

# 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 rpm
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

### Specifications

	2	3	4	5
Number of gear stages				
Continuous torque	Nm 10	10	10	10
Intermittent torque	Nm 15	15	15	15
Weight 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				
3242G...CR	82,1	89,9	97,7	105,5
3257G...CR	97,1	104,9	112,7	120,5
3557K...CS	97,1	104,9	112,7	120,5
3863A...C	99,1	106,9	114,7	122,5
3056K...B	96,1	103,9	111,7	119,5
3242G...BX4	84,3	92,1	99,9	107,7
3268G...BX4	110,3	118,1	125,9	133,7
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 - 5 mm, in combination with 3863A...C.

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

