

# Spur Gearheads

## 15 mNm

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

### Series 08/2

	08/2	08/2K
Housing material	metal	metal
Geartrain material	metal	metal
Recommended max. input speed for:		
- continuous operation	8 000 rpm	8 000 rpm
Backlash, at no-load	$\leq 5^\circ$	$\leq 5^\circ$
Bearings on output shaft	sintered bearings	ball bearings
Shaft load, max.:		
- radial (4,5 mm from mounting face)	$\leq 0,8 \text{ N}$	$\leq 5 \text{ N}$
- axial	$\leq 1 \text{ N}$	$\leq 3 \text{ N}$
Shaft press fit force, max.	$\leq 5 \text{ N}$	$\leq 5 \text{ N}$
Shaft play		
- radial (4,5 mm from mounting face)	$\leq 0,06 \text{ mm}$	$\leq 0,06 \text{ mm}$
- axial	$\leq 0,1 \text{ mm}$	$\leq 0,05 \text{ mm}$
Operating temperature range	- 30 ... + 100 °C	- 30 ... + 100 °C

### Specifications

		2	3	4	5	6	7	8	9
Number of gear stages									
Continuous torque	mNm	15	15	15	15	15	15	15	15
Intermittent torque	mNm	25	25	25	25	25	25	25	25
Mass without motor, ca.	g	3,2	3,4	3,6	3,8	4	4,2	4,4	4,6
Efficiency, max.	%	94	90	86	81	77	74	70	66
Direction of rotation, drive to output		=	$\neq$	=	$\neq$	=	$\neq$	=	$\neq$
Reduction ratio <sup>1)</sup> (rounded)		4:1	9,4:1	21,9:1	51,2:1	120:1	279:1	650:1	1 518:1
L2 [mm] = length without motor		12,0	13,4	15,2	17,0	18,8	20,6	22,4	24,2
L1 [mm] = length with motor									
	0816D...SR	27,9	29,3	31,1	32,9	34,7	36,5	38,3	40,1
	0824D...B	36,1	37,5	39,3	41,1	42,9	44,7	46,5	48,3
	AM0820...-12	25,8	27,2	29,0	30,8	32,6	34,4	36,2	38,0

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

