

# Hybrid Gearheads

## 0,2 Nm

For combination with

DC-Micromotors:  
1516, 1524

Brushless DC-Servomotors:  
1524 BSL, 1536 BSL

### Series 15/4

15/4

Housing material	plastic
Geartrain material	metal/plastic
Recommended max. input speed for: – continuous operation	5 000 rpm
Backlash, at no-load	≤ 3°
Bearings on output shaft	preloaded ball bearings
Shaft load, max.:	
– radial (4,7 mm from mounting face)	≤ 10 N
– axial	≤ 5 N
Shaft press fit force, max.	≤ 30 N
Shaft play:	
– radial (4,7 mm from mounting face)	≤ 0,02 mm
– axial	= 0 mm
Operating temperature range	– 30 ... + 85 °C

### Specifications

reduction ratio (nominal)	weight without motor g	length without motor L2 mm	length with motor				output torque		direction of rotation (reversible)	efficiency %
			1516 E L1 mm	1524 E L1 mm	1524 BSL L1 mm	1536 BSL L1 mm	continuous operation M max. mNm	intermittent operation M max. mNm		
12,3 :1	10	47,4	47,4	50,5	55,8	68,2	200	300	≠	80
22,8 :1	10	47,4	47,4	51,8	55,8	68,2	200	300	=	75
42,3 :1	11	47,4	47,4	55,2	55,8	68,2	200	300	≠	70
78,5 :1	11	47,4	47,4	55,2	55,8	68,2	200	300	≠	70
146 :1	12	47,4	50,6	58,6	59,0	71,4	200	300	=	65
270 :1	12	47,4	50,6	58,6	59,0	71,4	200	300	=	65
502 :1	13	47,4	52,7	60,7	61,2	73,5	200	300	≠	60
931 :1	13	47,4	52,7	60,7	61,2	73,5	200	300	≠	60
1 730 :1	14	47,4	54,8	62,8	63,2	75,6	200	300	=	55
3 208 :1	14	47,4	54,8	62,8	63,2	75,6	200	300	=	55

**Note:** The reduction ratios are rounded, the exact values are available on request.

