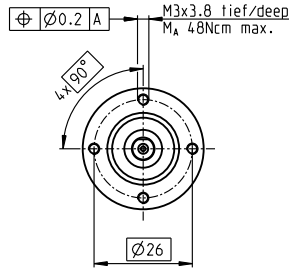
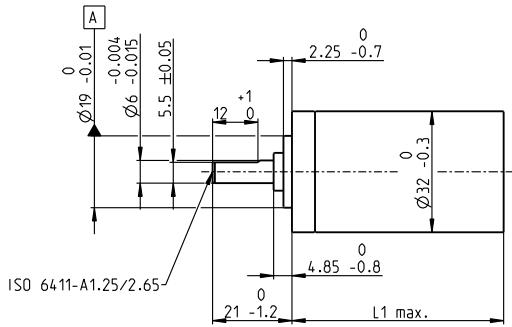


Planetary Gearhead GP 32 A Ø32 mm, 0.75–4.5 Nm



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	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 220 N 220 N

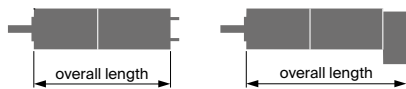
Option: Low-noise version

gear

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

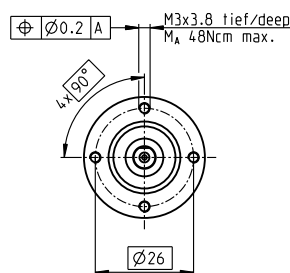
Part numbers

Gearhead data	166155	166158	166163	166164	166169	166174	166179	166184	166187	166192	166197	166202
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	28/7	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	536408/245	1907712/625	839523/60	
3 Max. motor shaft diameter	mm 4	4	4	3	3	4	3	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	2066688/675	474513/140	6438343/1024	
3 Max. motor shaft diameter	mm 3	3	3	3	4	3	3	3	4	3	3	3
Part numbers	166161	166167	166172	166177	166182	166187	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	20662624/3125	457056/125				
3 Max. motor shaft diameter	mm 4	4	3	4	3	3	3	4	3			
Part numbers	166162	166168	166173	166178	166183	166188	166191	166196	166201			
1 Reduction	28:1	103:1	190:1	456:1	706:1	1828:1	2623:1	4060:1				
2 Absolute reduction	139/5	3589/35	12167/64	89401/196	158171/224	2238912/1225	2056223/84	3637933/696				
3 Max. motor shaft diameter	mm 3	3	3	3	3	3	3	3				
4 Number of stages	1	2	3	3	4	4	4	5	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	° 0.7	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



Modular system												
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts								
RE 25	156/158			81.1	91.0	91.0	97.7	97.7	104.4	104.4	111.1	111.1
RE 25	156/158	ENX 25 IMR	505	92.1	102.0	102.0	108.7	108.7	115.4	115.4	122.1	122.1
RE 25	156/158	HED_5540	535/537	101.9	111.8	111.8	118.5	118.5	125.2	125.2	131.9	131.9
RE 25	156/158	DCT 22	542	103.4	113.3	113.3	120.0	120.0	126.7	126.7	133.4	133.4
RE 25, 20 W	157			69.6	79.5	79.5	86.2	86.2	92.9	92.9	99.6	99.6
RE 25, 20 W	157	ENX 25 IMR	505	80.6	90.5	90.5	97.2	97.2	103.9	103.9	110.6	110.6
RE 25, 20 W	157	HED_5540	536	90.4	100.3	100.3	107.0	107.0	113.7	113.7	120.4	120.4
RE 25, 20 W	157	DCT 22	542	91.9	101.8	101.8	108.5	108.5	115.2	115.2	121.9	121.9
RE 25, 20 W	157	AB 28	587	103.7	113.6	113.6	120.3	120.3	127.0	127.0	133.7	133.7
RE 25, 20 W	157	HED_5540/AB 28	536/587	120.9	130.8	130.8	137.5	137.5	144.2	144.2	150.9	150.9
RE 25, 20 W	158	AB 28	587	115.2	125.1	125.1	131.8	131.8	138.5	138.5	145.2	145.2
RE 25, 20 W	158	HED_5540/AB 28	536/587	132.4	142.3	142.3	149.0	149.0	155.7	155.7	162.4	162.4
RE 30, 15 W	159			94.6	104.5	104.5	111.2	111.2	117.9	117.9	124.6	124.6
RE 30, 15 W	159	ENX 32 IMR	506	106.0	115.9	115.9	122.6	122.6	129.3	129.3	136.0	136.0
RE 30, 15 W	159	HED_5540	535/537	115.4	125.3	125.3	132.0	132.0	138.7	138.7	145.4	145.4
RE 30, 60 W	160			94.6	104.5	104.5	111.2	111.2	117.9	117.9	124.6	124.6
RE 30, 60 W	160	ENX 32 IMR	506	106.0	115.9	115.9	122.6	122.6	129.3	129.3	136.0	136.0
RE 30, 60 W	160	HED_5540	535/537	115.4	125.3	125.3	132.0	132.0	138.7	138.7	145.4	145.4
RE 35, 90 W	161			97.6	107.5	107.5	114.2	114.2	120.9	120.9	127.6	127.6
RE 35, 90 W	161	ENX 32 IMR	506	109.0	118.9	118.9	125.6	125.6	132.3	132.3	139.0	139.0
RE 35, 90 W	161	HED_5540	535/537	118.3	128.2	128.2	134.9	134.9	141.6	141.6	148.3	148.3
RE 35, 90 W	161	DCT 22	542	115.7	125.6	125.6	132.3	132.3	139.0	139.0	145.7	145.7
RE 35, 90 W	161	AB 28	587	133.7	143.6	143.6	150.3	150.3	157.0	157.0	163.7	163.7
RE 35, 90 W	161	HED_5540/AB 28	536/587	150.9	160.8	160.8	167.5	167.5	174.2	174.2	180.9	180.9

