



**MOTOR SPINDLE OVERVIEW**  
*MOTORSPINDEL-ÜBERSICHT*

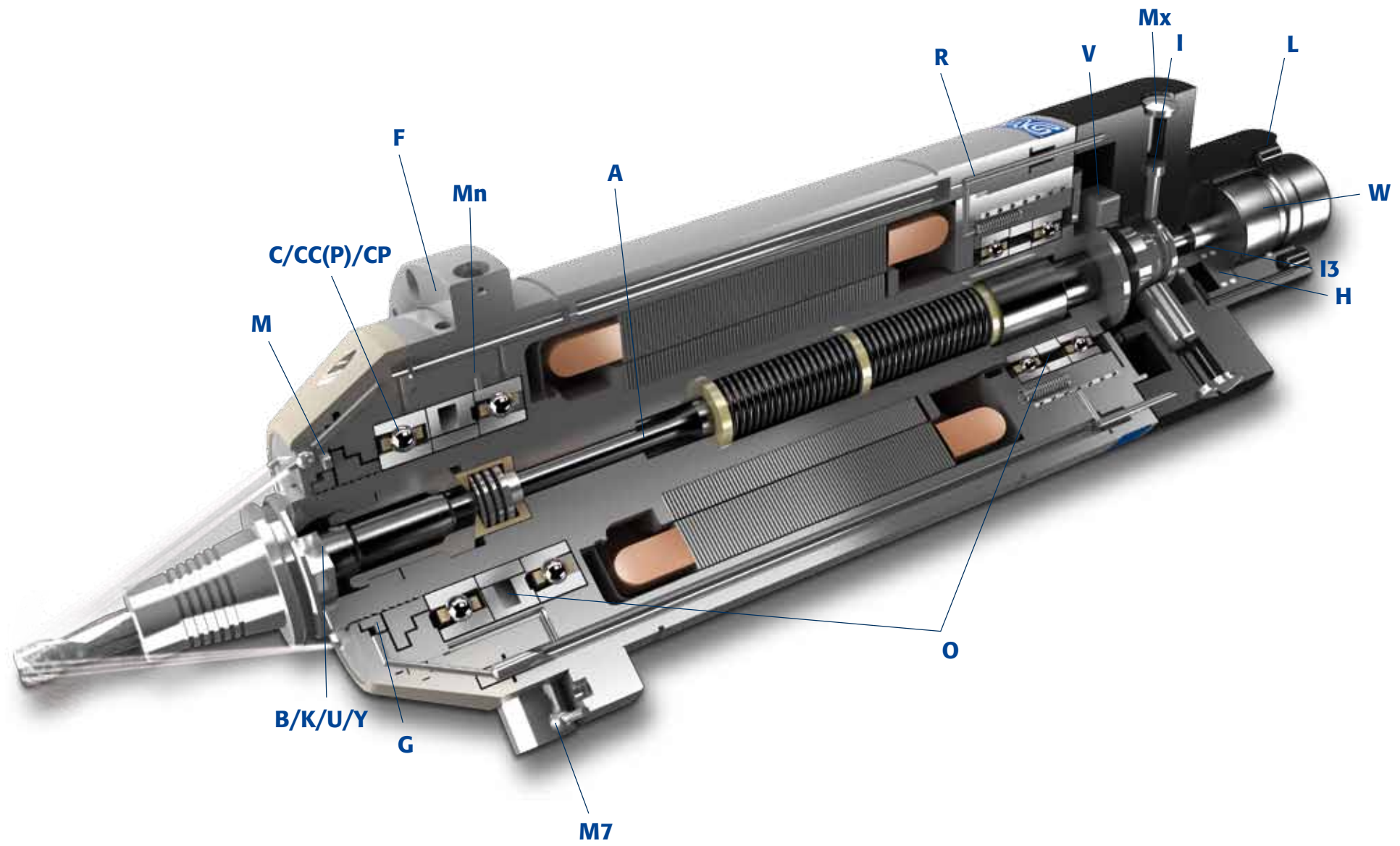


# LARGE MOTOR SPINDLES *GROSSE MOTORSPINDELN*

Ø 170mm - 360mm / HT 170 A 17 - HF 360 AI 7

				HT 170 A 17 P	HF 170 AI 18 HT 170 AI 18	HF 170 AI 20 HT 170 AI 20	HF 170 AI 22 HT 170 AI 22**	HT 210 A 20	HF 210 AI 24 HT 210 AI 24**	HF 220 A 24 P	HF 230 AI 17	HF 230 AI 18	HF 230 AI 20 HT 230 AI 20	HF 240 AI 12	HF 250 AI 12	HF 260 AI 12	HF 285 AI 10	HF 300 AI 10	HF 360 AI 7	
<b>Speed</b> <i>Drehzahl</i>	<b>Oil-air</b> <i>Öl-Luft</i>	C	<b>RPM</b> <i>min<sup>-1</sup></i>		20'000	24'000	30'000	20'000	15'000		17'000	13'000	24'000	12'000	15'000	12'000	12'000	12'000	7'000	
	<b>CC-grease</b> <i>CC-Fett</i>	CCP	<b>RPM</b> <i>min<sup>-1</sup></i>		17'000	22'000	22'000				15'000		20'000		13'000	13'000	10'000	11'000		
	<b>Grease</b> <i>Fett</i>	CP	<b>RPM</b> <i>min<sup>-1</sup></i>	10'000	15'000	17'000	17'000			20'000	13'000		15'000		10'000	10'000	8'000	6'000		
<b>HF Asynchronous motor</b> <i>Asynchronmotor</i>	<b>Power</b> <i>Leistung</i>	S6-40%	kW		52.0/57.2	20.8/71.5	32.5/54.6	32.5	22.1	38.0	39.0/97.5	33.0	19.5/104.0	42.9	39.0/78.0	23.4/104.0	36.0	39.0	130.0	
		S1-100%	kW		40.0/44.0	16.0/55.0	25.0/42.0	25.0	17.0	30.0	30.0/75.0	23.9	15.0/80.0	33.0	30.0/60.0	18.0/80.0	32.0	30.0	100.0	
	<b>Torque</b> <i>Drehmoment</i>	S6-40%	Nm		62.9/69.4	20.7/38.1	20.9/41.4	82.3	124.2	100.0	96.0/118.6	95.8	77.0/124.2	104.2	75.0/222.1	333.5/414.0	343.8	310.4	1'280.0	
		S1-100%	Nm		48.4/53.4	16.1/29.3	16.1/31.8	63.3	95.5	79.0	73.8/91.2	72.6	59.0/95.0	80.2	57.7/170.8	256.6/318.0	305.6	238.8	985.0	
<b>HT Synchronous motor</b> <i>Synchronmotor</i>	<b>Power</b> <i>Leistung</i>	S6-40%	kW	52.0	39.0	39.0	39.0		71.5				27.3/72.8		52.0					
