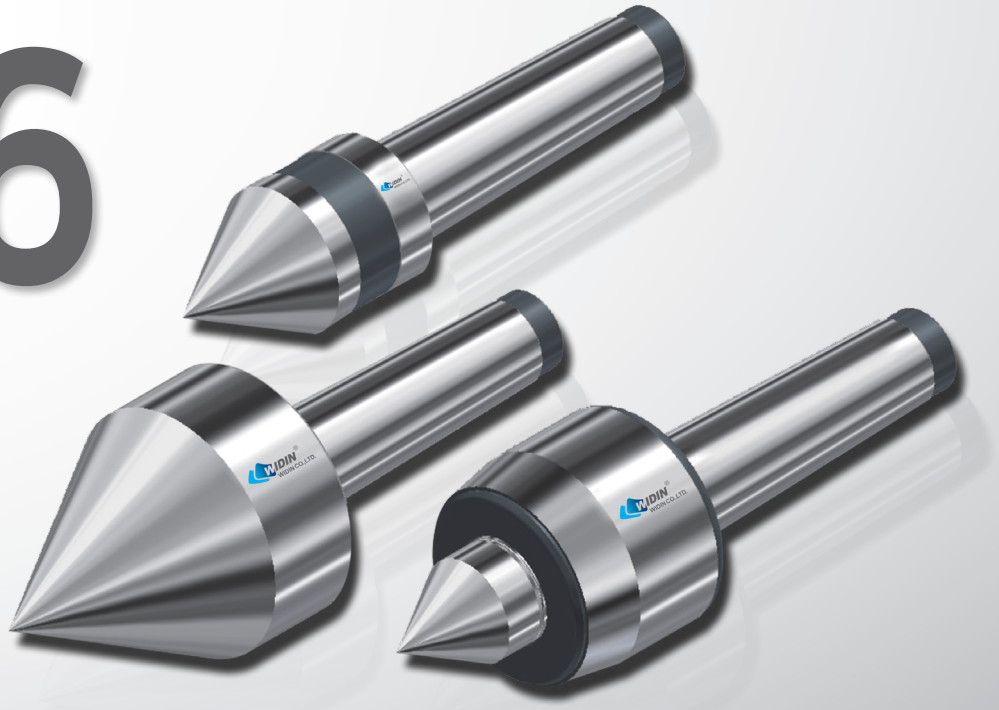
LIVE CENTER SERIES

2020▸2021
WIDIN
PRODUCTS

LIVE CENTER SERIES

06



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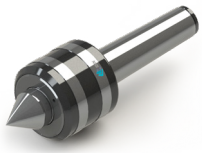
NK TYPE		428
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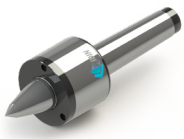
GR TYPE		431
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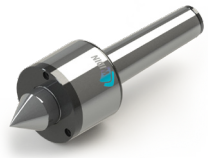
SMP TYPE		435
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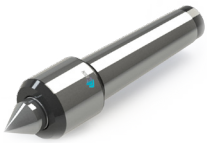
D50 TYPE		438
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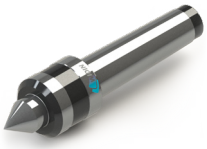
HD TYPE		440
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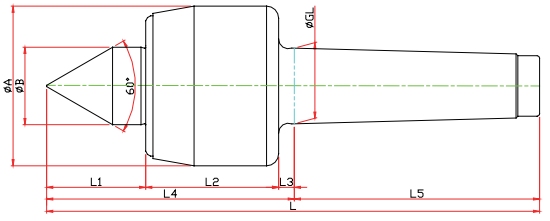
NC TYPE

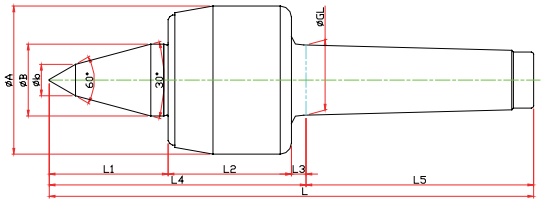
▶ NC-TYPE



Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-3NC	010003	NO.3	23.825	50	22	27	45	5	77	81	158	630	4800	0.003
LC-4NC	010004	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	204	1100	3800	0.003
LC-5NC	010005	NO.5	44.399	82	40	50	65	6.5	121.5	129.5	251	1600	3400	0.005
LC-6NC	010006	NO.6	63.384	105	45	54	80	8	142	182	324	2100	3000	0.005

▶ NCB-TYPE

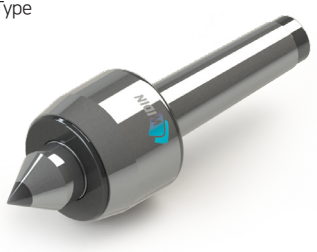
※ SHAFT EXTENTION(Minimize the bite-interference)

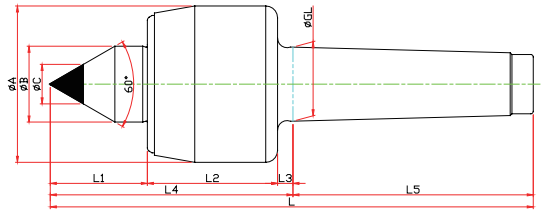


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	L			
LC-3NCB	011003	NO.3	23.825	50	22	10	47	45	5	97	81	178	630	4800	0.003
LC-4NCB	011004	NO.4	31.267	66	32	14	53	55	6.5	114.5	101.5	216	1100	3800	0.003
LC-5NCB	011005	NO.5	44.399	82	40	16	65	65	6.5	129.5	129.5	266	1600	3400	0.005
LC-6NCB	011006	NO.6	63.384	105	45	18	78	80	8	182	182	348	2100	3000	0.005

▶ NCC-TYPE

※ Carbide Type

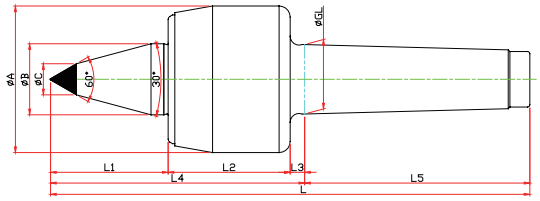




Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3NCC	010103	NO.3	23.825	50	22	27	45	5	77	81	10	158	630	4800	0.003
LC-4NCC	010104	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	14	204	1100	3800	0.003
LC-5NCC	010105	NO.5	44.399	82	40	50	65	6.5	121.5	129.5	18	251	1600	3400	0.005
LC-6NCC	010106	NO.6	63.384	105	45	54	80	8	142	182	25	324	2100	3000	0.005

▶ NCBC-TYPE

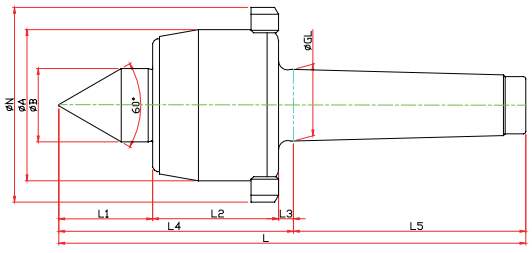
※ SHAFT EXTENTION(Minimize the bite-interference)
※ Carbide Type



Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3NCBC	011102	NO.3	23.825	50	22	47	45	5	97	81	10	178	630	4800	0.003
LC-4NCBC	011103	NO.4	31.267	66	32	53	55	6.5	114.5	101.5	14	216	1100	3800	0.003
LC-5NCBC	011104	NO.5	44.399	82	40	65	65	6.5	136.5	129.5	16	266	1600	3400	0.005
LC-6NCBC	011105	NO.6	63.384	105	45	78	80	8	166	182	18	348	2100	3000	0.005

▶ NCN-TYPE

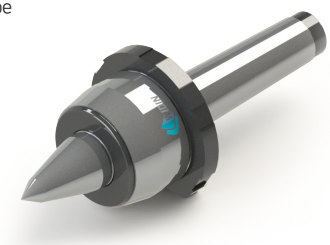
※ Nut Type

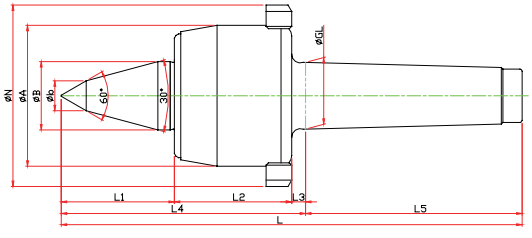


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	N	L			
LC-3NCN	010013	NO.3	23.825	50	22	27	45	5	77	81	70	158	630	4800	0.003
LC-4NCN	010014	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	85	204	1100	3800	0.003
LC-5NCN	010015	NO.5	44.399	82	40	50	65	6.5	121.5	129.5	105	251	1600	3400	0.005
LC-6NCN	010016	NO.6	63.384	105	45	54	80	8	142	182	130	324	2100	3000	0.005

▶ NCBN-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut Type



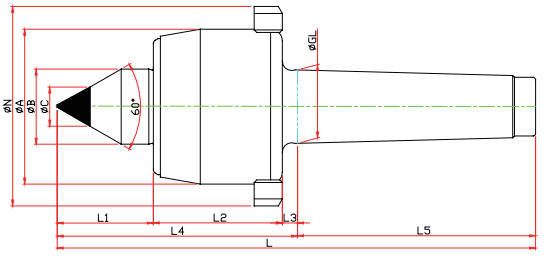


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	N	L			
LC-3NCBN	011013	NO.3	23.825	50	22	10	47	45	5	97	81	70	178	630	4800	0.003
LC-4NCBN	011014	NO.4	31.267	66	32	14	53	55	6.5	114.5	101.5	85	216	1100	3800	0.003
LC-5NCBN	011015	NO.5	44.399	82	40	16	65	65	6.5	136.5	129.5	105	266	1600	3400	0.005
LC-6NCBN	011016	NO.6	63.384	105	45	18	78	80	8	166	182	130	348	2100	3000	0.005

