



LIVE CENTER FACE DRIVERS



주식회사 포인트텍
韓國GG頂尖制造會社
POINT TECH CO., LTD.

POINT TECH

How Point Tech is working for our valued customers

As a leading manufacturer of high quality live and dead centers, we are providing the best quality at the lowest price to our customers.

Each Point Tech center is manufactured to achieve 100% customer satisfaction, and we are selling not only high quality products but also our pride to customers.

Every center is tested at least 4 times to ensure our customer the highest quality available in the market today.

PointTech products are sold throughout the world by our sales representatives.

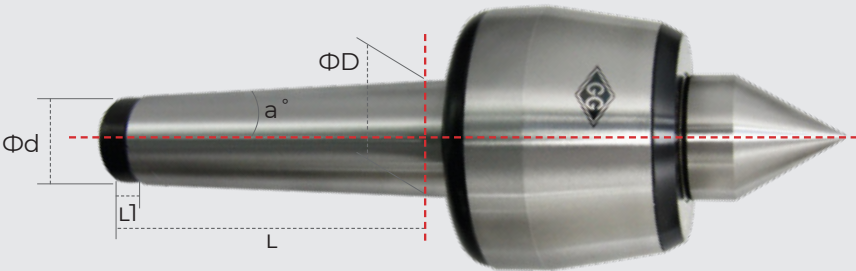
If you do not know how to purchase our products, give us a call at +82 62 942 0451 or E-mail (point@pointtec.com) and we will provide you the local dealers.



HISTORY

- 2019** Switzerland export open
- 2018** Designated as Promising Export Small and Medium Enterprise by Ministry of SMEs and Startups.
- 2014** Received exemplary taxpayer citation by National Tax Service.
- 2013** Factory transfer to high tech industrial complex.
- 2010** Develop Live tool holder.
- 2008** Export face driver products to Japan.
- 2007** Develop BS type live center for high speed precision turning machine
- 2006** Develop HS type live center for large-scale, precision grinding.
- 2005** Patent registration for Front and Rear Direction Moving Protection Device for live center.
- 2004** POINT TECH CO., LTD. CHINA office open.
- 2003** Germany export open
- 2002** Acquire ISO9001
- 2000** Change company's name into POINTTECH Co., Ltd
Selected as Venture Company by Korea Small and Medium Business Administration
- 1999** Approved "S" mark by Korean occupational Safety & Health Agency
- 1996** Selected as Advanced Company by kookmin Bank.
- 1995** Specified as Promising Advanced Technology company by Korea Ministry of Commerce & Industry.
- 1990** Selected as Advanced Technology Based Company by Korea Ministry of Commerce & Industry.
Establish the GIGON INDUSTRIAL CO., LTD as a branch factory.
(Registered as supporting company of KIA Heavy Industry Co., Ltd)
- 1988** Appointed as the 2nd Class Quality control company by Ministry of Industrial Advancement Administration.
- 1987** Selected as Promising Company by kookmin Bank.
- 1984** Established GIGONG SERVICE CO., LTD
(Registered as supporting company of Asia Motors Co., LTD and Hwacheon Machinery Co., LTD)

Morse Taper Dimension



Unit: mm

Morse Taper(MT)	ΦD(Gauge line)	Φd	a°	L	L1
2	Φ17.780	14	1°25'50"	64	4
3	Φ23.825	19	1°26'16"	79	7
4	Φ31.267	25	1°29'15"	100	9
5	Φ44.399	35	1°30'26"	128	9
6	Φ63.348	51	1°29'36"	179	12
7	Φ83.058	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 including customer's requirements POINTTECH's special model guarantee Quality, Fast delivery, Reasonable price.

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

CNC HIGH SPEED LIVE CENTER

- 06 BN / BNC TYPE
 07 BNL30 / BNL30C TYPE
 08 BNL30A / BNL30AC TYPE

**DRAW OFF NUT LIVE CENTER**

- 09 BNN / BNNC TYPE

**CNC MULTI SEALING LIVE CENTER**

- 10 UN TYPE

**HIGH SPEED MULTI SEALING LIVE CENTER**

- 11 UNH TYPE

**HIGH SPEED PREMIUM LIVE CENTER**

- 12 BNH / BNHC TYPE
 13 BNHL30 / BNHL30C TYPE
 BNHL30A / BNHL30AC TYPE

**HIGH SPEED ECONOMICAL LIVE CENTER**

- 14 BS / BSC TYPE
 15 BSL30 / BSL30C TYPE
 16 BSL30A / BSL30AC TYPE

**SUPER HIGH-SPEED LIVE CENTER**

- 17 BHS / BHSC TYPE
 18 BHSL30 / BHSL30C TYPE
 BHSL30A / BHSL30AC TYPE

**HEAVY DUTY LIVE CENTER**

- 19 TN / TNC TYPE

**WATERPROOF LIVE CENTER**

- 20 WP / WPC TYPE
 21 WPL30 / WPL30C TYPE
 22 WPL30A / WPL30AC TYPE



80° BULL HEAD LIVE CENTER

23 BP80 TYPE



60° BULL HEAD LIVE CENTER

24 BP60 TYPE

25 BP60A TYPE



INTERCHANGEABLE POINT LIVE CENTER

26 BNI TYPE

27 BNI POINT



DEAD CENTER

28 DEAD CENTER



EASY THRUST ADJUSTMENT

29 SD / SDC / SDL30 / SDL30C TYPE



FACE DRIVER

30 FACE DRIVER

32 FD SPECIAL TYPE



SUPER HEAVY LIVE CENTER

33 HS / HSN TYPE



VALUE-TURN LIVE CENTER

34 BB / BBC TYPE

35 BBL30 / BBL30C TYPE



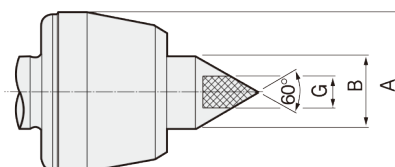
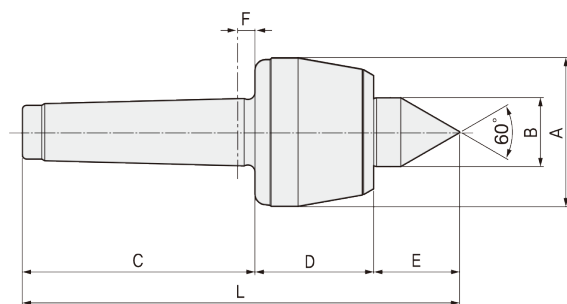
CNC HIGH SPEED LIVE CENTER : Standard Type



BN

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC and conventional machines.
- Heat-treated point to HRC 60±2.
- High performance lip seal and deflected shaft design protects bearing space (Double Angular Contact Bearing) from ingress by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90±5.



Available Carbide Tipped Points

BNC-TYPE

- MT2: 012002
- MT3: 012003
- MT4: 012004
- MT5: 012005
- MT6: 012006

Dimension

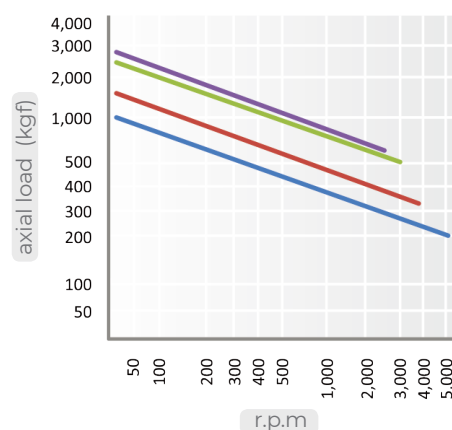
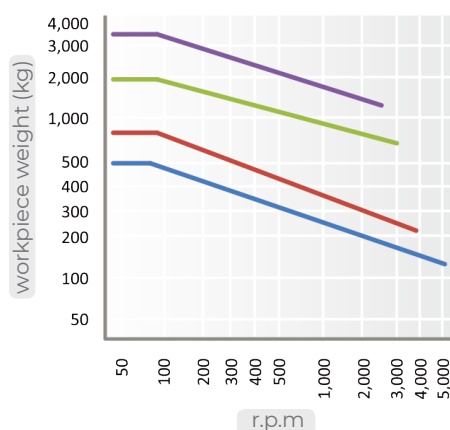
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
011002 (012002)	2	50	25	68	43.5	29.5	6	10	141	500	5,000	0.7	0.003
011003 (012003)	3	50	25	85	43.5	29.5	6	10	158	500	5,000	0.8	0.003
011004 (012004)	4	69	32	108	55	40	8	14	203	800	3,800	1.85	0.003
011005 (012005)	5	88	40	136	70	50.5	8	18	256.5	2,000	3,000	4.2	0.003
011006 (012006)	6	105	50	189	81.5	58.2	10	30	328.7	3,500	2,800	8.7	0.005

*(MODEL NO) : Carbide Tip Type

BN type Technical data

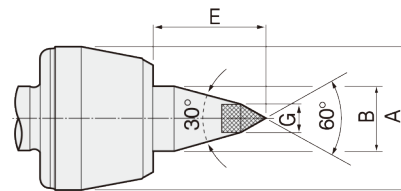
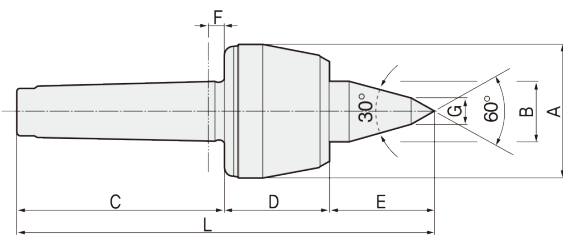
- 2,3BN
- 4BN
- 5BN
- 6BN



BNL30

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC and conventional machines.
- Shaft extension type; improve tool clearance and machining flexibility.
- Heat-treated point to HRc 60±2.
- High performance lip seal and deflected shaft design protects bearing space (Double Angular Contact Bearing) from ingress by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90±5.