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	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	220 N	220 N	

Option: Low-noise version

Part numbers

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 length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts											
A-max 26	183-186			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	184/186	ENX 13 GAMA	498	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	184/186	ENX 25 IMR	505	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	184/186	HED_5540	536/538	89.7	99.6	99.6	106.3	106.3	113.0	113.0	113.0	119.7	119.7	119.7	119.7
A-max 32	187			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	188			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	188	ENX 32 IMR	506	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	188	HED_5540	536/538	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	271	Res 26	543	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-max 30, 40 W	284			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-max 30, 40 W	283	16 EASY/XT/Abs.	509-511	79.7	89.6	89.6	96.3	96.3	103.0	103.0	103.0	109.7	109.7	109.7	109.7
EC-max 30, 40 W	283	16 EASY Abs. XT	512	80.2	90.1	90.1	96.8	96.8	103.5	103.5	103.5	110.2	110.2	110.2	110.2
EC-max 30, 40 W	284	HEDL 5540	539	89.2	99.1	99.1	105.8	105.8	112.5	112.5	112.5	119.2	119.2	119.2	119.2
EC-max 30, 40 W	284	AB 20	584	104.2	114.1	114.1	120.8	120.8	127.5	127.5	127.5	134.2	134.2	134.2	134.2
EC-max 30, 40 W	284	HEDL 5540/AB20	539/584	124.8	134.7	134.7	141.4	141.4	148.1	148.1	148.1	154.8	154.8	154.8	154.8
EC-max 30, 60 W	285			90.6	100.5	100.5	107.2	107.2	113.9	113.9	113.9	120.6	120.6	120.6	120.6
EC-max 30, 60 W	285	16 EASY/XT/Abs.	509-511	101.7	111.6	111.6	118.3	118.3	125.0	125.0	125.0	131.7	131.7	131.7	131.7
EC-max 30, 60 W	285	16 EASY Abs. XT	512	102.2	112.1	112.1	118.8	118.8	125.5	125.5	125.5	132.2	132.2	132.2	132.2
EC-max 30, 60 W	285	HEDL 5540	539	116.2	121.1	121.1	127.8	127.8	134.5	134.5	134.5	141.2	141.2	141.2	141.2
EC-max 30, 60 W	285	AB 20	584	126.2	136.1	136.1	142.8	142.8	149.5	149.5	149.5	156.2	156.2	156.2	156.2
EC-max 30, 60 W	285	HEDL 5540/AB20	539/584	146.8	156.7	156.7	163.4	163.4	170.1	170.1	170.1	176.8	176.8	176.8	176.8