NC TYPE

▶ NCCN-TYPE

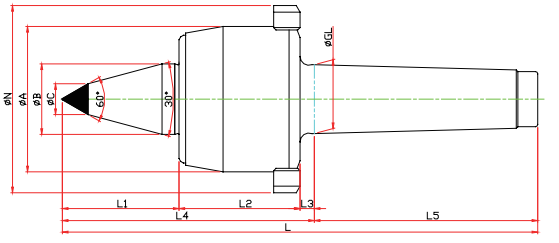
※ Nut, Carbide Type Type



Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	N	L			
LC-3NCCN		NO.3	23.825	50	22	27	45	5	77	81	10	70	158	630	4800	0.003
LC-4NCCN		NO.4	31.267	66	32	41	55	6.5	102.5	101.5	14	85	204	1100	3800	0.003
LC-5NCCN		NO.5	44.399	82	40	50	65	6.5	121.5	129.5	18	105	251	1600	3400	0.005
LC-6NCCN		NO.6	63.384	105	45	54	80	8	142	182	25	130	324	2100	3000	0.005

▶ NCBCN-TYPE

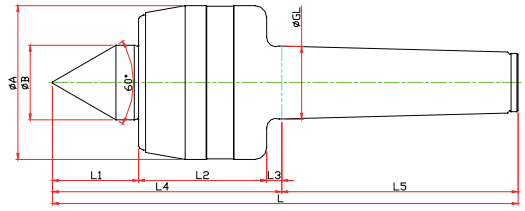
※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut, Carbide Type Type



Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	N	L			
LC-3NCBCN		NO.3	23.825	50	22	47	45	5	97	81	10	70	178	630	4800	0.003
LC-4NCBCN		NO.4	31.267	66	32	53	55	6.5	114.5	101.5	14	85	216	1100	3800	0.003
LC-5NCBCN		NO.5	44.399	82	40	65	65	6.5	136.5	129.5	16	105	266	1600	3400	0.005
LC-6NCBCN		NO.6	63.384	105	45	78	80	8	166	182	18	130	348	2100	3000	0.005

▶ NC-SPECIAL

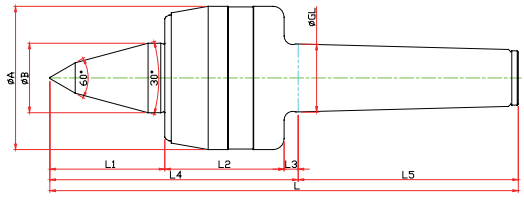
▶ NCP-TYPE



Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-3NCP	030003	NO.3	23.825	50	22	27	45	5	77	81	158	800	4800	0.003
LC-4NCP	030004	NO.4	31.267	66	32	37	55	6.5	98.5	101.5	200	1300	3800	0.003
LC-5NCP	030005	NO.5	44.399	82	40	45	65	6.5	116.5	129.5	246	1900	3400	0.005
LC-6NCP	030006	NO.6	63.384	100	45	65	80	8	153	182	335	2500	3000	0.005

▶ NCPB-TYPE

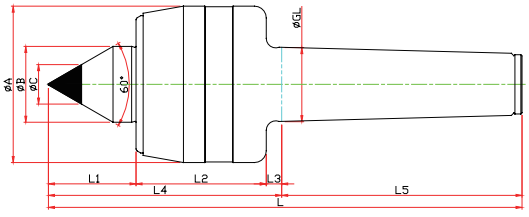
※ SHAFT EXTENTION(Minimize the bite-interference)



Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	L			
LC-3NCPB	031003	NO.3	23.825	50	22	10	27	45	5	97	81	178	800	4800	0.003
LC-4NCPB	031004	NO.4	31.267	66	32	14	37	55	6.5	114.5	101.5	216	1300	3800	0.003
LC-5NCPB	031005	NO.5	44.399	82	40	16	45	65	6.5	136.5	129.5	266	1900	3400	0.005
LC-6NCPB	031006	NO.6	63.384	100	45	18	65	80	8	166	182	348	2500	3000	0.005

▶ NCPC-TYPE

※ Carbide Type

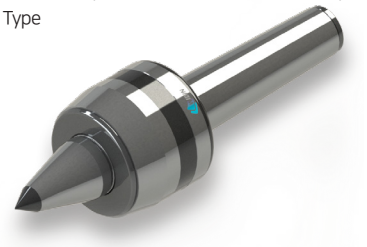


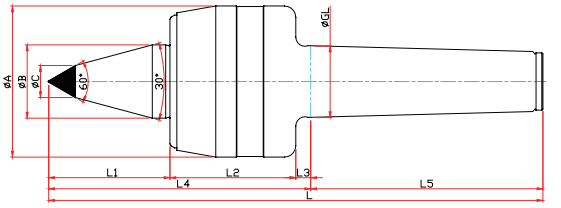
Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3NCPC	030103	NO.3	23.825	50	22	27	45	5	77	81	10	158	800	4800	0.003
LC-4NCPC	030104	NO.4	31.267	66	32	37	55	6.5	98.5	101.5	14	200	1300	3800	0.003
LC-5NCPC	030105	NO.5	44.399	82	40	45	65	6.5	116.5	129.5	18	246	1900	3400	0.005
LC-6NCPC	030106	NO.6	63.384	100	45	65	80	8	153	182	25	335	2500	3000	0.005

NCP TYPE

▶ NCPBC-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Carbide Type

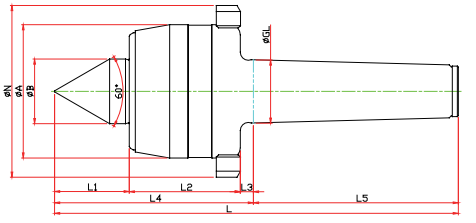




Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3NCPBC	031103	NO.3	23.825	50	22	27	45	5	97	81	10	178	800	4800	0.003
LC-4NCPBC	031104	NO.4	31.267	66	32	37	55	6.5	114.5	101.5	14	216	1300	3800	0.003
LC-5NCPBC	031105	NO.5	44.399	82	40	45	65	6.5	136.5	129.5	16	266	1900	3400	0.005
LC-6NCPBC	031106	NO.6	63.384	100	45	65	80	8	166	182	18	348	2500	3000	0.005

▶ NCPN-TYPE

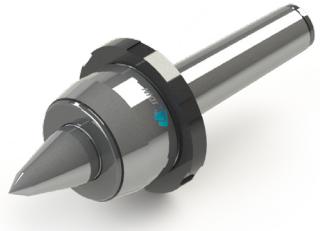
※ Nut Type

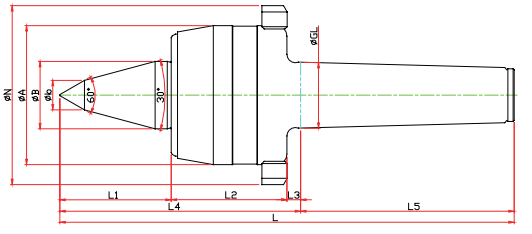


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	N	L			
LC-3NCPN	030013	NO.3	23.825	50	22	27	45	5	77	81	70	158	800	4800	0.003
LC-4NCPN	030014	NO.4	31.267	66	32	37	55	6.5	98.5	101.5	85	200	1300	3800	0.003
LC-5NCPN	030015	NO.5	44.399	82	40	45	65	6.5	116.5	129.5	105	246	1900	3400	0.005
LC-6NCPN	030016	NO.6	63.384	100	45	65	80	8	153	182	130	335	2500	3000	0.005

▶ NCPBN-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut Type

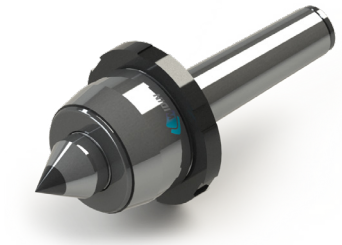


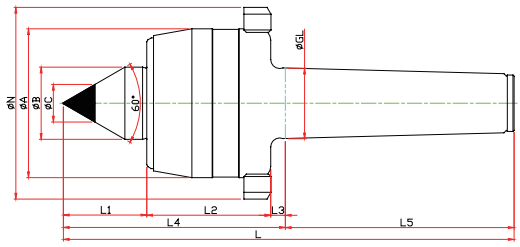


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	N	L			
LC-3NCPBN	031013	NO.3	23.825	50	22	10	47	45	5	97	81	70	178	800	4800	0.003
LC-4NCPBN	031014	NO.4	31.267	66	32	14	53	55	6.5	114.5	101.5	85	216	1300	3800	0.003
LC-5NCPBN	031015	NO.5	44.399	82	40	16	65	65	6.5	136.5	129.5	105	266	1900	3400	0.005
LC-6NCPBN	031016	NO.6	63.384	100	45	18	78	80	8	166	182	130	348	2500	3000	0.005

▶ NCPCN-TYPE

※ Nut, Carbide Type Type

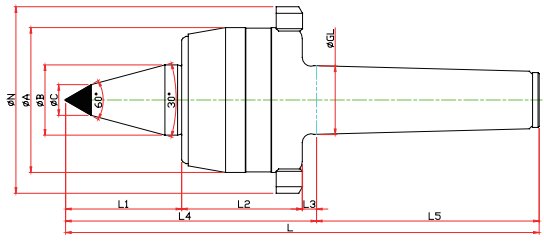




Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	N	L			
LC-3NCPCN	030113	NO.3	23.825	50	22	27	45	5	77	81	10	70	158	800	4800	0.003
LC-4NCPCN	030114	NO.4	31.267	66	32	37	55	6.5	98.5	101.5	14	85	200	1300	3800	0.003
LC-5NCPCN	030115	NO.5	44.399	82	40	45	65	6.5	116.5	129.5	18	105	246	1900	3400	0.005
LC-6NCPCN	030116	NO.6	63.384	100	45	65	80	8	153	182	25	130	335	2500	3000	0.005

