

Planetary Gearheads

0,18 Nm

For combination with
DC-Micromotors:
1319, 1331, 1336

Series 13A

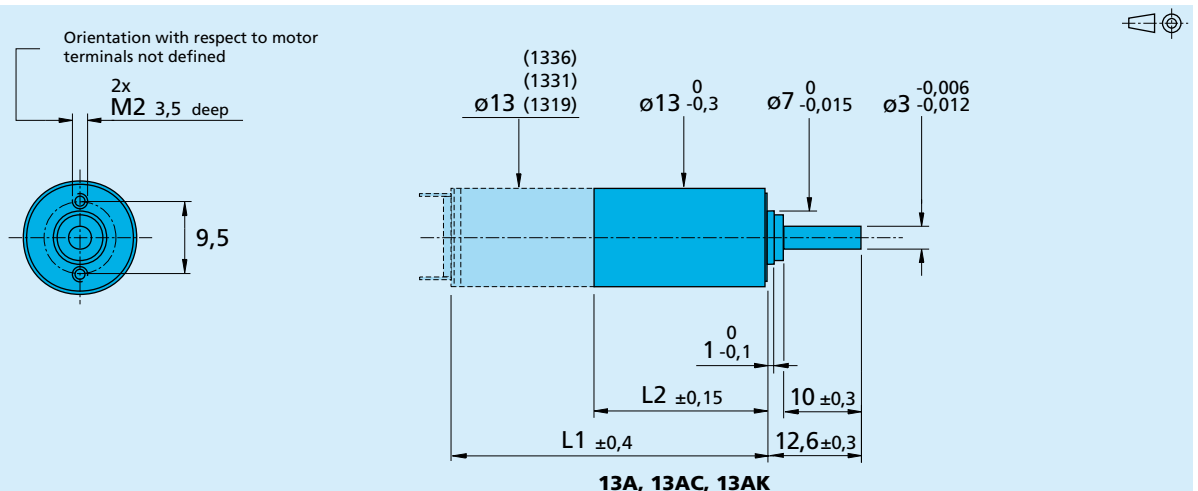
	13A	13AC	13AK
Housing material	plastic / aluminium	plastic / aluminium	plastic / aluminium
Geartrain material	plastic	plastic	plastic
Recommended max. input speed for:			
– continuous operation	5 000 rpm	5 000 rpm	5 000 rpm
Backlash, at no-load	≤ 4°	≤ 4°	≤ 4°
Bearings on output shaft	sintered sleeve 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 L2	length with motor			output torque		direction of rotation (reversible)	efficiency
				1319 SR L1	1331 SR L1	1336 C L1	continuous operation M max. mm	intermittent operation M max. mNm		
16 :1	2	g	mm	mm	mm	mm	mm	mNm	mNm	%
50 :1	3	5	18,8	38,0	50,0	53,8	100	150	=	80
64 :1	3	5	22,0	41,2	53,2	57,0	100	150	=	72
158 :1	4	5	22,0	41,2	53,2	57,0	100	150	=	72
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: Reduction ratios are rounded. Exact values available on request.

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



Planetary Gearheads

1 Nm

For combination with
 DC-Micromotors:
 2232, 2342, 2642, 2657
 Brushless DC-Servomotors:
 2444

Series 26A

	26A	26AK
Housing material	plastic	plastic
Geartrain material	plastic	plastic
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	ball bearings
Shaft load, max.:		
– radial (10 mm from mounting face)	≤ 4 N	≤ 60 N
– axial	≤ 4 N	≤ 15 N
Shaft press fit force, max.	≤ 20 N	≤ 20 N
Shaft play:		
– radial (5 mm from mounting face)	≤ 0,05 mm	≤ 0,04 mm
– axial	≤ 0,25 mm	≤ 0,25 mm
Operating temperature range	– 30 ... + 65 °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
				2232 R	2444 S	2342 W 2642 W	2657 W	continuous operation	intermittent operation		
		g	L2 mm	L1 mm	L1 mm	L1 mm	L1 mm	M max. mNm	M max. mNm		%
13 :1	2	21	32,7	67,4	76,7	74,7	89,7	300	500	=	81
16 :1	2	21	32,7	67,4	76,7	74,7	89,7	300	600	=	81
40 :1	3	23	38,5	73,2	82,5	80,5	95,5	750	1 100	=	73
50 :1	3	23	38,5	73,2	82,5	80,5	95,5	800	1 200	=	73
64 :1	3	23	38,5	73,2	82,5	80,5	95,5	800	1 200	=	73
124 :1	4	25	44,3	79,0	88,3	86,3	101,3	900	1 400	=	64
158 :1	4	25	44,3	79,0	88,3	86,3	101,3	1 000	1 500	=	64
201 :1	4	25	44,3	79,0	88,3	86,3	101,3	1 000	1 500	=	60
256 :1	4	25	44,3	79,0	88,3	86,3	101,3	1 000	1 500	=	60

Note: Reduction ratios are rounded. Exact values available on request.

