

# Planetary Gearheads

## 10 Nm

For combination with (overview on page 14-15)  
 DC-Micromotors:  
 3242, 3257, 3557, 3863  
 Brushless DC-Servomotors:  
 3056, 3564

### Series 38/1, 38/2

	38/1 and 38/2
Housing material	metal
Geartrain material	steel <sup>1)</sup>
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 (on bearing output):	
– radial	≤ 0,015 mm
– axial	≤ 0,15 mm
Operating temperature range	– 20 ... + 125 °C

Specifications												
reduction ratio (nominal)	weight without motor <sup>2)</sup> g	length without motor L2 mm	length without motor 3863 L2 mm	length with motor					output torque		direction of rotation (reversible)	efficiency %
				3242 G L1 mm	3056 K L1 mm	3257 G 3557 K L1 mm	3564 K L1 mm	3863 A L1 mm	continuous operation M max. Nm	intermittent operation M max. Nm		
3,71 :1	166	32,3	27,3	74,3	88,3	89,3	96,3	91,3	6,0	8,0	=	88
14 :1	215	40,1	35,1	82,1	86,1	97,1	104,1	99,1	0,4 (10)	0,6 (15)	=	80
43 :1	268	47,9	42,9	89,9	103,9	104,9	111,9	106,9	1,4 (10)	1,9 (15)	=	70
66 :1	268	47,9	42,9	89,9	103,9	104,9	111,9	106,9	2,2 (10)	2,9 (15)	=	70
134 :1	318	55,7	50,7	97,7	111,7	112,7	119,7	114,7	4,5 (10)	6,0 (15)	=	60
159 :1	320	55,7	50,7	97,7	111,7	112,7	119,7	114,7	5,3 (10)	7,0 (15)	=	60
246 :1	320	55,7	50,7	97,7	111,7	112,7	119,7	114,7	8,2 (10)	11 (15)	=	60
415 :1	372	63,5	58,5	105,5	119,5	120,5	127,5	122,5	10 (10)	15 (15)	=	55
592 :1	372	63,5	58,5	105,5	119,5	120,5	127,5	122,5	10 (10)	15 (15)	=	55
989 :1	374	63,5	58,5	105,5	119,5	120,5	127,5	122,5	10 (10)	15 (15)	=	55
1 526 :1	378	63,5	58,5	105,5	119,5	120,5	127,5	122,5	10 (10)	15 (15)	=	55

<sup>1)</sup> Gearheads with ratio ≥ 14:1 have plastic gears in the input stage. For extended life performance, the gearheads are available with all steel gears and heavy duty lubricant as type 38/1 S and 38/2 S.  
 The values for the torque rating indicated in parenthesis, are for gearheads, type 38/1 S and 38/2 S with all steel gears.

<sup>2)</sup> Planetary Gearhead, series 38/1

**Note:** The reduction ratios are rounded, the exact values are available on request.