▶ NCPBCN-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut, Carbide Type Type



Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	N	L			
LC-3NCPBCN	031113	NO.3	23.825	50	22	47	45	5	97	81	10	70	178	800	4800	0.003
LC-4NCPBCN	031114	NO.4	31.267	66	32	53	55	6.5	114.5	101.5	14	85	216	1300	3800	0.003
LC-5NCPBCN	031115	NO.5	44.399	82	40	65	65	6.5	136.5	129.5	16	105	266	1900	3400	0.005
LC-6NCPBCN	031116	NO.6	63.384	100	45	78	80	8	166	182	25	130	348	2500	3000	0.005

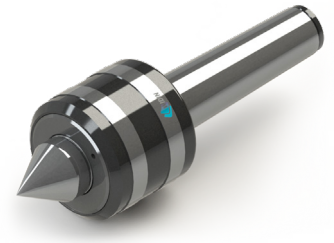
▶ NCP SPECIAL

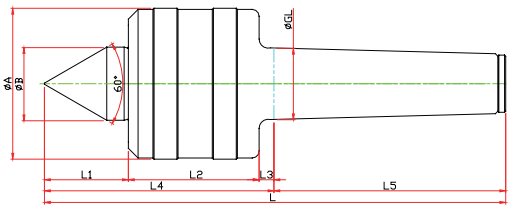
※ Customized-special production for user's condition

NK TYPE

▶ NK-TYPE

※ Center for heavy duty and Semi High Speed

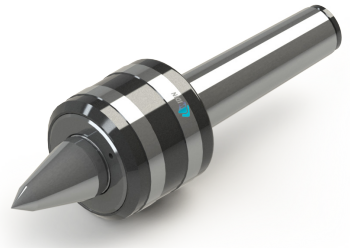


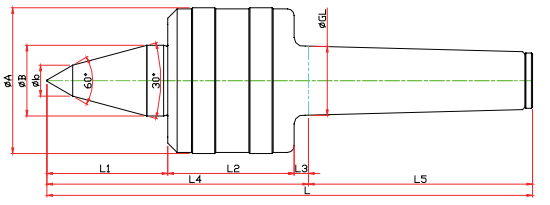


Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-3NK	020003	NO.3	23.825	52	22	29	42	5	76	80	156	1900	5000	0.003
LC-4NK	020004	NO.4	31.267	66	32	37	57	6.5	100.5	101.5	202	2700	3800	0.003
LC-5NK	020005	NO.5	44.399	80	40	45.5	57	6.5	109	129.5	238.5	3200	3400	0.005
LC-6NK	020006	NO.6	63.348	132	65	65	100	8	173	182	355	10000	1800	0.005
LC-7NK	020007	NO.7	83.058	168	72	84	128	10	222	250	427	17200	1200	0.005

▶ NKB-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)

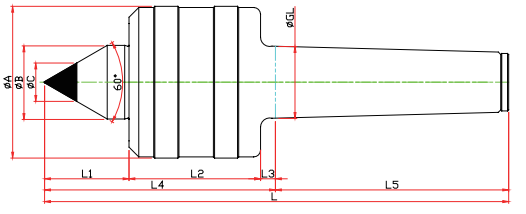




Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	L			
LC-3NKB	021003	NO.3	23.825	52	22	10	48	42	5	95	80	175	1900	5000	0.003
LC-4NKB	021004	NO.4	31.267	66	32	14	53	57	6.5	116.5	101.5	218	2700	3800	0.003
LC-5NKB	021005	NO.5	44.399	80	40	18	65.5	57	6.5	129	129.5	258.5	3200	3400	0.005
LC-6NKB	021006	NO.6	63.348	132	65	25	78	100	8	186	182	368	10000	1800	0.005

▶ NKC-TYPE

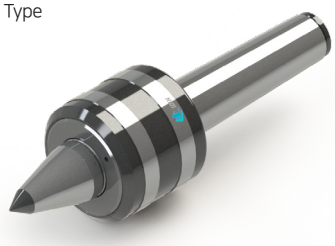
※ Carbide Type

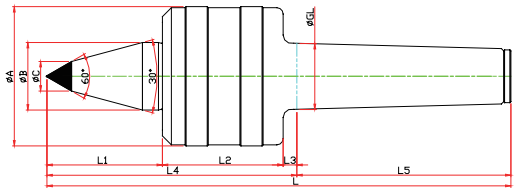


Model	Order Number	Morse Taper	Dimension											R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3NKC	020103	NO.3	23.825	52	22	29	42	5	76	80	10	156	1900	5000	0.003
LC-4NKC	020104	NO.4	31.267	66	32	37	57	6.5	100.5	101.5	14	202	2700	3800	0.003
LC-5NKC	020105	NO.5	44.399	80	40	45.5	57	6.5	109	129.5	18	238.5	3200	3400	0.005
LC-6NKC	020106	NO.6	63.348	132	65	65	100	8	173	182	25	355	10000	1800	0.005

▶ NKBC-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Carbide Type

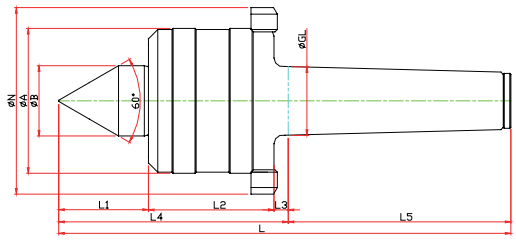




Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3NKBC	021103	NO.3	23.825	52	22	48	42	5	95	80	10	175	1900	5000	0.003
LC-4NKBC	021104	NO.4	31.267	66	32	53	57	6.5	116.5	101.5	14	218	2700	3800	0.003
LC-5NKBC	021105	NO.5	44.399	80	40	65.5	57	6.5	129	129.5	18	258.5	3200	3400	0.005
LC-6NKBC	021106	NO.6	63.348	132	65	78	100	8	186	182	25	368	10000	1800	0.005

▶ NKN-TYPE

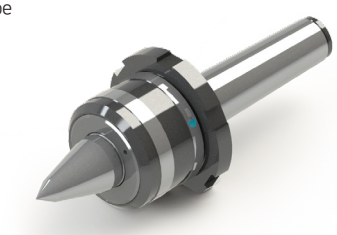
※ Nut Type

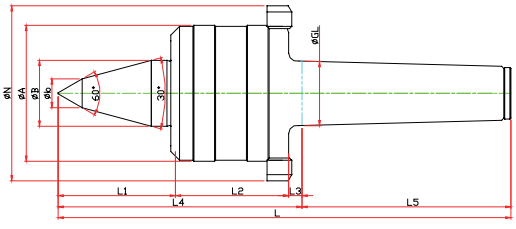


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	N	L			
LC-3NKN	020013	NO.3	23.825	52	22	29	42	5	76	80	70	156	1900	5000	0.003
LC-4NKN	020014	NO.4	31.267	66	32	37	57	6.5	100.5	101.5	85	202	2700	3800	0.003
LC-5NKN	020015	NO.5	44.399	80	40	45.5	57	6.5	109	129.5	98	238.5	3200	3400	0.005
LC-6NKN	020016	NO.6	63.348	132	65	65	100	8	173	182	165	355	10000	1800	0.005
LC-7NKN	020017	NO.7	83.058	168	72	84	128	10	222	250	210	427	17200	1200	0.005

▶ NKBN-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut Type



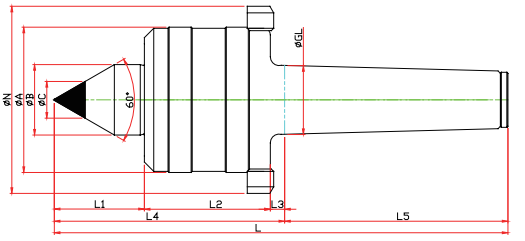


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	N	L			
LC-3NKBN	021013	NO.3	23.825	52	22	10	48	42	5	95	80	70	175	1900	5000	0.003
LC-4NKBN	021014	NO.4	31.267	66	32	14	53	57	6.5	116.5	101.5	85	218	2700	3800	0.003
LC-5NKBN	021015	NO.5	44.399	80	40	18	65.5	57	6.5	129	129.5	98	258.5	3200	3400	0.005
LC-6NKBN	021016	NO.6	63.348	132	65	25	78	100	8	186	182	165	368	10000	1800	0.005

NK TYPE

▶ NKCN-TYPE

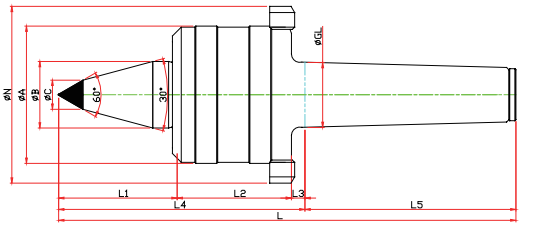
※ Nut, Carbide Type Type



Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	N	L			
LC-3NKCN	020113	NO.3	23.825	52	22	29	42	5	76	80	10	70	156	1900	5000	0.003
LC-4NKCN	020114	NO.4	31.267	66	32	37	57	6.5	100.5	101.5	14	85	202	2700	3800	0.003
LC-5NKCN	020115	NO.5	44.399	80	40	45.5	57	6.5	109	129.5	18	98	238.5	3200	3400	0.005
LC-6NKCN	020116	NO.6	63.348	132	65	65	100	8	173	182	25	165	355	10000	1800	0.005

▶ NKBCN-TYPE

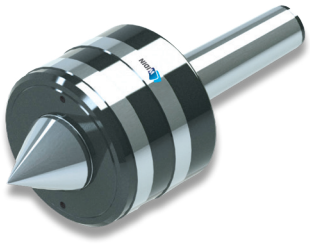
※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut, Carbide Type Type

