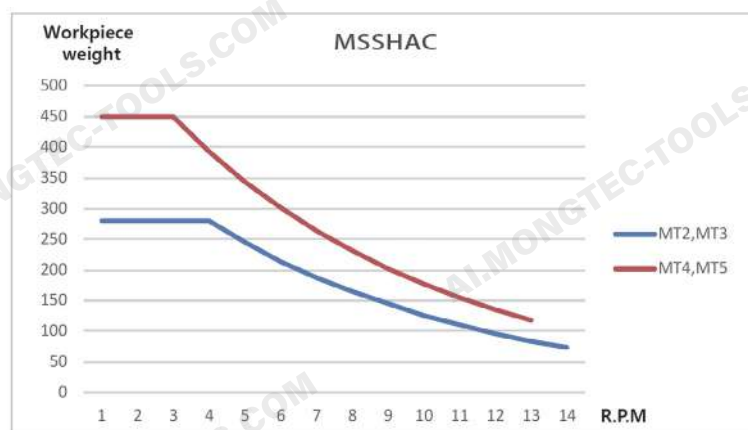


- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

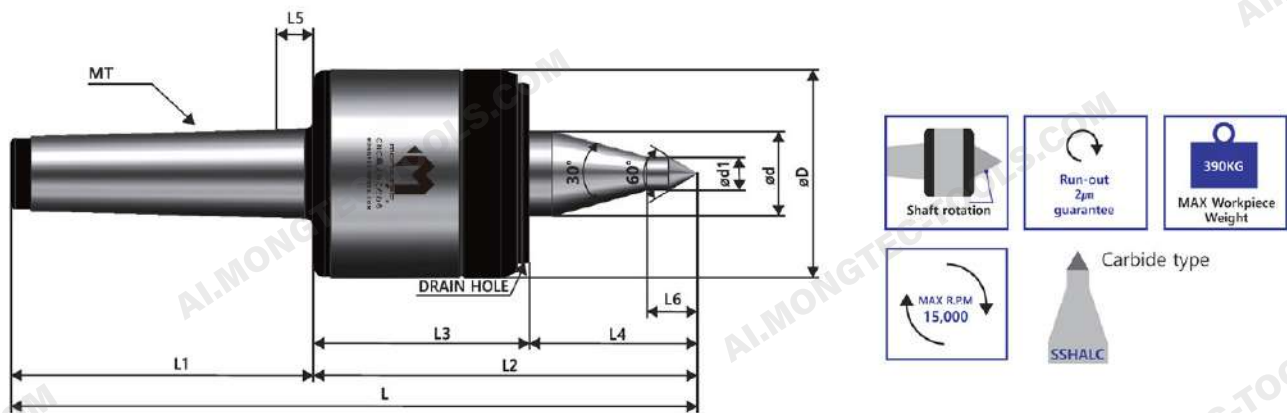
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ϕD	ϕd	L	L1	L2	L3	L4	L5	ϕC			
2302101	MT2	49	20	155.5	68	87.5	55.5	32	4.5	10	280	15,000	0.002
3302101	MT3	49	20	172.5	85	87.5	55.5	32	4.5	10	280	15,000	0.002
4302101	MT4	73	30	2236	108	128	77	51	6	14	450	12,000	0.002
5302101	MT5	73	30	264	136	128	77	51	6	16	450	12,000	0.002

Maximum R.P.M based on Workpiece weight.



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MSSHAL/MSSHLAC

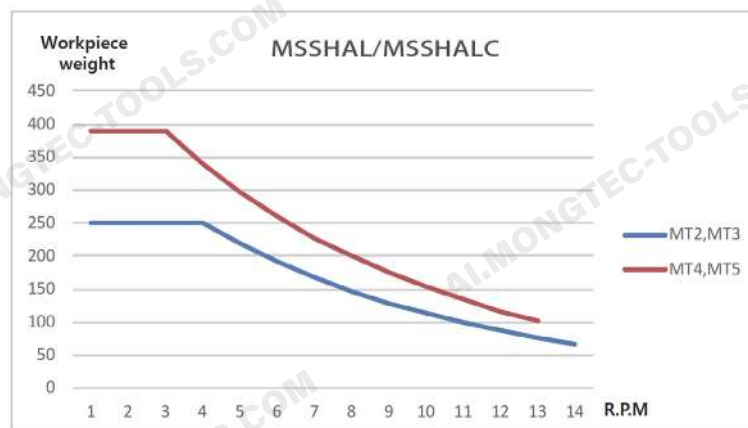


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	Φd1			
2402101	MT2	49	20	116.5	68	98.5	55.5	43	4.5	19	10	250	15,000	0.002
3402101	MT3	49	20	183.5	85	98.5	55.5	43	4.5	19	10	250	15,000	0.002
4402101	MT4	73	30	246.5	108	138.5	77	61.5	6	23.5	12.5	390	12,000	0.002
5402101	MT5	73	30	274.5	136	138.5	77	61.5	6	23.5	12.5	390	12,000	0.002
2502101	MT2	49	20	166.5	68	98.5	55.5	43	4.5	19	10	250	15,000	0.002
3502101	MT3	49	20	183.5	85	98.5	55.5	43	4.5	19	10	250	15,000	0.002
4502101	MT4	73	30	246.5	108	138.5	77	61.5	6	23.5	12.5	390	12,000	0.002
5502101	MT5	73	30	274.5	136	138.5	77	61.5	6	23.5	12.5	390	12,000	0.002

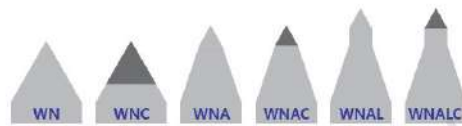
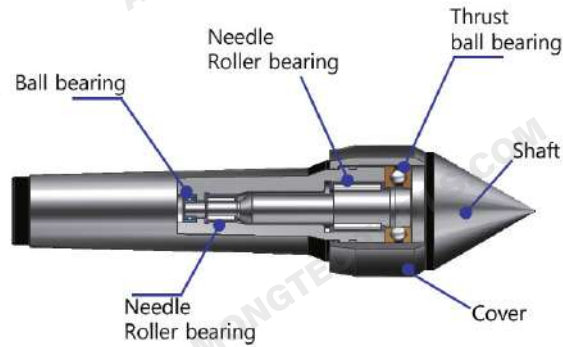
Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MWN Series

Slim head waterproof type

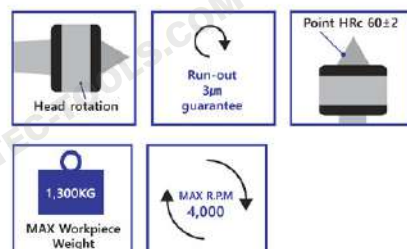
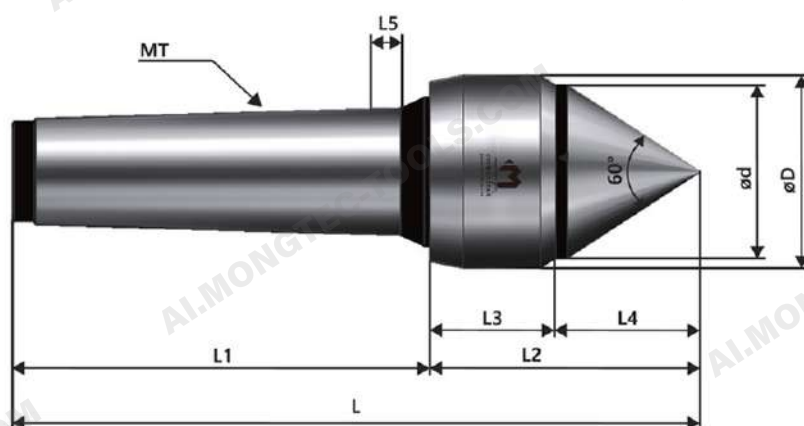


Center Point type

- HEAD rotation type
- Minimized the body for reducing the bite-interference
- RUN OUT - Max 0.003mm



If physical force is applied to this part, the product may be damaged.

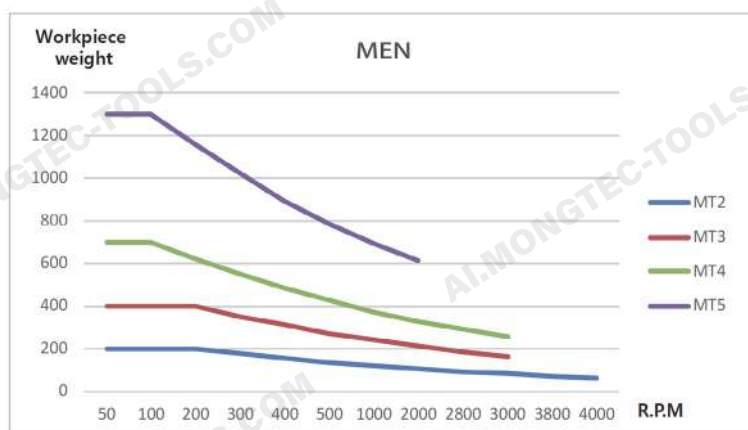


Heat treatment hardness of center axis point HRC 58~62

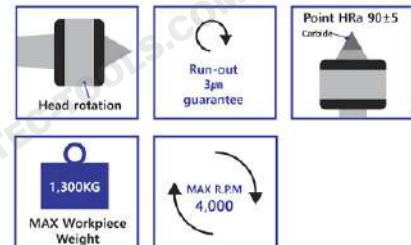
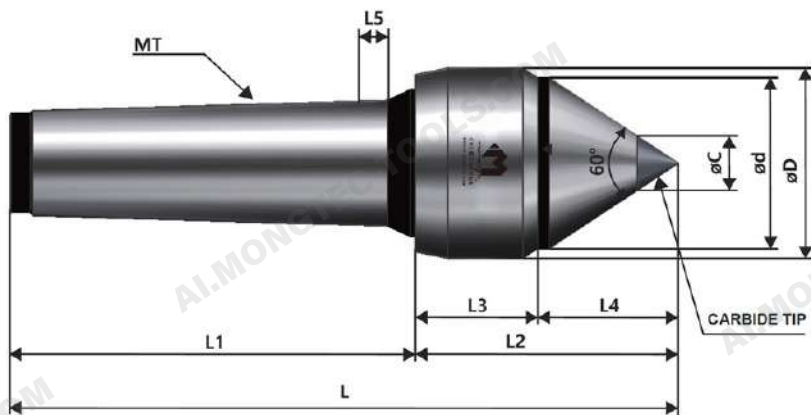
Dimension

Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
2004001	MT2	30	27	123	75	48	22	25	4.5	200	4,000	0.003
3004001	MT3	35	32	144.2	89	55.2	25	30.2	5	400	3,000	0.003
4004001	MT4	48	43	191	116	75	35	40	6	700	3,000	0.003
5004001	MT5	62	57	238	144	94	40.4	53.6	8	1,300	2,000	0.003

Maximum R.P.M based on Workpiece weight.



