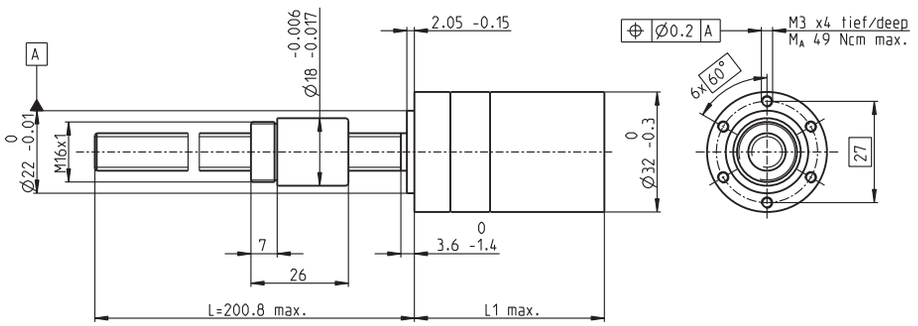
Spindle Drive GP 32 S Ø32 mm, Metric spindle



M 1:2

Technical Data

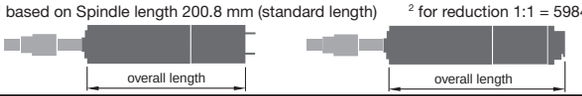
Spindle	M10 x 1, stainless steel
Standard length	200.8 mm
Special length (5 mm steps)	max. 600 mm
Nut (standard)	thread nut
Material	bronze
Axial play	< 0.008 mm
Planetary gearhead	straight teeth
Bearing	ball bearing/thrust roller bearing
Radial play, 5 mm from flange	< 0.05 mm
Axial play	preloaded
Max. continuous input speed[2]	8000 rpm
Recommended temperature range	-15…+80°C
Max. axial load (static)[1]	2700 N
Number of stages	1 2 3 4
Max. radial load, 15 mm from flange	200 N 350 N 400 N 400 N

maxon spindle drive

Stock program
Standard program
Special program (on request)

			Part Numbers								
			363900	363901	363904	363909	363910	363915	363920	363925	363930
Spindle Drive Data											
1	Reduction		1:1	3.7:1	14:1	33:1	51:1	111:1	246:1	492:1	762:1
2	Absolute reduction		1/1	26/7	676/49	529/16	17576/343	13824/125	421824/1715	86112/175	19044/25
20	Max. feed velocity[1]	mm/s	100	36	9.5	4.0	2.6	1.2	0.5	0.3	0.2
21	Max. feed force (continuous)[1]	N	183	257	400	533	616	798	1040	1311	1350
22	Max. feed force (intermittent)[1]	N	455	638	995	1324	1350	1350	1350	1350	1350
	Part Numbers			363902	363905		363911	363916	363921	363926	363931
1	Reduction			4.8:1	18:1		66:1	123:1	295:1	531:1	913: 1
2	Absolute reduction			24/5	624/35		16224/245	6877/56	101062/343	331776/625	36501/40
20	Max. feed velocity[1]	mm/s		28	7.4		2.0	1.1	0.5	0.3	0.1
21	Max. feed force (continuous)[1]	N		280	435		671	826	1105	1345	1350
22	Max. feed force (intermittent)[1]	N		696	1082		1350	1350	1350	1350	1350
	Part Numbers			363903	363906		363912	363917	363922	363927	363932
1	Reduction			5.8:1	21:1		79:1	132:1	318:1	589:1	1093:1
2	Absolute reduction			23/4	299/14		3887/49	3312/25	389376/1225	20631/35	279841/256
20	Max. feed velocity[1]	mm/s		23	6.3		1.7	1.0	0.4	0.2	0.1
21	Max. feed force (continuous)[1]	N		298	458		712	845	1133	1350	1350
22	Max. feed force (intermittent)[1]	N		742	1139		1350	1350	1350	1350	1350
	Part Numbers				363907		363913	363918	363923	363928	
1	Reduction				23:1		86:1	159:1	411:1	636:1	
2	Absolute reduction				576/25		14976/175	1587/10	359424/875	79488/125	
20	Max. feed velocity[1]	mm/s			5.8		1.6	0.8	0.3	0.2	
21	Max. feed force (continuous)[1]	N			472		733	899	1234	1350	
22	Max. feed force (intermittent)[1]	N			1174		1350	1350	1350	1350	
	Part Numbers				363908		363914	363919	363924	363929	
1	Reduction				28:1		103:1	190:1	456:1	706:1	
2	Absolute reduction				138/5		3588/35	12167/64	89401/196	158171/224	
20	Max. feed velocity[1]	mm/s			4.8		1.3	0.7	0.3	0.2	
21	Max. feed force (continuous)[1]	N			504		778	955	1278	1350	
22	Max. feed force (intermittent)[1]	N			1253		1350	1350	1350	1350	
4	Number of stages		0	1	2	2	3	3	4	4	4
7	Max. efficiency gearhead incl. spindle	%	27	22	20	20	19	19	16	16	16
8	Weight[1]	g	304	304	331	331	359	359	387	387	387
9	Average backlash no load	°	0.7	0.7	0.8	0.8	1.0	1.0	1.0	1.0	1.0
23	Mechanical positioning accuracy[1]	mm	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.034	0.034
10	Mass inertia gearhead incl. spindle[1]	gcm²	43.3	3.0	0.9	0.9	0.7	0.7	0.7	0.7	0.7
11	Gearhead length L1	mm	51.0	51.0	57.7	57.7	64.4	64.4	71.1	71.1	71.1

