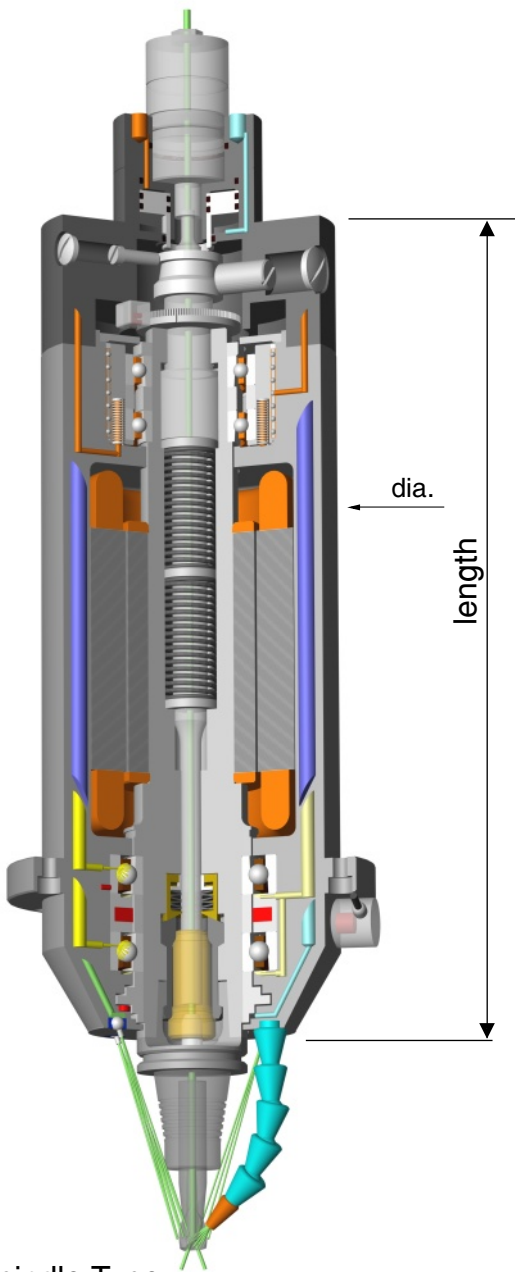




Large Sized Motor Spindles



Spindle Type

HF 170 HF 210 HF 230 HF 250 HF 260 HF 285 HF 300

Spindle Model (*)		170.x A	170.5 AI	210.x AI	230.x AI	250.x AI	260.x AI	285.x AI	300.x AI
Speed	Hybrid bearings with oil/air	RPM	24'000	30'000	24'000	24'000	15'000	12'000	12'000
	Steel bearings with oil/air	RPM	20'000	-	-	-	-	-	-
	Hybrid bearings with grease	RPM	16'000	17'000	15'000	15'000	10'000	10'000	8'000
Permanent power S1	kW	30/40	30	30	30/40	30/50	50/80	32	30/80
Peak power	kW	95	107	150	185	142/162	195	171	195
Torque at permanent power S1	Nm	29/53	16.1	63/73	71/95	143/150	290/310	305	290/318
Taper size	HSK (Opt. W available with all sizes)	HSK-E63	HSK-E63	HSK-A63	HSK-A63	HSK-A100	HSK-A100	HSK-A100	HSK-A100
	SKI; BT; CAT; SK; Y=Capto	SK40	HSK-E50	SK 40	SK 40 / Y	SK 50 / Y	SK 50	SK 50	SK 50
Clamping capacity	mm	2-25	2-25	2-25	2-25	3-32	3-32	3-32	3-32
Housing dia. / length		170/470	170/342	210/457	230/511	250/676	260/700	285/837	300/740
Weight	kg	63	44	110	130	200	245	320	300
Spindle cooling required	kW	2-6	3-5	3-6	3-8	6-10	6-12	6-12	6-12
IBAG Vector Control		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 with 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).