MWNC

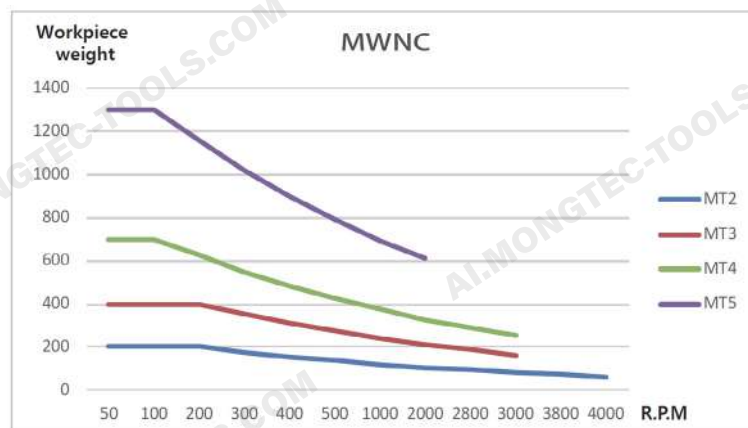


- Center axis point Carbide type
- Carbide hardness HRA 90~91

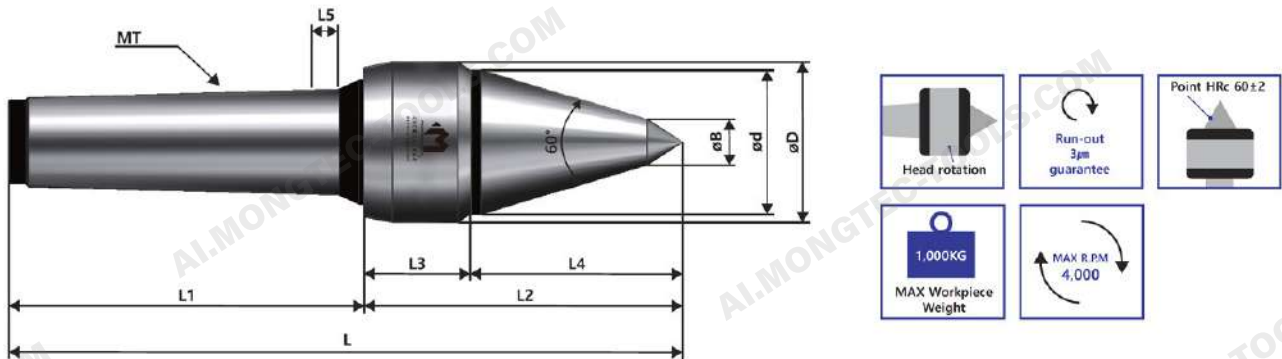
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
2104001	MT2	30	27	123	75	48	22	26	4.5	10	200	4,000	0.003
3104001	NT3	35	32	144.2	89	55.2	25	30.2	5	10	400	3,000	0.003
4104001	MT4	48	43	191	116	75	35	40	6	14	700	3,000	0.003
5104001	MT5	62	57	238	144	94	40.4	53.6	8	18	1,300	2,000	0.003

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.



- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62

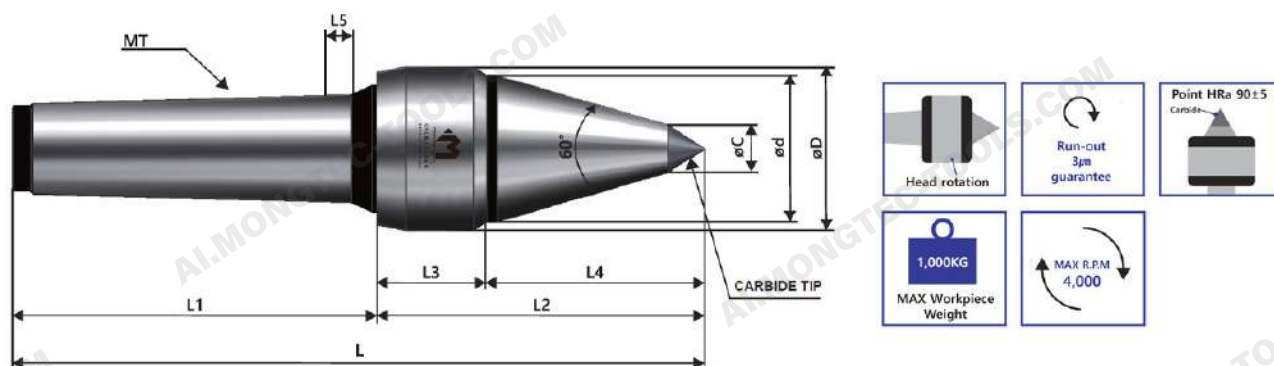
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦD			
2204001	MT2	30	27	140	75	65	22	43	4.5	10	120	4,000	0.003
3204001	MT3	35	32	468	89	79	25	54	5	10	320	3,000	0.003
4204001	MT4	48	43	220	116	104	35	69	6	14	550	3,000	0.003
5204001	MT5	62	57	279	144	135	40.4	94.6	8	16	1,000	2,000	0.003

Maximum R.P.M based on Workpiece weight.



MWNAC

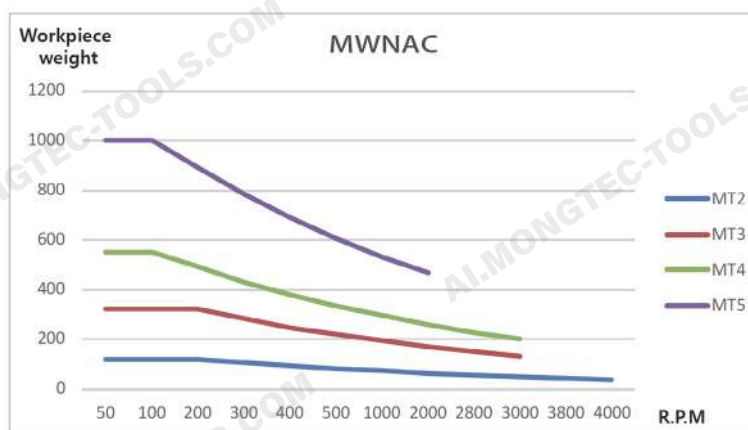


- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

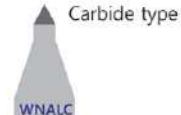
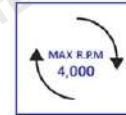
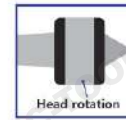
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
2304001	MT2	30	27	140	75	65	22	43	4.5	10	120	4,000	0.003
3304001	MT2	35	32	168	89	79	25	54	5	10	320	3,000	0.003
4304001	MT4	48	43	220	116	104	35	69	6	14	550	3,000	0.003
5304001	MT5	62	57	279	144	135	40.4	94.6	8	16	1,000	2,000	0.003

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MWNAL / MWNALC

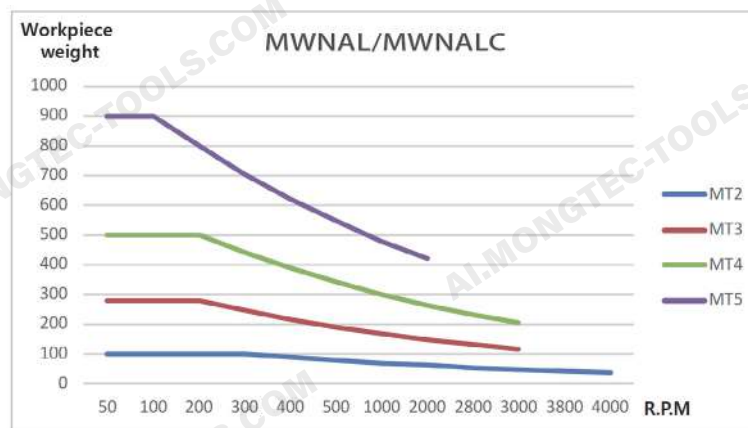


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	Φd1			
2404001	MT2	30	27	143.8	75	68.8	22	46.8	4.5	12	10	100	4,000	0.003
3404001	MT3	35	32	172	89	83	25	58	5	14	10	280	3,000	0.003
4404001	MT4	48	43	234	116	118	35	83	6	22	12	500	3,000	0.003
5404001	MT5	62	57	294.4	144	150.4	40.4	110	8	21.4	12	900	2,000	0.003
2504001	MT2	30	27	143.8	75	68.8	22	46.8	4.5	12	10	100	4,000	0.003
3504001	MT3	35	32	172	89	83	25	58	5	14	10	280	3,000	0.003
5404001	MT4	48	43	234	116	118	35	83	6	22	12	500	3,000	0.003
5504001	MT5	62	57	294.4	144	150.4	40.4	110	8	21.4	12	900	2,000	0.003

Maximum R.P.M based on Workpiece weight.



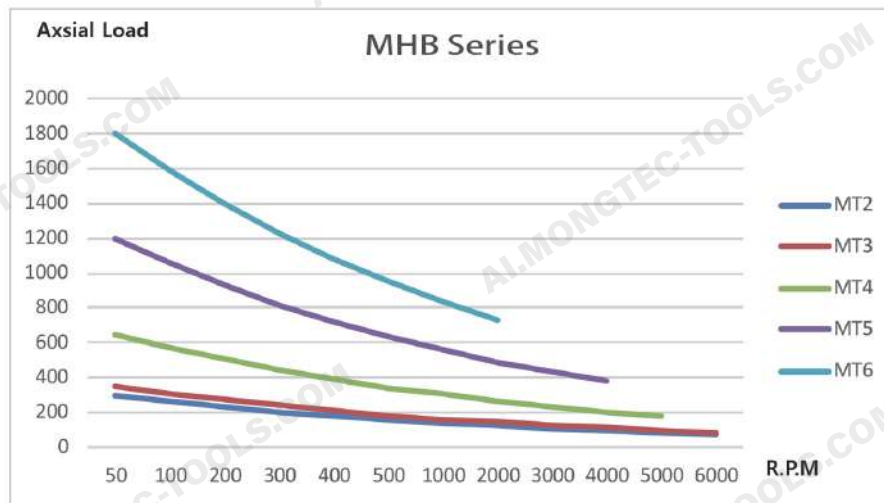
Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MHB Series

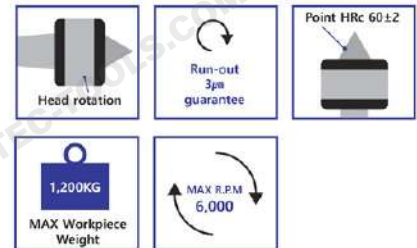
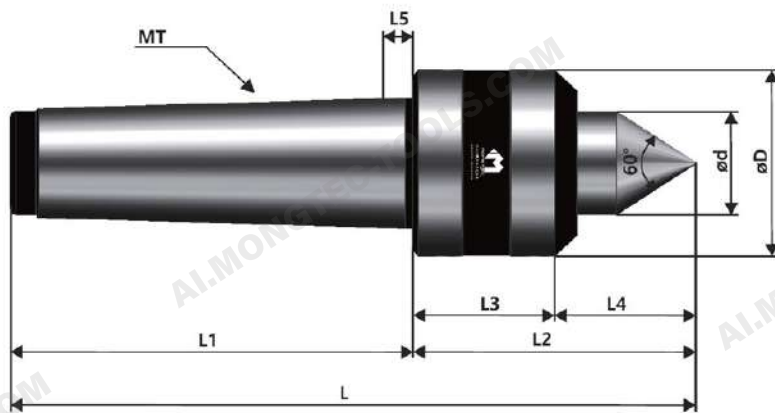
For manual lathe



- HEAD rotation type
- Suitable to elaborate turning operation such as manufacturing of small axis
- Degree of precision of rotation - Max 0.003mm



MHB

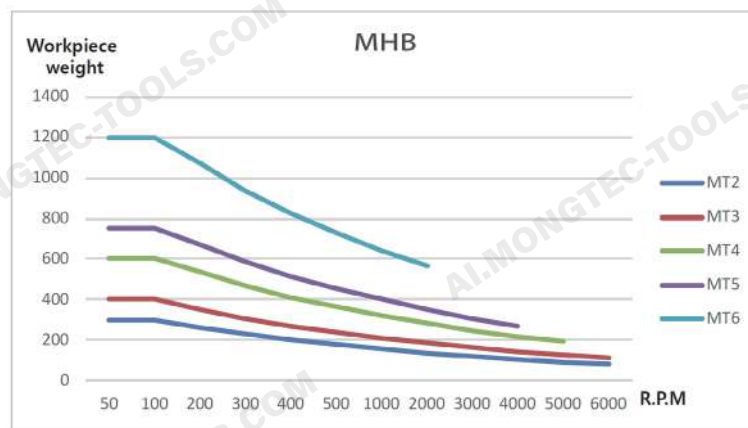


- Heat treatment hardness of center axis point HRC 58~62
- Slim body

Dimension

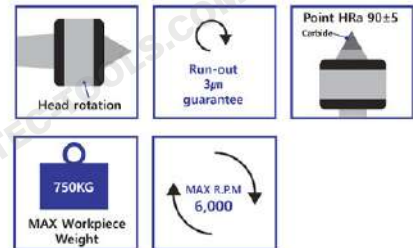
Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
2008001	MT2	38	18	124	68	56	35	21	6	300	6,000	0.003
3008001	MT3	38	18	141	85	56	35	21	6	400	6,000	0.003
4008001	MT4	45	25	184	108	76	44	32	5.3	600	5,000	0.003
5008001	MT5	36	28	229	136	93	58	35	6.3	750	4,000	0.003
6008001	MT6	102	55	333	189	144	82	62	10	1,200	2,000	0.003

Maximum R.P.M based on Workpiece weight.



