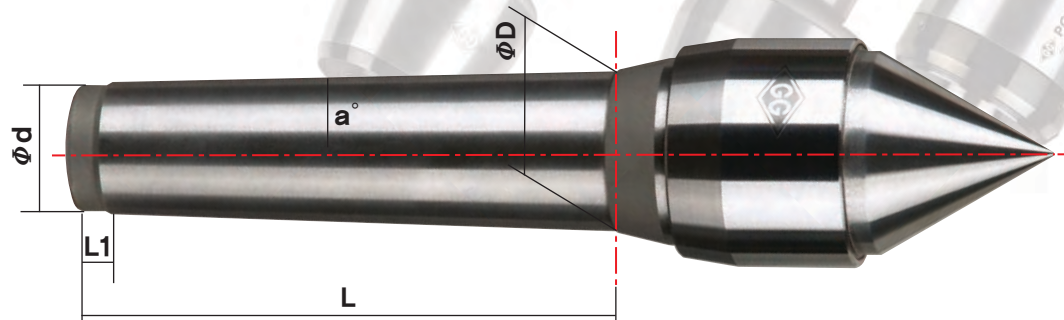




Morse Taper

CNC HIGH SPEED LIVE CENTERS



Dimension

Unit : mm

Morse Taper(MT)	ϕD (Gauge line)	ϕd	a°	L	L1
2	$\phi 17.780$	14	1 ° 25'50"	64	4
3	$\phi 23.825$	19	1 ° 26'16"	79	7
4	$\phi 31.267$	25	1 ° 29'15"	100	9
5	$\phi 44.399$	35	1 ° 30'26"	128	9
6	$\phi 63.348$	51	1 ° 29'36"	179	12
7	$\phi 83.058$	65	1 ° 29'22"	248	12

Special Type



POINTTECH offer the special shape of live or dead-center internationally. Head company's technical design team will promptly contact with end-user. And we offer you the drawing includes customer's requirements. POINTTECH's special model guarantee Quality, Fast delivery, Reasonable price.

Feel free to contact by e-mail 'point@pointtec.com'



Brown & Sharpe, Jarno and Straight Shanks Available

CNC HIGH SPEED LIVE CENTERS



- BN-TYPE / 6
- BNC-TYPE / 7
- BNL30-TYPE / 8
- BNL30A-TYPE / 9

DRAW-OFF NUT LIVE CENTERS



- BNN-TYPE / 10
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HIGH SPEED LIVE CENTERS



- BNH-TYPE / 12
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- BHS-TYPE / 20
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HEAVY DUTY LIVE CENTERS



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60 BULL HEAD LIVE CENTERS


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VERY HEAVY DUTY LIVE CENTER

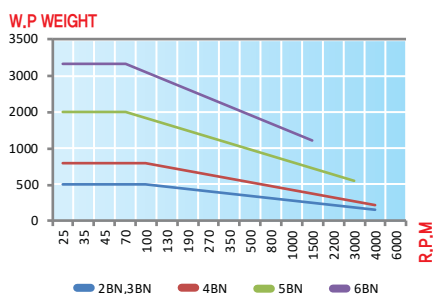

HS-TYPE / 42
HSN-TYPE / 43

BN-TYPE

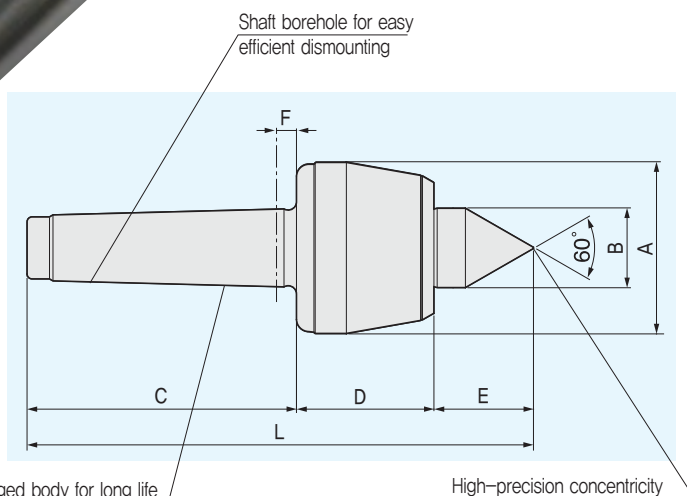


FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathes.
- Heat-treated point to HRc 60±2.
- High performance lip seal and deflected shaft design protects bearing space(Double Angular Contact bearing) from invasion by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.



BN type technical data



Dimension

01	1	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
011002	2	50	25	68	43.5	29.5	6	141	500	5,000	0.7	0.003
011003	3	50	25	85	43.5	29.5	6	158	500	5,000	0.8	0.003
011004	4	69	32	108	55	40	8	203	800	3,800	1.85	0.003
011005	5	88	40	136	70	50.5	8	256.3	2,000	3,000	4.2	0.003
011006	6	105	50	189	81.5	57.5	10	328	3,500	2,800	8.7	0.005

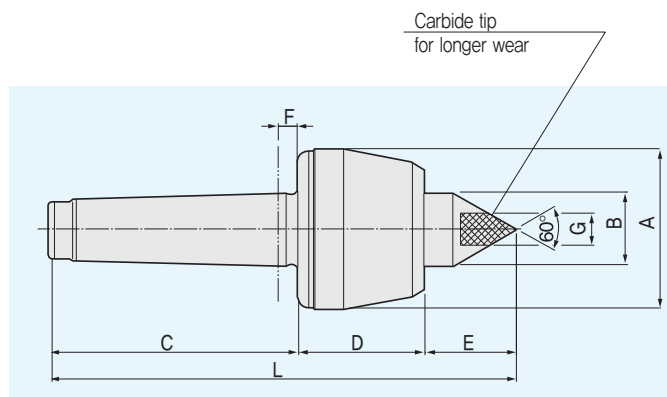
Unit : mm, kg

BNC-TYPE



FEATURES ;

- Accuracy guaranteed to 0,003mm TIR (0,0001").
- Excellent for engine lathes and CNC lathes.
- Carbide point to HRa 90±5.
- High performance lip seal and deflected shaft design protects bearing space(Double Angular Contact bearing) from invasion by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.



Dimension

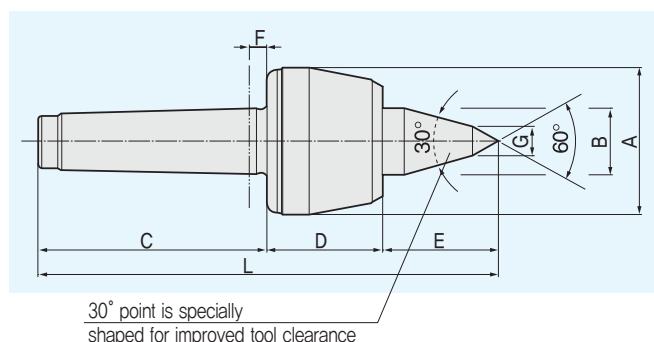
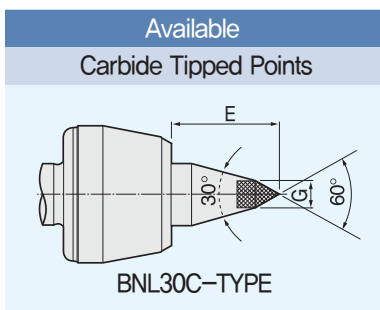
01	2	0	0	MT									
					Unit : mm, kg								
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
012002	2	50	25	68	43.5	29.5	6	10	141	500	5,000	0.7	0.003
012003	3	50	25	85	43.5	29.5	6	10	158	500	5,000	0.8	0.003
012004	4	69	32	108	55	40	8	14	203	800	3,800	1.85	0.003
012005	5	88	40	136	70	50.5	8	18	256.3	2,000	3,000	4.2	0.003
012006	6	105	50	189	81.5	57.5	10	30	328	3,500	2,800	8.7	0.005

BNL30-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathes.
- Heat-treated point to HRc 60±2.
- High performance lip seal and deflected shaft design protects bearing space(Double Angular Contact bearing) from invasion by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.



Dimension

01	3	0	0	MT									
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
013002 (014002)	2	50	25	68	43.5	40	6	10	151.5	500	5,000	0.7	0.003
013003 (014003)	3	50	25	85	43.5	45	6	12	175.5	500	5,000	0.8	0.003
013004 (014004)	4	69	32	108	55	53	8	14	216	500	3,800	1.9	0.003
013005 (014005)	5	88	40	136	70	65	8	16	271	1,500	3,000	4.4	0.003
013006 (014006)	6	105	50	189	81.5	77.5	10	18	348	2,500	2,800	8.7	0.005

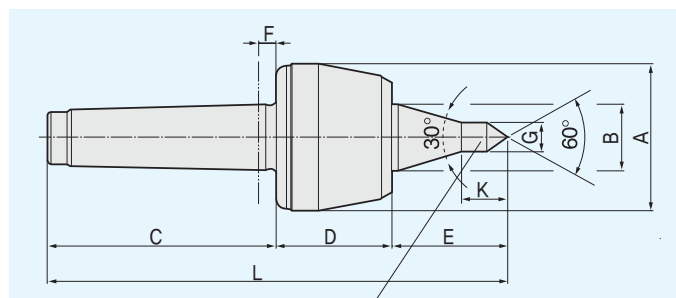
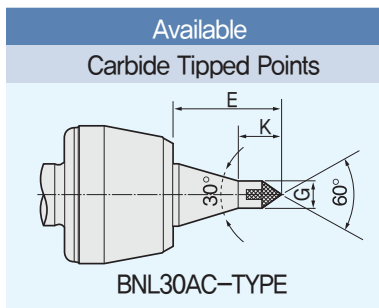
※ (MODEL NO): Carbide Tip type.

BNL30A-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathes.
- Heat-treated point to HRC 60±2.
- High performance lip seal and deflected shaft design protects bearing space(Double Angular Contact bearing) from invasion by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.



Elongated center point is specially shaped for improved tool clearance(Diagram)

Dimension

01	5	0	0	MT										
					Unit : mm, kg									
MODEL	MT	A	B	C	D	E	F	G	K	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
015002 (016002)	2	50	25	68	43.5	50	6	10	19	161.5	500	5,000	0.7	0.003
015003 (016003)	3	50	25	85	43.5	50	6	10	19	178.5	500	5,000	0.8	0.003
015004 (016004)	4	69	32	108	55	63.5	8	12.5	23.5	226.5	500	3,800	1.9	0.003
015005 (016005)	5	88	40	136	70	80	8	12.5	23.5	286	1,500	3,000	4.4	0.003
015006 (016006)	6	105	50	189	81.5	105	10	14	30	375.5	2,500	2,800	8.7	0.005

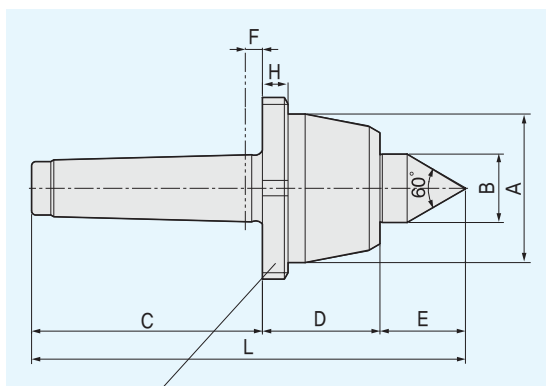
※(MODEL NO):Carbide Tip type.