Available Carbide Tipped Points BNL30C-TYPE

- MT2: 014002
- MT3: 014003
- MT4: 014004
- MT5: 014005
- MT6: 014006

Dimension

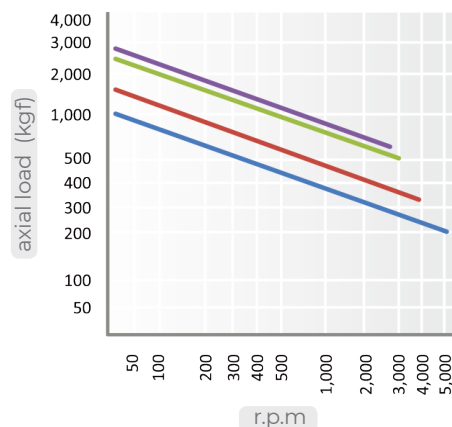
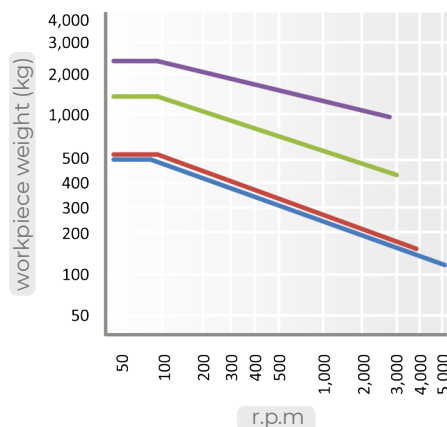
Unit: mm. kg

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	12	151.5	500	5,000	0.7	0.003
013003 (014003)	3	50	25	85	43.5	45	6	12	174	500	5,000	0.8	0.003
013004 (014004)	4	69	32	108	55	53	8	14	216	550	3,800	1.9	0.003
013005 (014005)	5	88	40	136	70	65	8	18	271	1,500	3,000	4.4	0.003
013006 (014006)	6	105	50	189	81.5	77.5	10	30	348	2,500	2,800	8.7	0.005

* (MODEL NO) : Carbide Tip Type

BNL30 type Technical data

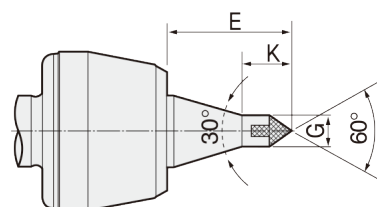
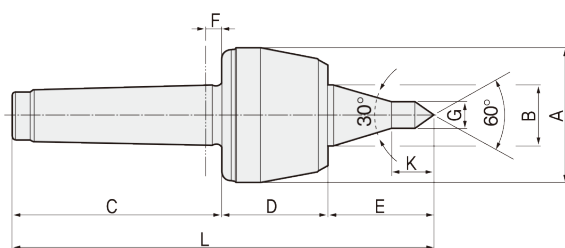
- 2,3BNL30
- 4BNL30
- 5BNL30
- 6BNL30



BNL30A

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC and conventional machines.
- Shaft extension type; improve tool clearance and machining flexibility.
- Heat-treated point to HRC 60 ± 2.
- High performance lip seal and deflected shaft design protects bearing space (Double Angular Contact Bearing) from ingress by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BNL30AC-TYPE

- MT2: 016002
- MT3: 016003
- MT4: 016004
- MT5: 016005
- MT6: 016006

Dimension

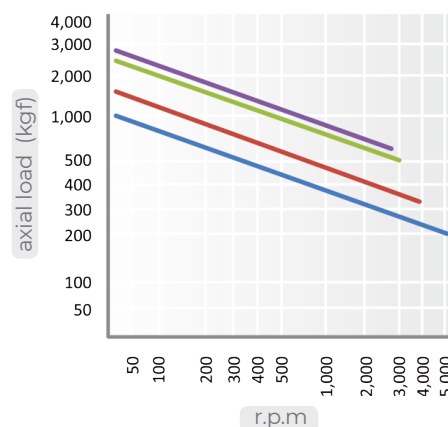
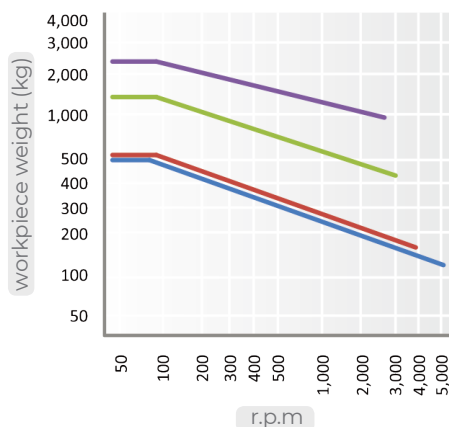
Unit: mm. kg

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	550	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

BNL30A type Technical data

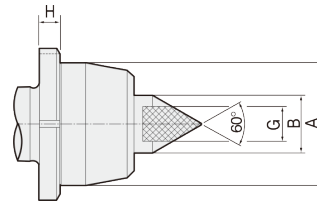
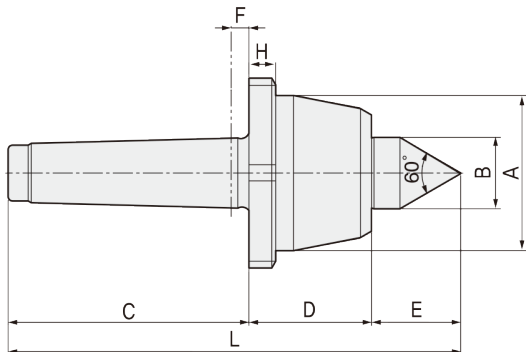
- 2,3BNL30A
- 4BNL30A
- 5BNL30A
- 6BNL30A



BNN

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC and conventional machines.
- Draw-off nut type. (Help to easy release from tail-stock.)
- Heat-treated point to HRc 60 ± 2.
- High performance lip seal and deflected shaft design protects bearing space (Double Angular Contact Bearing) from ingress by dust and coolant.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BNNC-TYPE

- MT2: 022002
- MT3: 022003
- MT4: 022004
- MT5: 022005
- MT6: 022006

Dimension

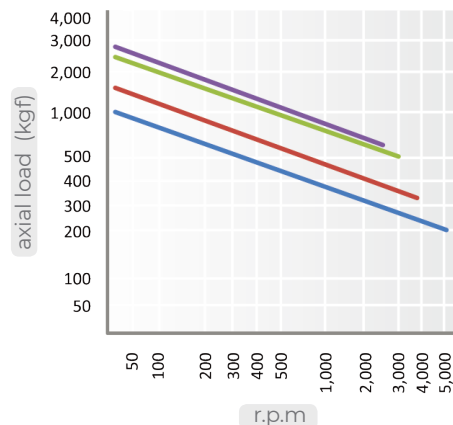
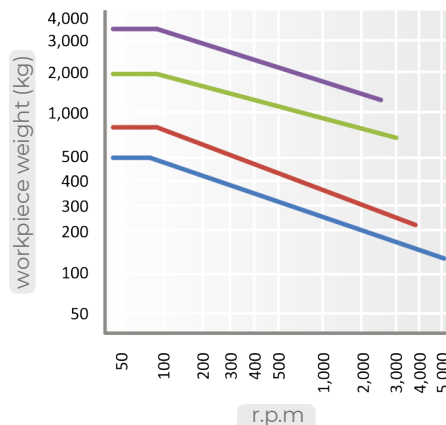
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	H	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out	AN NUT NO.
021002 (022002)	2	50	25	68	43.5	29.5	6	10	10	141	500	5,000	1	0.003	AN09
021003 (022003)	3	50	25	85	43.5	29.5	6	10	10	158	500	5,000	1	0.003	AN09
021004 (022004)	4	69	32	108	55	40	8	12	14	203	800	3,800	2.1	0.003	AN13
021005 (022005)	5	88	40	136	70	50.5	8	16	18	256.5	2,000	3,000	5	0.003	AN17
021006 (022006)	6	105	50	189	81.5	57.5	10	18	30	328	3,500	2,800	10.5	0.005	AN20

* (MODEL NO) : Carbide Tip Type

BNN type Technical data

- 2,3BNN
- 4BNN
- 5BNN
- 6BNN



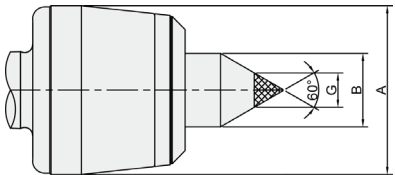
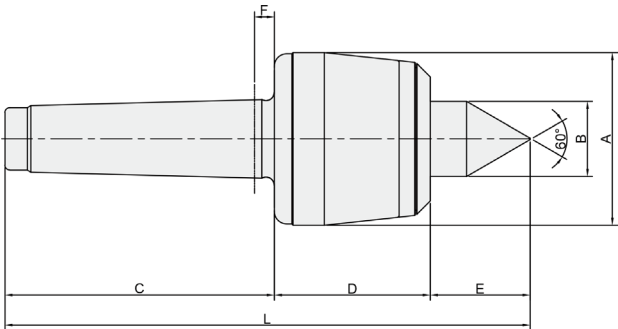
CNC MULTI SEALING LIVE CENTER : Standard Type



UN

FEATURES

- Advanced new product of BN type.
- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Multi sealing (high performance lip seal and V-seal) protects from ingress by dust and coolant.
- Shorten maintenance time for automated CNC installations by longer product life.
- Heat-treated point to HRc 60 ± 2
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available. (UNC TYPE)
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points
UNC-TYPE

- MT4: 152004
- MT5: 152005

Dimension

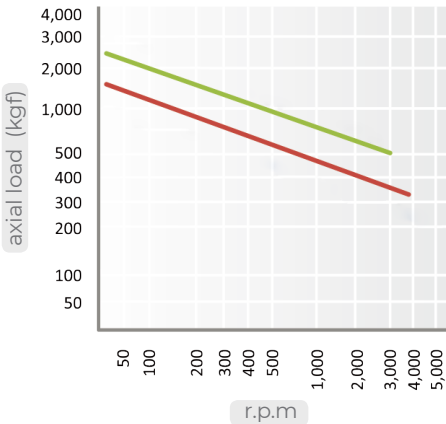
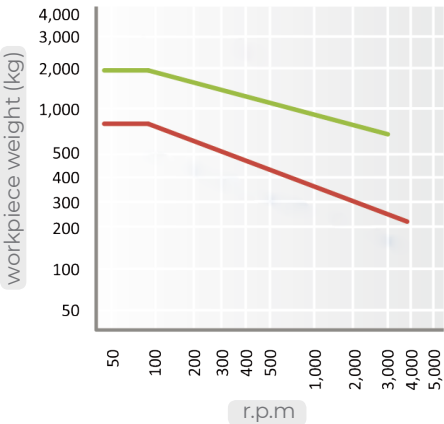
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
151004 (152004)	4	69	30	108	62.5	40	8	14	210.5	800	3,800	2	0.003
151005 (152005)	5	88	38	136	79	50.5	8	18	265.5	2,000	3,000	4.5	0.003

*(MODEL NO) : Carbide Tip Type

UN type
Technical data

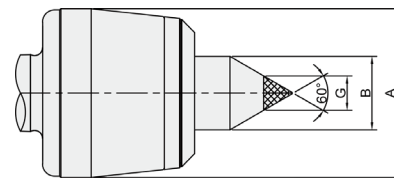
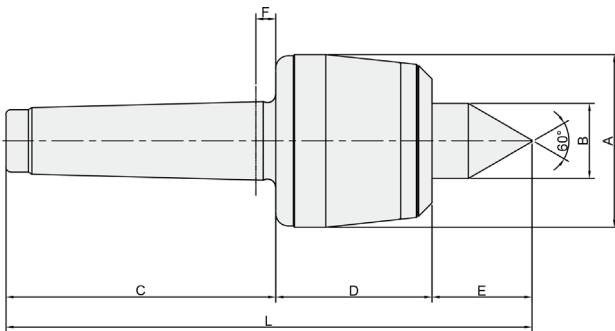
- 4UN
- 5UN



UNH

FEATURES

- High speed product of UN type.
- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Multi sealing (high performance lip seal and V-seal) protects from ingress by dust and coolant.
- Shorten maintenance time for automated CNC installations by longer product life.
- Heat-treated point to HRc 60 ± 2.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available. (UNHC TYPE)
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points
UNHC-TYPE

