

# Planetary Gearheads

## 0,25 Nm

For combination with (overview on page 14-15)  
 DC-Micromotors:  
 1516, 1524, 1624, 1717, 1724

### Series 15A

	15A	15AC	15AK
Housing material	plastic	plastic	plastic
Geartrain material	plastic	plastic	plastic
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 sleeve bearings	ceramic bearings	ball bearings
Shaft load, max.:			
- radial (5 mm from mounting face)	≤ 3 N	≤ 10 N	≤ 15 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)	≤ 0,06 mm	≤ 0,08 mm	≤ 0,06 mm
- axial	≤ 0,25 mm	≤ 0,25 mm	≤ 0,25 mm
Operating temperature range	- 30 ... + 65 °C	- 20 ... + 85 °C	- 30 ... + 85 °C

### Specifications

reduction ratio (nominal)	motor ordering code <sup>1)</sup>	number of gear stages	weight without motor	length without motor L2	length with motor				output torque		direction of rotation (reversible)	efficiency
					1516	1524 1624	1717	1724	continuous operation	intermittent operation		
			g	mm	L1	L1	L1	L1	M max. mNm	M max. mNm		%
5,33 :1	A	1	4	14,8	29,9	37,9	31,1	38,1	50	100	=	87
14 :1	B	2	5	18,4	33,5	41,5	34,7	41,7	100	200	=	78
19 :1	B	2	5	18,4	33,5	41,5	34,7	41,7	100	200	=	78
28 :1	A	2	5	18,4	33,5	41,5	34,7	41,7	100	200	=	77
52 :1	B	3	5	22,0	37,1	45,1	38,3	45,3	100	200	=	68
69 :1	B	3	5	22,0	37,1	45,1	38,3	45,3	100	200	=	69
102 :1	A	3	5	22,0	37,1	45,1	38,3	45,3	100	200	=	68
152 :1	A	3	5	22,0	37,1	45,1	38,3	45,3	150	300	=	67
249 :1	B	4	6	25,6	40,7	48,7	41,9	48,9	200	400	=	62
369 :1	A	4	6	25,6	40,7	48,7	41,9	48,9	200	400	=	61
546 :1	A	4	6	25,6	40,7	48,7	41,9	48,9	200	400	=	60
809 :1	A	4	6	25,6	40,7	48,7	41,9	48,9	200	400	=	59
896 :1	B	5	6	29,2	44,3	52,3	45,5	52,5	200	400	=	55
1 327 :1	A	5	6	29,2	44,3	52,3	45,5	52,5	200	400	=	54
1 966 :1	A	5	6	29,2	44,3	52,3	45,5	52,5	200	400	=	53
2 913 :1	A	5	6	29,2	44,3	52,3	45,5	52,5	250	400	=	52
3 225 :1	B	6	7	32,8	47,9	55,9	49,1	56,1	250	400	=	49
4 315 :1	A	5	6	29,2	44,3	52,3	45,5	52,5	250	400	=	51
4 778 :1	A	6	7	32,8	47,9	55,9	49,1	56,1	250	400	=	48
7 078 :1	A	6	7	32,8	47,9	55,9	49,1	56,1	250	400	=	47
10 486 :1	A	6	7	32,8	47,9	55,9	49,1	56,1	250	400	=	46
15 534 :1	A	6	7	32,8	47,9	55,9	49,1	56,1	250	400	=	46

<sup>1)</sup> Example of ordering information: 1516 B 012 SR + 15A 19:1

**Note:** The reduction ratios are rounded, the exact values are available on request.  
 These gearheads are available only with motors mounted.

