

HR-6120 Coiled Tubing Injector



Quality you can trust for the new normal of today's unconventional operations

Engineered and manufactured for rugged reliability and reduced maintenance, you can rely on our field-proven Hydra Rig™ manufacturing and injector design to tackle the new demands that come with quench and tempered coiled tubing. While offering weight savings over our largest injector offering, the HR-6120 maintains the brute dependability you have grown to expect from Hydra Rig.

Whether you are packaging a new, custom-built unit with the HR-6120 model injector, or just replacing an existing one, the HR-6120 can be retrofitted on most of our existing units within the footprint of many of our injector models.

Designed to handle 2- to 2 $\frac{7}{8}$ -in. coiled tubing strings, this model is capable of running 140,000-psi designs with superior slow-speed control (inches per minute). The HR-6120 has a 120,000-lb continuous lifting capacity and 60,000-lb continuous snubbing capacity.

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

Options

- Radius tubing guide sizes: 100 in. (1,200 lb), 120 in. (1,500 lb), and 140 in. (1,800 lb); Available in standard flare, hydraulic flare, and short-fold versions
- Injector counter
- Fold-down walkways
- Electronic or combination of electronic/hydraulic load cells
- Fall protection device
- Lift bale or sling options on dual-mounting lugs

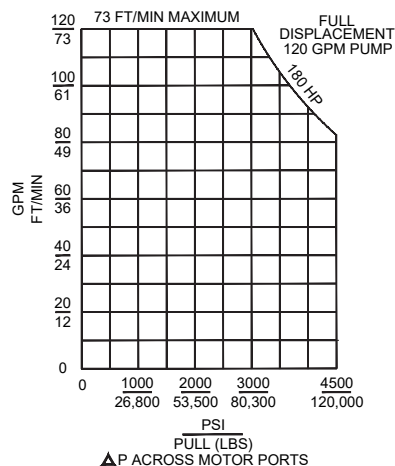
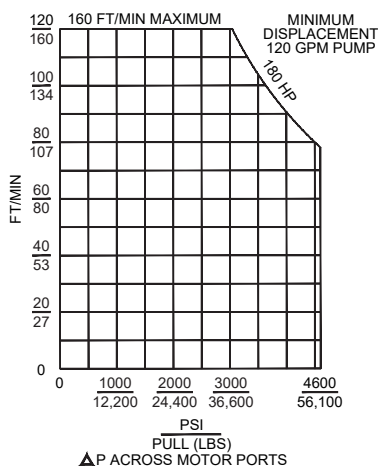
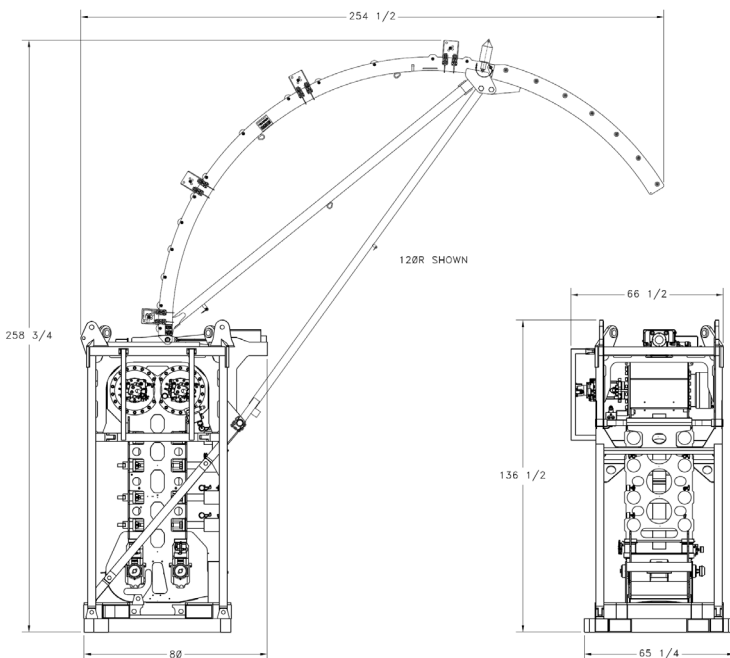
Upgrades

- Injector auto-lubrication system
- Slip mitigation system
- Remote tubing alignment (patent pending)

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Specifications

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| Maximum speed (min. displacement) | 160 ft/min |
| Maximum speed (max. displacement) | 84 ft/min |
| Horsepower | 180-hp continuous at 120° F |
| Lifting capacity through outer frame | 140,000 lb |
| Lifting capacity from stripper | 120,000 lb |
| Assembled weight: 120-in. gooseneck installed, no stripper | 18,000 lb |
| Approximate individual gripper weight | 6 lb |



Drive system

- Deep reduction, purpose-built gear drives
- Dual hydraulic motor input (variable displacement, piston motors)
- Counterbalance valves hard-plumbed to motor
- Heavy-duty drive bearing
- Dual spring-applied/pressure-released brakes mounted between the hydraulic drive motors and gear drives
- Patented hydraulic timing system combines the best features of both timed and untimed drives

Traction system

- Reduced remove/install time with our “quick disconnect” 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
- Skates utilize patented strain-relief feature designed for improved traction performance
- Four independent sets of two rod type hydraulic cylinders
- 180-pitch heavy-duty roller chain links