- MT4: 172004
- MT5: 172005

Dimension

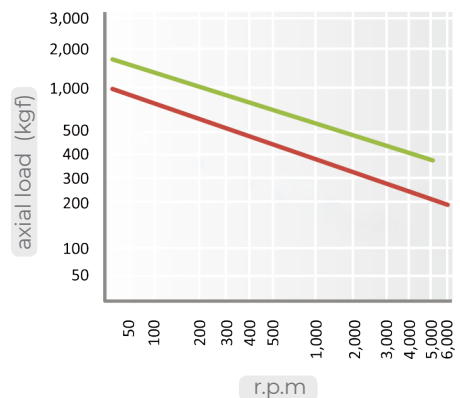
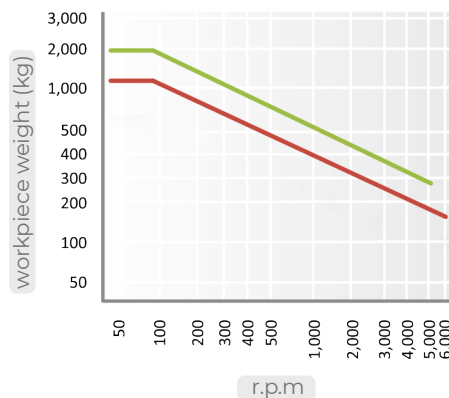
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
171004 (172004)	4	69	30	108	62.5	40	8	14	210.5	800	6,000	2	0.003
171005 (172005)	5	88	38	136	79	50.5	8	18	265.5	2,000	5,000	5	0.003

* (MODEL NO) : Carbide Tip Type

UNH type Technical data

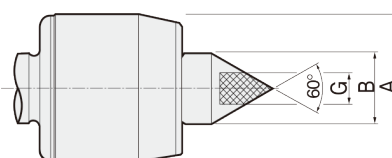
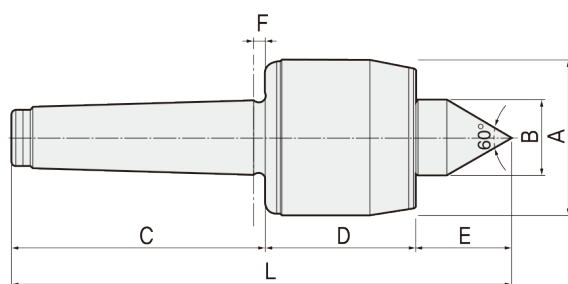
- 4UNH
- 5UNH



BNH

FEATURES

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high speed precision machining.
- High RPM (Up to 6,000)
- Heat-treated point to HRC 60 ± 2
- Based on roller bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BNHC-TYPE

- MT3: 032003
- MT4: 032004
- MT5: 032005

Dimension

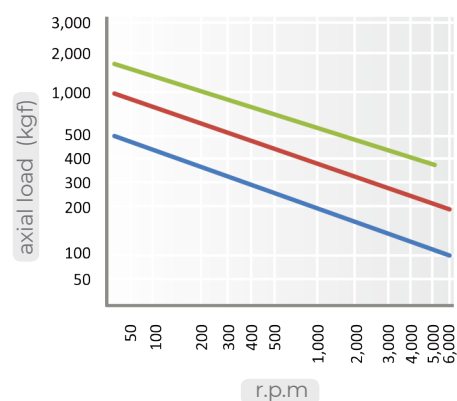
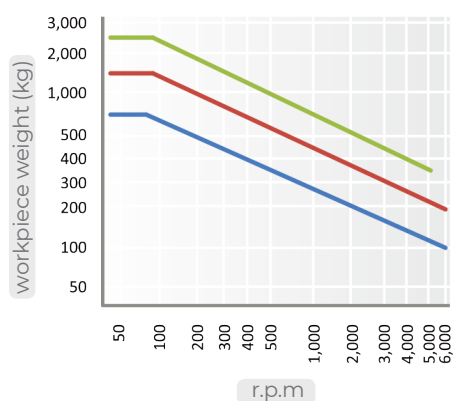
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
031003 (032003)	3	50	22	85	51.5	26	4.5	10	162.5	750	6,000	1.8	0.002
031004 (032004)	4	66	32	108	64	41	5.3	14	213	1,500	6,000	2.2	0.002
031005 (032005)	5	80	40	136	70	41	6.3	18	247	2,600	5,000	5.2	0.002

*(MODEL NO) : Carbide Tip Type

BNH type Technical data

- 3BNH
- 4BNH
- 5BNH

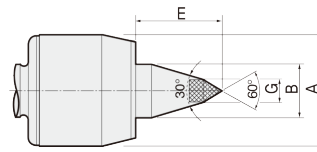
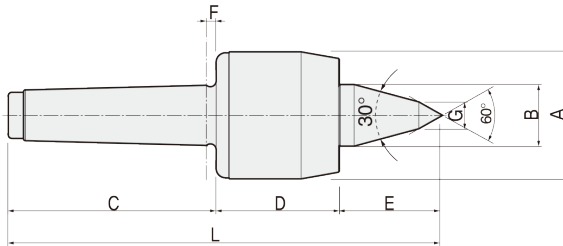


HIGH SPEED PREMIUM LIVE CENTER : Extended 30° Type



BNHL30

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high speed precision machining.
- Shaft extension type; improve tool clearance and machining flexibility.
- High RPM (Up to 6,000)
- Heat-treated point to HRc 60 ± 2
- Based on roller bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BNHL30C-TYPE

- MT3: 034003
- MT4: 034004
- MT5: 034005

Unit: mm. kg

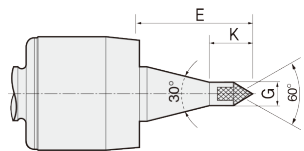
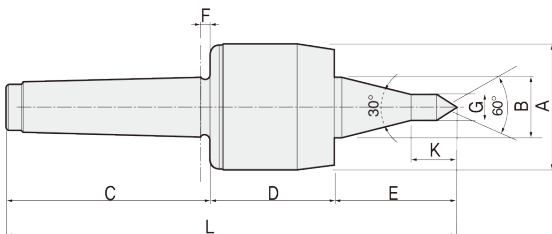
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
033003 (034003)	3	50	22	85	51.5	35	4.5	12	171.5	600	6,000	1.9	0.002
033004 (034004)	4	66	32	108	64	53	5.3	14	225	1,100	6,000	2.2	0.002
033005 (034005)	5	80	40	136	70	65	6.3	16	271	2,000	5,000	5.2	0.002

* (MODEL NO) : Carbide Tip Type

HIGH SPEED PREMIUM LIVE CENTER : Extended A Type

BNHL30A

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high speed precision machining.
- Shaft extension type; improve tool clearance and machining flexibility.
- High RPM (Up to 6,000)
- Heat-treated point to HRc 60 ± 2
- Based on roller bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BNHL30AC-TYPE

- MT3: 036003
- MT4: 036004
- MT5: 036005

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	186.5	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

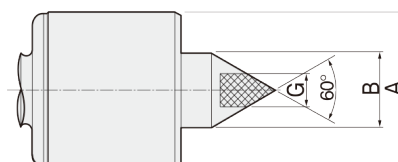
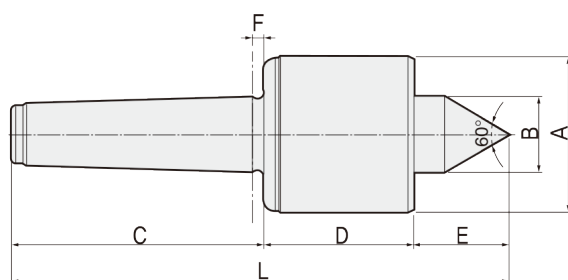
HIGH SPEED ECONOMICAL LIVE CENTER : Standard Type



BS

FEATURES

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high speed light-duty machining.
- High RPM (Up to 6,000)
- Heat-treated point to HRC 60 $\pm$ 2.
- Based on double angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 $\pm$ 5.



Available Carbide Tipped Points

BSC-TYPE

- MT3: 162003
- MT4: 162004
- MT5: 162005

Dimension

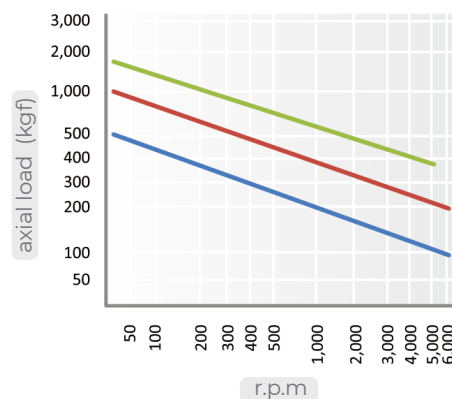
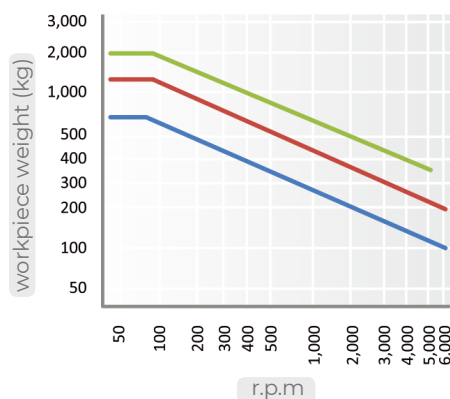
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
161003 (162003)	3	50	20	85	58	23	4.5	10	166	750	6,000	1.9	0.002
161004 (162004)	4	66	31	107	71	33.5	5.3	14	211.5	1,300	6,000	2.4	0.002
161005 (162005)	5	80	35	136	78	38	6.3	18	252	2,000	5,000	5.3	0.002

*(MODEL NO) : Carbide Tip Type

BS type Technical data

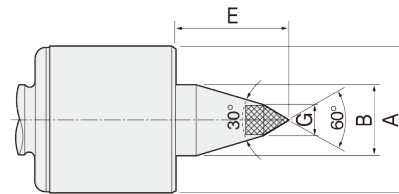
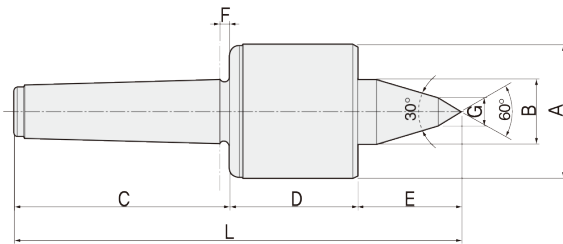
- 3BS
- 4BS
- 5BS



BSL30

FEATURES

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high speed light-duty machining.
- Shaft extension type; improve tool clearance and machining flexibility.
- High RPM (Up to 6,000)
- Heat-treated point to HRc 60
- Based on double angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points BSL30C-TYPE

- MT3: 164003
- MT5: 164005
- MT4: 164004

Dimension

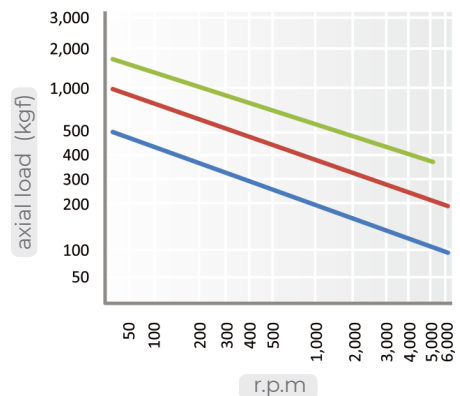
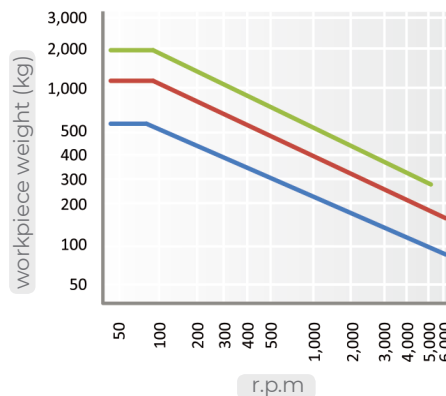
Unit: mm. kg

