

# Spur Gearheads

## Zero Backlash

### 0,03 Nm

For combination with  
DC-Micromotors  
Brushless DC-Motors  
Stepper Motors

## Series 12/5

	12/5
Housing material	metal
Geartrain material	metal
Recommended max. input speed for: – continuous operation	5 000 rpm
Backlash, at no-load	0 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (4,5 mm from mounting face)	≤ 5 N
– axial	≤ 5 N
Shaft press fit force, max.	≤ 10 N
Shaft play	
– radial (4,5 mm from mounting face)	≤ 0,02 mm
– axial	= 0 mm
Operating temperature range	- 30 ... + 100 °C

### Specifications

	5	6	7	8	9
Number of gear stages					
Continuous torque	mNm 30	30	30	30	30
Intermittent torque	mNm 100	100	100	100	100
Weight without motor, ca.	g 11	12	13	14	15
Efficiency, max.	-	-	-	-	-
Direction of rotation, drive to output	≠	=	≠	=	≠
Reduction ratio <sup>1)</sup> (rounded)	69,2:1	161:1	377:1	879:1	2 050:1
L2 [mm] = length without motor	18,7	20,8	22,9	25,0	27,1
L1 [mm] = length with motor	1024E...S 42,4	44,5	46,6	48,7	50,8
	1224E...S 42,9	45,0	47,1	49,2	51,3
	1224E...SR 42,9	45,0	47,1	49,2	51,3
	1226E...B 44,7	46,8	48,9	51,0	53,1
	ADM1220...-07 36,2	38,3	40,4	42,5	44,6
	ADM1220S...-57 36,2	38,3	40,4	42,5	44,6
	AM1020...-10 34,5	36,6	38,7	40,8	42,9

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

**Note:** These gearheads are available only with motors mounted.

