

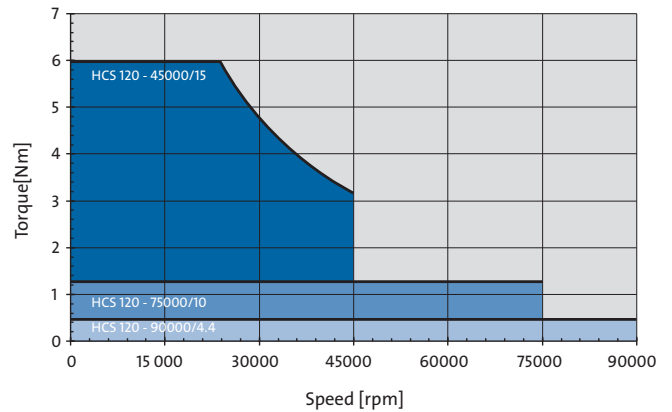
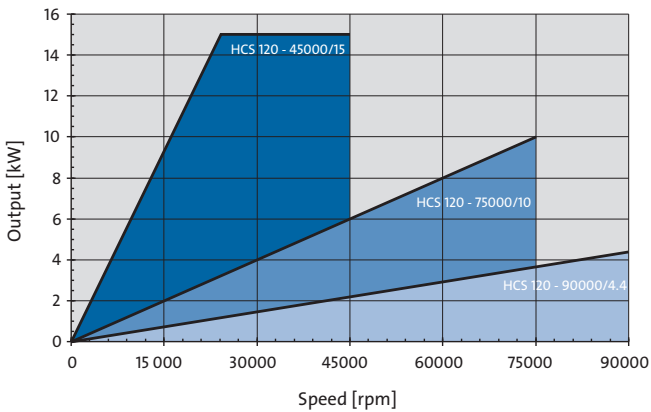
High-End Grinding & Micro Machining

FEATURES OF THE SPINDLES

- Synchronous motor
- Encoder
- GMN Hybrid bearings
- Oil/air lubrication
- Taper cleaning
- Air purge
- Coolant through the shaft
- Monitoring of tool interface
- Monitoring of shaft displacement

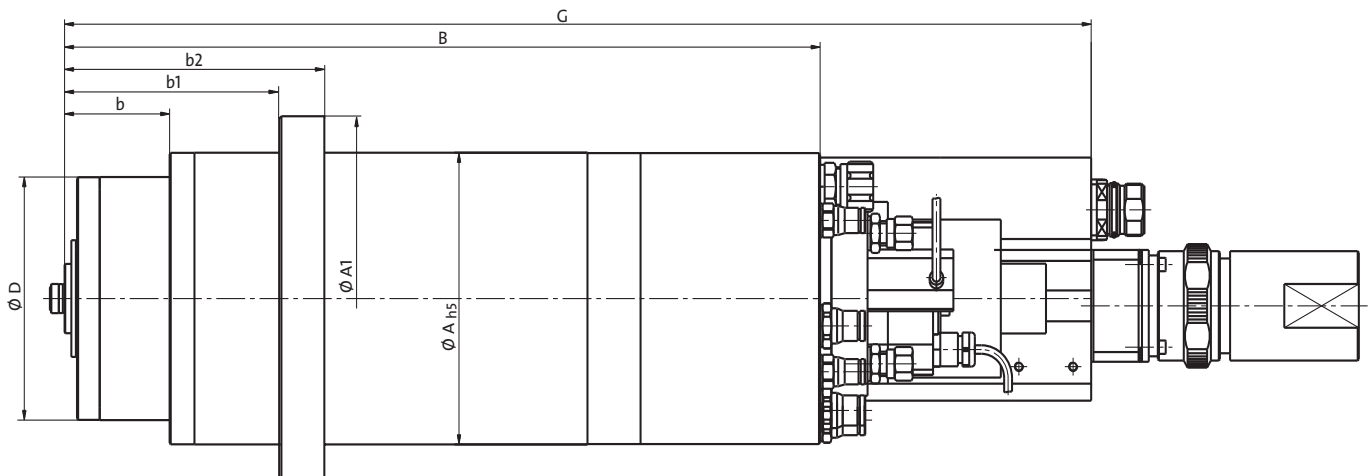
TECHNICAL DATA

Spindle designation	Speed max. [rpm]	Output S1 at ... [kW]	Torque S1 up to ... [Nm]	... Speed [rpm]	Tool interface	Bearing- ϕ in front [mm]	Stiffness radial axial [N/ μ m]
HCS 120 - 90000/4.4	90000	4.4	0.47	90000	HSK-E 20	25	125 91
HCS 120 - 75000/10	75000	10	1.3	75000	HSK-E 25	30	110 69
HCS 120 - 45000/15	45000	15	6	24000	HSK-E 40	45	59 57



DIMENSIONS [MM]

Spindle designation	A	A1	D	b	b1	b2	B	G
HCS 120 - 90000/4.4	120	150	78	44.5	115	135	287	407
HCS 120 - 75000/10	120	150	100	46.5	95	115	334.5	454.5
HCS 120 - 45000/15	120	150	-	-	73	103	377	497



Specifications are subject to change without notice.