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	600	6,000	1.9	0.002
163004 (164004)	4	66	31	107	71	51	5.3	14	229	1,100	6,000	2.4	0.002
163005 (164005)	5	80	35	136	78	53	6.3	18	267	2,000	5,000	5.3	0.002

* (MODEL NO) : Carbide Tip Type

BSL30 type Technical data

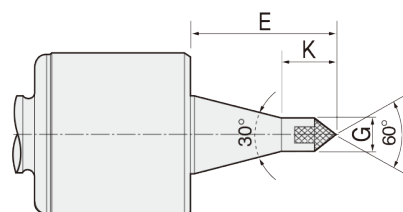
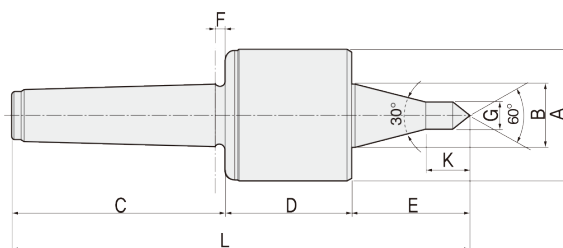
- 3BSL30
- 4BSL30
- 5BSL30



BSL30A

FEATURES

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high speed light-duty machining.
- Shaft extension type; improve tool clearance and machining flexibility.
- High RPM (Up to 6,000)
- Heat-treated point to HRc 60 $\pm$ 2.
- Based on double angular contact bearings for superior performance.
- Anti-friction seal for coolant deflectors and high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 $\pm$ 5.



Available Carbide Tipped Points

BSL30AC-TYPE

- MT3: 166003
- MT4: 166004
- MT5: 166005

Dimension

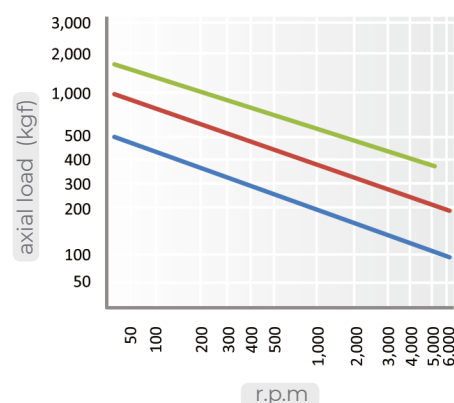
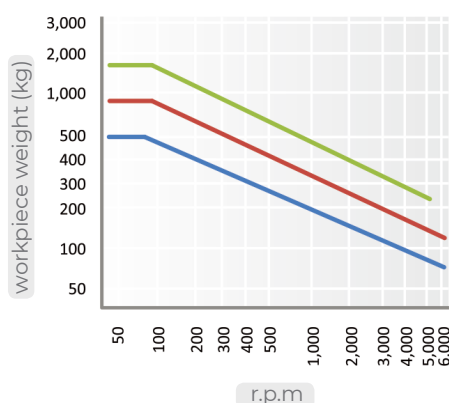
Unit: mm. kg

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	500	6,000	1.9	0.002
165004 (166004)	4	66	31	107	71	63.5	5.3	12.5	23	241.5	900	6,000	2.4	0.002
165005 (166005)	5	80	35	136	78	70	6.3	12.5	23.5	284	1,700	5,000	5.3	0.002

*(MODEL NO) : Carbide Tip Type

BSL30A type Technical data

- 3BSL30A
- 4BSL30A
- 5BSL30A



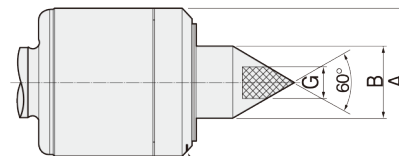
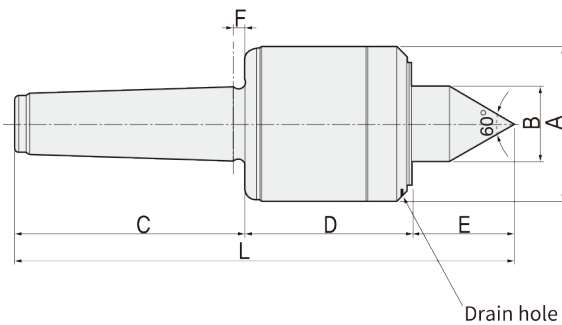
SUPER HIGH SPEED LIVE CENTER : Standard Type



BHS

FEATURES

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high precision high speed machining.
- High RPM (Up to 12,000)
- Heat-treated point to HRc 60 ± 2.
- Drain hole have to be located on bottom side.
- Labyrinth seal for coolant deflectors and super high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BHSC-TYPE

- MT2: 042002
- MT3: 042003
- MT4: 042004
- MT5: 042005

Dimension

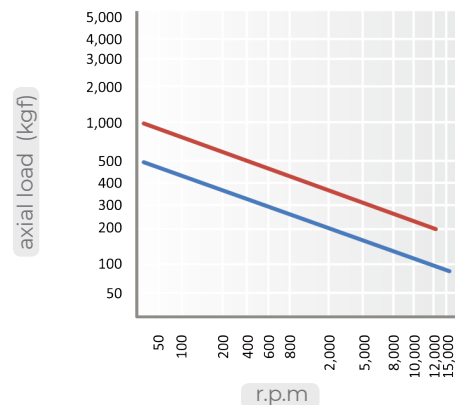
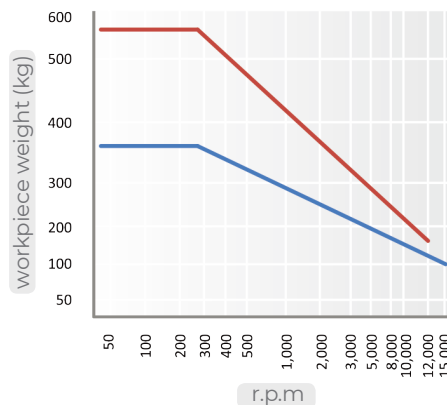
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
041002 (042002)	2	50	20	68	54	26	4	10	148	360	15,000	1.5	0.002
041003 (042003)	3	50	20	85	54	26	4.5	10	165	360	15,000	1.8	0.002
041004 (042004)	4	70	30	108	75	37	5.3	14	220	560	12,000	2.2	0.002
041005 (042005)	5	70	30	136	75	37	6.3	18	248	560	12,000	5.2	0.002

* (MODEL NO) : Carbide Tip Type

BHS type Technical data

- 2,3BHS
- 4,5BHS

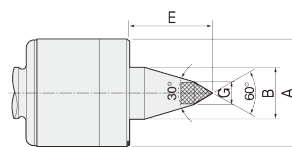
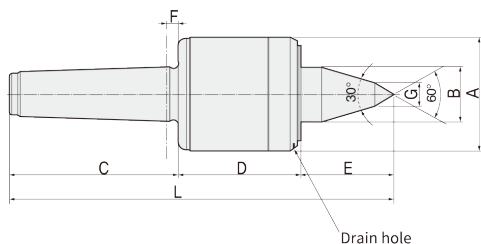


SUPER HIGH SPEED LIVE CENTER : Extended 30° Type



BHSL30

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high precision high speed machining.
- Shaft extension type; improve tool clearance and machining flexibility.
- High RPM (Up to 12,000)
- Heat-treated point to HRc 60 ± 2.
- Drain hole have to be located on bottom side.
- Labyrinth seal for coolant deflectors and super high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BHSL30C-TYPE

- MT2: 044002
- MT3: 044003
- MT4: 044004
- MT5: 044005

Unit: mm. kg

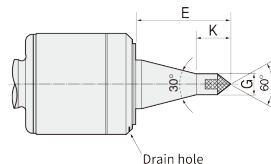
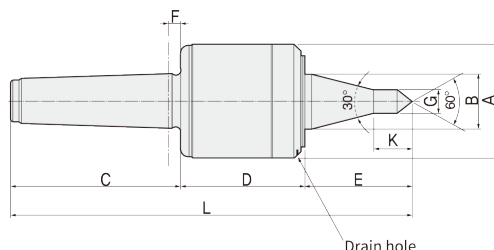
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max. R.P.M	Weight	Max. Run Out
043002 (044002)	2	50	20	68	54	38	4	10	160	280	15,000	1.8	0.002
043003 (044003)	3	50	20	85	54	35	4.5	12	174	280	15,000	1.8	0.002
043004 (044004)	4	70	30	108	75	53	5.3	14	236	450	12,000	2.2	0.002
043005 (044005)	5	70	30	136	75	53	6.3	18	264	450	12,000	5.2	0.002

* (MODEL NO) : Carbide Tip Type

SUPER HIGH SPEED LIVE CENTER : Extended A Type

BHSL30A

- Accuracy guaranteed to 0.002mm TIR (0.0001")
- Excellent for CNC, grinder and high precision high speed machining.
- Shaft extension type; improve tool clearance and machining flexibility.
- High RPM (Up to 12,000)
- Heat-treated point to HRc 60
- Drain hole have to be located on bottom side.
- Labyrinth seal for coolant deflectors and super high speed.
- Heat-treated body for extra strength, rigidity and long life.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

BHSL30AC-TYPE

- MT2: 046002
- MT3: 046003
- MT4: 046004
- MT5: 046005

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	70	6.3	12.5	23.5	281	390	12,000	5.2	0.002

* (MODEL NO) : Carbide Tip Type

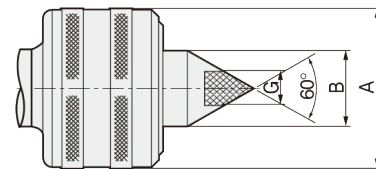
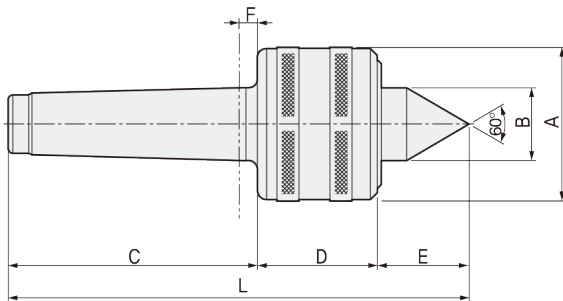
HEAVY DUTY LIVE CENTER



TN

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC, conventional machines and heavy-duty machining
- Heat-treated point to HRc 60
- Based on taper roller bearing assembly for superior performance.
- Carbide point available.
- Carbide point to HRA 90±5.



