

# Planetary Gearheads

## 10 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors

### Series 38/2

	38/2
Housing material	metal
Geartrain material	plastic/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

		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
Weight without motor, ca.	g	145	195	245	245	296	296	296	348
Efficiency, max.	%	88	80	70	70	60	60	60	55
Direction of rotation, drive to output		=	=	=	=	=	=	=	=
Reduction ratio <sup>1)</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 <sup>2)</sup>		32,3	40,1	47,9	47,9	55,7	55,7	55,7	63,5
L1 [mm] = length with motor		74,3	82,1	89,9	89,9	97,7	97,7	97,7	105,5
		3257G...CR	89,3	97,1	104,9	104,9	112,7	112,7	112,7
		3557K...CS	89,3	97,1	104,9	104,9	112,7	112,7	112,7
		3863A...C	91,3	99,1	106,9	106,9	114,7	114,7	114,7
		3056K...B	88,3	96,1	103,9	103,9	111,7	111,7	111,7
		3242G...BX4	76,5	84,3	92,1	92,1	99,9	99,9	99,9
		3268G...BX4	102,5	110,3	118,1	118,1	125,9	125,9	125,9
		3564K...B	96,3	104,1	111,9	111,9	119,7	119,7	119,7

<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.

