Eckel Manufacturing Co., Inc. is a leading world-wide manufacturer of hydraulic power tongs. Founded in 1958 when Emery L. Eckel revolutionized hydraulic power tongs by chalking out his hydraulic power tong design on the floor. Since then Eckel now manufactures 40 models of hydraulic power tongs for the oil & gas industry. We offer a full line of hydraulically operated tubing tongs, casing tongs, drill pipe tongs, backups, power units and tong positioning equipment.

Every job is different. Eckel has a variety of tong models to meet your requirements.

Eckeldesigns and manufactures a variety of tong models and sizes (2 3/8 to 36 in.) to handle almost any downhole pipe string. Majority of our tongs come with the following features: latchless radial lock door, wrap-around dies, and solid hanger.

Optional equipment to improve your tubular running experience include: door interlock (automatically stops tong operation when the tong door is open), door guards (a safety feature for removing pinch points), lift cylinder, spring hanger, torque gauge, torque/turn system, hydraulic integral backup, tong automation, tong positioning and hydraulic power units.
Eckel Quality:
Eckel’s ground-breaking designs, quality, and rugged durability have won us a world-wide reputation of a first-class product that insures years of trouble free service and are available in a varying models and size to handle any tubular string, from rods to casing.

Certifications - Eckel hydraulic power tongs can be manufactured to variety of certifications such as Det Norske Vertias (DNV) and American Bureau of Shipping (ABS). Certification provides the required independent assurance that our equipment arrives at site, designed, and manufactured to specification and are in compliance with relevant regulatory and safety requirements.

Product Testing - Tongs and power units are performance rated to insure they meet our quality control standards. Equipment is inspected, greased and adjusted to our high quality standards. Every tong is performance rated on a one of a kind test stand that simulates make-up and break-out torque in a variety of different loads. Eckel supplies a test certificate upon request for tongs and power units that certify the equipment meets or exceeded our high quality standards and performance ratings.

Manufacturing Facility:
Essentially every part of our tongs and power units are designed and manufactured by Eckel, using the latest design tools and numerically controlled machines to exacting tolerances.

Quality Management System - Eckel’s manufacturing operation ensures the utmost quality at our facilities in Odessa, Texas which covers Eckel Manufacturing, Co., Inc., Eckel International Inc. and Eckel Heat Treat Co.
Eckel has a long standing commitment to:

- To put customer’s needs first.
- To produce world class oil field tools and equipment that is of the highest quality in the industry.
- To provide a safe and efficient work environment for our people.
- Continual quality improvement and total quality management are integral to the Eckel Manufacturing Company policy.
Design and CNC Machining - Eckel utilizes the latest computer aided design programs, numerically controlled and automated machining tools in our manufacturing process. Products are designed to provide the maximum safety while also maximizing productivity and reliability. Eckel will custom design a product for whatever your application requires.

Eckel Heat Treating - Heat treating is one of the most important steps in the production of a part, providing a combination of hardness, strength, and toughness. The parts are heated and quenched in a controlled carbon enriched atmosphere to insure part uniformity to meet Eckel’s high quality standards.

Eckel Remote Operated Tongs

Eckel Remote Operated Tongs provides a method of controlling they hydraulic power tong from a remotely located console for make-up and break-out operations. The tong is based upon the standard tong and backup configuration with the exception of hydraulic cylinders installed on the unit for remote control of the operational functions of the tong and backup. These functions include the tong door, backing pin, mechanical gear shift. Power tong rotation, motor speed, and backup gripping are also configured for remote operation. The Remote Operated Tongs use a total hydraulic system with no electrical or electronic devices included.

**Model 2³/₈ Hydra-Shift®**

The lighter, smaller 2³/₈ Hydra-Shift® Tong.
Less is definitely more.

The Oil & Gas Industry has needed a specialized power tong with an integral hydraulic backup. This tong is sized enough with the right amount of controllable torque output. It is designed so as to properly grip small tubulars such as small macaroni type strings of tubing.

<table>
<thead>
<tr>
<th>Tong Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tong Capacity</td>
<td>1.050 - 2 ¼ in. (26.7 - 60.3 mm)</td>
</tr>
<tr>
<td>Backup Capacity</td>
<td>1.050 - 3 ¼ (26.7 - 77.8 mm)</td>
</tr>
<tr>
<td>Dimensions:</td>
<td></td>
</tr>
<tr>
<td>Tong Only</td>
<td>16 x 41.5 in. (406.4 x 1054.2 mm)</td>
</tr>
<tr>
<td>Tong and Backup</td>
<td>23 x 41.5 in. (584.2 x 1054.2 mm)</td>
</tr>
<tr>
<td>Weight: (1)</td>
<td></td>
</tr>
<tr>
<td>Tong Only</td>
<td>500 lb. (226.8 kg)</td>
</tr>
<tr>
<td>Tong and Backup</td>
<td>825 lb. (374.2 kg)</td>
</tr>
<tr>
<td>Maximum Torque</td>
<td></td>
</tr>
<tr>
<td>@ 1000 PSI (67 bar)</td>
<td>2,500 ft-lb (3389.5 Nm)</td>
</tr>
<tr>
<td>@ 1200 PSI (83 bar)</td>
<td>3,200 ft-lb (4338.6 Nm)</td>
</tr>
<tr>
<td>Maximum RPM @ 40 GPM (152 LPM)</td>
<td></td>
</tr>
<tr>
<td>High: 80 rpm</td>
<td>Low: 37 rpm</td>
</tr>
<tr>
<td>Load Cell Type</td>
<td>Compression or Tension</td>
</tr>
<tr>
<td>Handle Length</td>
<td></td>
</tr>
<tr>
<td>Tong Only</td>
<td>15.6 in. (396.2 mm)</td>
</tr>
<tr>
<td>Tong and Backup</td>
<td>19 in. (482.6 mm)</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE and DNV Optional</td>
</tr>
</tbody>
</table>

(1) Weight Approximate
**Model 3500 Hydra-Shift® DTT**

The Eckel 3500 Hydra-Shift® DTT (Dual Tubing Tong) provides fast, easy running on dual strings of 3½ inch or smaller tubing. It grabs from the side, or head-on. Torque it up! This tong is Eckel tough. Speed shifting are no problem, thanks to a patented Hydra-Shift® concept that eliminates clutching.

**Tong Specifications**
- **Capacity**: 1.050 - 3½ in. (26.7 - 88.9 mm)
- **Dimensions**: 13.5 x 32 in (342.9 x 812.8 mm)
- **Weight**: 800 lb. (362.9 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - Low: 7,000 ft-lb (9491 Nm)
  - High: 3,500 ft-lb (4745 Nm)
- **Maximum RPM @ 40 GPM (152 LPM)**
  - High: 65 rpm
  - Low: 30 rpm
- **Optional RPM Control**
  - High: 5 rpm
  - Low: 2.5 rpm
- **Handle Length**: 24 in. (609.6 mm)
- **Certifications**: CE and DNV Optional

**Wedge Drive Tri-Grip® Backup Specifications**
- **Capacity**: 1.050 - 4½ in. (26.7 - 114.3 mm)
- **Dimensions**: 21.5 x 45 in (546.1 x 1143 mm)
- **Weight**: 800 lb. (362.9 kg)
- **Maximum Torque @ 2,000 psi (138 bar)**
  - High: 1,800 ft-lb (2440 Nm)
  - Low: 6,900 ft-lb (9355 Nm)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - High: 2,500 ft-lb (3390 Nm)
  - Low: 7,500 ft-lb (10169 Nm)
- **Maximum RPM @ 40 GPM (152 LPM)**
  - High: 105 rpm
  - Low: 30 rpm
- **Handle Length**: 24.5 in. (622.3 mm)
- **Certifications**: CE and DNV Optional

**Model 4½ Hydra-Shift®**

Packed with all the features you’ve come to expect from Eckel: patented cam biting system, quick-change sliding heads, self-aligning open throat, and auto closing door. The unit is available with front or side controls, standard chain bridle suspension, or with its own built-in suspension arm. Options include manual backup or Tri-Grip® hydraulic backups.
Model 41/2 UHT-13 and UHT-20

Light weight and rugged the UHT-13 configuration provides 8,500 ft-lb of torque. A notable feature quick-change sliding head biting system that compensates for worn or under gauge pipe. Options include manual backup or Tri-Grip® hydraulic backups. Slide heads with rig dies are available on the UHT-20 for handling drill pipe tool joints.