Available Carbide Tipped Points

TNC-TYPE

- MT3: 062003
- MT4: 062004
- MT5: 062005
- MT6: 062006

Dimension

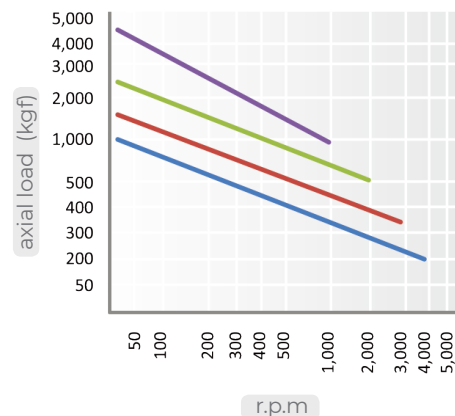
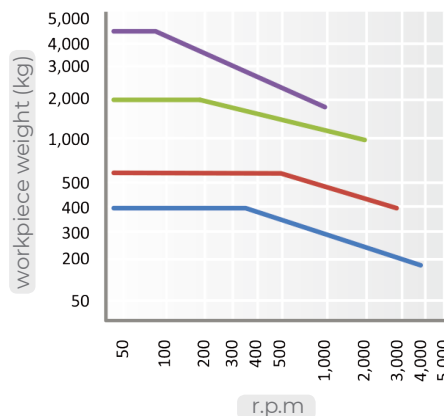
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
061003 (062003)	3	51	25	85	44	28	6	10	157	400	4,000	0.8	0.003
061004 (062004)	4	66	32	108	52	40	8	14	200	650	3,000	1.8	0.003
061005 (062005)	5	94	40	136	70	45.5	8	18	251.5	2,500	2,000	4.3	0.003
061006 (062006)	6	127	58.5	189	92.7	61.5	10	30	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	168	78.5	260	110	82	12	-	452	5,000	500	32	0.010
061008	7	177	78.5	260	124	80	12	-	464	10,000	500	34	0.010

* (MODEL NO) : Carbide Tip Type

TN type Technical data

- 3TN
- 4TN
- 5TN
- 6TN



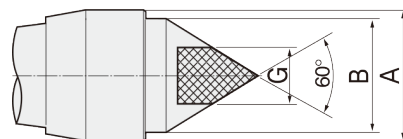
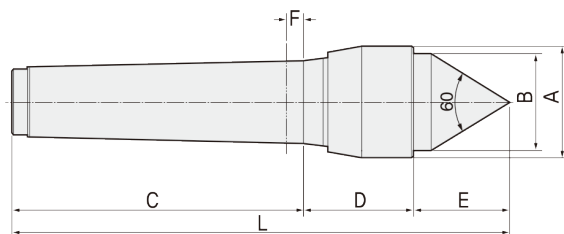
WATER PROOF LIVE CENTER : Standard Type



WP

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC, grinder and inspection machines.
- Waterproof enhanced type.
- Heat-treated point to HRC 60 ± 2.
- Small head diameter reduces interference problem between tool holders and turning tools.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points

WPC-TYPE

- MT2: 072002
- MT3: 072003
- MT4: 072004
- MT5: 072005

Dimension

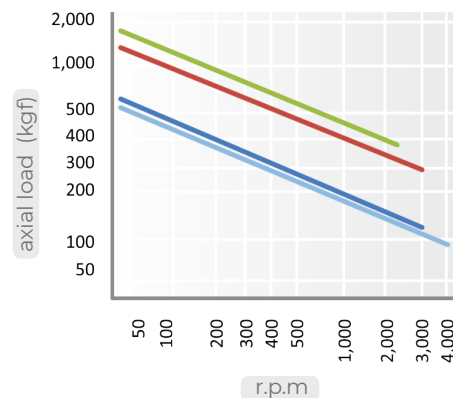
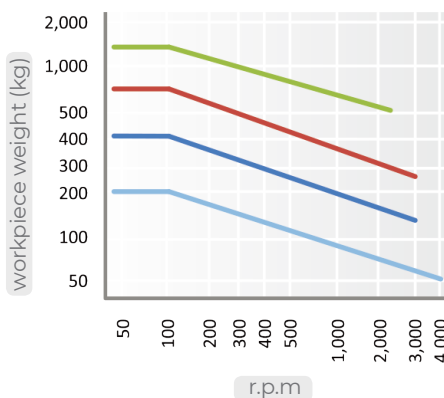
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
071002 (072002)	2	27.7	23.8	69	28	23	4.5	10	120	200	4,000	0.3	0.003
071003 (072003)	3	32.3	28	85	32	28	5	10	145	400	3,000	0.4	0.003
071004 (072004)	4	45	40	108	48	38	6	14	194	700	3,000	1.1	0.003
071005 (072005)	5	62	54	136	54	51	8	18	241	1,300	2,000	2.7	0.003

*(MODEL NO) : Carbide Tip Type

WP type Technical data

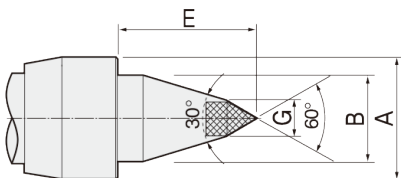
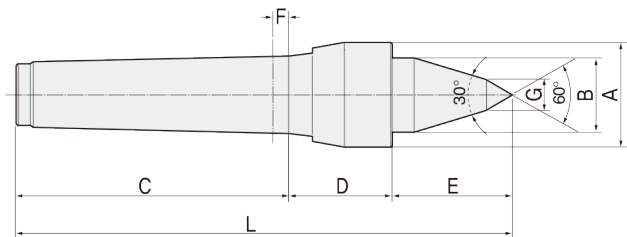
- 2WP
- 3WP
- 4WP
- 5WP



WPL30

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC, grinder and inspection machines.
- Waterproof enhanced type.
- Heat-treated point to HRC 60 ± 2.
- Small head diameter reduces interference problem between tool holders and turning tools.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points WPL30C-TYPE

- MT2: 074002
- MT3: 074003
- MT4: 074004
- MT5: 074005

Dimension

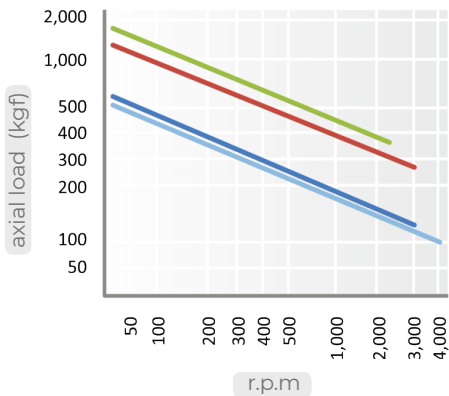
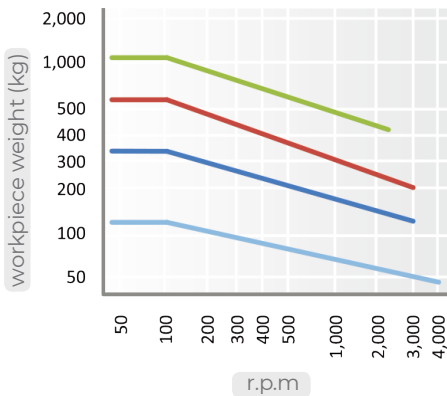
Unit: mm. kg

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	18	280	1,000	2,000	3.2	0.003

* (MODEL NO) : Carbide Tip Type

WPL30 type Technical data

- 2WPL30
- 3WPL30
- 4WPL30
- 5WPL30



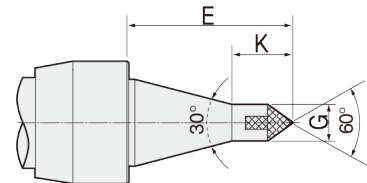
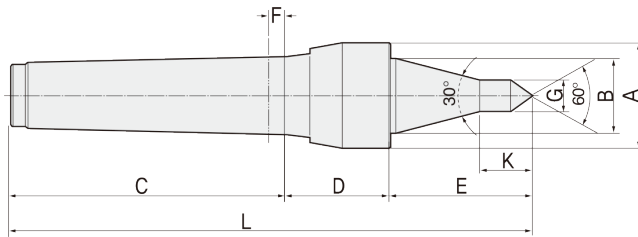
WATER PROOF LIVE CENTER : Extended A Type



WPL30A

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for CNC, grinder and inspection machines.
- Waterproof enhanced type.
- Heat-treated point to HRC 60 $\pm$ 2.
- Small head diameter reduces interference problem between tool holders and turning tools.
- Carbide point available.
- Carbide point to HRA 90 $\pm$ 5.



Available Carbide Tipped Points WPL30AC-TYPE

- MT2: 076002
- MT3: 076003
- MT4: 076004
- MT5: 076005

Dimension

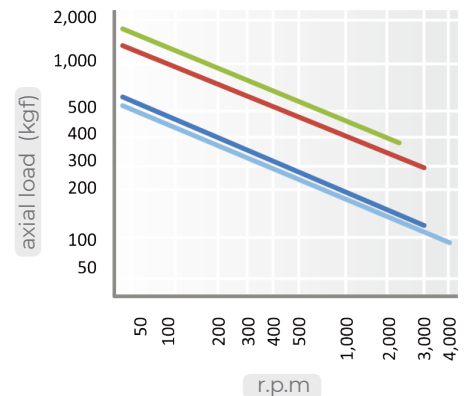
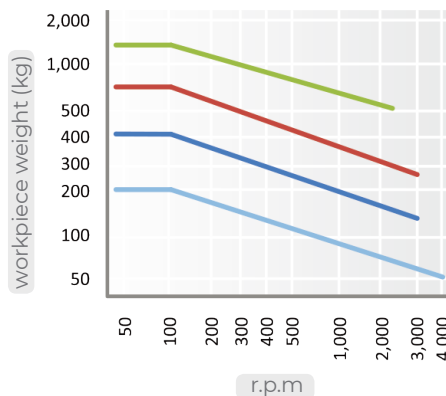
Unit: mm. kg

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

*(MODEL NO) : Carbide Tip Type

WPL30A type Technical data

- 2WPL30A
- 3WPL30A
- 4WPL30A
- 5WPL30A



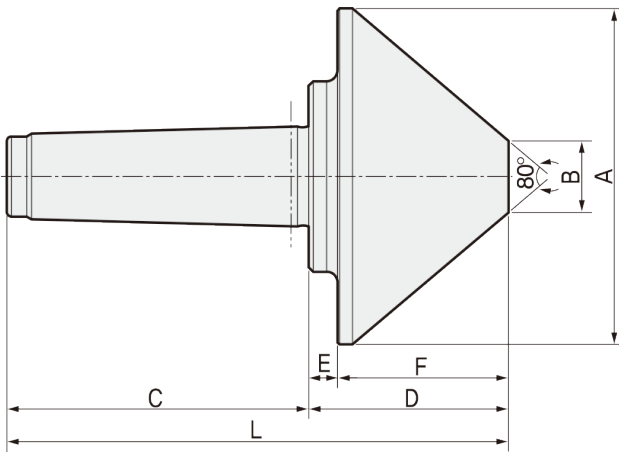
80° BULL HEAD LIVE CENTER



BP80

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for heavy duty lathe applications.
- For pipe work, tube work and parts with extra-large center holes.
- Heat-treated point to HRc 60 ± 2.
- Adjust the shaking of the head part with screw.
- The design prevents ingress of coolant and chips.