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MHBC

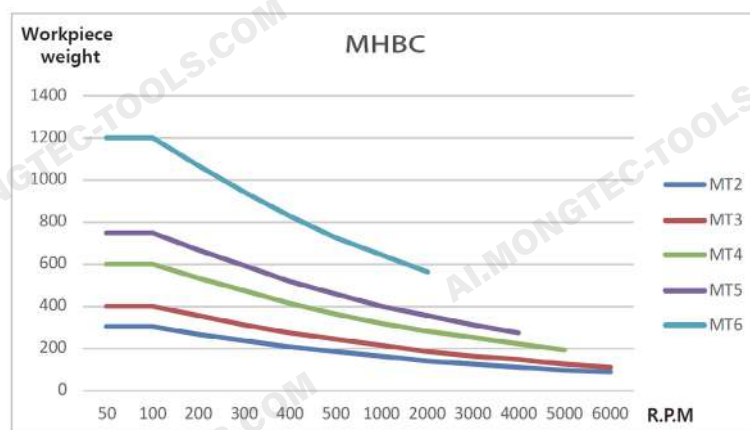


- Center axis point Carbide type
- Carbide hardness HRA 90~91
- Slim body

Dimension

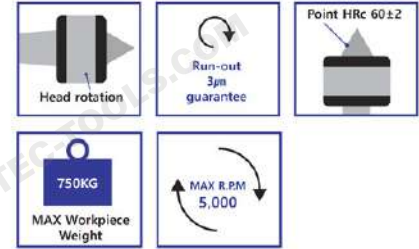
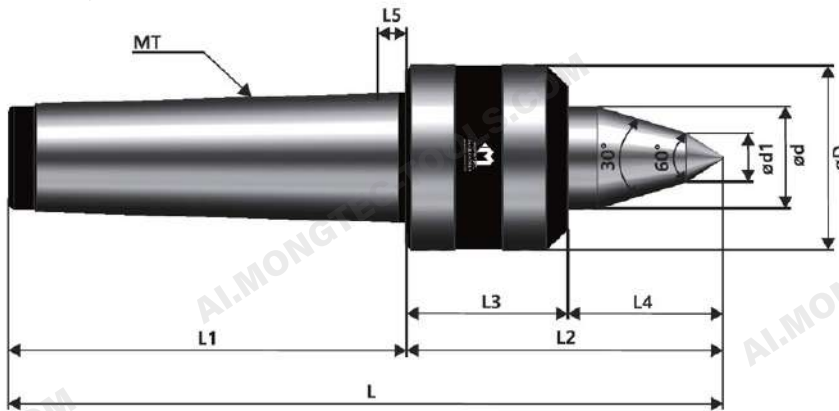
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
2108001	MT2	38	18	124	68	56	35	21	6	10	300	6,000	0.003
3108001	MT3	38	18	141	85	56	35	21	6	10	400	6,000	0.003
4108001	MT4	45	25	184	108	76	44	32	5.3	12	600	5,000	0.003
5108001	MT5	63	28	229	136	93	58	35	6.3	14	750	4,000	0.003

Maximum R.P.M based on Workpiece weight.



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MHBA

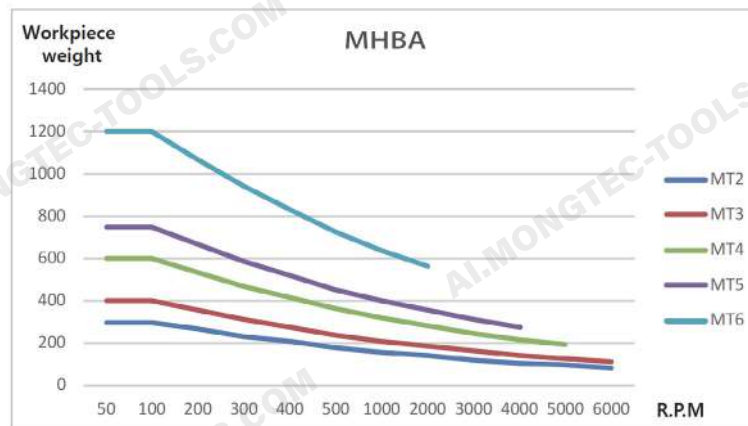


- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Slim body

Dimension

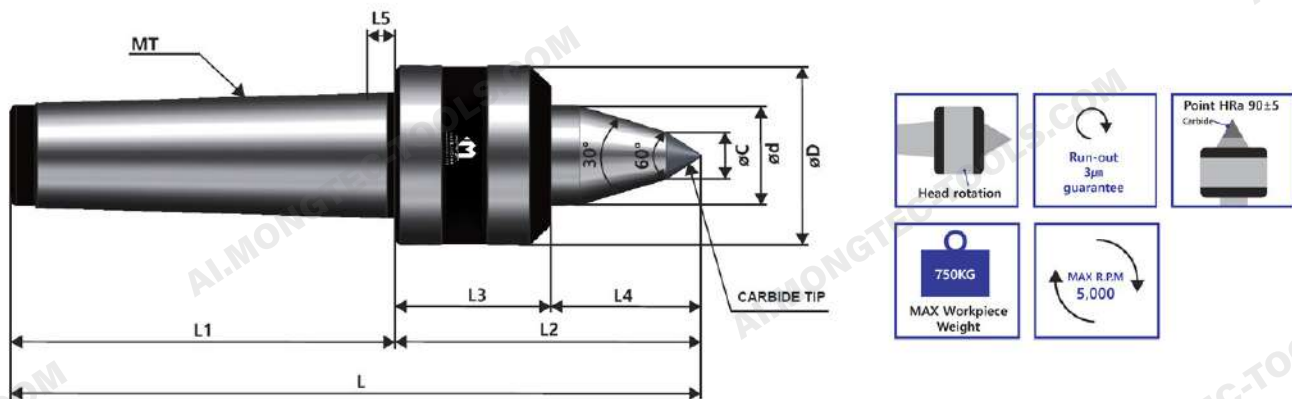
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	Φd1			
4208001	MT4	45	25	194.2	108	86.2	44	42.2	5.3	12	600	5,000	0.003
5208001	MT5	63	28	238	136	102	58	44	6.3	14	750	4,000	0.003

Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MHBAC

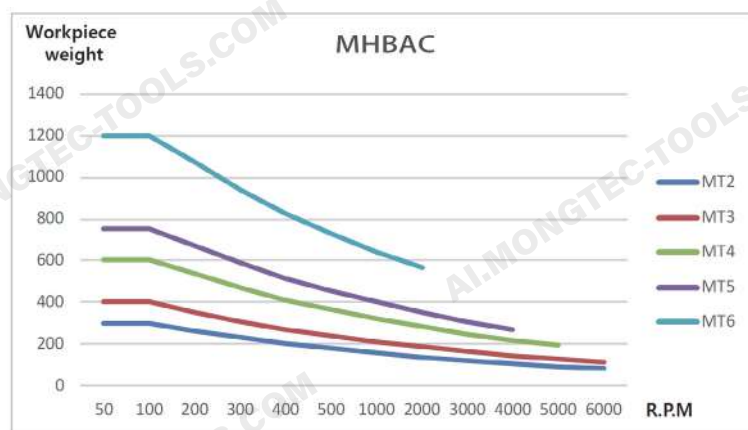


- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91
- Slim body

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
4308001	MT4	45	25	194.2	108	86.2	44	42.2	5.3	12	600	5,000	0.003
5308001	MT5	63	28	238	136	102	58	44	6.3	14	750	4,000	0.003

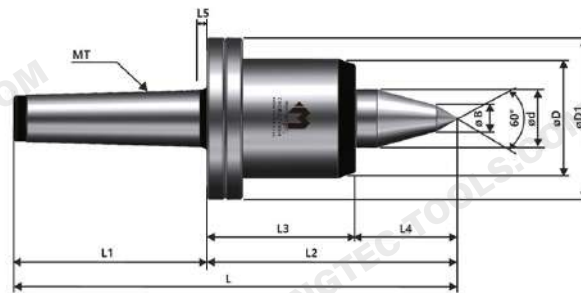
Maximum R.P.M based on Workpiece weight.



Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MSHF Series

Live center dedicated to tailstock eccentric

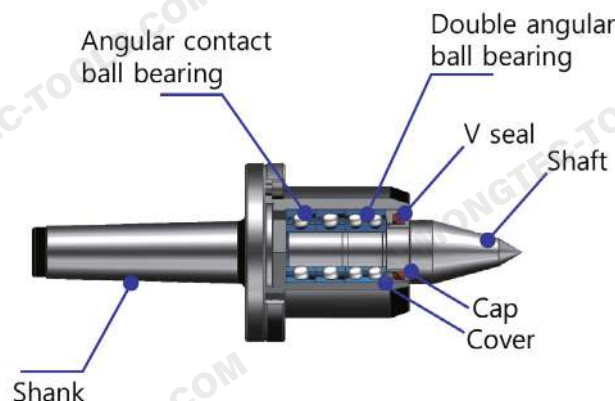


- If the center of the tailstock and chuck are not aligned, use the center to correct this
- Maximum eccentricity adjustment 2mm
- Can high-speed precision machining by using high-speed, high-precision bearings
- Improving cutting oil inflow prevention function by applying special V seal and rotation cap
- To enhance durability against impact, all parts have a heat treatment hardness of HRC58~62
- Adopted two step angle to minimize byte interference

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
4007101	MT4	66	89	32	248.2	108	140.2	83.2	57	14	1,400	6,000	0.002
5007101	MT5	66	89	32	276.2	136	140.2	83.2	57	14	1,400	6,000	0.002

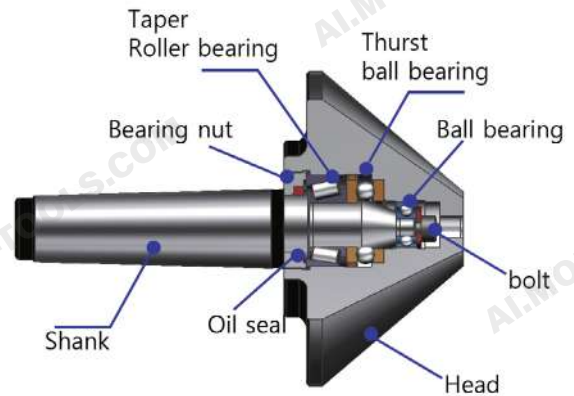
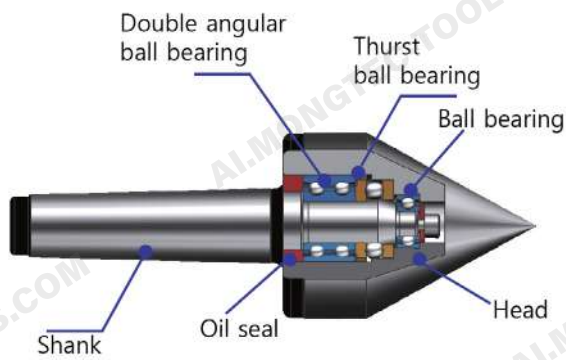
Maximum R.P.M based on Workpiece weight.



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MPC Series

Pipe center



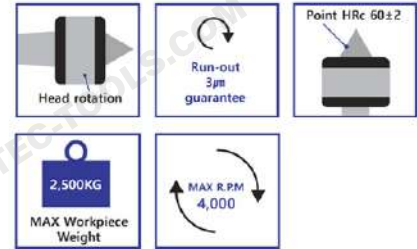
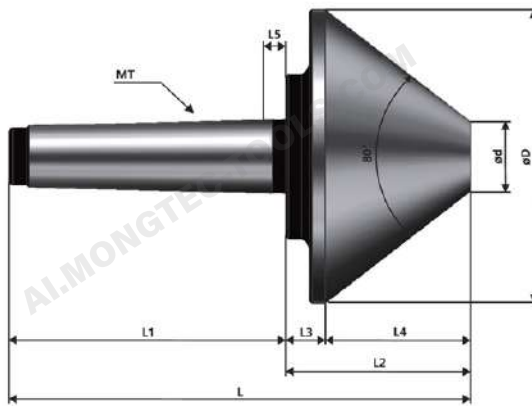
- HEAD rotation type
- RUN OUT - Max 0.003mm

Caution



If physical force is applied to this part, the product may be damaged.

