

Planetary Gearheads

0,5 Nm

For combination with
DC-Micromotors
Brushless DC-Motors

Series 20/1

	20/1
Housing material	steel
Geartrain material	metal
Recommended max. input speed for:	
– continuous operation	5 000 rpm
Backlash, at no-load	≤ 1 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (8,5 mm from mounting face)	≤ 75 N
– axial	≤ 20 N
Shaft press fit force, max.	≤ 35 N
Shaft play	
– radial (8,5 mm from mounting face)	≤ 0,04 mm
– axial	= 0 mm
Operating temperature range	- 30 ... + 100 °C

Specifications

	1	2	2	3	3	4	5	
Number of gear stages								
Continuous torque	mNm	500	500	500	500	500	500	
Intermittent torque	mNm	700	700	700	700	700	700	
Weight without motor, ca.	g	28	38	38	48	48	68	
Efficiency, max.	%	88	80	80	70	70	55	
Direction of rotation, drive to output	=	=	=	=	=	=	=	
Reduction ratio ¹⁾ (rounded)		3,71:1	9,7:1 14:1	23:1	43:1 66:1	86:1	112:1 134:1 159:1 190:1 246:1	415:1 592:1 989:1 1 526:1
L2 [mm] = length without motor ²⁾		18,4	23,5	23,5	28,6	28,6	33,7	38,8
L1 [mm] = length with motor								
1727U...C		45,6	50,7	50,7	55,8	55,8	60,9	66,0
1741U...CXR		59,6	64,7	64,7	69,8	69,8	74,9	80,0
2224U...SR		42,6	47,7	47,7	52,8	52,8	57,9	63,0
2230U...S		48,4	53,5	53,5	58,6	58,6	63,7	68,8
2232U...SR		50,6	55,7	55,7	60,8	60,8	65,9	71,0
2233U...S		51,0	56,1	56,1	61,2	61,2	66,3	71,4
2036U...B		54,4	59,5	59,5	64,6	64,6	69,7	74,8
2057S...B		77,3	82,4	87,9	87,5	93,0	92,6	97,7
2232U...BSL		54,5	59,6	59,6	64,7	64,7	69,8	74,9
2248U...BSL		70,1	75,2	75,2	80,3	80,3	85,4	90,5

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

²⁾ L2 + 1,9 mm or 7,4 mm, in combination with 2057S...B.

