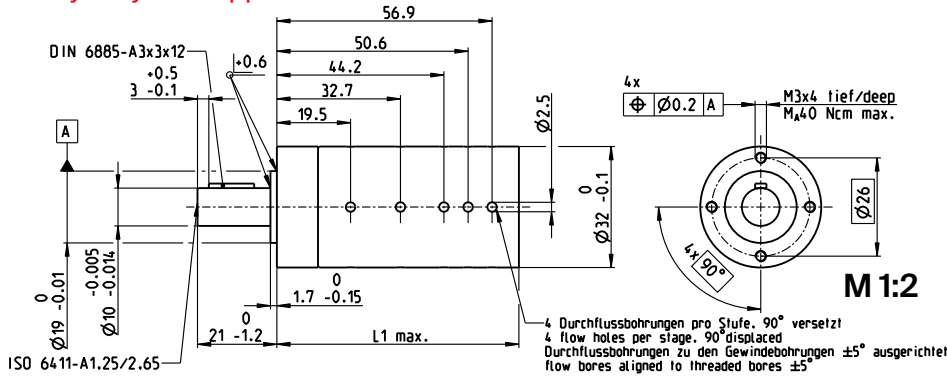


Planetary Gearhead GP 32 HD $\varnothing 32$ mm, 3.0–8.0 Nm

Heavy Duty – for application in oil



Technical Data	
Planetary Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	ball bearing
Radial play, 10 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	-55...+200°C
Extended range as option	-55...+260°C
Number of stages	1 2 3 4 5
Max. radial load, 10 mm from flange	120 N 200 N 250 N 300 N 300 N

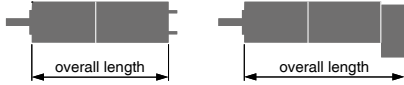
gear

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

Part Numbers

Gearhead Data (provisional)	526077	526080	526086	526092	526095	526101	526106	526112	526117	526123
1 Reduction	3.7:1	14:1	51:1	123:1	190:1	492:1	707:1	1694:1	2548:1	4060:1
2 Absolute reduction	$\frac{29}{7}$	$\frac{676}{49}$	$\frac{17576}{343}$	$\frac{6877}{56}$	$\frac{456976}{2401}$	$\frac{8612}{175}$	$\frac{11881376}{16807}$	$\frac{1162213}{686}$	$\frac{7962624}{3125}$	$\frac{3637933}{896}$
3 Max. motor shaft diameter	mm 6	6	6	3	6	6	6	6	4	6
Part Numbers	526078	526081	526087	526093	526096	526102	526107	526113	526118	526124
1 Reduction	4.8:1	18:1	66:1	132:1	246:1	531:1	914:1	1828:1	2623:1	4380:1
2 Absolute reduction	$\frac{24}{5}$	$\frac{624}{35}$	$\frac{16224}{245}$	$\frac{3312}{25}$	$\frac{421824}{1715}$	$\frac{331776}{625}$	$\frac{10967424}{12005}$	$\frac{2238912}{1225}$	$\frac{2056223}{784}$	$\frac{109503}{25}$
3 Max. motor shaft diameter	mm 4	6	6	4	6	4	6	6	6	4
Part Numbers	526079*	526082	526088	526094*	526097	526103	526108	526114	526119	526125
1 Reduction	5.8:1	21:1	79:1	159:1	295:1	589:1	1094:1	1972:1	2829:1	5247:1
2 Absolute reduction	$\frac{23}{4}$	$\frac{294}{14}$	$\frac{3887}{49}$	$\frac{1587}{10}$	$\frac{101062}{343}$	$\frac{20631}{35}$	$\frac{2627612}{2401}$	$\frac{8626176}{4375}$	$\frac{495144}{175}$	$\frac{839523}{160}$
3 Max. motor shaft diameter	mm 3	6	6	3	6	6	6	4	6	4
Part Numbers		526083	526089		526098	526104	526109	526115	526120	526126*
1 Reduction		23:1	86:1		318:1	636:1	1181:1	2189:1	3052:1	6285:1
2 Absolute reduction		$\frac{576}{25}$	$\frac{14976}{175}$		$\frac{389376}{1225}$	$\frac{79488}{125}$	$\frac{10123776}{8575}$	$\frac{536406}{245}$	$\frac{1907712}{625}$	$\frac{6436343}{1024}$
3 Max. motor shaft diameter	mm	4	6		6	4	6	6	4	3
Part Numbers		526084	526090		526099	526105	526110	526116	526121	
1 Reduction		28:1	103:1		411:1	762:1	1414:1	2362:1	3389:1	
2 Absolute reduction		$\frac{138}{5}$	$\frac{3588}{35}$		$\frac{359424}{875}$	$\frac{19044}{25}$	$\frac{2425488}{1715}$	$\frac{2066688}{875}$	$\frac{474513}{140}$	
3 Max. motor shaft diameter	mm	4	6		6	4	6	6	6	
Part Numbers		526085*	526091		526100		526111		526122	
1 Reduction		33:1	111:1		456:1		1526:1		3656:1	
2 Absolute reduction		$\frac{529}{16}$	$\frac{13824}{125}$		$\frac{89407}{196}$		$\frac{9345024}{6125}$		$\frac{467056}{125}$	
3 Max. motor shaft diameter	mm	3	4		6		4		4	
4 Number of stages		1	2	3	4	4	5	5	5	5
5 Max. continuous torque	Nm	3	4	8	8	8	8	8	8	8
6 Max. intermittent torque at gear output	Nm	4.5	6	12	12	12	12	12	12	12
15 Max. overload torque ¹⁾	Nm	9	12	24	24	24	24	24	24	24
7 Max. efficiency	%	95	87	78	78	65	65	53	53	53
8 Weight	g	176	234	277	277	309	309	340	340	340
9 Average backlash no load	°	0.7	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10 Mass inertia	gcm ²	1.59	1.59	1.45	1.45	1.45	1.45	1.45	1.45	1.45
11 Gearhead length L1	mm	32.9	45.3	55.1	55.1	61.6	61.6	68.1	68.1	68.1
13 Max. transmittable power (continuous)	W	320	200	80	80	40	40	12	12	12
14 Max. transmittable power (intermittent)	W	480	300	120	120	60	60	18	18	18

¹⁾ Reduced expected life span



maxon Modular System											
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts							
EC-4pole 32 HD oil, A	253			194.0	206.5	216.5	216.5	223.0	229.5	229.5	229.5
EC-4pole 32 HD oil, B	253			174.0	186.5	196.5	196.5	203.0	209.5	209.5	209.5

*Overall length + 2 mm

Application	Important Notice
<p>General</p> <ul style="list-style-type: none"> - extreme temperature applications - vibration tested according to MIL-STD810F/Jan2000 Fig. 514.5C-10 - operation in oil and high pressure <p>Oil & Gas Industry</p> <ul style="list-style-type: none"> - oil, gas and geothermal wells 	<p>This gearhead has been designed for applications in oil and is only equipped with minimum lubrication. Therefore it is not permitted to use it under normal air conditions.</p>