

Spur Gearheads

Zero Backlash ¹⁾

0,1 Nm

For combination with (overview on page 14-15)

DC-Micromotors:
2224, 2230, 2232, 2233

Brushless DC-Servomotors:
2232, 2248

DC-Motor-Tacho Combinations:
2251

Series 22/5

	22/5
Housing material	metal
Geartrain material	all metal
Recommended max. input speed for:	
– continuous operation	4 000 rpm
Backlash, when preloaded with the DC-Micromotor ¹⁾	0°
Bearings on output shaft	preloaded ball bearings
Shaft load, max.:	
– radial (6 mm from mounting face)	≤ 100 N
– axial	≤ 5 N ²⁾
Shaft press fit force, max.	≤ 5 N ²⁾
Shaft play (on bearing output):	
– radial	≤ 0,02 mm
– axial	= 0 mm ²⁾
Operating temperature range	– 30 ... + 100 °C

Specifications

reduction ratio (nominal)	weight without motor	length without motor	length with motor				output torque		direction of rotation (reversible)
			2224 R L1	2230 F L1	2232 R L1	2233 F L1	continuous operation M max. mNm	intermittent operation M max. mNm	
69,2 :1	80 g	50,9 mm	57,8 mm	63,6 mm	65,8 mm	66,2 mm	100	400	≠
161 :1	85 g	54,6 mm	61,6 mm	67,4 mm	69,6 mm	70,0 mm	100	400	≠
377 :1	90 g	59,5 mm	66,5 mm	72,3 mm	74,5 mm	74,9 mm	100	400	≠
879 :1	95 g	63,2 mm	70,3 mm	76,1 mm	78,3 mm	78,7 mm	100	400	≠
2 050 :1	105 g	68,1 mm	75,2 mm	81,0 mm	83,2 mm	83,6 mm	100	400	≠

¹⁾ These gearheads are available preloaded to zero backlash only when factory assembled to motors.

²⁾ Limited by the preloaded ball bearings. A higher axial load negates the preload.

Note: The reduction ratios are rounded, the exact values are available on request. For detailed information on zero backlash gearheads see page 120.

