

Spur Gearheads

0,03 Nm

For combination with
DC-Micromotors

Series 16A

	16A	16AC	16AK
Housing material	plastic	plastic	plastic
Geartrain material	metal	metal	metal
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 bearings	ceramic bearings	ball bearings
Shaft load, max.:			
– radial (5 mm from mounting face)	≤ 2 N	≤ 6 N	≤ 10 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)	≤ 0,05 mm	≤ 0,06 mm	≤ 0,06 mm
– axial	≤ 0,25 mm	≤ 0,25 mm	≤ 0,25 mm
Operating temperature range	- 30 ... + 65 °C	- 20 ... + 65 °C	- 30 ... + 65 °C

Specifications

		2	3	3	4	4	5	6	7
Number of gear stages									
Continuous torque	mNm	10	10	20	20	30	30	30	30
Intermittent torque	mNm	100	100	100	100	100	100	100	100
Weight without motor, ca.	g	3	4	4	4	4	5	5	6
Efficiency, max.	%	81	73	73	66	66	59	53	48
Direction of rotation, drive to output		=	≠	≠	=	=	≠	=	≠
Reduction ratio ¹⁾ (rounded)		11,9:1	22:1	41:1	76:1	141:1	262:1 485:1	900:1 1 670:1	3 101:1 5 752:1
L2 [mm] = length without motor		9,2	11,0	11,0	12,8	12,8	14,5	16,3	18,0
L1 [mm] = length with motor									
	1516E...S	25,0	26,8	26,8	28,6	28,6	30,3	32,1	33,8
	1516E...SR	25,0	26,8	26,8	28,6	28,6	30,3	32,1	33,8
	1524E...SR	33,0	34,8	34,8	36,6	36,6	38,3	40,1	41,8
	1624E...S	33,0	34,8	34,8	36,6	36,6	38,3	40,1	41,8
	1717E...SR	26,2	28,0	28,0	29,8	29,8	31,5	33,3	35,0
	1724E...SR	33,0	34,8	34,8	36,6	36,6	38,3	40,1	41,8

¹⁾ The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.

