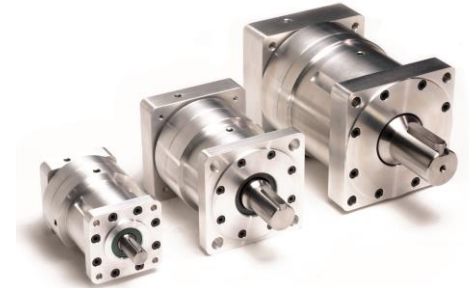


LT1 Gearheads

Lifetime Series Harmonic Servo Gearheads

Features

- Lifetime zero backlash
- Ultra-high repeatability (less than 10 arc-sec)
- High positional accuracy (± 1.5 arc-min standard)
- NEMA 17, and metric
- Single stage, high reduction ratios from 50 to 100:1
- High output torque in a compact gearhead
- Low noise and heat generation
- High efficiency, torsional stiffness and torque-to-weight ratio



Standard Specifications

Ratio		50	80	100
Nominal Output Torque ¹	Nm	12	12	15
Maximum Output Torque ²	Nm	24	24	30
Nominal Input Speed ³	rpm	3000		
Maximum Input Speed ⁴	rpm	7300		
Max. Radial Load ⁵	N	1268		
Max. Axial Load ⁶	N	870		
No-Load Starting Torque ⁷	Ncm	5.4	3.3	3
No-Load Back Driving Torque ⁸	Nm	2.3	2.6	2.7
Service Life ⁹	hrs	25000		
Torsional Rigidity ¹⁰	Nm/arc-min	2.6		
Repeatability	arc-sec	± 10		
Positional Accuracy	arc-sec	± 90		
Backlash	arc-sec	0		
Moment of Inertia	kgcm ²	0.047		
Noise Level	dB(A)	< 67		
Protection Class	-	IP64		
Permitted Housing Temp.	°C	90		
Permitted Ambient Temp.	°C	0 - 40		
Lubrication ¹¹	-	Permanent		
Weight ¹²	kg	0.68		

1) Rated torque at 3,000 rpm input for an average life of 25,000 hours

2) Exceeding the maximum output torque limit may immediately damage the drive

3) Input speed at rated output torque for an average life of 25,000 hours

4) The maximum intermittent input speed

5) At key center line, calculated at 100 rpm output speed and nominal output torque

6) At end of output shaft, calculated at 100 rpm output speed and nominal output

7) Minimum input torque required to turn the output shaft with no load

8) Minimum torque, if applied to the output shaft, that will cause the unit to back drive

9) Average life at nominal load and input speed

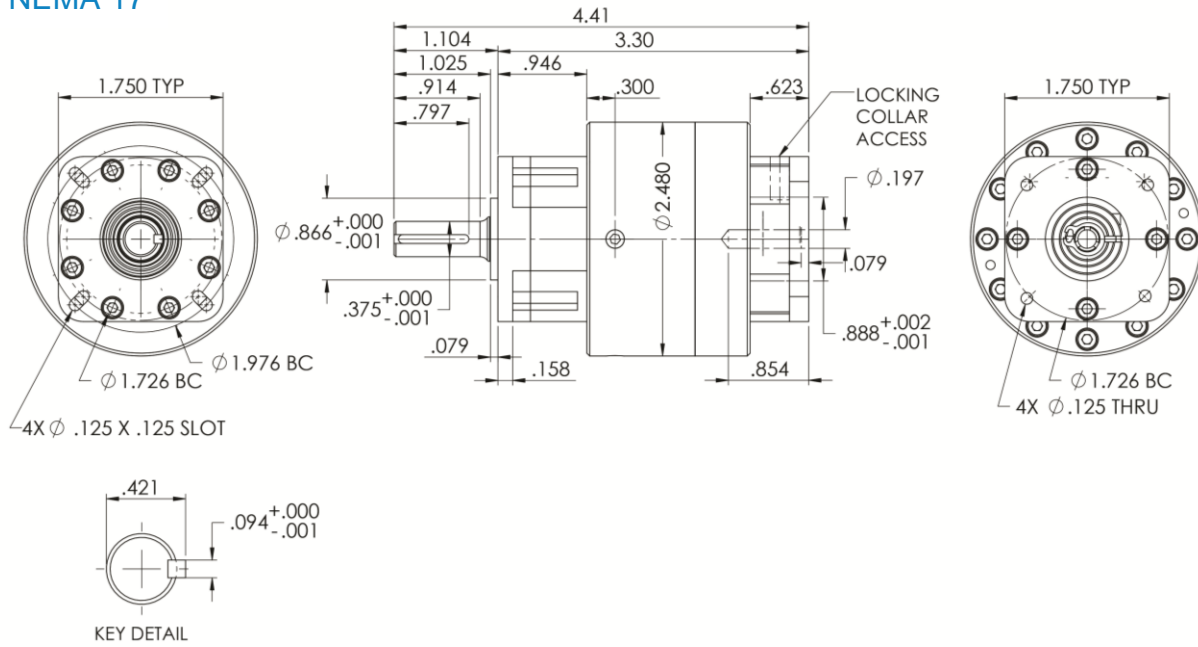
10) Torsional rigidity at nominal torque

