Nye Manufacturing Ltd.

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Custom Attachments for Heavy Equipment, Welding Repairs and Alterations

Instructions for changing Nye retainer type bushings.

Some Nye Contractors Grapples and Concrete Pulverizers feature special hardened steel or aluminum-bronze pivot bushings that double as retainers. These retainers are designed to keep the Grapple or Pulverizer halves together when the main pin is removed during mounting and dismounting.

Installing Bushings

IMPORTANT: Read all these instructions before starting.
The bushings should be pressed in from between the bosses of the moving side of the Grapple or Pulverizer with a portable hydraulic jack.

- Lubricate the bushings and get them started by tapping them into the bosses, stepped end first, with a flat plate and a sledgehammer. DO NOT TRY TO DRIVE THE BUSHINGS ALL THE WAY AT THIS TIME.
- Assemble the Grapple or Pulverizer using the main pin and the back pin (or a test shaft) inserted partway in from each side. (Two pins are required to maintain correct boss alignment during bushing installation).
- Using a suitable jack and spacers between, press both bushings in at the same time. The stepped portions of the bushings will protrude past the end of the bosses and should loosely engage the recesses in the fixed half of the Grapple or Pulverizer.

Removing Bushings

WARNING: The bushings are designed to hold the Grapple or Pulverizer halves together when the main pin is removed. The halves could move apart suddenly causing damage to property, injury or death, if the bushings are damaged or removed.

- Block-up and support the Grapple or Pulverizer as required so both halves are stable and cannot move when the bushings disengage the recesses.
- Install the main pin partway in one side to limit movement of the halves during removal of the bushing on the opposite side.
- Collapse the bushing using heat by running several beads of weld axially along the inside. (the bushing will be destroyed during removal)
- Weld a suitable plate inside the bushing to provide a surface to push against.
- Tap the bushing toward the center from the outside using a sledgehammer and suitable pin pusher.
- Insert the back pin or a spare pin through the bosses before removing the main pin and repeating the process on the other side.

For more help with this or any other Nye product please call engineering at (905) 897-2311