



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	35'000	35'000	60'000	80'000	160'000		
	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	80'000	60'000	35'000	35'000	60'000	60'000	100'000	15'000	
	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		34	
		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									2.500	819		
		S1-100%	W	160	210	240	140	270/280									1.900	630		
	Torque <i>Drehmoment</i>	S6-40%	Ncm	2.5	3.1	4.7	2.0	4.9/6.5									38	5.6		
		S1-100%	Ncm	1.9	2.4	3.5	1.6	3.8/5.0									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									M4/Ø7								M6/Ø6.4	
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	45	60	
Spindle length <i>Spindelänge</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	P-U	P-U	P-U	P	
Encoder / <i>Drehgeber</i>		V	OpenLoop																	
<p>*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. <i>*Kleine Spindeln mit maximaler Drehzahl sind Öl-Luft geschmiert und müssen gekühlt werden. Die Wärmeableitung muss über den Spindelhalter erfolgen. Maximale Gehäusetemperatur 60°C.</i></p>																				

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