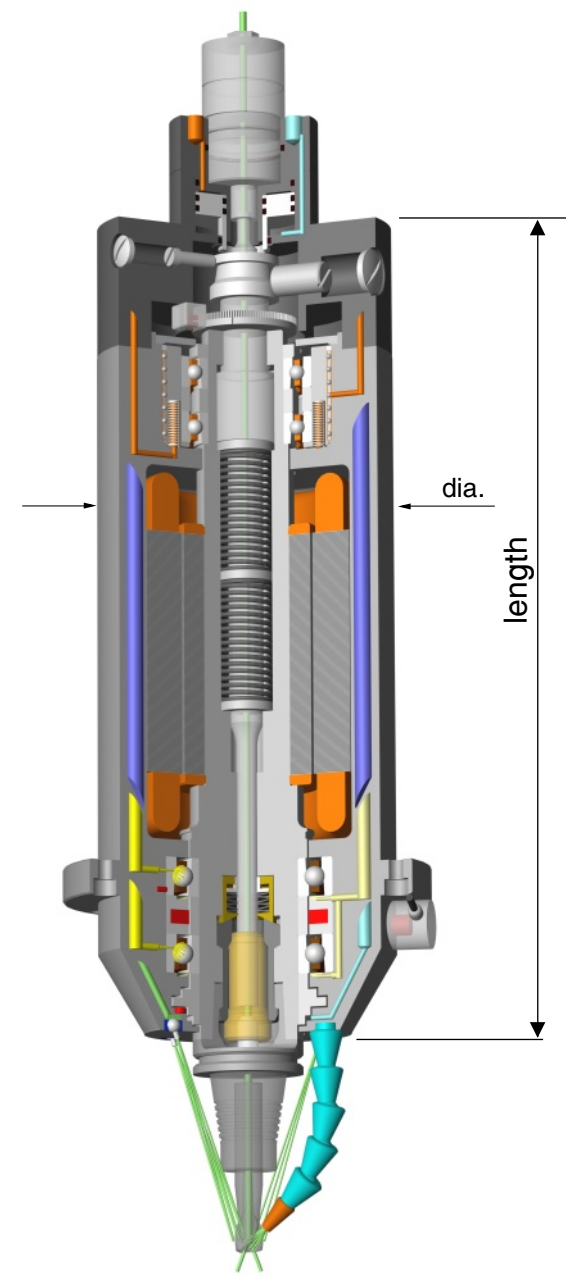


# IBAG Motor Spindles for your HSC-Applications

## IBAG Motor Spindles for your HSC-Applications



Variation of spindles with different clamping / tooling systems



Small Sized Motor Spindles

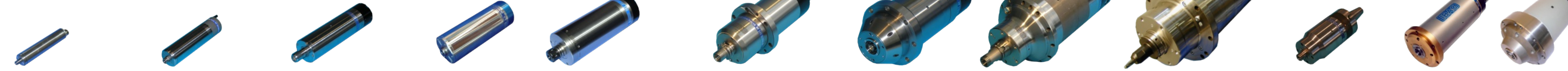
Medium Sized Motor Spindles

Large Sized Motor Spindles

Interchangeable Motor Spindles "Plug & Go"