11) Mobil Beacon 325 grease, synthetic oil available on request

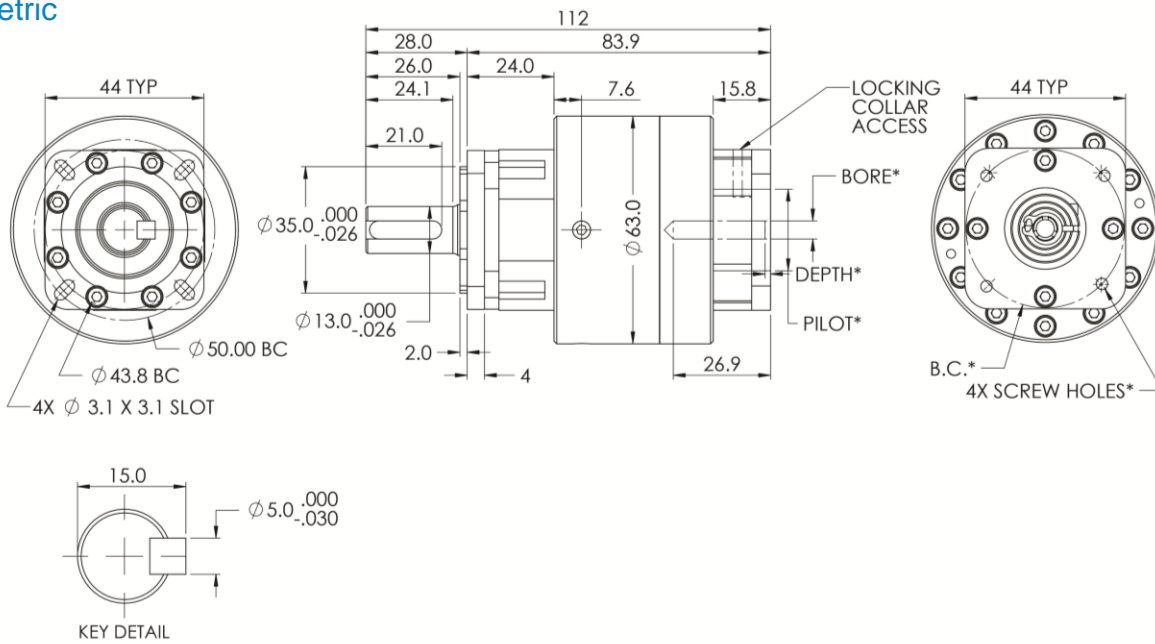
12) Weight may vary slightly dependent upon adapter options

LT 1 Dimensions

NEMA 17



Metric



Ordering Codes