BNN-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathes.
- Heat-treated point to HRc 60±2.
- High performance lip seal and deflected shaft design protects bearing space (Double Angular Contact bearing) from invasion by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.
- Draw-off nut type. (Help to easy release from tail-stock)



■ Dimension

02	1	0	0	MT
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Unit : mm, kg

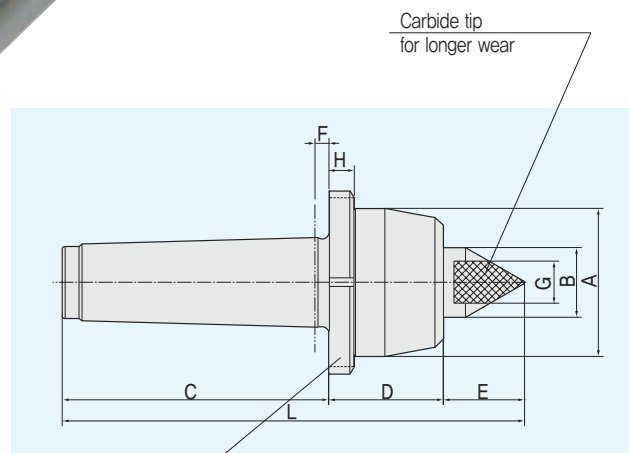
MODEL	MT	A	B	C	D	E	F	H	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out	AN NUT NO.
021002	2	50	25	68	43.5	29.5	6	10	141	500	5,000	1	0.003	AN 09
021003	3	50	25	85	43.5	29.5	6	10	158	500	5,000	1	0.003	AN 09
021004	4	69	32	108	55	40	8	12	203	800	3,800	2.1	0.003	AN 13
021005	5	88	40	136	70	50.5	8	16	256.5	2,000	3,000	5	0.003	AN 17
021006	6	105	50	189	81.5	57.5	10	18	328	3,500	2,800	10.5	0.005	AN 20

BNNC-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathes.
- Carbide point to HRA 90±5.
- High performance lip seal and deflected shaft design protects bearing space(Double Angular Contact bearing) from invasion by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.
- Draw-off nut type. (Help to easy release from tail-stock)



Dimension

02	2	0	0	MT												Unit : mm, kg		
MODEL	MT	A	B	C	D	E	F	H	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out	AN NUT NO.			
022002	2	50	25	68	43,5	29,5	6	10	10	141	500	5,000	1	0,003	AN 09			
022003	3	50	25	85	43,5	29,5	6	10	10	158	500	5,000	1	0,003	AN 09			
022004	4	69	32	108	55	40	8	12	14	203	800	3,800	2,1	0,003	AN 13			
022005	5	88	40	136	70	50,5	8	16	18	256,5	2,000	3,000	5	0,003	AN 17			
022006	6	105	50	189	81,5	57,5	10	18	30	328	3,500	2,800	10,5	0,005	AN 20			

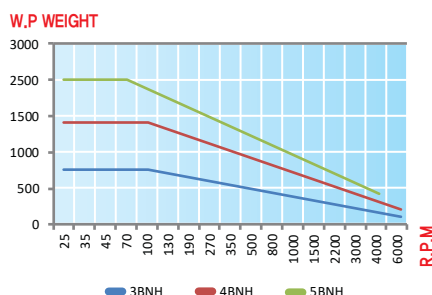
Unit : mm, kg

BNH-TYPE

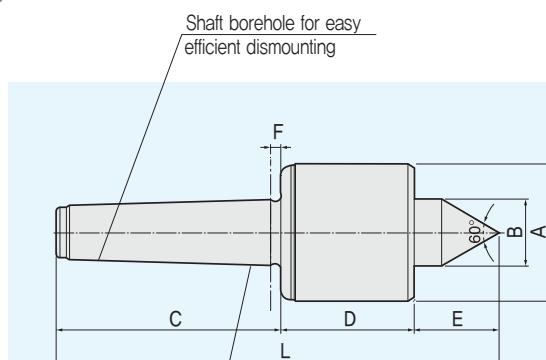


FEATURES ;

- Accuracy guaranteed to 0.002mm TIR(0.0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRc 60±2.
- Two angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life.



BNH type technical data



Drop-forged body for long life
HRc. 50±2

Dimension

03	1	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
031003	3	50	22	85	51.5	26	4.5	162.5	750	6,000	1.8	0.002
031004	4	66	32	108	64	41	5.3	213	1,400	6,000	2.2	0.002
031005	5	80	40	136	70	41	6.3	247	2,500	5,000	5.2	0.002

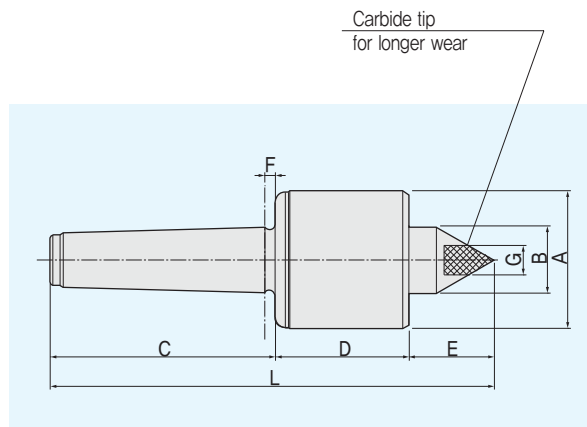
Unit : mm, kg

BNHC-TYPE



FEATURES ;

- Accuracy guaranteed to 0,002mm TIR(0,0001").
- Excellent for grinders and CNC lathes.
- Carbide point to HRa 90±5.
- Two angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life.



Dimension

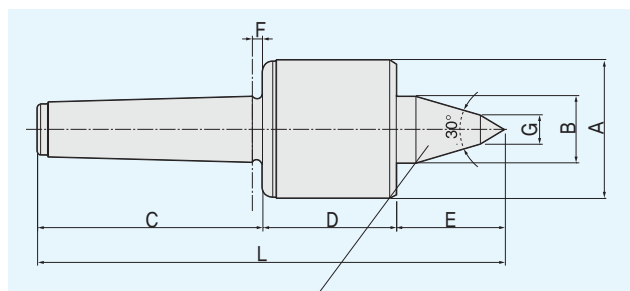
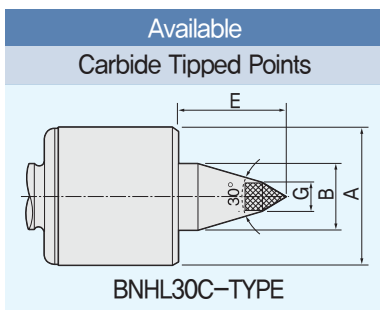
03	2	0	0	MT									
					Unit : mm, kg								
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
032003	3	50	22	85	51.5	26	4.5	10	162.5	750	6,000	1.8	0.002
032004	4	66	32	108	64	41	5.3	14	213	1,400	6,000	2.2	0.002
032005	5	80	40	136	70	41	6.3	18	247	2,500	5,000	5.2	0.002

BNHL30-TYPE



FEATURES ;

- Accuracy guaranteed to 0.002mm TIR(0.0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRC 60±2.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life.



30° point is specially shaped for improved tool clearance

Dimension

03	3	0	0	MT									
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
033003 (034003)	3	50	22	85	51.5	35	4.5	12	171.5	600	6,000	1.9	0.002
033004 (034004)	4	66	32	108	64	53	5.3	14	225	1,100	6,000	2.2	0.002
033005 (034005)	5	80	40	136	70	65	6.3	16	271	2,000	5,000	5.2	0.002

※ (MODEL NO): Carbide Tip type.

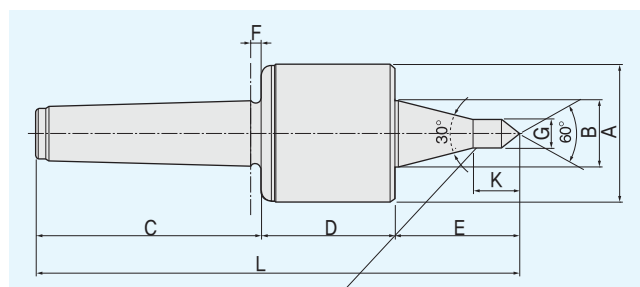
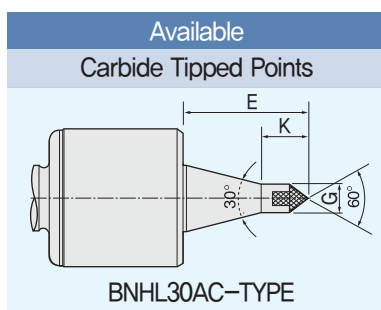
Unit : mm, kg

BNHL30A-TYPE



FEATURES ;

- Accuracy guaranteed to 0,002mm TIR(0,0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRC 60±2.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life.



Elongated center point is specially shaped for improved tool clearance(Diagram)

Dimension

03	5	0	0	MT										
					Unit : mm, kg									
MODEL	MT	A	B	C	D	E	F	G	K	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
035003 (036003)	3	50	22	85	51.5	50	4.5	10	19	181.5	500	6,000	1.9	0,002
035004 (036004)	4	66	32	108	64	63.5	5.3	12.5	23.5	235.5	900	6,000	2.2	0,002
035005 (036005)	5	80	40	136	70	80	6.3	12.5	23.5	286	1,700	5,000	5.2	0,002

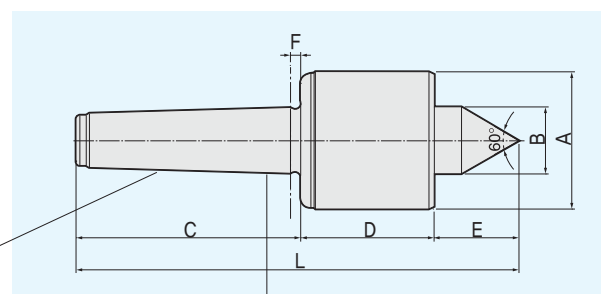
※(MODEL NO):Carbide Tip type.

BS-TYPE



FEATURES ;

- Accuracy guaranteed to 0,002 mm TIR(0,0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRC 60±2.
- Two angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life.



Shaft borehole for easy
efficient dismounting

Drop-forged body for long life
HRC. 50±2

■ Dimension

16	1	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
161003	3	50	20	85	58	23	4,5	166	750	6,000	1,9	0,002
161004	4	66	30	108	71	35	5,3	214	1,400	6,000	2,4	0,002
161005	5	80	35	136	76	38	6,3	250	2,500	5,000	5,3	0,002

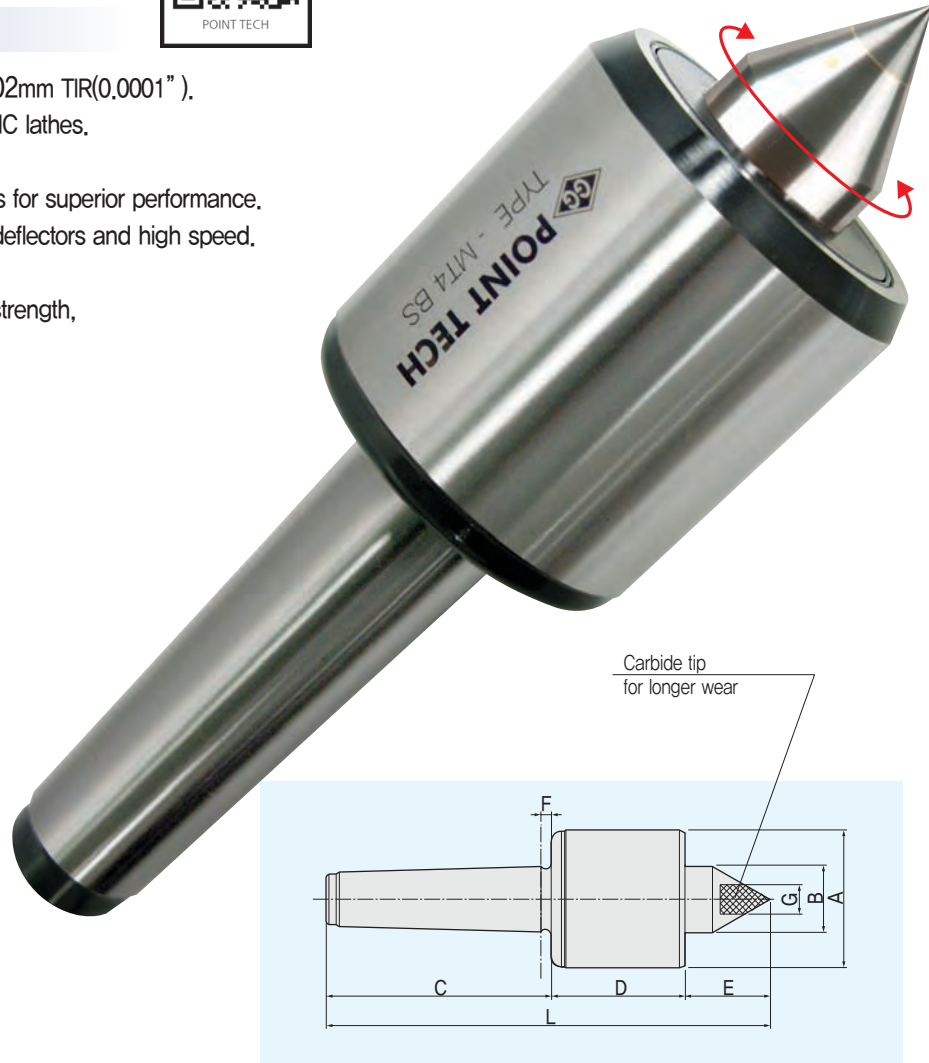
Unit : mm, kg

BSC-TYPE



FEATURES ;

- Accuracy guaranteed to 0,002mm TIR(0,0001").
- Excellent for grinders and CNC lathes.
- Carbide point to HRa 90±5.
- Two angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life.



