

Precision Planetary Gearheads

TYPICAL APPLICATIONS

- Conveyor systems
- Medical pumps
- Packaging equipment
- Machine tools
- Factory automation
- Any application requiring:
 - Speed reduction
 - Torque multiplication

FEATURES

- Fits our brush and brushless motors
- Precision manufactured in accordance with DIN EN ISO 9001 Standards
- Compact design
- High efficiency
- Suitable for continuous, reversing and intermittent operation
- Can be installed in any attitude
- Life-time lubricant for maintenance-free operation

BENEFITS

- Coaxial arrangement of input and output
- Compact design
- High efficiency
- Low moments-of-inertia
- Can be installed in any attitude
- Suitable for continuous, reversing and intermittent operation
- Low sensitivity to impact load
- Large range of ratios available

32, 52, 62, 81 and 120 mm
(1.26 - 4.72 inch) Diameter



Quiet Precision Gearheads

Moog Components Group precision gearheads, when coupled to our line of brush-type and brushless motors, provide the user with a quiet and powerful precision gearmotor. Available in a wide range of ratios and output torques, these gearmotors will meet the requirements of a vast number of applications. Life-time lubrication ensures long life and maintenance-free operation.

Our engineering department is available for consultation to help you tailor a gearmotor for your specific application.

Note: This catalog contains basic marketing information and general part descriptions of Moog Components Group product lines. With respect to the U.S. export regulations, the products described herein are controlled by the U.S. Commerce Department or the U.S. State Department. Contact Moog Components Group for additional detail on the export controls that are applicable to your part.

62 MM (2.44 INCH) DIAMETER SPECIFICATIONS

Available Ratios	# of Stages	Output Torque	Shaft Inertia (gcm ²)
4:1 (3.70:1)	One	8.0 Nm (5.90 ft - lbs)	0.037
4:1 (4.28:1)	One	8.0 Nm (5.90 ft - lbs)	0.029
5:1 (5.18:1)	One	8.0 Nm (5.90 ft - lbs)	0.023
7:1 (6.75:1)	One	8.0 Nm (5.90 ft - lbs)	0.017
14:1 (13.73:1)	Two	25.0 Nm (18.44 ft - lbs)	0.035
16:1 (15.88:1)	Two	25.0 Nm (18.44 ft - lbs)	0.028
18:1 (18.36:1)	Two	25.0 Nm (18.44 ft - lbs)	0.028
19:1 (19.20:1)	Two	25.0 Nm (18.44 ft - lbs)	0.022
22:1 (22.20:1)	Two	25.0 Nm (18.44 ft - lbs)	0.022
25:1 (25.01:1)	Two	25.0 Nm (18.44 ft - lbs)	0.017
27:1 (26.85:1)	Two	25.0 Nm (18.44 ft - lbs)	0.022
29:1 (28.93:1)	Two	25.0 Nm (18.44 ft - lbs)	0.017
35:1 (34.97:1)	Two	25.0 Nm (18.44 ft - lbs)	0.017
46:1 (45.56:1)	Two	25.0 Nm (18.44 ft - lbs)	0.017
51:1 (50.89:1)	Three	50.0 Nm (36.88 ft - lbs)	0.035
59:1 (58.85:1)	Three	50.0 Nm (36.88 ft - lbs)	0.028
68:1 (68.06:1)	Three	50.0 Nm (36.88 ft - lbs)	0.028
71:1 (71.16:1)	Three	50.0 Nm (36.88 ft - lbs)	0.021
79:1 (78.71:1)	Three	50.0 Nm (36.88 ft - lbs)	0.028
93:1 (92.70:1)	Three	50.0 Nm (36.88 ft - lbs)	0.016
95:1 (95.17:1)	Three	50.0 Nm (36.88 ft - lbs)	0.022
100:1 (99.50:1)	Three	50.0 Nm (36.88 ft - lbs)	0.022
107:1 (107.20:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
115:1 (115.07:1)	Three	50.0 Nm (36.88 ft - lbs)	0.022
124:1 (123.97:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
130:1 (129.62:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
139:1 (139.13:1)	Three	50.0 Nm (36.88 ft - lbs)	0.022
150:1 (149.90:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
169:1 (168.84:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
181:1 (181.24:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
195:1 (195.26:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
236:1 (236.09:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017
308:1 (307.54:1)	Three	50.0 Nm (36.88 ft - lbs)	0.017

