

# Planetary Gearheads

## 20 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors

### Series 38A

	38A
Housing material	steel
Geartrain material	steel
Recommended max. input speed for:	
– continuous operation	4 500 rpm
Backlash, at no-load	≤ 0,6 °
Bearings on output shaft	ball bearings
Shaft load, max.:	
– radial (14,5 mm from mounting face)	≤ 200 N
– axial	≤ 200 N
Shaft press fit force, max.	≤ 490 N
Shaft play	
– radial (14,5 mm from mounting face)	≤ 0,02 mm
– axial	≤ 0,3 mm
Operating temperature range	- 25 ... + 90 °C

#### Specifications

		1	2	2	3	3	4	4
Number of gear stages								
Continuous torque	Nm	6	20	18	20	18	20	18
Intermittent torque	Nm	9,6	32	29	32	29	32	29
Weight without motor, ca.	g	190	260	260	330	330	410	410
Efficiency, max.	%	96	94	94	90	90	80	80
Direction of rotation, drive to output		=	=	=	=	=	=	=
Reduction ratio (exact)		4:1 5:1	12:1 16:1 20:1	25:1	36:1 45:1 60:1 80:1 100:1 120:1 160:1	200:1	240:1 360:1 480:1 800:1	1 600:1
L2 [mm] = length without motor		42,2	55,0	55,0	67,6	67,6	80,2	80,2
L1 [mm] = length with motor								
	3242G...CR	78,8	91,6	91,6	104,2	104,2	116,8	116,8
	3257G...CR	93,8	106,6	106,6	119,2	119,2	131,8	131,8
	3557K...CS	99,2	112,0	112,0	124,6	124,6	137,2	137,2
	3863H...C	113,6	126,4	126,4	139,0	139,0	151,6	151,6
	3564K...B	106,2	119,0	119,0	131,6	131,6	144,2	144,2
	4490H...B	139,6	152,4	152,4	165,0	165,0	177,6	177,6
	4490H...BS	139,6	152,4	152,4	165,0	165,0	177,6	177,6