Model 5 1/2 Standard

The Model 5 1/2 is the first open-throat design in its size range to generate 12,000 ft-lb of available torque. Versatility is the name of the game here as this tong works well whether powered by a workover rig or a portable casing tong power unit. An optional Tri-Grip® hydraulic backup is available.

Model UIHT-13 and UHT-20 Tong Specifications

| Capacity          | 1.050 - 4 1/2 in. (26.7 - 114.3 mm) |
| Rod Size          | 1/2 - 1 1/2 in. (15.9 - 28.6 mm)    |
| Dimensions        | 23 1/2 x 42 1/2 in. (596.9 x 1079.5 mm) |
| UIHT-13 Weight    | 900 lb. (408.2 kg)                  |
| UIHT-20 Weight    | 1000 lb. (453.6 kg)                 |

UHT-13 Maximum Torque

@ 2,000 PSI (138 bar)
- High: 2,000 ft-lb (2712 Nm)
- Low: 7,000 ft-lb (9491 Nm)

@ 2,500 psi (172 bar)
- High: 2,500 ft-lb (3390 Nm)
- Low: 8,500 ft-lb (11524 Nm)

UHT-13 Maximum RPM

- @ 65 GPM (246 LPM): High: 191 rpm, Low: 49 rpm
- @ 50 GPM (189 LPM): High: 147 rpm, Low: 38 rpm
- @ 40 GPM (151 LPM): High: 117 rpm, Low: 30 rpm

UHT-20 Tong Specifications

| Capacity          | 1.050 - 5 1/2 in. (26.7 - 141.3 mm) |
| Rod Size          | 1/2 - 1 1/2 in. (15.9 - 28.6 mm)    |
| Dimensions        | 28 1/2 x 45 1/2 in. (723.9 x 1155.7 mm) |
| Weight            | 1,800 lb. (816.5 kg)                |
| Load Cell Type    | Compression or Tension             |
| Handle Length     | 25 in. (635.0 mm)                   |

(1) Weight Approximate, (2) Tong and Backup

Tong Specifications

| Capacity          | 2 1/2 - 5 1/2 in. (52.4 - 139.7 mm) |
| Rod Size          | 1/2 - 1 1/2 in. (15.9 - 28.6 mm)    |
| Dimensions        | 25 x 54 in. (635 x 1371.6 mm)       |
| Weight            | 980 lb. (444.5 kg)                  |
| Maximum Torque    | @ 2,500 psi (172 bar)               |
| High              | 2,800 ft-lb (3796 Nm)               |
| Low               | 12,000 ft-lb (16270 Nm)             |
| Maximum RPM       | @ 65 GPM (246 LPM)                  |
| High              | 125 rpm                             |
| Low               | 25 rpm                              |
| Handle Length     | 36 in. (914.4 mm)                   |
| Certifications    | CE and DNV Optional                 |
| Tri-Grip® Hydraulic Backup

| Capacity          | 2 1/2 - 5 1/2 in. (52.4 - 141.3 mm) |
| Rod Size          | 1/2 - 1 1/2 in. (15.9 - 28.6 mm)    |
| Dimensions        | 29.5 x 54 in. (749.3 x 1371.6 mm)   |
| Weight            | 1,900 lb. (861.8 kg)                |
| Load Cell Type    | Compression or Tension             |
| Handle Length     | 28.5 in. (723.9 mm)                 |

(1) Weight Approximate, (2) Tong and Backup
Model 5 1/2 HS UHT

Extremely popular among the most successful of pipe handlers, the Model 5 1/2 HS UHT combines high torque (up to 32,000 ft-lb) with a wide capacity range. Ideal for handling tubing, casing and small drill pipe. An optional WD Tri-Grip® hydraulic backup is available. Slide heads with rig dies are available for handling drill pipe tool joints.

Tong Specifications
- Capacity: 2 1/16 - 5 1/2 in. (52.4 - 139.7 mm)
- Dimensions: 32 x 54 in. (812.8 x 1371.6 mm)
- Weight: 1,900 lb. (861.8 kg)
- Handle Length: 32.5 in. (825.5 mm)
- Certifications: CE and DNV Optional

5 1/2 HS UHT
- Maximum Torque @ 2,500 psi (172 bar):
  - High-High: 3,900 ft-lb (5288 Nm)
  - High-Low: 7,800 ft-lb (10575 Nm)
  - Low-High: 17,500 ft-lb (23727 Nm)
  - Low-Low: 32,000 ft-lb (43386 Nm)
- Maximum RPM @ 65 GPM (246 LPM):
  - High-High: 104 rpm
  - High-Low: 52 rpm
  - Low-High: 20 rpm
  - Low-Low: 10 rpm

WD Tri-Grip® Hydraulic Backup
- Capacity: 2 1/16 - 5 1/2 in. (52.4 - 139.7 mm)
- Dimensions: 38.5 x 56 in. (978 x 1422.4 mm)
- Weight: 3,000 lb. (1360.8 kg)
- Load Cell Type: Compression or Tension
- Handle Length: 32.5 in. (825.5 mm)

Model 5 1/2 HS LS

Our 5 1/2 Hydra-Shift® is sized smaller in width than our 5 1/2 Standard model. Like all of our newly developed tongs, the 5 1/2 incorporates the Hydra-Shift® technology, allowing the operator to shift from high speed to low speed without having to manually shift the tong. You will see many years of trouble free operation, not to mention the smoother hydraulic shifting.

Tong Specifications
- Capacity: 2 1/16 - 6 0.050 in. (52.4 - 153.7 mm)
- Dimensions: 24 x 49 in. (609.6 x 1244.6 mm)
- Weight: 1,340 lb. (607.8 kg)
- Maximum Torque @ 2,000 psi (138 bar):
  - High: 7,000 ft-lb (9491 Nm)
  - Low: 15,000 ft-lb (20337 Nm)
- Maximum Torque @ 2,500 psi (172 bar):
  - High: 9,000 ft-lb (12202 Nm)
  - Low: 17,000 ft-lb (23049 Nm)
- Maximum RPM @ 40 GPM (151.4 LPM):
  - High: 45 rpm
  - Low: 20 rpm
- Handle Length: 28.5 in. (723.9 mm)
- Certifications: CE and DNV Optional

5 1/2 HYDRA-SHIFT® LS with Tri-Grip® Hydraulic Backup

5 1/2 HYDRA-SHIFT® with WD Tri-Grip® Hydraulic Backup
**Model 5 1⁄2 Hydra-Shift® VS**

Our 5 1⁄2 Hydra-Shift® is sized smaller in width than our 5 1⁄2 Standard model. The 5 1⁄2 incorporates the Hydra-Shift® technology, allowing the operator to shift from high speed to low speed without having to manually shift the tong. You will see many years of trouble free operation, not to mention the smoother hydraulic shifting.

The 5 1⁄2 Hydra-Shift® VS comes with a two-speed motor and a two-speed gear train, this offers the operator a more flexible choice of torque/rpm’s to work with during make-up or break-out. The 5-1/2 HS VS is part of our CHROMEBOSS® series of tongs that is suitable for running corrosion-resistant alloy (CRA) tubulars and drill pipe tool joints (slide heads with rig dies).

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**Model 7 5⁄8 Standard**

The 7 5⁄8 Standard tong handles pipe sizes 2 3⁄8 inches all the way to 7 5⁄8 inch. Its rugged design is based upon knowledge gained from the 5 1⁄2 model...combining an extremely compact, high torque concept with added versatility. An optional Tri-Grip® hydraulic backup is available. Available torque: 15,000 ft-lb

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**Tong Specifications**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>2 1⁄8 - 5 1⁄2 in. (52.4 - 139.7 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>24 x 47 in. (609.6 x 1193.8 mm)</td>
</tr>
<tr>
<td>Weight [1]</td>
<td>1,370 lb. (621.4 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Torque @ 2,000 psi (138 bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-High</td>
</tr>
<tr>
<td>High-Low</td>
</tr>
<tr>
<td>Low-High</td>
</tr>
<tr>
<td>Low-Low</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Torque @ 2,500 psi (172 bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-High</td>
</tr>
<tr>
<td>High-Low</td>
</tr>
<tr>
<td>Low-High</td>
</tr>
<tr>
<td>Low-Low</td>
</tr>
</tbody>
</table>

