

# Planetary Gearheads

## 7 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors  
Motion Control Systems

### Series 32/3

	32/3
Housing material	metal
Geartrain material <sup>1)</sup>	plastic/steel
Recommended max. input speed for:	
– continuous operation	4 000 min <sup>-1</sup>
Backlash, at no-load	≤ 1 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (10 mm from mounting face)	≤ 200 N
– axial	≤ 200 N
Shaft press fit force, max.	≤ 250 N
Shaft play	
– radial (10 mm from mounting face)	≤ 0,03 mm
– axial	≤ 0,15 mm
Operating temperature range	- 20 ... + 125 °C

Technical data		1	2	3	3	4	4	4	5	5
Number of gear stages										
Continuous torque	Nm	4,2	0,4	1,4	2	4	4,9	5,8	7	7
Intermittent torque	Nm	5,3	0,6	1,9	2,6	5,2	6,5	8	10	10
Mass without motor, ca.	g	160	190	230	230	260	260	260	290	300
Efficiency, max.	%	88	80	70	70	60	60	60	55	55
Direction of rotation, drive to output		=	=	=	=	=	=	=	=	=
Reduction ratio <sup>2)</sup> (rounded)		3,71:1	14:1	43:1	66:1	134:1	159:1	246:1	415:1 592:1 989:1	1 526:1
L2 [mm] = length without motor		33,9	41,6	49,4	49,4	57,2	57,2	57,2	65,0	65,0
L1 [mm] = length with motor										
	2668W...CR	101,9	109,6	117,4	117,4	125,2	125,2	125,2	133,0	133,0
	3242G...CR	75,9	83,6	91,4	91,4	99,2	99,2	99,2	107,0	107,0
	3257G...CR	90,9	98,6	106,4	106,4	114,2	114,2	114,2	122,0	122,0
	3272G...CR	105,9	113,6	121,4	121,4	129,2	129,2	129,2	137,0	137,0
	3242G...BX4	78,1	85,8	93,6	93,6	101,4	101,4	101,4	109,2	109,2
	3268G...BX4	104,1	111,8	119,6	119,6	127,4	127,4	127,4	135,2	135,2
	3274G...BP4	107,9	115,6	123,4	123,4	131,2	131,2	131,2	139,0	139,0
	3564K...B	97,9	105,6	113,4	113,4	121,2	121,2	121,2	129,0	129,0

<sup>1)</sup> Gearheads with ratios < 14:1 have all steel gears.

<sup>2)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