[1] based on Spindle length 200.8 mm (standard length) [2] for reduction 1:1 = 5984 rpm



maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts							
A-max 26	205-212			–	95.8	102.5	102.5	109.2	109.2	115.9	115.9	115.9
A-max 26	206-212	MEnc 13	409	–	102.9	109.6	109.6	116.3	116.3	123.0	123.0	123.0
A-max 26	206-212	MR	392	–	104.6	111.3	111.3	118.0	118.0	124.7	124.7	124.7
A-max 26	206-212	Enc 22	398	–	110.2	116.9	116.9	123.6	123.6	130.3	130.3	130.3
A-max 26	206-212	HED_5540	399/401	–	114.2	120.9	120.9	127.6	127.6	134.3	134.3	134.3
A-max 32	213/215			–	114.0	120.7	120.7	127.4	127.4	134.1	134.1	134.1
A-max 32	214/216			–	112.6	119.3	119.3	126.0	126.0	132.7	132.7	132.7
A-max 32	214/216	MR	393	–	123.8	130.5	130.5	137.2	137.2	143.9	143.9	143.9
A-max 32	214/216	HED_5540	399/401	–	133.4	140.1	140.1	146.8	146.8	153.5	153.5	153.5
RE-max 29	227-230			–	95.8	102.5	102.5	109.2	109.2	115.9	115.9	115.9
RE-max 29	228/230	MR	392	–	104.6	111.3	111.3	118.0	118.0	124.7	124.7	124.7
EC 32, 80 W	251			111.1	111.1	117.8	117.8	124.5	124.5	131.2	131.2	131.2
EC 32, 80 W	251	HED_ 5540	400/402	129.5	129.5	136.2	136.2	142.9	142.9	149.6	149.6	149.6
EC 32, 80 W	251	Res 26	412	131.2	131.2	137.9	137.9	144.6	144.6	151.3	151.3	151.3
MCD EPOS, 60 W	441			171.1	171.1	177.8	177.8	184.5	184.5	191.2	191.2	191.2
MCD EPOS P 60 W	441			171.1	171.1	177.8	177.8	184.5	184.5	191.2	191.2	191.2

Continuation of the modular system (irrespective of the spindle) on pages 370 and 372.