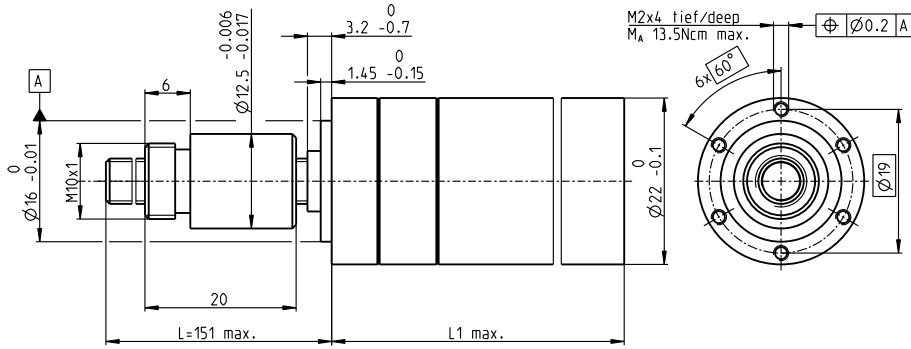


Spindle Drive GP 22 S Ø22 mm, Metric spindle



Technical Data	
Spindle	M6 x 1, stainless steel
Standard length	151 mm
Special length (5 mm steps)	max. 300 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	550 N
Number of stages	1 2 3 4
Max. radial load, 15 mm from flange	80 N 130 N 180 N 180 N

M 1:1

- Stock program
- Standard program
- Special program (on request)

Part Numbers

Spindle Drive Data	363826	363827	363830	363834	363835	363840	363845	363850	363855
1 Reduction	1:1	3.8:1	14:1	29:1	53:1	89:1	198:1	333:1	479:1
2 Absolute reduction	1/1	15/4	225/16	729/25	3375/64	4617/52	50625/256	6925/208	124659/260
20 Max. feed velocity ¹	mm/s	101	35	9.5	4.6	2.5	0.7	0.4	0.3
21 Max. feed force (continuous) ¹	N	42	60	92	118	144	223	266	300
22 Max. feed force (intermittent) ¹	N	118	167	259	330	350	350	350	350
Part Numbers		363828	364040		363836	363841	363846	363851	363856
1 Reduction		4.4:1	16:1		62:1	104:1	231:1	370:1	561:1
2 Absolute reduction		57/13	885/52		12825/208	87723/645	192375/632	10556001/28561	2368521/4225
20 Max. feed velocity ¹	mm/s	30	8.3		2.2	1.3	0.6	0.4	0.2
21 Max. feed force (continuous) ¹	N	63	97		152	180	235	275	316
22 Max. feed force (intermittent) ¹	N	176	270		350	350	350	350	350
Part Numbers		363829	363831		363837	363842	363847	363852	363857
1 Reduction		5.4:1	19:1		72:1	109:1	270:1	389:1	590:1
2 Absolute reduction		27/5	3249/169		48735/676	2187/20	731025/2704	263169/676	59049/100
20 Max. feed velocity ¹	mm/s	25	7.0		1.9	1.2	0.5	0.3	0.2
21 Max. feed force (continuous) ¹	N	67	102		159	183	248	280	321
22 Max. feed force (intermittent) ¹	N	188	286		350	350	350	350	350
Part Numbers			363832		363838	363843	363848	363853	363858
1 Reduction			20:1		76:1	128:1	285:1	410:1	690:1
2 Absolute reduction			81/4		1215/16	41553/325	18225/64	6561/16	1121931/1625
20 Max. feed velocity ¹	mm/s		6.7		1.8	1.0	0.5	0.3	0.2
21 Max. feed force (continuous) ¹	N		104		162	193	252	285	339
22 Max. feed force (intermittent) ¹	N		291		350	350	350	350	350
Part Numbers			363833		363839	363844	363849	363854	363859
1 Reduction			24:1		84:1	157:1	316:1	455:1	850:1
2 Absolute reduction			1539/65		185193/2197	19683/125	2777895/6788	5000211/10985	531441/625
20 Max. feed velocity ¹	mm/s		5.6		1.6	0.8	0.4	0.3	0.2
21 Max. feed force (continuous) ¹	N		111		168	207	261	295	350
22 Max. feed force (intermittent) ¹	N		310		350	350	350	350	350
4 Number of stages		0	1	2	3	3	4	4	4
7 Max. efficiency gearhead incl. spindle	%	42	35	29	29	25	20	20	20
8 Weight ¹	g	103	103	116	116	128	128	141	141
9 Average backlash no load	°	1.0	1.0	1.2	1.2	1.6	1.6	2.0	2.0
23 Mechanical positioning accuracy ¹	mm	0.034	0.034	0.034	0.034	0.034	0.037	0.037	0.037
10 Mass inertia gearhead incl. spindle ¹	gcm ²	10	1.0	0.4	0.4	0.3	0.3	0.3	0.3
11 Gearhead length L1	mm	38.0	38.0	44.8	44.8	51.6	51.6	58.4	58.4

¹ based on spindle length 151 mm (standard length) ² for reduction 1:1 = 6088 rpm



maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts							
EC 16, 60 W	245			94.2	94.2	101.0	101.0	107.8	107.8	114.6	114.6
EC 16, 60 W	245	MR	391	104.9	104.9	111.7	111.7	118.5	118.5	125.3	125.3
EC 22, 40 W	246			82.7	82.7	89.5	89.5	96.3	96.3	103.1	103.1
EC 22, 40 W	246	MR	391	88.7	88.7	95.5	95.5	102.3	102.3	109.1	109.1
EC 22, 100 W	247			100.9	100.9	107.7	107.7	114.5	114.5	121.3	121.3
EC 22, 100 W	247	MR	391	106.9	106.9	113.7	113.7	120.5	120.5	127.3	127.3
EC-max 16, 8 W	261			-	71.4	78.2	78.2	85.0	85.0	91.8	91.8
EC-max 16, 8 W	261	MR	391	-	78.7	85.5	85.5	92.3	92.3	99.1	99.1
EC-max 22, 12 W	262			-	70.1	76.9	76.9	83.7	83.7	90.5	90.5
EC-max 22, 12 W	262	MR	391	-	79.8	86.6	86.6	93.4	93.4	100.2	100.2
EC-max 22, 12 W	262	AB 20	406	-	105.7	112.5	112.5	119.3	119.3	126.1	126.1

Continuation of the modular system (irrespective of the spindle) on page 368.