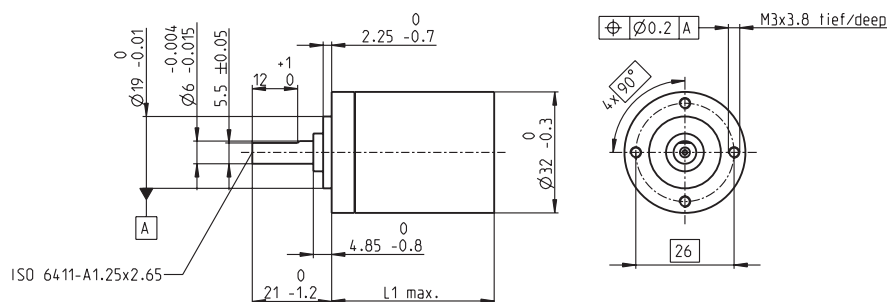


Planetary Gearhead GP 32 C Ø32 mm, 1.0–6.0 Nm

Ceramic Version



M 1:2

Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Shaft diameter as option	8 mm
Bearing at output	ball bearing
Radial play, 5 mm from flange	max. 0.14 mm
Axial play	max. 0.4 mm
Max. permissible axial load	120 N
Max. permissible force for press fits	120 N
Sense of rotation, drive to output	=
Recommended input speed	< 8000 rpm
Recommended temperature range	-40...+100°C
Number of stages	1 2 3 4 5
Max. radial load, 10 mm from flange	90 N 140 N 200 N 220 N 220 N

Option: Low-noise version

maxon gear

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

Part Numbers

Gearhead Data	166930	166933	166938	166939	166944	166949	166954	166959	166962	166967	166972	166977
1 Reduction	3.7:1	14:1	33:1	51:1	111:1	246:1	492:1	762:1	1181:1	1972:1	2829:1	4380:1
2 Reduction absolute	26/7	676/49	529/16	17576/343	13824/125	421824/1715	86112/175	19044/25	10123776/6575	8626176/4375	495144/175	109503/25
3 Max. motor shaft diameter	mm 6	6	3	6	4	4	3	3	4	4	3	3
Part Numbers	166931	166934		166940	166945	166950	166955	166960	166963	166968	166973	166978
1 Reduction	4.8:1	18:1		66:1	123:1	295:1	531:1	913:1	1414:1	2189:1	3052:1	5247:1
2 Reduction absolute	24/5	624/35		16224/245	6877/56	101062/343	331776/625	36501/40	2425488/1715	536406/245	1907712/625	839523/160
3 Max. motor shaft diameter	mm 4	4		4	3	3	4	3	3	3	3	3
Part Numbers	166932	166935		166941	166946	166951	166956	166961	166964	166969	166974	166979
1 Reduction	5.8:1	21:1		79:1	132:1	318:1	589:1	1093:1	1526:1	2362:1	3389:1	6285:1
2 Reduction absolute	23/4	299/14		3887/49	3312/25	389376/1225	20631/35	279841/256	9345024/6125	2066688/475	474513/140	6436343/1024
3 Max. motor shaft diameter	mm 3	3		3	3	4	3	3	4	3	3	3
Part Numbers		166936		166942	166947	166952	166957		166965	166970	166975	
1 Reduction		23:1		86:1	159:1	411:1	636:1		1694:1	2548:1	3656:1	
2 Reduction absolute		576/25		14976/175	1587/10	359424/875	79488/125		1162213/686	7962624/3125	457056/125	
3 Max. motor shaft diameter	mm 4	4		4	3	4	3		3	4	3	
Part Numbers		166937		166943	166948	166953	166958		166966	166971	166976	
1 Reduction		28:1		103:1	190:1	456:1	706:1		1828:1	2623:1	4060:1	
2 Reduction absolute		138/5		3588/49	12167/64	89401/196	158171/224		2238912/1225	2056223/784	3637933/696	
3 Max. motor shaft diameter	mm 3	3		3	3	3	3		3	3	3	
4 Number of stages	1	2	2	3	3	4	4	4	5	5	5	5
5 Max. continuous torque	Nm 1	3	3	6	6	6	6	6	6	6	6	6
6 Intermittently permissible torque at gear output	Nm 1.25	3.75	3.75	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
7 Max. efficiency	% 80	75	75	70	70	60	60	60	50	50	50	50
8 Weight	g 118	162	162	194	194	226	226	226	258	258	258	258
9 Average backlash no load	° 0.7	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10 Mass inertia	gcm ² 1.5	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
11 Gearhead length L1	mm 26.5	36.4	36.4	43.1	43.1	49.8	49.8	49.8	56.5	56.5	56.5	56.5

