

# Planetary Gearheads

## 0,8 Nm

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

### Series 20/1R

	20/1R
Housing material	steel
Geartrain material	metal
Recommended max. input speed for:	
– continuous operation	12 000 min <sup>-1</sup>
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)	≤ 0,03 mm
– axial	= 0 mm
Operating temperature range <sup>1)</sup>	- 10 ... + 125 °C

#### Specifications

		1	2	2	3	3	4	5
Number of gear stages								
Continuous torque	mNm	800	800	800	800	800	800	800
Intermittent torque	mNm	1 100	1 100	1 100	1 100	1 100	1 100	1 100
Mass without motor, ca.	g	29	39	39	49	49	59	69
Efficiency, max.	%	88	80	80	70	70	60	55
Direction of rotation, drive to output		=	=	=	=	=	=	=
Reduction ratio <sup>2)</sup> (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 <sup>3)</sup>		18,4	23,5	23,5	28,6	28,6	33,7	38,8
L1 [mm] = length with motor								
	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
	2232U...SR	50,6	55,7	55,7	60,8	60,8	65,9	71,0
	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
	2057S...BHS	77,3	82,4	87,9	87,5	93,0	92,6	97,7
	AM2224...-10	46,1	51,2	51,2	56,3	56,3	61,4	66,5

<sup>1)</sup> Low operating temperature range - 45 ... + 100 °C shall be ordered as option - K2823

<sup>2)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

<sup>3)</sup> L2 + 1,9 mm or 7,4 mm, in combination with 2057S...B and 2057S...BHS.