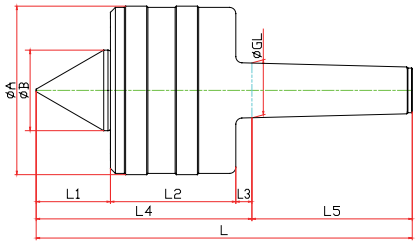


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	N	L			
LC-3NKBCN	021113	NO.3	23.825	52	22	48	42	5	95	80	10	70	175	1900	5000	0.003
LC-4NKBCN	021114	NO.4	31.267	66	32	53	57	6.5	116.5	101.5	14	85	218	2700	3800	0.003
LC-5NKBCN	021115	NO.5	44.399	80	40	65.5	57	6.5	129	129.5	18	98	258.5	3200	3400	0.005
LC-6NKBCN	021116	NO.6	63.348	132	65	78	100	8	186	182	25	165	368	10000	1800	0.005

NK TYPE

▶ NKD-TYPE

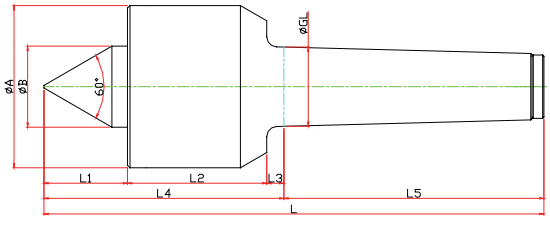




Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-5NKD	090005	NO.5	44.399	136	65	60	101	13	174	129.5	303.5	13000	3400	0.005
LC-6NKD	090006	NO.6	63.348	148	70	80	110.5	15	205.5	181	387.5	16000	1800	0.005
LC-7NKD	090007	NO.7	83.058	200	95	90	141	20	251	250	501	22000	1200	0.005

GR · SM TYPE

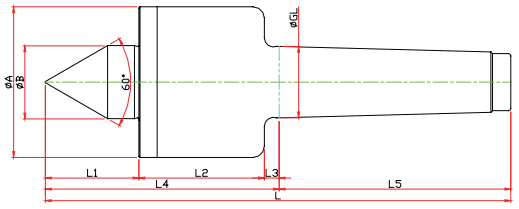
▶ GR-TYPE



Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-4GR	080004	NO.4	31.267	71	40	45	59.5	6.5	111	101.5	212.5	1300	7000	0.002
LC-5GR	080005	NO.5	44.399	88	50	45	66	6.5	117.5	129.5	247	3500	4500	0.002
LC-6GR	080006	NO.6	63.348	114	52	55	92	8	155	182	337	5000	3400	0.002
LC-7GR	080007	NO.7	83.058	200	98	78	132	10	200	250	470	20000	1900	0.002

GR · SM TYPE

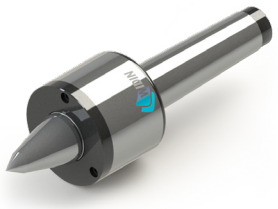
▶ SM-TYPE

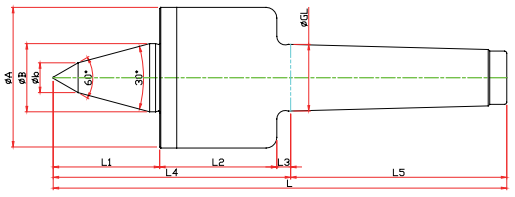


Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-3SM	040003	NO.3	23.825	52	22	30	51	5	86	81	167	330	12000	0.003
LC-4SM	040004	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	204	1100	10000	0.003
LC-5SM	040005	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	262	2200	8000	0.005

▶ SMB-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)

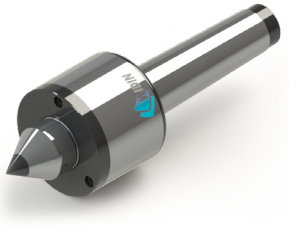


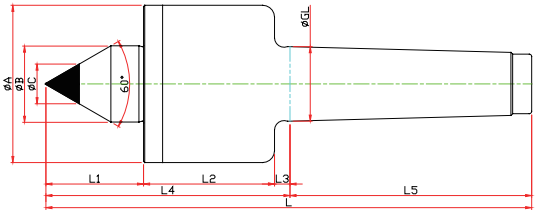


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	L			
LC-3SMB	041003	NO.3	23.825	52	22	10	40	51	5	96	81	177	330	12000	0.003
LC-4SMB	041004	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	213	1100	10000	0.003
LC-5SMB	041005	NO.5	44.399	82	40	16	65	75	6.5	146.5	129.5	276	2200	8000	0.005

▶ SMC-TYPE

※ Carbide Type

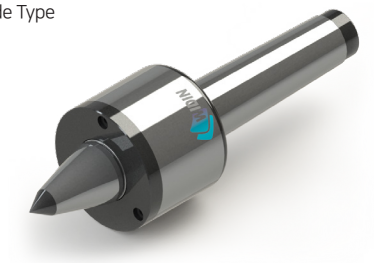


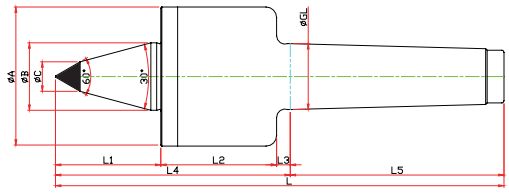


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3SMC	040103	NO.3	23.825	52	22	30	51	5	86	81	10	167	330	12000	0.003
LC-4SMC	040104	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	14	204	1100	10000	0.003
LC-5SMC	040105	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	18	262	2200	8000	0.005

▶ SMBC-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Carbide Type

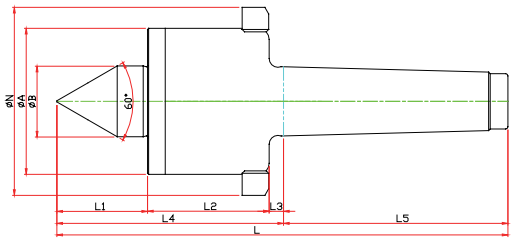




Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	C	L			
LC-3SMBC	041103	NO.3	23.825	52	22	10	40	51	5	96	81	10	177	330	12000	0.003
LC-4SMBC	041104	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	14	213	1100	10000	0.003
LC-5SMBC	041105	NO.5	44.399	82	40	16	65	75	6.5		129.5	16	276	2200	8000	0.005

▶ SMN-TYPE

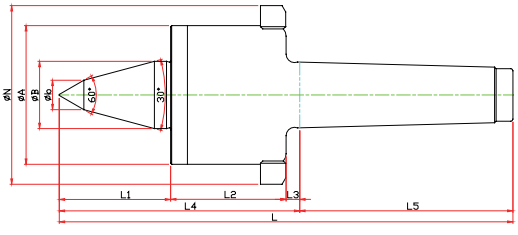
※ Nut Type



Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	N	L			
LC-3SMN	040013	NO.3	23.825	52	22	30	51	5	86	81	70	167	330	12000	0.003
LC-4SMN	040014	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	85	204	1100	10000	0.003
LC-5SMN	040015	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	105	262	2200	8000	0.005

▶ SMBN-TYPE

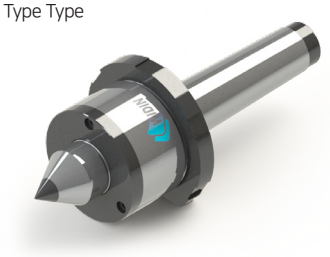
※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut Type

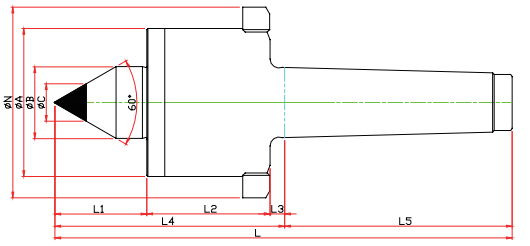


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	N	L			
LC-3SMBN	041013	NO.3	23.825	52	22	10	40	51	5	96	81	70	177	330	12000	0.003
LC-4SMBN	041014	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	85	213	1100	10000	0.003
LC-5SMBN	041015	NO.5	44.399	82	40	16	65	75	6.5	146.5	129.5	105	276	2200	8000	0.005

▶ SMCN-TYPE

※ Nut, Carbide Type Type

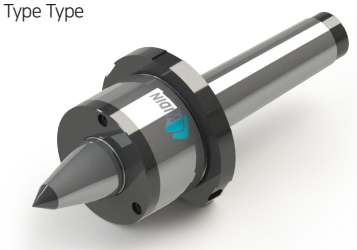


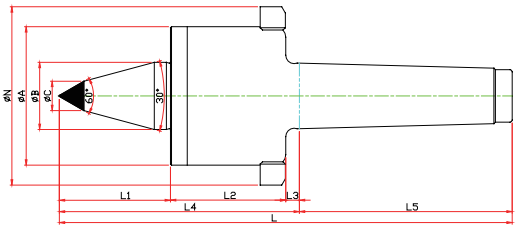


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	C	D	E	F	G	N	T	L			
LC-3SMCN	040113	NO.3	23.825	52	22	30	51	5	86	81	70	10	167	300	12000	0.003
LC-4SMCN	040114	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	85	14	204	1100	10000	0.003
LC-5SMCN	040115	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	105	16	262	2200	8000	0.005

▶ SMBCN-TYPE

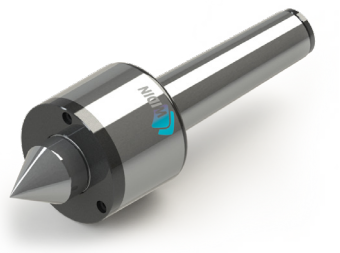
※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut, Carbide Type Type

