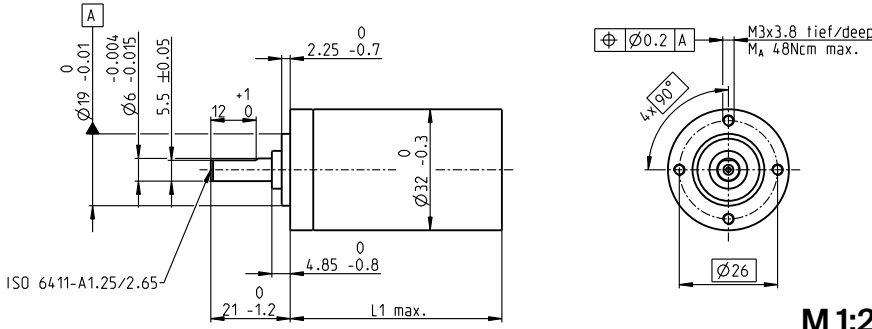


Planetary Gearhead GP 32 C $\varnothing 32$ mm, 1.0–6.0 Nm

Ceramic Version

gear



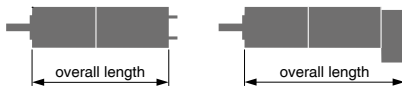
Technical Data

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

Gearhead Data	Part Numbers											
	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 Absolute reduction	$\frac{26}{7}$	$\frac{676}{49}$	$\frac{529}{16}$	$\frac{17576}{343}$	$\frac{13824}{125}$	$\frac{421824}{1715}$	$\frac{86112}{175}$	$\frac{19044}{25}$	$\frac{10123776}{8575}$	$\frac{8626176}{4375}$	$\frac{495144}{175}$	$\frac{109503}{25}$
3 Max. motor shaft diameter	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 Absolute reduction	$\frac{24}{5}$	$\frac{624}{35}$		$\frac{16224}{245}$	$\frac{687}{56}$	$\frac{101062}{343}$	$\frac{331776}{625}$	$\frac{36501}{40}$	$\frac{2425488}{1715}$	$\frac{536406}{245}$	$\frac{1907712}{625}$	$\frac{839523}{160}$
3 Max. motor shaft diameter	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 Absolute reduction	$\frac{23}{4}$	$\frac{299}{14}$		$\frac{3887}{49}$	$\frac{3312}{25}$	$\frac{389376}{1225}$	$\frac{20631}{35}$	$\frac{279841}{256}$	$\frac{9345024}{6125}$	$\frac{2066688}{875}$	$\frac{474513}{140}$	$\frac{6436343}{1024}$
3 Max. motor shaft diameter	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 Absolute reduction		$\frac{576}{25}$		$\frac{14976}{175}$	$\frac{1587}{10}$	$\frac{359424}{875}$	$\frac{79488}{125}$		$\frac{1162213}{686}$	$\frac{7962624}{3125}$	$\frac{457056}{125}$	
3 Max. motor shaft diameter		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 Absolute reduction		$\frac{138}{5}$		$\frac{3589}{35}$	$\frac{12167}{64}$	$\frac{89401}{196}$	$\frac{158171}{224}$		$\frac{2238912}{1225}$	$\frac{2056223}{784}$	$\frac{3637933}{896}$	
3 Max. motor shaft diameter		3		3	3	3	3		3	3	3	
4 Number of stages		1	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 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 Max. efficiency	%	80	75	75	70	70	60	60	60	50	50	50
8 Weight	g	118	162	162	194	194	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
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	26.5	36.4	36.4	43.1	43.1	49.8	49.8	49.8	56.5	56.5	56.5

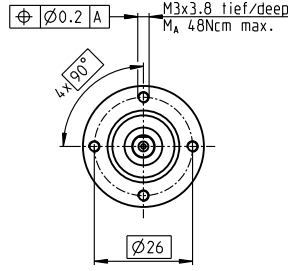
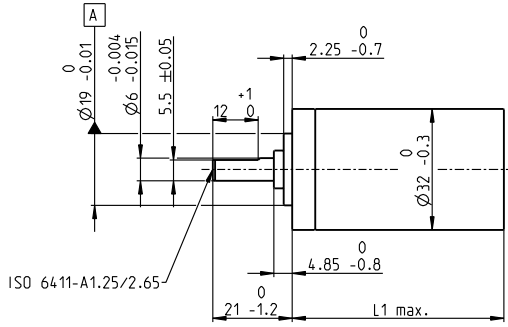


