

SERIES: **duo** Multi-stage Tensioners

**IN STOCK FOR
QUICK DELIVERY**



duo series multi-stage tensioners are versatile and reliable hydraulic bolt tensioners suitable for high load and tight space applications. Optimised for use on **wind turbines** they have been designed for long-life, low-maintenance use, and are suitable for use on single bolts, or grouped together for multiple tightening of bolted joints. **duo** tensioners are extensively used for slewing rings, power-gen applications, structural and all critical bolting.

PROCESS IMPROVEMENT

duo Hydraulic Tensioners are designed for **speed**. Fast spring piston retract, geared nut run-down and spring located sockets, improve process time on each tensioning operation. High cycle life, over-stroke protection and the latest seal technology ensure **low maintenance** operation to keep projects on schedule.

LATEST TECHNOLOGY

- Latest seal technology
- High cycle life
- Optimised load to weight ratio
- Integrated system with TensionPro pumps and hoses

SAFE AND RELIABLE

- CE marked
- Over-stroke protection
- Max stroke indicator
- Pressure Test Certification
- Full colour operating and safety manual

OPTIONS AND FEATURES

- Special threads
- Special load requirements
- Twin or single port
- Protective handle
- Special bridge for tight clearance
- Swivel connections
- Cycle counter
- Gear drive nut run-down
- Spring piston return
- Misalignment compensation
- **ARMOURMAX** anti-corrosion, anti-wear

| Bolt Thread Size | | Maximum Tensioner Load | | Tool Height | Tool OD |
|------------------|--------|------------------------|------|-------------|---------|
| T | | F | | H | A |
| inch | Metric | tonf | kN | mm | mm |
| 1 | M24 | 29.1 | 290 | 182 | 60 |
| 1 1/8 | M27 | 38.1 | 380 | 192 | 66 |
| - | M30 | 46.8 | 466 | 201 | 73 |
| 1 1/4 | M33 | 57.2 | 570 | 217 | 79 |
| 1 3/8 | M36 | 68.0 | 678 | 247 | 84.5 |
| 1 1/2 | M39 | 81.3 | 810 | 260 | 92 |
| 1 5/8 | M42 | 93.3 | 928 | 270.5 | 98 |
| 1 3/4 | M45 | 108.8 | 1084 | 289 | 105 |
| 1 7/8 | M48 | 122.7 | 1223 | 311 | 111 |
| 2 | M52 | 146.0 | 1455 | 320 | 129 |
| 2 1/4 | M56 | 168.1 | 1675 | 325 | 130 |
| - | M60 | 195.7 | 1950 | 345 | 140 |
| 2 1/2 | M64 | 225.3 | 2253 | 370.5 | 150 |

SAFETY AND SPEED

Optional durable **TWIST-GRIP** handle intergrated over the hydraulic connection for easy handling and positioning of the tool, protects the hose and inlet connection from unnecessary loading - benefiting the operator with an extra layer of safety.

