

Planetary Gearheads

0,5 Nm

For combination with (overview on page 14-15)
 DC-Micromotors:
 1727, 2224, 2230, 2232, 2233
 Brushless DC-Servomotors:
 2036, 2057
 DC-Motor-Tacho Combinations:
 2251

Series 20/1

	20/1
Housing material	all steel
Geartrain material	metal
Recommended max. input speed for:	
– continuous operation	5 000 rpm
Backlash, at no-load	≤ 1°
Bearings on output shaft	preloaded ball bearings
Shaft load, max.:	
– radial (8,5 mm from mounting face)	≤ 75 N
– axial	≤ 20 N
Shaft press fit force, max.	≤ 35 N
Shaft play (on bearing output):	
– radial	≤ 0,02 mm
– axial	= 0 mm
Operating temperature range	– 30 ... + 100 °C

Specifications

reduction ratio (nominal)	weight without motor	length without motor L2	length with brushed DC-Micromotor					output torque		direction of rotation (reversible)	efficiency
			1727 U L1	2224 U L1	2230 U L1	2232 U L1	2233 U L1	continuous operation M max. mNm	intermittent operation M max. mNm		
3,71 :1	28	18,4	45,6	42,6	48,4	50,6	51,0	500	700	=	88
9,7 :1	38	23,5	50,7	47,7	53,5	55,7	56,1	500	700	=	80
14 :1	38	23,5	50,7	47,7	53,5	55,7	56,1	500	700	=	80
23 :1	38	23,5	50,7	47,7	53,5	55,7	56,1	500	700	=	80
43 :1	48	28,6	55,8	52,8	58,6	60,8	61,2	500	700	=	70
66 :1	48	28,6	55,8	52,8	58,6	60,8	61,2	500	700	=	70
86 :1	48	28,6	55,8	52,8	58,6	60,8	61,2	500	700	=	70
134 :1	58	33,7	60,9	57,9	63,7	65,9	66,3	500	700	=	60
159 :1	58	33,7	60,9	57,9	63,7	65,9	66,3	500	700	=	60
246 :1	58	33,7	60,9	57,9	63,7	65,9	66,3	500	700	=	60
415 :1	68	38,8	66,0	63,0	68,8	71,0	71,4	500	700	=	55
592 :1	68	38,8	66,0	63,0	68,8	71,0	71,4	500	700	=	55
989 :1	68	38,8	66,0	63,0	68,8	71,0	71,4	500	700	=	55
1 526 :1	68	38,8	66,0	63,0	68,8	71,0	71,4	500	700	=	55

¹⁾ Length L1 with brushless DC-Servomotors:
 2036 U = L2 + 36 mm
 2057 S = L2 + 58,9 mm

Note: The reduction ratios are rounded, the exact values are available on request.

