

Riten®

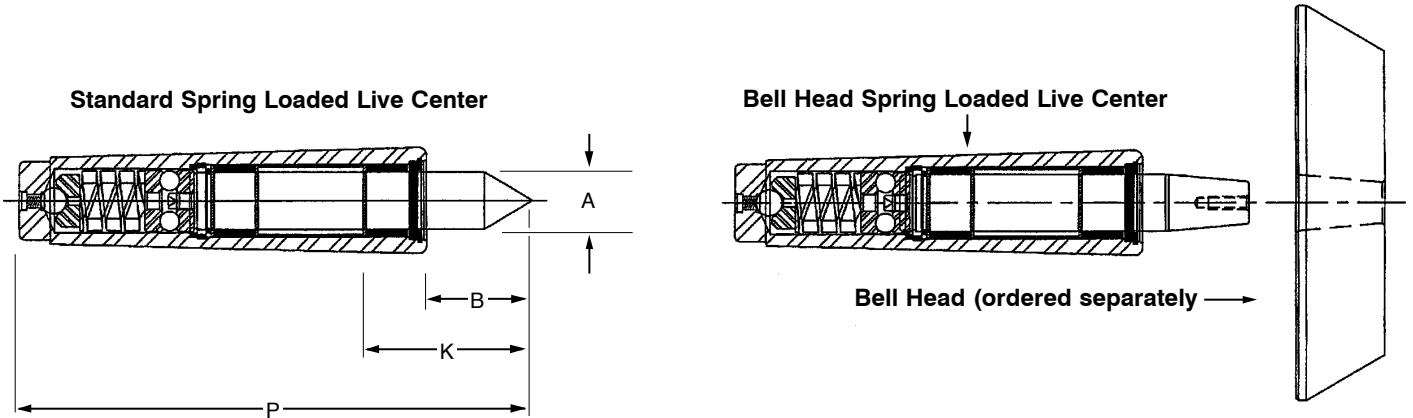
CONCENTRIC

Standard Spring Loaded and Interchangeable Bell Head Live Centers

- Accuracy to $\pm .0001$.
- Spring loaded spindle compensates for thermal expansion.
- Low profile - less overhang, added load capacity, and increased rigidity



Seventy-five years ago, Concentric pioneered and patented the first spring loaded live center. Today, this streamlined high precision center is available from Riten.



STANDARD POINT AND BELL HEAD								
Type	A	B	K*	P	Max Thrust Load	Max Spring Travel	Max W.P. Weight	Max RPM
II	0.378	0.88	1.38	3.95	173	0.094	274	3000
III	0.558	1.16	1.69	4.95	235	0.125	400	3000
IV	0.686	1.38	2.38	6.29	671	0.156	960	2000
V	1.075	2.00	2.88	8.02	844	0.188	1450	1500
VI	1.509	2.81	3.81	11.00	2183	0.188	2500	1500

* K: Gage line to point typical for Morse Tapers.

Special lubricating grease required for Concentric centers:

14.5 oz. tube, part no. 17991
 Heavy duty grease gun, part no. 17990
 Low profile grease gun nozzle - # Z737, part no. 17993

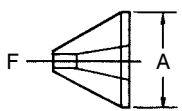
Standard Spring Loaded Live Centers

TYPE II		TYPE III		TYPE IV		TYPE V		TYPE VI	
Taper	Part No.	Taper	Part No.	Taper	Part No.	Taper	Part No.	Taper	Part No.
2 MT	17102	3 MT	17103	4 MT	17104	5 MT	17105	6 MT	17106
7 B&S	17407	9 B&S	17409	10 B&S	17410	12 B&S	17412	15 B&S	17415
8 B&S	17408	8 Jarno	17208	11 B&S	17411	13 B&S	17413	16 B&S	17416
6 Jarno	17206	9 Jarno	17209	10 Jarno	17210	14 B&S	17414	20 Jarno	17220
7 Jarno	17207	1 SS	17303	11 Jarno	17211	14 Jarno	17214	22 Jarno	17222
5/8 SS	17301	11/16 SS	17304	12 Jarno	17212	16 Jarno	17216	21/4 SS	17309
3/4 SS	17302	11/4 SS	17305	11/2 SS	17306	13/4 SS	17307	21/2 SS	17310
						2 SS	17308	3 SS	17311

