The Coiled Tubing (CT) injector is purposely designed for pushing and pulling CT pipe in and out of the well bore.

When lifted with the tubing guide and lifting pad eyes, the outer frame of the injector has a total rated lifting capacity of 60,000 lb (27,216 kg) and can be used for lifting the stripper, riser assembly, BOP and Bottom Hole Assembly via the JIC# 3 injector connector mounted to the base of the injector.

The injector is designed with a 42-inch universal frame size to fit in the standard tilt mechanism of V95QRU and EQR reel trailers. The injector is operated remotely by all Halliburton universal houses including those designed for DeepReach™ CT.

The drive assembly comprises two 5,000 psi (34.5 Mpa) rated variable displacement motors driving rotating ANSI 200-3 chain assemblies via a planetary gearbox. Spring actuated brakes and counterbalance valves are fitted to the motors to maintain control of the pipe even in the event of loss of hydraulic pressure. A cam-driven lubrication system keeps the chains oiled. Gripper and bearing chain adjustment is manual.

Four hydraulic traction cylinders connected to two opposing linear beams apply a friction force to the tubing string. Each beam has a bearing chain which transfers the cylinder force to the gripper chain.

Upper and lower cylinders can be independently controlled enabling tapered OD CT strings to be run through the injector. Each cylinder has an accumulator and emergency circuit to help prevent loss of gripping force if the hydraulic source fails.

As standard the injector is fitted with 1.5-in. – 2.5-in. V-Block® gripper blocks although larger 2-in. – 3.5-in. blocks can also be fitted.

This drive arrangement provides snubbing forces and pulling forces of up to 40,000 lb (18,144 kg) and 125,000 lb (56,700 kg), respectively. Load pins mounted in the base of the injector measure the tubing loads electronically.

Mounted to the injector frame assembly is a ladder and a fall arrestor to enable safer operations when making up the gooseneck to the top of the injector or stabbing pipe.

For more information, contact your Halliburton representative or email us at production-solutions@halliburton.com.

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