

HR-6100 Coiled Tubing Injector



Reliability and versatility in upper mid-range applications

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

Whether you are packaging a new, custom-built unit with the HR-6100 model injector or just replacing an existing one, our injectors have the performance and dependability that is required in the toughest oilfield conditions around the world.

Designed to handle 1¼- to 3½-in. coiled tubing strings, this model is capable of running large-OD tubing designs with superior slow speed control (inches per minute). The HR-6100 has an 100,000-lb continuous lifting capacity and 50,000-lb continuous snubbing capacity. The HR-6100 is lighter than its 5-series predecessor, which reduces impacts on coiled tubing unit transportation and hook loads and increases pressure control equipment stack weight capacity below lifting equipment.

The hydraulically timed drive and free-floating traction systems enhance performance and reliability in the field by reducing dynamic loads on the coiled tubing and injector components.

Options

- Manually or hydraulically deployed tubing guides available in 100- and 120-in. radius sizes
- Multiple options for tubing depth and speed counters available
- Fold-down walkways
- Electronic or hydraulic load cells
- Fall protection device
- Hydraulic lift bail

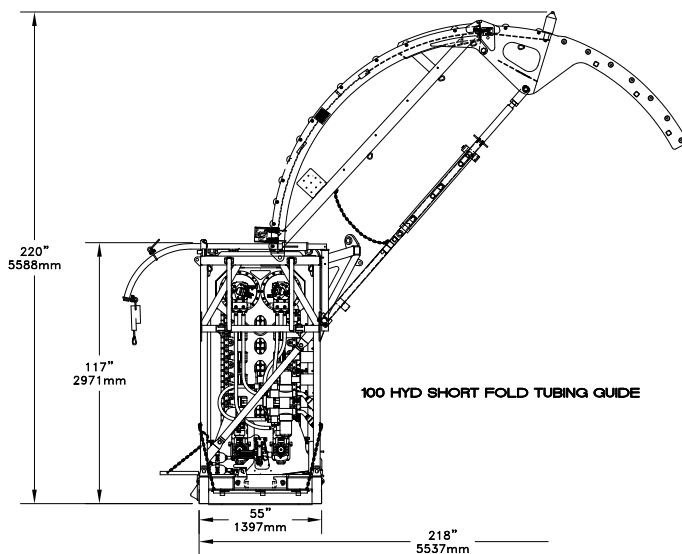
Upgrades and accessories

- Slip mitigation system
- Remote tubing guide alignment (patent pending)
- Condition-based monitoring (CBM) system
- Tubing guide load sense
- Transport stands with or without hydraulic tilt frame
- Injector or tilt frame-mounted stabbing winch
- Injector auto-lubrication system

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Specifications

Maximum speed (min. displacement)	160 ft/min
Maximum speed (max. displacement)	90 ft/min
Horsepower	150-hp continuous at 120° F
Lifting capacity through outer frame	115,000 lb
Lifting capacity from stripper	100,000 lb
Assembled weight: 100-in. gooseneck installed, no stripper	13,500 lb



HR-6100 with 100-in. hydraulic short-fold tubing guide on a transport skid with hydraulic tilt frame and stabbing winch

Drive system

- Deep reduction, purpose-built gear drives
- Dual hydraulic motor input (variable displacement, piston motors)
- Counterbalance valves
- 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
- Patented hydraulic timing system

Traction system

- Reduced remove/install time with our "quick disconnect" gripper system (1-3 seconds)
- Hardened and grooved single piece grippers
- Pocket-style elastomer gripper block suspension system
- Reduced injector chain maintenance due to sealed-for-life gripper carrier roller bearings
- Four independent sets of traction system hydraulic cylinders
- Single-strand 200-pitch heavy-duty roller chains