

# 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
Mass 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 <sup>1)</sup> (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	1516E...SR 25,0	1524E...SR 33,0	1624E...S 33,0	1717E...SR 26,2	1724E...SR 33,0		

<sup>1)</sup> The reduction ratios are rounded, the exact values are available on request or at [www.faulhaber.com](http://www.faulhaber.com).

