



TENSOR AB
TAILOR MADE HYDRAULIC SYSTEMS
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RVH TENSIONING SYSTEM

Maximize Efficiency with TENSOR's Complete Bolt Tensioning Systems

Since 1978, TENSOR has been a trusted leader in delivering complete Bolt Tensioning Systems for Reactor Vessel Heads (RVH). With over four decades of experience in nuclear power plants worldwide, we bring unmatched expertise, reliability, and innovation to every project.

At TENSOR, we offer industry-leading bolt tensioning solutions designed to enhance performance and reliability. Our systems feature state-of-the-art, digitally controlled pump units with built-in multiple redundancies for maximum safety and uptime.

Our bolt tensioners, starting from M80 (3" UNC) and above, are engineered for ease of use. They come equipped with a counterbalance device for effortless turning of the puller sleeve, an over-stroke prevention indicator, and an airdrive for smooth, efficient operation. For added convenience, we also provide quick hoists, ensuring swift handling of tensioners on the job site.

Need tailored solutions? We've got you covered with our custom tensioning and de-tensioning programs, designed to optimize your operations and deliver outstanding results.

Choose TENSOR for unmatched reliability and performance in bolt tensioning. Contact us today to learn more!



The system consists of 6 basic elements:

HOIST A quick hoist over each bolt tensioner with a low lowering speed.

BOLT TENSIONER
Steel in high tensile qualities. High force and low weight.

CONSOLE
Easy maneuvering, just two levers and a switch.

MANIFOLD - RELIEF VALVE
Quick relief of pressure 1000 bar down to 0 from up to 6 bolt tensioner in less than 5 seconds, 2 pressure gauges ϕ 160 mm.

MEASURING AND SURVEILLANCE INSTRUMENTS
Measuring instrument for measuring the pressure consists of:
Programmable electronic display with stop function.
Pressure sensor / gauge with high precision.
A chart recorder to register pressure / time.

PUMP UNIT
The pump unit is operated by a separate pressure sensor, a PLC controls and stops the pumps. The pump unit consists of high capacity pumps, all running with the high pressure pump at 100 % speed. The pump unit can also be running separately at 75%, 50%, 25% capacity and will stop pumping in +/- 1 Bar from the requested pressure by the electronic display. The pump unit uses a water-glycol mixture, a leakage can be handled as water.

KEY FEATURES AND BENEFITS

- * The compact design reduces the tensioner's weight
- * Promotes worker safety and easy handling method
- * Reduced equipment set-up/removal time
- * Less weight is added to the carousel
- * Reliable, less-complex Swedish design
- * Minimal tooling maintenance requirements
- * Fail-safe design with built-in redundancies and alternative operation modes
- * Flexible pump and console positioning to enable location in the low-dose area
- * Less than 30 seconds pressurization time, adapted to customer requirements
- * Floating piston for better tolerance towards sagging flanges

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