

NEW PRODUCT NEWS

SCT: SELF CONTAINED TENSIONER *The Next Generation RPV Stud Tensioner Design*



Photos depict single stage unit on test block with cover on & off – showing on board pumping unit (left side) and valve manifold and electronic controls (right side). Swivel eyebolts will be mounted in Top Plate. Control Panel location shown for demonstration purposes only and will be re-positioned for clearance and protection.

SCT provides:

- *Hose Free Operation > No rigging or hose management issues; No hose leakage.*
- *Improved Floor Space Management > through On Board High Flow Pumping System*
- *One man operation > Hoist Control Handles for up/down and left/right movement*
- *Turn-of-the-switch Stud Engagement > through QD or QD-H Latching Designs*
- *Elimination of Trim Passes > with Elongation Monitoring System (EMS)*
- *Safety Interlocks > Built in Limit Switches Monitor Piston Travel and Latching*
- *Interconnecting Communication > using LCD text style status and instructional screens*
- *Quick Change-out Components > through modular design*

Power: 460-480VAC at 10 amps

Ground Fault Interruption

High Speed Industrial Network Communication Protocol

Communications via Cat 5 Ethernet Cable bundled with power distribution cable

Pressurization time: less than 10 seconds

Accuracy: +/- 15 psi at 10,000 psi maximum pressure

Optional Wireless Communication

Optional 10 Year "Long Life" Hydraulic Seals

continued.....

A new SCT includes all of the current features of the widely successful QD-H

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QD Latching: The split puller bar socket latches, through hydraulic action and a cam driven sleeve, to the RPV stud by simply turning a switch. The stud tensioner is fully hydraulic: latching, pressurization, piston return and unlatching.



The **EMS – elongation monitoring system** – to verify accurate and consistent nut seating to assure proper load retention in the stud and nut. This eliminates the potential need to perform a trim pass.

And, **Electronic Limit Switches** to monitor piston travel (for over stroke and piston return) and pull system latching



Hoist and Tractor Control Handles to permit one man to move the stud tensioner left or right around the bolt circle and lower or raise it over the studs.



Control Panel with LCD Screen to provide text instructions to operator to perform operational steps. Screen also depicts status of other stud tensioners for coordinated operation.

Control Panel includes “Latch / Unlatch” switch, Nut Signal Button (to signify to other stud tensioner operators that this nut has been seated or unthreaded) and Emergency Stop Button.

The EMS readings are displayed for all stud tensioners on each screen to allow operators to coordinate lifting off and moving to subsequent stud locations once reported readings are verified.