Planetary Gearheads

4,5 Nm

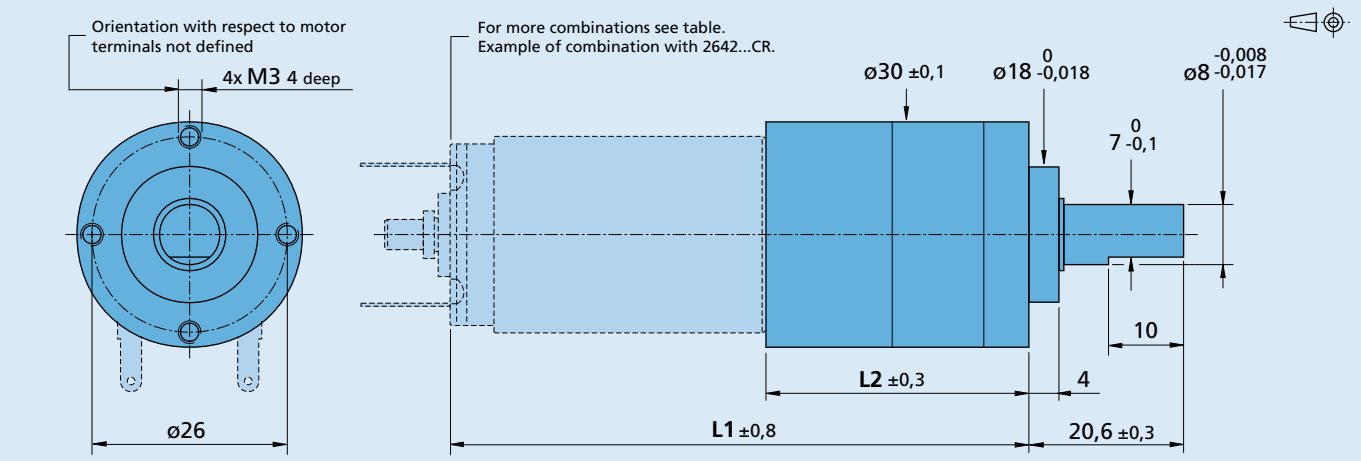
For combination with
DC-Micromotors
Brushless DC-Motors

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 output		=	=	=	=	=	=	=
Reduction ratio [2] (rounded)		**3,71:1**	**14:1**	**43:1**	**66:1**	**134:1**	**159:1** **246:1**	**415:1** **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	2342S...CR	69,1	77,1	85,1	85,1	93,2	93,2	101,2
	2642W...CR/CXR	69,1	77,1	85,1	85,1	93,2	93,2	101,2
	2657W...CR/CXR	84,1	92,1	100,1	100,1	108,2	108,2	116,2
	2668W...CR	95,1	103,1	111,1	111,1	119,2	119,2	127,2
	2444S...B	71,1	79,1	87,1	87,1	95,2	95,2	103,2
	3056K...B	84,5	92,5	100,5	100,5	108,6	108,6	116,6
	3564K...B	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.



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For notes on technical data and lifetime performance refer to "Technical Information".

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