MPC80

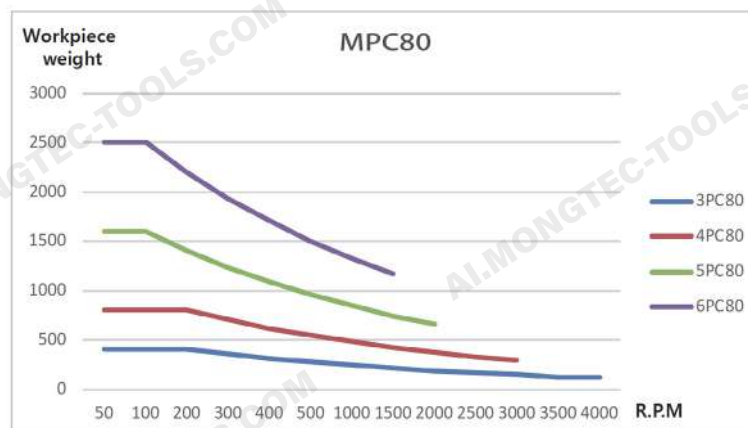


- Heat treatment hardness of center head HRC 58~62
- Center head accuracy can be adjusted and supplemented with NUT.
- Center axial point 80 degree

Dimension

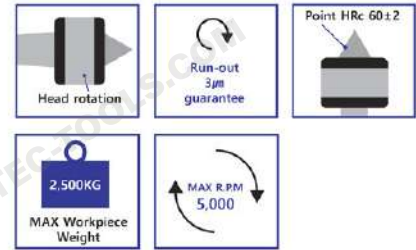
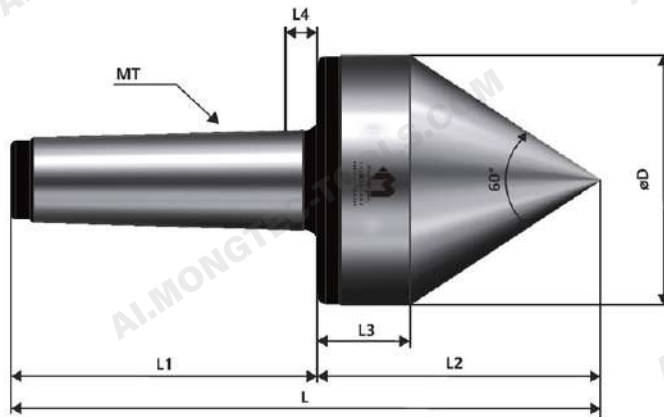
Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
3205001	MT3	59	20	143	85	58	12.3	44.7	6	400	4,000	0.003
4205001	MT4	125	30	180	108	72	15.4	56.6	8	800	3,000	0.003
5205001	MT5	150	35	220	136	84	15.5	68.5	8	1,600	2,000	0.003
6205001	MT6	200	38	305	189	116	19.5	96.5	10	2,500	1,500	0.003

Maximum R.P.M based on Workpiece weight.



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DK90 BT30-16L

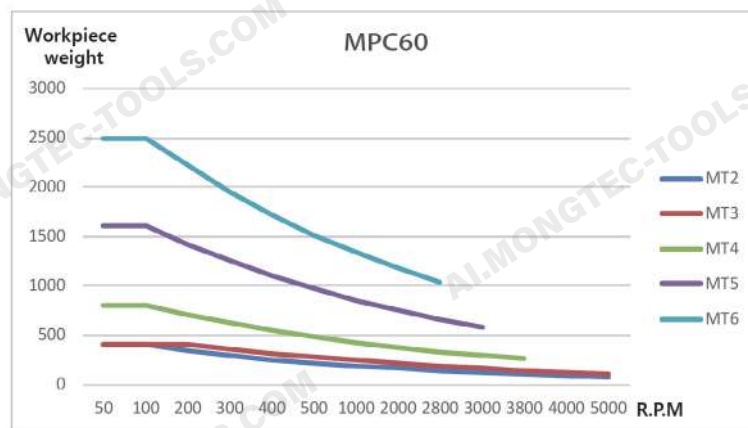


- Heat treatment hardness of center head HRC 58~62
- Center head accuracy can be adjusted and supplemented with NUT.
- Center axial point 60 degree

Dimension

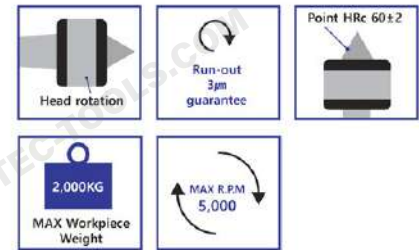
Model No	Morse Taper	Dimension						MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	L	L1	L2	L3	L4			
2005001	MT2	44	134	68	66	28.3	6	400	5,000	0.003
3005001	MT3	56	163	85	78	30	6	400	5,000	0.003
4005001	MT4	78	208	108	100	33	8	800	3,800	0.003
5005001	MT5	98	261	136	125	41	8	1,600	3,000	0.003
6005001	MT6	118	343	189	154	52.7	10	2,500	2,800	0.003

Maximum R.P.M based on Workpiece weight.



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MPC60L

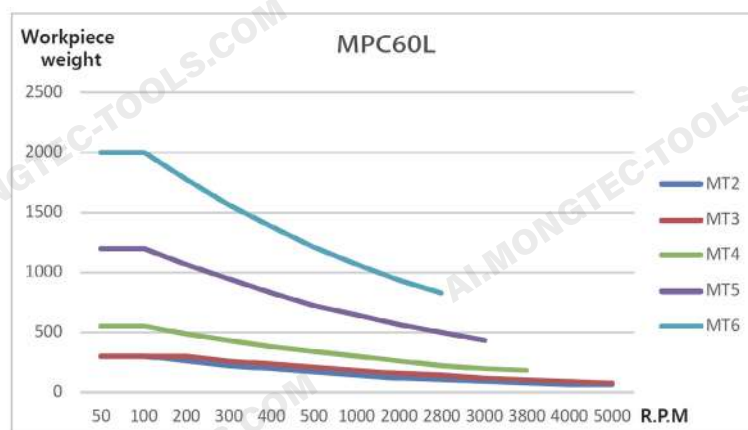


- Two-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center head HRC 58~62
- Center head accuracy can be adjusted and supplemented with NUT.
- Center axial point 60 degree

Dimension

Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
2105001	MT2	44	12	147	68	79	31.3	20	6	300	5,000	0.003
3105001	MT3	56	12	173	85	88	30	20	6	300	5,000	0.003
4105001	MT4	78	16	218	108	110	33	23.4	8	550	3,800	0.003
5105001	MT5	98	19	276	136	140	41	30.6	8	1,200	3,000	0.003
6105001	MT6	118	20	353	189	164	46.1	33	10	2,000	2,800	0.003

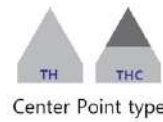
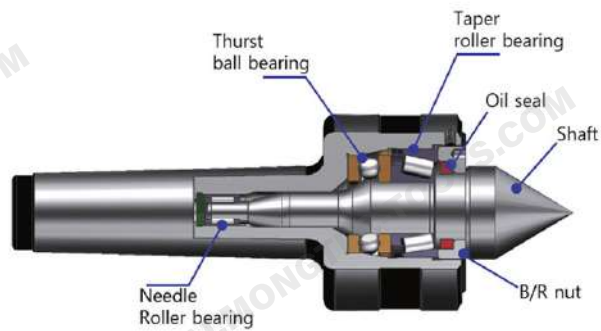
Maximum R.P.M based on Workpiece weight.



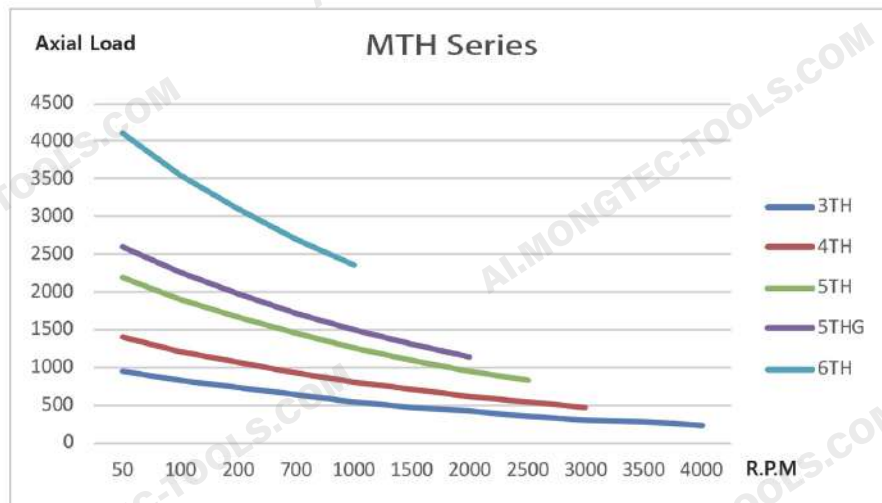
Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

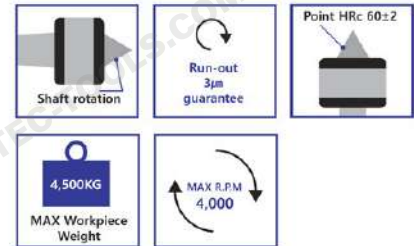
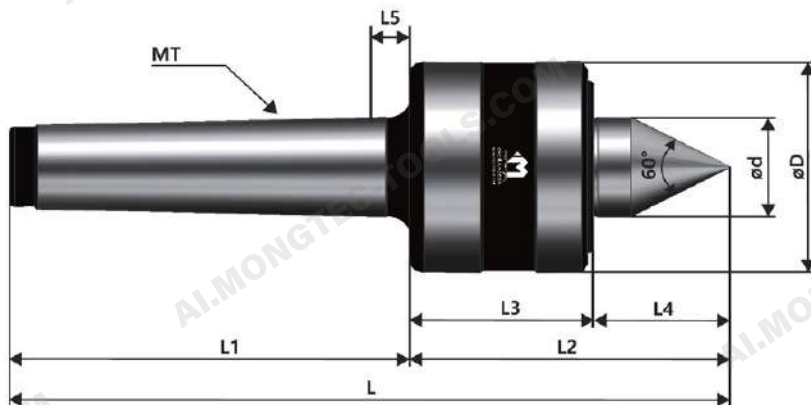
MTH Series

For heavy cutting



- Adjustable to wobble of center axis by nut
- RUN OUT - Max 0.003mm



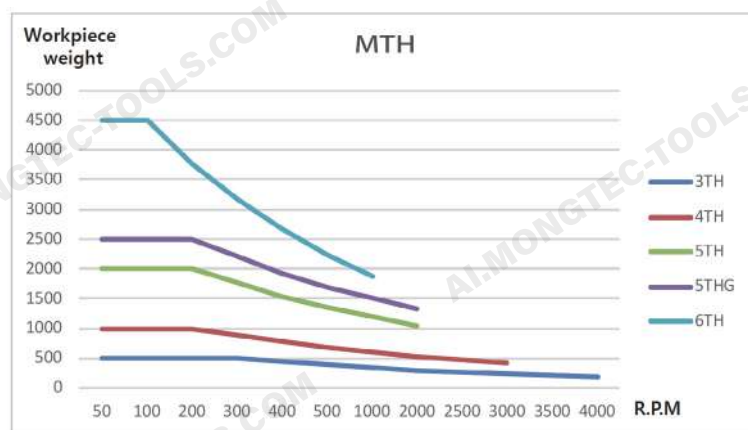


- Heat treatment hardness of center axis point HRC 58~62

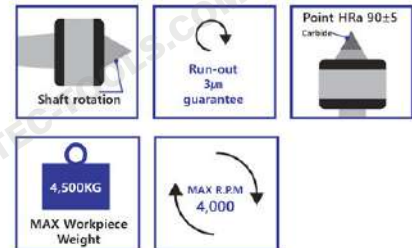
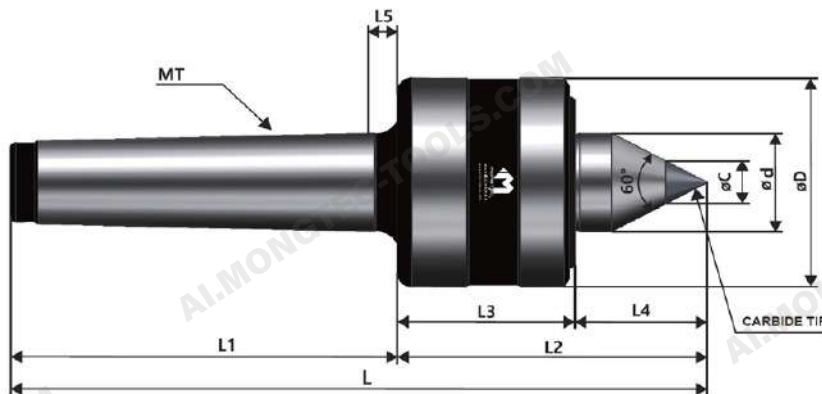
Dimension

Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
3006001	MT3	49	25	154	85	69	43	26	6	500	4,000	0.003
4006001	MT4	66	31.4	194.5	108	86.5	49.5	37	8	1,000	3,000	0.003
5006001	MT5	81	40	242	136	106	61	45	8	2,000	2,500	0.003
G5006001	MT5	93	40	250	136	114	71	43	8	2,500	2,000	0.003
6006001	MT6	126	60	334.2	189	145.2	85.2	60	10	4,500	1,000	0.003

Maximum R.P.M based on Workpiece weight.



