

# Planetary Gearheads

## 7 Nm

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

### Series 32/3R

	32/3R
Housing material	metal
Geartrain material	steel
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	- 10 ... + 125 °C

### Specifications

		1	2	2	3	3	3	4	5	5
Number of gear stages		1	2	2	3	3	3	4	5	5
Continuous torque <sup>1)</sup>	Nm	1	1,6	3	3,5	4	5	7	7	7
Intermittent torque	Nm	1,2	1,9	3,6	4,2	4,8	6	9,5	9,5	9,5
Max. continuous input speed <sup>1)</sup>	min <sup>-1</sup>	6 000	7 000	7 000	8 000	8 000	8 000	8 000	8 000	8 000
Max. intermittent input speed	min <sup>-1</sup>	7 000	8 000	8 000	9 000	9 000	9 000	9 000	9 000	9 000
Mass without motor, ca.	g	160	195	195	230	230	230	265	300	300
Efficiency, max.	%	91	83	83	75	75	75	69	62	62
Direction of rotation, drive to output		=	=	=	=	=	=	=	=	=
Reduction ratio <sup>2)</sup> (rounded)		3,71:1	14:1	23:1	43:1	66:1	86:1	134:1 159:1 246:1	415:1 592:1 989:1	1 526:1
L2 [mm] = length without motor		33,9	41,6	41,6	49,4	49,4	49,4	57,2	65,0	65,0
L1 [mm] = length with motor		101,9	109,6	109,6	117,4	117,4	117,4	125,2	133,0	133,0
	2668W...CR									
	3242G...CR	75,9	83,6	83,6	91,4	91,4	91,4	99,2	107,0	107,0
	3257G...CR	90,9	98,6	98,6	106,4	106,4	106,4	114,2	122,0	122,0
	3272G...CR	105,9	113,6	113,6	121,4	121,4	121,4	129,2	137,0	137,0
	2264W...BP4	97,9	105,6	105,6	113,4	113,4	113,4	121,2	129,0	129,0
	3242G...BX4	78,1	85,8	85,8	93,6	93,6	93,6	101,4	109,2	109,2
	3268G...BX4	104,1	111,8	111,8	119,6	119,6	119,6	127,4	135,2	135,2
	3274G...BP4	107,9	115,6	115,6	123,4	123,4	123,4	131,2	139,0	139,0
	3564K...B	97,9	105,6	105,6	113,4	113,4	113,4	121,2	129,0	129,0
	3216W...BXT H	50,7	58,4	58,4	66,2	66,2	66,2	74,0	81,8	81,8
	3216W...BXT R	49,9	57,6	57,6	65,4	65,4	65,4	73,2	81,0	81,0

<sup>1)</sup> Max. continuous input speed and continuous output torque are both dependent on the reduction ratio and related to the max. output power. They cannot simultaneously be applied at their maximum values for an extended period. For more information, please contact your local sales representative.

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