maxon Modular System												
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts								
RE 25, 10 W	144			81.1	91.0	91.0	97.7	97.7	104.4	104.4	111.1	111.1
RE 25, 10 W	144	MR	478	92.1	102.0	102.0	108.7	108.7	115.4	115.4	122.1	122.1
RE 25, 10 W	144	Enc 22	483	95.2	105.1	105.1	111.8	111.8	118.5	118.5	125.2	125.2
RE 25, 10 W	144	HED_5540	486/488	101.9	111.8	111.8	118.5	118.5	125.2	125.2	131.9	131.9
RE 25, 10 W	144	DCT 22	495	103.4	113.3	113.3	120.0	120.0	126.7	126.7	133.4	133.4
RE 25, 20 W	145			69.6	79.5	79.5	86.2	86.2	92.9	92.9	99.6	99.6
RE 25, 20 W	145	MR	478	80.6	90.5	90.5	97.2	97.2	103.9	103.9	110.6	110.6
RE 25, 20 W	145	HED_5540	486-488	90.4	100.3	100.3	107.0	107.0	113.7	113.7	120.4	120.4
RE 25, 20 W	145	DCT 22	495	91.9	101.8	101.8	108.5	108.5	115.2	115.2	121.9	121.9
RE 25, 20 W	145	AB 28	535	103.7	113.6	113.6	120.3	120.3	127.0	127.0	133.7	133.7
RE 25, 20 W	145	HED_5540/AB 28	486/535	120.9	130.8	130.8	137.5	137.5	144.2	144.2	150.9	150.9
RE 25, 20 W	146	AB 28	535	115.2	125.1	125.1	131.8	131.8	138.5	138.5	145.2	145.2
RE 25, 20 W	146	HED_5540/AB 28	486/535	132.4	142.3	142.3	149.0	149.0	155.7	155.7	162.4	162.4
RE 30, 60 W	148			94.6	104.5	104.5	111.2	111.2	117.9	117.9	124.6	124.6
RE 30, 60 W	148	MR	479	106.0	115.9	115.9	122.6	122.6	129.3	129.3	136.0	136.0
RE 30, 60 W	148	HED_5540	486/488	115.4	125.3	125.3	132.0	132.0	138.7	138.7	145.4	145.4
RE 35, 90 W	149			97.6	107.5	107.5	114.2	114.2	120.9	120.9	127.6	127.6
RE 35, 90 W	149	MR	479	109.0	118.9	118.9	125.6	125.6	132.3	132.3	139.0	139.0
RE 35, 90 W	149	HED_5540	486/488	118.3	128.2	128.2	134.9	134.9	141.6	141.6	148.3	148.3
RE 35, 90 W	149	DCT 22	495	115.7	125.6	125.6	132.3	132.3	139.0	139.0	145.7	145.7
RE 35, 90 W	149	AB 28	535	133.7	143.6	143.6	150.3	150.3	157.0	157.0	163.7	163.7
RE 35, 90 W	149	HEDS 5540/AB 28	486/535	150.9	160.8	160.8	167.5	167.5	174.2	174.2	180.9	180.9
A-max 26	171-174			71.3	81.2	81.2	87.9	87.9	94.6	94.6	101.3	101.3
A-max 26	171-174	MR	478	80.1	90.0	90.0	96.7	96.7	103.4	103.4	110.1	110.1
A-max 26	171-174	Enc 22	483	85.7	95.6	95.6	102.3	102.3	109.0	109.0	115.7	115.7
A-max 26	171-174	HED_5540	487/489	89.7	99.6	99.6	106.3	106.3	113.0	113.0	119.7	119.7
A-max 32, 20 W	175			89.5	99.4	99.4	106.1	106.1	112.8	112.8	119.5	119.5
A-max 32, 20 W	176			88.1	98.0	98.0	104.7	104.7	111.4	111.4	118.1	118.1
A-max 32, 20 W	176	MR	479	99.3	109.2	109.2	115.9	115.9	122.6	122.6	129.3	129.3
A-max 32, 20 W	176	HED_5540	487/489	108.9	118.8	118.8	125.5	125.5	132.2	132.2	138.9	138.9