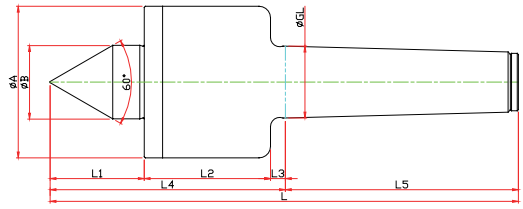




Model	Order Number	Morse Taper	Dimension												Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	C	N	L			
LC-3SMBCN	041113	NO.3	23.825	52	22	10	40	51	5	96	81	10	70	177	330	12000	0.003
LC-4SMBCN	041114	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	14	85	213	1100	10000	0.003
LC-5SMBCN	041115	NO.5	44.399	82	40	16	65	75	6.5	146.5	129.5	16	105	276	2200	8000	0.005

▶ SMP-TYPE

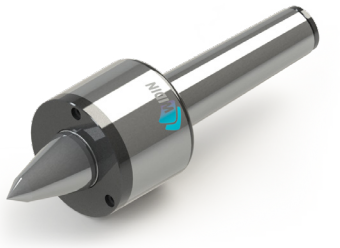


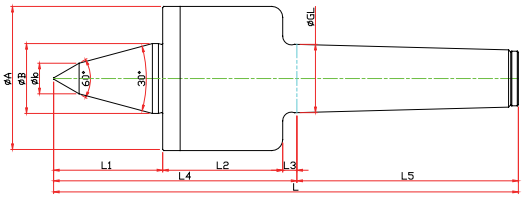


Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-3SMP	050003	NO.3	23.825	52	22	30	51	5	86	81	167	330	12000	0.003
LC-4SMP	050004	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	204	1100	10000	0.003
LC-5SMP	050005	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	262	2200	8000	0.005

▶ SMPB-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)

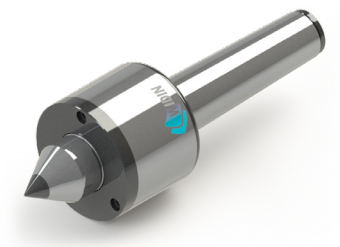


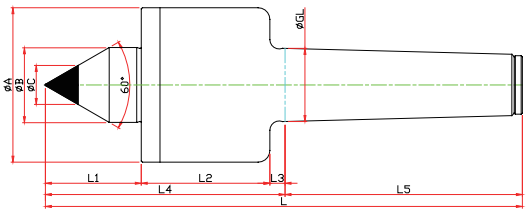


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	L			
LC-3SMPB	051003	NO.3	23.825	52	22	10	40	51	5	96	81	177	330	12000	0.003
LC-4SMPB	051004	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	213	1100	10000	0.003
LC-5SMPB	051005	NO.5	44.399	82	40	16	65	75	6.5	146.5	129.5	276	2200	8000	0.005

▶ SMPC-TYPE

※ Carbide Type



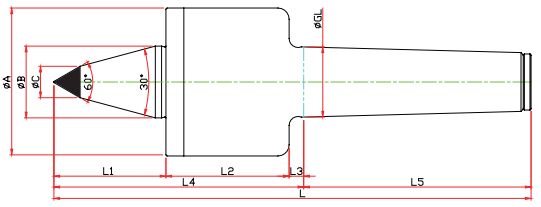


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3SMPC	050103	NO.3	23.825	52	22	30	51	5	86	81	10	167	330	12000	0.003
LC-4SMPC	050104	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	14	204	1100	10000	0.003
LC-5SMPC	050105	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	18	262	2200	8000	0.005

SMP TYPE

▶ SMPBC-TYPE

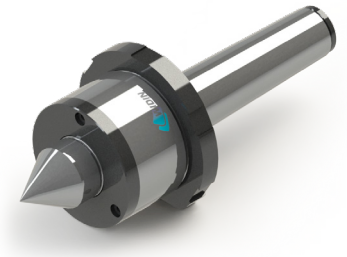
※ SHAFT EXTENTION(Minimize the bite-interference)
※ Carbide Type

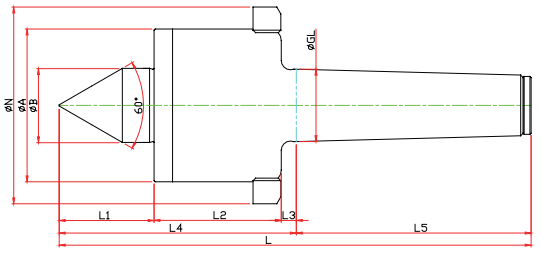


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	C	L			
LC-3SMPBC	051103	NO.3	23.825	52	22	10	40	51	5	96	81	10	177	330	12000	0.003
LC-4SMPBC	051104	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	14	213	1100	10000	0.003
LC-5SMPBC	051105	NO.5	44.399	82	40	16	65	75	6.5	146.5	129.5	18	276	2200	8000	0.005

▶ SMPN-TYPE

※ Nut Type

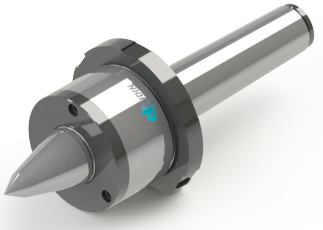


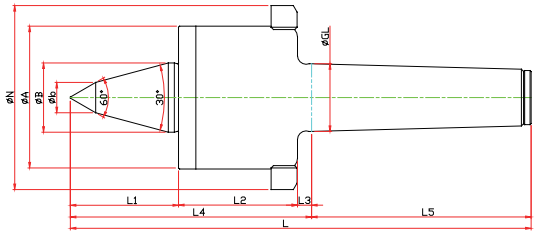


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	N	L			
LC-3SMPN	050013	NO.3	23.825	52	22	30	51	5	86	81	70	167	330	12000	0.003
LC-4SMPN	050014	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	85	204	1100	10000	0.003
LC-5SMPN	050015	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	105	262	2200	8000	0.005

▶ SMPBN-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut Type

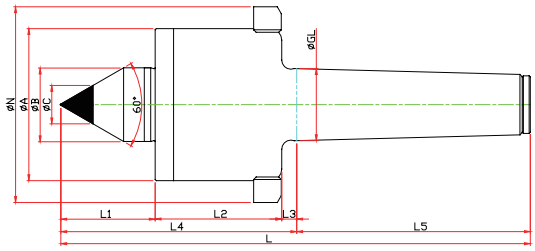




Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	N	L			
LC-3SMPBN	051013	NO.3	23.825	52	22	10	40	51	5	96	81	70	177	330	12000	0.003
LC-4SMPBN	051014	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	85	213	1100	10000	0.003
LC-5SMPBN	051015	NO.5	44.399	82	40	16	65	75	6.5	146.5	129.5	105	276	2200	8000	0.005

▶ SMPCN-TYPE

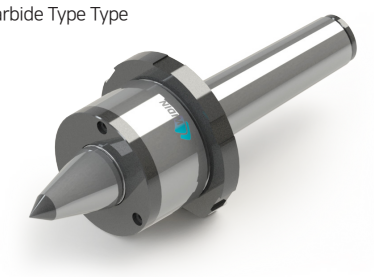
※ Carbide, Nut Type

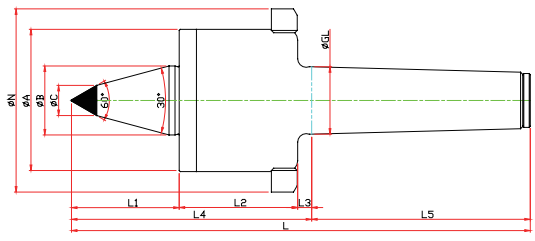


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	N	L			
LC-3SMPCN	050113	NO.3	23.825	52	22	30	51	5	86	81	10	70	167	330	12000	0.003
LC-4SMPCN	050114	NO.4	31.267	66	32	41	55	6.5	102.5	101.5	14	85	204	1100	10000	0.003
LC-5SMPCN	050115	NO.5	44.399	82	40	51	75	6.5	132.5	129.5	18	105	262	2200	8000	0.005

▶ SMPBCN-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Nut, Carbide Type Type

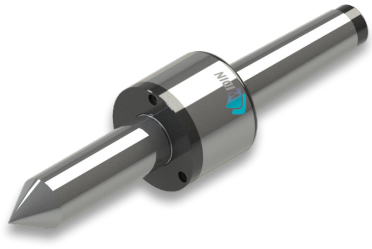




Model	Order Number	Morse Taper	Dimension												Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	C	N	L			
LC-3SMPBCN	051113	NO.3	23.825	52	22	10	40	51	5	96	81	10	70	177	330	12000	0.003
LC-4SMPBCN	051114	NO.4	31.267	66	32	14	50	55	6.5	111.5	101.5	14	85	213	1100	10000	0.003
LC-5SMPBCN	051115	NO.5	44.399	82	40	16	65	75	6.5	146.5	129.5	16	105	276	2200	8000	0.005

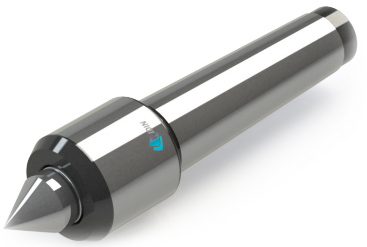
▶ SMP SPECIAL

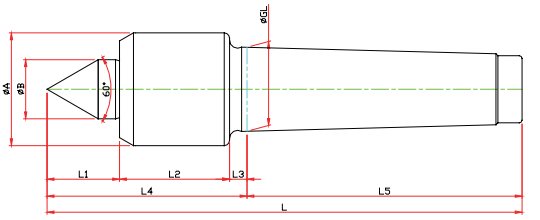
※ Customized-special production for user's condition



