

Planetary Gearheads

10 Nm

For combination with
DC-Micromotors
Brushless DC-Motors

Series 38/1

	38/1
Housing material	metal
Geartrain material ¹⁾	plastic/steel
Recommended max. input speed for:	
– continuous operation	4 000 min ⁻¹
Backlash, at no-load	≤ 1 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (10 mm from mounting face)	≤ 300 N
– axial	≤ 300 N
Shaft press fit force, max.	≤ 350 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
Number of gear stages									
Continuous torque	Nm	6	0,4	1,4	2,2	4,5	5,3	8,2	10
Intermittent torque	Nm	8	0,6	1,9	2,9	6	7	11	15
Mass without motor, ca.	g	166	215	268	268	320	320	320	375
Efficiency, max.	%	88	80	70	70	60	60	60	55
Direction of rotation, drive to output		=	=	=	=	=	=	=	=
Reduction ratio ²⁾ (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 ³⁾		32,3	40,1	47,9	47,9	55,7	55,7	55,7	63,5
L1 [mm] = length with motor		73,5	81,3	89,1	89,1	96,9	96,9	96,9	104,7
		3257G...CR	88,5	96,3	104,1	104,1	111,9	111,9	119,7
		3272G...CR	103,5	111,3	119,1	119,1	126,9	126,9	134,7
		3863A...CR	91,3	99,1	106,9	106,9	114,7	114,7	122,5
		3890A...CR	117,3	125,1	132,9	132,9	140,7	140,7	148,5
		3056K...B	88,3	96,1	103,9	103,9	111,7	111,7	119,5
		3242G...BX4	75,7	83,5	91,3	91,3	99,1	99,1	106,9
		3268G...BX4	101,7	109,5	117,3	117,3	125,1	125,1	132,9
		3274G...BP4	105,5	113,3	121,1	121,1	128,9	128,9	136,7
		3564K...B	96,3	104,1	111,9	111,9	119,7	119,7	127,5
		4221G...BXT	53,5	61,3	69,1	69,1	76,9	76,9	84,7
		4221G...BXTR	52,7	60,5	68,3	68,3	76,1	76,1	83,9

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

²⁾ The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.

³⁾ L2 - 0,8 mm, in combination with 3242G...CR, 3257G...CR, 3272G...CR, 3242G...BX4, 3268G...BX4, 3274G...BP4 and 4221G...BXT R/H.

L2 - 5 mm, in combination with 3863A...CR and 3890A...CR.

