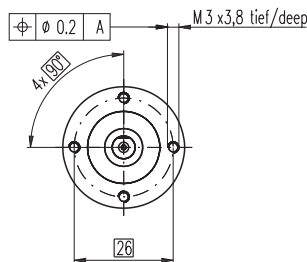
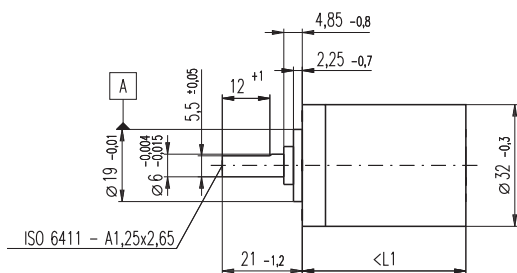


Planetary Gearhead GP 32 C Ø32 mm, 1.0 - 6.0 Nm

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. radial load, 10 mm from flange	140 N
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	-20 ... +100°C
Extended area as option	-35 ... +100°C

Option: Low-noise version

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

Order Number

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
Order Number	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
Order Number	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
Order Number		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	3	4	3		3	4	3	
Order Number		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	363793/896	
3 Max. motor shaft diameter mm		3		3	3	3	3		3	3	3	
4 Number of stages		1		2	2	3	3		4	4	5	
5 Max. continuous torque Nm		1		3	3	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 Max. efficiency %		80		75	75	70	70		60	60	50	
8 Weight g		118		162	162	194	194		226	226	258	
9 Average backlash no load °		0.7		0.8	0.8	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	
11 Gearhead length L1 mm		26.4		36.3	36.3	43.0	43.0		49.7	49.7	56.4	

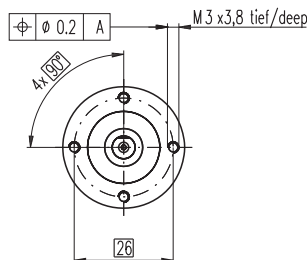
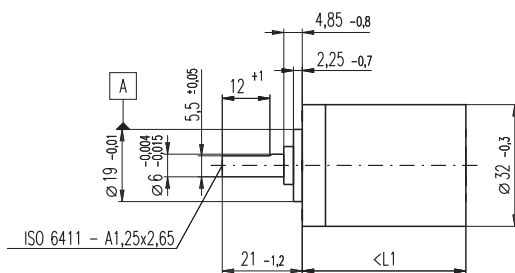
maxon Modular System

