



MOTOR SPINDLE OVERVIEW

MOTORSPINDEL-ÜBERSICHT



SMALL MOTOR SPINDLES *KLEINE MOTORSPINDELN*

Ø 16mm - 60mm / HT 16 S 100 - HF 6015 D

				HT 16 S 100	HT 19 S 100	HT 22 S 100	HT 25 S 60	HT 25 S 100	HF 33 A 50	HF 33 A 60	HF 33 D/S 60 HT 33 D/S 60	HF 45 A 50	HF 45 A 60	HF 45.11 A 60	HF 45.11 S 35	HF 45 S 60	HF 45 S 80 HT 45 S 80	HT 45 S 140	HF 6015 D
Speed <i>Drehzahl</i>	Oil-air <i>Öl-Luft</i>	C	RPM <i>min⁻¹</i>	80'000	80'000	80'000	80'000	80'000	60'000	60'000	60'000	80'000	60'000	35'000	35'000	60'000	80'000	160'000	15'000
	Grease <i>Fett</i>	CP	RPM <i>min⁻¹</i>	60'000	60'000	60'000	60'000	60'000			60'000		60'000	60'000	60'000	100'000			
	Max. speed* <i>Max. Drehzahl*</i>	C	RPM <i>min⁻¹</i>	100'000	100'000	100'000	120'000	90'000			80'000					90'000			
HF Asynchronous motor <i>Asynchronmotor</i>	Power <i>Leistung</i>	S6-40%	W						260	260	260	975	975	550	550	975	1300		530
		S1-100%	W						200	200	200	750	750	475	475	750	1000		410
		Torque <i>Drehmoment</i>	S6-40%						Ncm	4.6	4.6	4.6	11.6	15.5	15	15	15.5		15.5
S1-100%			Ncm	3.5	3.5	3.5	8.9	11.9	13	13	11.9	11.9	28						
HT Synchronous motor <i>Synchronmotor</i>	Power <i>Leistung</i>	S6-40%	W	208	273	312	182	351/364			520						2.500	819	
		S1-100%	W	160	210	240	140	270/280			400						1.900	630	
		Torque <i>Drehmoment</i>	S6-40%	Ncm	2.5	3.1	4.7	2.0			4.9/6.5						6.2	38	
S1-100%			Ncm	1.9	2.4	3.5	1.6	3.8/5.0	4.8	29	4.3								
Qty. of bearings / <i>Anzahl der Kugellager</i>				3	3	3	2	3	3	4	3	3	4	4	2/4	4	4	2	3
Cone <i>Konus</i>	HSK	K																	
	SKI																		
	(B)BT / SK	B																	
	Capto	Y																	
	Collet <i>Spannzange</i>	S		D6	ER8			P6		ER8	P9			ER11					
	Collet <i>Spannzange</i>	U			Mega-3S								Mega-6S			Mega-4S			
	Grinding arbor <i>Schleifdom</i>	D																	
Spindle Ø <i>Spindel Ø</i>			mm	16/17/18	19/20	22/22.8	25/25.4	25/25.4	33	33	33	45	45	45	45	45	45	45	60
Spindle length <i>Spindellänge</i>			mm	110.3	108.0	126.5	87.3	118.0	171.4	205.5	162.0	235.5	235.5	235.5	185.1	185.1	185.1	116.5	216.5
Spindle weight <i>Spindelgewicht</i>			kg	0.150	0.150	0.200	0.200	0.300	0.900	0.900	0.700	2.3	2.3	2.3	1.3	1.3	1.3	1.1	3.7
Spindle cooling <i>Spindelkühlung</i>				without* / ohne*												liquid / Flüssigkeit			
Options <i>Optionen</i>				P	P	E-P-U	E-P-U	E-P-U	P	H-P	P	P	P	P	P	P-U	P-U	P-U	P
Encoder / <i>Drehgeber</i>		V		OpenLoop															

***Small spindles with maximum speed are oil-air lubricated and have to be cooled. The heat must be dissipated via spindle holder. Maximum external housing temperature 60°C.**
**Kleine Spindeln mit maximaler Drehzahl sind Öl-Luft geschmiert und müssen gekühlt werden. Die Wärmeableitung muss über den Spindelhalter erfolgen. Maximale Gehäusetemperatur 60°C.*

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