D50 TYPE

▶ D50-TYPE

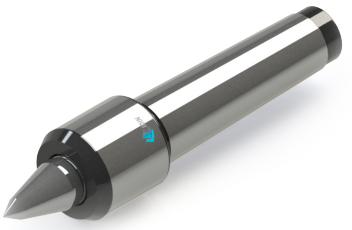


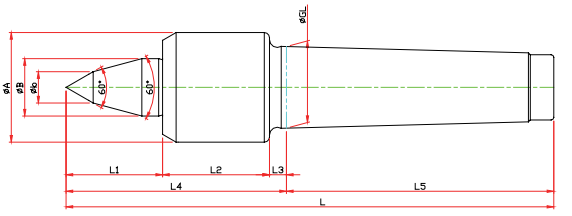


Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-3D50	080350	NO.3	23.825	34	22	21	38	5	64	81	145	400	4800	0.003
LC-4D50	080450	NO.4	31.267	42	22	27	41	6.5	74.5	102.5	177	800	3800	0.003
LC-5D50	080550	NO.5	44.399	58	32	35	60	6.5	101.5	129.5	231	1600	3400	0.005

▶ D50B-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)

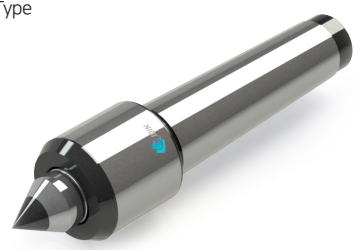


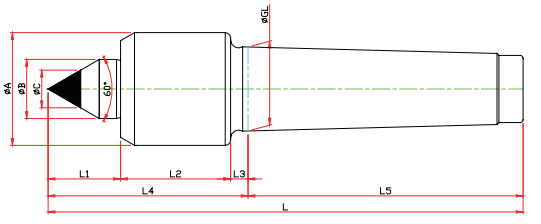


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	L			
LC-3D50B	082350	NO.3	23.825	34	22	10	25	38	5	72	81	153	400	4800	0.003
LC-4D50B	082450	NO.4	31.267	42	22	12	36	41	6.5	83.5	102.5	186.5	800	3800	0.003
LC-5D50B	082550	NO.5	44.399	58	32	16	53	60	6.5	119.5	129.5	249	1600	3400	0.005

▶ D50C-TYPE

※ Carbide Type

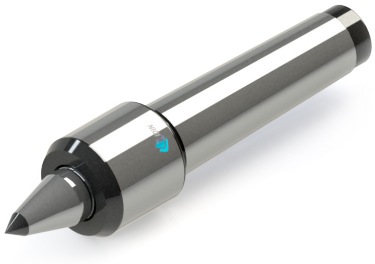


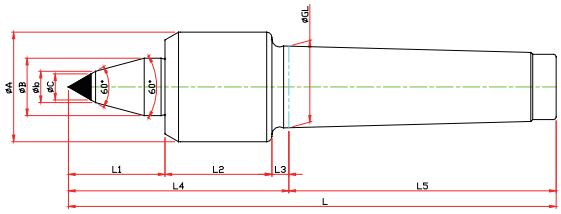


Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3D50C	081350	NO.3	23.825	34	22	21	38	5	64	81	10	145	400	4800	0.003
LC-4D50C	081450	NO.4	31.267	42	22	27	41	6.5	74.5	102.5	14	177	800	3800	0.003
LC-5D50C	081550	NO.5	44.399	58	32	60	60	6.5	101.5	129.5	18	231	1600	3400	0.005

▶ D50BC-TYPE

※ SHAFT EXTENTION(Minimize the bite-interference)
※ Carbide Type

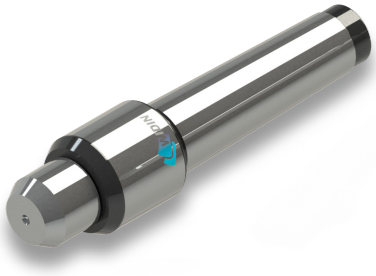


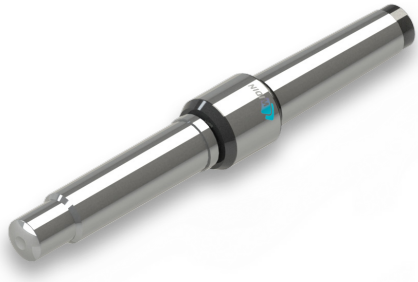


Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	C	L			
LC-3D50BC	083350	NO.3	23.825	34	22	10	25	38	5	72	81	8	153	400	4800	0.003
LC-4D50BC	083450	NO.4	31.267	42	22	12	36	41	6.5	83.5	102.5	10	186.5	800	3800	0.003
LC-5D50BC	083550	NO.5	44.399	58	32	16	53	60	6.5	119.5	129.5	14	249	1600	3400	0.005

▶ D50 SPECIAL

※ Customized-special production for user's condition

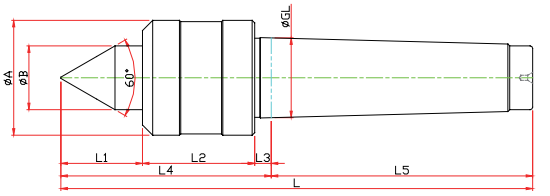




HD TYPE

▶ HD-TYPE

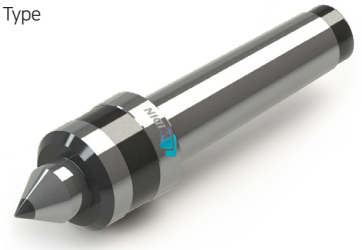
※ Economical live center

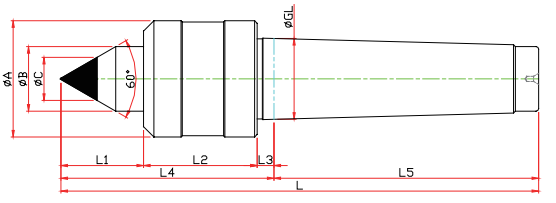


Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-1HD	070001	NO.1	12.065	34	15	21	37	3.5	61.5	53.5	115	120	5000	0.003
LC-2HD	070002	NO.2	17.780	40	18	24	37	5	66	64	130	140	4000	0.003
LC-3HD	070003	NO.3	23.825	45	25	32	44	5	81	81	162	190	3800	0.003
LC-4HD	070004	NO.4	31.267	45	25	32	44	6.5	82.5	102.5	185	190	3800	0.003
LC-5HD	070005	NO.5	44.399	78	38	47	66	6.5	119.5	129.5	249	350	2000	0.005
LC-6HD	070006	NO.6	63.384	102	55	62	82	8	152	182	334	1200	2000	0.005

▶ HDC-TYPE

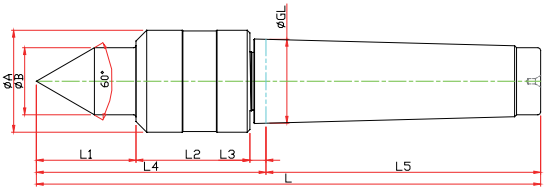
※ Carbide Type





Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3HDC	071003	NO.3	23.825	25	45	32	44	5	81	81	10	162	190	3800	0.003
LC-4HDC	071004	NO.4	31.267	25	45	32	44	6.5	82.5	102.5	14	185	190	3800	0.003
LC-5HDC	071005	NO.5	44.399	38	78	47	66	6.5	119.5	129.5	18	249	350	2000	0.005
LC-6HDC	071006	NO.6	63.384	55	102	62	82	8	152	182	25	334	1200	2000	0.005

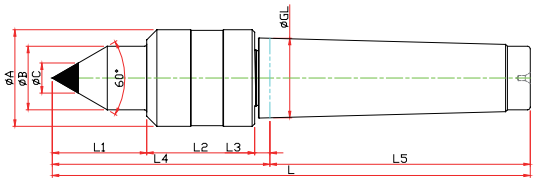
▶ HDS-TYPE



Model	Order Number	Morse Taper	Dimension									Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	L			
LC-2HDS	070012	NO.2	17.780	34	15	25	40	5	70	64	134	70	4500	0.003
LC-3HDS	070013	NO.3	23.825	36	18	27.5	40.5	5	73	81	154	80	4500	0.003
LC-4HDS	070014	NO.4	31.267	38	22	32	42.5	6	80.5	102.5	183	80	4500	0.003
LC-5HDS	070015	NO.5	44.399	64	30	47	56.5	10	113.5	129.5	243	230	2000	0.005
LC-6HDS	070016	NO.6	63.384	86	42	60	66.5	10	136.5	182	318.5	600	1500	0.005

▶ HDSC-TYPE

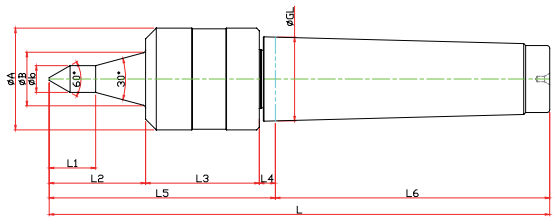
※ Economical live center
※ Suitable for lathe
※ Optimal RPM(below 3,800)



Model	Order Number	Morse Taper	Dimension										Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L5	C	L			
LC-3HDSC	071012	NO.3	23.825	36	18	27.5	40.5	5	73	81	10	154	80	4500	0.003
LC-4HDSC	071013	NO.4	31.267	38	22	32	42.5	6	80.5	102.5	14	183	80	4500	0.003
LC-5HDSC	071014	NO.5	44.399	64	30	47	56.5	10	113.5	129.5	18	243	230	2000	0.005
LC-6HDSC	071015	NO.6	63.384	86	42	60	66.5	10	136.5	182	30	318.5	600	1500	0.005

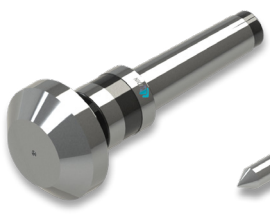
▶ HDSTH-TYPE

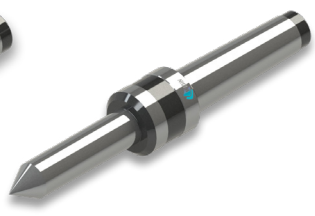
※ The type of thread milling
※ triplexed bearing fit
※ Structure resistant to coolant
※ Optimal RPM(below 3,800)