+ Motor	Page	+ Sensor / Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts									
RE 25, 10 W	77/79			81.0	90.9	90.9	97.6	97.6	104.3	104.3	111.0	111.0	111.0
RE 25, 10 W	77/79	MR	264	92.0	101.9	101.9	108.6	108.6	115.3	115.3	122.0	122.0	122.0
RE 25, 10 W	77/79	Enc 22	266	95.1	105.0	105.0	111.7	111.7	118.4	118.4	125.1	125.1	125.1
RE 25, 10 W	77/79	HED_ 5540	268/270	101.8	111.7	111.7	118.4	118.4	125.1	125.1	131.8	131.8	131.8
RE 25, 10 W	77/79	DCT 22	277	103.3	113.2	113.2	119.9	119.9	126.6	126.6	133.3	133.3	133.3
RE 25, 20 W	78			69.5	79.4	79.4	86.1	86.1	92.8	92.8	99.5	99.5	99.5
RE 25, 20 W	78	MR	264	80.5	90.4	90.4	97.1	97.1	103.8	103.8	110.5	110.5	110.5
RE 25, 20 W	78	HED_ 5540	269/272	90.3	100.2	100.2	106.9	106.9	113.6	113.6	120.3	120.3	120.3
RE 25, 20 W	78	DCT22	277	91.8	101.7	101.7	108.4	108.4	115.1	115.1	121.8	121.8	121.8
RE 25, 20 W	78	AB 28	316	103.6	113.6	113.6	120.2	120.2	126.9	126.9	133.6	133.6	133.6
RE 25, 20 W	78	HED_ 5540 / AB 28	269/316	120.8	130.7	130.7	137.4	137.4	144.1	144.1	150.8	150.8	150.8
RE 25, 20 W	79	AB 28	316	115.1	125.0	125.0	131.7	131.7	138.4	138.4	145.1	145.1	145.1
RE 25, 20 W	79	HED_ 5540 / AB 28	316	132.2	142.1	142.1	148.8	148.8	155.5	155.5	162.2	162.2	162.2
RE 30, 60 W	80			94.5	104.4	104.4	111.1	111.1	117.8	117.8	124.5	124.5	124.5
RE 30, 60 W	80	MR	265	105.9	115.8	115.8	122.5	122.5	129.2	129.2	135.9	135.9	135.9
RE 35, 90 W	81			97.4	107.3	107.3	114.0	114.0	120.7	120.7	127.4	127.4	127.4
RE 35, 90 W	81	MR	265	108.8	118.7	118.7	125.4	125.4	132.1	132.1	138.8	138.8	138.8
RE 35, 90 W	81	HED_ 5540	268/270	118.4	128.3	128.3	135.0	135.0	141.7	141.7	148.4	148.4	148.4
RE 35, 90 W	81	DCT 22	277	115.5	125.4	125.4	132.1	132.1	138.8	138.8	145.5	145.5	145.5
RE 35, 90 W	81	AB 28	316	133.5	143.4	143.4	150.1	150.1	156.8	156.8	163.5	163.5	163.5
RE 35, 90 W	81	HEDS 5540 / AB 28	268/316	150.6	160.5	160.5	167.2	167.2	173.9	173.9	180.6	180.6	180.6
A-max 26	105-112			71.2	81.1	81.1	87.8	87.8	94.5	94.5	101.2	101.2	101.2
A-max 26	106-112	MEnc 13	275	78.3	88.2	88.2	94.9	94.9	101.6	101.6	108.3	108.3	108.3
A-max 26	106-112	MR	264	80.0	89.9	89.9	96.6	96.6	103.3	103.3	110.0	110.0	110.0
A-max 26	106-112	Enc 22	267	85.6	95.5	95.5	102.2	102.2	108.9	108.9	115.6	115.6	115.6
A-max 26	106-112	HED_ 5540	169/170	90.0	99.9	99.9	106.6	106.6	113.3	113.3	120.0	120.0	120.0
A-max 32	113/115			89.4	99.3	99.3	106.0	106.0	112.7	112.7	119.4	119.4	119.4
A-max 32	114/116			88.0	97.9	97.9	104.6	104.6	111.3	111.3	118.0	118.0	118.0
A-max 32	114/116	MR	265	99.2	109.1	109.1	115.8	115.8	122.5	122.5	129.2	129.2	129.2
A-max 32	114/116	HED_ 5540	268/270	108.8	118.7	118.7	125.4	125.4	132.1	132.1	138.8	138.8	138.8

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

Ceramic Version

maxon gear



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. radial load, 10 mm from flange	140 N
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	-20 ... +100°C
Extended area as option	-35 ... +100°C

Option: Low-noise version

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

Order Number

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	3	3	4	4	3	3
Order Number	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
Order Number	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
Order Number		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	3	4	3		3	4	3	
Order Number		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	1	2	2	3	3	4	4	5	5	5	5
4 Number of stages		1	2	2	3	3	4	4	5	5	5	5
5 Max. continuous torque	Nm	1	3	3	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 Max. efficiency	%	80	75	75	70	70	60	60	60	50	50	50
8 Weight	g	118	162	162	194	194	226	226	226	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
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
11 Gearhead length L1	mm	26.4	36.3	36.3	43.0	43.0	49.7	49.7	49.7	56.4	56.4	56.4