MTHC

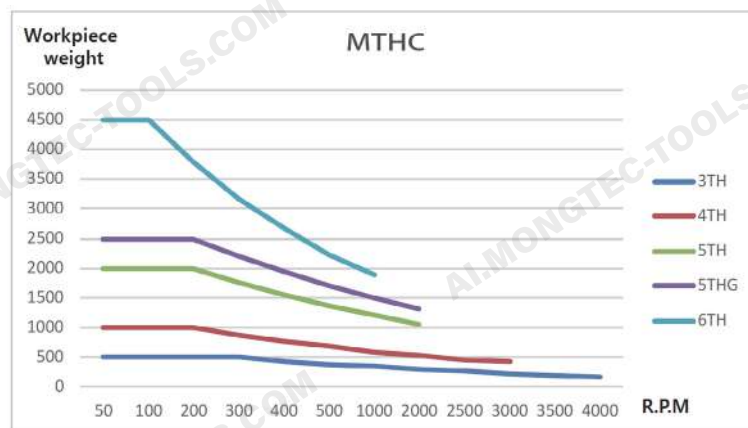


- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
3106001	MT3	49	25	154	85	69	43	26	6	10	300	4,000	0.003
4106001	MT4	66	31.4	194.5	108	86.5	49.5	37	8	14	1,000	3,000	0.003
5106001	MT5	81	40	242	136	106	61	45	8	18	2,000	2,500	0.003
G5106001	MT5	93	40	250	136	114	71	43	8	18	2,500	2,000	0.003
6106001	MT6	126	60	334.2	189	145.2	85.2	60	10	30	4,500	1,000	0.003

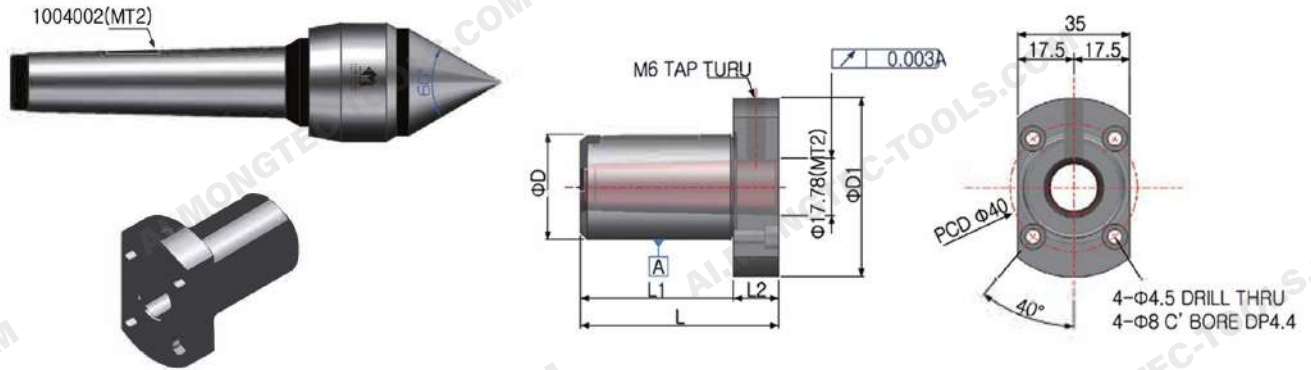
Maximum R.P.M based on Workpiece weight.



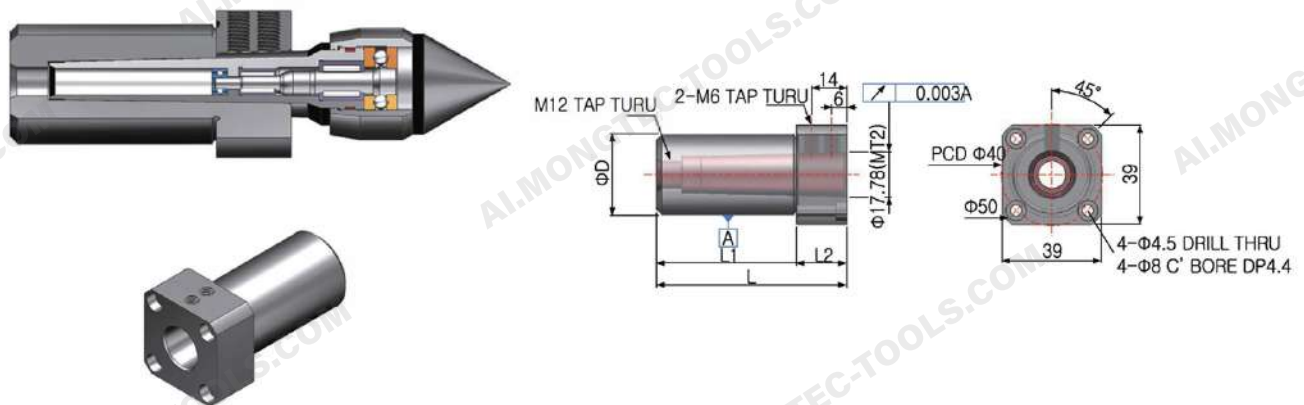
Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

SWISS TYPE MACHINE

SWISS TURNING MT SLEEVE A



SWISS TURNING MT SLEEVE B



- Heat treatment hardness HRC 58-62
- RUN OUT 0.003mm
- This product is connect device that can use live center at small compound lathes.

Dimension

Model No	Morse Taper	Dimension					MAX RunOut(mm)
		ϕD	$\phi D1$	L	L1	L2	
2001002	MT2	33	56	62	48	14	0.003
2101002	MT2	32	50	75	55	20	0.003

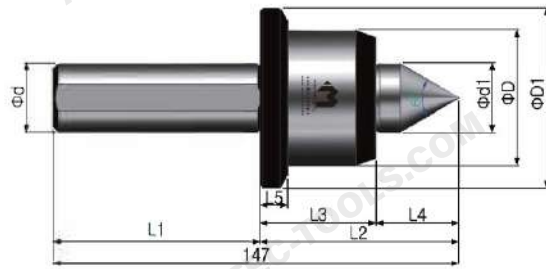
Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

SWISS TYPE MACHINE

2SNN



2S NNST



- RUN OUT 0.003mm
- Heat treatment hardness of center axis HRC 58-62
- Detachable by Nut attached.
- Prevention of penetration of cutting oil and foreigner substance by using special oil seal.
- High degree of accuracy of rotation and long life by using high degree of accuracy triplexed bearing structure.

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	ΦD1	Φd1	L	L1	L2	L3	L4	L5	L7			
2601001	MT2	49	65	25	-	68	72	42	30	6	10	500	5,000	0.003
ATS2601001	ST19.05	49	65	25	19.05	75	72	42	30	6	10	500	5,000	0.003
BTS2601001	ST25	49	65	25	25	85	72	42	30	6	10	500	5,000	0.003
CTS2601001	ST32	49	65	25	32	100	72	42	30	6	10	500	5,000	0.003
DTS2601001	ST33	49	65	25	33	100	72	42	30	6	10	500	5,000	0.003

2WN



2WNST



- RUN OUT 0.003mm
- Heat treatment hardness of center axis HRC 58-62
- Head rotation type.
- Made minimized bodies for reducing bite interfere

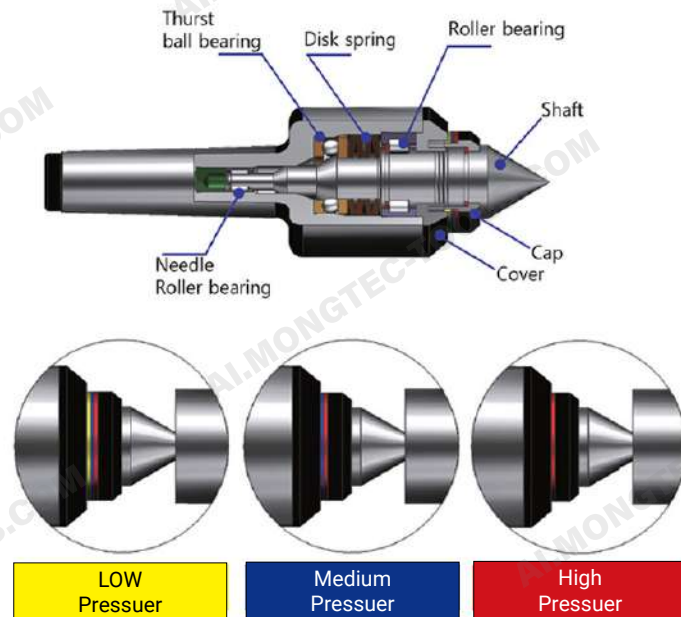
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	Φd1	L	L1	L2	L3	L4	L5			
2004001	MT2	30	-	27	123	75	48	22	26	4.5	200	4,000	0.003
ATS2004001	ST19.05	30	19.05	27	123	75	48	22	26	4.5	200	4,000	0.003
BTS2004001	ST25	30	25	27	133	85	48	22	26	4.5	200	4,000	0.003
CTS2004001	ST32	30	32	27	148	100	48	22	26	4.5	200	4,000	0.003
DTS2004001	ST33	30	33	27	148	100	48	22	26	4.5	200	4,000	0.003

Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MSR Series

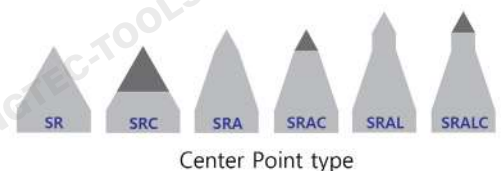
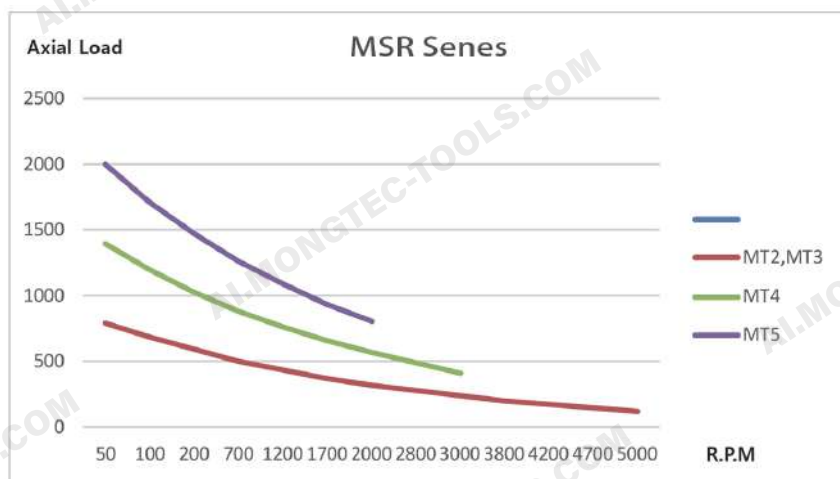
Pressure display type

