

# Planetary Gearheads

## 16 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors

### Series 44/1

	44/1
Housing material	metal
Geartrain material	metal
Recommended max. input speed for:	
– continuous operation	3 500 min <sup>-1</sup>
Backlash, at no-load	≤ 1 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (12 mm from mounting face)	≤ 400 N
– axial	≤ 350 N
Shaft press fit force, max.	≤ 500 N
Shaft play	
– radial (12 mm from mounting face)	≤ 0,03 mm
– axial	= 0 mm
Operating temperature range	- 30 ... + 125 °C

Technical data						
Number of gear stages		1	2	3	4	5
Continuous torque	Nm	16	16	16	16	16
Intermittent torque	Nm	20	20	20	20	20
Mass without motor, ca.	g	480	600	720	840	960
Efficiency, max.	%	90	80	70	65	60
Direction of rotation, drive to output		=	=	=	=	=
Reduction ratio <sup>1)</sup> (rounded)		4,8:1	23:1	111:1	531:1	2 548:1
L2 [mm] = length without motor		62,2	77,8	93,2	108,6	124,0
L1 [mm] = length with motor	3863H...CR	126,2	141,8	157,2	172,6	188,0
	3890H...CR	152,2	167,8	183,2	198,6	214,0
	4490H...B/BS	152,2	167,8	183,2	198,6	214,0

<sup>1)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

