

Planetary Gearheads

0,18 Nm

For combination with (overview on page 14-15)
DC-Micromotors:
1319, 1331, 1336

Series 13A

	13A	13AC	13AK
Housing material	plastic / aluminium	plastic / aluminium	plastic / aluminium
Geartrain material	plastic	plastic	plastic
Recommended max. input speed for:			
- continuous operation	5 000 rpm	5 000 rpm	5 000 rpm
Backlash, at no-load	≤ 4°	≤ 4°	≤ 4°
Bearings on output shaft	sintered sleeve bearings	ceramic bearings	ball bearings
Shaft load, max.:			
- radial (5 mm from mounting face)	≤ 3 N	≤ 10 N	≤ 15 N
- axial	≤ 1 N	≤ 2 N	≤ 5 N
Shaft press fit force, max.	≤ 10 N	≤ 10 N	≤ 10 N
Shaft play:			
- radial (5 mm from mounting face)	≤ 0,06 mm	≤ 0,08 mm	≤ 0,06 mm
- axial	≤ 0,25 mm	≤ 0,25 mm	≤ 0,25 mm
Operating temperature range	- 30 ... + 65 °C	- 20 ... + 85 °C	- 30 ... + 85 °C

Specifications

reduction ratio (nominal)	number of gear stages	weight without motor	length without motor	length with motor			output torque		direction of rotation (reversible)	efficiency
				1319 C L1	1331 C L1	1336 C L1	continuous operation M max. mNm	intermittent operation M max. mNm		
16 :1	2	g	mm	mm	mm	mm	100	150	=	80
50 :1	3	5	22,0	41,2	53,2	57,0	100	150	=	72
64 :1	3	5	22,0	41,2	53,2	57,0	100	150	=	72
158 :1	4	5	25,2	44,4	56,4	60,2	150	180	=	64
201 :1	4	5	25,2	44,4	56,4	60,2	150	180	=	64
256 :1	4	5	25,2	44,4	56,4	60,2	150	180	=	64
497 :1	5	6	28,4	47,6	59,6	63,4	180	220	=	55
632 :1	5	6	28,4	47,6	59,6	63,4	180	220	=	55
805 :1	5	6	28,4	47,6	59,6	63,4	180	220	=	55
1 024 :1	5	6	28,4	47,6	59,6	63,4	180	220	=	55

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

These gearheads are available only with motors mounted.

Vibrational load of up to 5 g at frequencies up to 500 Hz will not limit the function of the motor-gearhead combinations.

