

# 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 min <sup>-1</sup>
Backlash, at no-load	≤ 1 °
Bearings on output shaft	ball bearings
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

#### Technical data

		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
Mass 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/CXR		77,1	85,1	93,2	101,2
2657W...CR/CXR		92,1	100,1	108,2	116,2
2668W...CR		103,1	111,1	119,2	127,2
2444S...B		79,1	87,1	95,2	103,2
3056K...B		92,5	100,5	108,6	116,6
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 and 3564K...B.

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

