

# Micron TRUE Planetary<sup>®</sup> Gearheads

UltraTRUE<sup>™</sup>, ValueTRUE<sup>™</sup>, NemaTRUE<sup>™</sup>,  
DuraTRUE<sup>™</sup>, EverTRUE<sup>™</sup> and XTRUE<sup>™</sup>

## Installation & Mounting Instructions

P-3060-BG  
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Keep all product manuals as a product component during the life span of the product. Pass all product manuals to future users/owners of the product.

## 1. Introduction

1.1. **RediMount™ System** - Micron True Planetary® gearhead products combine precise speed reduction and torque multiplication with ease of installation using the innovative RediMount system. The most flexible mounting system in the world, the RediMount allows error free mounting to any motor in just a few simple steps. It's easy to use system features a specifically designed input housing and sleeve to accommodate all motor mounting dimensions.

1.2. **RediMount™ Design** - The Micron Redi Mount design provides:

- A self aligning hub to maintain concentricity between motor shaft and gearhead.
- All of the hardware required to mount up to your motor.
- A pre-installed pinion to eliminate setting procedure.
- A modular design to allow separate stocking of the gearhead and mounting kit.
- Flexibility in changing to alternate motors in the field.
- Interchangeability. The RediMount is not product specific so the same mounting kit is used across all of Micron's product lines. If you have a mounting kit for any specific motor, that same kit is used for every Micron gearhead of that frame size, every ratio and in both in-line and right angle.

1.3. **Gearhead Express™ Program** - Because of the flexibility of the RediMount system, Micron is able to offer industry best lead times and the ability to ship the most popular sizes and ratios in 24 hours with the Gearhead Express Program.

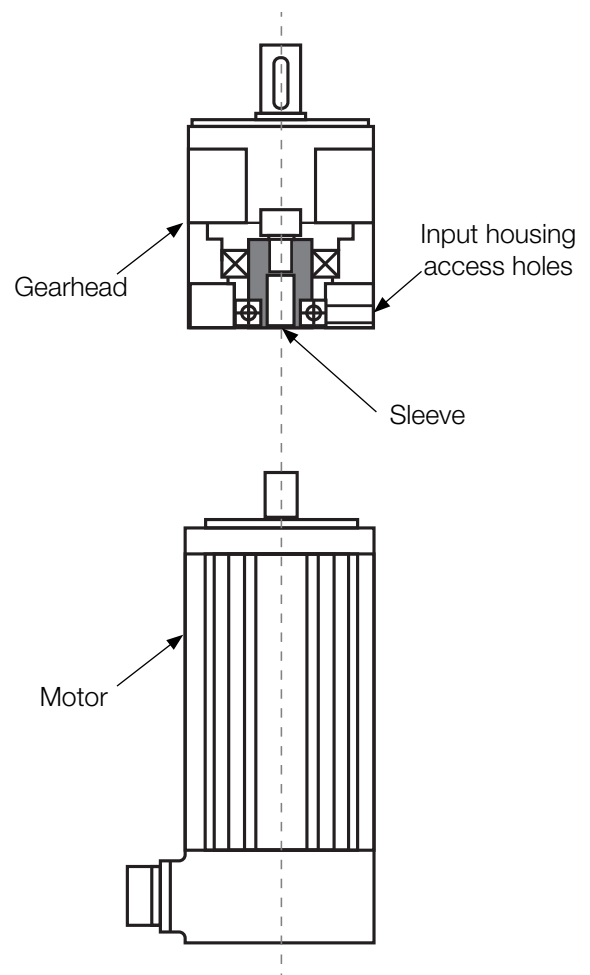
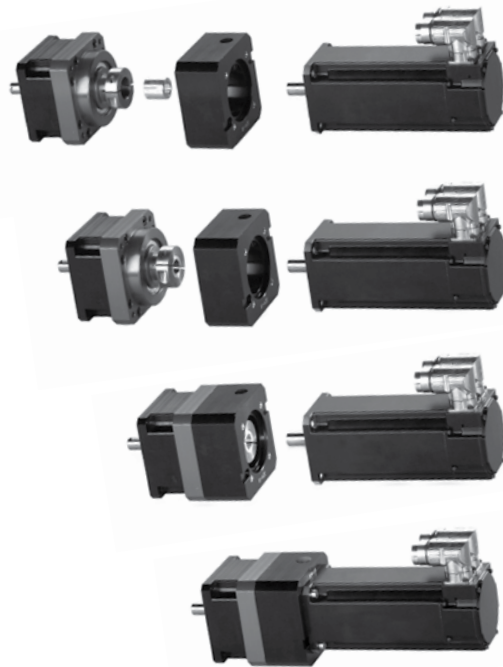
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shipped within 24 hours!**



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## 2. Recommended Tools

2.1.(1) Torque wrench with hex drive per Table 5.1.



