

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 rpm
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

Specifications

	1	2	3	4	5
Number of gear stages					
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 ¹⁾ (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	152,2	167,8	183,2	198,6	214,0
4490H...BS	152,2	167,8	183,2	198,6	214,0

¹⁾ The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.