Dimension

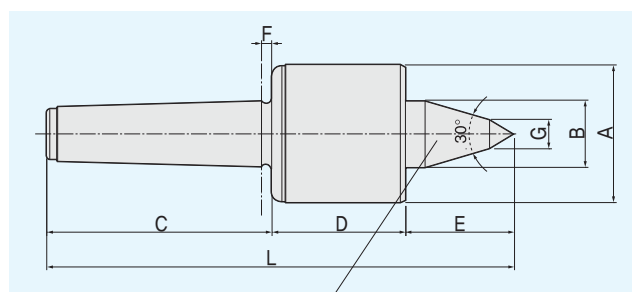
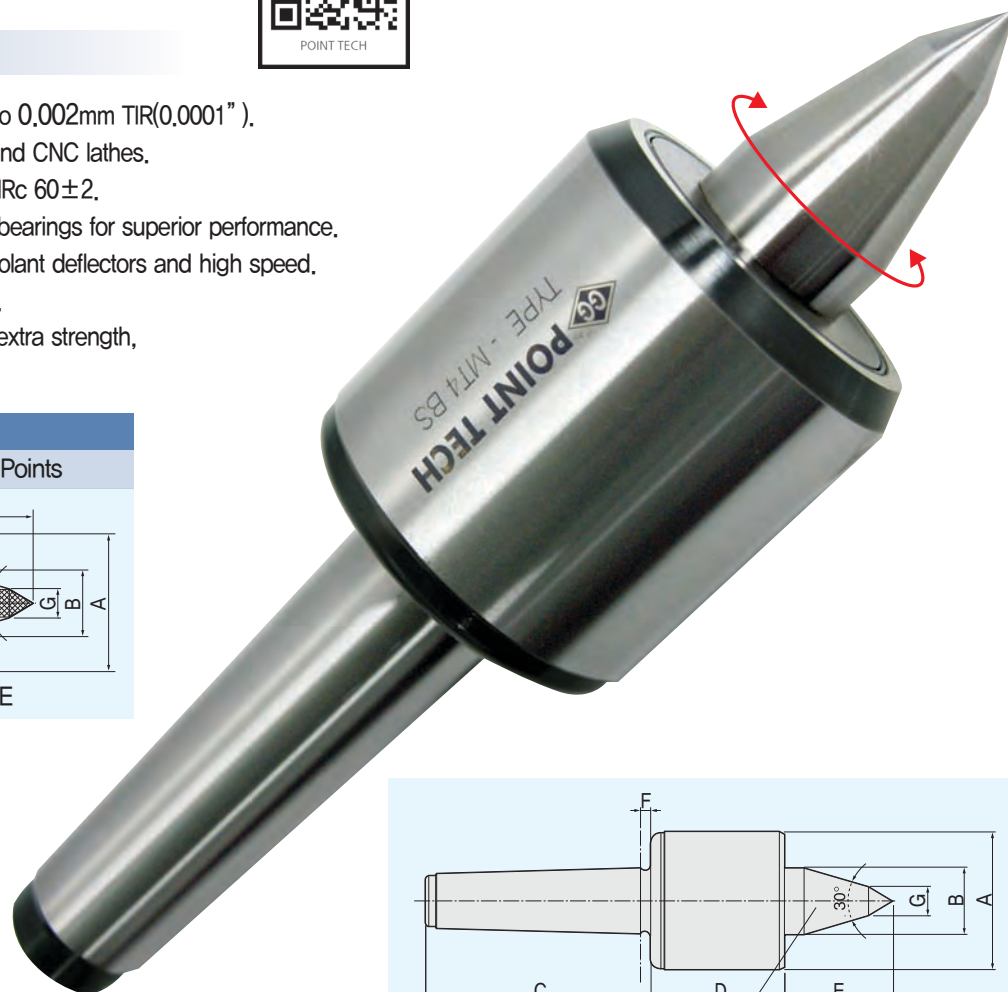
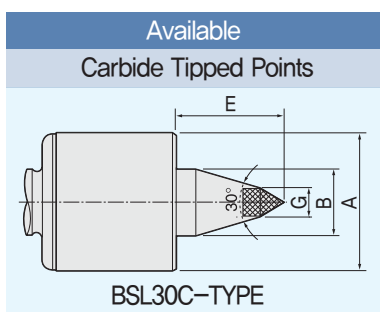
16	2	0	0	MT									
					Unit : mm, kg								
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
162003	3	50	22	85	58	23	4,5	10	166	750	6,000	1,9	0,002
162004	4	66	30	108	71	35	5,3	14	214	1,400	6,000	2,4	0,002
162005	5	80	35	136	76	38	6,3	18	250	2,500	5,000	5,3	0,002

BSL30-TYPE



FEATURES ;

- Accuracy guaranteed to 0,002mm TIR(0,0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRc 60±2.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life.



30° point is specially shaped for improved tool clearance

■ Dimension

16	3	0	0	MT									
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
163003 (164003)	3	50	20	85	58	31	4,5	10	174	750	6,000	1.9	0,002
163004 (164004)	4	66	30	108	71	51	5,3	14	230	1,400	6,000	2.4	0,002
163005 (164005)	5	80	35	136	76	53	6,3	18	265	2,500	5,000	5.3	0,002

Unit : mm, kg

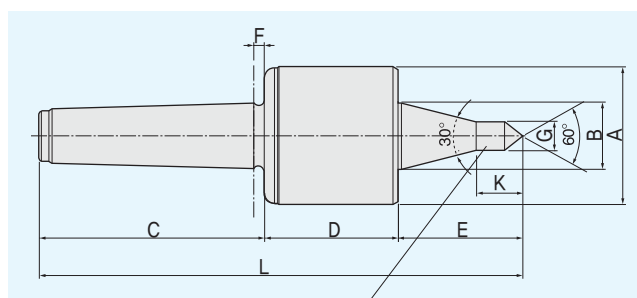
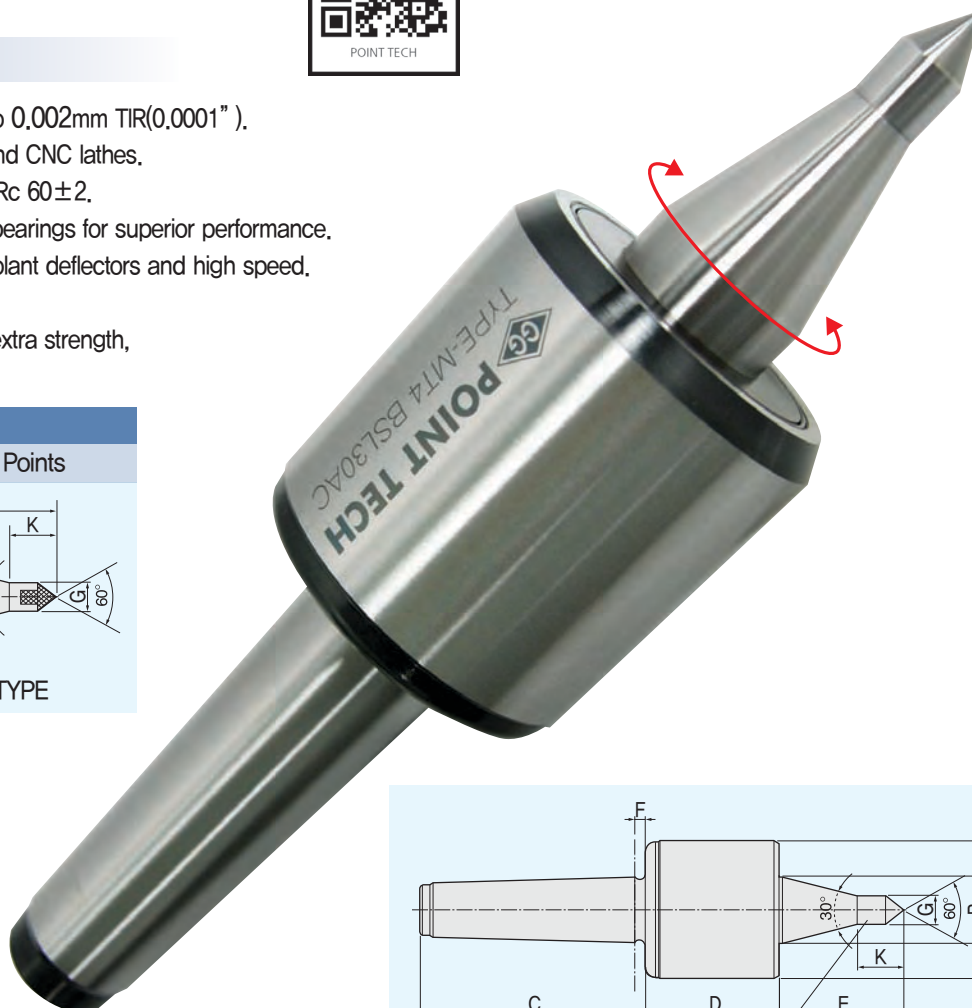
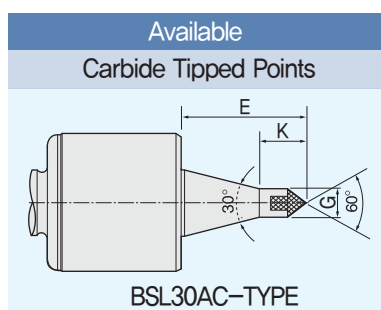
※ (MODEL NO): Carbide Tip type.

BSL30A-TYPE



FEATURES ;

- Accuracy guaranteed to 0.002mm TIR(0.0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRC 60±2.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 6,000.
- Heat-treated body for extra strength, rigidity and long life



Elongated center point is specially shaped for improved tool clearance(Diagram)

Dimension

16	5	0	0	MT										
MODEL	MT	A	B	C	D	E	F	G	K	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
165003 (166003)	3	50	20	85	58	37	4.5	10	15	180	750	6,000	1.9	0.002
165004 (166004)	4	66	30	108	71	63.5	5.3	12.5	23	242.5	1,400	6,000	2.4	0.002
165005 (166005)	5	80	35	136	76	70	6.3	12.5	23.5	282	2,500	5,000	5.3	0.002

Unit : mm, kg

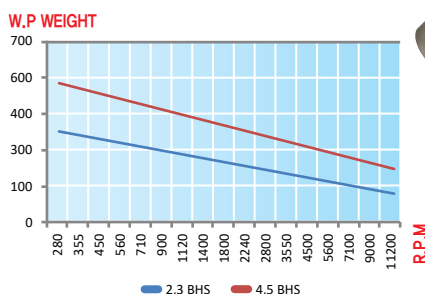
※(MODEL NO):Carbide Tip type.

BHS-TYPE

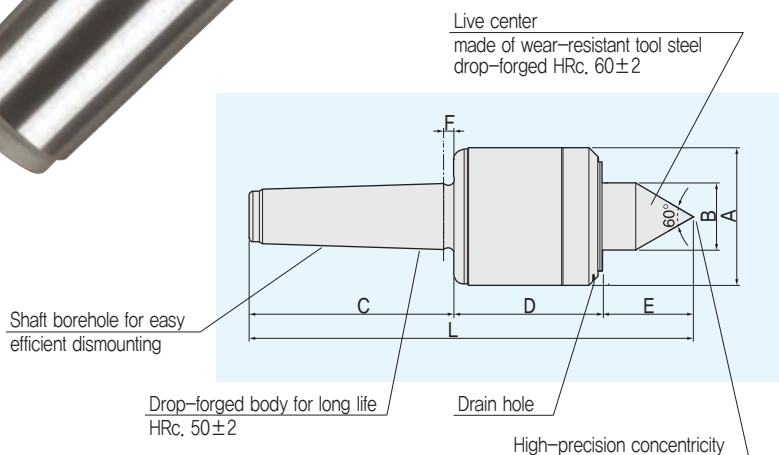


FEATURES ;

- Accuracy guaranteed to 0,002mm TIR(0,0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRC 60±2.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 12,000.
- Heat-treated body for extra strength, rigidity and long life.
- Drain hole have to be located on bottom side.



