

## Powerbrace Aluminum Lockrods

*Powerbrace offers a 3/4-inch aluminum lockrod with the following advantages:*

- *Lightweight*
- *Visually appealing*
- *Zero-torque style*
- *No rust*
- *Can be ordered three ways*



NH-3/4-inch aluminum lockrod is available 3 ways: Custom Manufactured, Top End Loose or as an Assembly Kit and Tubing.



NH Kit P50710

Powerbrace offers an aluminum lockrod for both performance and high-end appearance. This lockrod is ideal for applications that require high-end appearance, such as horse, utility and stock trailers.

The NH-3/4-inch aluminum zero-torque lockrod has all the benefits of other Powerbrace lockrods, but with specific advantages.

### *Lightweight and Attractive*

The Powerbrace aluminum lockrod gives a high-end appearance to side and rear swing doors on trailers that are specific to light and medium duty applications.

The standard option is plain aluminum finish, but lockrods are also available in an optional electropolished finish, which gives the look of polished stainless at a fraction of the cost.

### *Easy Welding*

Making lockrods from Powerbrace aluminum lockrod kits is easy because the lever mount, cams and tubing are the same material: 6061 aluminum. This is a readily weldable material, and with all components made of the same grade of aluminum, the welds are of the highest quality. Competitive lockrod kits use components made from dissimilar grades of aluminum, which may cause issues when welding.

With Powerbrace aluminum lockrods, the welds are on the back side of the lockrod, and thus do not show when the door is closed. This gives a cleaner, more attractive appearance.

### *Zero-Torque Design*

Powerbrace NH-3/4 lockrods use the zero-torque cam and keeper. With this design, the more pressure applied to doors from the inside, such as pushing from livestock, or shifting of a load, the tighter the cam and keepers engage.

For further information about the Powerbrace Zero-Torque design, please refer to **Technical Bulletin #7**.

## Powerbrace Aluminum Lockrods *(continued)*

### **Smooth Lockrod Rotation**

Powerbrace NH-3/4 lockrods rotate within Acetal™ bearings, which results in smooth rotation. The snap-in bearings are mounted inside the rod guides. Unique to Powerbrace, these bearings assure a smooth, consistent feel when opening and closing doors, while eliminating corrosion. Other brands use aluminum brackets, which means the lockrod rotates, aluminum on aluminum, which may result in galling and rough operation.

### **Cam Shoulders up to Mounting Brackets**

Powerbrace aluminum lockrods are designed to allow the mounting brackets to be mounted against the cam shoulders. Mounting in this way "captures" the lockrod in up-and-down movements. Other brands do not have this feature, meaning the lever must be captured to prevent unwanted vertical movement.

Cams are made of forged aluminum. They provide superior strength, unlike commonly used cast cams, which are prone to breaking and cracking.

### **Lockrods Available in Three Forms**

Powerbrace NH-3/4 lockrods can be ordered three ways:

- Custom manufactured. Factory assembled lockrod custom-made to exact requirements. Both the cams and the riveted handle assembly are factory-welded. You just add mounting hardware.
- Top End Loose. A manufactured lockrod with the bottom cam and the riveted handle assembly factory welded into place. You cut the tube to the desired length, weld on top cam, and mount with hardware kit.
- Assembly Kit and Tubing. Lockrod assembly kits include all the components needed to build one lockrod. You do the welding. Tubing sold separately.

### **What Is the Most Important Fact about Aluminum Lockrods?**

The Powerbrace NH-3/4 aluminum lockrod is a lightweight, attractive, well-designed lockrod for light to medium-duty trailers where weight is a factor.



#### **For Further Information:**

For additional information or questions about Powerbrace hinges, call our Customer Service Department at **262.697.5328**.



#### **Check Our Web Site**

Additional information is available at **[www.powerbrace.com](http://www.powerbrace.com)**.



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