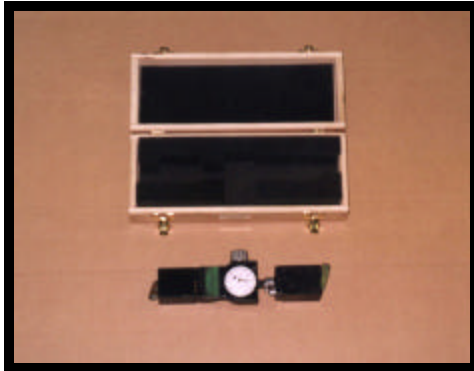


## PRODUCT DATA SHEET

*MODEL D WITH DIAL INDICATOR*



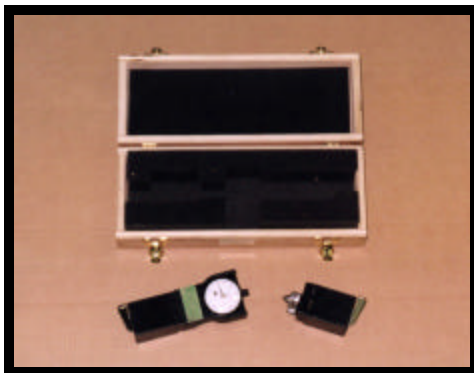
*MODEL D WITH DIGITAL INDICATOR*



## TIE BAR STRAIN GAGE

The unique Shamrock Tie Bar Strain Gage helps eliminate tie bar breakage, die spitting, and toggle pin wear by enabling you to adjust your machine for maximum locking tonnage. It also allows setting tie bar tension for equal lockup at reduced tonnage for small dies mounted in large die casting machines or for unequal lockup for dies mounted off-center. Simple to operate, the Tie Bar Strain Gage is attached with lever-engaged magnetic clamps and provides a direct read-out of relative tension in each tie bar. The Tie Bar Strain Gage can also be used to adjust two- and four-post trim press locking tonnage.

*MODEL DA 2-PIECE  
WITH DIAL INDICATOR*



*MODEL DA 2-PIECE  
WITH DIGITAL INDICATOR*



Units pictured are for 100 ton and over and require 14" of bar space. Units are available in each Model for 10-99 ton machines that require 10" of bar space.

# SHAMROCK TIE BAR STRAIN GAGE

## UNIQUE DESIGN FEATURES:

The dial indicator and NEW! electronic digital indicator accurately reads stress on tie bars so they can be adjusted for equal stress and maximum safe locking tonnage. The magnetic bases attach firmly to the tie bar when aligned with the tie bar axis. A simple on/off lever on each magnetic base controls the attachment force between the base and the tie bar being tested. A convenient zeroing lever on the dial gage (zeroing button on the electronic gage) sets the indicators to "0" prior to usage and between tests.

## SIMPLE OPERATION:

- Place the gage on the tie bar and flip the magnet control levers to engage the magnetic clamps for a firm attachment.
- (Model D) Release the actuator lock knob.  
(Model DA) Push the two halves firmly together.
- Set the dial or digital indicator using the zeroing lever.
- Clamp the dies in the closed and locked position.
- Read the indicated strain measurement on the dial or digital indicator.
- (Dial) Zero the gage with the zeroing lever between cycles.  
(Digital) Depress the zero button on the indicator between cycles.
- Note: For most applications, the dial indicator will provide a direct reading of stress in thousands of pounds per square inch. The operating manual contains detailed instructions for interpreting the dial readings in unusual situations.
- Repeat the operational steps above for each of the tie bars, making adjustments until the tie bar strain gage indicates uniform stress on all of the tie bars.
- (Digital) Optional remote readouts are available in either 110VAC version or battery powered.

## CONVENIENT:

The Shamrock Tie Bar Strain Gage is so simple to use that even inexperienced operators can obtain accurate readings quickly. For even quicker set-ups multiple gages may be used, with one mounted on each tie bar. Having a strain gage mounted on each tie bar drastically reduces set-up time by providing simultaneous stress readings. A hand-crafted oak carrying case is included to provide protection for the Tie Bar Strain Gage when not in use. Double boxes are available for multiple gage storage.