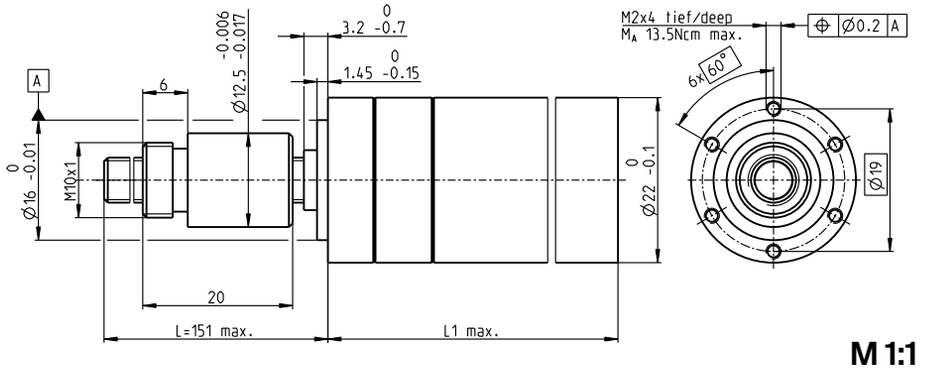
Screw Drive GP 22 S ∅22 mm, metric lead screw



M 1:1

Technical data	
Screw	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	0	1	2	3	4
Max. radial load, 15 mm from flange	80 N	80 N	130 N	180 N	180 N

Stock program
Standard program
Special program (on request)

			Part numbers								
			363826	363827	363830	363834	363835	363840	363845	363850	363855
Screw drive data											
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	69255/208	124659/260
20	Max. feed velocity[1]	mm/s	101	35	9.5	4.6	2.5	1.5	0.7	0.4	0.3
21	Max. feed force (continuous)[1]	N	42	60	92	118	144	171	223	266	300
22	Max. feed force (intermittent)[1]	N	118	167	259	330	350	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	87723/845	192375/832	1055601/28561	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	2777895/8788	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	2	3	3	4	4	4
7	Max. efficiency gearhead incl. screw	%	42	35	29	29	25	25	20	20	20
8	Weight[1]	g	103	103	116	116	128	128	141	141	141
9	Average backlash no load	°	1.0	1.0	1.2	1.2	1.6	1.6	2.0	2.0	2.0
23	Mechanical positioning accuracy[1]	mm	0.034	0.034	0.034	0.034	0.034	0.034	0.037	0.037	0.037
10	Mass inertia gearhead incl. screw[1]	gcm²	10	1.0	0.4	0.4	0.3	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	58.4

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

Modular system

+ Motor	Page	+ Sensor / Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts							
A-max 19	175–178			–	64.2	71.0	71.0	77.8	77.8	84.6	84.6	84.6
A-max 19, 1.5 W	176	13 GAMA	498	–	71.7	78.5	78.5	85.3	85.3	92.1	92.1	92.1
A-max 19, 1.5 W	176	ENX 19 IMR	503	–	69.3	76.1	76.1	82.9	82.9	89.7	89.7	89.7
A-max 19, 1.5 W	176	MR	533	–	69.3	76.1	76.1	82.9	82.9	89.7	89.7	89.7
A-max 19, 2.5 W	177/178			–	66.8	73.6	73.6	80.4	80.4	87.2	87.2	87.2
A-max 19, 2.5 W	178	13 GAMA	498	–	74.3	81.1	81.1	87.9	87.9	94.7	94.7	94.7
A-max 19, 2.5 W	178	MR	533	–	71.1	77.9	77.9	84.7	84.7	91.5	91.5	91.5
A-max 19, 2.5 W	178	ENX 19 IMR	503	–	71.1	77.9	77.9	84.7	84.7	91.5	91.5	91.5
A-max 22	179–182			–	67.2	74.0	74.0	80.8	80.8	87.6	87.6	87.6
A-max 22	180/182	13 GAMA	498	–	74.3	81.1	81.1	87.9	87.9	94.7	94.7	94.7
A-max 22	180/182	ENX 22 IMR	503	–	72.2	79	79	85.8	85.8	92.6	92.6	92.6
A-max 22	180/182	MR	533	–	72.2	79.0	79.0	85.8	85.8	92.6	92.6	92.6
EC-max 16, 8 W	281			–	71.3	78.1	78.1	84.9	84.9	91.7	91.7	91.7
EC-max 16, 8 W	281	16 EASY/XT/Abs.	509–511	–	81.5	88.3	88.3	95.1	95.1	101.9	101.9	101.9
EC-max 16, 8 W	281	16 EASY Abs. XT	512	–	82.0	88.8	88.8	95.6	95.6	102.4	102.4	102.4
EC-max 22, 12 W	282			–	70.1	76.9	76.9	83.7	83.7	90.5	90.5	90.5
EC-max 22, 12 W	282	16 EASY/XT/Abs.	509–511	–	79.7	86.5	86.5	93.3	93.3	100.1	100.1	100.1
EC-max 22, 12 W	282	16 EASY Abs. XT	512	–	80.2	87.0	87.0	93.8	93.8	100.6	100.6	100.6
EC-max 22, 12 W	282	AB 20	584	–	105.7	112.5	112.5	119.3	119.3	126.1	126.1	126.1
EC-max 22, 25 W	283			86.6	86.6	93.4	93.4	100.2	100.2	107.0	107.0	107.0
EC-max 22, 25 W	283	16 EASY/XT/Abs.	509–511	96.2	96.2	103.0	103.0	109.8	109.8	116.6	116.6	116.6
EC-max 22, 25 W	283	16 EASY Abs. XT	512	96.7	96.7	103.5	103.5	110.3	110.3	117.1	117.1	117.1
EC-max 22, 25 W	283	AB 20	584	122.2	122.2	129.0	129.0	135.8	135.8	142.6	142.6	142.6