

# Planetary Gearheads

## 0,3 Nm

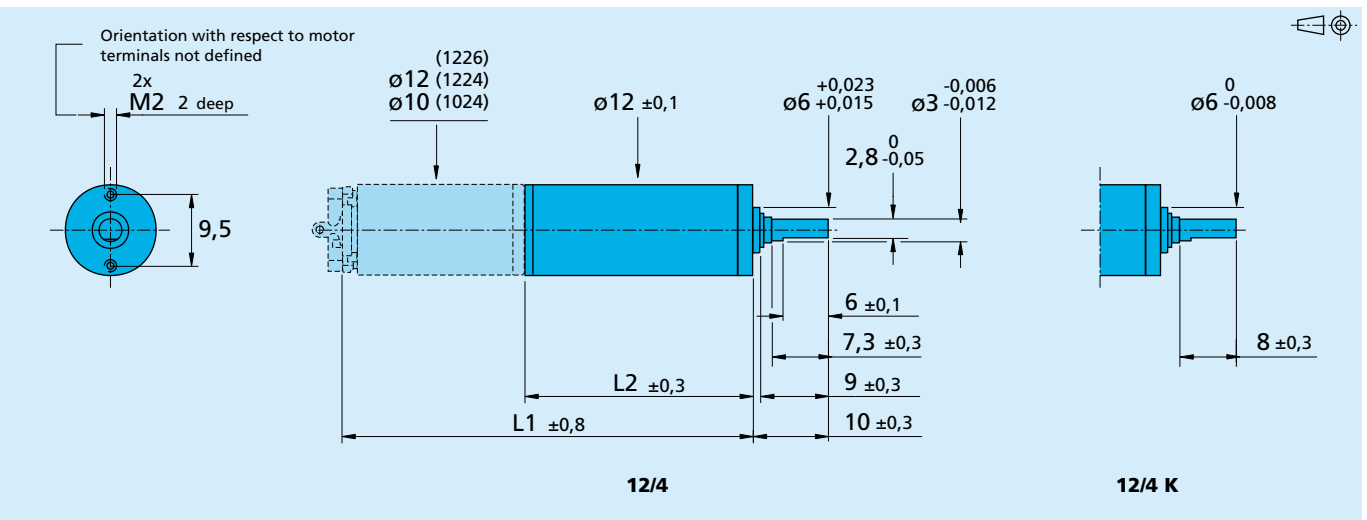
For combination with (overview on page 14-15)  
 DC-Micromotors:  
 1024, 1224  
 Brushless DC-Servomotors:  
 1226

### Series 12/4

	12/4	12/4 K
Housing material	metal	metal
Geartrain material	metal	metal
Recommended max. input speed for:		
– continuous operation	5 000 rpm	5 000 rpm
Backlash, at no-load	≤ 3°	≤ 3°
Bearings on output shaft	sintered sleeve bearings	preloaded ball bearings
Shaft load, max.:		
– radial (6 mm from mounting face)	≤ 4 N	≤ 20 N
– axial	≤ 3 N	≤ 5 N
Shaft press fit force, max.	≤ 15 N	≤ 5 N
Shaft play (on bearing output):		
– radial	≤ 0,03 mm	≤ 0,02 mm
– axial	≤ 0,1 mm	= 0 mm
Operating temperature range	– 30 ... + 100 °C	– 30 ... + 100 °C

### Specifications

reduction ratio	weight without motor	length without motor	length with motor			output torque		direction of rotation (reversible)	efficiency
			1024 A L1	1224 A L1	1226 A L1	continuous operation M max. mNm	intermittent operation M max. mNm		
4:1	12 g	15,1 mm	38,8 mm	39,3 mm	41,1 mm	300	450	=	90 %
16:1	15 g	19,7 mm	43,4 mm	43,9 mm	45,7 mm	300	450	=	80 %
64:1	18 g	24,3 mm	48,0 mm	48,5 mm	50,3 mm	300	450	=	70 %
256:1	21 g	28,9 mm	52,6 mm	53,1 mm	54,9 mm	300	450	=	60 %
1 024:1	24 g	33,5 mm	57,2 mm	57,7 mm	59,5 mm	300	450	=	55 %



For details on technical information and lifetime performance refer to pages 118-122.

Specifications subject to change without notice.