**Maximum RPM @ 65 GPM (246 LPM)**

| High-Low | 164 rpm |
| Low-Low | 82 rpm |
| Low-High | 30 rpm |
| High-Low | 15 rpm |

| Handle Length | 28.5 in. (723.9 mm) |
| Certifications | CE and DNV Optional |

**Tri-Grip® Backup Specifications**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>2 1⁄8 - 6.050 in. (52.4 - 153.7 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions [2]</td>
<td>34 x 49 in. (863.6 x 1244.6 mm)</td>
</tr>
<tr>
<td>Weight [1]</td>
<td>1,900 lb. (861.8 kg)</td>
</tr>
</tbody>
</table>

| 5-1/2 HS VS | 2,300 lb. (1043.3 kg) |
| 5-1/2 HS LS | 2,170 lb. (984.3 kg) |

| Load Cell Type | Compression or Tension |
| Handle Length [2] | 28.5 in. (723.9 mm) |


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**5 1⁄2 HYDRA-SHIFT® VS**

**Model 7 5⁄8 Standard**

The 7 5⁄8 Standard tong handles pipe sizes 2 3⁄8 inches all the way to 7 5⁄8 inch. Its rugged design is based upon knowledge gained from the 5 1⁄2 model...combining an extremely compact, high torque concept with added versatility. An optional Tri-Grip® hydraulic backup is available. Available torque: 15,000 ft-lb

---

**Tong Specifications**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>2 3⁄8 - 5 1⁄2 in. (60.3 - 193.7 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>30 x 60 in. (762.0 x 1524.0 mm)</td>
</tr>
<tr>
<td>Weight [1]</td>
<td>1,100 lb. (499.0 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Torque @ 2,500 psi (172 bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Low</td>
</tr>
<tr>
<td>Low</td>
</tr>
</tbody>
</table>

| Maximum RPM @ 65 GPM (246 LPM) |
| High: 132 rpm |
| Low: 26 rpm |

| Handle Length | 36 in. (914 mm) |
| Certifications | DNV and ABS Optional |

**Tri-Grip® Backup Specifications**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>2 3⁄8 - 8 5⁄8 in. (60.3 - 219.1 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions [2]</td>
<td>30 x 60 in. (762.0 x 1524.0 mm)</td>
</tr>
<tr>
<td>Weight [1][2]</td>
<td>1,900 lb. (861.8 kg)</td>
</tr>
</tbody>
</table>

| Load Cell Type | Compression or Tension |
| Handle Length [2] | 28 in. (711.2 mm) |

## Model 7 5/8 HD / 7 5/8 HDS

When application demand a wide range of sizes, the 7 5/8 HD series of tongs handles pipe sizes 2-3/8 inches all the way to 7-5/8. Built around the 7-5/8 Standard, the 7 5/8 HD models provides a thicker rotary gear for more added strength, an additional idler gear, a larger pinion gear, and stronger bearings for load bearing capacity and durability.

The 7 5/8 HDS models are part of our CHROMEOSS® series of tongs that is suitable for running corrosion-resistant alloy (CRA) tubulars. The 7-5/8 HDS models uses a two-speed mechanical shift transmission in conjunction with the two speed Hydra-Shift® motor, providing the operator a very flexible choice of torque/RPM's to work with during make-up or break-out. Two slide heads in the tong provide a consistent radial load on the tubular, reduced tubular deformation, and when combined with our pyramid fine tooth or True Grit® wrap-around dies provides excellent gripping capabilities on corrosion-resistant alloy (CRA).

![Image of 7 5/8 HD / 7 5/8 HDS tong](image)

<table>
<thead>
<tr>
<th>Tong Specifications</th>
<th>Capacity</th>
<th>2½ - 7½ in. (60.3 - 193.7 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>29½ x 56½ in. (749.3 x 1435.1 mm)</td>
<td></td>
</tr>
<tr>
<td>Weight [1]</td>
<td>1,725 lb. (782 kg)</td>
<td></td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>2,500 psi (172 bar)</td>
<td></td>
</tr>
<tr>
<td>Maximum Torque @ 65 GPM (246 LPM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>4,500 ft-lb (6101 Nm)</td>
<td></td>
</tr>
<tr>
<td>Low-Low</td>
<td>20,000 ft-lb (27116 Nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum Torque @ 65 GPM (246 LPM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>25,000 ft-lb (33895 nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum Torque @ 65 GPM (246 LPM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>5,100 ft-lb (6914.7 Nm)</td>
<td></td>
</tr>
<tr>
<td>Low-Low</td>
<td>30,000 ft-lb (40674.5 Nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum RPM @ 2,500 psi (172 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>4,250 ft-lb (5762 Nm)</td>
<td></td>
</tr>
<tr>
<td>Low-Low</td>
<td>25,000 ft-lb (33895 nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum RPM @ 2,500 psi (172 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>4,500 ft-lb (6101 Nm)</td>
<td></td>
</tr>
<tr>
<td>Low-Low</td>
<td>20,000 ft-lb (27116 Nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum RPM @ 2,500 psi (172 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>30,000 ft-lb (40674.5 Nm)</td>
<td></td>
</tr>
</tbody>
</table>

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## Model 8 5/8 Hydra-Shift® HT

Special applications and tough requirements demanded that we respond with a new tong designed and built with today’s pipe handling challenges in mind. Utilizing a two speed mechanical shift transmission in conjunction with the two speed Hydra-Shift® motor, the tong has a flexible choice of torque/RPMs to use when make-up or break-out. The 8-5/8 HT series of tongs that is suitable for running corrosion-resistant alloy (CRA) tubulars and drill pipe tool joints (slide heads with rig dies).

![Image of 8 5/8 Hydra-Shift® HT](image)

<table>
<thead>
<tr>
<th>Tong Specifications</th>
<th>Capacity</th>
<th>2½ - 8½ in. (60.3 - 219.1 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>30 x 56 in. (762.0 x 1397.0 mm)</td>
<td></td>
</tr>
<tr>
<td>Weight [1]</td>
<td>2,110 lb. (957.1 kg)</td>
<td></td>
</tr>
<tr>
<td>Maximum Torque @ 2,500 psi (172 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>5,000 ft-lb (6779 Nm)</td>
<td></td>
</tr>
<tr>
<td>High-Low</td>
<td>10,000 ft-lb (13558 Nm)</td>
<td></td>
</tr>
<tr>
<td>Low-High</td>
<td>20,000 ft-lb (27116 Nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum Torque @ 2,500 psi (172 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low-Low</td>
<td>40,000 ft-lb (54233 Nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum RPM @ 65 GPM (246 LPM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>3,400 ft-lb (4690.7 Nm)</td>
<td></td>
</tr>
<tr>
<td>Low-Low</td>
<td>35,000 ft-lb (47453.6 Nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum RPM @ 65 GPM (246 LPM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>2,250 ft-lb (3051 Nm)</td>
<td></td>
</tr>
<tr>
<td>Low-Low</td>
<td>12,000 ft-lb (16948 Nm)</td>
<td></td>
</tr>
<tr>
<td>Maximum RPM @ 65 GPM (246 LPM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>25,000 ft-lb (33895 nm)</td>
<td></td>
</tr>
<tr>
<td>Certificate Type</td>
<td>Compression or Tension</td>
<td></td>
</tr>
<tr>
<td>Handle Length</td>
<td>35 in. (889.0 mm)</td>
<td></td>
</tr>
</tbody>
</table>
**Model 9\(\frac{5}{8}\) Hydra-Shift® NB**

A maximum torque rating of 18,000 ft-lb and a narrow body design this tong meets your application requirements. A two speed mechanical shift transmission in conjunction with the two speed Hydra-Shift® motor provides the operator a flexible choice of torque and rpm's to work with during make-up or breakout. The 9\(\frac{5}{8}\) Hydra-Shift® is capable of handling a range of pipe from 2\(\frac{3}{8}\) inches to 9\(\frac{5}{8}\) inches.

**Model 9\(\frac{5}{8}\) Hydra-Shift® HD**

A maximum torque rating of 25,000 ft-lb and a small foot print design allows this tong meets your tight floor space application requirements. A two speed mechanical shift transmission in conjunction with the two speed Hydra-Shift® motor provides the operator a flexible choice of torque and rpm's to work with during make-up or breakout. The 9\(\frac{5}{8}\) Hydra-Shift® HD is designed for torque turn applications and is capable of handling a range of pipe from 2\(\frac{3}{8}\) inches to 9\(\frac{5}{8}\) inches.
**Model 9 7/8 HS-40**

Today’s tubular running service companies are immensely concerned about power tong size on the newer smaller type rigs with reduced floor space. The 9-7/8 HS-40 has the industry’s smallest operational footprint for its capacity and torque output. Eckel’s innovative SPACE SAVER® Door technology resolves space constraints on smaller rig floors by opening vertically. A two speed mechanical transmission in conjunction with the two speed Hydra-Shift® motor provides the operator a flexible choice of torque and rpm’s to work with during make-up or breakout. Additionally, this tong features our new patent pending CASE STIFFENERS that enhances overall torque output.