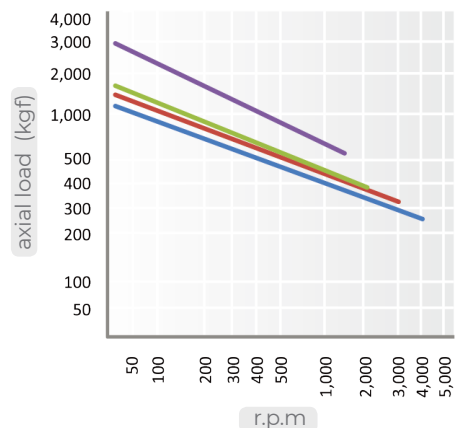
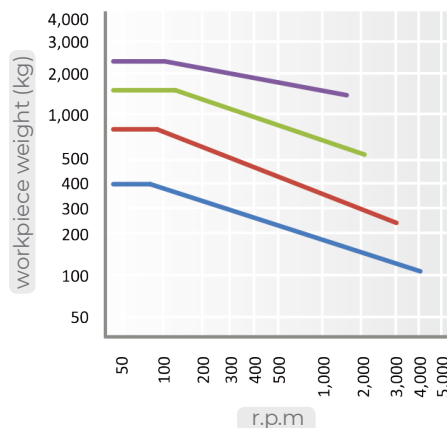
Dimension

Unit: mm. kg

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

BP80 type Technical data

- 3BP80
- 4BP80
- 5BP80
- 6BP80



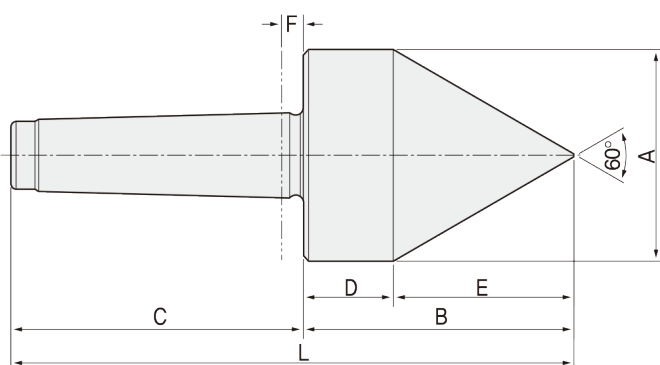
60° BULL HEAD LIVE CENTER : Standard Type



BP60

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for pipe work, tube work and parts with extra-large center holes.
- Heat-treated point to HRC 60 ± 2.
- Used both as a centering taper for hollow bodies and as a center for machining standard workpiece.



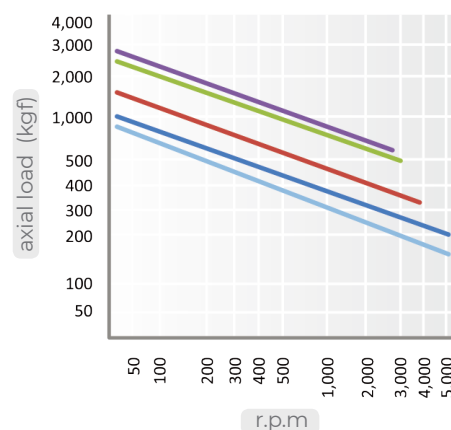
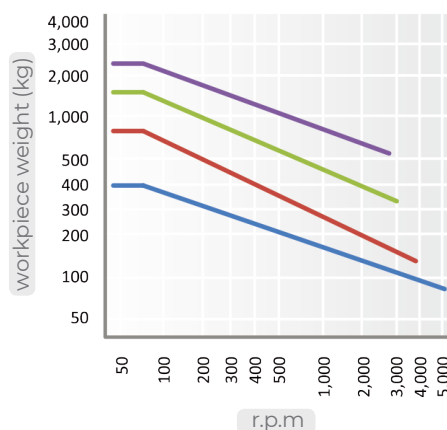
Dimension

Unit: mm. kg

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	76.5	85	28.5	48	6	161.5	400	5,000	1.5	0.003
081004	4	78	100	108	33	67	8	208	800	3,800	2.3	0.003
081005	5	98	125	136	41	84	8	261	1,600	3,000	5	0.003
081006	6	118	154	189	53	101	10	343	2,500	2,500	11.2	0.005

BP60 type Technical data

- 2,3BP60
- 4BP60
- 5BP60
- 6BP60



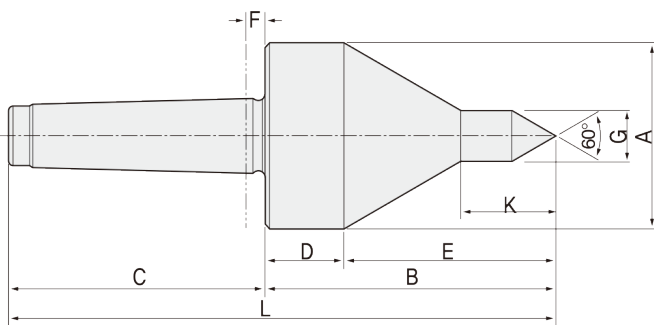
60° BULL HEAD LIVE CENTER : Extended A Type



BP60A

FEATURES

- Accuracy guaranteed to 0.003mm TIR (0.0001")
- Excellent for pipe work, tube work and parts with extra-large center holes.
- Heat-treated point to HRc 60 ± 2.
- Used both as a centering taper for hollow bodies and as a center for machining standard workpiece.



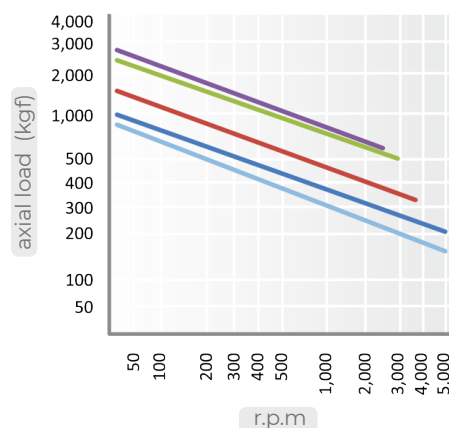
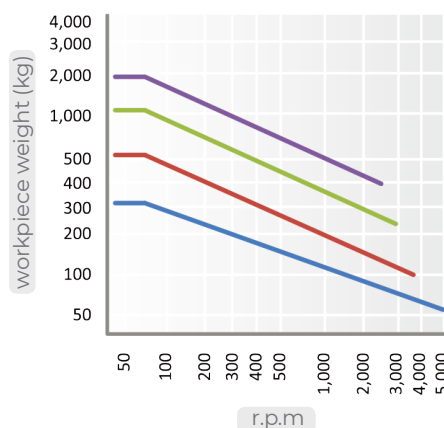
Dimension

Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	K	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
085002	2	44	79	68	32.3	46.7	6	12	19	147	320	5,000	1	0.003
085003	3	56	86	85	28.9	57.1	6	12	19	171	320	5,000	1	0.003
085004	4	78	103.5	108	26.3	77.2	8	16	23.5	211.5	560	3,800	2.3	0.003
085005	5	98	140	136	41.6	98.4	8	19	30	276	1,200	3,000	5	0.003
085006	6	118	165	189	44.3	120.7	10	19	35	354	2,000	2,500	10	0.005

BP60A type Technical data

- 2,3BP60A
- 4BP60A
- 5BP60A
- 6BP60A



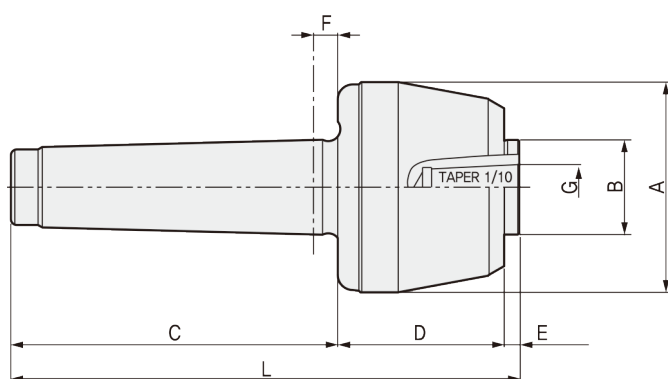
INTERCHANGEABLE POINTS LIVE CENTER



BNI

FEATURES

- Accuracy for center inner diameter guaranteed to 0.003.
- Accuracy after point locking guaranteed to 0.005
- Excellent for versatile production by changing insert shafts quickly.
- Heat-treated point to HRC 60 $\pm$ 2.
- 6 types of standard point is available.
- Because of the insert shafts, the admissible workpiece weight is limited.
- Mounting taper of point is 1/10 degree.
- Order made special shape point is available.



Dimension

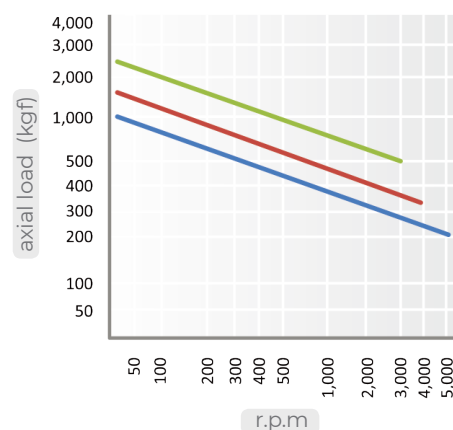
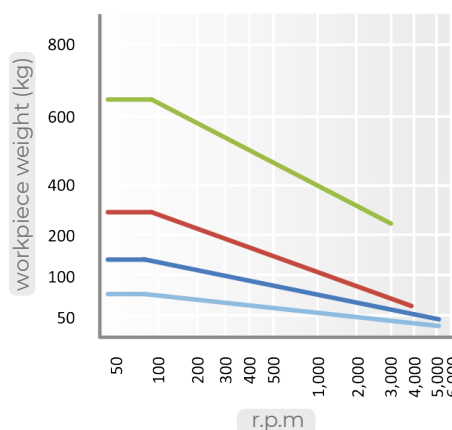
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	K	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

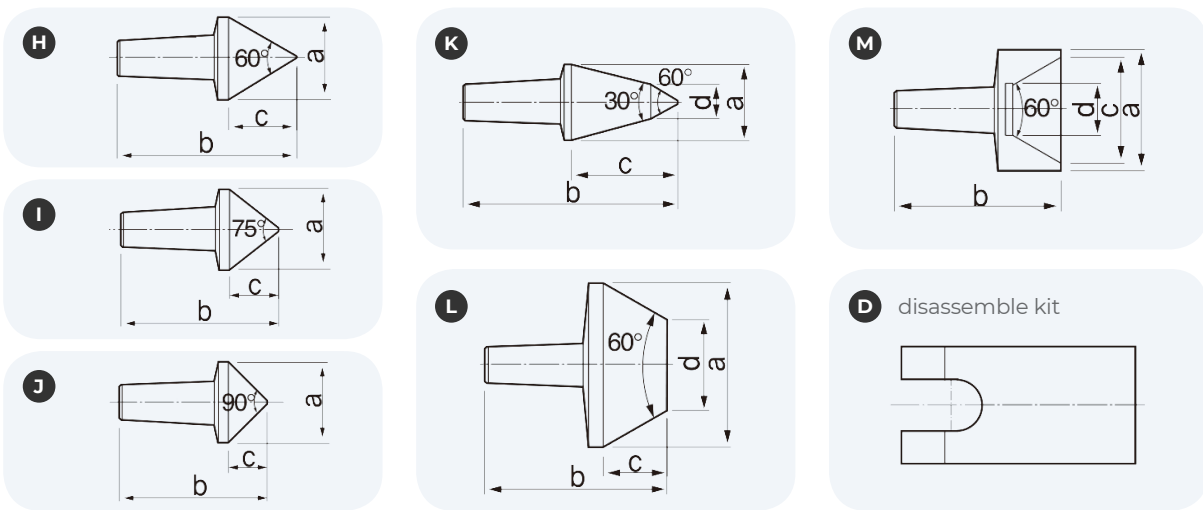
* Order example : '051004 Body' = MT4 BNI body only (without an insert shaft)
'051004 SET' = MT4 BNI body and 6 insert shaft included

