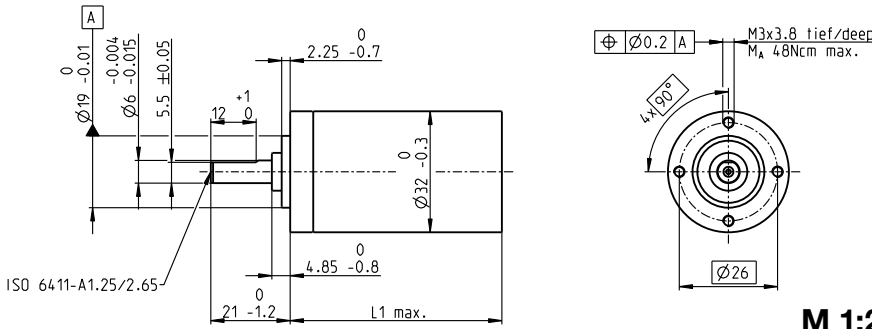


Planetary Gearhead GP 32 C $\varnothing 32$ mm, 1.0–6.0 Nm

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. axial load (dynamic)	120 N
Max. force for press fits	120 N
Direction of rotation, drive to output	=
Max. continuous 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

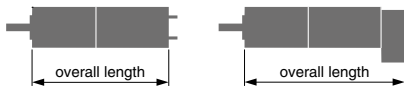
M 1:2

Option: Low-noise version

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

Part Numbers

		166930	166933	166938	166939	166944	166949	166954	166959	166962	166967	166972	166977
Gearhead Data													
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 Absolute reduction		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
		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 Absolute reduction		²⁴ / ₅	⁶²⁴ / ₃₅		¹⁶²²⁴ / ₂₄₅	⁶⁸⁷ / ₅₆	¹⁰¹⁰⁶² / ₃₄₃	³³¹⁷⁷⁶ / ₆₂₅	³⁶⁵⁰ / 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
		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 Absolute reduction		²³ / ₄	²⁹⁹ / ₁₄		³⁸⁸⁷ / ₄₉	³³¹² / ₂₅	³⁸⁹³⁷⁶ / ₁₂₂₅	²⁰⁶³ / ₃₅	²⁷⁹⁸⁴ / ₂₅₆	⁹³⁴⁵⁰²⁴ / ₆₁₂₅	²⁰⁶⁶⁶⁸⁸ / ₈₇₅	⁴⁷⁴⁵¹³ / ₁₄₀	⁶⁴³⁶³⁴³ / ₁₀₂₄
3 Max. motor shaft diameter	mm	3	3		3	3	4	3	3	3	3	3	3
		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 Absolute reduction		⁵⁷⁶ / ₂₅		¹⁴⁹⁷⁶ / ₁₇₅	¹⁵⁸⁷ / ₁₀	³⁵⁹⁴²⁴ / ₈₇₅	⁷⁹⁴⁸⁸ / ₁₂₅		¹¹⁶²²¹³ / ₆₈₆	⁷⁹⁶²⁶²⁴ / ₃₁₂₅	⁴⁵⁷⁰⁵⁶ / ₁₂₅		
3 Max. motor shaft diameter	mm	4		3	3	4	3		3	4	3		
		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 Absolute reduction		¹³⁸ / ₅		³⁵⁸⁹ / ₃₅	¹²¹⁶⁷ / ₆₄	⁸⁹⁴⁰¹ / ₁₉₆	¹⁵⁸¹⁷ / ₂₂₄		²²³⁸⁹¹² / ₁₂₂₅	²⁰⁵⁶²²³ / ₇₈₄	³⁶³⁷⁹³³ / 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	4	5	5	5	5
5 Max. continuous torque	Nm	1	3	3	6	6	6	6	6	6	6	6	6
6 Max. intermittent 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	125			81.1	91.0	91.0	97.7	97.7	104.4	104.4	111.1	111.1	111.1	111.1
RE 25, 10 W	125	MR	419	92.1	102.0	102.0	108.7	108.7	115.4	115.4	122.1	122.1	122.1	122.1
RE 25, 10 W	125	Enc 22	426	95.2	105.1	105.1	111.8	111.8	118.5	118.5	125.2	125.2	125.2	125.2
RE 25, 10 W	125	HED_5540	429/431	101.9	111.8	111.8	118.5	118.5	125.2	125.2	131.9	131.9	131.9	131.9
RE 25, 10 W	125	DCT 22	438	103.4	113.3	113.3	120.0	120.0	126.7	126.7	133.4	133.4	133.4	133.4
RE 25, 20 W	126			69.6	79.5	79.5	86.2	86.2	92.9	92.9	99.6	99.6	99.6	99.6
