

Planetary Gearheads

0,1 Nm

For combination with (overview on page 14-15)
 DC-Micromotors:
 1016, 1024, 1219, 1224
 Brushless DC-Servomotors:
 1226

Series 10/1

	10/1	10/1 K
Housing material	metal	metal
Geartrain material	all steel	all steel
Recommended max. input speed for:		
– continuous operation	5 000 rpm	5 000 rpm
Backlash, at no-load	≤ 3°	≤ 3°
Bearings on output shaft	sintered sleeve bearings	preloaded ball bearings
Shaft load, max.:		
– radial (5 mm from mounting face)	≤ 1 N	≤ 7 N
– axial	≤ 2 N	≤ 5 N ¹⁾
Shaft press fit force, max.	≤ 10 N	≤ 5 N ¹⁾
Shaft play (on bearing output):		
– radial	≤ 0,03 mm	≤ 0,02 mm
– axial	≤ 0,10 mm	= 0 mm ¹⁾
Operating temperature range	– 30 ... + 100 °C	– 30 ... + 100 °C

Specifications

reduction ratio	weight without motor	length without motor	length with motor					output torque		direction of rotation (reversible)	efficiency
			1016 M	1024 M	1219 M	1224 M	1226 M	continuous operation	intermittent operation		
	g	mm	L1	L1	L1	L1	L1	M max. mNm	M max. mNm		%
4 : 1	6	9,7	25,4	33,4	28,4	33,9	35,7	5	200	=	90
16 : 1	7	12,8	28,5	36,5	31,5	37,0	38,8	15	200	=	80
64 : 1	8	15,9	31,6	39,6	34,6	40,1	41,9	54	200	=	70
256 : 1	10	19,0	34,7	42,7	37,7	43,2	45,0	100	200	=	60
1 024 : 1	11	22,1	37,8	45,8	40,8	46,3	48,1	100	200	=	55
4 096 : 1	13	25,2	40,9	48,9	43,9	49,4	51,2	100	200	=	48

¹⁾ Limited by the preloaded ball bearings.
 A higher axial load negates the preload.