BHS type technical data



Dimension

04	1	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
041002	2	50	20	68	54	26	4	148	360	15,000	1,5	0,002
041003	3	50	20	85	54	26	4,5	165	360	15,000	1,8	0,002
041004	4	70	30	108	75	37	5,3	220	560	12,000	2,2	0,002
041005	5	70	30	136	75	37	6,3	248	560	12,000	5,2	0,002

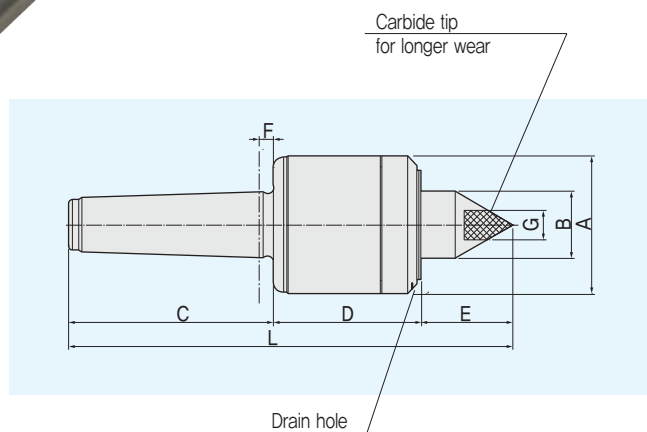
Unit : mm, kg

BHSC-TYPE



FEATURES ;

- Accuracy guaranteed to 0,002mm TIR(0,0001").
- Excellent for grinders and CNC lathes.
- Carbide point to HRa 90±5.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- High RPM, up to 12,000.
- Heat-treated body for extra strength, rigidity and long life.
- Drain hole have to be located on buttom side.



Dimension

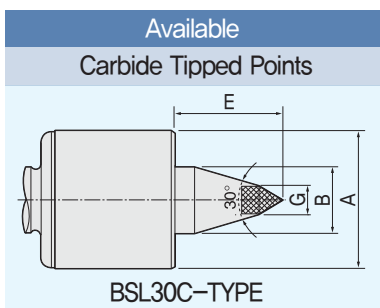
04	2	0	0	MT									
					Unit : mm, kg								
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
042002	2	50	20	68	54	26	4	10	148	360	15,000	1,5	0,002
042003	3	50	20	85	54	26	4,5	10	165	360	15,000	1,8	0,002
042004	4	70	30	108	75	37	5,3	14	220	560	12,000	2,2	0,002
042005	5	70	30	136	75	37	6,3	18	248	560	12,000	5,2	0,002

BHSL30-TYPE

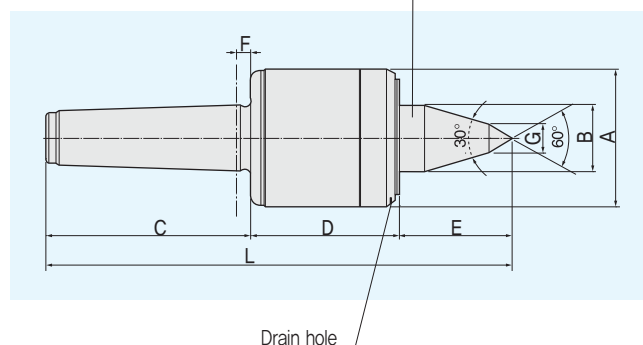


FEATURES ;

- Accuracy guaranteed to 0.002mm TIR(0.0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRC 60±2.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflections and high speed.
- High RPM, up to 12,000.
- Heat-treated body for extra strength, rigidity and long life.
- Drain hole have to be located on bottom side.



30° point is specially shaped for improved tool clearance



Dimension

04	2	0	0	MT									
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
043002 (044002)	2	50	20	68	54	35	4	10	157	280	15,000	1.8	0.002
043003 (044003)	3	50	20	85	54	35	4.5	12	174	280	15,000	1.8	0.002
043004 (044004)	4	70	30	108	75	53	5.3	14	236	450	12,000	2.2	0.002
043005 (044005)	5	70	30	136	75	53	6.3	18	264	450	12,000	5.2	0.002

Unit : mm, kg

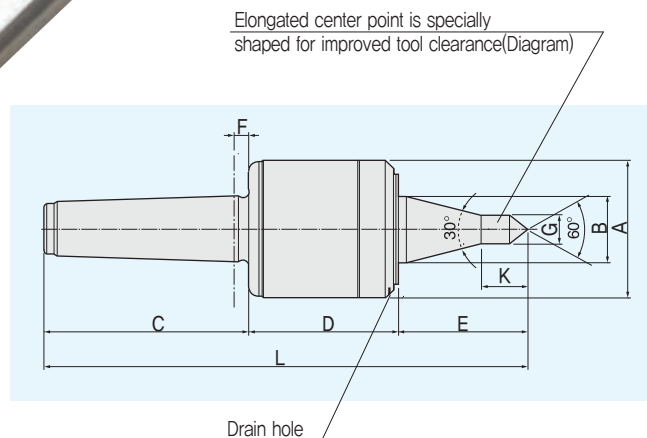
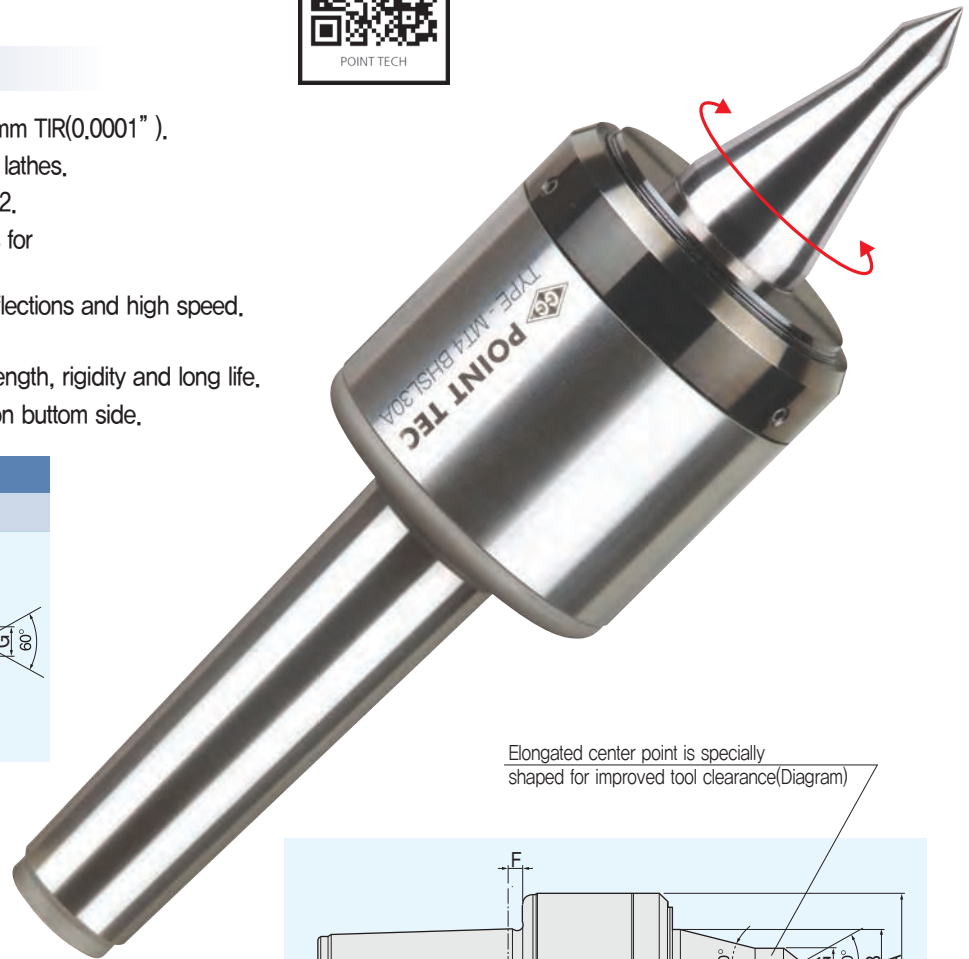
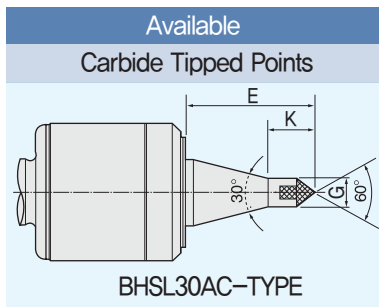
※ (MODEL NO): Carbide Tip type.

BHSL30A-TYPE



FEATURES ;

- Accuracy guaranteed to 0.002mm TIR(0.0001").
- Excellent for grinders and CNC lathes.
- Heat-treated point to HRC 60±2.
- Three angular contact bearings for superior performance.
- Anti-friction seal for coolant deflections and high speed.
- High RPM, up to 12,000.
- Heat-treated body for extra strength, rigidity and long life.
- Drain hole have to be located on bottom side.



Dimension

04	5	0	0	MT										
					Unit : mm, kg									
MODEL	MT	A	B	C	D	E	F	G	K	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
045002 (046002)	2	50	20	68	54	45	4	10	19	167	250	15,000	1.8	0.002
045003 (046003)	3	50	20	85	54	45	4.5	10	19	184	250	15,000	1.8	0.002
045004 (046004)	4	70	30	108	75	63.5	5.3	12.5	23.5	246.5	390	12,000	2.2	0.002
045005 (046005)	5	70	30	136	75	63.5	6.3	12.5	23.5	274.5	390	12,000	5.2	0.002

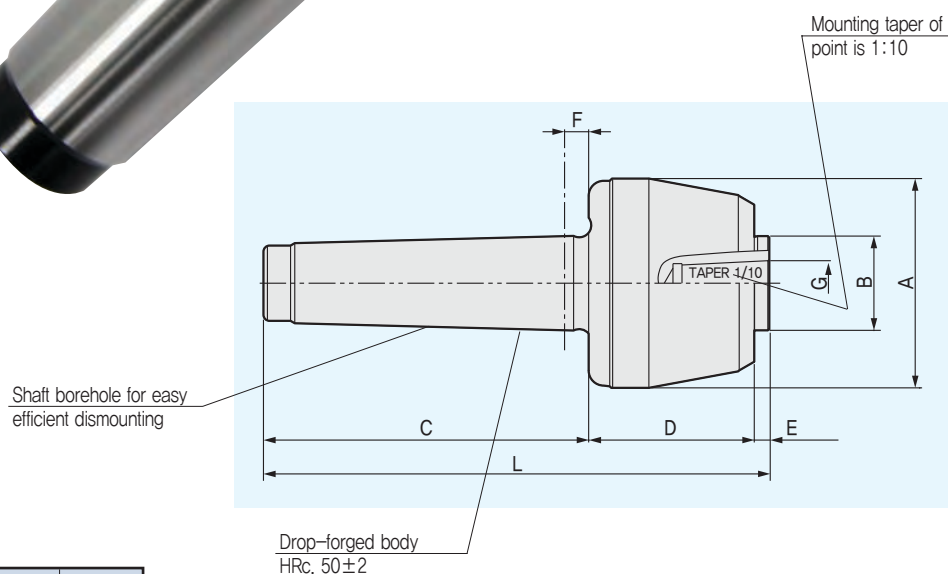
※(MODEL NO):Carbide Tip type.

BNI-TYPE



FEATURES ;

- Accuracy for center inner diameter guaranteed to 0.003.
- Accuracy after point locking guaranteed to 0.005.
- Excellent for engine lathes and CNC lathes.
- Heat-treated point to HRC 60±2.
- The interchangeable center points are standard point, 75° point, 90° point, extra-long point, pipe point, and female point.
- Because of the insert centers, the admissible workpiece weight is reduced.