RE 25, 20 W	126	MR	419	80.6	90.5	90.5	97.2	97.2	103.9	103.9	110.6	110.6	110.6	110.6
RE 25, 20 W	126	HED_5540	430/433	90.4	100.3	100.3	107.0	107.0	113.7	113.7	120.4	120.4	120.4	120.4
RE 25, 20 W	126	DCT22	438	91.9	101.8	101.8	108.5	108.5	115.2	115.2	121.9	121.9	121.9	121.9
RE 25, 20 W	126	AB 28	480	103.7	113.6	113.6	120.3	120.3	127.0	127.0	133.7	133.7	133.7	133.7
RE 25, 20 W	126	HED_5540/AB 28	430/480	120.9	130.8	130.8	137.5	137.5	144.2	144.2	150.9	150.9	150.9	150.9
RE 25, 20 W	127	AB 28	480	115.2	125.1	125.1	131.8	131.8	138.5	138.5	145.2	145.2	145.2	145.2
RE 25, 20 W	127	HED_5540/AB 28	480	132.4	142.3	142.3	149.0	149.0	155.7	155.7	162.4	162.4	162.4	162.4
RE 30, 60 W	129			94.6	104.5	104.5	111.2	111.2	117.9	117.9	124.6	124.6	124.6	124.6
RE 30, 60 W	129	MR	420	106.0	115.9	115.9	122.6	122.6	129.3	129.3	136.0	136.0	136.0	136.0
RE 30, 60 W	129	HED_5540	429/431	115.4	125.3	125.3	132.0	132.0	138.7	138.7	145.4	145.4	145.4	145.4
RE 35, 90 W	130			97.6	107.5	107.5	114.2	114.2	120.9	120.9	127.6	127.6	127.6	127.6
RE 35, 90 W	130	MR	420	109.0	118.9	118.9	125.6	125.6	132.3	132.3	139.0	139.0	139.0	139.0
RE 35, 90 W	130	HED_5540	429/431	118.3	128.2	128.2	134.9	134.9	141.6	141.6	148.3	148.3	148.3	148.3
RE 35, 90 W	130	DCT 22	438	115.7	125.6	125.6	132.3	132.3	139.0	139.0	145.7	145.7	145.7	145.7
RE 35, 90 W	130	AB 28	480	133.7	143.6	143.6	150.3	150.3	157.0	157.0	163.7	163.7	163.7	163.7
RE 35, 90 W	130	HEDS 5540/AB 28	429/480	150.9	160.8	160.8	167.5	167.5	174.2	174.2	180.9	180.9	180.9	180.9
A-max 26	151-158			71.3	81.2	81.2	87.9	87.9	94.6	94.6	101.3	101.3	101.3	101.3
A-max 26	152-158	MEnc 13	408	78.4	88.3	88.3	95.0	95.0	101.7	101.7	108.4	108.4	108.4	108.4
A-max 26	152-158	MR	419	80.1	90.0	90.0	96.7	96.7	103.4	103.4	110.1	110.1	110.1	110.1
A-max 26	152-158	Enc 22	426	85.7	95.6	95.6	102.3	102.3	109.0	109.0	115.7	115.7	115.7	115.7
A-max 26	152-158	HED_5540	430/432	89.7	99.6	99.6	106.3	106.3	113.0	113.0	119.7	119.7	119.7	119.7
A-max 32	159/161			89.5	99.4	99.4	106.1	106.1	112.8	112.8	119.5	119.5	119.5	119.5
A-max 32	160/162			88.1	98.0	98.0	104.7	104.7	111.4	111.4	118.1	118.1	118.1	118.1
A-max 32	160/162	MR	420	99.3	109.2	109.2	115.9	115.9	122.6	122.6	129.3	129.3	129.3	129.3
A-max 32	160/162	HED_5540	430/432	108.9	118.8	118.8	125.5	125.5	132.2	132.2	138.9	138.9	138.9	138.9