BNItype Technical data

- 2BNI
- 3BNI
- 4BNI
- 5BNI



BNI POINTS



* 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	55.5	51	40
		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	55.5	51	40
		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	26	45
		d	-	-	-	13	40	25.4

* Order example: '051004H' = MT 4 BNI insert shaft type: H

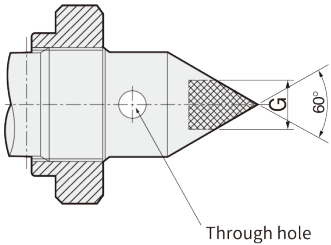
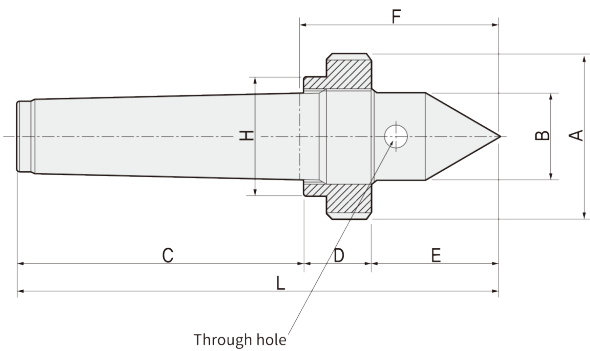
DEAD CENTER



DEAD CENTER

FEATURES

- Accuracy guaranteed to 0.002m TIR (0.0001")
- Excellent for built-in-tail stock machines.
- Heat-treated point to HRC 60 ± 2.
- Draw-off nut type. (Help to easy release from tail-stock.)
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available Carbide Tipped Points DCC-TYPE

- MT3: 132003
- MT4: 132004
- MT5: 132005
- MT6: 132006

Dimension

Unit: mm. kg

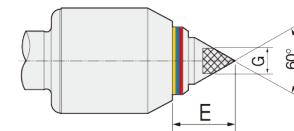
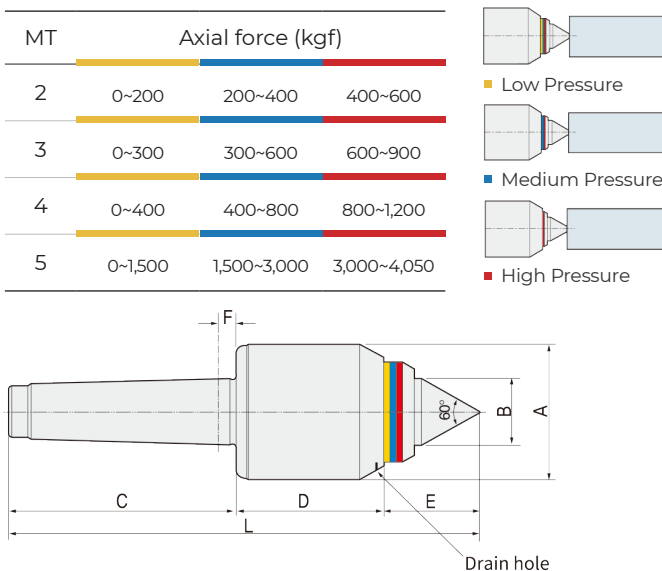
MODEL	MT	A	B	C	D	E	F	H	G	L	Weight	Max, Run out
131003 (132003)	3	50	24	82	16	42	59	40	10	140	0.8	0.002
131004 (132004)	4	60	32	104	24	47	72.5	43	14	175	1.3	0.002
131005 (132005)	5	80	45	131	30	60	93	58	18	221	3.0	0.002
131006 (132006)	6	100	60	187	30	72	107	78	30	289	6.9	0.002

*(MODEL NO) : Carbide Tip Type

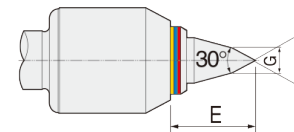
SD

FEATURES

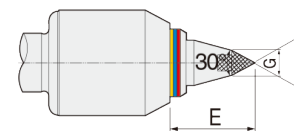
- Accuracy guaranteed to 0.005 TIR (0.0001")
- Excellent for complement to Face Driver.
- Automatic thrust adjustment and quick operation.
- Heat-treated point to HRc 60 ± 2.
- The axial force can easily be read off from a colored ring around the rotor: low, medium, high.
- Shock absorb performance for protecting spindle bearings from repetitive contact impact
- The high load dish spring is used to compensate for length variation 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 to prevent ingress of coolant.
- Carbide point available.
- Carbide point to HRA 90 ± 5.



Available **SDC-TYPE**



Available **SDL30-TYPE**



Available **SDL30C-TYPE**

Dimension

Unit: mm. kg

SD - Standard 60°													
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
101002 (102002)	2	45	20	68	48	29	6	10	145	400	5,000	1.2	0.005
101003 (102003)	3	52	25	85	54	34	6	10	173	700	4,000	1.2	0.005
101004 (102004)	4	65	32	108	70	45	8	14	223	1,200	3,000	2.4	0.005
101005 (102005)	5	94	55	136	88	70	8	18	294	2,000	2,000	6.4	0.005
SD - Extended 30°													
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, R.P.M	Weight	Max, Run Out
103002 (104002)	2	45	20	68	48	38	6	10	154	320	5,000	1.3	0.005
103003 (104003)	3	52	25	85	54	50	6	10	189	560	4,000	1.3	0.005
103004 (104004)	4	65	32	108	70	62	8	14	240	960	3,000	2.5	0.005
103005 (104005)	5	94	55	136	88	105	8	18	329	1,600	2,000	6.5	0.005

* (MODEL NO) : Carbide Tip Type

FACE DRIVER



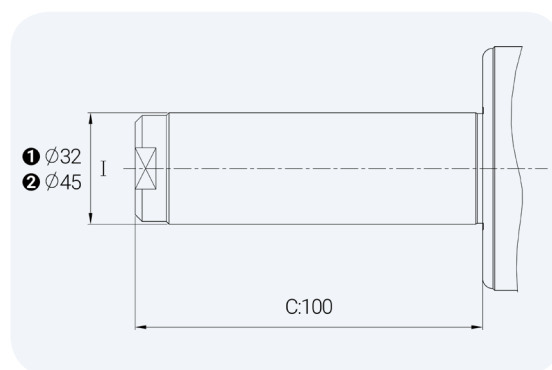
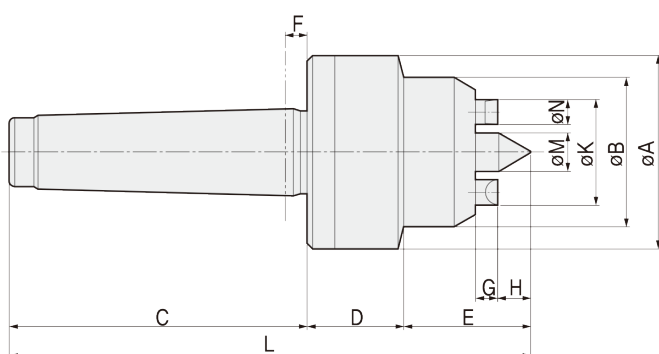
FACE DRIVER

FEATURES

- Accuracy guaranteed to 0.02 TIR (0.001")
- Excellent for turning machine and gear hobbing process.
- Only single clamping is needed to entire cutting process.
- Improve productivity in mass productions as well as high precision.
- Able to use at Head stock instead of clamping chuck.
- Keep the workpiece stable with no slippage even during heavy cuts.
- Nano technology finished drive pins offer superior life time.
- Wide range clamping capability.



Available Straight shank

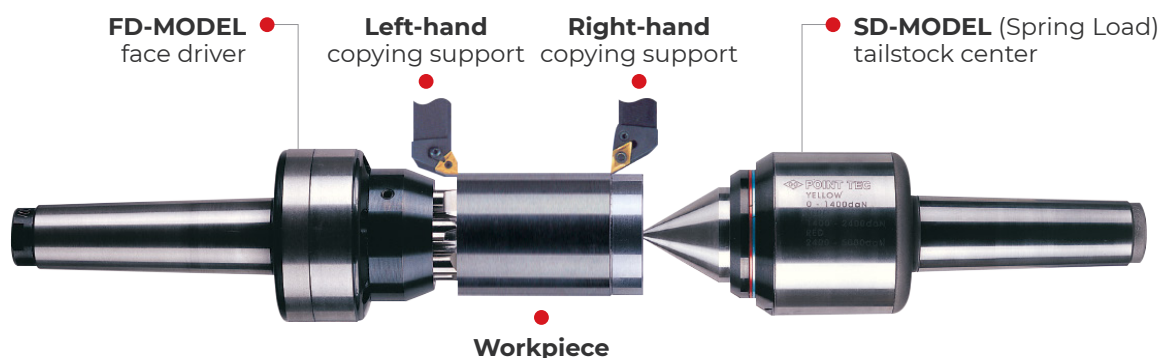


* order example : 0909ST45 = FD32 with straight shank Ø45

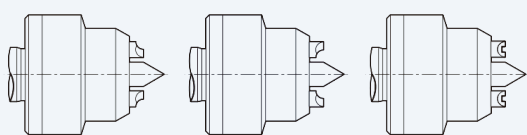
Dimension

Unit: mm. kg

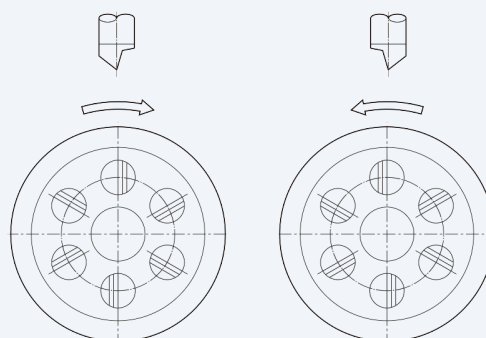
MODEL	MODEL NO.	MT	A	B	C	D	E	F	G	H	L	K	M	N	Number of driving pins	Work size	Workplece Weight	Weight	Max Run Out
FD31	090803	3	42	30	89	24.5	30.8	6	5	4.3	144.3	17	5	5	4	Ø19~Ø34	50	0.8	0.02
	090804	4	42	30	108	24.5	30.8	8	5	4.3	163.3	17	5	5	4	Ø19~Ø34	50	1.0	0.02
	090805	5	42	30	136	24.5	30.8	8	5	4.3	191.3	17	5	5	4	Ø19~Ø34	50	1.5	0.02
FD32	090903	3	52	40	89	26.5	35.8	6	6.5	7.8	151.3	26	9	7	5	Ø28~Ø50	55	1.0	0.02
	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	0.02
	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	0.02
FD33	091003	3	70	54	89	36	45	6	9	11	170	38	14	9	6	Ø40~Ø72	65	1.2	0.02
	091004	4	70	54	108	36	45	8	9	11	189	38	14	9	6	Ø40~Ø72	65	2.0	0.02
	091005	5	70	54	136	36	45	8	9	11	217	38	14	9	6	Ø40~Ø72	65	2.9	0.02
FD34	091104	4	82	72	108	40	56.1	8	11	14.1	204.1	54	20	14	6	Ø55~Ø100	100	3.1	0.02
	091105	5	82	72	136	40	56.1	8	11	14.1	232.1	54	20	14	6	Ø55~Ø100	100	3.9	0.02



