HEAVY LIFT 25 TON ROD ELEVATOR
Operators Manual

553-575-100
1-1/8 inch Sucker Rod

553-575-200
Plate Type 1 to 1-1/4 inch Sucker Rod

553-575-300
1-1/4 inch Polish Rod

553-575-500
Plate Type 5/8 to 1 inch Sucker Rod

553-575-800
1-1/2 inch Polish Rod

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Thank-you for choosing Trico. We at Topco Oilsite Products design and build Trico equipment with you, the customer in mind.

To help ensure trouble-free operation of your equipment, read this manual carefully and follow its recommendations.

An authorized Topco facility knows your equipment best. So when maintenance or service is necessary, that’s the place to go.

**General Cautions and Warnings**

Maximum working load indicates the greatest force or load a product can carry under usual environmental conditions. Shock loading and extraordinary conditions will reduce the maximum working load rating. The maximum working load rating may also be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration, and other use conditions.

Regular inspection shall be conducted to determine whether use can be continued at the maximum working load rating, a reduced maximum working load rating, or whether the product shall be withdrawn from service.

**Important Notes About This Manual**

All specifications and descriptions are accurate at the time of printing. Because continuous improvement is a goal at Topco, we reserve the right to make changes in specifications at any time without notice and without obligation.

*Please be aware that this manual applies to all models, equipment, and options. As a result, you may find some explanations not applicable to your equipment.*

**Quality**

If you have any questions, concerns, or feedback regarding the quality of our products and services please contact us.

**Safety**

Ensure equipment is operated in accordance with all government, regulatory and employer requirements.

**Markings**

- ![X](image) This symbol in the manual means “Do not let this happen.”
- ![Temp](image) This symbol means a minimum operating temperature of -20°C (-4°F).
- ![Temp](image) This symbol means a minimum operating temperature of -46°C (50°F).
- ![Warning](image) This symbol means failure to comply may result in damage or injury.
A. 2x Link
   553-548-500

B. 2x Spring
   553-549-010

C. 2x Plate Drive Pin
   553-548-900

D. 4x Solid Drive Pin (2x Plate Type)
   553-766-100

E. 4x Plate Screw
   553-554-000A

F. 4x Link Pin
   553-551-400

G. 2x Retaining Ring
   553-551-800

H. 2x Front Latch
   553-551-500

   2x Front Latch (Polish & Fibreglass Rod)
   553-551-501

I. 2x Rear Lever
   553-551-000

J. 2x Plate
   553-550-000 (5/8-3/4)
   553-550-200 (3/4-7/8)
   553-550-700 (1)
   553-550-750 (1-1/8)
   553-550-800 (1-1/4)
### Critical Area Drawing

#### Wear Limits

<table>
<thead>
<tr>
<th></th>
<th>Trunnion</th>
<th>Trunnion Hole</th>
<th>Hook Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Ø</td>
<td>40 mm (1.57 in)</td>
<td>Maximum Ø</td>
<td>Minimum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>44 mm (1.73 in)</td>
<td>40 mm (1.57 in)</td>
</tr>
</tbody>
</table>

#### Critical Area

- **Body**
  - **Plate Type**
  - **Solid Body**

- **Trunnion**

#### Bail

- **Hook Seat**
- **Trunnion Hole**
WARNING: Failure to follow these directions could result in damage or injury.

- Trico Rod Elevators are designed to elevate fibreglass, polished, pony and sucker rods. Never use them for any other purpose.
- Only lift rods in a vertical direction using the hook seat.
- Never use a plate type elevator without a plate and plate screws.
- Never use an elevator with an incorrect sized rod upset or rod size.
- Never exceed the maximum working load of the Elevator.
- Never operate below the minimum operating temperature.

Heavy Lift New Equipment Specifications

- Maximum Working Load: 25 short tons (50,000 lbs).
- Minimum Operating Temperature: -46°C (-50°F).

Before Each Use

- Ensure the bail freely rotates in both directions, and is tightly secured to the body.
- Inspect the retaining rings, front latches and plates for damage.

Inserting and Removing Elevators

Engage either the front latch or rear lever (A) to insert and remove a rod (B).
**Recommended Maintenance Practice**

API Recommended Practice 8B and CAODC Recommended Practice 4.0 are approved for the maintenance of Trico Rod Elevators. At a minimum, it is recommended that all Category/Level III and IV maintenance be conducted at an authorized Trico inspection facility.

**Recommended Maintenance Schedule**

This schedule is a guide only. The equipment owner/operator should consider the following factors when building a maintenance schedule; environment, load cycles and operating time.

<table>
<thead>
<tr>
<th>Category Level</th>
<th>Type</th>
<th>Rate</th>
<th>Method</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Visual</td>
<td>–</td>
<td>1 day (Daily)</td>
<td>• Observation during operation</td>
</tr>
<tr>
<td>II</td>
<td>Visual</td>
<td>1 day (Daily)</td>
<td>7 days (Weekly)</td>
<td>• Cracks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Loose connections</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Yielding</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Wear</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Corrosion</td>
</tr>
<tr>
<td>III</td>
<td>Physical</td>
<td>6 months (Bi-annually)</td>
<td>1 year (Annually)</td>
<td>• NDT of critical areas</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Wear limits</td>
</tr>
<tr>
<td>IV</td>
<td>Disassembly</td>
<td>1 year (Annually)</td>
<td>6 years</td>
<td>• Inspection at an authorized Trico facility</td>
</tr>
</tbody>
</table>

**Contact Information**

Contact Topco to locate an authorized Trico inspection facility.