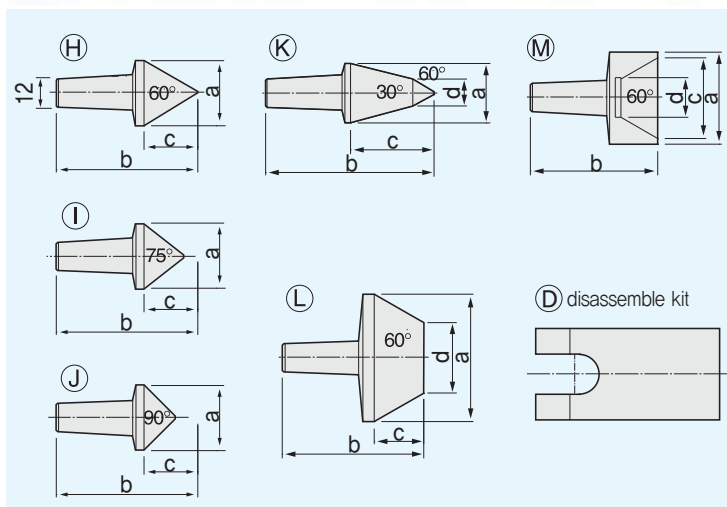


Dimension

05	1	0	0	MT									
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
051002	2	50	25	68	43.5	5	6	12	116.5	80	5,000	0.6	0.005
051003	3	50	25	85	43.5	5	6	12	133.5	150	5,000	0.8	0.005
051004	4	69	32	108	55	5	8	15	168	250	3,800	1.7	0.005
051005	5	88	40	136	70	6	8	22	212	650	3,000	3.9	0.005

※ Order example: '051004 Body' = MT4 BNI body only(without any insert shaft)
 '051004 SET' = MT4 BNI body and 6 insert shaft included

BNI-POINT



※ Set of BNI includes 6 type of insert shaft and disassemble kit

Dimension

Unit : mm, kg

MODEL	MT		H	I	J	K	L	M
051002	2	a	24	24	24	18	45	22
		b	51.5	46.5	43	54	51	60
		c	20	15	11.5	25	17.5	18
		d				8	25	6.5
051003	3	a	24	24	24	18	45	22
		b	51.5	46.5	43	54	51	60
		c	20	15	11.5	25	17.5	18
		d				8	25	6.5
051004	4	a	28	28	28	26	55	40
		b	61.5	55.5	51.5	73	61.5	55
		c	23.5	17.5	13.5	36	21.5	35
		d				12	30.2	16.5
051005	5	a	38	38	38	32	70	52
		b	78	70	64	90	74	65
		c	32	24	18.5	46	20	45
		d				13	40	25.4

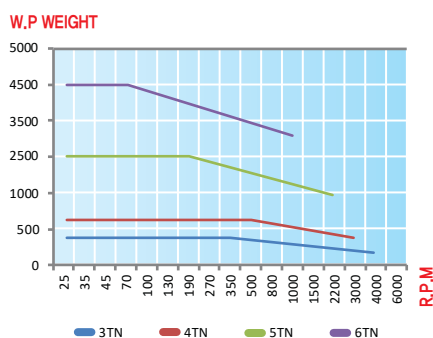
※ Order example: '051004H' = MT4 BNI insert shaft type: H

TN-TYPE

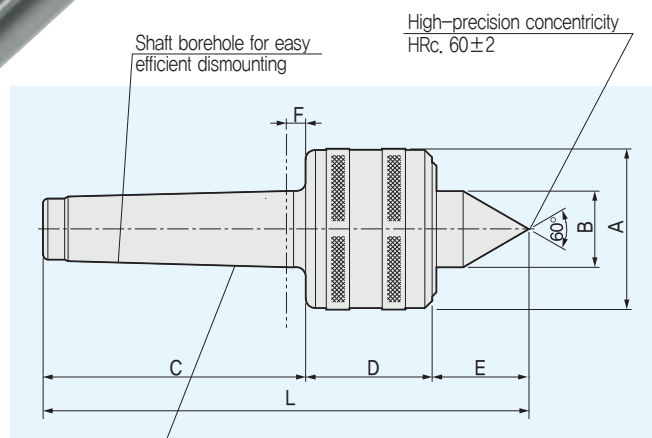


FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathes.
- Heat-treated point to HRC 60±2.
- Heavy duty type (The introduction of taper roller bearing assembly)
- Easily pre-load bearings.



TN type technical data



Dimension

06	1	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
061003	3	51	25	85	44	28	6	157	400	4,000	0.8	0.003
061004	4	66	32	108	52	40	8	200	650	3,000	1.8	0.003
061005	5	93	40	136	70	43.7	8	249.7	2,500	2,000	4.3	0.003
061006	6	127	58.5	189	92.7	61.5	10	343.3	4,500	1,000	12.5	0.005
061006H	6	168	80	191	120	84	10	395	8,000	800	20	0.005
061007	7	177	78.5	260	110	80	12	450	5,000	500	32	0.010
061008	7	177	78.5	260	124	80	12	464	10,000	500	34	0.010

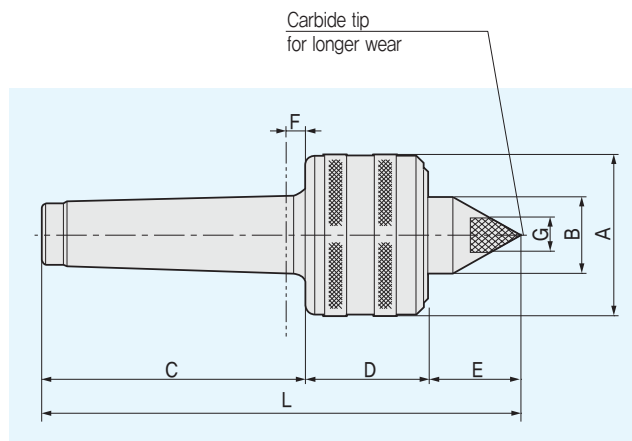
Unit : mm, kg

TNC-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathes.
- Carbide point to H_{Ra} 90±5.
- Heavy duty type (The introduction of taper roller bearing assembly)
- Easily pre-load bearings.



Dimension

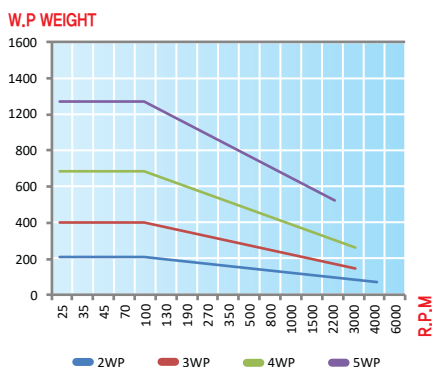
06	2	0	0	MT									
					Unit : mm, kg								
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
062003	3	51	25	85	44	28	6	10	157	400	4,000	0.8	0.003
062004	4	66	32	108	52	40	8	14	200	650	3,000	1.8	0.003
062005	5	93	40	136	70	43.7	8	18	249.7	2,500	2,000	4.3	0.003
062006	6	127	58.5	189	92.7	61.5	10	30	343.3	4,500	1,000	12.5	0.005

WP-TYPE



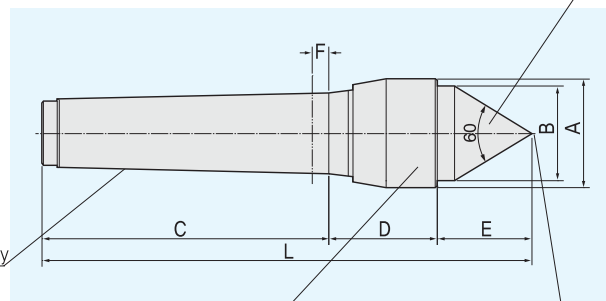
FEATURES ;

- Accuracy guaranteed to 0,003mm TIR (0,0001").
- Excellent for CNC lathe and grinding machine and inspection machine.
- Center point and body are through-hardened to HRC 60±2.
- Small head diameter reduces interference problem between tool holders and turning tools.
- Water proof type.



WP type technical data

Shaft borehole for easy efficient dismantling HRC. 50±2.



Small head for improved tool clearance

High-precision concentricity

Live center made of wear-resistant tool steel drop-forged HRC. 60±2

Dimension

07	1	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
071002	2	27.7	23.8	69	28	23	4.5	120	200	4,000	0.3	0.003
071003	3	32.3	28	85	32	28	5	145	400	3,000	0.4	0.003
071004	4	45	40	108	48	38	6	194	700	3,000	1.1	0.003
071005	5	62	54	136	54	51	8	241	1300	2,000	2.7	0.003

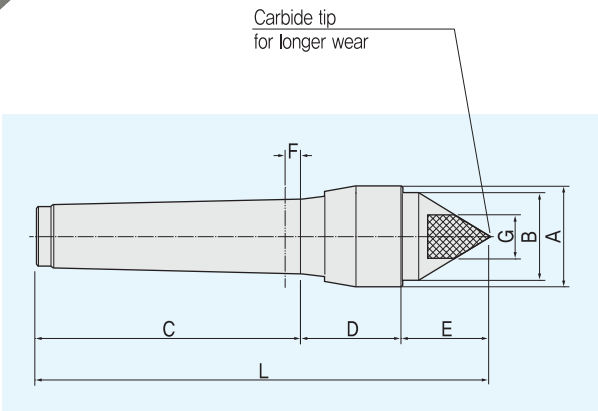
Unit : mm, kg

WPC-TYPE



FEATURES ;

- Accuracy guaranteed to 0,003mm TIR (0,0001").
- Excellent for CNC lathe and grinding machine and inspection machine.
- Carbide point to HRa 90±5.
- Small head diameter reduces interference problem between tool holders and turning tools.
- Water proof type.



Dimension

07	2	0	0	MT									
					Unit : mm, kg								
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R,P,M	Weight	Max, Run Out
072002	2	27,7	23,8	69	28	23	4,5	10	120	200	4,000	0,3	0,003
072003	3	32,3	28	85	32	28	5	10	145	400	3,000	0,4	0,003
072004	4	45	40	108	48	38	6	14	194	700	3,000	1,1	0,003
072005	5	62	54	136	54	51	8	18	241	1,300	2,000	2,72	0,003

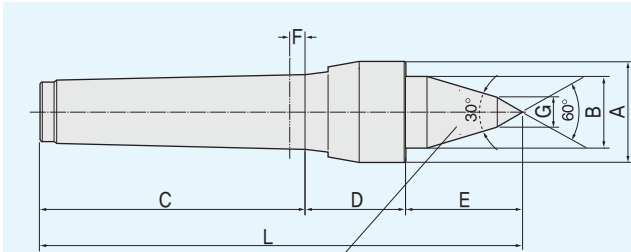
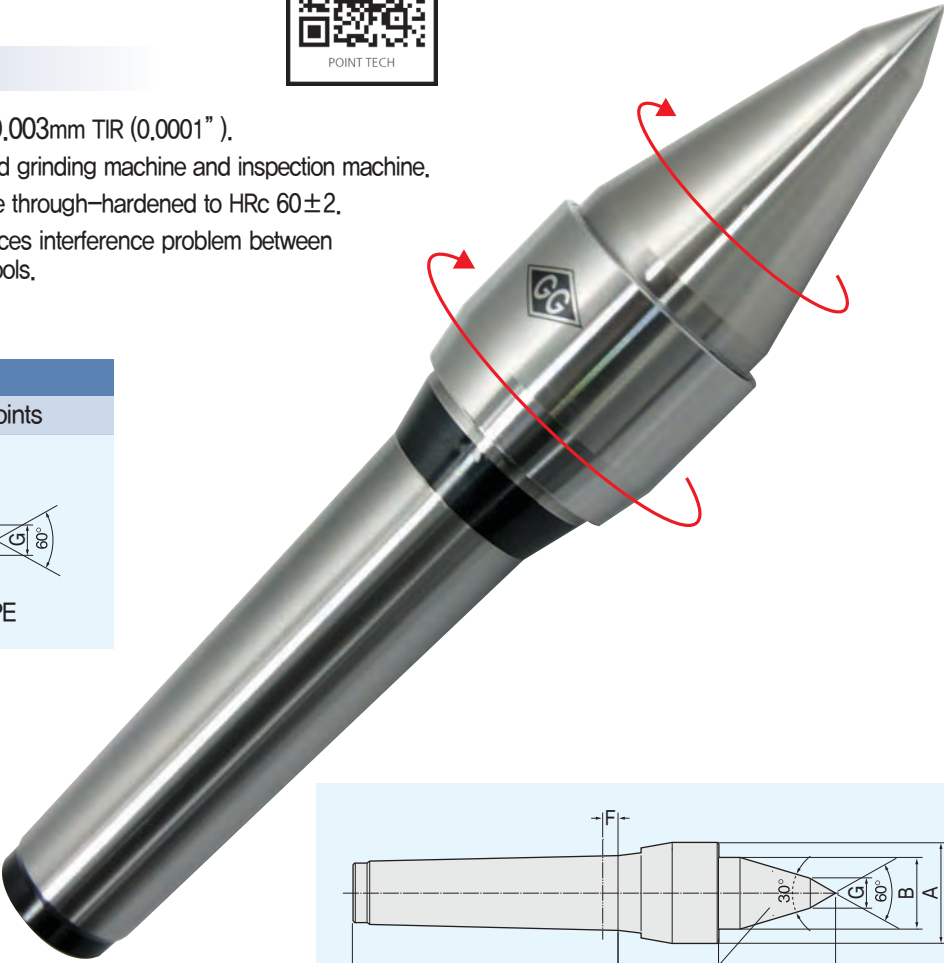
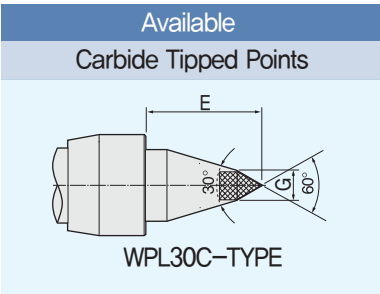


WPL30-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for CNC lathe and grinding machine and inspection machine.
- Center point and body are through-hardened to HRC 60±2.
- Small head diameter reduces interference problem between tool holders and turning tools.
- Water proof type.



