Trusted performance with a low maintenance design

Engineered and designed for rugged reliability and reduced maintenance, our injectors are backed by the experience achieved from the manufacturing of over 2,000 injectors.

Whether you are packaging a new, custom-built unit with the HR-680 model injector, or just replacing your existing injector, our models have the performance and dependability that is demanded by your customers in the toughest oilfield conditions around the world.

Designed to handle 1½- to 3½-in. coiled tubing strings, this model is capable of running the new 130,000-psi designs with superior slow speed control (inches per minute). The HR-680 has an 80,000-lb continuous lifting capacity and 40,000-lb continuous snubbing capacity.

The drive system and traction system included in our design enhances your performance in the field.

Options
- Radius tubing guide sizes: 60 in. (680 lb), 72 in. (800 lb), 100 in. (1,200 lb), and 120 in. (1,500 lb)
- Injector counter
- Fold down walkways
- Electronic or combination of electronic/hydraulic load cells
- Fall protection device
### HR-680 Coiled Tubing Injector

#### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. speed (Min. displacement)</td>
<td>200 ft/min</td>
</tr>
<tr>
<td>Max. speed (Max. displacement)</td>
<td>108 ft/min</td>
</tr>
<tr>
<td>Horsepower</td>
<td>150 hp continuous at 120° F</td>
</tr>
<tr>
<td>Lifting capacity through outer frame</td>
<td>35,000 lb</td>
</tr>
<tr>
<td>Lifting capacity from stripper</td>
<td>80,000 lb</td>
</tr>
<tr>
<td>Assembled weight: 12” gooseneck, stripper box, min. handling slings, lube tank, excludes fall pole, other options</td>
<td>9,500 lb</td>
</tr>
<tr>
<td>Approx. individual gripper weight</td>
<td>6 lb</td>
</tr>
</tbody>
</table>

#### Drive System
- Deep reduction, purpose-built gear drives
- Dual hydraulic motor input (variable displacement, piston motors)
- Counterbalance valves plumbed directly to motor
- Tubing odometer for maintenance and inspection requirements
- Dual oil seals on gear drive output shafts for long and reliable service
- Dual spring applied/pressure released brakes mounted between the hydraulic drive motors and gear drives

#### Traction System
- Reduced remove/install time with our patented "Quick Connect" Gripper System (1-3 seconds)
- Hardened and grooved single piece grippers
- Elastomeric suspension system for grippers
- Reduced maintenance with no greasing of chain bearings required due to "sealed-for-life" design
- Purpose-built and simplified direct down tension chain system
- Spray type injector chain lubricating system
- Improved skate entrance design for smoother chain bearing entry into traction system

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[Graphs and diagrams related to specifications and systems]