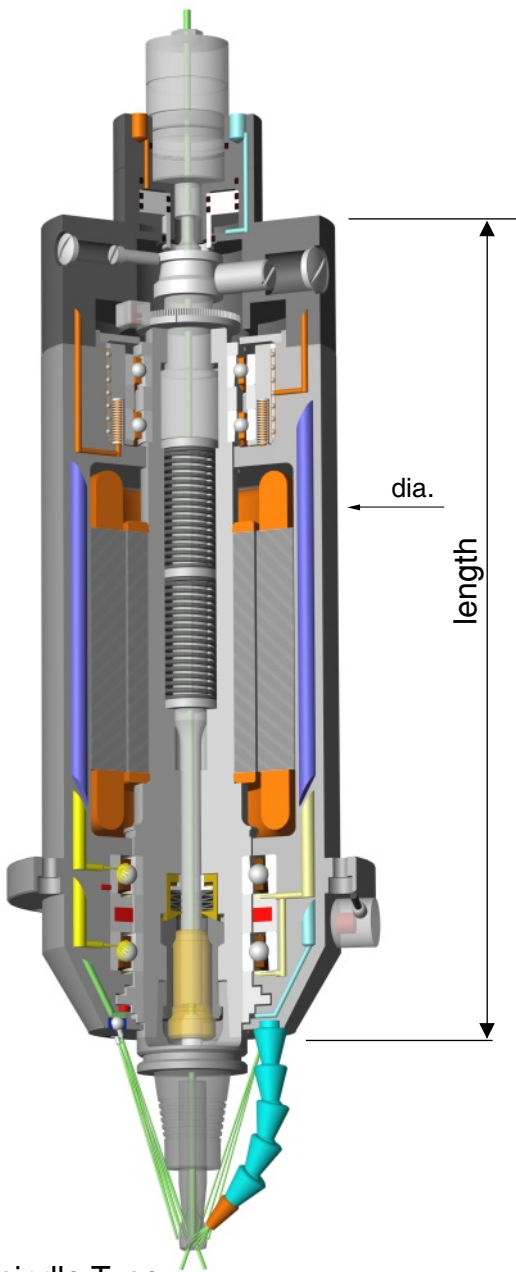




## Medium Sized Motor Spindles



Spindle Type

HF 80

HF 100

HF 120

HF 140

Spindle Model (*)		80 S/D	80.2 A/Z	100 A/Z	100 AI/DI	120.2 AI	140 AI	
Speed	Hybrid bearings with oil/air	RPM	50'000	50'000	50'000	60'000	42'000	36'000
	Steel bearings with oil/air	RPM	-	-	-	-	-	-
	Hybrid bearings with grease	RPM	40'000	40'000	40'000	42'000	25'000	25'000
Permanent power S1	kW	2.5	2.5	6.0	2.0	13	15/25	
Peak power	kW	5.2	5.2	12	7.6	46	32/40	
Torque at permanent power S1	Nm	0.6	0,6	1.6/2.3	0.84	4.2	10	
Taper size	HSK (Opt. W available with all sizes)	-	HSK-E25	HSK-E32	HSK-E32	HSK-E40	HSK-E50	
	SKI; BT; CAT; SK; Y=Capto	-	SKI 20	SKI 25	SKI 20	SKI 30	-	
Clamping capacity	mm	1-10	1-10	1-13	1-13	2-20	2-20	
Housing dia. / length		80/243	80/243	100/299	100/252	120/338	140/360	
Weight	kg	6.4	7.3	15	13	23	35	
Spindle cooling required	kW	0.7	0.7	1	1	2	2-3	
IBAG Vector Control		-	-	(Option)	(Option)	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).