Model	Order Number	Morse Taper	Dimension											Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	b	L1	L2	L3	L4	L5	L6	L			
LC-3HDSTH-06	073011	NO.3	23.825	36	18	6	12.6	35	40.5	5	80.5	81	161.5	55	3800	0.003
LC-3HDSTH-08	073012					8	16.3									
LC-3HDSTH-10	073013					10	20.1									
LC-3HDSTH-12	073014					12	23.8									
LC-4HDSTH-06	074011	NO.4	31.267	38	20	6	10.1	36.2	40.5	6	84.5	102.5	187	65		
LC-4HDSTH-08	074012					8	13.9									
LC-4HDSTH-10	074013					10	17.6									
LC-4HDSTH-12	074014					12	21.3									
LC-5HDSTH-06	075011	NO.5	44.399	64	24	6	13.4	47	56.5	10	113.5	129.5	243	150		
LC-5HDSTH-08	075012					8	17.1									
LC-5HDSTH-10	075013					10	20.8									
LC-4HDSTH-12	075014					12	24.6									

▶ HD SPECIAL

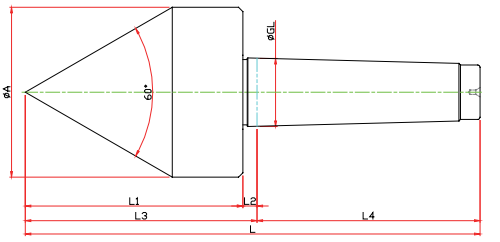




PT TYPE

▶ PT-60 TYPE

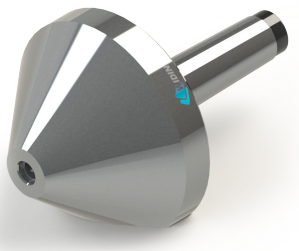
※ For PIPE machining
※ Optimal RPM(below 3,800)

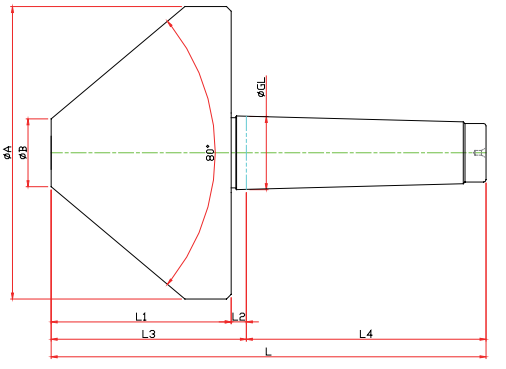


Model	Order Number	Morse Taper	Dimension							Weight MAX.	R.P.M MAX.	Run Out
			GL	A	L1	L2	L3	L4	L			
LC-2PT-60	066002	NO.2	17.780	44	66	5	71	64	135	70	4500	0.003
LC-3PT-60	066003	NO.3	23.825	56	78.5	5	83.5	81	164.5	80	4500	0.003
LC-4PT-60	066004	NO.4	31.267	78	100	6.5	106.5	101.5	208	80	4500	0.003
LC-5PT-60	066005	NO.5	44.399	98	125	6.5	131.5	129.5	261	230	2000	0.005
LC-6PT-60	066006	NO.6	63.384	118	154	8	162	182	344	600	1500	0.005

▶ PT-80 TYPE

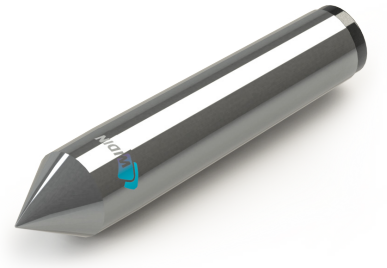
※ For PIPE machining
※ Optimal RPM(below 3,800)

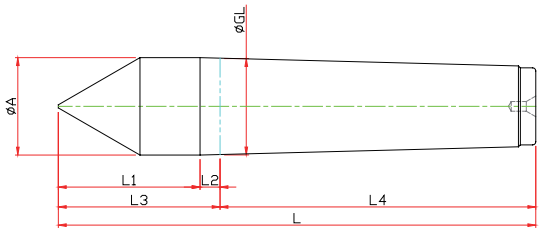




Model	Order Number	Morse Taper	Dimension								Weight MAX.	R.P.M MAX.	Run Out
			GL	A	B	L1	L2	L3	L4	L			
LC-3PT-80	068003	NO.3	23.825	95	20	66	5	65	81	146	190	3800	0.003
LC-4PT-80	068004	NO.4	31.267	125	29	77	6.5	83.5	102.5	185	190	3800	0.003
LC-5PT-80	068005	NO.5	44.399	150	32	90	6.5	96.5	129.5	226	350	2000	0.005
LC-6PT-80	068006	NO.6	63.384	200	38	120	8	128	182	310	1200	1500	0.005

▶ LM-A TYPE

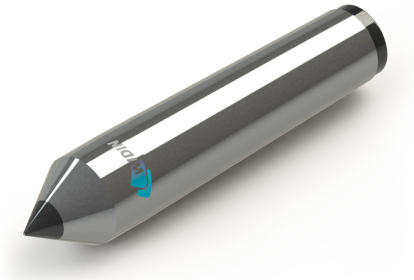


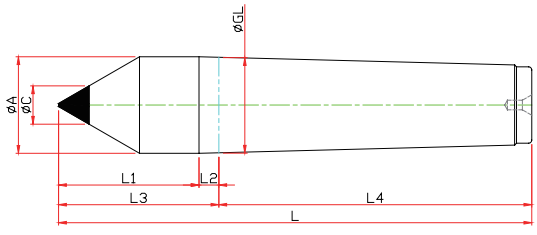


Model	Order Number	Morse Taper	Dimension							Run Out
			GL	A	L1	L2	L3	L4	L	
LM-1A	110001	NO.1	12.065	12.2	25	3.5	28.5	53.5	82	0.003
LM-2A	110002	NO.2	17.780	18	31	5	36	64	100	0.003
LM-3A	110003	NO.3	23.825	24	39	5	44	81	125	0.003
LM-4A	110004	NO.4	31.267	31.6	46	6.5	52.5	102.5	155	0.003
LM-5A	110005	NO.5	44.399	44.7	64	6.5	70.5	129.5	200	0.003
LM-6A	110006	NO.6	63.348	63.8	80	8	88	182	270	0.005
LM-7A	110007	NO.7	83.058	83.6	105	10	115	250	365	0.005

▶ LM-C TYPE

※ Carbide Type



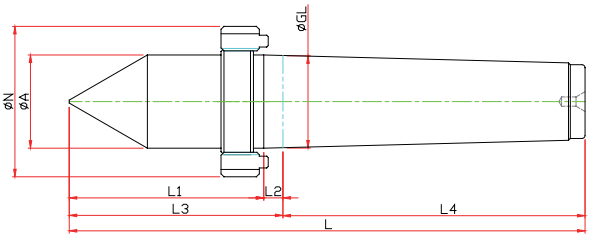


Model	Order Number	Morse Taper	Dimension								Run Out
			GL	A	L1	L2	L3	L4	C	L	
LM-1C	110101	NO.1	12.065	12.2	25	3.5	28.5	53.5	7	82	0.003
LM-2C	110102	NO.2	17.780	18	31	5	36	64	7	100	0.003
LM-3C	110103	NO.3	23.825	24	39	5	44	81	10	125	0.003
LM-4C	110104	NO.4	31.267	31.6	46	6.5	52.5	102.5	14	155	0.003
LM-5C	110105	NO.5	44.399	44.7	64	6.5	70.5	129.5	18	200	0.003
LM-6C	110106	NO.6	63.348	63.8	80	8	88	182	25	270	0.005
LM-7C	110107	NO.7	83.058	83.6	105	10	115	250	30	365	0.005

LM CENTER

▶ LM-AN TYPE

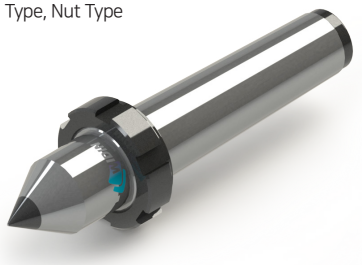
※ Nut Type

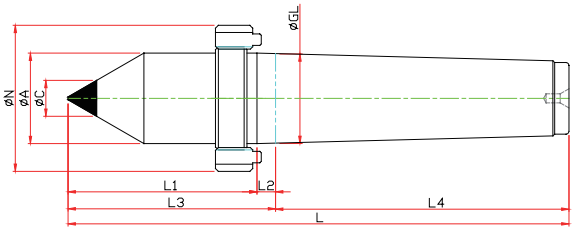


Model	Order Number	Morse Taper	Dimension								Run Out
			GL	A	L1	L2	L3	L4	N	L	
LM-1AN	110011	NO.1	12.065	12.2	31.5	5	36.5	53.5	M16	90	0.003
LM-2AN	110012	NO.2	17.780	18	41.5	6.5	48	64	M22	112	0.003
LM-3AN	110013	NO.3	23.825	24	49.5	7.5	57	81	M27	138	0.003
LM-4AN	110014	NO.4	31.267	31.6	62.5	10	72.5	102.5	M36	175	0.003
LM-5AN	110015	NO.5	44.399	44.7	77	11	88	129.6	M48	217.5	0.003
LM-6AN	110016	NO.6	63.348	63.8	96.5	11.5	108	182	M68	290	0.005
LM-7AN	110017	NO.7	83.058	83.6	108.5	11.5	120	250	M90	370	0.005