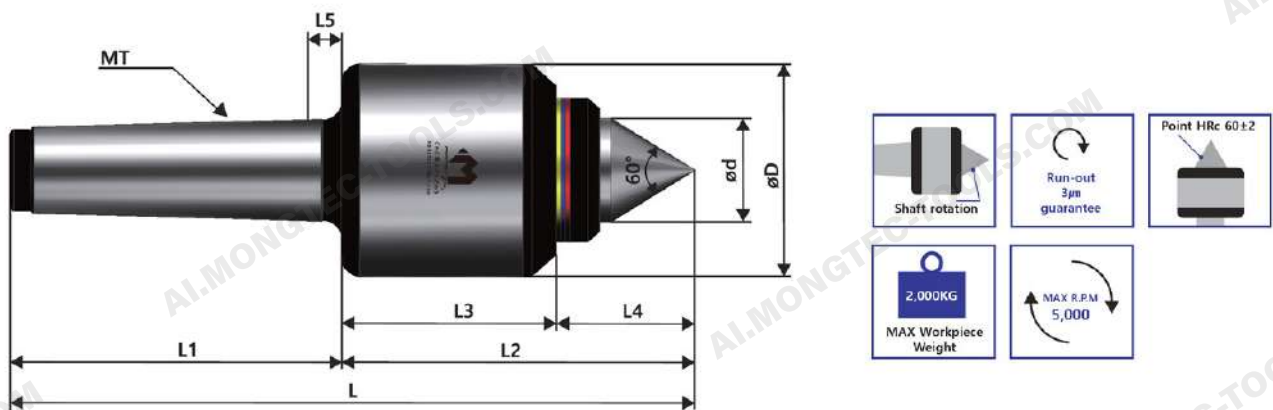


Dimension

Color / Product Name	2SR	3SR	4SR	5SR
YELLOW	0~500 kgf	0~500 kgf	0~1,000 kgf	0~1,500 kgf
BLUE	500~1,500 kgf	500~1,500 kgf	1,000~2,000 kgf	1,500~3,000 kgf
RED	1,500~2,500 kgf	1,500~2,500 kgf	2,000~3,000 kgf	3,000~4,500 kgf

- You can easily tell the support of a workpiece
- When used with a face driver, it is possible to minimize wear on spindle bearings due to continuous impact.
- Runout - Max 0.003mm



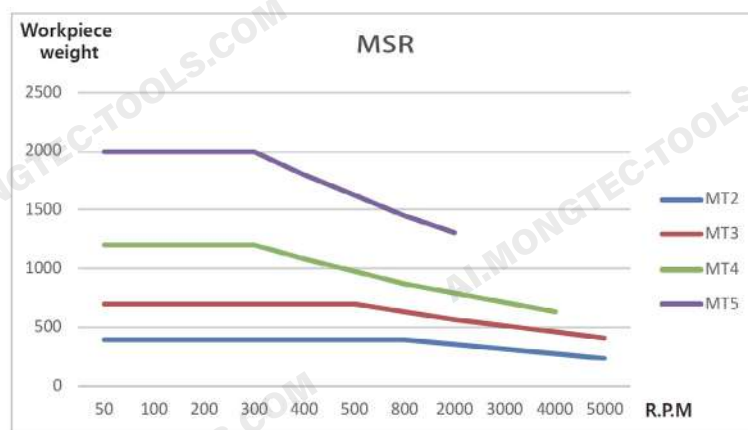


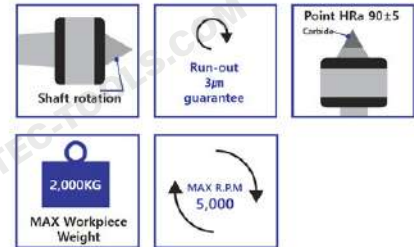
- Heat treatment hardness of center axis point HRC 58~62

Dimension

Model No	Morse Taper	Dimension								MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5			
2051001	MT2	50	25	155	68	87	52.6	34.4	6	400	5,000	0.003
3051001	MT3	50	25	172	85	87	52.6	34.4	6	700	5,000	0.003
4051001	MT4	65	32	223	108	115	70	45	8	1,200	3,000	0.003
5051001	MT5	94	55	294	136	158	88	70	8	2,00	2,000	0.003

Maximum R.P.M based on Workpiece weight.



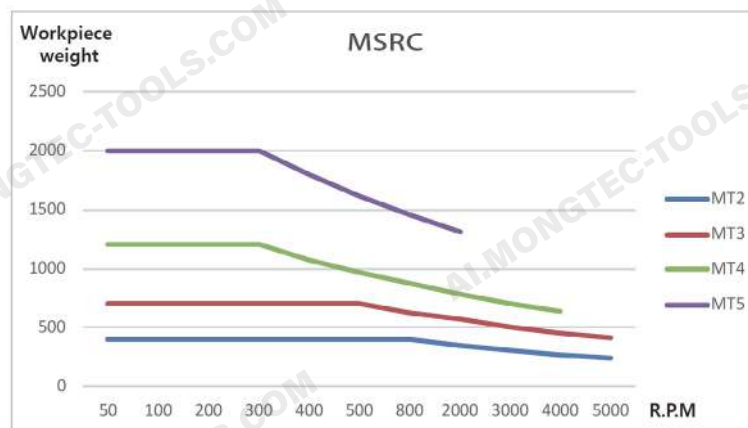


- Center axis point Carbide type
- Carbide hardness HRA 90~91

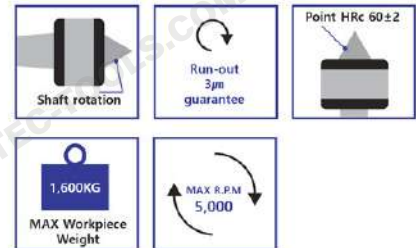
Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
2151001	MT2	50	25	155	68	87	52.6	34.4	6	10	400	5,000	0.003
3151001	MT3	50	25	172	85	87	52.6	34.4	6	10	700	5,000	0.003
4151001	MT4	65	32	223	108	115	70	45	8	14	1,200	3,000	0.003
5151001	MT5	94	55	294	136	158	88	70	8	18	2,000	2,000	0.003

Maximum R.P.M based on Workpiece weight.



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- ## Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦB			
2251001	MT2	50	25	172	68	104	52.6	51.4	6	10	320	5,000	0.003
3251001	MT3	50	25	189	85	104	52.6	51.4	6	10	560	5,000	0.003
4251001	MT4	65	32	240	108	132	70	62	8	14	960	3,000	0.003
5251001	MT5	94	55	329	136	193	88	105	8	18	1,600	2,000	0.003

MSRA

Workpiece weight

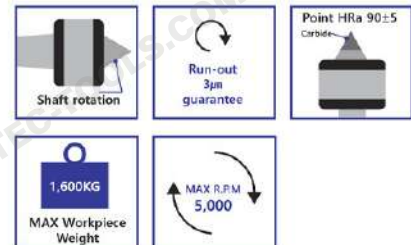
R.P.M

Legend: MT2, MT3, MT4, MT5

R.P.M	MT2	MT3	MT4	MT5
50	350	550	950	1600
300	350	550	950	1600
500	350	550	800	1300
800	350	450	700	1150
2000	300	400	600	1000
4000	200	350	500	-
5000	200	350	-	-

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MSRAC

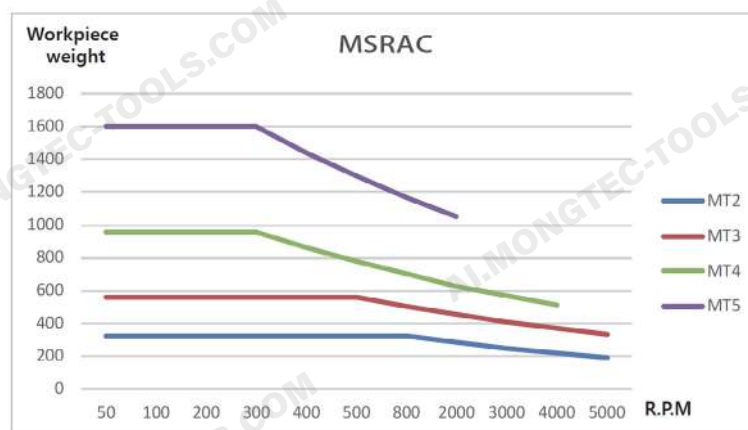


- Two-level angular shape of the center axis point to minimize interference during processing
- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

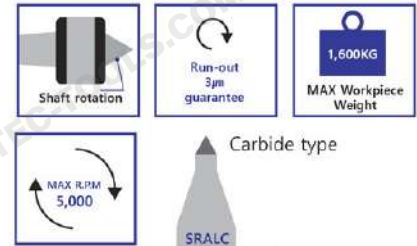
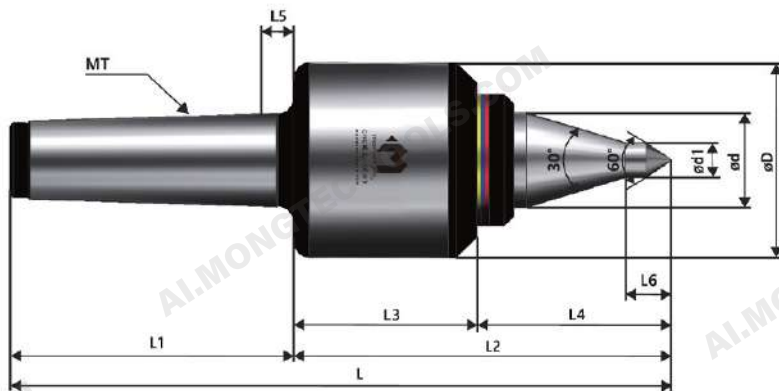
Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC			
2351001	MT2	50	25	172	68	104	52.6	51.4	6	10	320	5,000	0.003
3351001	MT3	50	25	189	85	104	52.6	51.4	6	10	560	5,000	0.003
4351001	MT4	50	32	240	108	132	70	62	8	14	960	3,000	0.003
535101	MT5	94	55	329	136	193	88	105	8	18	1,600	2,000	0.003

Maximum R.P.M based on Workpiece weight.



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MSRAL/MSRALC

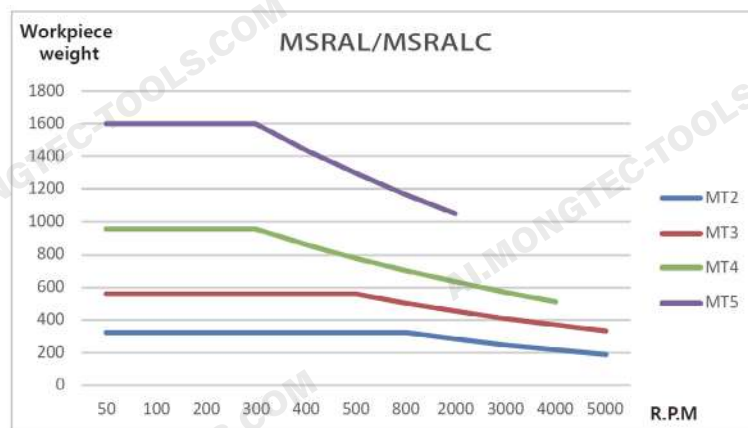


- 3-level angular shape of the center axis point to minimize interference during processing
- Heat treatment hardness of center shaft HRC 58~62
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	L6	Φd1			
2451001	MT2	50	25	177	68	109	52.6	56.4	6	13.2	10	320	5,000	0.003
3451001	MT3	50	25	194	85	109	52.6	56.4	6	13.2	10	650	5,000	0.003
4451001	MT4	65	32	250.5	108	142.5	70	58.5	8	18.5	12	960	3,000	0.003
5451001	MT5	94	55	344	136	208	88	120	8	22.7	14	1,600	2,000	0.003
2551001	MT2	50	25	177	68	109	52.6	56.4	6	13.2	10	320	5,000	0.003
3551001	MT3	50	25	194	85	109	52.6	56.4	6	13.2	10	560	5,000	0.003
4551001	MT4	65	32	250.5	108	142.5	70	58.5	8	18.5	12	960	3,000	0.003
5551001	MT5	94	55	344	136	208	88	120	8	22.7	14	1,600	2,000	0.003

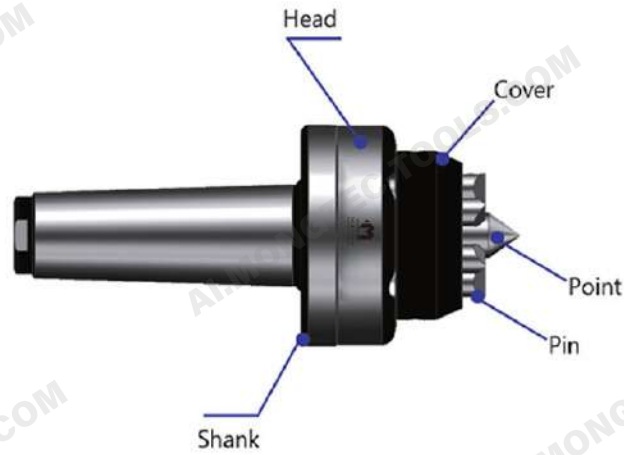
Maximum R.P.M based on Workpiece weight.