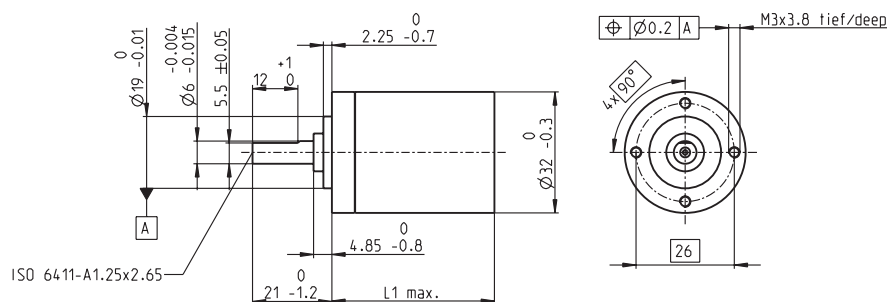


maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts								
RE 25, 10 W	99/101			81.1	91.0	91.0	97.7	97.7	104.4	104.4	111.1	111.1
RE 25, 10 W	99/101	MR	302	92.1	102.0	102.0	108.7	108.7	115.4	115.4	122.1	122.1
RE 25, 10 W	99/101	Enc 22	304	95.2	105.1	105.1	111.8	111.8	118.5	118.5	125.2	125.2
RE 25, 10 W	99/101	HED_ 5540	305/307	101.9	111.8	111.8	118.5	118.5	125.2	125.2	131.9	131.9
RE 25, 10 W	99/101	DCT 22	315	103.4	113.3	113.3	120.0	120.0	126.7	126.7	133.4	133.4
RE 25, 20 W	100			69.6	79.5	79.5	86.2	86.2	92.9	92.9	99.6	99.6
RE 25, 20 W	100	MR	302	80.6	90.5	90.5	97.2	97.2	103.9	103.9	110.6	110.6
RE 25, 20 W	100	HED_ 5540	306/309	90.4	100.3	100.3	107.0	107.0	113.7	113.7	120.4	120.4
RE 25, 20 W	100	DCT22	315	91.9	101.8	101.8	108.5	108.5	115.2	115.2	121.9	121.9
RE 25, 20 W	100	AB 28	348	103.7	113.6	113.6	120.3	120.3	127.0	127.0	133.7	133.7
RE 25, 20 W	100	HED_ 5540 / AB 28	306/348	120.9	130.8	130.8	137.5	137.5	144.2	144.2	150.9	150.9
RE 25, 20 W	101	AB 28	348	115.2	125.1	125.1	131.8	131.8	138.5	138.5	145.2	145.2
RE 25, 20 W	101	HED_ 5540 / AB 28	348	132.4	142.3	142.3	149.0	149.0	155.7	155.7	162.4	162.4
RE 30, 60 W	103			94.6	104.5	104.5	111.2	111.2	117.9	117.9	124.6	124.6
RE 30, 60 W	103	MR	303	106.0	115.9	115.9	122.6	122.6	129.3	129.3	136.0	136.0
RE 30, 60 W	103	HED_ 5540	305/307	115.4	125.3	125.3	132.0	132.0	138.7	138.7	145.4	145.4
RE 35, 90 W	104			97.6	107.5	107.5	114.2	114.2	120.9	120.9	127.6	127.6
RE 35, 90 W	104	MR	303	109.0	118.9	118.9	125.6	125.6	132.3	132.3	139.0	139.0
RE 35, 90 W	104	HED_ 5540	305/307	118.3	128.2	128.2	134.9	134.9	141.6	141.6	148.3	148.3
RE 35, 90 W	104	DCT 22	316	115.7	125.6	125.6	132.3	132.3	139.0	139.0	145.7	145.7
RE 35, 90 W	104	AB 28	348	133.7	143.6	143.6	150.3	150.3	157.0	157.0	163.7	163.7
RE 35, 90 W	104	HEDS 5540 / AB 28	305/348	150.9	160.8	160.8	167.5	167.5	174.2	174.2	180.9	180.9
A-max 26	125-132			71.3	81.2	81.2	87.9	87.9	94.6	94.6	101.3	101.3
A-max 26	126-132	MEnc 13	314	78.4	88.3	88.3	95.0	95.0	101.7	101.7	108.4	108.4
A-max 26	126-132	MR	302	80.1	90.0	90.0	96.7	96.7	103.4	103.4	110.1	110.1
A-max 26	126-132	Enc 22	304	85.7	95.6	95.6	102.3	102.3	109.0	109.0	115.7	115.7
A-max 26	126-132	HED_ 5540	306/307	89.7	99.6	99.6	106.3	106.3	113.0	113.0	119.7	119.7
A-max 32	133/135			89.5	99.4	99.4	106.1	106.1	112.8	112.8	119.5	119.5
A-max 32	134/136			88.1	98.0	98.0	104.7	104.7	111.4	111.4	118.1	118.1
A-max 32	134/136	MR	303	99.3	109.2	109.2	115.9	115.9	122.6	122.6	129.3	129.3
A-max 32	134/136	HED_ 5540	306/307	108.9	118.8	118.8	125.5	125.5	132.2	132.2	138.9	138.9