Active Magnetic Bearings

Hydrostatic Bearings



Spindle Type	HF25	HF33	HF42	HF45	HF60	HF 80	HF 100	HF 120	HF 140	HF 170	HF 210	HF 230	HF 250	HF 260	HF 285	HF 300	HF K	A MB	G HB					
Spindle Model (*)	25S	33 A/S/D 33 S	42 S/D	45.2 S 45.4 S 45 A	60 A/S	80 S/D 80.2 A/Z	100 A/Z 100 AI/DI	120.2 AI	140 AI	170.x A 170.5 AI	210.x AI	230.x AI	250.x AI	260.x AI	285.x AI	300.x AI	90 S 95 S 135 S	200 MA	170 HA					
Speed Hybrid bearings with oil/air	(80'000)	-	140'000	45'000 80'000	70'000	50'000 80'000	50'000 60'000	42'000	36'000	24'000 30'000	24'000	24'000	15'000	12'000	12'000	12'000	60'000	-	40'000	-	-			
Speed Steel bearings with oil/air	-	60'000 100'000	120'000	80'000 80'000	-	-	-	-	-	20'000	-	-	-	-	-	-	42'000	-	30'000	-	-			
Speed Hybrid bearings with grease	55'000	40'000 40'000	80'000	50'000 60'000 60'000	60'000	40'000 40'000	40'000 42'000	25'000	25'000	16'000 17'000	15'000	15'000	10'000	10'000	8'000	7'000	42'000 42'000 30'000	40'000	22'000	-	-			
Permanent power S1	0,140	0.125 0.125	0.2	0.375 0.6 0.4	1.5	2.5 2.5	6.0 2.0	13	15/25	30/40 30	30	30/40	30/50	50/80	32	30/80	2.3 1 8.0	40	20	-	-			
Peak power	0.200	0.165 0.165	0.26	0.475 0.8 0.65	4.1	5.2 5.2	12 7.6	46	32/40	95 107	150	185	142/162	195	171	195	4.6 2.7 23	99	40	-	-			
Torque at permanent power S1	0.02	0.02 0.02	0.014	0.1 0.045 0.064	0.2	0.6 0.6	1.6/2.3 0.84	4.2	10	29/53 16.1	63/73	71/95	143/150	290/310	305	290/318	0.4 0.3 4.3	9.6	20	-	-			
Taper size	HSK (Opt. W available with all sizes)	-	-	-	-	-	-	-	-	HSK-E25 HSK-E32 HSK-E32	HSK-E40	HSK-E50	HSK-E63 HSK-E63	HSK-A63	HSK-A63	HSK-A100	HSK-A100	HSK-A100	HSK-A100	-	-	-	HSK-E50	HSK-E50
Clamping capacity	0.3-3.175	1-5 1-5	1-5	1-7 1-7 1-6.35	1-8 (10)	1-10 1-10	1-13 1-13	2-20	2-20	2-25 2-25	2-25	2-25	3-32	3-32	3-32	3-32	1-10 1-10 1-16	1-20	2-20	-	-	-	-	-
Housing dia. / length	25/166	33/151 33/120	42/120	45/172 45/191 45/214	60/218	80/243 80/243	100/299 100/252	120/338	140/360	170/470 170/342	210/457	230/511	250/676	260/700	285/837	300/740	90/182 95/141 135/245	200/438	170/362	-	-	-	-	-
Weight	0.44	0.9 0.9	1.1	1.6 1.8 2.5	3.9	6.4 7.3	15 13	23	35	63 44	110	130	200	245	320	300	7 4 19	96	45	-	-	-	-	-
Spindle cooling required	-	-	0.5	- 0.5 0.5	0.7	0.7 0.7	1 1	2	2-3	2-6 3-5	3-6	3-8	6-10	6-12	6-12	6-12	0.7 - 1	5	10	-	-	-	-	-
IBAG Vector Control	DC-Bruschl.	-	-	-	-	-	(Option) (Option)	Vector	Vector	Vector	Vector	Vector	Vector	Vector	Vector	Vector	-	Vector	Vector	-	-	-	Vector	Vector

(\*) S = Collet clamping direct in the spindle shaft; D = Grinding arbor to be attached direct on the spindle shaft; Z = Manual drawbar for tool interface with collet clamping or grinding arbor; A = Drawbar for ATC - Automatic Tool Change for tool holder HSK, SKI, BT, SK, CAT, Capto; W = Option with coolant through the center (not available with SKI). Other tooling interface on request. Y = Capto tool interface is available eith HF 230 and HF 250 in C6 / C8.

All the IBAG tooling interfaces with SK are also available with BT or CAT. They can be produced with the very precision "BIG Plus" system (with shoulder contact).

Technical data can be subject to change without further notice