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

Ceramic Version

gear



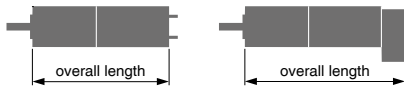
M 1:2

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. 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

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
166931	166934		166940	166945	166950	166955	166960	166963	166968	166973	166978
166932	166935		166941	166946	166951	166956	166961	166964	166969	166974	166979
	166936		166942	166947	166952	166957		166965	166970	166975	
	166937		166943	166948	166953	166958		166966	166971	166976	

maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts											
EC-i 30, 20 W	267			68.6	78.5	78.5	85.2	85.2	91.9	91.9	91.9	98.6	98.6	98.6	98.6
EC-i 30, 30 W	268			68.8	78.7	78.7	85.4	85.4	92.1	92.1	92.1	98.8	98.8	98.8	98.8
EC-i 30, 30 W	268	16 EASY/Abs.	464-468	80.5	90.4	90.4	97.1	97.1	103.8	103.8	103.8	110.5	110.5	110.5	110.5
EC-i 30, 30 W	268	16 RIO	481	79.0	88.9	88.9	95.6	95.6	102.3	102.3	102.3	109.0	109.0	109.0	109.0
EC-i 30, 30 W	268	AEDL/HEDL	484/491	89.5	99.4	99.4	106.1	106.1	112.8	112.8	112.8	119.5	119.5	119.5	119.5
EC-i 30, 45 W	397			68.8	78.7	78.7	85.4	85.4	92.1	92.1	92.1	98.8	98.8	98.8	98.8
EC-i 30, 45 W	397	16 EASY/Abs.	464-468	80.5	90.4	90.4	97.1	97.1	103.8	103.8	103.8	110.5	110.5	110.5	110.5
EC-i 30, 45 W	397	16 RIO	481	79.0	88.9	88.9	95.6	95.6	102.3	102.3	102.3	109.0	109.0	109.0	109.0
EC-i 30, 45 W	397	AEDL/HEDL	484/491	89.5	99.4	99.4	106.1	106.1	112.8	112.8	112.8	119.5	119.5	119.5	119.5
EC-i 30, 50 W	270			90.8	100.7	100.7	107.4	107.4	114.1	114.1	114.1	120.8	120.8	120.8	120.8
EC-i 30, 50 W	270	16 EASY/Abs.	465-469	102.5	112.4	112.4	119.1	119.1	125.8	125.8	125.8	132.5	132.5	132.5	132.5
EC-i 30, 50 W	270	16 RIO	482	101.0	110.9	110.9	117.6	117.6	124.3	124.3	124.3	131.0	131.0	131.0	131.0
EC-i 30, 50 W	270	AEDL/HEDL	484/491	111.5	121.4	121.4	128.1	128.1	134.8	134.8	134.8	141.5	141.5	141.5	141.5
EC-i 30, 75 W	271			90.8	100.7	100.7	107.4	107.4	114.1	114.1	114.1	120.8	120.8	120.8	120.8
EC-i 30, 75 W	271	16 EASY/Abs.	465-469	102.5	112.4	112.4	119.1	119.1	125.8	125.8	125.8	132.5	132.5	132.5	132.5
EC-i 30, 75 W	271	16 RIO	482	101.0	110.9	110.9	117.6	117.6	124.3	124.3	124.3	131.0	131.0	131.0	131.0
EC-i 30, 75 W	271	AEDL/HEDL	484/491	111.5	121.4	121.4	128.1	128.1	134.8	134.8	134.8	141.5	141.5	141.5	141.5
EC-i 40, 50 W	272			58.3	68.2	68.2	74.9	74.9	81.6	81.6	81.6	88.3	88.3	88.3	88.3
EC-i 40, 50 W	272	16 EASY/Abs.	465-469	70.0	79.9	79.9	86.6	86.6	93.3	93.3	93.3	100.0	100.0	100.0	100.0
