

# HYDRAULIC CYLINDER MANUFACTURER

## INDUSTRY

Construction, Agricultural and Mining

## PRODUCT

Piston Rod

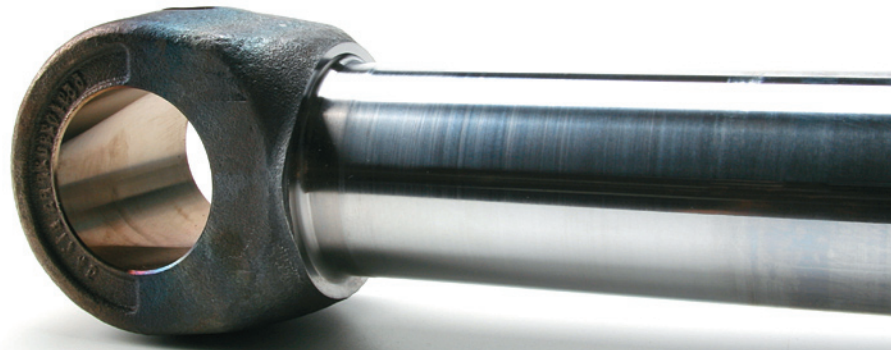
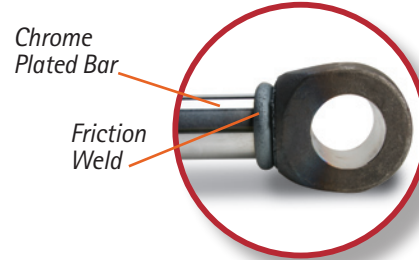
## APPLICATION

Hydraulic Cylinder

**CHALLENGE:** A joint in a piece of construction equipment needed to increase its strength without accruing additional costs of preparation, welding and machine finishing.

**SOLUTION:** Utilizing The Friction Welding Advantage, American Friction Welding helped the customer realize a 15% cost savings and 20% increase in overall piston rod strength by employing the following:

- Friction welding induction hardened chrome-plated rod to forged eye, creating a joint with tensile and yield properties equal to parent materials throughout weld area
- Reduced overall machining time by 15% by pre-machining both rod and forged eye prior to friction welding
- Neither rod nor forged eye required special weld preparation



**CONCLUSION:** American Friction Welding application specialists work closely with you throughout your project. Design engineering assistance, process analysis and testing gives you the ultimate cost solutions. Add comprehensive post-production KanBan inventory and logistical support services and you're surrounded with The Friction Welding Advantage from AFW!

**Contact us today to discuss your application in confidence and save with our unique capabilities!**



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