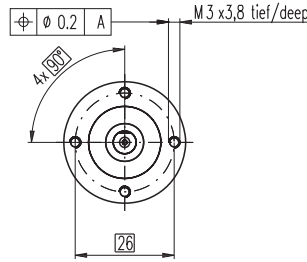
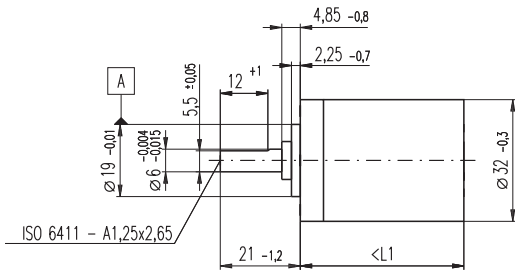


# Planetary Gearhead GP 32 A $\varnothing 32$ mm, 0.75 - 4.5 Nm



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. radial load, 10 mm from flange	140 N
Max. permissible axial load	120 N
Max. permissible force for press fits	120 N
Sense of rotation, drive to output	=
Recommended input speed	< 6000 rpm
Recommended temperature range	-20 ... +100°C
Extended area as option	-35 ... +100°C

Option: Low-noise version

	Order Number											
	166155	166158	166163	166164	166169	166174	166179	166184	166187	166192	166197	166202
<b>Stock program</b>												
<b>Standard program</b>												
<b>Special program (on request)</b>												
<b>Gearhead Data</b>												
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 Reduction absolute	26/7	676/49	529/16	17576/343	13824/125	421824/1715	86112/175	19044/25	1012376/6575	8626176/4375	495144/175	109503/25
3 Max. motor shaft diameter	mm	6	6	3	6	4	4	3	3	4	4	3
<b>Order Number</b>	<b>166156</b>	<b>166159</b>		<b>166165</b>	<b>166170</b>	<b>166175</b>	<b>166180</b>	<b>166185</b>	<b>166188</b>	<b>166193</b>	<b>166198</b>	<b>166203</b>
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 Reduction absolute	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
<b>Order Number</b>	<b>166157</b>	<b>166160</b>		<b>166166</b>	<b>166171</b>	<b>166176</b>	<b>166181</b>	<b>166186</b>	<b>166189</b>	<b>166194</b>	<b>166199</b>	<b>166204</b>
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 Reduction absolute	23/4	299/14		3887/49	3312/25	389376/1225	20631/35	279841/256	9345024/6125	2066688/375	474513/140	6436343/1024
3 Max. motor shaft diameter	mm	3	3	3	3	4	3	3	4	3	3	3
<b>Order Number</b>		<b>166161</b>		<b>166167</b>	<b>166172</b>	<b>166177</b>	<b>166182</b>		<b>166190</b>	<b>166195</b>	<b>166200</b>	
1 Reduction		23 : 1		86 : 1	159 : 1	411 : 1	636 : 1		1694 : 1	2548 : 1	3656 : 1	
2 Reduction absolute		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	
<b>Order Number</b>		<b>166162</b>		<b>166168</b>	<b>166173</b>	<b>166178</b>	<b>166183</b>		<b>166191</b>	<b>166196</b>	<b>166201</b>	
1 Reduction		28 : 1		103 : 1	190 : 1	456 : 1	706 : 1		1828 : 1	2623 : 1	4060 : 1	
2 Reduction absolute		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 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
6 Intermittently permissible 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
7 Max. efficiency	%	80	75	75	70	70	60	60	60	50	50	50
8 Weight	g	118	162	162	194	194	226	226	226	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 <sup>2</sup>	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	26.4	36.3	36.3	43.0	43.0	49.7	49.7	49.7	56.4	56.4	56.4



maxon Modular System															
+ Motor	Page	+ Sensor / Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts											
RE 25	77/79			81.0	90.9	90.9	97.6	97.6	104.3	104.3	104.3	111.0	111.0	111.0	111.0
RE 25	77/79	MR	264	92.0	101.9	101.9	108.6	108.6	115.3	115.3	115.3	122.0	122.0	122.0	122.0
RE 25	77/79	Enc 22	266	95.1	105.0	105.0	111.7	111.7	118.4	118.4	118.4	125.1	125.1	125.1	125.1
RE 25	77/79	HED_ 5540	268/270	101.8	111.7	111.7	118.4	118.4	125.1	125.1	125.1	131.8	131.8	131.8	131.8
RE 25	77/79	DCT 22	277	103.3	113.2	113.2	119.9	119.9	126.6	126.6	126.6	133.3	133.3	133.3	133.3
RE 25, 20 W	78			69.5	79.4	79.4	86.1	86.1	92.8	92.8	92.8	99.5	99.5	99.5	99.5
RE 25, 20 W	78	MR	264	80.5	90.4	90.4	97.1	97.1	103.8	103.8	103.8	110.5	110.5	110.5	110.5
RE 25, 20 W	78	HED_ 5540	269/272	90.3	100.2	100.2	106.9	106.9	113.6	113.6	113.6	120.3	120.3	120.3	120.3
RE 25, 20 W	78	DCT22	277	91.8	101.7	101.7	108.4	108.4	115.1	115.1	115.1	121.8	121.8	121.8	121.8
RE 25, 20 W	78	AB 28	316	103.6	113.5	113.5	120.2	120.2	126.9	126.9	126.9	133.6	133.6	133.6	133.6
RE 25, 20 W	78	HED_ 5540 / AB 28	269/316	120.8	130.7	130.7	137.4	137.4	144.1	144.1	144.1	150.8	150.8	150.8	150.8
RE 25, 20 W	79	AB 28	316	115.1	125.0	125.0	131.7	131.7	138.4	138.4	138.4	145.1	145.1	145.1	145.1
RE 25, 20 W	79	HED_ 5540/AB 28	268/316	132.2	142.1	142.1	148.8	148.8	155.5	155.5	155.5	162.2	162.2	162.2	162.2
A-max 26	105-112			71.2	81.1	81.1	87.8	87.8	94.5	94.5	94.5	101.2	101.2	101.2	101.2
A-max 26	106-112	MEnc 13	276	78.3	88.2	88.2	94.9	94.9	101.6	101.6	101.6	108.3	108.3	108.3	108.3
A-max 26	106-112	MR	264	80.0	89.9	89.9	96.6	96.6	103.3	103.3	103.3	110.0	110.0	110.0	110.0
A-max 26	106-112	Enc 22	267	85.6	95.5	95.5	102.2	102.2	108.9	108.9	108.9	115.6	115.6	115.6	115.6
A-max 26	106-112	HED_ 5540	269/271	90.0	99.9	99.9	106.6	106.6	113.3	113.3	113.3	120.0	120.0	120.0	120.0
RE-max 29	135-138			71.2	81.1	81.1	87.8	87.8	94.5	94.5	94.5	101.2	101.2	101.2	101.2
RE-max 29	136/138	MR	264	80.0	89.9	89.9	96.6	96.6	103.3	103.3	103.3	110.0	110.0	110.0	110.0