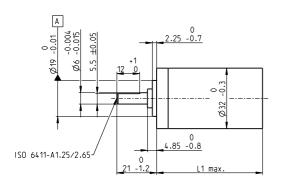
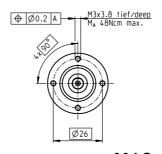
Planetary Gearhead GP 32 A Ø32 mm, 0.75-4.5 Nm





Planetary Gearhead straight teeth Output shaft stainless steel Shaft diameter as option Bearing at output Radial play, 5 mm from flange 8 mm ball bearing max. 0.14 mm Axial play max. 0.4 mm Max. axial load (dynamic) 120 N 120 N Max. force for press fits
Direction of rotation, drive to output Max. continuous input speed 6000 rpm Recommended temperature range -40...+100°C Number of stages Max. radial load, 10 mm from flange 90 N

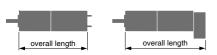
90 N 140 N 200 N 220 N 220 N

M 1:2

Option: Low-noise version

Technical Data

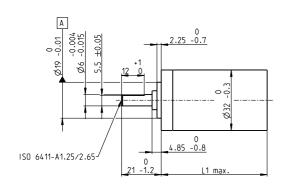
	Stock program	Part Nur	nbers											
	Standard program													
	Special program (on request)	ſ	166155	166158	166163	166164	166169	166174	166179	166184	166187	166192	166197	166202
Gea	arhead Data													
1	Reduction		3.7:1	14:1	33:1	51:1	111:1	246:1	492:1	762:1	1181:1	1972:1	2829:1	4380:1
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
	Part Numbers		166156	166159		166165	166170	166175	166180	166185	166188	166193	166198	166203
1	Reduction		4.8:1	18:1		66:1	123:1	295:1	531:1	913:1	1414:1	2189:1		5247:1
2	Absolute reduction		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		166157	166160		166166	166171	166176	166181	166186	166189	166194	166199	166204
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	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			166161		166167	166172	166177	166182		166190	166195	166200	
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		4	3	4	3		3	4	3	
	Part Numbers			166162		166168	166173	166178	166183		166191	166196	166201	
1	Reduction			28:1		103:1	190:1	456:1	706:1		1828:1			
2	Absolute reduction			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	
4	Number of stages		1	2	2	3	3	4	4	4	5	5	5	5
5	Max. continuous torque	Nm	0.75	2.25	2.25	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
6	Max. intermittent torque at gear output	Nm	1.1	3.4	3.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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	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 go	cm 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 I 1	mm	26.5	36.4	36.4	431	431	498	49.8	49.8	56.5	56.5	56.5	56.5

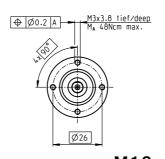




maxon Modular System															
+ Motor	Page	+ Sensor/Brake	Page	Overall I	length [m	im] = Mot	tor length	+ gearhe	ead lengtl	n + (sens	or/brake)	+ asseml	oly parts		
RE 25	144/14	6		81.1	91.0	91.0	97.7	97.7	104.4	104.4	104.4	111.1	111.1	111.1	111.1
RE 25	144/14	6 MR	478	92.1	102.0	102.0	108.7	108.7	115.4	115.4	115.4	122.1	122.1	122.1	122.1
RE 25	144/14	6 Enc 22	483	95.2	105.1	105.1	111.8	111.8	118.5	118.5	118.5	125.2	125.2	125.2	125.2
RE 25	144/14	6 HED_5540	486/488	101.9	111.8	111.8	118.5	118.5	125.2	125.2	125.2	131.9	131.9	131.9	131.9
RE 25	144/14	6 DCT 22	495	103.4	113.3	113.3	120.0	120.0	126.7	126.7	126.7	133.4	133.4	133.4	133.4
RE 25, 20 W	145			69.6	79.5	79.5	86.2	86.2	92.9	92.9	92.9	99.6	99.6	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	103.9	110.6	110.6	110.6	110.6
RE 25, 20 W	145	HED_5540	487/490	90.4	100.3	100.3	107.0	107.0	113.7	113.7	113.7	120.4	120.4	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	115.2	121.9	121.9	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	127.0	133.7	133.7	133.7	133.7
RE 25, 20 W	145	HED_5540/AB 28	487/535	120.9	130.8	130.8	137.5	137.5	144.2	144.2	144.2	150.9	150.9	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	138.5	145.2	145.2	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	155.7	162.4	162.4	162.4	162.4
RE 30, 15 W	147			94.6	104.5	104.5	111.2	111.2	117.9	117.9	117.9	124.6	124.6	124.6	124.6
RE 30, 15 W	147	MR	479	106.0	115.9	115.9	122.6	122.6	129.3	129.3	129.3	136.0	136.0	136.0	136.0
RE 30, 15 W	147	HED_5540	486/488	115.4	125.3	125.3	132.0	132.0	138.7	138.7	138.7	145.4	145.4	145.4	145.4
RE 30, 60 W	148			94.6	104.5	104.5	111.2	111.2	117.9	117.9	117.9	124.6	124.6	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	129.3	136.0	136.0	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	138.7	145.4	145.4	145.4	145.4
RE 35, 90 W	149			97.6	107.5	107.5	114.2	114.2	120.9	120.9	120.9	127.6	127.6	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	132.3	139.0	139.0	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	141.6	148.3	148.3	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	139.0	145.7	145.7	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	157.0	163.7	163.7	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	174.2	180.9	180.9	180.9	180.9