maxon Modular System

+ Motor	Page	+ Sensor / Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts									
RE-max 29	135-138			71.2	81.1	81.1	87.8	87.8	94.5	94.5	94.5	101.2	101.2
RE-max 29	136/138	MR	264	80.0	89.9	89.9	96.6	96.6	103.3	103.3	103.3	110.0	110.0
EC 32, 80 W	156			86.5	96.4	96.4	103.1	103.1	109.8	109.8	109.8	116.5	116.5
EC 32, 80 W	156	HED_ 5540	269/271	104.9	114.8	114.8	121.5	121.5	128.2	128.2	128.2	134.9	134.9
EC 32, 80 W	156	Res 26	278	106.6	116.5	116.5	123.2	123.2	129.9	129.9	129.9	136.6	136.6
EC-max 22, 25 W	169			75.0	84.9	84.9	91.6	91.6	98.3	98.3	98.3	105.0	105.0
EC-max 22, 25 W	169	MR	263	84.7	94.6	94.6	101.3	101.3	108.0	108.0	108.0	114.7	114.7
EC-max 22, 25 W	169	AB 20	314	110.6	120.5	120.5	127.2	127.2	133.9	133.9	133.9	140.6	140.6
EC-max 30, 40 W	170			68.5	78.4	78.4	85.1	85.1	91.8	91.8	91.8	98.5	98.5
EC-max 30, 40 W	170	MR	264	80.7	90.6	90.6	97.3	97.3	104.0	104.0	104.0	110.7	110.7
EC-max 30, 40 W	170	HEDL 5540	271	89.1	99.0	99.0	105.7	105.7	112.4	112.4	112.4	119.1	119.1
EC-max 30, 40 W	170	AB 20	314	104.1	114.0	114.0	120.7	120.7	127.4	127.4	127.4	134.1	134.1
EC-max 30, 40 W	170	HEDL 5540 / AB 20	271/314	128.1	138.0	138.0	144.7	144.7	151.4	151.4	151.4	158.1	158.1
EC-power 22, 90 W	177			75.1	85.0	85.0	91.7	91.7	98.4	98.4	98.4	105.1	105.1
EC-power 22, 90 W	177	HEDL 5540	272	96.6	106.5	106.5	113.2	113.2	119.9	119.9	119.9	126.6	126.6
EC-power 22, 120 W	178			92.5	102.4	102.4	109.1	109.1	115.8	115.8	115.8	122.5	122.5
EC-power 22, 120 W	178	HEDL 5540	272	114.0	123.9	123.9	130.6	130.6	137.3	137.3	137.3	144.0	144.0
MCD EPOS, 60 W	311			146.5	156.4	156.4	163.1	163.1	169.8	169.8	169.8	176.5	176.5
MCD EPOS P, 60 W	311			146.5	156.4	156.4	163.1	163.1	169.8	169.8	169.8	176.5	176.5
EC 32 flat, 15 W	190			44.4	54.3	54.3	61.0	61.0	67.7	67.7	67.7	74.4	74.4
EC 32 flat IE, IP 00	191			54.5	64.4	64.4	71.1	71.1	77.8	77.8	77.8	84.5	84.5
EC 32 flat IE, IP 40	191			56.2	66.1	66.1	72.8	72.8	79.5	79.5	79.5	86.2	86.2
EC-i 40, 50 W	192			58.0	67.9	67.9	74.6	74.6	81.3	81.3	81.3	88.0	88.0
EC-i 40, 50 W	192	MR	265	73.7	83.6	83.6	90.3	90.3	97.0	97.0	97.0	103.7	103.7
EC-i 40, 50 W	192	HEDL 5540	272	81.4	91.3	91.3	98.0	98.0	104.7	104.7	104.7	111.4	111.4
EC-i 40, 70 W	193			68.0	77.9	77.9	84.6	84.6	91.3	91.3	91.3	98.0	98.0
EC-i 40, 70 W	193	MR	265	83.7	93.6	93.6	100.3	100.3	107.0	107.0	107.0	113.7	113.7
EC-i 40, 70 W	193	HEDL 5540	272	91.4	101.3	101.3	108.0	108.0	114.7	114.7	114.7	121.4	121.4