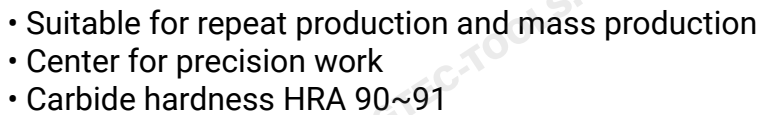
Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

MFC Series

Face driver

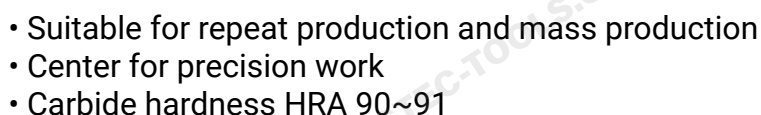


- Minimum working time loss and productivity improvement by 1-time clamping
- Auto-adjustable accuracy as in itself to material surface
- High-wear performance
- Wide-use to NC. owing to possible the chucking regardless of any model with morse taper type and straight type



Model No	Morse Taper	Dimension														Work Size	MAX Weight(kg)
		Φd	Φd1	Φd2	Φd3	ΦD	ΦD1	L	L1	L2	L3	L4	L5	L6	L7		
3107001	MT3	5	17	28	5	41.4	41	141.3	56.3	85	31.8	24.5	6	5	5.3	Φ18~Φ38	55
4107001	MT4	5	17	28	5	41.4	41	164.3	56.3	108	31.8	24.5	8	5	5.3		
5107001	MT5	5	17	28	5	41.4	41	192.3	56.3	136	31.8	24.5	8	5	5.3		
3207001	MT3	9	26	38	7	52	51.4	148.8	63.8	85	36.8	27	6	6.5	8.8	Φ27~Φ55	60
4207001	MT4	9	26	38	7	52	51.4	171.8	63.8	108	36.8	27	8	6.5	8.8		
5207001	MT5	9	26	38	7	52	51.4	199.8	63.8	136	36.8	27	8	6.5	8.8		
3307001	MT3	14	38	52	9	68	67.4	168	83	85	47	36	6	9	13	Φ39~Φ75	70
4307001	MT4	14	38	52	9	68	67.4	191	83	108	47	36	8	9	13		
5307001	MT5	14	38	52	9	68	67.4	219	83	136	47	36	8	9	13		
4407001	MT4	18	54	72	14	83.5	82.5	200.6	92.6	108	57.6	35	8	11	15.6	Φ55~Φ100	100
5407001	MT5	18	54	72	14	83.5	82.5	228.6	92.6	136	57.6	35	8	11	15.6		

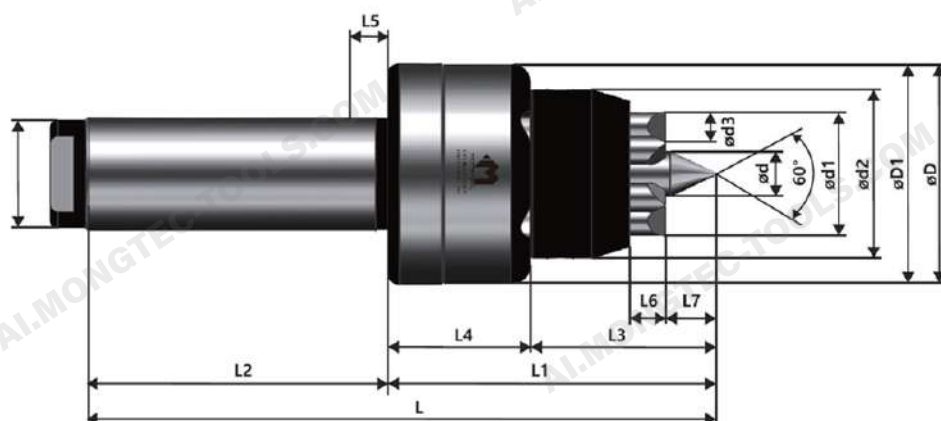
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Model No	Dimension														Work Size	MAX Weight(kg)
	Φd	Φd1	Φd2	Φd3	Φd4	ΦD	ΦD1	L	L1	L2	L3	L4	L6	L7		
TS0107001	5	17	28	5	35	41.4	41	141.3	56.3	85	31.8	24.5	5	5.3	Φ18~Φ38	55
TS0207001	9	26	28	7	35	52	51.4	148.3	63.8	85	36.8	27	6.5	8.8	Φ27~Φ55	60
TS0307001	14	38	52	9	35	68	67.4	168	83	85	47	36	9	13	Φ39~Φ75	70
TS0407001	18	54	72	14	41	83.5	82.5	177.6	92.6	85	57.6	35	11	15.6	Φ55~Φ100	100

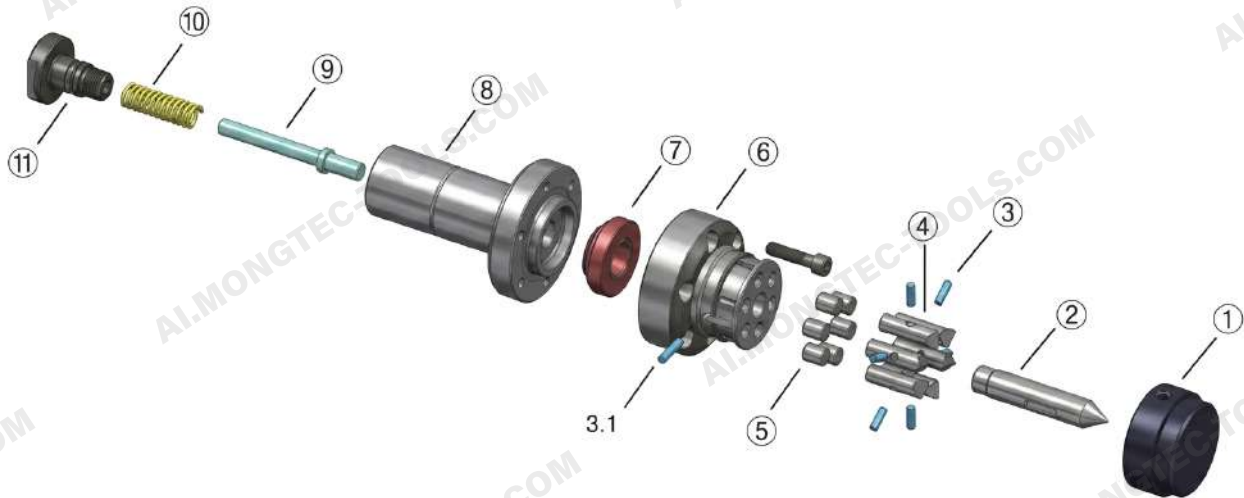
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MFCDST



- Reinforced automatic calibration function of cross-section of workpiece
- It automatically corrects the tapered cross section of the workpiece up to 1.5 mm with uniform pressure in all directions
- Due to the improvement of the workpiece clamping function, the life of parts such as PIN and POINT is prolonged, reducing maintenance costs
- More stable clamping enables longer life of tools in use when processing

Face driver parts diagram



- All parts can be purchased separately

Dimension

Parts No.	TYPE	MFC10	MFC20	MFC30	MFC40
1	MFC Cover	1-0107001	1-0207001	1-0307001	1-0407001
2	MFC Point	2-0107001	2-0207001	2-0307001	2-0407001
3	MFC Pin-Pin	3-0107001	3-0207001	3-0307001	3-0407001
3.1	MFC Point-Pin	3.1-0107001	3.1-0207001	3.1-0307001	3.1-0407001
4	MFC Pin	4-0107001	4-0207001	4-0307001	4-0407001
5	MFC Roller	5-0107001	5-0207001	5-0307001	5-0407001
6	MFC Head	6-0107001	6-0207001	6-0307001	6-0407001
7	MFC Urethane	7-0107001	7-0207001	7-0307001	7-0407001
8	MFC Shank	8-0107001	8-0207001	8-0307001	8-0407001
9	MFC Spring Lode	9-0107001	9-0207001	9-0307001	9-0407001
10	MFC Spring	10-0107001	10-0207001	10-0307001	10-0407001
11	MFC End Cover	11-0107001	11-0207001	11-0307001	11-0407001

Parts No.	TYPE	MFC DST10	MFC DST20	MFC DST30	MFC DST40	MFC DST50
1	MFC Cover	1-DST0107001	1-DST0207001	1-DST0307001	1-DST0407001	1-DST0507001
2	MFC Point	2-DST0107001	2-DST0207001	2-DST0307001	2-DST0407001	2-DST0507001
3	MFC Pin-Pin	3-DST0107001	3-DST0207001	3-DST0307001	3-DST0407001	3-DST0507001
3.1	MFC Point-Pin	3.1-DST0107001	3.1-DST0207001	3.1-DST0307001	3.1-DST0407001	3.1-DST0507001
4	MFC Pin	4-DST0107001	4-DST0207001	4-DST0307001	4-DST0407001	4-DST0507001
5	MFC Roller	5-DST0107001	5-DST0207001	5-DST0307001	5-DST0407001	5-DST0507001
6	MFC Head	6-DST0107001	6-DST0207001	6-DST0307001	6-DST0407001	6-DST0507001
7	MFC Urethane	7-DST0107001	7-DST0207001	7-DST0307001	7-DST0407001	7-DST0507001
8	MFC Shank	8-DST0107001	8-DST0207001	8-DST0307001	8-DST0407001	8-DST0507001
9	MFC Spring Lode	9-DST0107001	9-DST0207001	9-DST0307001	9-DST0407001	9-DST0507001
10	MFC Spring	10-DST0107001	10-DST0207001	10-DST0307001	10-DST0407001	10-DST0507001
11	MFC End Cover	11-DST0107001	11-DST0207001	11-DST0307001	11-DST0407001	11-DST0507001

Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

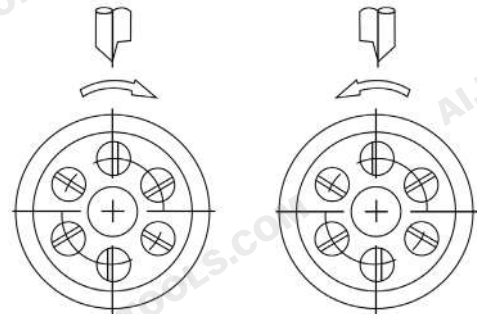


MFace Driver for Taper

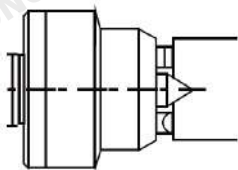
MFace Driver for Chucking Work



Work direction can be adjusted according to the MFC TYPE PIN fastening direction.