Planetary Gearhead GP 32 A Ø32 mm, 0.75-4.5 Nm

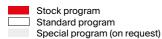


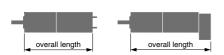


Technical Data	
Planetary Gearhead	straight teeth
Output shaft	stainless steel
Shaft diameter as option	8 mm
Bearing at output	ball bearing
Radial play, 5 mm from flange	max. 0.14 mm
Axial play	max. 0.4 mm
Max. axial load (dynamic)	120 N
Max. force for press fits	120 N
Direction of rotation, drive to output	=
Max. continuous input speed	6000 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	I 220 N 220 N

M 1:2

Option: Low-noise version





Part Nui	mbers										
166155	166158	166163	166164	166169	166174	166179	166184	166187	166192	166197	166202
166156	166159		166165	166170	166175	166180	166185	166188	166193	166198	166203
166157	166160		166166	166171	166176	166181	166186	166189	166194	166199	166204
	166161		166167	166172	166177	166182		166190	166195	166200	
	166162		166168	166173	166178	166183		166191	166196	166201	

⊦ Motor	Page	+ Sensor/Brake	Page	Overall I	enath (m	m] = Mote	or length	+ gearhea	ad length	+ (sensor	/hrake) +	assembly	/ narts		
A-max 26	171-174	. concentration	. ago	71.3	81.2	81.2	87.9	87.9	94.6	94.6	94.6	101.3	101.3	101.3	101
A-max 26	171-174	MR	478	80.1	90.0	90.0	96.7	96.7	103.4	103.4	103.4	110.1	110.1	110.1	110
A-max 26	171-174		483	85.7	95.6	95.6	102.3	102.3	109.0	109.0	109.0	115.7	115.7	115.7	115
A-max 26		HED 5540	487/489	89.7	99.6	99.6	106.3	106.3	113.0	113.0	113.0	119.7	119.7	119.7	119
4-max 32	175	1120_3340	4017409	89.5	99.4	99.4	106.3	106.3	112.8	112.8	112.8	119.7	119.7	119.7	119
A-max 32	176			88.1	98.0	98.0	104.7	104.7	111.4	111.4	111.4	118.1	118.1	118.1	118
4-max 32	176	MR	479	99.3	109.2	109.2	115.9	115.9	122.6	122.6	122.6	129.3	129.3	129.3	129
A-max 32	176	HED_5540	487/489	108.9	118.8	118.8	125.5	125.5	132.2	132.2	132.2	138.9	138.9	138.9	138
EC 32, 80 W	238	11LD_3340	4017409	86.6	96.5	96.5	103.2	103.2	109.9	109.9	109.9	116.6	116.6	116.6	116
C 32, 80 W	238	HED 5540	487/490	105.0	114.9	114.9	121.6	121.6	128.3	128.3	128.3	135.0	135.0	135.0	135
C 32, 80 W	238	Res 26	496	106.7	114.9	114.9	123.3	123.3	130.0	130.0	130.0	136.7	136.7	136.7	136
C 32, 80 W C-max 30, 40 W		Res 20	490	68.6	78.5	78.5	85.2	85.2	91.9	91.9	91.9	98.6	98.6	98.6	98.
		MR	478		90.7	90.7		97.4					110.8		110
C-max 30, 40 W C-max 30, 40 W		HEDL 5540	478	80.8 89.2	90.7	90.7	97.4 105.8	105.8	104.1 112.5	104.1 112.5	104.1 112.5	110.8 119.2	110.8	110.8 119.2	110
, .													134.2		
C-max 30, 40 W		AB 20	532	104.2	114.1	114.1	120.8	120.8	127.5	127.5	127.5	134.2		134.2	134
C-max 30, 40 W		HEDL 5540/AB20	490/532	124.8	134.7	134.7	141.4	141.4	148.1	148.1	148.1	154.8	154.8	154.8	154
C-max 30, 60 W		MD	470	90.6	100.5	100.5	107.2	107.2	113.9	113.9	113.9	120.6	120.6	120.6	120
C-max 30, 60 W		MR	478	102.8	112.7	112.7	119.4	119.4	126.1	126.1	126.1	132.8	132.8	132.8	132
C-max 30, 60 W		HEDL 5540	490	111.2	121.1	121.1	127.8	127.8	134.5	134.5	134.5	141.2	141.2	141.2	141
C-max 30, 60 W		AB 20	532	126.2	136.1	136.1	142.8	142.8	149.5	149.5	149.5	156.2	156.2	156.2	156
C-max 30, 60 W		HEDL 5540/AB20	490/532	146.8	156.7	156.7	163.4	163.4	170.1	170.1	170.1	176.8	176.8	176.8	176
C 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.
C 32 flat, IE, IP 00				54.6	64.5	64.5	71.2	71.2	77.9	77.9	77.9	84.6	84.6	84.6	84.
C 32 flat, IE, IP 40				56.3	66.2	66.2	72.9	72.9	79.6	79.6	79.6	86.3	86.3	86.3	86.
C 45 flat, 30 W, A				43.1	53.0	53.0	59.7	59.7	66.4	66.4	66.4	73.1	73.1	73.1	73.
C 45 flat, 30 W, cable				44.4	54.3	54.3	61.0	61.0	67.7	67.7	67.7	74.4	74.4	74.4	74.
C 45 flat, 30 W, A		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.
C 45 flat, 50 W, A				48.6	58.5	58.5	65.2	65.2	71.9	71.9	71.9	78.6	78.6	78.6	78.
C 45 flat, 50 W, A		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.
C 45 flat, 60 W, A				48.6	58.5	58.5	65.2	65.2	71.9	71.9	71.9	78.6	78.6	78.6	78.
C 45 flat, 60 W, A		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.
C 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.
C 45 flat, 90 W, A		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.
C 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.
C 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.
C 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.
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.
C 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.
C 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.
C 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.
C 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.
C 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.
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.

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