**Model 9 7/8 HS-55**

Today’s tubular running service companies are immensely concerned about power tong size on the newer smaller type rigs with reduced floor space. The 9-7/8 HS-55 has the industry’s smallest operational footprint for its capacity and torque output. Eckel’s innovative SPACE SAVER® Door technology resolves space constraints on smaller rig floors by opening vertically. A two speed mechanical transmission in conjunction with the two speed Hydra-Shift® motor provides the operator a flexible choice of torque and rpm’s to work with during make-up or breakout. Additionally, this tong features our new patent pending CASE STIFFENERS that enhances overall torque output.
Model 9 7/8 Hydra-Shift® HT-75

Providing a maximum torque of 75,000 ft-lbs (101686 Nm) and 50,000 ft-lbs (67790.9 Nm) continuous rotational torque; well suited for today’s high torque premium casing connections. With these high torque rating, the 9 7/8 HS HT-75 Casing / Drillpipe Tong is capable of properly handling all premium grade tubulars within its size range. An innovative design allows for you to choose either sliding heads or pivot heads configuration upon order. Wrap-Around dies are offered which securely encompass the tubular to limit potential for damage.

Model 10 3/4 Standard

Light, fast and exceptionally rugged, Eckel’s Model 10 3/4 Standard is always in demand where rig floor space is at a minimum. For pipe sizes from 4 to 10 3/4 inches.

Tong Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>31/2 - 97/8 in. (88.9 - 250.8 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>34 x 73 in. (863.6 x 1854.2 mm)</td>
</tr>
<tr>
<td>Weight [1]</td>
<td>4,500 lb. (3039.1 kg)</td>
</tr>
<tr>
<td>Maximum Torque @ 2700 PSI (186 bar):</td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>5,500 ft-lb (7467.0 Nm)</td>
</tr>
<tr>
<td>High-Low</td>
<td>15,000 ft-lb (20337.3 Nm)</td>
</tr>
<tr>
<td>Low-High</td>
<td>29,000 ft-lb (39318.7 Nm)</td>
</tr>
<tr>
<td>Low-Low</td>
<td>75,000 ft-lb (101686.4 Nm)</td>
</tr>
<tr>
<td>Maximum RPM @ 65 GPM (246 LPM):</td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>77 rpm</td>
</tr>
<tr>
<td>High-Low</td>
<td>28 rpm</td>
</tr>
<tr>
<td>Low-High</td>
<td>12 rpm</td>
</tr>
<tr>
<td>Low-Low</td>
<td>4.5 rpm</td>
</tr>
<tr>
<td>Handle Length</td>
<td>47.5 in. (1206.5)</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE or DNV Optional</td>
</tr>
<tr>
<td>WD Tri-Grip® Backup Specifications</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>31/2 - 11 in. (88.9 - 279.4 mm)</td>
</tr>
<tr>
<td>Dimensions [2]</td>
<td>36.5 x 73 in. (927.1 x 1854.2 mm)</td>
</tr>
<tr>
<td>Weight [1] [2]</td>
<td>6,500 lb. (2948.4 kg)</td>
</tr>
<tr>
<td>Load Cell Type</td>
<td>Compression</td>
</tr>
<tr>
<td>Handle Length [2]</td>
<td>42.5 in. (1079.5 mm)</td>
</tr>
</tbody>
</table>

Model 10\textfrac{3}{4}. Heavy Duty

When higher torque performance than 10-3/4 Standard is required, the Eckel 10-3/4 Heavy Duty provides the performance you need. Model 10-3/4 Heavy Duty is always in demand where rig floor space is at a minimum. For pipe sizes from 4 to 10-3/4 inches, it delivers a stout 25,000 ft-lb of available torque.

Model 13\textfrac{3}{8}. Standard

Except for added torque (up to 25,000 ft-lb) and expanded pipe capacity (from 4 to 13\textfrac{3}{8} inches), this tong offers the same basic engineering and design as the smaller, lighter Model 10\textfrac{3}{4}. Highly recommended where applications demand the ultimate in size range and torque output.
Model 13 5/8 Heavy Duty

When higher torque performance than 13 3/8 Standard is required, the Eckel 13 5/8 Heavy Duty provides the performance you need. Available in two different torque output configurations. The HD-30 model provides 30,000 ft-lb while the HD-35 offers a full 35,000 ft-lb of torque. When the rig working space is small and the required torque is high, the Eckel 13 5/8 HD Casing Tong is your best option.

Tong Specifications
- Capacity: 5 1/2 - 13 3/8 in. (139.7 - 346.1 mm)
- Dimensions: 33.5 x 58 in. (850.9 x 1473.2 mm)
- Weight: 1,600 lb. (725.7 kg)
- Maximum Torque @ 2,500 psi (172 bar)
  - HD-30:
    - High: 6,000 ft-lb (8134.9 Nm)
    - Low: 30,000 ft-lb (40675 Nm)
  - HD-35:
    - High: 7,000 ft-lb (9490.7 Nm)
    - Low: 35,000 ft-lb (47454 Nm)
- Maximum RPM @ 65 GPM (246 LPM)
  - HD-30: High: 67 rpm, Low: 11 rpm
  - HD-35: High: 58 rpm, Low: 9 rpm
- Handle Length: 36 in. (914.4 mm)
- Certifications: CE and DNV Optional

Tri-Grip® Hydraulic Backup
- Capacity: 5 1/2 - 13 3/8 in. (139.7 - 371.5 mm)
- Dimensions: 44.5 x 58 in. (1130.3 x 1473.2 mm)
- Weight: 3,400 lb. (1542.2 kg)
- Maximum Torque @ 65 GPM (246 LPM)
  - HD-30: High: 67 rpm, Low: 11 rpm
  - HD-35: High: 58 rpm, Low: 9 rpm
- Handle Length: 36 in. (914.4 mm)

Model 14 Hydra-Shift®

The Eckel Model 14 Hydra-Shift® handles pipe from 4 inches to 14 inches and incorporates the Hydra-Shift® technology which provides smoother operating environment and a wider selection of torque/RPM’s that are available to the operator. The 14 Hydra-Shift® is capable of delivering 35,000 ft-lb of torque in low-speed, low-gear.

Tong Specifications
- Capacity: 4 - 14 in. (101.6 - 355.6 mm)
- Dimensions: 36 x 63.5 in. (914.4 x 1612.9 mm)
- Weight: 2,180 lb. (988.8 kg)
- Maximum Torque @ 2,500 psi (172 bar)
  - High-High: 5,500 ft-lb (7457 Nm)
  - High-Low: 11,000 ft-lb (14914 Nm)
  - Low-High: 17,500 ft-lb (23727 Nm)
  - Low-Low: 35,000 ft-lb (47454 Nm)
- Maximum RPM @ 65 GPM (246 LPM)
  - High-High: 80 rpm
  - High-Low: 42 rpm
  - Low-High: 22 rpm
  - Low-Low: 11 rpm
- Handle Length: 35.5 in. (901.7 mm)
- Certifications: CE and DNV Optional

Tri-Grip® Hydraulic Backup
- Capacity: 4 - 15 in. (101.6 - 381.0 mm)
- Dimensions: 45 x 63.5 in. (1143 x 1612.0 mm)
- Weight: 4,250 lb. (1927.7 kg)
- Maximum Torque @ 65 GPM (246 LPM)
  - High-High: 80 rpm
  - High-Low: 42 rpm
  - Low-High: 22 rpm
  - Low-Low: 11 rpm
- Handle Length: 36.5 in. (927.1 mm)

Model 14 UHT

An excellent choice where applications demand the combination of size range and high torque output, the Eckel Model 14 UHT handles pipe from 4 inches to 14 inches. Upgraded in design and performance over the Model 14 HS, this tong is capable of delivering 70,000 ft-lb of torque.

