

# Planetary Gearheads

## 10 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors

### Series 38/1 S

	38/1 S
Housing material	metal
Geartrain material	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)	≤ 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						
Number of gear stages		2	3	4	5	
Continuous torque	Nm	10	10	10	10	
Intermittent torque	Nm	15	15	15	15	
Mass without motor, ca.	g	215	268	320	375	
Efficiency, max.	%	80	70	60	55	
Direction of rotation, drive to output		=	=	=	=	
Reduction ratio <sup>1)</sup> (rounded)		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 <sup>2)</sup>		40,1	47,9	55,7	63,5	
L1 [mm] = length with motor		81,3	89,1	96,9	104,7	
		3257G...CR	96,3	104,1	111,9	119,7
		3272G...CR	111,3	119,1	126,9	134,7
		3863A...CR	99,1	106,9	114,7	122,5
		3890A...CR	125,1	132,9	140,7	148,5
		3056K...B	96,1	103,9	111,7	119,5
		3242G...BX4	83,5	91,3	99,1	106,9
		3268G...BX4	109,5	117,3	125,1	132,9
		3274G...BP4	114,1	121,9	129,7	137,5
		3564K...B	104,1	111,9	119,7	127,5

<sup>1)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

<sup>2)</sup> L2 - 0,8 mm, in combination with 3242G...CR, 3257G...CR, 3272G...CR, 3242G...BX4 and 3268G...BX4.

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

**Note:** The gearheads as S-type have all steel gears and heavy duty lubricant for extended lifetime performance.

