

Hydra Rig™

HR-5100 Coiled Tubing Injector



Trusted performance with a low maintenance design

Engineered and manufactured for rugged reliability and reduced maintenance, we've manufactured over 2,200 injectors so you can rely on our field-proven design.

Whether you are packaging a new, custom-built unit with the HR-5100 model injector, or just replacing an 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 1 ½" to 3 ½" coiled tubing strings, this model is capable of running the new 140,000 psi designs with superior slow speed control (inches per minute). The HR-5100 has an 100,000 lbs continuous lifting capacity and 50,000 lbs continuous snubbing capacity.

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

Features

- Hub odometer mounted on idler shaft for total footage indication
- Minimum parts count for reduced maintenance
- Narrow width for easier rig access — 65"
- Dual hydraulic load cell standard
- Available with North Sea service certification

Options

- Radius tubing guide sizes: 100" (1,200 lbs) and 120" (1,500 lbs)
- Injector counter
- Fold down walkways
- Electronic or combination of electronic/hydraulic load cells
- Fall protection device

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Specifications

Max. speed (Min. displacement)	140 ft/min
Max. speed (Max. displacement)	84 ft/min
Horsepower	200 hp continuous at 120° F
Lifting capacity through outer frame	120,000 lbs
Lifting capacity from stripper	100,000 lbs
Assembled weight: 100" gooseneck installed, no stripper	17,400 lbs
Approx. individual gripper weight	6 lbs

Drive System

- Deep reduction, purpose-built gear drives
- Single hydraulic motor input (variable displacement, piston motors)
- Counterbalance valves plumbed directly to motor
- Tubing odometer for maintenance and inspection requirements
- Spring applied/pressure released brake mounted between the hydraulic drive motor and gear drive

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
- Skates designed for smoother chain bearing entry into traction system
- Four independent sets of two rod type hydraulic cylinders