Tong Specifications

- **Capacity**: 4 - 14 in. (101.6 - 355.6 mm)
- **Dimensions**: 41 x 67 in. (1041.4 x 1701.8 mm)
- **Weight**: 3,500 lb. (1587.6 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**:
  - High-High: 12,000 ft-lb (16270 Nm)
  - Low-High: 30,000 ft-lb (40675 Nm)
- **Maximum RPM @ 70 GPM (265 LPM)**:
  - High: 32 rpm
  - Low: 11 rpm
- **Handle Length**: 42.5 in. (1079.5 mm)
- **Certifications**: CE and DNV Optional
- **Wedge Drive Tri-Grip® Hydraulic Backup**
  - Capacity: 4 - 15.5 in. (101.6 - 393.7 mm)
  - Dimensions: 51 x 69 in. (1295.4 x 1752.6 mm)
  - Weight: 4,800 lbs (2177.2 kg)
  - Handle Length: 40.5 in. (1028.7 mm)
  - **Certificates**: CE and DNV Optional

Model 14 HS-60 with Space Saver® Door Technology

The Eckel Model 14 HS-60 handles pipe from 4 inches to 14 inches while delivering 60,000 ft-lb of torque in low-speed, low-gear. The tong includes two highly popular technologies Hydra-Shift® speed-shifting and a touchless Space Saver® door.

A two-speed Hydra-Shift motor is coupled with a two-speed gear train to provide (4) torque levels and (4) RPM speeds, allowing remarkable control of the connection while providing a very smooth and high integrity connection.

Available with Eckel’s ever-popular touchless Space Saver door technology that hydraulically opens vertically. This significantly improves crew safety, speed of operation, and tong performance.

Tong Specifications

- **Capacity**: 4 - 14 in. (101.6 - 355.6 mm)
- **Dimensions**: 39.5 x 63.5 in. (1003.3 x 1612.9 mm)
- **Weight**: 2,750 lbs (1,247.4 kg)*
- **Maximum Torque @ 2500 psi (172 bar)**:
  - High-High: 6,300 ft-lbs (81349 Nm)
  - High-Low: 12,600 ft-lb (16470 Nm)
  - Low-High: 30,000 ft-lb (40675 Nm)
  - Low-Low: 60,000 ft-lb (81349 Nm)
- **Maximum RPM @ 65 GPM (246 LPM)**:
  - High-High: 75 RPM
  - High-Low: 38 RPM
  - Low-High: 11 RPM
  - Low-Low: 5.5 RPM
- **Handle Length**: 40.5 in. (1028.7 mm)
- **Certifications**: CE and DNV Optional
- **Wedge Drive Tri-Grip® Hydraulic Backup**
  - Capacity: 4 - 15.5 in. (101.6 - 181.0 mm)
  - Size: 44.5 x 68 in. (1130.3 x 1727.2 mm)
  - Weight: 4,800 lbs (2177.2 kg)
  - Handle Length: 40.5 in. (1028.7 mm)
  - **Certificates**: CE and DNV Optional
Model 14 Hydra-Shift® HT

When applications demand the combination of size and high torque output up to 135,000 ft-lb, the Eckel Model 14 Hydra-Shift® HT handles pipe from 4 inches to 14 inches. By utilizing a two speed mechanical shift transmission in conjunction with the two speed Hydra-Shift® motor, the operator has a more flexible choice of torque/rpm's to work with during make-up or break-out.

Model 17 Hydra-Shift®

For casing up to 17 inches, here's a tong that combines speed and the ability to handle smaller sizes economically. Featuring a two-speed motor and the two-speed gear train allowing for multiple selections of torque or rpm, not to mention the smoother operation of the tong.

Tong Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>4 - 14 in. (101.6 - 355.6 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>47 x 88.5 in. (1193.8 x 2247.9 mm)</td>
</tr>
<tr>
<td>Weight [1]</td>
<td>5,250 lb. (2381.4 kg)</td>
</tr>
<tr>
<td>Maximum Torque @ 2,100 psi (145 bar)</td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>10,000 ft-lb (13558 Nm)</td>
</tr>
<tr>
<td>High-Low</td>
<td>20,000 ft-lb (27116 Nm)</td>
</tr>
<tr>
<td>Low-High</td>
<td>65,000 ft-lb (88128 Nm)</td>
</tr>
<tr>
<td>Low-Low</td>
<td>135,000 ft-lb (183035 Nm)</td>
</tr>
</tbody>
</table>

Maximum RPM @ 65 GPM (246 LPM)

| High-High: 31 rpm | Low-Low: 16 rpm |
| Low-High: 4 rpm   | Low-Low: 2 rpm  |

Handle Length 48 in. (1219.2 mm)

Certifications CE and DNV Optional

Wedge Drive Tri-Grip® Backup Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>4 - 15 in. (101.6 - 381.0 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions [2]</td>
<td>48 x 73 in. (1219.2 x 1854.2 mm)</td>
</tr>
<tr>
<td>Weight [1][2]</td>
<td>8,050 lb. (3651.4 kg)</td>
</tr>
<tr>
<td>Load Cell Type</td>
<td>Compression or Tension</td>
</tr>
<tr>
<td>Handle Length [2]</td>
<td>54.5 in. (1384.3 mm)</td>
</tr>
</tbody>
</table>


Tong Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>5½ - 17 in. (139.7 - 431.8 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>53 x 74 in. (1346.2 x 1879.6 mm)</td>
</tr>
<tr>
<td>Weight [1]</td>
<td>3,100 lb. (1406.1 kg)</td>
</tr>
<tr>
<td>Maximum Torque @ 2,500 psi (172 bar)</td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>6,000 ft-lb (8135 Nm)</td>
</tr>
<tr>
<td>High-Low</td>
<td>11,500 ft-lb (15592 Nm)</td>
</tr>
<tr>
<td>Low-High</td>
<td>21,000 ft-lb (28472 Nm)</td>
</tr>
<tr>
<td>Low-Low</td>
<td>40,000 ft-lb (54233 Nm)</td>
</tr>
</tbody>
</table>

Maximum RPM @ 65 GPM (246 LPM)

| High-High: 57 rpm | Low-Low: 36 rpm |
| Low-High: 17 rpm  | Low-Low: 10 rpm |

Handle Length 41.5 in. (1054.1 mm)

Certifications CE and DNV Optional

Tri-Grip® Backup Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>5½ - 18 in. (139.7 - 457.2 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions [2]</td>
<td>54 x 75.5 in. (1371.6 x 1917.7 mm)</td>
</tr>
<tr>
<td>Weight [1][2]</td>
<td>6,000 lb. (2721.6 kg)</td>
</tr>
<tr>
<td>Load Cell Type</td>
<td>Compression or Tension</td>
</tr>
<tr>
<td>Handle Length [2]</td>
<td>41.5 in. (1054.1 mm)</td>
</tr>
</tbody>
</table>

Model 20 Standard

For casing up to 20 inches, here’s a tong that combines surprising speed with an ability to handle smaller sizes economically (as small as 7 inches). It reaches peak efficiency at just 38 horse power input, thus requiring no “souped-up” power unit. Available torque: 42,000 ft-lb

Model 20 Hydra-Shift® UHT

When applications demand the combination of size and high torque output up to 120,000 ft-lb, the Eckel Model 20 Hydra-Shift® UHT handles pipe from 7 inches to 20 inches. By utilizing a two speed mechanical shift transmission in conjunction with the two speed Hydra-Shift® motor, the operator has a more flexible choice of torque/rpm’s to work with during make-up or break-out.