30° point is specially shaped for improved tool clearance

Dimension

07	3	0	0	MT									
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
073002 (074002)	2	27.7	23.8	69	28	35	4.5	12	132	120	4,000	0.3	0.003
073003 (074003)	3	32.3	28	85	32	45	5	12	162	320	3,000	0.5	0.003
073004 (074004)	4	45	40	108	48	65	6	14	221	560	3,000	1.2	0.003
073005 (074005)	5	62	54	136	54	90	8	16	280	1,000	2,000	3.2	0.003

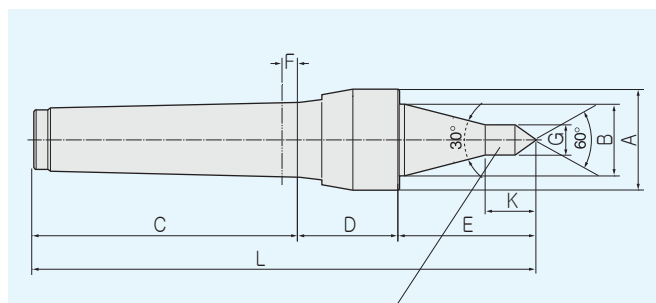
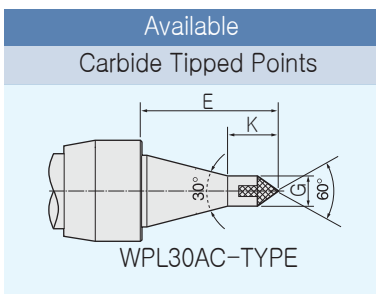
※ (MODEL NO): Carbide Tip type.

WPL30A-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for CNC lathe and grinding machine and inspection machine.
- Center point and body are through-hardened to HRC 60±2.
- Small head diameter reduces interference problem between tool holders and turning tools.
- Water proof type.



Elongated center point is specially shaped for improved tool clearance(Diagram)

Dimension

07	5	0	0	MT										
MODEL	MT	A	B	C	D	E	F	G	K	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
075002 (076002)	2	27.7	23.8	69	28	42	4.5	10	14	139	100	4,000	0.3	0.003
075003 (076003)	3	32.3	28	85	32	50	5	10	14	167	280	3,000	0.5	0.003
075004 (076004)	4	45	40	108	48	80	6	12.5	24	236	500	3,000	1.2	0.003
075005 (076005)	5	62	54	136	54	110	8	12.5	24	300	900	2,000	3.2	0.003

Unit : mm, kg

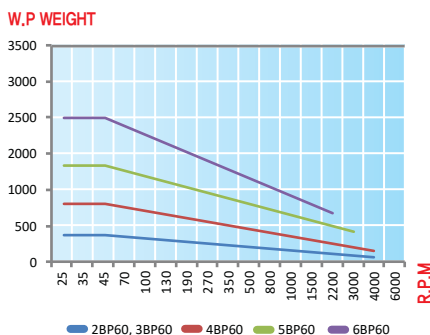
※ (MODEL NO):Carbide Tip type.

BP60-TYPE



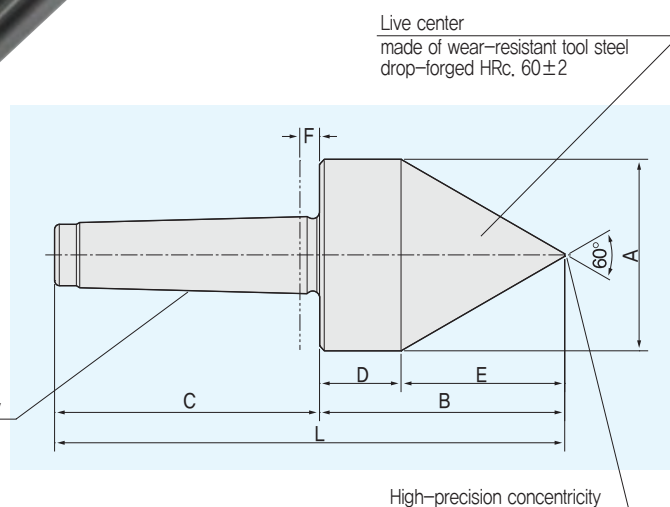
FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for engine lathes and CNC lathe.
- The interior houses a combination of double row angular contact bearing, thrust bearing, and radial ball bearing.
- Used both as a centering taper for hollow bodies and as a center for machining standard work-piece.



BP60 type technical data

Shaft borehole for easy efficient dismounting
HRC. 50±2



Dimension

08	1	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
081002	2	44	66	68	28	38	6	134	400	5,000	1.5	0.003
081003	3	56	78.5	85	30	48.5	6	163.5	400	5,000	1.5	0.003
081004	4	78	100	108	33.3	66.7	8	208	800	4,500	2.3	0.003
081005	5	98	125	136	41	84	8	261	1,600	3,200	5	0.003
081006	6	118	154	189	53	101	10	343	2,500	2,500	11.2	0.005

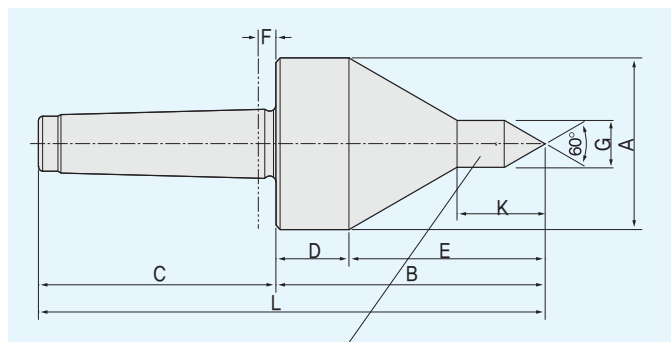
Unit : mm, kg

BP60A-TYPE



FEATURES ;

- Accuracy guaranteed to 0,003mm TIR (0,0001").
- Excellent for engine lathes and CNC lathe.
- The interior houses a combination of double row angular contact bearing, thrust bearing, and radial ball bearing.
- Used both as a centering taper for hollow bodies and as a center for machining standard workpiece.



Dimension

08	5	0	0	MT										
MODEL	MT	A	B	C	D	E	F	K	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
085002	2	44	79	68	32,3	46,7	6	19	12	147	320	5,000	1.0	0,003
085003	3	56	86	85	28,9	57,1	6	19	12	171	320	5,000	1.0	0,003
085004	4	78	103,5	108	26,3	77,2	8	23,5	16	211,5	560	4,500	2.3	0,003
085005	5	98	140	136	41,6	98,4	8	30	19	276	1,200	3,200	5	0,003
085006	6	118	165	189	44,3	120,7	10	35	19	354	2,000	2,500	10	0,005

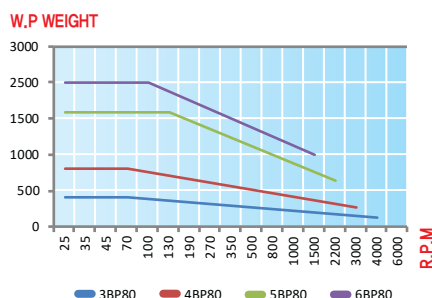
Unit : mm, kg

BP80-TYPE

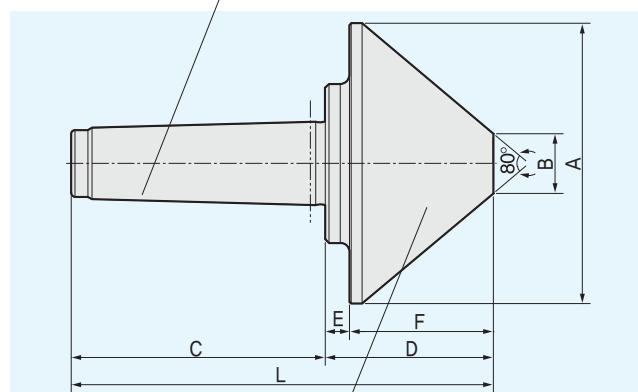


FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for heavy duty lathe applications.
- The interior houses a combination of taper roller bearing, thrust bearing, and high-precision radial ball bearing.
- The design prevents ingress of coolant and chips.
- For pipe work, tube work, and parts with extra-large center holes.



BP80 type technical data



Large size head is available
made of wear-resistant tool steel
drop-forged HRc. 60±2

Dimension

08	3	0	0	MT								
MODEL	MT	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
083003	3	95	20	85	60	10	50	145	400	4,000	2.4	0.003
083004	4	125	29	108	77	13	64	185	800	3,000	3.9	0.003
083005	5	150	32	136	90	13	77	226	1,600	2,000	6.9	0.003
083006	6	200	38	189	120	15	105	309	2,500	1,500	17	0.005

Unit : mm, kg

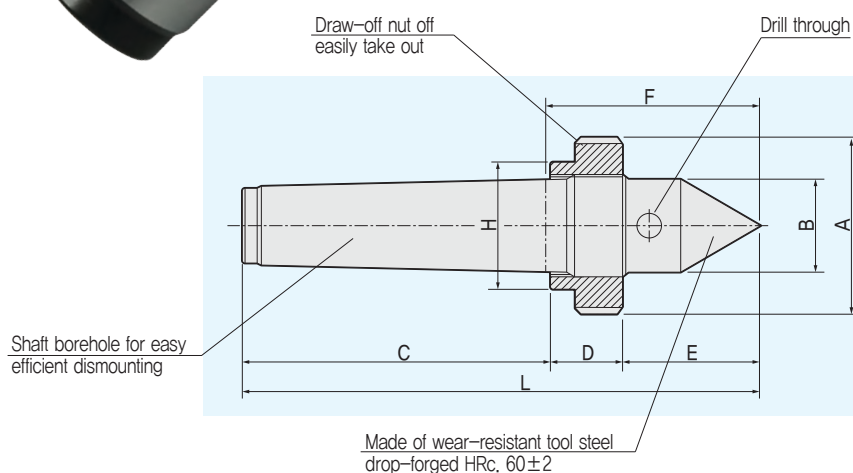
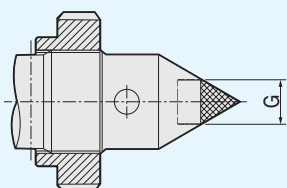
DEAD CENTER



FEATURES ;

- Accuracy guaranteed to 0,002mm TIR (0,0001").
- Through-hardened to HRc 60±2.
- Works on all CNC machines.
- Meets the rigid requirements of CNC turning and Grinding machine.
- Excellent for Built-in tail stock.

Available
Carbide Tipped Points



Dimension

13	1	0	0	MT								Unit : mm, kg
MODEL	MT	A	B	C	D	E	F	H	G	L	Weight	
131003 (132003)	3	50	24	82	16	42	59	40	10	140	0.8	
131004 (132004)	4	60	32	104	24	47	72.5	43	14	175	1.3	
131005 (132005)	5	80	45	131	30	60	93	58	18	221	3.0	
131006 (132006)	6	100	60	187	30	72	107	78	30	289	6.9	

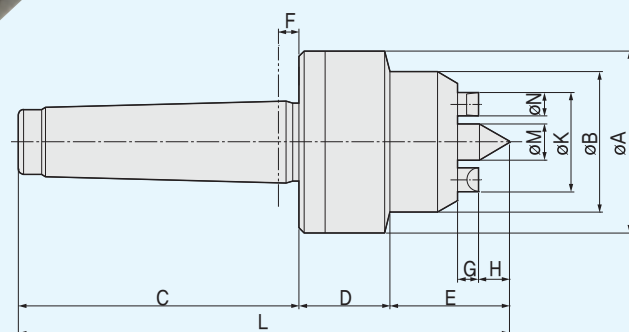
※ (MODEL NO): Carbide Tip type.