Special drive pin styles

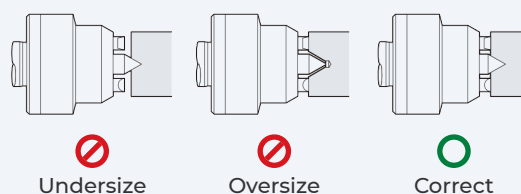


Driving pins direction of rotation

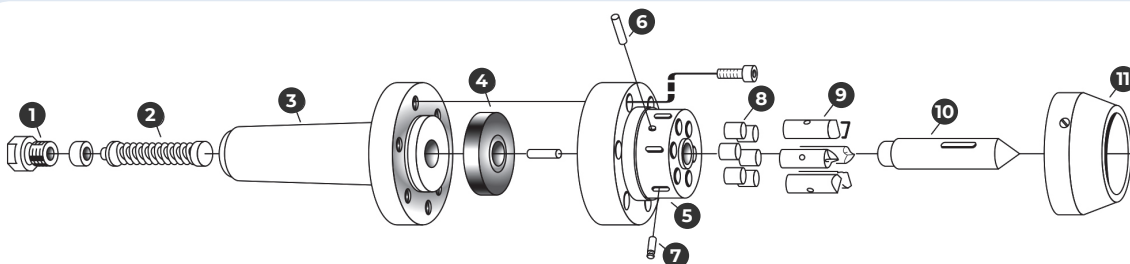


Center hole size

NO	MODEL	CENTER HOLE DIA. LIMITS			
		MIN(ϕ)		MAX(ϕ)	
		inch	mm	inch	mm
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



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 Center Point 11 Cover

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

PART NO.	PART NAME	FD31	FD32	FD33	FD34
9	Drive pin	90812	90912	91012	91112
10	Center point	90814	90914	91014	91114
11	Cover	90823	90923	91023	91123

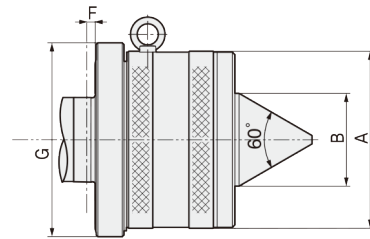
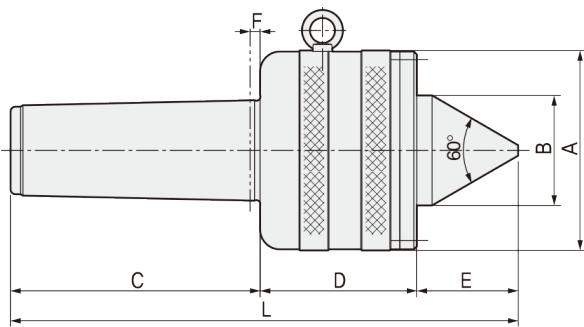
SUPER HEAVY LIVE CENTER



HS

FEATURES

- Accuracy guaranteed to 0.01 TIR (0.0004")
- Designed specifically for large and heavy-duty workpieces over 10tons
- Excellent for high load cutting operations on CNC lathe and grinding machine.
- 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.
- Available draw-off nut type, 75° angle point and 90° angle point.



Available Draw-off Nut Type
HSN-TYPE

Dimension

Unit: mm. kg

MODEL	TAPER	A	B	C	D	E	F	G	K	Workpiece Weight	Max. R.P.M	Weight	Max. Run Out
HS80	1/10	178	110	203	154	96.1	10	200	453.1	10,000	650	35	0.010
HS100	1/10	198	110	250	157	101.5	15	230	508.5	15,000	500	48.3	0.010
HS110	1/10	238	125	365	162.5	121.5	15	250	649	20,000	500	60	0.010
HS120	1/10	238	125	293	162.5	121.5	15	250	577	20,000	500	58	0.010
HS80	1/20	178	110	203	154	96.1	10	200	453.1	10,000	650	36.2	0.010
HS100	1/20	198	110	250	157	101.5	15	230	508.5	15,000	500	49.5	0.010
HS110	1/20	238	125	365	162.5	121.5	15	250	649	20,000	500	60	0.010
HS120	1/20	238	125	293	162.5	121.5	15	250	577	20,000	500	58	0.010

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

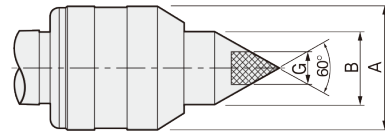
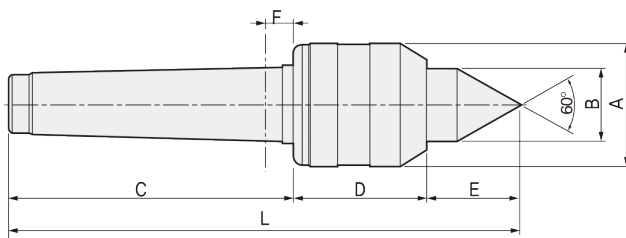
VALUE-TURN LIVE CENTER : Standard Type



BB

FEATURES

- Accuracy guaranteed to 0.003 TIR (0.0001")
- Excellent for light-medium-duty work on conventional lathe machines.
- Slim diameter improve tool clearance.
- Heat-treated point to HRC 60±2.
- Rear bearing is sealed, protecting assembly from coolant and chips.
- Carbide point available.
- Carbide point to HRA 90±5



Available Carbide Tipped Points BBC-TYPE

- MT3: 122003
- MT4: 122004
- MT5: 122005

Dimension

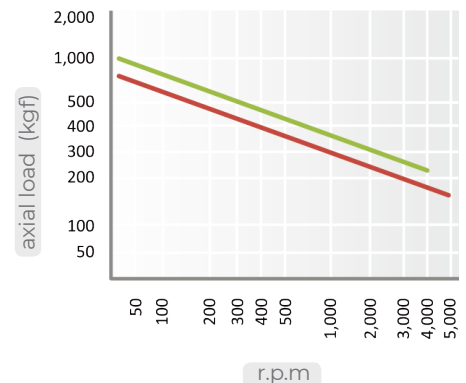
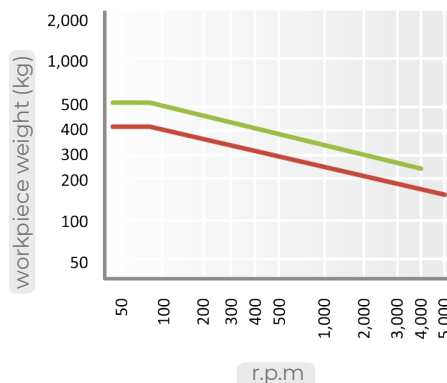
Unit: mm. kg

MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, Axial Load	Max, R.P.M	Weight	Max, Run Out
121003 (122003)	3	44.5	25	85	44	32.5	5.3	12	161.5	400	600	5,000	1	0.003
121004 (122004)	4	44.5	25	108	44	32.5	5.3	12	184.5	400	600	5,000	1.2	0.003
121005 (122005)	5	63	28	136	58	35	6.3	14	229	500	750	4,000	2.8	0.003

*(MODEL NO) : Carbide Tip Type

BB type Technical data

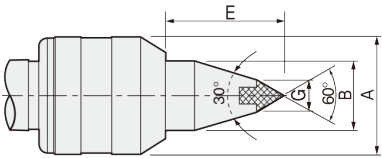
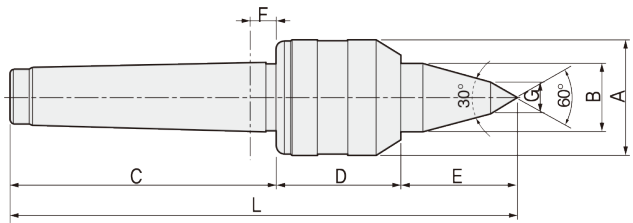
- 3,4BB
- 5BB



BBL30

FEATURES

- Accuracy guaranteed to 0.003 TIR (0.0001")
- Excellent for light-medium-duty work on conventional lathe machines.
- Slim diameter improve tool clearance.
- Heat-treated point to HRc 60±2.
- Rear bearing is sealed, protecting assembly from coolant and chips.
- Carbide point available.
- Carbide point to HRA 90±5



Available Carbide Tipped Points

BBL30C-TYPE

- MT3: 124003
- MT4: 124004
- MT5: 124005

Dimension

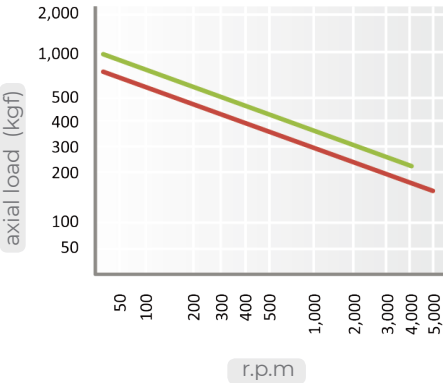
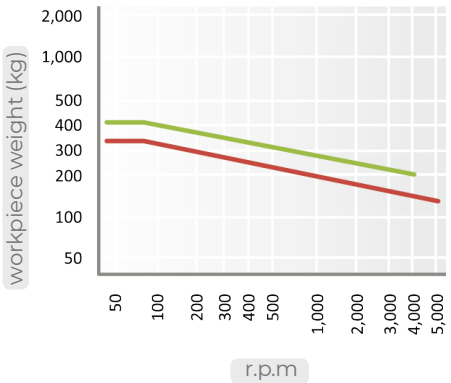
Unit: mm. kg

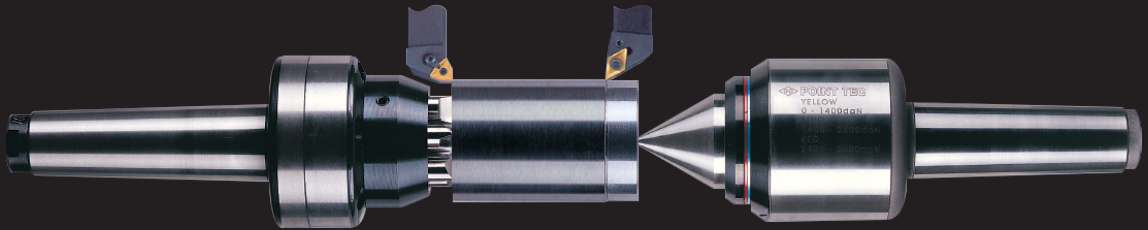
MODEL	MT	A	B	C	D	E	F	G	L	Workpiece Weight	Max, Axial Load	Max, R.P.M	Weight	Max, Run Out
123003 (124003)	3	44.5	22	85	44	36	5.3	12	165	320	600	5,000	1	0.003
123004 (124004)	4	44.5	22	108	44	36	5.3	12	188	320	600	5,000	1.2	0.003
123005 (124005)	5	63	28	136	58	44	6.3	14	238	400	750	4,000	3	0.003

* (MODEL NO) : Carbide Tip Type

BBL30 type Technical data

- 3,4BBL30
- 5BBL30





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