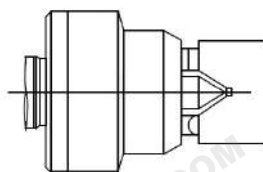
FACE DRIVER CENTER HOLE SIZE



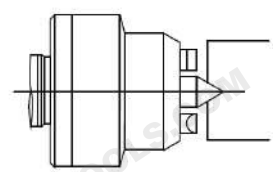
No	MODEL	CENTER HOLE DIA LIMITS	
		MAX Weight(kg)	MAX R.P.M
1	MFC10	2	4
2	MFC20	4	8
3	MFC30	6	12
4	MFC40	8	16

Incorrect Face Driver Mounting

Case where the center hole is too large



Case where the center hole is too small



MHG Series

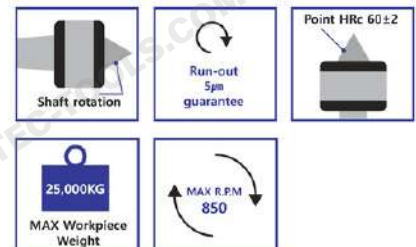
For heavy weight workpiece



- Large workpiece machining center
- Special oil seal, Adoption of contactless (Coolant and oreign matter to prevent infiltration)
- Heat treatment hardness of center axis, HRC 58~62

Order Production Huge Center -MHG120S (30 TON)



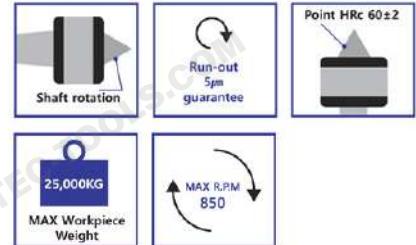
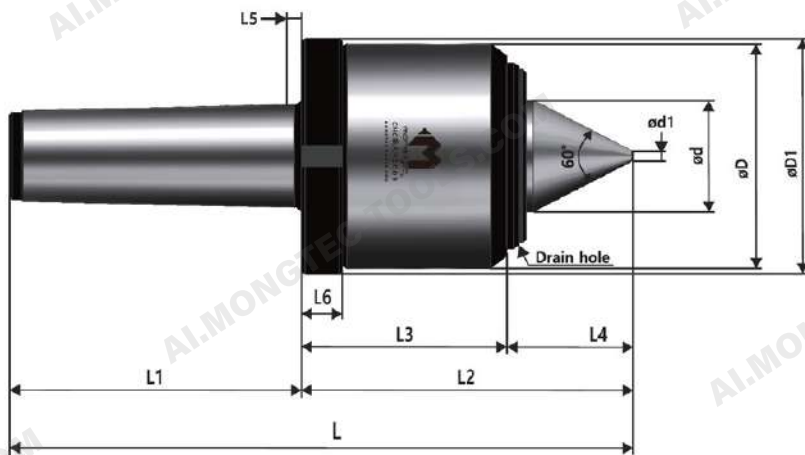


- ## Dimension

Model No	Morse Taper	Dimension									MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	Φd	Φd1	L	L1	L2	L3	L4	L5			
06G6001	MT6	165	79	3	400.7	191	209.7	138	71.7	12	8,000	800	0.005
57G6001					384.4		193.4		55.4				
06G7001	MT7	165	79	3	469.7	260	209.7	138	71.7	12	10,000	800	0.005
57G7001					453.4		193.4		55.4				
08GH	1:10	178	109	3	442.3	203	239.3	138	101.3	10	10,000	850	0.005
	1:20												
001GH	1:10	218	109	3	534.6	250	248.6	193	91.6	10	15,000	750	0.005
	1:20												
021GH	1:10	310	124	3	619.5	268.5	351	242.5	108.4	15	25,000	500	0.005
	1:20												

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MHGN



- Large grinding center
- Special size production possible

Dimension

Model No	Morse Taper	Dimension										MAX Weight(kg)	MAX R.P.M	MAX RunOut(mm)
		ΦD	ΦD1	Φd	Φd1	L	L1	L2	L3	L4	L5			
MHGN80	1:10	178	190	109	3	442.3	203	239.3	138	101.3	10	10,000	850	0.005
	1:20													
MHGN100	1:10	218	228	109	3	534.6	250	284.6	193	91.6	10	15,000	750	0.005
	1:20													
MHGN120	1:10	310	320	124	3	619.5	268.5	351	242.5	108.4	15	25,000	500	0.005
	1:20													

Specifications and dimensions are for reference only and subject to change without notice. Please confirm the latest specifications before ordering.

High accuracy grinding Realization of high precision concentricity

4SNS



4WNS



4SNS



4SNCS



4WNS



MDC Series

Dead center

MDC



- Heat treatment hardness of center axis point HRC 58~62

Dimension

Model No	Morse Taper	Dimension					MAX RunOut(mm)
		ΦD	L	L1	L2	L3	
2409001	MT2	18	100	67	33	5	0.002
3409001	MT3	24.1	123	84	39	5	0.002
4409001	MT4	31.6	159	106.5	52.5	6.5	0.002
5409001	MT5	44.7	205	134.5	70.5	6.5	0.002
6409001	MT6	63.8	275	187	88	8	0.002

MDCC



- Center axis point Carbide type
- Carbide hardness HRA 90~91

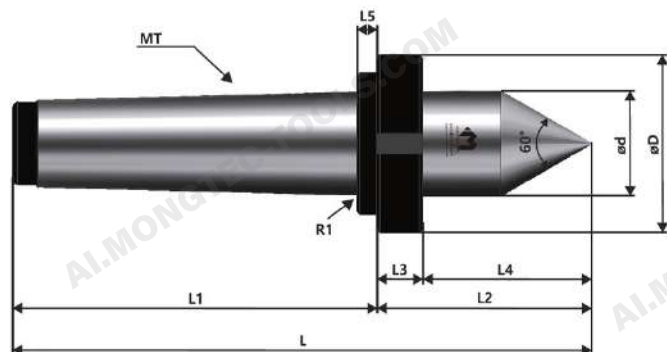
Dimension

Model No	Morse Taper	Dimension						MAX RunOut(mm)
		ΦD	L	L1	L2	L3	ΦC	
2509001	MT2	18	100	67	33	5	10	0.002
3509001	MT3	24.1	123	84	39	5	10	0.002
4509001	MT4	31.6	159	106.5	52.5	6.5	14	0.002
5509001	MT5	44.7	205	134.5	70.5	6.5	18	0.002
6509001	MT6	63.8	275	187	88	8	18	0.002

MMT Series

Nut dead center

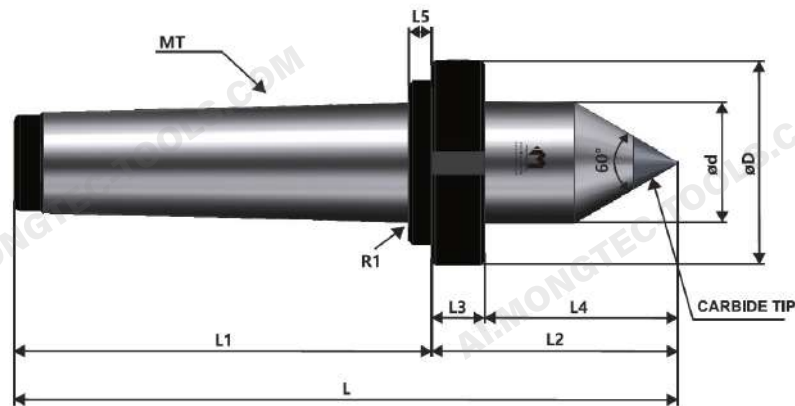
MMT



- Heat treatment hardness of center axis point HRC 58~62
- Csrbide hardness HRA 90~91
- RUN OUT max 0.002mm

Dimension

Model No	Morse Taper	Dimension								MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	
2009001	MY2	40	18	110	67	43	13	30	5	0.002
3009001	MT3	46	24	138	85	53	14	39	6	0.002
4009001	MT4	54	32	175	108	67	16	51	8	0.002
5009001	MT5	75	45	217.5	129.5	88	20	58	8	0.002
6009001	MT6	97	64	296	189	107	28	79	10	0.002

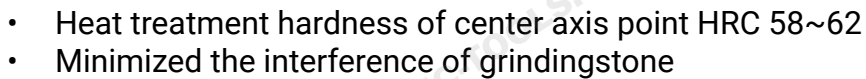


- Center axis point Carbide type
- Carbide hardness HRA 90~91

Dimension

Model No	Morse Taper	Dimension									MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	ΦC	
2109001	MT2	40	18	110	67	43	13	30	5	10	0.002
3109001	MT3	46	24	138	85	53	14	39	6	10	0.002
4109001	MT4	54	54	175	108	57	16	51	8	14	0.002
5109001	MT5	75	75	217.5	129.5	88	20	68	8	18	0.002
6109001	MT6	97	97	296	189	107	28	79	10	30	0.002

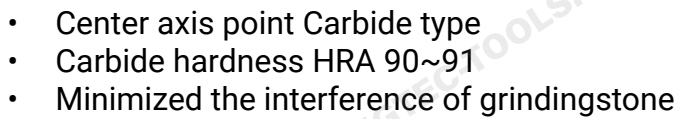
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Model No	Morse Taper	Dimension									MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	E	
2209001	MT2	40	18	110	67	43	13	30	5	11	0.002
3209001	MT3	46	24	138	85	53	14	39	6	15	0.002
4209001	MT4	54	32	175	108	67	16	51	8	21	0.002
5209001	MT5	75	45	217.5	129.5	88	20	68	8	29.4	0.002

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Model No	Morse Taper	Dimension										MAX RunOut(mm)
		ΦD	Φd	L	L1	L2	L3	L4	L5	E	ΦD	
2309001	MT2	40	18	110	67	43	13	30	5	11	10	0.002
3309001	MT3	46	24	138	85	53	14	39	6	15	10	0.002
4309001	MT4	54	54	175	108	67	16	51	8	21	14	0.002
5309001	MT5	75	75	217.5	129.5	88	20	68	8	29.4	18	0.002

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Spindle cleaner

MT

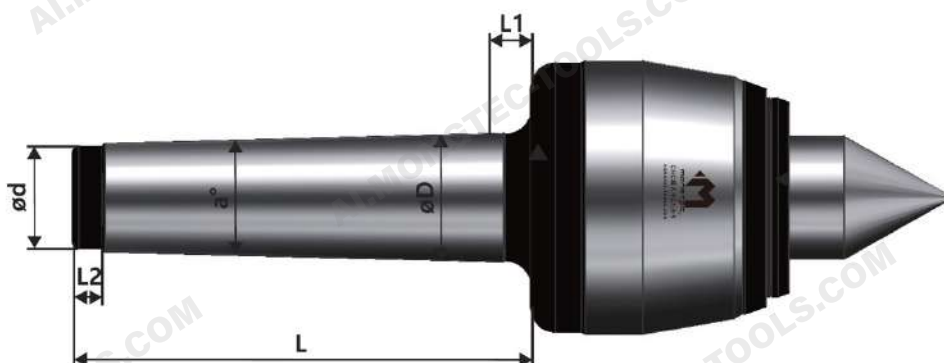


Dimension

- Morse taper Cleaner

SIZE	Article number
MT-1	1002001
MT-2	2002001
MT-3	3002001
MT-4	4002001
MT-5	5002001
MT-6	6002001

Technical data Morse Taper



Dimension

Morse Taper	Dimension						
	α° (Taper Angle)		ΦD° (Gauge Line)	Φd	L	L1	L2
MT0	2°49' 24.7802"	2.823 550 06°	Φ9.045	6	53	3	4
MT1	2°51' 26.9283"	2.857 480 08°	Φ12.065	9	57	3.5	4
MT2	2°51' 40.7960"	2.861 332 23°	Φ17.780	14	68	6	4
MT3	2°52' 31.4463"	2.875 401 76°	Φ23.825	19	85	6	5
MT4	2°58' 30.4217"	2.975 117 13°	Φ31.267	25	108	8	7
MT5	3° 0' 52.3956"	3.014 554 34°	Φ4.399	35	136	8	7
MT6	2°59' 11.7258"	2.986 590 50°	Φ63.348	51	189	10	10
MT7	2°58' 56.7514"	2.982 430 93°	Φ83.058	67	260	12	12



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