▶ LM-CN TYPE

※ Carbide Type, Nut Type

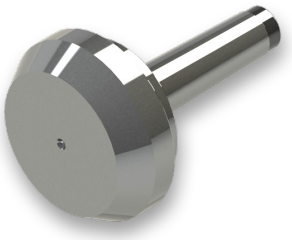


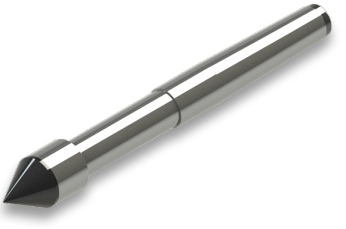


Model	Order Number	Morse Taper	Dimension									Run Out
			GL	A	L1	L2	L3	L4	C	N	L	
LM-1CN	110111	NO.1	12.065	12	31.5	5	36.5	53.5	7	M16	90	0.003
LM-2CN	110112	NO.2	17.780	18	41.5	6.5	48	64	7	M22	112	0.003
LM-3CN	110113	NO.3	23.825	24	49.5	7.5	57	81	10	M27	138	0.003
LM-4CN	110114	NO.4	31.267	32	62.5	10	72.5	102.5	14	M36	175	0.003
LM-5CN	110115	NO.5	44.399	45	77	11	88	129.5	18	M48	217.5	0.003
LM-6CN	110116	NO.6	63.348	64	96.5	11.5	108	182	18	M68	290	0.005

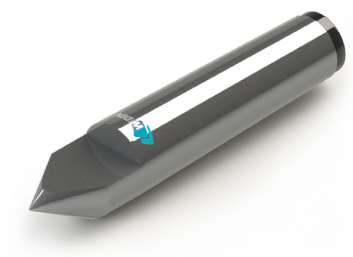
▶ LM SPECIAL

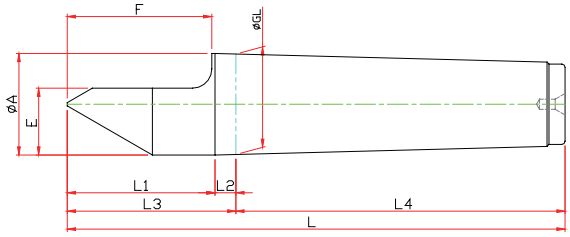
※ Customized-special production for user's condition





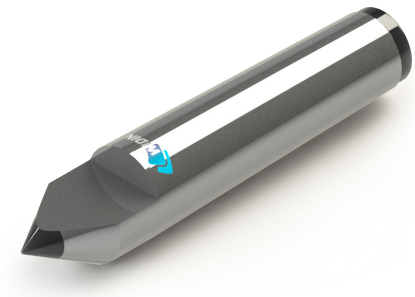
▶ LM-H TYPE

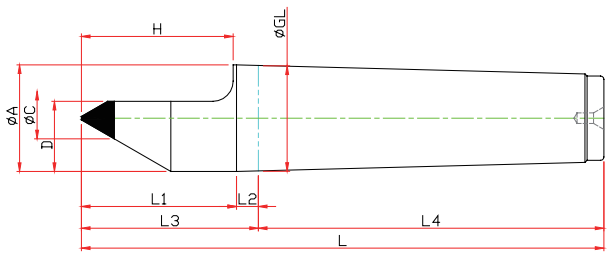




Model	Order Number	Morse Taper	Dimension									Run Out
			GL	A	L1	L2	L3	L4	E	F	L	
LM-1H	110001	NO.1	12.065	12.2	25	3.5	28.5	53.5	7.6	22	82	0.003
LM-2H	110002	NO.2	17.780	18	31	5	36	64	11	30	100	0.003
LM-3H	110003	NO.3	23.825	24	39	5	44	81	15	38	125	0.003
LM-4H	110004	NO.4	31.267	31.6	46	6.5	52.5	102.5	21	45	155	0.003
LM-5H	110005	NO.5	44.399	44.7	64	6.5	70.5	129.5	27.4	63	200	0.003
LM-6H	110006	NO.6	63.348	63.8	80	8	88	182	38.9	79	270	0.005

▶ LM-HC TYPE



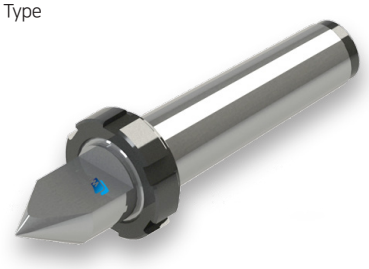


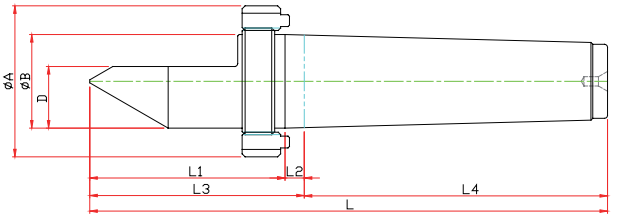
Model	Order Number	Morse Taper	Dimension										Run Out
			GL	A	L1	L2	L3	L4	C	D	H	L	
LM-1HC	210101	NO.1	12.065	12.2	25	3.5	28.5	53.5	7	7.6	22	82	0.003
LM-2HC	210102	NO.2	17.780	18	31	5	36	64	7	11	30	100	0.003
LM-3HC	210103	NO.3	23.825	24	39	5	44	81	10	15	38	125	0.003
LM-4HC	210104	NO.4	31.267	31.6	46	6.5	52.5	102.5	14	21	45	125	0.003
LM-5HC	210105	NO.5	44.399	44.7	64	6.5	70.5	129.5	18	27.4	63	200	0.003
LM-6HC	210106	NO.6	63.348	63.8	80	8	88	182	25	38.9	79	270	0.005

LM-H CENTER

▶ LM-HN TYPE

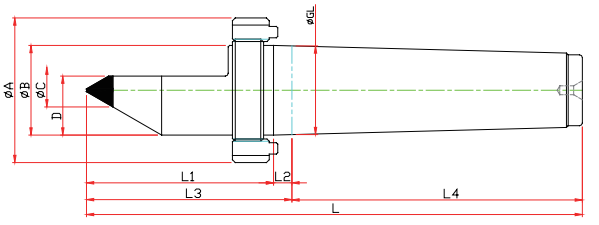
※ Nut Type





Model	Order Number	Morse Taper	Dimension										Run Out
			GL	A	L1	L2	L3	L4	D	E	N	L	
LM-1HN	210011	NO.1	12.065	12	31.5	5	36.5	53.5	7.6	22	M16	90	0.003
LM-2HN	210012	NO.2	17.780	18	41.5	6.5	48	64	11	30	M22	112	0.003
LM-3HN	210013	NO.3	23.825	24	49.5	7.5	57	81	15	38	M27	138	0.003
LM-4HN	210014	NO.4	31.267	32	62.5	10	72.5	102.5	21	50	M36	175	0.003
LM-5HN	210015	NO.5	44.399	45	77	11	88	129.5	29.4	63	M48	217.5	0.003
LM-6HN	210016	NO.6	63.348	64	96.5	11.5	108	182	42	79	M68	290	0.005

▶ LM-HCN TYPE



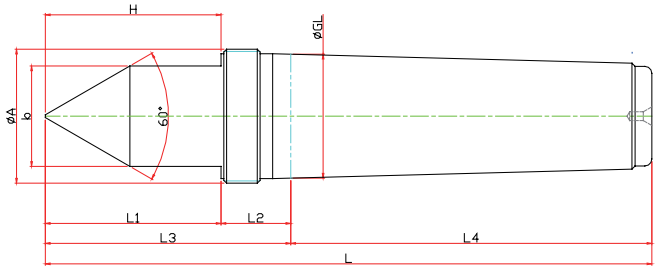
Model	Order Number	Morse Taper	Dimension											Run Out
			GL	A	L1	L2	L3	L4	C	D	E	N	L	
LM-1HCN	210111	NO.1	12.065	12	31.5	5	36.5	53.5	7	7.6	22	M16	90	0.003
LM-2HCN	210112	NO.2	17.780	18	41.5	6.5	48	64	7	11	30	M22	112	0.003
LM-3HCN	210113	NO.3	23.825	24	49.5	7.5	57	81	10	15	38	M27	138	0.003
LM-4HCN	210114	NO.4	31.267	32	62.5	10	72.5	102.5	14	21	50	M36	175	0.003
LM-5HCN	210115	NO.5	44.399	45	77	11	88	129.5	18	29.4	63	M48	217.5	0.003
LM-6HCN	210116	NO.6	63.348	64	96.5	11.5	108	182	18	42	79	M68	290	0.005

▶ LM-H SPECIAL

※ Customized-special production for user's condition

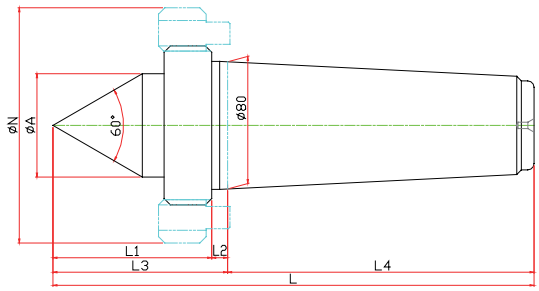
▶ LM-FN TYPE

※ Spanner Type



Model	Order Number	Morse Taper	Dimension									Run Out
			GL	A	b	L1	L2	L3	L4	E	L	
LM-1FN	120011	NO.1	12.065	12.2	10	25	3.5	28.5	53.5	22	82	0.003
LM-2FN	120012	NO.2	17.780	18	14	31	5	36	64	30	100	0.003
LM-3FN	120013	NO.3	23.825	24	19	39	5	44	81	38	125	0.003
LM-4FN	120014	NO.4	31.267	31.6	27	46	6.5	52.5	102.5	50	155	0.003
LM-5FN	120015	NO.5	44.399	44.7	36	64	6.5	70.5	129.5	53	200	0.003

▶ LM-#80 TYPE



Model	Order Number	Morse Taper	Dimension									Run Out
			GL	A	b	L1	L2	L3	L4	E	L	
#80-60	260010	1/10 TAPER	80	65	148	70	30	10	110	193	303	0.005
#80-75	275010	1/10 TAPER	80	65	148	70	30	10	110	193	303	0.005