

## ExactoTorque™ Another Innovation from ACI

A large number of rod and nut failures are the result of inaccurate pre-stress.

ExactoTorque™ is the ACI patented solution to address this issue.

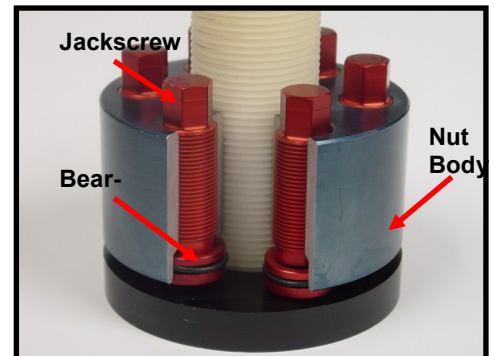


### The Age Old Problem – Achieving Proper Torque

- Most piston rods a pre-stress torque of 30,000 psi.
  - Conventional methods generally utilize a large hex nut, which is difficult to tighten.
  - Proper installation of the hex nut requires unwieldy and sometimes hazardous application tools.
  - Improper assembly loads are common.
- Galling between the nut face and crosshead face is very common as the two surfaces turn against one another.
  - Galling can lead to subsequent loss of crosshead face squareness, resulting in excessive rod bending.
  - Consequential effects can lead to rod failures, packing leakage and wear, cylinder bore and piston scuffing, and loss of crosshead tightness.

### The Proven Solution – ExactoTorque™

- **How it Works**
  - Jackscrews threaded through a nut body and seated on individual bearing pads.
  - Each pad has a spherical surface that allows proper alignment with the jackscrew.
  - Proper preload accurately achieved through the combined applied torque load of each jackscrew.
- **Improved Rod Stretch**
  - Rod stretch enhanced by the counter-bore at the mating surface end of the nut.
- **Pre-stress without Rotation**
  - Rotation of the hex nut contributes to nut and rod damage due to galling.
  - ExactoTorque™ achieves proper torque without rotation.
- **Ease of Installation**
  - ExactoTorque™ simply spins on to the rod.
  - Jackscrews are torqued to predetermined load using standard torque wrenches.
- **Proven in the Field**
  - Field proven for over 25 years.
  - Also effectively used with foundation bolts, and Coupling bolts



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