Tong Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>7 - 20 in. (177.8 - 508.0 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>53 x 91 in. (1346.2 x 2311.4 mm)</td>
</tr>
<tr>
<td>Weight [1]</td>
<td>6,000 lb. (2721.6 kg)</td>
</tr>
<tr>
<td>Maximum Torque @ 2,500 psi (172 bar)</td>
<td></td>
</tr>
<tr>
<td>High-High</td>
<td>5,000 ft-lb (6779.1 Nm)</td>
</tr>
<tr>
<td>High-Low</td>
<td>25,000 ft-lb (33896.5 Nm)</td>
</tr>
<tr>
<td>Low-High</td>
<td>35,000 ft-lb (47453.6 Nm)</td>
</tr>
<tr>
<td>Low-Low</td>
<td>120,000 ft-lb (162698.2 Nm)</td>
</tr>
<tr>
<td>Maximum RPM @ 65 GPM (246 LPM)</td>
<td></td>
</tr>
<tr>
<td>High-High: 55 rpm</td>
<td></td>
</tr>
<tr>
<td>High-Low: 16 rpm</td>
<td></td>
</tr>
<tr>
<td>Low-High: 10 rpm</td>
<td></td>
</tr>
<tr>
<td>Low-Low: 2.5 rpm</td>
<td></td>
</tr>
<tr>
<td>Handle Length</td>
<td>56 in. (1422.4 mm)</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE and DNV Optional</td>
</tr>
</tbody>
</table>


Tri-Grip® Backup Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>7 - 21 in. (177.8 - 533.4 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>54.5 x 94 in. (1384.3 x 2387.6 mm)</td>
</tr>
<tr>
<td>Weight [1][2]</td>
<td>9,400 lb. (4263.8 kg)</td>
</tr>
<tr>
<td>Load Cell Type</td>
<td>Compression or Tension</td>
</tr>
<tr>
<td>Handle Length</td>
<td>56 in. (1422.4 mm)</td>
</tr>
</tbody>
</table>

Model 22 Hydra-Shift®

For casing up to 22 inches, here’s a tong that has strong torquing ability and and pipe sizes down to 7 inch. Utilizing a two-speed motor and a two-speed gear train allows the operator to correctly adjust the tong for the optimum torque and rpm required. Maximum torque for the 22 Hydra-Shift® is 80,000 ft-lb.

Tong Specifications

- **Capacity**: 7 - 22 in. (177.8 - 558.8 mm)
- **Dimensions**: 47 x 75 in. (1193.8 x 1905.0 mm)
- **Weight** [1]: 4,375 lb. (1984.5 kg)
- **Maximum Torque @ 2,700 psi (186 bar)**
  - High-High: 6,000 ft-lb (8134.9 Nm)
  - High-Low: 12,000 ft-lb (16269.8 Nm)
  - Low-High: 40,000 ft-lb (54232.7 Nm)
  - Low-Low: 80,000 ft-lb (108465.4 Nm)
- **Maximum RPM @ 60 GPM (227 LPM)**
  - High-High: 54 rpm
  - High-Low: 33 rpm
  - Low-High: 8.5 rpm
  - Low-Low: 4.5 rpm
- **Handle Length**: 45 in. (1143.0 mm)
- **Certifications**: CE and DNV Optional

Wedge Tri-Grip® Backup Specifications

- **Capacity**: 7 - 23 in. (177.8 - 584.2 mm)
- **Dimensions** [2]: 59 x 90 in. (1498.6 x 2286.0 mm)
- **Weight** [1] [2]: 8,000 lb. (3628.7 kg)
- **Load Cell Type**: Compression or Tension
- **Handle Length** [2]: 45 in. (1143.0 mm)


Model 24 UHT

Features a two-speed motor with single-speed gear train, producing 95,000 ft-lb of torque in low speed, 25,000 ft-lb in high, both at 2,500 psi. Weighing 8,000 pounds, this tong easily handles ultra-heavy casing strings from 13⅜ inches to 24 inches.

Tong Specifications

- **Capacity**: 13⅜ - 24 in. (339.7 - 609.6 mm)
- **Dimensions**: 61.5 x 106.5 in. (1562.1 x 2705.1 mm)
- **Weight** [1]: 8,000 lb. (3628.7 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - High: 25,000 ft-lb (33895.4 Nm)
  - Low: 95,000 ft-lb (128802.7 Nm)
- **Maximum RPM @ 70 GPM (265 LPM)**
  - High: 20 rpm
  - Low: 5 rpm
- **Handle Length**: 67 in. (1701.8 mm)
- **Certifications**: CE and DNV Optional

Hydraulic Cam Backup Specifications

- **Capacity**: 13⅜ - 25 in. (339.7 - 635.0 mm)
- **Dimensions** [2]: 77.5 x 110 in. (1968.5 x 2794 mm)
- **Weight** [1] [2]: 14,260 lb. (6468.2 kg)
- **Load Cell Type**: Compression or Tension
- **Handle Length** [2]: 67 in. (1701.8 mm)

Model 25 Hydra-Shift®

Featuring a two-speed motor and a two-speed gear train, this tong is available with three different torque output configurations. HS-60 at 60,000 ft-lbs, HS-85 at 85,000 ft-lbs and HS-125 at 125,000 ft-lbs. Weighing 6,330 pounds, this tong easily handles ultra-heavy casing strings from 7 inches to 25 inches.

**Tong Specifications**
- **Capacity**: 7 - 25 in. (177.8 - 635.0 mm)
- **Dimensions**: 56.5 x 91.5 in. (1435.1 x 2324.1 mm)
- **Weight**: 6,330 lb. (2871.2 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - HS-60:
    - High-High: 5,500 ft-lb (7457 Nm)
    - High-Low: 16,000 ft-lb (21693 Nm)
    - Low-High: 20,000 ft-lb (27116 Nm)
    - Low-Low: 60,000 ft-lb (81349 Nm)
  - HS-85:
    - High-High: 5,500 ft-lb (7457 Nm)
    - High-Low: 20,000 ft-lb (27116 Nm)
    - Low-High: 25,000 ft-lb (33895 Nm)
    - Low-Low: 85,000 ft-lb (115244 Nm)
  - HS-125:
    - High-High: 9,000 ft-lb (12202 Nm)
    - High-Low: 24,000 ft-lb (32540 Nm)
    - Low-High: 56,000 ft-lb (75926 Nm)
    - Low-Low: 125,000 ft-lb (169477 Nm)
- **Maximum RPM @ 65 GPM (246 LPM)**
  - HS-60:
    - High-High: 65 rpm
    - High-Low: 22 rpm
    - Low-High: 17 rpm
    - Low-Low: 6 rpm
  - HS-85:
    - High-High: 65 rpm
    - High-Low: 17 rpm
    - Low-High: 14 rpm
    - Low-Low: 4.5 rpm
  - HS-125:
    - High-High: 32 rpm
    - High-Low: 12 rpm
    - Low-High: 6 rpm
    - Low-Low: 3 rpm
- **Handle Length**: 56 in. (1422.4 mm)
- **Certifications**: CE and DNV Optional

**Wedge Tri-Grip® Backup Specifications**
- **Capacity**: 9½ - 26½ in. (244.5 - 673.1 mm)
- **Dimensions**: 60.5 x 95 in. (1536.7 x 2413 mm)
- **Weight**: 9,000 lb (4082 kg)
- **Maximum RPM @ 65 GPM (246 LPM)**
  - HS-60:
    - High-High: 31 rpm
    - High-Low: 12 rpm
    - Low-High: 6 rpm
    - Low-Low: 2.4 rpm
  - HS-85:
    - High-High: 31 rpm
    - High-Low: 12 rpm
    - Low-High: 6 rpm
    - Low-Low: 3 rpm
- **Handle Length**: 56 in. (1422.4 mm)
- **Certifications**: CE and DNV Optional

Model 30 Hydra-Shift®

The Eckel Model 30 Hydra-Shift® features a two-speed motor with two-speed gear train, producing 130,000 ft-lb of torque in low-low, at 2,500 psi. Weighing 9,000 pounds, this tong easily handles ultra-heavy casing strings from 14 inches to 30 inches.

**Tong Specifications**
- **Capacity**: 14 - 30 in. (355.6 - 762.0 mm)
- **Dimensions**: 68 x 107 in. (1727.2 x 2717.8 mm)
- **Weight**: 9,000 lb. (4082.3 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - HS-60:
    - High-High: 6,900 ft-lb (9219.6 Nm)
    - High-Low: 24,000 ft-lb (32539.6 Nm)
    - Low-High: 44,750 ft-lb (60672.9 Nm)
    - Low-Low: 130,000 ft-lb (176256.3 Nm)
- **Maximum RPM @ 65 GPM (246 LPM)**
  - HS-60:
    - High-High: 31 rpm
    - High-Low: 12 rpm
    - Low-High: 6 rpm
    - Low-Low: 2.4 rpm
- **Handle Length**: 66.5 in. (1689.1 mm)
- **Certifications**: CE and DNV Optional

**Model 7.25 HS HT-80**  
**Drillpipe and Casing Tong**

The new 7.25 HS HT-80 for Drillpipe and High Torque Casing Tong takes on the toughest job with make-up and break-out operations involving casing in sizes 16 inches through 36 inches. Weighing approximately 13,000 pounds, this casing tong is 81 inches wide and 135 inches in length. A two-speed motor delivers 16 RPM in high, 3 1/2 rpm in low range, both at 70 GPM.