FACE DRIVER



FEATURES ;

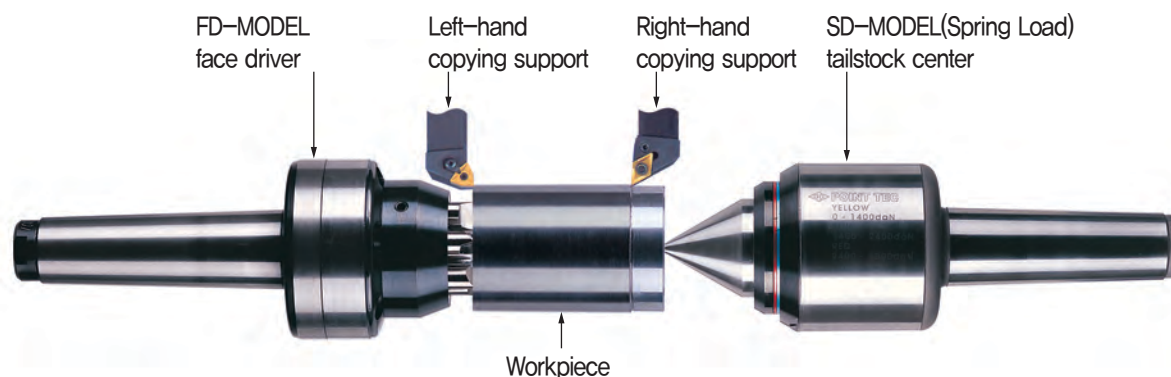
- Complete OD machining in one clamping.
- Heavy cuts with no slippage.
- Greater accuracy in machining operations.
- Accurate end location.
- Faster loading time.
Greater time save in mass production.
- Wide range clamping capability.
- Able to use at Head stock instead of clamping chuck.



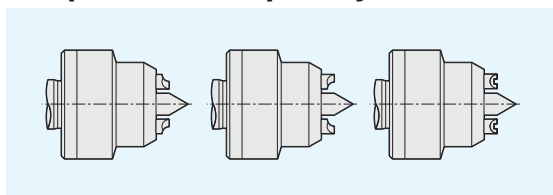
Dimension

09	1	0	0	MT														
MODEL	MODEL NO.	MT	A	B	C	D	E	F	G	H	L	K	M	N	Number of driving pins	Work size	Workpiece Weight	Weight
FD31	090803	3	42	30	89	24.5	29.5	6	5	4.3	143	17	5	5	4	ø19~ø34	50	0.8
	090804	4	42	30	108	24.5	29.5	8	5	4.3	163	17	5	5	4	ø19~ø34	50	1.0
	090805	5	42	30	136	24.5	29.5	8	5	4.3	191	17	5	5	4	ø19~ø34	50	1.5
FD32	090903	3	52	40	89	26.5	35.8	6	6.5	7.8	150.3	26	9	7	5	ø28~ø50	55	1.0
	090904	4	52	40	108	26.5	35.8	8	6.5	7.8	170.3	26	9	7	5	ø28~ø50	55	1.2
	090905	5	52	40	136	26.5	35.8	8	6.5	7.8	198.3	26	9	7	5	ø28~ø50	55	2.0
FD33	091003	3	70	54	89	36	45	6	9	11	170	38	14	9	6	ø40~ø72	65	1.2
	091004	4	70	54	108	36	45	8	9	11	189	38	14	9	6	ø40~ø72	65	2.0
	091005	5	70	54	136	36	45	8	9	11	217	38	14	9	6	ø40~ø72	65	2.9
FD34	091104	4	82	72	108	40	56.1	8	11	14.1	204.1	54	20	14	6	ø55~ø100	100	3.1
	091105	5	82	72	136	40	56.1	8	11	14.1	232.1	54	20	14	6	ø55~ø100	100	3.9

Unit : mm, kg



Special drive pin styles



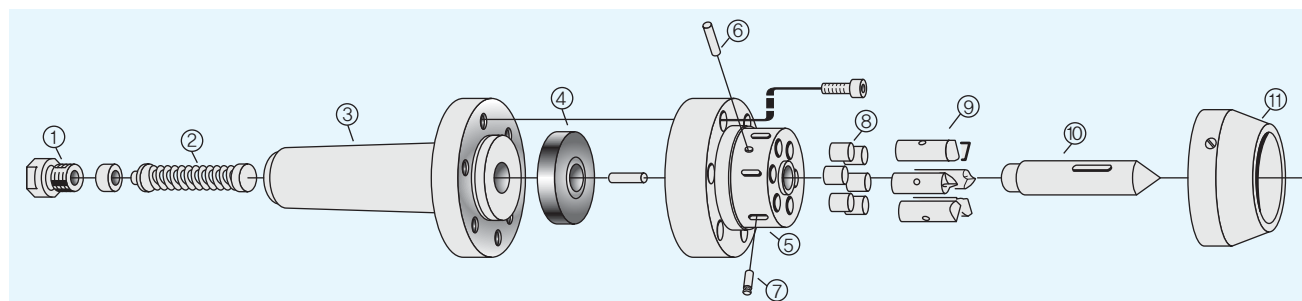
Center hole size

NO	MODEL	CENTER HOLE DIA. LIMITS			
		MIN(ϕ)		MAX(ϕ)	
		inch	ϕ	inch	ϕ
1	FD31	0.08	2	0.16	4
2	FD32	0.16	4	0.31	8
3	FD33	0.16	6	0.47	12
4	FD34	0.31	8	0.63	16

FD Sparepart

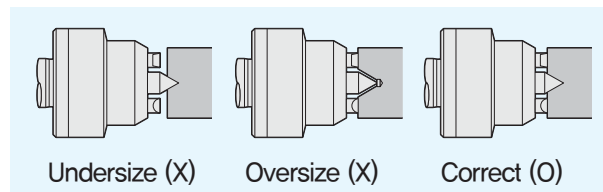
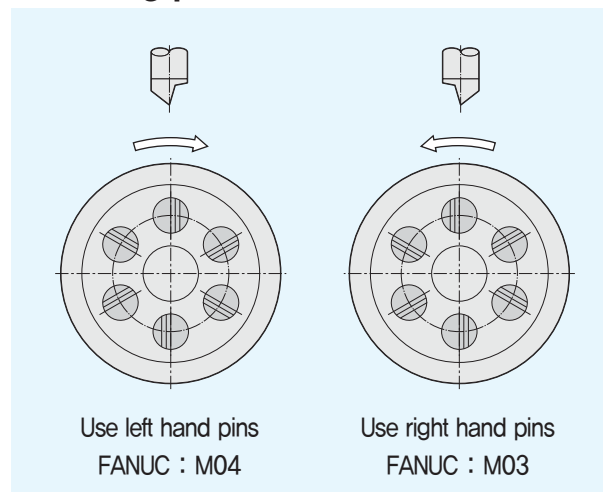
PART NO.	PART NAME	FD31	FD32	FD33	FD34
④	SP urethane	90816	90916	91016	91116
⑥	Pin-At-Point	90821	90921	91021	91121
⑦	Pin-At-Pin	90822	90922	91022	91122
⑧	Roller	90817	90917	91017	91117
⑨	Drive pin	90812	90912	91012	91112
⑩	Center pin	90814	90914	91014	91114
⑪	Cover	90823	90923	91023	91123

The construction of face driver



① End cover ② Spring rod ③ Shank ④ SP urethane ⑤ Head ⑥ Pin At Point ⑦ Pin At Pin ⑧ Roller ⑨ Drive pin ⑩ Point ⑪ Cover

Driving pins direction of rotation

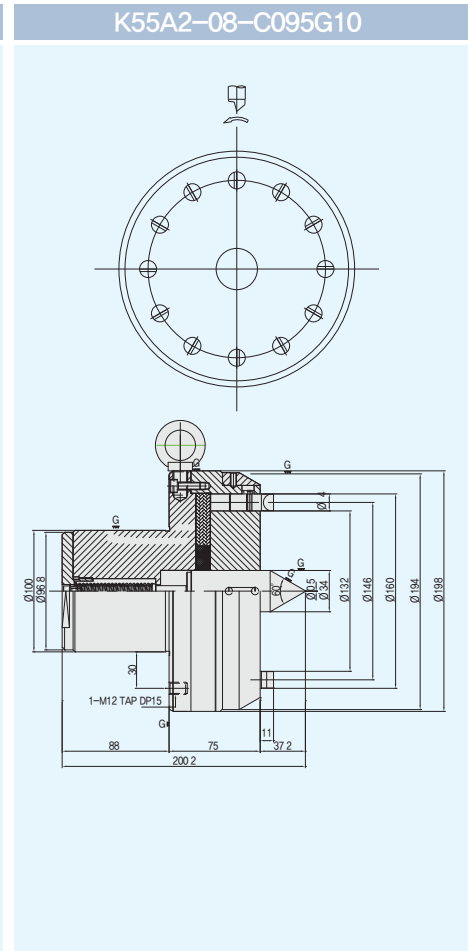
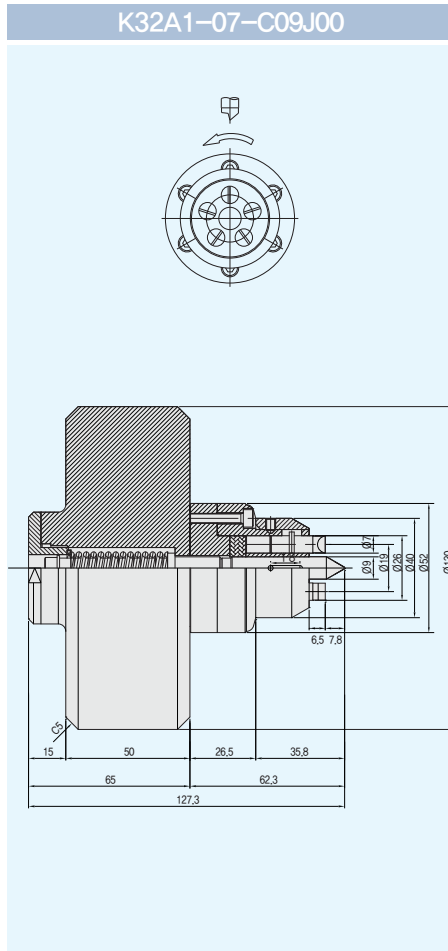
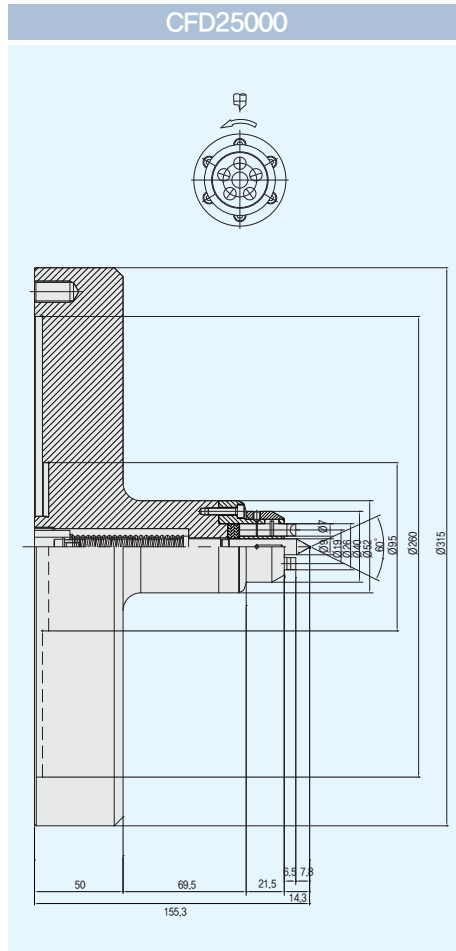


FACE DRIVER-SPECIAL TYPE



FEATURES ;

- Able to use at Head stock instead of clamping chuck.

