

ACCESSORIES—JOYCE ANTI-BACKLASH DEVICES

Joyce Anti-backlash Devices compensate for thread wear to reduce screw endplay

Split Gear Design

Best suited for light dynamic loads (1/3 jack capacity or less) and full jack capacity in a static condition. A split gear and dowel pins maintain gear alignment. Adjustments to this unit are made by tightening the sleeve (housing) cap. This design will typically reduce screw endplay to .010-.015 inches. Typical applications include steel mill and paper mill roll actuators. The Split Gear Design is available in all upright and inverted Translating and Traveling Nut machine screw jacks from 2 to 75 tons as well as some Keyed models. This unit can be ordered by using an “A” designation at the end of the jack model number.

Ordering Information: See page 164

A90 Design

Ideal for medium dynamic loads (1/2 to 3/4 jack capacity) and full jack capacity in a static condition. This design incorporates a hardened steel plate pinned to the top of the internal gear and a secondary nut placed above the steel plate. Pressure to separate the gear and secondary nut is applied via dog point set screws placed around the secondary nut. The set screws are externally adjustable. This design will typically reduce screw endplay to .008-.012 inches. Typical applications include antenna and solar dish actuators. The A90 Design is available in upright Translating machine screw jack models from 25 to 100 tons. This unit can be ordered by using an “A90” designation at the end of the jack model number.

Ordering Information: See page 164

A95 Design

Patent pending A95 design is capable of handling full jack capacity in dynamic as well as static conditions. This adaptation of the split gear design allows the gear teeth to remain intact and therefore retain their full load carrying capability. Adjustments are made by tightening the sleeve (housing) cap. The A95 design will typically reduce screw endplay to .008-.012 inches. This design can be used for any application requiring minimized screw endplay under full dynamic capacity. It is available in upright and inverted Translating machine screw jack models from 2 to 150 tons. This unit can be ordered by using an “A95” designation at the end of the jack model number.

Ordering Information: See page 164

