

# Planetary Gearheads

## 4,5 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors

### Series 30/1 S

	30/1 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 (15 mm from mounting face)	≤ 150 N
– axial	≤ 150 N
Shaft press fit force, max.	≤ 200 N
Shaft play	
– radial (15 mm from mounting face)	≤ 0,03 mm
– axial	≤ 0,15 mm
Operating temperature range	- 30 ... + 100 °C

### Specifications

		2	3	4	5
Number of gear stages					
Continuous torque	Nm	4,5	4,5	4,5	4,5
Intermittent torque	Nm	6	6	6	6
Weight without motor, ca.	g	139	171	203	235
Efficiency, max.	%	80	70	60	55
Direction of rotation, drive to output		=	=	=	=
Reduction ratio <sup>1)</sup> (rounded)		9,7:1 14:1 23:1	43:1 66:1 86:1	134:1 159:1 246:1	415:1 592:1 989:1 1 526:1
L2 [mm] = length without motor <sup>2)</sup>		35,1	43,1	51,2	59,2
L1 [mm] = length with motor					
2342S...CR		77,1	85,1	93,2	101,2
2642W...CR		77,1	85,1	93,2	101,2
2642W...CXR		77,1	85,1	93,2	101,2
2657W...CR		92,1	100,1	108,2	116,2
2657W...CXR		92,1	100,1	108,2	116,2
3557K...CS		93,5	101,5	109,6	117,6
2232S...BSL		67,5	75,5	83,6	91,6
2248S...BSL		83,1	91,1	99,2	107,2
2444S...B		79,1	87,1	95,2	103,2
3056K...B		92,5	100,5	108,6	116,6
3242G...BX4		79,3	87,3	95,4	103,4
3268G...BX4		105,3	113,3	121,4	129,4
3564K...B		100,5	108,5	116,6	124,6

<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 + 1,4 mm, in combination with 3056K...B, 3557K...CS and 3564K...B.

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