**Tong Specifications**
- **Capacity**: 2 3/8 - 7 1/4 in. (60.3 - 184.2 mm)
- **Dimensions**: 40 x 70 in. (1016.0 x 1778.0 mm)
- **Weight**: 4,450 lb. (2018.5 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - High-High: 21,800 ft-lb (29557 Nm)
  - High-Low: 34,000 ft-lb (46097.8 Nm)
  - Low-High: 100,000 ft-lbs (135582 Nm)
- **Maximum RPM @ 70 GPM (265 LPM)**
  - High-High: 38 rpm
  - High-Low: 10 rpm
  - Low-High: 3 rpm
- **Handle Length**: 77 in. (1955.8 mm)
- **Certifications**: CE and DNV Optional

* [1] Weight Approximate

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**Model 36 UHT**

The big, capable Model 36 UHT easily produces 100,000 ft-lb of torque for makeup or break-out operations involving casing in sizes 16 inches through 36 inches. Weighing approximately 13,000 pounds, this casing tong is 81 inches wide and 135 inches in length. A two-speed motor delivers 16 RPM in high, 3 1/2 rpm in low range, both at 70 GPM.

**Tong Specifications**
- **Capacity**: 16 - 36 in. (406.4 - 914.4 mm)
- **Dimensions**: 81 x 135 in. (2057.4 x 3429.0 mm)
- **Weight**: 13,000 lb. (5896.7 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - High-High: 20,000 ft-lb (27116.4 Nm)
  - Low-High: 34,000 ft-lb (46097.8 Nm)
  - Low-Low: 80,000 ft-lbs (108465.4 Nm)
- **Maximum RPM @ 65 GPM (246 LPM)**
  - High-High: 16 rpm
  - Low-High: 3.5 rpm
  - Low-Low: 3.5 rpm
- **Handle Length**: 77 in. (1955.8 mm)
- **Certifications**: CE and DNV Optional


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**Wedge Tri-Grip Backup Specifications**
- **Capacity**: 2 3/8 - 8 in. (60.3 - 203.2 mm)
- **Dimensions**: 40 x 70 in. (1016.0 x 1778.0 mm)
- **Weight**: 6,750 lb. (3061.7 kg)
- **Load Cell Type**: Compression or Tension
- **Certifications**: CE and DNV Optional

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**Tong Specifications**
- **Capacity**: 2 3/8 - 7 1/4 in. (60.3 - 184.2 mm)
- **Dimensions**: 40 x 70 in. (1016.0 x 1778.0 mm)
- **Weight**: 4,450 lb. (2018.5 kg)
- **Maximum Torque @ 2,500 psi (172 bar)**
  - High-High: 8,000 ft-lb (10846.6 Nm)
  - High-Low: 20,000 ft-lb (27116.4 Nm)
  - Low-High: 34,000 ft-lb (46097.8 Nm)
  - Low-Low: 80,000 ft-lbs (108465.4 Nm)
- **Maximum RPM @ 70 GPM (265 LPM)**
  - High-High: 16 rpm
  - Low-High: 3.5 rpm
- **Handle Length**: 42 in. (1066.8 mm)
- **Certifications**: CE and DNV Optional

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**Model 870 DPT**

The Eckel 870 combine power tong and Wedge Drive Tri-Grip® backup, providing a single piece of equipment to replace several… one smooth continuous operation instead of numerous time-wasting steps at each connection. For drill strings up to 8 inch collars, the model 870 offers over 75,000 ft-lb of torque for break-out and make-up operations, plus ample speed for spinning joints.

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**Top Drive Casing Tong**

The Eckel Top Drive Casing Tong is used on hydraulic top drive rigs to provide a high quality connection while reducing tubular damage and providing a safer environment for crews. With an operating capacity of 4½ inch through 10¾ inch, the tong is connected to the output stem of the power swivel. After installation the tong becomes an integral part of the swivel, raising and lowering as a unit and transferring the power swivel’s RPM and torque to the pipe/connection.

A guide attached beneath the top drive tong simplifies alignment of the collar within the tong. Once the collar of the pipe is enclosed within the top drive tong, the tong will grip the collar by operating the power swivel. Torque and rotational speed are controlled through the operation of the power swivel. Reversal of the power swivel will cause the tong jaws to release. Tong jaws are spring loaded to retract away from the collar.

Utilizing three gripping jaws and a patented Eckel Cam Biting System to grip the pipe collar. This tong has the same type of proven biting system found in the industry leading Eckel Power Tongs. These jaws are spaced evenly about the circumference of the collar to provide even distribution of the gripping forces.

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**Tong Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Capacity</th>
<th>Dimensions</th>
<th>Weight [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4½ - 8 in.</td>
<td>(104.8 - 203.2 mm)</td>
<td>7,000 lb.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1092.2 x 1905 mm)</td>
<td>(3,175.1 kg)</td>
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<table>
<thead>
<tr>
<th></th>
<th>Maximum Torque @ 2,500 GPM (172 bar)</th>
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<tr>
<td>High-High</td>
<td>4,000 ft-lb (5423 Nm)</td>
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<tr>
<td>High-Low</td>
<td>15,600 ft-lb (21151 Nm)</td>
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<tr>
<td>Low-High</td>
<td>20,800 ft-lb (28201 Nm)</td>
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<tr>
<td>Low-Low</td>
<td>75,000 ft-lb (101686 Nm)</td>
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<th>Maximum RPM @ 65 GPM (246 LPM)</th>
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<tr>
<td>High-High: 78 rpm</td>
<td>Low-High: 15 rpm</td>
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<tr>
<td>High-Low: 21 rpm</td>
<td>Low-Low: 4 rpm</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>Load Cell Type</th>
<th>Handle Length</th>
<th>Certifications</th>
<th>Backup Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compression or Tension</td>
<td>44 in. (1117.6 mm)</td>
<td>CE and DNV Optional</td>
<td>Wedge Drive Tri-Grip®</td>
</tr>
</tbody>
</table>

[1] Weight Approximate

---

**Specifications, Top Drive**

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<thead>
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<th></th>
<th>Pipe Capacity</th>
<th>Dimensions</th>
<th>Weight [1]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4½ - 105/8 in.</td>
<td>(114.3 - 269.9 mm)</td>
<td>860 lb.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(297.7 x 1905 mm)</td>
<td>(390.1 kg)</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>Certifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CE and DNV Optional</td>
<td></td>
</tr>
</tbody>
</table>

[1] Weight Approximate
Eckel Tri-Grip® Backup's

Tri-Grip® Backup
The field proven Tri-Grip® Backup since 1996 utilizes three head arrangement that insures slip-free operation. The hydraulic backup is suspended at an adjustable level below the power tong by means of three hanger legs and allowing the backup to remain stationary while the power tong moves vertically to compensate for thread travel of the connection.

Tri-Grip® Backup:
- Field Proven Design for 20 Years.
- Applications: Tubing, Casing, & Drill Pipe
- Wrap-Around Dies: Coarse, Finetooth and True Grit® Dies
- Rig Dies: Coarse and True Grit® Dies
- (3) Gripping Surface
- Slip Free Operation
- Adjustable Height
- Single hydraulic cylinder with reduced hydraulic complexity
- Load Cell Type: Compression or Tension

Wedge Drive Tri-Grip® Backup
Same great features found on the standard Tri-Grip®, the Wedge Drive Tri-Grip® Backup was introduced in 2014 as a evolutionary update to the standard Tri-Grip®. The WD Tri-Grip® is a high performance backup with no compromises that is available for specific applications. The Wedge Drive Tri-Grip® handles the most demanding torques that larger casing and drill pipes demand. The backup is suspended at an adjustable level below the power tong by means of three hanger legs and allowing the backup to remain stationary while the power tong moves vertically to compensate for thread travel of the connection.

WD Tri-Grip® Backup:
- Applications: Tubing, Casing, & Drill Pipe
- Wrap-Around Dies: Coarse, Finetooth and True Grit® Dies
- Rig Dies: Coarse and True Grit® Dies
- Light weight and compact design
- Low Maintenance
- (3) Gripping Surface
- Enhanced Slip Free Operation
- Adjustable Height
- Single hydraulic cylinder with reduced hydraulic complexity
- Load Cell Type: Compression or Tension

Compression Load Cell
Eckel customarily provides compression style hydraulic load cell backups to measure the torque exerted in make-up and break-out operations. A load cell bracket is located at the rear of the backup which a compression load cell is inserted.