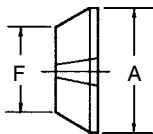
Bell Head Spring Loaded Live Centers

TYPE II		TYPE III		TYPE IV		TYPE V		TYPE VI	
Taper	Part No.	Taper	Part No.	Taper	Part No.	Taper	Part No.	Taper	Part No.
2 MT	17122	3 MT	17123	4 MT	17124	5 MT	17125	6 MT	17126
7 B&S	17427	9 B&S	17429	10 B&S	17430	12 B&S	17432	15 B&S	17435
8 B&S	17428	8 Jarno	17228	11 B&S	17431	13 B&S	17433	16 B&S	17436
6 Jarno	17226	9 Jarno	17229	10 Jarno	17230	14 B&S	17434	20 Jarno	17240
7 Jarno	17227	1 SS	17323	11 Jarno	17231	14 Jarno	17234	22 Jarno	17242
5/8 SS	17321	11/16 SS	17324	12 Jarno	17232	16 Jarno	17236	21/4 SS	17329
3/4 SS	17322	11/4 SS	17325	11/2 SS	17326	13/4 SS	17327	21/2 SS	17330
						2 SS	17328	3 SS	17331

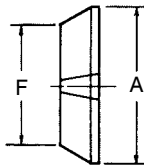
Interchangeable Bell Head Adapters



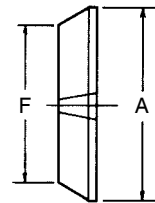
Style 1



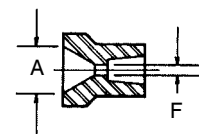
Style 2



Style 3



Style 4



Style 5 Female Head

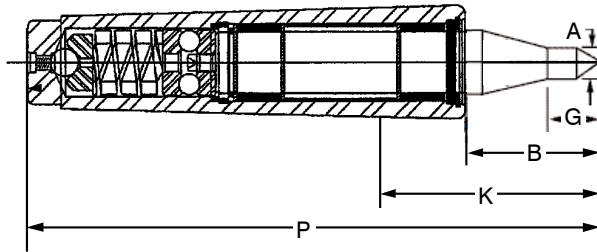
Center Type	STYLE 1			STYLE 2			STYLE 3			STYLE 4			STYLE 5		
	Part No.	A	F	Part No.	A	F	Part No.	A	F	Part No.	A	F	Part No.	A	F
II	00231	1.31	0.25	00232	1.82	1.24	00233	2.44	1.75	00234	2.84	2.26	00235	0.76	0.13
III	00331	1.83	0.35	00332	2.58	1.72	00333	3.32	2.46	00334	4.06	3.20	00335	1.12	0.19
IV	00431	2.27	0.36	00432	3.25	2.17	00433	4.22	3.14	00434	5.19	4.11	00435	1.37	0.23
V	00531	3.33	0.51	00532	4.80	3.21	00533	6.19	4.60	00534	7.65	6.06	00535	2.00	0.38
VI	00631	5.12	0.68	(Contact factory for availability).											

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Long Point Spring Loaded Live Centers

- Accuracy to $\pm .0001$.
- Spring loaded spindle compensates for thermal expansion.
- Low profile - less overhang, added load capacity, and increased rigidity



LONG POINT							
Type	A	G	K*	Max Thrust Load	Max Spring Travel	Max W.P. Weight	Max RPM
II	0.188	0.35	1.38	173	0.094	150	3000
III	0.250	0.47	1.69	235	0.125	260	3000
IV	0.375	0.70	2.38	671	0.156	580	2000
V	0.500	0.94	3.63	844	0.188	1100	1500
VI	(Contact factory for availability)						

*K: Gage line to point typical for Morse Tapers.

TYPE II	
Taper	Part No.
2 MT	17162
5/8	17361
3/4	17362
XX	XXXXXX

TYPE III	
Taper	Part No.
3 MT	17163
1 SS	17363
1 1/4 SS	17365
XX	XXXXXX

TYPE IV	
Taper	Part No.
4 MT	17164
1 1/2	17366
XX	XXXXXX
XX	XXXXXX

TYPE V	
Taper	Part No.
5 MT	17165
XX	XXXXXX
XX	XXXXXX
XX	XXXXXX