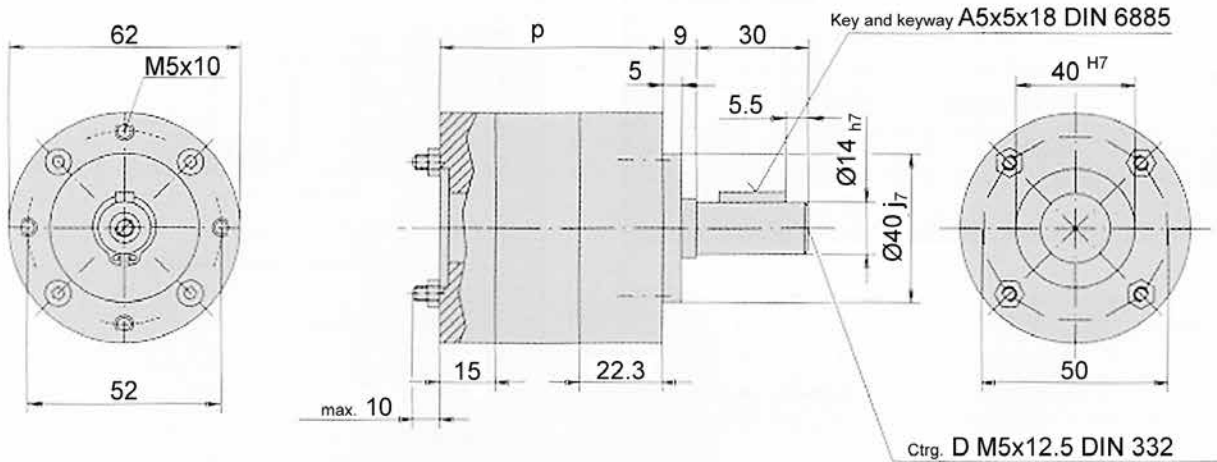


62 mm Technical Data

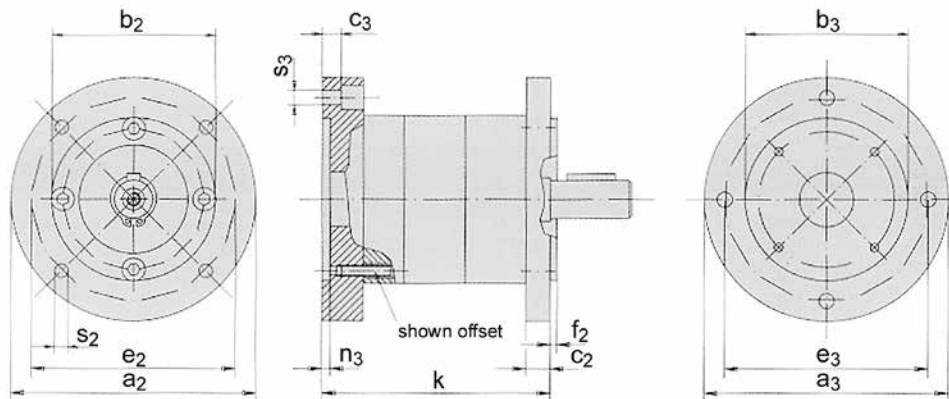
Parameter	Units	1-Stage	2-Stage	3-Stage
Max Input Speed	rpm	5000	5000	5000
Efficiency	%	80	75	70
Approx. Backlash (no-load, input locked)	DMS°	1.0	1.5	2.0
Radial Load	N	240	360	520
Axial Load	N	50	70	120
Max Permitted Fitting Pressure	N	1000	1000	1000
Weight	kg	0.8	1.2	1.6
Dimension (diameter x length)	mm	62 x 102	62 x 118	62 x 134
Lubrication	Grease (life-time lubrication)			
Installation Attitude	Any			
Operating Temperature	-15 to +80° C			
Direction of Rotation	Same for input and output shaft			