Tension Load Cell
Eckel also provides tension type load cell backups when operator preferences require a tension configuration. Tension backups unlike compression have identical handle lengths as the tong. This allows the torque gauge assembly to be calibrated for proper torque readings in both tong and tong & backup configurations. The tension load cell is mounted on the rear of the backup between the roller bracket yoke and load cell mount.
Eckel® Standard Tong Dies

Tong dies have come a long way since tongs became commonplace in the oil & gas industry. Eckel has been at the forefront of this developing technology with the development of larger wrap-around type dies for many of its tong models. We offer coarse tooth and fine tooth depending on the application. We recommend a coarse tooth wrap-around dies for regular carbon steel pipe and collars. For special alloys such as 9, 13, 23, 25, chrome and fiberglass we recommend fine-tooth dies that minimizes any marking of the tubular. Also refer to Eckel Grit Faced Dies below for running Corrosion Resistant Alloys (CRA).

Eckel offers contour type dies for tubing sizes on many of our tongs which use pivot heads. In addition to our contour dies, we provide A and S series wrap-around dies for our 13½ Standard and 20 Standard casing tongs, providing a larger gripping area and reducing pipe damage. Rig type dies are used extensively for 4 inch and above. Sliding heads with rig dies is the best choice when running drill pipe connections.

The Eckel Sliding head biting system utilizes our wide angle wrap-around type dies and is considered the best choice of power tong biting systems for use on small tubulars. The biting surface of each wrap-around die is symmetrically spaced 180 degrees apart from each other at all times. This biting system provides a larger range of tubular coverage and allows for more die teeth to come in contact with the tubular while preventing it from moving off center and insuring an equally distributed load on the tubular connection.

Eckel® Non-Marking True Grit® Dies

Eckel Non-Marking True Grit® Dies - Have set a NEW industry standard for handling Corrosion Resistant Alloys (CRA) tubular goods. Eckel True Grit® Dies are used on chrome tubulars where reduced die penetration and die marking is greatly desired. Eckel Coated Grit Faced Dies utilizes Tungsten Carbide grit which provides many more points of contact on the surface of the tubular than our Pyramid Fine Tooth dies. The Tungsten Carbide is a dense, metal like substance that does not flake or sheer off the face of the die.

Resilience / Long-Lasting - up to 3X Longer - Field tests have shown that Eckel’s Grit Faced Dies last up to 3 times longer than other manufacturers grit faced dies.

Heat Treating - Eckel’s Coated Grit Faced Dies are heat treated and do not deform. This allows the die to be easily removed from the head after a job and stored.

Performance - Eckel Coated Grit Faced dies perform better than any steel tooth die when running (SUPER or HYPER) Chrome as these type tubulars are as hard or harder than heat treated steel dies.

Penetration - Grit Faced Die penetrations are typically less than half of API allowable surface defect depth.

Contamination - Die clogging is minimized when running painted or varnished tubulars.

Custom Sizes - Eckel Coated Grit Faced dies are available as Rig or Wrap-Around Dies for any model of Eckel tong.
**Case Safety Handles**

Designed for improved safety when handling the tong. Up to four Case Handles can be optionally mounted on most tong models. Large caps help protect the operator hands when maneuvering the tong on and off the tubulars.

**Motor Port Relief Valve**

The adjustable motor port relief valve is used to control or limit the hydraulic pressure to the tong motor thus controlling the maximum torque output of the power tong. The valve controls only the hydraulic pressure to the tong motor leaving full system pressure available for other functions such as lift cylinder and hydraulic backup.

**RPM Control**

The RPM Control is a flow divider that decreases the amount of hydraulic fluid that reaches the tong. By decreasing the flow the operator is able to control the maximum RPM's the tong will deliver.

**Case Safety Handles**

Designed for improved safety when handling the tong. Up to four Case Handles can be optionally mounted on most tong models. Large caps help protect the operator hands when maneuvering the tong on and off the tubulars.

**Finger Guard Protection**

Eckel continues to set industry safety standards with the optional Finger Guard Option. This shield covers the gap between the tong door and tong body, without limiting door operation. Door will open and close freely.

**Hydraulic Swivel Joints**

Tongs equipped with the optional Swivel Joints have improved hose life by absorbing system shock when pressured up and preventing twisting, kinking of the hydraulic hoses. In addition tongs are maneuvered more freely on the rig floor on and off the tubular.

**Integrated Door Interlock**

A door interlock is offered as an added safety feature that prevents the power tong from accidental operation of the power tong when the door is open.

**Lift Cylinder**

This cylinder provides a means for raising and lowering the tong during operations and is recommended with tongs that have a hydraulic backup due to the extra weight of the tong.

**Torque Control System**

Eckel offers torque control systems to monitor the torque turn values when making up tubular connections with the system automatically stopping tong operation once reaching a specific torque. Any flaws in the make-up process will be readily shown in a graph.

**Tong Straps**

Industrial strength straps feature a rubber gripping surface to allow for easily pulling the tong on and off the tubular. These optional straps are mounted on the tong door and on both sides of the solid hanger area of the tong.

**Torque Gauge Assembly**

The optional torque gauge assembly is used to measure the torque exerted in make-up or break-out operations. Consisting of a hydraulic cylinder and torque gauge connected together by a pressure hose, the torque gauge assembly senses and indicates the torque developed during an operation.
Diesel and Electric Power Units

Eckel’s standard diesel or electric power packages at 65 GPM and 2,500 psi (246 LPM / 172 bar) are widely recognized for dependability and long, trouble-free service.

Eckel will customize hydraulic power systems in the shortest possible time to meet “non-standard” requirements for space, fluid-flow, auxiliary power, portability, etc.

Diesel driven units are optionally supplied with automatic shut down systems to prevent engine run away when explosive gases are present. Additional shut downs include engine oil temperature, oil pressure, and fan belt breakage. All controls are either air, mechanical or electrical.

Diesel Power Units

Features:
- 4 or 6 Cylinder Engines
- Electric or Air Start
- Electric or Hydraulic Throttle
- Single Point Lift or 4-Point Lift
- Air Blast Heat Exchanger
- Radiant Heat Exchanger

Options:
- Emergency Shut Down
- Cold Weather Models
- Low Temperature Hydraulic Oil
- Hazardous Location Models
- High Ambient Temp Models

Electric Power Units

Features:
- 50HP-50HZ, 50HP/60HZ
- 60HP/50HZ, 60HP/60HZ
- 65 GPM / 2500 PSI
- Single Point Lift or 4-Point Lift
- Air Blast Heat Exchanger
- Tube and Shell Heat Exchanger
- Remote Start/Stop

Options:
- Cold Weather Models
- Low Temperature Hydraulic Oil
- Hazardous Locations:
  - Class 1 - Division 1 - Group D

Eckel Single Point Lift Diesel Power Unit

Specifications
- Dimensions: 46 x 122 in. (1168.4 x 3098.4 mm)
- Height: 65 in. (1651.0 mm)
- Weight [1]: 3,525 lb. (1598.9 kg)

Eckel Compact Frame 4-Point Lift Diesel Power Unit

Specifications
- Dimensions: 60 x 84 in. (1524 x 2134 mm)
- Height: 65 in. (1651.0 mm)
- Weight [1]: 4,550 lb. (2063.8 kg)
Extreme Operating Environments

Eckel manufactures power units for extreme environments such as cold weather conditions, high ambient temperatures and hazardous locations. Custom designs and configuration are available to meet your specific requirements, and we’ll be glad to make recommendations based upon your specifications.

High Ambient Temperature:

Eckel’s high ambient hydraulic power units operate in extreme high temperature environments. An air blast heat exchanger and a larger hydraulic take insures the oil temperature remains within operating conditions.

Cold Weather Power Units:

Eckel’s cold weather service hydraulic power units provide trouble free operation even when the temperature drops below -40° F (-40° C). Insulating panels insure components are protected from extreme cold. The hydraulic tank features a internal heater unit that automatically heats the hydraulic oil to operational temperature within 30 minutes in extreme cold conditions. Easily adaptable for summer operation, the power unit is an All Weather Hydraulic Power Unit.

Custom design and configuration is available to meet your specific needs, and we’ll be glad to make recommendations based on your requirements.

Hazardous Locations - Class 1 - Division 1 - Group D:

Electric Power Units for hazardous locations are constructed using electrical components that meet NFPA Class 1, Division 1, Group D explosion proof requirements. Optionally offered with extra capacity hydraulic oil and fuel reservoirs.
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ENGINEERING THAT PERFORMS.