		S1-100%	kW	40.0	30.0	30.0	30.0		55.0				21.0/56.0		40.0					
	<b>Torque</b> <i>Drehmoment</i>	S6-40%	Nm	99.3	124.2	74.5/86.6	41.4		189.0				174.0/231.7		275.9					
		S1-100%	Nm	76.4	95.5	57.3/66.6	31.8		145.0				134.0/178.3		212.2					
<b>Qty. of bearings / Anzahl der Kugellager</b>				4			4			4			5		4		5			
<b>Cone</b> <i>Konus</i>	HSK	K		A80	A/E63	A/C/E63	A/E63			A80	A/T63	A63	A100	A100						
	SKI																			
	(B)BT / SK	B			40*		40*				40*		40/45/50	50				50		
	Capto	Y												C6						
	<b>Collet</b> <i>Spannzange</i>	S																		
<b>Grinding arbor</b> <i>Schleifdorn</i>	D			<b>on request / auf Anfrage</b>																
<b>Spindle Ø</b> <i>Spindel Ø</i>			mm	170	170	170/180	170	210	210	220	230	230	230	240	250	260	285	300	360	
<b>Spindle length</b> <i>Spindellänge</i>			mm	629	624	520	405	580	506	543	620	690	600	750	764	786	1'450	812	988	
<b>Spindle weight</b> <i>Spindelgewicht</i>			kg	70	85	63/70	44	118	118	125	152	165	145	230	240	250	275	305	345	
<b>Spindle cooling</b> <i>Spindelkühlung</i>				<b>liquid / Flüssigkeit</b>																
<b>Options</b> <i>Optionen</i>				F-G-H-I I3-Mn-P-V- WV-W	B-F-G-H-I I3-K-Mn-P- R-V-W	B-F-G-H-I I3-K-Mn-P- R-V-W	F-G-H-I I3-K-Mn-P- V-W	B-F-G-H-I I3-K-P-V	F-G-H-I I3-K-Mn-P- V-W	F-G-H-I I3-K-Mn-P- V-W	F-G-H-I I3-K-Mn-P- V-W	F-G-H-I I3-K-Mn-P- R-V-W	B-F-G-H-I I3-K-Mn-P- R-V-W	B-F-G-H-I I3-K-Mn-P- R-V-W	F-G-H-I I3-K-Mn-P- R-V-W	B-F-G-H-I I3-K-Mn-P-R- V-W-Y	B-F-G-H-I I3-K-Mn-P- R-V-W	B-F-G-H-I I3-K-Mn-P- R-V-W	B-F-G-H-I I3-K-Mn-P- V-W	B-F-G-H-I I3-K-Mn-P- V-W
<b>Encoder / Drehgeber</b>		V		CloseLoop																