**Important:  
Mounting must be done in  
a vertical orientation**

### 3. Pre-Installation Inspection

3.1. Examine the unit for any damage, which may have occurred during shipping. Check the unit to ensure it meets your application's requirements, such as shaft fit and ratio. In addition, make sure all parts are clean and free of any foreign material prior to assembly.

### 4. Mounting and Installation Procedure

4.1. **⚠️ WARNING** Whenever attempting to install this type of product, it is strongly recommended that the motor be put in a safe condition (poweroff) prior to servicing. Failure to follow the instructions in this manual may result in product damage, equipment damage, and serious or fatal injury to personnel.

4.2. **Preparation** - Degrease motor shaft, input hub, bushing and mounting surfaces.

4.3. **Bushing Installation** - Slide the provided bushing into the input hub and align the slot in the bushing with the slot in the hub (a bushing may not be required or may already be installed).

4.4. **Hub Positioning** - Rotate the hub to align the access holes with the hub clamping bolts.

4.5. **Motor Orientation** - Set the motor on a work surface or holding fixture with the OUTPUT SHAFT FACING STRAIGHT UP. Mounting the gearhead to the motor in any other orientation will usually lead to misalignment, a load on the input bearing and excessive noise. Note: Once mounted, the gearhead can be used in any orientation.

4.6. **Keyway** - If there is a keyway on the motor shaft, remove the key, align the keyway with the slot in the hub and slide the gearhead down onto the motor shaft (it is normal and by design that the RediMount pilot bore is oversized compared to the motor pilot).

4.7. **Pre-Torque Hub Bolt Tightening** - Tighten BOTH hub bolts to the pretorque value indicated on Table 5.1.

4.8. **Bolt Gearhead to Motor** - Bolt the gearhead to the motor using the provided hardware.

4.9. **Final Torque Hub Bolt Tightening** - Gradually tighten the hub bolts in three steps, increasing the torque each time. The final torque of the hub bolts should be consistent with the value indicated in Hub Bolt Tightening Torques Table 5.1

### 5. Hub Bolt Tightening Torques

#### 5.1. Torque Table

Gearhead Model	Gearhead Frame Size	Pre-Tightening Torque		Final Tightening Torque	
		in.-lb.	[Nm]	in.-lb.	[Nm]
NemaTRUE™ NemaTRUE 90	23/60	2	0.2	39	4.4
	34/90	4	0.4	76	8.5
	42/115	16	1.8	316	36.0
DuraTRUE™ DuraTRUE 90	060	2	0.2	39	4.4
	090	4	0.4	76	8.5
	115	16	1.8	316	36.0
UltraTRUE™ UltraTRUE 90	006	2	0.2	39	4.4
	075/090	4	0.4	76	8.5
	010/115	16	1.8	316	36.0
ValueTRUE™ ValueTRUE90	014	32	3.6	636	72.0
	018/022	55	6.3	1104	125.0
XTRUE™ (XT/XTA)	040/050	0.5	0.05	9.6	1.09
	060/070	2	0.2	39	4.4
	080/090	4	0.4	76	8.5
	120	16	1.8	316	36
	160	32	3.6	636	72

Right angle versions of units above will use same mounting procedure and tightening torques.

### 6. Maintenance

6.1. All Micron planetary gearheads are grease filled and lubricated for life with no maintenance required.

### Micron Product Overview

Micron has the largest selection of True Planetary gearhead products in the world. With over 2000 size and ratio combinations to choose from, Micron will have the gearing solution for almost any application. Even with all of standard products to choose from in the catalog, Micron welcomes modification requests to existing designs as well as “white sheet of paper” custom opportunities. See **Boston Gear Micron TRUE Planetary® Gearheads Catalog P-8741-BG** for our full product line.

### Sales and Service

We are committed to quality customer service. In order to serve in the most effective way, please contact your local sales representative for assistance. If you are unaware of your local sales representative, please contact us.

**Customer Service: 1-800-825-6544**  
**Application Support: 1-800-816-5608**

## Micron Warranty

Boston Gear warrants that products manufactured or sold by it shall be free from defects in material and workmanship. Micron gearhead products which shall within one (1) year of delivery, be proved to the Company's satisfaction to have been defective at the time of delivery in these respects will be replaced or repaired by the Company at its option. Freight is the responsibility of the customer. The Company's liability under this limited warranty is limited to such replacement or repair and it shall not be held liable in any form of action for direct or consequential damages to property or person. THE FOREGOING LIMITED WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER, EXPRESS, IMPLIED AND STATUTORY AND INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.

No employee, agent, distributor, or other person is authorized to give additional warranties on behalf of Boston Gear, nor to assume for Boston Gear any other liability in connection with any of its products, except an officer of Boston Gear by a signed writing.



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