EC-i 40, 50 W	272	16 RIO	482	72.8	82.7	82.7	89.4	89.4	96.1	96.1	96.1	102.8	102.8	102.8	102.8
EC-i 40, 50 W	272	AEDL/HEDL	485/492	81.3	91.2	91.2	97.9	97.9	104.6	104.6	104.6	111.3	111.3	111.3	111.3
EC-i 40, 70 W	274			68.3	78.2	78.2	84.9	84.9	91.6	91.6	91.6	98.3	98.3	98.3	98.3
EC-i 40, 70 W	274	16 EASY/Abs.	465-469	80.0	89.9	89.9	96.6	96.6	103.3	103.3	103.3	110.0	110.0	110.0	110.0
EC-i 40, 70 W	274	16 RIO	482	82.8	92.7	92.7	99.4	99.4	106.1	106.1	106.1	112.8	112.8	112.8	112.8
EC-i 40, 70 W	274	AEDL/HEDL	485/492	91.3	101.2	101.2	107.9	107.9	114.6	114.6	114.6	121.3	121.3	121.3	121.3
EC 32 flat, 15 W	292			44.5	54.4	54.4	61.1	61.1	67.8	67.8	67.8	74.5	74.5	74.5	74.5
EC 32 flat IE, IP 00	293			54.6	64.5	64.5	71.2	71.2	77.9	77.9	77.9	84.6	84.6	84.6	84.6
EC 32 flat IE, IP 40	293			56.3	66.2	66.2	72.9	72.9	79.6	79.6	79.6	86.3	86.3	86.3	86.3
EC 45 flat, 30 W, A	295			43.1	53.0	53.0	59.7	59.7	66.4	66.4	66.4	73.1	73.1	73.1	73.1
EC 45 flat, 30 W, cable	295			44.4	54.3	54.3	61.0	61.0	67.7	67.7	67.7	74.4	74.4	74.4	74.4
EC 45 flat, 30 W, A	295	MILE	461	45.2	55.1	55.1	61.8	61.8	68.5	68.5	68.5	75.2	75.2	75.2	75.2
EC 45 flat, 50 W, A	296			48.6	58.5	58.5	65.2	65.2	71.9	71.9	71.9	78.6	78.6	78.6	78.6
EC 45 flat, 50 W, A	296	MILE	461	49.2	59.1	59.1	65.8	65.8	72.5	72.5	72.5	79.2	79.2	79.2	79.2
EC 45 flat, 60 W, A	297			48.6	58.5	58.5	65.2	65.2	71.9	71.9	71.9	78.6	78.6	78.6	78.6
EC 45 flat, 60 W, A	297	MILE	461	49.4	59.3	59.3	66.0	66.0	72.7	72.7	72.7	79.4	79.4	79.4	79.4
EC 45 flat, 90 W, A	298			54.6	64.5	64.5	71.2	71.2	77.9	77.9	77.9	84.6	84.6	84.6	84.6
EC 45 flat, 90 W, A	298	MILE	461	55.4	65.3	65.3	72.0	72.0	78.7	78.7	78.7	85.4	85.4	85.4	85.4
EC 45 flat, 70 W, A	299			53.6	63.5	63.5	70.2	70.2	76.9	76.9	76.9	83.6	83.6	83.6	83.6
EC 45 flat, 70 W, A	299	MILE	461	55.0	64.9	64.9	71.6	71.6	78.3	78.3	78.3	85.0	85.0	85.0	85.0
EC 45 flat, 80 W, A	300			53.6	63.5	63.5	70.2	70.2	76.9	76.9	76.9	83.6	83.6	83.6	83.6
EC 45 flat, 80 W, A	300	MILE	461	54.4	64.3	64.3	71.0	71.0	77.7	77.7	77.7	84.4	84.4	84.4	84.4
EC 45 flat, 120 W, A	301			59.6	69.5	69.5	76.2	76.2	82.9	82.9	82.9	89.6	89.6	89.6	89.6
EC 45 flat, 120 W, A	301	MILE	461	60.4	70.3	70.3	77.0	77.0	83.7	83.7	83.7	90.4	90.4	90.4	90.4
EC 45 flat, IE, IP 00 302				62.4	72.3	72.3	79.0	79.0	85.7	85.7	85.7	92.4	92.4	92.4	92.4
EC 45 flat, IE, IP 40 302				64.6	74.5	74.5	81.2	81.2	87.9	87.9	87.9	94.6	94.6	94.6	94.6
EC 45 flat, IE, IP 00 303				67.4	77.3	77.3	84.0	84.0	90.7	90.7	90.7	97.4	97.4	97.4	97.4
EC 45 flat, IE, IP 40 303				69.6	79.5	79.5	86.2	86.2	92.9	92.9	92.9	99.6	99.6	99.6	99.6