

**NEW**

# Planetary Gearheads

0,7 Nm

For combination with (overview on page 14-15)  
 DC-Micromotors:  
 2224, 2230, 2232, 2233, 2342  
 Brushless DC-Servomotors:  
 2232, 2248, 2444

## Series 22/7

	22/7
Housing material	metal
Geartrain material	all steel
Recommended max. input speed for:	
– continuous operation	4 000 rpm
Backlash, at no-load	≤ 1°
Bearings on output shaft	preloaded ball bearings
Shaft load, max.:	
– radial (10 mm from mounting face)	≤ 170 N
– axial	≤ 150 N
Shaft press fit force, max.	≤ 150 N
Shaft play (on bearing output):	
– radial	≤ 0,015 mm
– axial	≤ 0,10 mm
Operating temperature range	– 30 ... + 100 °C

### Specifications

reduction ratio (nominal)	weight without motor	length without motor L2	length with brushed DC-Micromotor					output torque		direction of rotation (reversible)	efficiency
			2224 U L1	2230 U L1	2232 U L1	2233 U L1	2342 S L1	continuous operation M max. mNm	intermittent operation M max. mNm		
3,71:1 <sup>1)</sup>	68	24,0	48,2	54,0	56,2	56,6	—	200	400	=	88
3,71:1	68	27,9	—	—	—	—	69,9	200	400	=	88
14 :1	63	34,1	54,4	60,2	62,4	62,8	76,1	300	600	=	80
43 :1	76	40,3	60,6	66,4	68,6	69,0	82,3	700	1 000	=	70
66 :1	76	40,3	60,6	66,4	68,6	69,0	82,3	700	1 000	=	70
134 :1	88	46,4	66,7	72,5	74,7	75,1	88,4	700	1 000	=	60
159 :1	88	46,4	66,7	72,5	74,7	75,1	88,4	700	1 000	=	60
246 :1	88	46,4	66,7	72,5	74,7	75,1	88,4	700	1 000	=	60
415 :1	102	52,6	72,9	78,7	80,9	81,3	94,6	700	1 000	=	55
592 :1	102	52,6	72,9	78,7	80,9	81,3	94,6	700	1 000	=	55
989 :1	102	52,6	72,9	78,7	80,9	81,3	94,6	700	1 000	=	55
1 526 :1	102	52,6	72,9	78,7	80,9	81,3	94,6	700	1 000	=	55

<sup>1)</sup> Gearheads with ratio 3,71:1 available for motor types 2224, 2230, 2232 and 2233 are to be order as 22/7 - 3,71:1 - K288

<sup>2)</sup> Only for reduction ratio ≥ 14:1

<sup>3)</sup> Length L1 with brushless DC-Servomotors:  
 2232 S = L2 + 32,3 mm  
 2248 S = L2 + 48 mm  
 2444 S = L2 + 44 mm

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

