

Planetary Gearheads

0,7 Nm

For combination with
DC-Micromotors:
2224, 2230, 2232, 2233, 2237, 2342
Brushless DC-Servomotors:
2057, 2232 BSL, 2248 BSL, 2444
Stepper Motors:
AM2224

Series 23/1

	23/1
Housing material	metal
Geartrain material	all steel
Recommended max. input speed for:	
– continuous operation	4 000 rpm
Backlash, at no-load	≤ 1°
Bearings on output shaft	preloaded ball bearings
Shaft load, max.:	
– radial (10 mm from mounting face)	≤ 170 N
– axial	≤ 150 N
Shaft press fit force, max.	≤ 150 N
Shaft play:	
– radial (10 mm from mounting face)	≤ 0,03 mm
– axial	≤ 0,10 mm
Operating temperature range	– 30 ... + 100 °C

Specifications

reduction ratio (nominal)	weight without motor	length without motor L2 mm	length with motor ³⁾						output torque		direction of rotation (reversible)	efficiency
			2224 U	2230 U	2232 U	2233 U	2237 S	2342 S	continuous operation	intermittent operation		
			L1 mm	L1 mm	L1 mm	L1 mm	L1 mm	L1 mm	M max. mNm	M max. mNm		
3,71:1 ¹⁾	60	24,0	48,2	54,0	56,2	56,6	—	—	200	400	=	88
3,71:1	60	27,9	—	—	—	—	64,9	69,9	200	400	=	88
14 :1	70	34,1	54,4	60,2	62,4	62,8	71,1	76,1	300	600	=	80
43 :1	90	40,3	60,6	66,4	68,6	69,0	77,3	82,3	700	1 000	=	70
66 :1	90	40,3	60,6	66,4	68,6	69,0	77,3	82,3	700	1 000	=	70
134 :1	100	46,4	66,7	72,5	74,7	75,1	83,4	88,4	700	1 000	=	60
159 :1	100	46,4	66,7	72,5	74,7	75,1	83,4	88,4	700	1 000	=	60
246 :1	100	46,4	66,7	72,5	74,7	75,1	83,4	88,4	700	1 000	=	60
415 :1	110	52,6	72,9	78,7	80,9	81,3	89,6	94,6	700	1 000	=	55
592 :1	110	52,6	72,9	78,7	80,9	81,3	89,6	94,6	700	1 000	=	55
989 :1	110	52,6	72,9	78,7	80,9	81,3	89,6	94,6	700	1 000	=	55
1 526 :1	110	52,6	72,9	78,7	80,9	81,3	89,6	94,6	700	1 000	=	55

¹⁾ Gearheads with ratio 3,71:1 available for motor types 2224, 2230, 2232 and 2233 are to be order as 23/1 - 3,71:1 - K288

²⁾ Only for reduction ratio ≥ 14:1

³⁾ Length L1 with motor:

2057 S ... B = L2 + 57 mm

AM2224 = L2 + 27,6 mm

2232 S ... BSL = L2 + 32,4 mm

2248 S ... BSL = L2 + 48 mm

2444 S ... B = L2 + 44 mm

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

