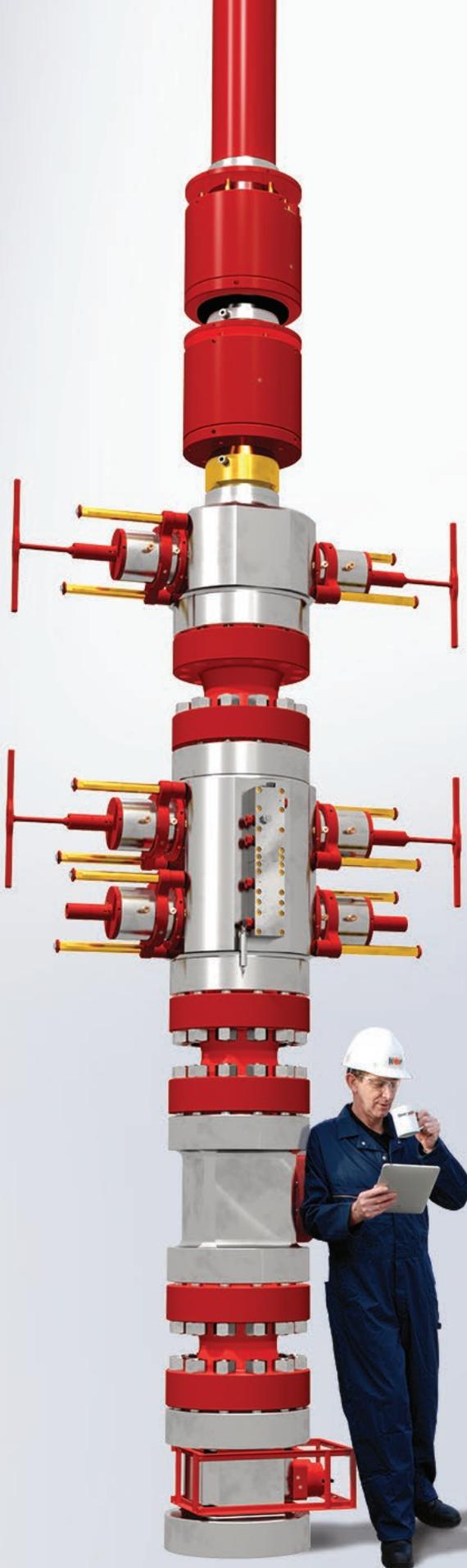


# Elmar Ultra-High Pressure WPCE



Elmar | 



**20,000 psi  
&  
30,000 psi**  
third party certified

## Solutions for your Ultra-High Pressure Wireline Operations

The safety and efficiency of your team during ultra-high pressure well intervention is our top priority. Whether your needs are 20,000 psi or 30,000 psi, NOV Elmar™ has field-proven solutions to support your slickline and wireline operations.

We proudly offer the only 30,000-psi rated wireline pressure control equipment, with government agency operational consent, in the industry. This qualification requires an experienced engineering team, innovative design solutions, industry leading analysis, and extensive testing. With test facilities to safely test up to 60,000 psi, we're ready and able to support your ultra-high pressure equipment needs.



Grease injection control module ( Zone 2)



Hydraulic control module ( Zone 2)

### Features and benefits:

- Experienced engineering team—the right people to deliver high pressure projects
  - Designed, analysed, and tested WPCE from 3,000 psi to 30,000 psi
- Innovative design solutions
  - Hydraulic latching between lubricators with quick test function to guarantee integrity and speed
  - De-gassing grease head to mitigate the risks from high pressure gas (patented)
  - Vertical control solutions to maximize control performance and safety
  - 30k rated constrictor seals (patented)
- Industry leading analysis —design validation you can depend on
  - FEA stress analysis
  - Fatigue and equipment life analysis
  - Temperature effects analysis
- Full third-party certification—independently verified performance you can rely on
- High pressure in-house testing facilities—verify performance with best-in-class testing and recording equipment

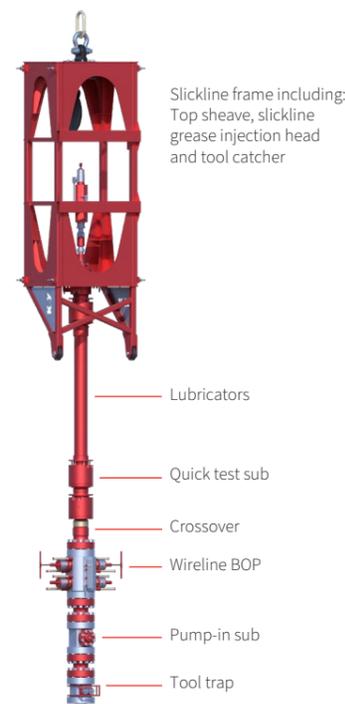
### Elmar Ultra-High Pressure WPCE

#### Familiar Equipment and Operations

Working with 20,000-30,000 psi requires a highly skilled crew who is comfortable in variable conditions and is experienced with the equipment at hand. Even when working with ultra-high pressures, with the standard Elmar WPCE operating procedures, your crew can feel confident with their operating experience.

#### This system accommodates:

- Tool trap, pump-in sub, wireline valves, hydraulic cable clamp, quick test sub, lubricators and tool catcher
- Slickline grease injection head with transport frame
- Transport frame with integral grease injection
- Braided line grease injection head with transport frame
- Dual pack-off for braided line
- Hydraulic control module
- Grease injection control module
- Transport frames for all WP
- C-Table for derrick rig-up



Note: 30,000-psi rated images



Electric line frame including: Top sheave, dual pack-off, line wiper, flotubes, tool catcher and intensifiers



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