Planetary Gearhead GP 32 C Ø32 mm, 1.0–6.0 Nm

Ceramic Version



Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Shaft diameter as option	8 mm
Bearing at output	ball bearing
Radial play, 5 mm from flange	max. 0.14 mm
Axial play	max. 0.4 mm
Max. permissible axial load	120 N
Max. permissible force for press fits	120 N
Sense of rotation, drive to output	=
Recommended input speed	< 8000 rpm
Recommended temperature range	-40...+100°C
Number of stages	1 2 3 4 5
Max. radial load, 10 mm from flange	90 N 140 N 200 N 220 N 220 N

M 1:2

Option: Low-noise version

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

Part Numbers

Gearhead Data

	166930	166933	166938	166939	166944	166949	166954	166959	166962	166967	166972	166977
1 Reduction	3.7:1	14:1	33:1	51:1	111:1	246:1	492:1	762:1	1181:1	1972:1	2829:1	4380:1
2 Reduction absolute	26/7	676/49	529/16	17576/343	13824/125	421824/1715	86112/175	19044/25	10123776/8575	8626176/4375	495144/175	109503/25
3 Max. motor shaft diameter	mm 6	6	3	6	4	4	3	3	4	4	3	3
Part Numbers	166931	166934		166940	166945	166950	166955	166960	166963	166968	166973	166978
1 Reduction	4.8:1	18:1		66:1	123:1	295:1	531:1	913:1	1414:1	2189:1	3052:1	5247:1
2 Reduction absolute	24/5	624/35		16224/245	6877/56	101062/343	331776/625	36501/40	2425488/1715	536406/245	1907712/625	839523/160
3 Max. motor shaft diameter	mm 4	4		4	3	3	4	3	3	3	3	3
Part Numbers	166932	166935		166941	166946	166951	166956	166961	166964	166969	166974	166979
1 Reduction	5.8:1	21:1		79:1	132:1	318:1	589:1	1093:1	1526:1	2362:1	3389:1	6285:1
2 Reduction absolute	23/4	299/14		3887/49	3312/25	389376/1225	20631/35	279841/256	9345024/6125	2066688/875	474513/140	6436343/1024
3 Max. motor shaft diameter	mm 3	3		3	3	4	3	3	4	3	3	3
Part Numbers		166936		166942	166947	166952	166957		166965	166970	166975	
1 Reduction		23:1		86:1	159:1	411:1	636:1		1694:1	2548:1	3656:1	
2 Reduction absolute		576/25		14976/175	1587/10	359424/875	79489/125		1162213/686	7962624/3125	457056/125	
3 Max. motor shaft diameter	mm 4	4		4	3	4	3		3	4	3	
Part Numbers		166937		166943	166948	166953	166958		166966	166971	166976	
1 Reduction		28:1		103:1	190:1	456:1	706:1		1828:1	2623:1	4060:1	
2 Reduction absolute		138/5		3588/35	12167/64	89401/196	158171/224		2238912/1225	2056223/784	3637933/896	
3 Max. motor shaft diameter	mm 3	3		3	3	3	3		3	3	3	
4 Number of stages	1	2	2	3	3	4	4	4	5	5	5	5
5 Max. continuous torque	Nm 1	3	3	6	6	6	6	6	6	6	6	6
6 Intermittently permissible torque at gear output	Nm 1.25	3.75	3.75	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
7 Max. efficiency	% 80	75	75	70	70	60	60	60	50	50	50	50
8 Weight	g 118	162	162	194	194	226	226	226	258	258	258	258
9 Average backlash no load	° 0.7	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10 Mass inertia	gcm ² 1.5	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
11 Gearhead length L1	mm 26.5	36.4	36.4	43.1	43.1	49.8	49.8	49.8	56.5	56.5	56.5	56.5



maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts									
RE-max 29	155-158			71.3	81.2	81.2	87.9	87.9	94.6	94.6	101.3	101.3	101.3
RE-max 29	156/158	MR	302	80.1	90.0	90.0	96.7	96.7	103.4	103.4	110.1	110.1	110.1
EC 32, 80 W	180			86.6	96.5	96.5	103.2	103.2	109.9	109.9	116.6	116.6	116.6
EC 32, 80 W	180	HEDL 5540	306/308	105.0	114.9	114.9	121.6	121.6	128.3	128.3	135.0	135.0	135.0
EC 32, 80 W	180	Res 26	316	106.7	116.6	116.6	123.3	123.3	130.0	130.0	136.7	136.7	136.7
EC-max 22, 25 W	191			75.1	85.0	85.0	91.7	91.7	98.4	98.4	105.1	105.1	105.1
EC-max 22, 25 W	191	MR	301	84.8	94.7	94.7	101.4	101.4	108.1	108.1	114.8	114.8	114.8
EC-max 22, 25 W	191	AB 20	346	116.6	120.5	120.5	127.2	127.2	133.9	133.9	140.6	140.6	140.6
EC-max 30, 40 W	192			68.9	78.8	78.8	85.5	85.5	92.2	92.2	98.9	98.9	98.9
EC-max 30, 40 W	192	MR	302	81.1	91.0	91.0	97.7	97.7	104.4	104.4	111.1	111.1	111.1
EC-max 30, 40 W	192	HEDL 5540	308	89.5	99.4	99.4	106.1	106.1	112.8	112.8	119.5	119.5	119.5
EC-max 30, 40 W	192	AB 20	346	104.5	114.4	114.4	121.1	121.1	127.8	127.8	134.5	134.5	134.5
EC-max 30, 40 W	192	HEDL 5540 / AB 20	308/346	125.1	135.0	135.0	141.7	141.7	148.4	148.4	155.1	155.1	155.1
EC-4pole 22, 90 W	199			75.2	85.1	85.1	91.8	91.8	98.5	98.5	105.2	105.2	105.2
EC-4pole 22, 90 W	199	HEDL 5540	309	96.7	106.6	106.6	113.3	113.3	120.0	120.0	126.7	126.7	126.7
EC-4pole 22, 120 W	200			92.6	102.5	102.5	109.2	109.2	115.9	115.9	122.6	122.6	122.6
EC-4pole 22, 120 W	200	HEDL 5540	309	114.1	124.0	124.0	130.7	130.7	137.4	137.4	144.1	144.1	144.1
EC 32 flat, 15 W	214			44.5	54.4	54.4	61.1	61.1	67.8	67.8	74.5	74.5	74.5
EC 32 flat IE, IP 00	215			54.6	64.5	64.5	71.2	71.2	77.9	77.9	84.6	84.6	84.6
EC 32 flat IE, IP 40	215			56.3	66.2	66.2	72.9	72.9	79.6	79.6	86.3	86.3	86.3
EC-i 40, 50 W	216			58.3	68.2	68.2	74.9	74.9	81.6	81.6	88.3	88.3	88.3
EC-i 40, 50 W	216	MR	303	74.2	84.1	84.1	90.8	90.8	97.5	97.5	104.2	104.2	104.2
EC-i 40, 50 W	216	HEDL 5540	309	81.3	91.2	91.2	97.6	97.6	104.6	104.6	111.3	111.3	111.3
EC-i 40, 70 W	217			68.3	78.2	78.2	84.9	84.9	91.6	91.6	98.3	98.3	98.3
EC-i 40, 70 W	217	MR	303	84.2	94.1	94.1	100.8	100.8	107.5	107.5	114.2	114.2	114.2
EC-i 40, 70 W	217	HEDL 5540	309	91.3	101.2	101.2	107.9	107.9	114.6	114.6	121.3	121.3	121.3
MCD EPOS, 60 W	343			150.2	160.1	160.1	166.8	166.8	173.5	173.5	180.2	180.2	180.2
MCD EPOS P, 60 W	343			150.2	160.1	160.1	166.8	166.8	173.5	173.5	180.2	180.2	180.2