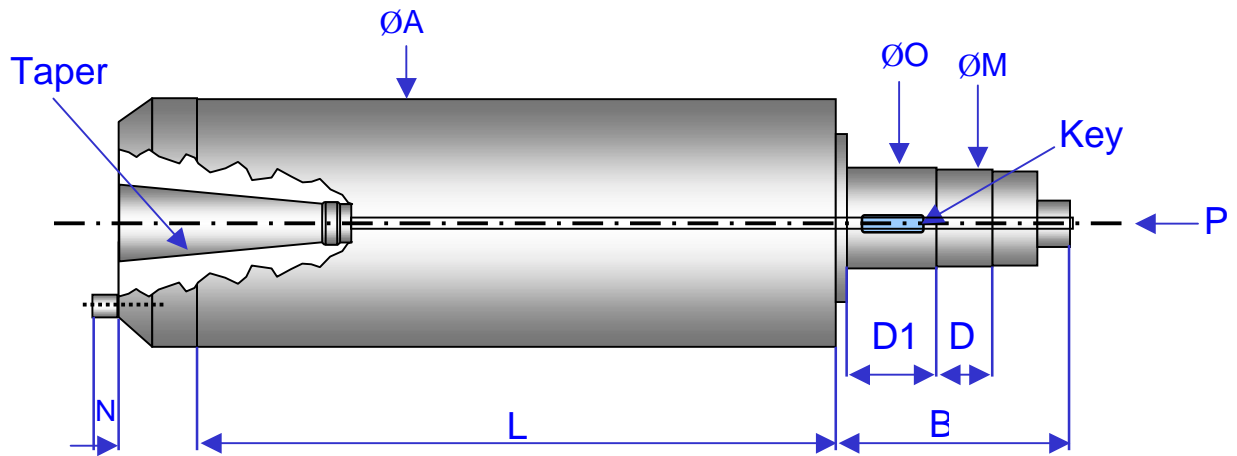




**SPINDLE TYPE FR-ISO WITH DRAWBAR SYSTEM**  
 ALL CRITICAL PARTS ARE HARDENED AND GROUND.  
 ALL SPINDLES ARE BALANCED.



TYPE	TAPER	A	O	M	N	L	B	D	D1	KEY	P=dN	T/MIN
FR-038070	ISO10	38									Man	22,000
FR-045128	ISO10	45									Man	
FR-045192	ISO10	45	25			181	93				Auto	16,000
FR-060127	ISO25	60	28	28x1	7	138	87	22	48	6x30	110	16,000
FR-060162	ISO25	60	28	28x1	7	168	72	16	51	6x25	90	16,000
FR-060187	ISO25	60	25	28x1	7	201	87	22	48	6x30	110	16,000
FR-060230	ISO25										Man	
FR-070136	ISO25	70	27	27x1	7	150	70	17	10	6x10	180	16,000
FR-070154	ISO25	70	35	35x1	7	169	114	20	84	6x30	300	16,000
FR-070184	ISO25	70	35	34x1	7	199	94	20	65	6x30	310	16,000
FR-075154	ISO25	75	35	34x1.5	7	169	114	20	84	6x30	300	14,000
FR-075184	ISO25	75	35	34x1.5	8	199	94	20	65	6x30	300	14,000
FR-075193	ISO30	75	33	33x1		188		31	33	6x32	300	12,000
FR-080193	ISO30	80	33	33x1		188		31	33	6x32	300	12,000
FR-080198	ISO30	80	35	34x1.5	8	194	78	20	48	6x30	300	14,000
FR-085189	ISO30	85	35	35x1.5	8	189	59		43		Man	12,000
FR-100160	ISO30	100	30		8	159	80	1	50		Man	12,000
FR-100280	ISO30	100	40								540	7,000
FR-120400	ISO40	120	40			400	141				800	10,000
FR-135332	ISO40	135	55	55x1.5		332	176	24	70	16x70	1200	8,500
FR-130460	ISO50	130	70	70x1.5		440	139	22	50	20x50	2200	7,800

ALL DIMENSIONS IN <MM>

Centerline, Inc.

2110 North Ash  
 Ponca City, OK 74601

Ph: (580) 762-5451  
 (800) 696-2865  
 Fax: (580) 762-4722

Email: info@centerline-inc.com  
 Website: www.centerline-inc.com