

Spur Gearheads

0,03 Nm

For combination with:
 DC-Micromotors: 1319, 1331, 1516, 1524,
 1616, 1624
 DC-Motor-Tacho Combinations: 1841

Series 15/2, 16/2

	15/2 and 16/2	15/2 K and 16/2 K
Housing material	metal	metal
Geartrain material	steel ¹⁾	steel ¹⁾
Recommended max. input speed for:		
- continuous operation	5000 rpm	5000 rpm
Backlash, at no-load	≤ 3°	≤ 3°
Bearings on output shaft	sintered sleeve bearings	preloaded ball bearings
Shaft load, max.:		
- radial (8,0 mm from mounting face)	≤ 1,5 N	≤ 25 N
- axial	≤ 2 N	≤ 5 N ²⁾
Shaft press fit force, max.	≤ 30 N	≤ 5 N ²⁾
Shaft play (on bearing output):		
- radial	≤ 0,03 mm	≤ 0,02 mm
- axial	≤ 0,20 mm	= 0 mm ²⁾
Operating temperature range	- 30 ... + 100 °C	- 30 ... + 100 °C

Specifications

reduction ratio (nominal)	weight without motor	length without motor	length with motor				output torque		direction of rotation (reversible)	efficiency
			1319 E	1331E	1516 E 1616 E	1524 E 1624 E	continuous operation	intermittent operation		
	g	L2 mm	L1 mm	L1 mm	L1 mm	L1 mm	M max. mNm	M max. mNm		%
3,45 :1	9	18,0	24,1	36,3	20,9	28,9	7	100	≠	90
6,3 :1	11	20,1	26,2	38,4	23,0	31,0	7	100	=	81
11,8 :1	11	20,1	26,2	38,4	23,0	31,0	10	100	=	81
22 :1	13	22,2	28,3	40,5	25,1	33,1	10	100	≠	73
41 :1	13	22,2	28,3	40,5	25,1	33,1	20	100	≠	73
76 :1	15	24,3	30,4	42,6	27,2	35,2	20	100	=	66
141 :1	15	24,3	30,4	42,6	27,2	35,2	30	100	=	66
262 :1	16	26,4	32,5	44,7	29,3	37,3	30	100	≠	59
485 :1	16	26,4	32,5	44,7	29,3	37,3	30	100	≠	59
900 :1	17	28,5	34,6	46,8	31,4	39,4	30	100	=	53
1 670 :1	17	28,5	34,6	46,8	31,4	39,4	30	100	=	53
3 101 :1	18	30,6	36,7	48,9	33,5	41,5	30	100	≠	48
5 752 :1	18	30,6	36,7	48,9	33,5	41,5	30	100	≠	48
10 683 :1	19	32,7	38,8	51,0	35,6	43,6	30	100	=	43
19 813 :1	19	32,7	38,8	51,0	35,6	43,6	30	100	=	43
36 796 :1	21	34,8	40,9	53,1	37,7	45,7	30	100	≠	39
68 245 :1	21	34,8	40,9	53,1	37,7	45,7	30	100	≠	39
126 741 :1	22	36,9	43,0	55,2	39,8	47,8	30	100	=	35
235 067 :1	22	36,9	43,0	55,2	39,8	47,8	30	100	=	35

1) Gearheads with ratio ≥ 262:1 have plastic gears in the input stage.
 For extended life performance, the gearheads are available with all steel gears and heavy duty lubricant: type 15/2 S and 16/2 S.

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