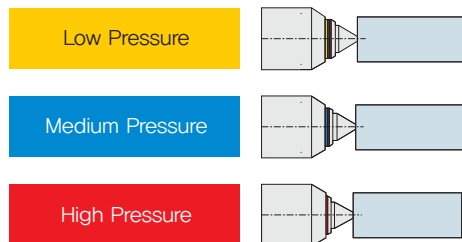
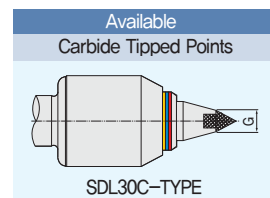
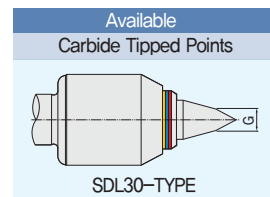
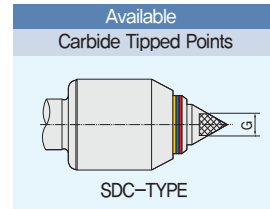


SD-TYPE

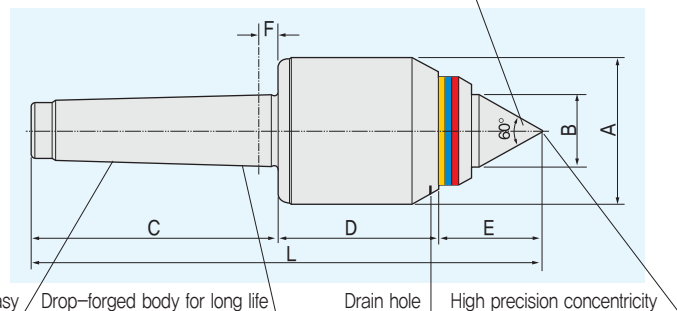


FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent complement to Face Driver.
- The axial force can easily be read off from a colored ring around the rotor.
- Automatic thrust adjustment and Quick operation.
- The high load dish spring is used to compensate for length variations in the work parts, as well as depth variations in the center holes of the work parts.
- Drain hole have to be located on bottom side.



Live center
made of wear-resistant tool steel drop-forged HRC 60±2



Shaft borehole for easy
efficient dismounting

Drop-forged body for long life
HRC 50±2

Drain hole

High precision concentricity

Dimension

10	1	0	0	MT	SD-TYPE					Unit : mm, kg			
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max. R.P.M	Max. Run Out	Weight
101002 (102002)	2	45	22	68	49	28	6	10	145	400	5,000	0.003	1.2
101003 (102003)	3	52	25	85	54	32	6	10	171	700	4,000	0.003	1.2
101004 (102004)	4	65	32	108	70	45	8	14	223	1,200	3,000	0.003	2.4
101005 (102005)	5	77	40	136	82	52	10	16	270	2,000	2,000	0.003	6.4

※(MODEL NO):Carbide Tip type.

10	2	0	0	MT	SDL30-TYPE					Unit : mm, kg			
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max. R.P.M	Max. Run Out	Weight
102002 (103002)	2	45	22	68	49	49	6	10	157	320	5,000	0.003	1.3
102003 (103003)	3	52	25	85	54	50	6	10	189	560	4,000	0.003	1.3
102004 (103004)	4	65	32	108	70	62	8	14	240	960	3,000	0.003	2.5
102005 (103005)	5	77	40	136	82	72	10	16	290	1,600	2,000	0.003	6.5

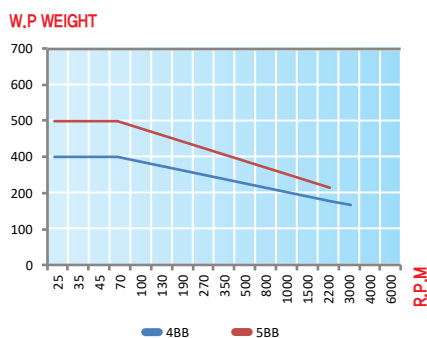
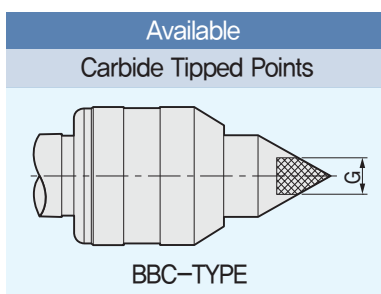
※(MODEL NO):Carbide Tip type.

BB-TYPE

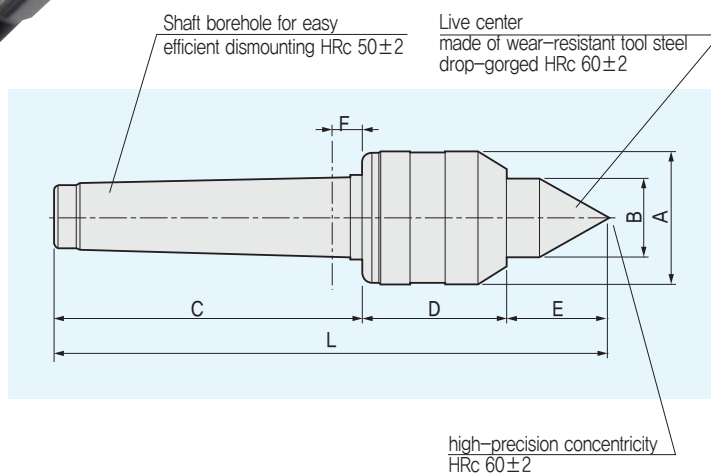


FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for light/medium-duty work on engine lathe.
- Heat-treated point to HRc 60±2.
- Two radial ball bearings and thrust bearing provide good overall load ratings.
- Rear bearing is sealed, protecting assembly from coolant and chips.



BB type technical data



Dimension

12	1	0	0	MT										
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, Axial Load	Max, R.P.M	Max, Run Out	Weight
121004 (122004)	4	44.5	25	108	44	32.5	5.3	12	184.5	400	600	5,000	0.003	1.2
121005 (122005)	5	63	28	136	58	35	6.3	14	229	500	750	4,000	0.003	2.8

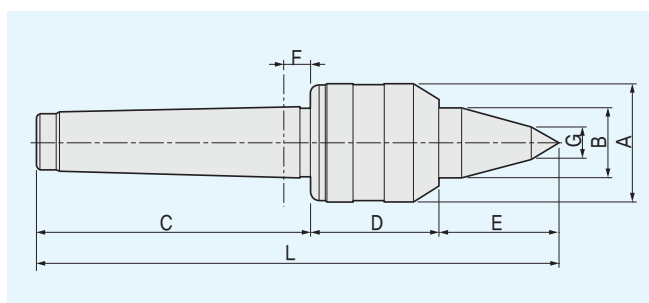
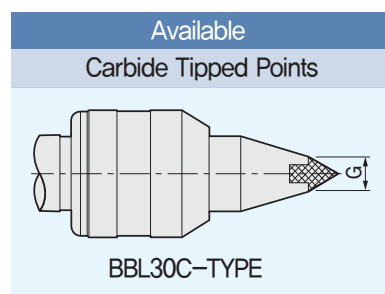
※ (MODEL NO): Carbide Tip type.

BBL30-TYPE



FEATURES ;

- Accuracy guaranteed to 0.003mm TIR (0.0001").
- Excellent for light/medium-duty work on engine lathe.
- Heat-treated point to HRC 60±2.
- Two radial ball bearings and thrust bearing provide good overall load ratings.
- Rear bearing is sealed, protecting assembly from coolant and chips.



Dimension

12	1	0	0	MT										
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, Axial Load	Max, R.P.M	Max, Run Out	Weight
123004 (124004)	4	44.5	22	108	44	36	5.3	12	188	320	600	5,000	0.003	1.2
123005 (124005)	5	63	28	136	58	44	6.3	14	236	400	750	4,000	0.003	3

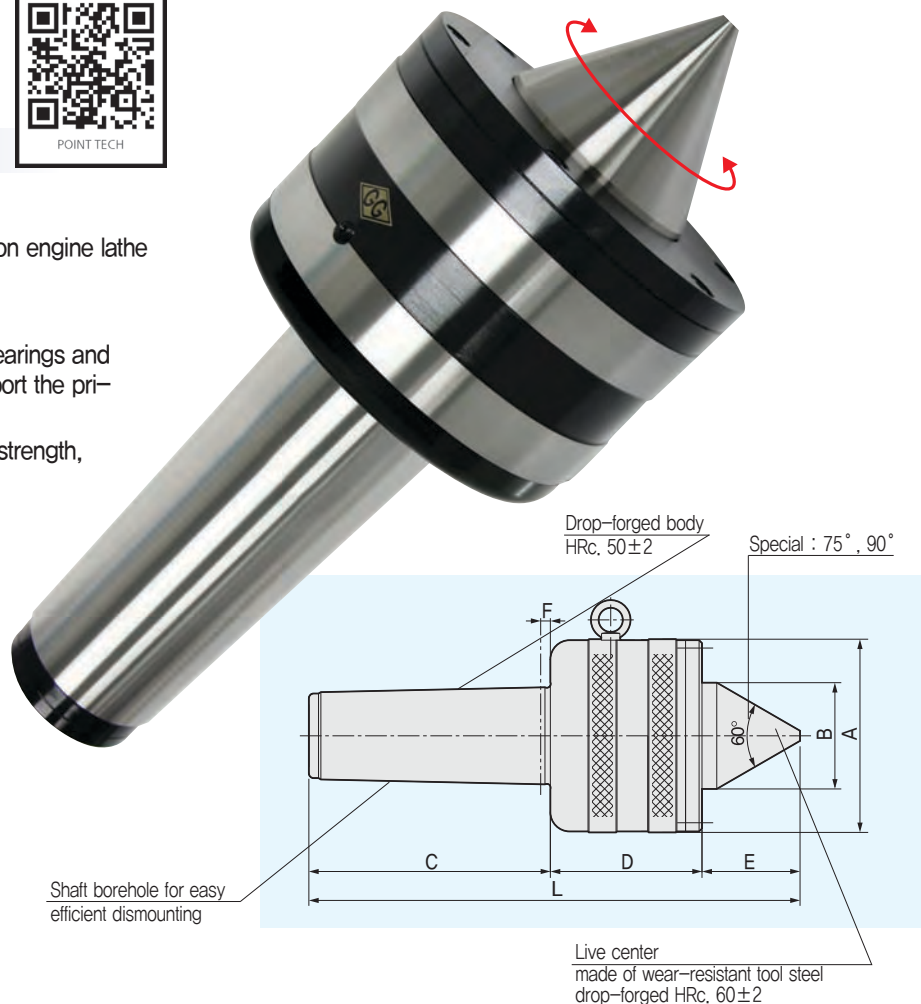
※(MODEL NO):Carbide Tip type.

HS-TYPE



FEATURES ;

- Accuracy guaranteed to 0,010mm.
- Excellent for very heavy duty work on engine lathe and CNC lathe.
- Heat-treated point to HRc 60±2.
- Two double-row cylindrical roller bearings and spherical roller thrust bearings support the primary load area of the point.
- Hardened point and body for extra strength, rigidity, and long life.



Dimension

14	1	0	0	TEPER								
MODEL	TAPER	A	B	C	D	E	F	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
HS80	1/10	178	110	203	154	96.1	10	453.1	10,000	650	35	0.010
HS100	1/10	198	110	250	157	101.5	15	508.5	15,000	500	48.3	0.010
HS110	1/10	238	125	365	162.5	121.5	15	649	20,000	500	60	0.010
HS120	1/10	238	125	293	162.5	121.5	15	577	20,000	500	58	0.010
HS80	1/20	178	110	203	154	96.1	10	453.1	10,000	650	36.2	0.010
HS100	1/20	198	110	250	157	101.5	15	508.5	15,000	500	49.5	0.010
HS110	1/20	238	125	365	162.5	121.5	15	649	20,000	500	60	0.010
HS120	1/20	238	125	293	162.5	121.5	15	577	20,000	500	58	0.010

※ Order example: 'HS100 1/10' = HS100 type with 1/10 taper

HSN-TYPE



FEATURES ;

- Accuracy guaranteed to 0,010mm.
- Excellent for very heavy duty work on engine lathe and CNC lathe.
- Heat-treated point to HRc 60±2.
- Two double-row cylindrical roller bearings and spherical roller thrust bearings support the primary load area of the point.
- Hardened point and body for extra strength, rigidity, and long life.
- Draw-off nut type. (Help to easy release from tail-stock)



Dimension

14	1	0	0	TEPER									
MODEL	TAPER	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
HSN80	1/10	178	110	203	154	96.1	10	200	453.1	10,000	650	34	0.010
HSN100	1/10	198	110	250	157	101.5	15	230	508.5	15,000	500	53.3	0.010
HSN110	1/10	238	125	365	162.5	121.5	15	250	649	20,000	500	60	0.010
HSN120	1/10	238	125	293	162.5	121.5	15	250	577	20,000	500	58	0.010
HSN80	1/20	178	100	203	154	96.1	10	200	453.1	100,000	650	35.2	0.010
HSN100	1/20	198	100	250	157	101.5	15	230	508.5	15,000	500	54.5	0.010
HSN110	1/20	238	125	365	162.5	121.5	15	250	649	20,000	500	60	0.010
HSN120	1/20	238	125	293	162.5	121.5	15	250	577	20,000	500	58	0.010

Unit : mm, kg

※Order example: 'HSN100 1/10' = HSN100 type with 1/10 taper