Package Dimensions

Basic Version



Standard Flange Version



Gear Unit Length				1-Stage	2-Stage	3-Stage
P				63	77	93
K				84	100	116

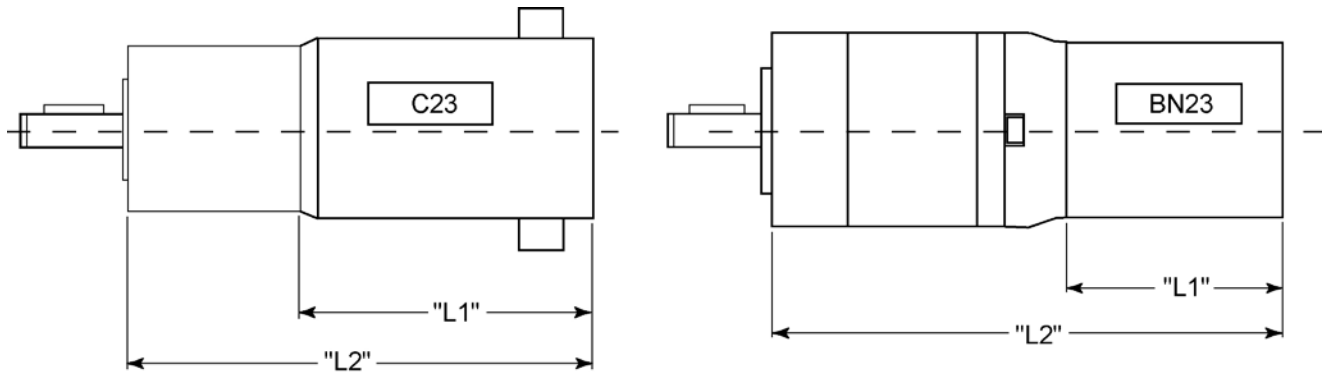
DIM of Motor Mounting Flange		a ₃	b ₃	c ₃	e ₃	n ₃	s ₃
Motor size 56 (B14, B3/B14)	C 80	80	50 H7	7	65	3	5.5
	C 105	105	70 H7	7	85	3	6.5
Motor size 63 (B14, B3/B14)	C 90	90	60 H7	7	75	3	5.5
	C 120	120	80 H7	7	100	3.5	6.5

DIM of Gear Unit Output Flange	a ₂	b ₂	c ₂	e ₂	f ₂	s ₂
C 80	80	50 J7	9	65	2.5	M5
C 90	90	60 J7	9	75	2.5	5.5
C 105	105	70 J7	9	85	2.5	6.5
C 120	120	80 J7	9	100	3.0	6.5

We reserve the right to make technical changes.

Note: All dimension on this page are in millimeters.

62 mm Dimensional Drawings



Motor + Gearhead Dimensions*

Unit Type	L1 Max	L2 Max (1-Stage)	L2 Max (2-Stage)	L2 Max (3-Stage)
C23-L33	3.30 in (83.8 mm)	5.986 in (152 mm)	6.538 in (166 mm)	7.089 in (180 mm)
C23-L40	4.00 in (101.6 mm)	6.686 in (169.8 mm)	7.238 in (183.8 mm)	7.789 in (197.8 mm)
C23-L45	4.50 in (114.3 mm)	7.186 in (182.5 mm)	7.738 in (196.5 mm)	8.289 in (210.5 mm)
C23-L50	5.00 in (127 mm)	7.686 in (195.2 mm)	8.238 in (209.2 mm)	8.789 in (223.2 mm)
C23-L55	5.50 in (139.7 mm)	8.186 in (207.9 mm)	8.738 in (222 mm)	9.289 in (236 mm)
BN23-13	1.41 in (35.8 mm)	4.865 in (123.6 mm)	5.415 in (137.5 mm)	6.045 in (153.5 mm)
BN23-18	1.91 in (48.5 mm)	5.365 in (136.3 mm)	5.915 in (150.2 mm)	6.545 in (166.2 mm)
BN23-23	2.41 in (61.2 mm)	5.865 in (149.9 mm)	6.415 in (162.9 mm)	7.045 in (178.9 mm)
BN23-28	2.91 in (73.9 mm)	6.365 in (161.7 mm)	6.915 in (175.6 mm)	7.545 in (191.6 mm)

*All dimensions are reference dimensions

Ordering Information - Examples

62-46:1 – 62 mm gearhead, 46:1 ratio
 62-308:1 – 62 mm gearhead, 308:1 ratio