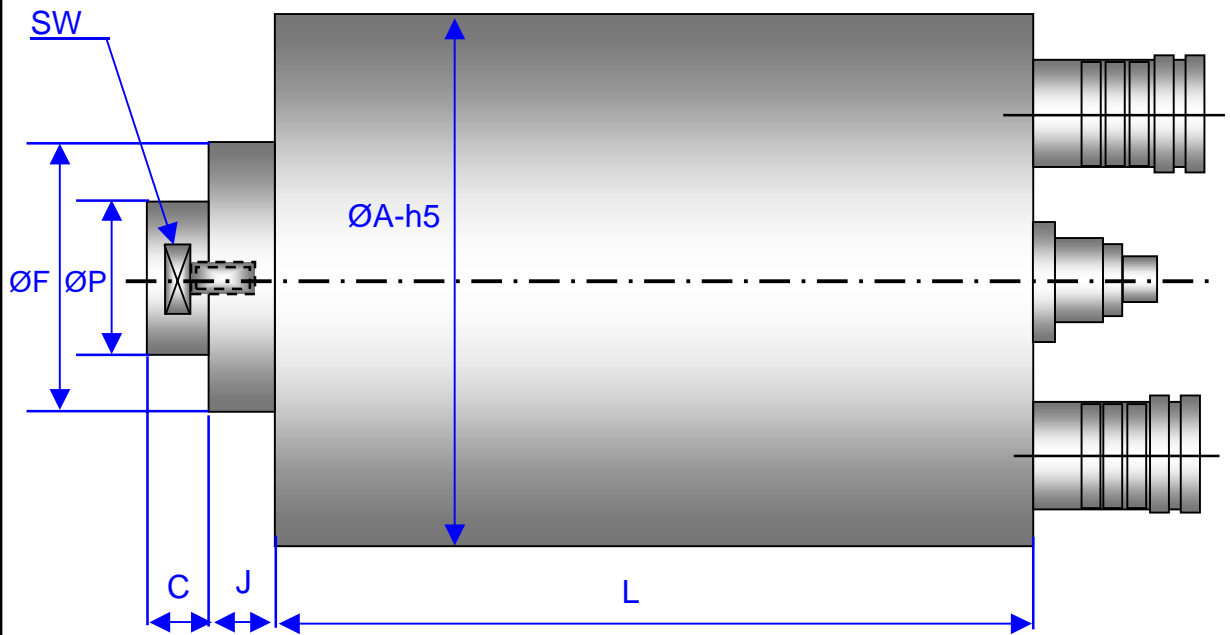




CENTERLINE INC.

PRECISION SPINDLE ENGINEERING

HIGH FREQUENCY SPINDLE HRO
 ALL CRITICAL PARTS ARE HARDENED AND GROUND.
 ALL SPINDLES ARE BALANCED.



Liquid Cooled – Straight Quill

TYPE	A	F	P	L	C	J	SW	MIN-1	KW 100%
HRO80-C5	80	40	16	200	8	6	12	120,000	0.4
HRO80-C7	80	40	18	200	8	6	17	90,000	0.65
HRO80-C8	80	50	23	200	11	12	22	75,000	0.5
HRO80-C10	80	50	26	200	11	17	24	60,000	2
HRO80-C10	80	50	26	230	11	17	24	60,000	2.5
HRO80-C14	80	50	32	200	13	22	30	45,000	2
HRO80-C16	80	50	32	200	13	22	30	30,000	1.65
HRO80-C16R	80	50	32	200	13	22	30	24,000	1.3

ALL DIMENSIONS IN <MM>

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