**\*The maximum allowed speed for tooling system (B)BT / SK40 is 20'000 RPM. / \*\*Spindle motor with reduced speed.**  
 \*Die maximale zulässige Drehzahl für Werkzeugschnittstelle (B)BT / SK40 ist 20'000 U/min. / \*\*Spindelmotor mit reduzierter Drehzahl.



# OPTIONS *OPTIONEN*

<b>BT/BBT/CAT/SK tooling system</b>	<b>B</b>	<i>Werkzeugschnittstelle BT/BBT/CAT/SK</i>
<b>Ceramic ball bearings</b>	<b>C</b>	<i>Keramik-Hybrid-Kugellager</i>
<b>High speed ceramic ball bearings</b>	<b>CC</b>	<i>Hochleistungs-Keramik-Hybrid-Kugellager</i>
<b>Spindle extension</b>	<b>E</b>	<i>Spindelverlängerung</i>
<b>Flange according to spindle drawing</b>	<b>F</b>	<i>Ring-Flansch zur axialen Befestigung</i>
<b>Antistatic brushes</b>	<b>G</b>	<i>Anti-Statikbürsten</i>
<b>Tool change by hydraulic pressure</b>	<b>H</b>	<i>hydraulischer Werkzeugausstoß</i>
<b>Sensors to check the tool holder position</b>	<b>I</b>	<i>Werkzeugwechsel-Sensoren</i>
<b>Piston position monitoring</b>	<b>I3</b>	<i>PI-Sensor zur Kolbenüberwachung</i>
<b>HSK tooling system</b>	<b>K</b>	<i>Werkzeugschnittstelle HSK</i>
<b>Oil extraction system</b>	<b>L</b>	<i>Öl-Absaugung</i>
<b>Spindle axial extension measurement</b>	<b>M</b>	<i>automatische Längenwachstumskompensation</i>
<b>Bearing temperature sensor</b>	<b>Mn</b>	<i>Lagertemperatur-Sensoren</i>
<b>Datalogger</b>	<b>Mx</b>	<i>Datalogger</i>
<b>Vibration sensor</b>	<b>M7</b>	<i>Schwingungssensor</i>
<b>Bearing arrangement for higher stiffness</b>	<b>O</b>	<i>Lageranordnung für höhere axiale Steifigkeit</i>
<b>Grease-packed ball bearings</b>	<b>P</b>	<i>Kugellager fett-dauergeschmiert</i>
<b>Hydraulic preload for higher axial load</b>	<b>R</b>	<i>hydraulische Vorspannung für höhere axiale Belastung</i>
<b>Special / customized solution</b>	<b>S</b>	<i>Spezial / Kundenlösung</i>
<b>MEGA-xS tooling system</b>	<b>U</b>	<i>Werkzeugschnittstelle MEGA-xS</i>
<b>Encoder for vector control and shaft positioning</b>	<b>V</b>	<i>Gebersystem für Lageorientierung/Vektorkontrolle</i>
<b>Tool cooling through spindle-centre</b>	<b>W</b>	<i>Innere-Kühlmittelzufuhr</i>
<b>Capto tooling system</b>	<b>Y</b>	<i>Werkzeugschnittstelle CAPTO</i>



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