

Planetary Gearheads

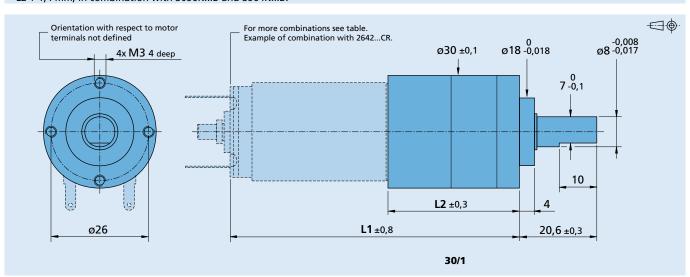
4,5 Nm

For combination with DC-Micromotors **Brushless DC-Motors**

Series 30/1

	30/1
Housing material	metal
Geartrain material 1)	plastic/steel
Recommended max. input speed for:	
- continuous operation	4 000 min ⁻¹
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									
Number of gear stages		1	2	3	3	4	4	5	
Continuous torque	Nm	1,5	0,35	1,2	1,8	3,5	4,5	4,5	
Intermittent torque	Nm	3	0,5	1,6	2,4	4,5	6	6	
Mass without motor, ca.	g	107	139	171	171	203	203	235	
Efficiency, max.	%	88	80	70	70	60	60	55	
Direction of rotation, drive to outpo	ut	=	=	=	=	=	=	=	
Reduction ratio ²⁾		3,71:1	14:1	43:1	66:1	134:1	159:1	415:1	
(rounded)							246:1	592:1	
								989:1	
								1 526:1	
L2 [mm] = length without motor 3)		27,1	35,1	43,1	43,1	51,2	51,2	59,2	
L1 [mm] = length with motor 2342		69,1	77,1	85,1	85,1	93,2	93,2	101,2	
	WCR	69,1	77,1	85,1	85,1	93,2	93,2	101,2	
	WCXR	69,1	77,1	85,1	85,1	93,2	93,2	101,2	
	WCR	84,1	92,1	100,1	100,1	108,2	108,2	116,2	
	WCXR	84,1	92,1	100,1	100,1	108,2	108,2	116,2	
	WCR	95,1	103,1	111,1	111,1	119,2	119,2	127,2	
2444	-	71,1	79,1	87,1	87,1	95,2	95,2	103,2	
3056		84,5	92,5	100,5	100,5	108,6	108,6	116,6	
3564	KB	92,5	100,5	108,5	108,5	116,6	116,6	124,6	



¹⁾ Gearheads with ratios < 14:1 have all steel gears.
²⁾ The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.
³⁾ L2 + 1,4 mm, in combination with 3056K...B and 3564K...B.