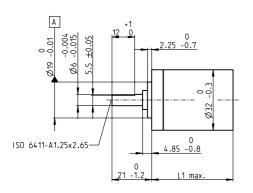
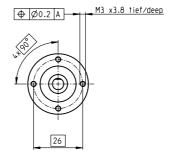
Planetary Gearhead GP 32 A Ø32 mm, 0.75-4.5 Nm



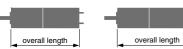


Technical Data Planetary Gearhead Output shaft Shaft diameter as option straight teeth stainless steel 8 mm ball bearing Bearing at output Radial play, 5 mm from flange max. 0.14 mm Axial play
Max. axial load (dynamic)
Max. force for press fits
Direction of rotation, drive to output max. 0.4 mm 120 N 120 N Max. continuous input speed 6000 rpm -40...+100°C 4 5 Recommended temperature range Number of stages Max. radial load, 10 mm from flange 90 N 140 N 200 N 220 N 220 N

M 1:2

Option: Low-noise versio

	Stock program		Part N	umbers										
	Standard program													
	Special program (on request)		166155	166158	166163	166164	166169	166174	166179	166184	166187	166192	166197	166202
Ge	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	3052:1	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	2623:1	4060:1	
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	o	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		nm	26.5	36.4	36.4	43.1	43.1	49.8	49.8	49.8	56.5	56.5	56.5	56.5

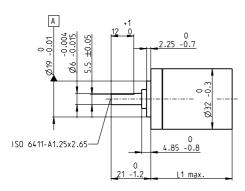


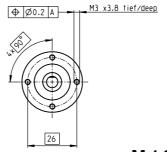


maxon Modu	ılar Syste	m													
+ Motor	Page	+ Sensor/Brake	Page	Overall I	ength [m	m] = Moto	r length + g	gearhead le	ength + (ser	nsor/brake)	+ assembly	y parts			
RE 25	125/127			81.1	91.0	91.0	97.7	97.7	104.4	104.4	104.4	111.1	111.1	111.1	111.1
RE 25	125/127	MR	404	92.1	102.0	102.0	108.7	108.7	115.4	115.4	115.4	122.1	122.1	122.1	122.1
RE 25	125/127	Enc 22	411	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	125/127	HED_ 5540	413/415	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	125/127	DCT 22	421	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	126			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	126	MR	404	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	126	HED_ 5540	414/417	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	126	DCT22	421	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	126	AB 28	458	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	126	HED_ 5540/AB 28	414/458	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	127	AB 28	458	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	127	HED_ 5540/AB 28	413/458	132.4	142.3	142.3	149.0	149.0	155.7	155.7	155.7	162.4	162.4	162.4	162.4
A-max 26	151-158			71.3	81.2	81.2	87.9	87.9	94.6	94.6	94.6	101.3	101.3	101.3	101.3
A-max 26	152-158	MEnc 13	394	78.4	88.3	88.3	95.0	95.0	101.7	101.7	101.7	108.4	108.4	108.4	108.4
A-max 26	152-158	MR	404	80.1	90.0	90.0	96.7	96.7	103.4	103.4	103.4	110.1	110.1	110.1	110.1
A-max 26	152-158	Enc 22	411	85.7	95.6	95.6	102.3	102.3	109.0	109.0	109.0	115.7	115.7	115.7	115.7
A-max 26	152-158	HED_ 5540	414/416	89.7	99.6	99.6	106.3	106.3	113.0	113.0	113.0	119.7	119.7	119.7	119.7

May 2017 edition / subject to change maxon gear 335

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



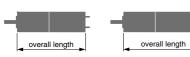


Technical Data					
Planetary Gearhead				straight	teeth
Output shaft			S	tainless	steel
Shaft diameter as	option	1			8 mm
Bearing at output				ball be	aring
Radial play, 5 mm fro	om flar	nge	r	nax. 0.1	4 mm
Axial play				max. 0.4	4 mm
Max. axial load (dyn	amic)				120 N
Max. force for press	fits				120 N
Direction of rotation	drive	to outp	ut		=
Max. continuous inp	ut spe	ed ·		6000	rpm C
Recommended temp	oeratu	re range	е	-40+1	00°C
Number of stages	1	ž	3	4	5
Max. radial load, 10	mm				
from flange	90 N	140 N	200 N	220 N 2	220 N

M 1:2

Option: Low-noise version

	Stock program Standard program		Part N	umbers	;									
	Special program (on request)		166155	166158	166163	166164	166169	166174	166179	166184	166187	166192	166197	166202
Ge	arhead Data		100100	100100	100100	100101	100100		100110	100101	100107	100102	100101	TOOLOL
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	3052:1	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	38976/1225	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	2623:1	4060:1	
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	8.0	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* *for EC 32 flat L1 is + 2.0 mm	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 Modula	r Syste	m													
+ Motor	Page	+ Sensor/Brake	Page	Overall I	ength [m	m] = Moto	r length + o	gearhead le	ngth + (ser	nsor/brake)	+ assembl	y parts			
RE 30, 15 W	128			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	128	MR	405	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	128	HED_ 5540	413/415	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	129			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	129	MR	405	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	129	HED_ 5540	413/415	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	130			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	130	MR	405	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	130	HED_ 5540	413/415	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	130	DCT 22	421	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	130	AB 28	458	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	130	HEDS 5540/AB 28	413/458	150.9	160.8	160.8	167.5	167.5	174.2	174.2	174.2	180.9	180.9	180.9	180.9
A-max 32	159/161			89.5	99.4	99.4	106.1	106.1	112.8	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	111.4	118.1	118.1	118.1	118.1
A-max 32	160/162	MR	405	99.3	109.2	109.2	115.9	115.9	122.6	122.6	122.6	129.3	129.3	129.3	129.3
A-max 32	160/162	HED_ 5540	414/416	108.9	118.8	118.8	125.5	125.5	132.2	132.2	132.2	138.9	138.9	138.9	138.9
EC 32, 80 W	218			86.6	96.5	96.5	103.2	103.2	109.9	109.9	109.9	116.6	116.6	116.6	116.6
EC 32, 80 W	218	HED_ 5540	414/417	105.0	114.9	114.9	121.6	121.6	128.3	128.3	128.3	135.0	135.0	135.0	135.0
EC 32, 80 W	218	Res 26	422	106.7	116.6	116.6	123.3	123.3	130.0	130.0	130.0	136.7	136.7	136.7	136.7
EC 32 flat, 15 W	262			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	263			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	263			56.3	66.2	66.2	72.9	72.9	79.6	79.6	79.6	86.3	86.3	86.3	86.3