

SERIES: HTS Standard Tensioners

1500 bar pressure
15mm stroke



SAFE AND RELIABLE

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

LATEST TECHNOLOGY

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

IN STOCK FOR QUICK DELIVERY

HTS series standard range tensioners are versatile and reliable hydraulic tensioners suitable for all bolting applications. Optimised for top-side applications they are perfect for tightening ANSI, ASME and API flanges.

PROCESS IMPROVEMENT

HTS Hydraulic Tensioners are quick and simple to use. Installed by hand in minutes, multiple tools are harnessed together to give **IMPROVED SPEED** for the bolt tightening process. The even joint compression ensures uniform bolt loading and gasket compression that gives superior bolted joint performance.

OPTIONS AND FEATURES

- Special threads
- Special load requirements
- Twin or single port
- Special bridge for tight clearance
- Oil pressure calculations
- Long stroke designs
- Interchangeable parts
- High temperature options

PAL PURE AXIAL LOADING

The TensionPro Tensioner method allows bolts to be loaded with an accurate force that is directly proportional to the pressure applied to the tool. **NO FRICTION** bolt tightening for an accurate and repeatable bolt tightening method.

The tensioner load or force is easily calculated:

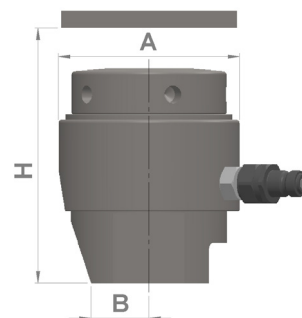
$$F = (P \times A) / 10,000$$

| | |
|--------------------|----------------------|
| Tensioner Force | F [kN] |
| Tool Pressure Area | A [mm ²] |
| Pressure | P [kN] |

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| Tool No | Bolt Thread Size | | Maximum Tensioner Load | | Pressure | Tool OD | Height Clear | Bridge Clear | Weight |
|---------|------------------|--------|------------------------|------|-----------------|---------|--------------------------------------|--------------|--------|
| | T | | F | | HPA | A | H | B | W |
| | inch | Metric | tonf | kN | mm ² | mm | mm | mm | kg |
| HTS-10 | 3/4 | M20 | 22.9 | 228 | 1519 | 74 | 110 | 27 | 3 |
| | 7/8 | M22 | | | | | 115 | 27 | 3 |
| | 1 | M24 | | | | | 125 | 30 | 3.5 |
| | 1 1/8 | M27 | | | | | 130 | 32 | 3.5 |
| HTS-20 | - | M30 | 44.5 | 443 | 2954 | 102 | 150 | 30 | 5 |
| | 1 1/4 | M33 | | | | | 150 | 34 | 5 |
| | 1 3/8 | M36 | | | | | 160 | 36 | 5 |
| | 1 1/2 | M39 | | | | | 170 | 38 | 5 |
| HTS-30 | 1 1/2 | M39 | 81.4 | 811 | 5406 | 133 | 175 | 42 | 9 |
| | 1 5/8 | M42 | | | | | 185 | 42 | 9 |
| | 1 3/4 | M45 | | | | | 195 | 44 | 9 |
| | 1 7/8 | M48 | | | | | 205 | 46 | 9 |
| | 2 | M52 | | | | | 210 | 48 | 9 |
| HTS-40 | 1-7/8 | M48 | 127.8 | 1273 | 8490 | 163 | 205 | 50 | 15 |
| | 2 | M52 | | | | | 215 | 52 | 15 |
| | 2 1/4 | M56 | | | | | 235 | 54 | 15 |
| | - | M60 | | | | | 238 | 54 | 15 |
| | 2 1/2 | M64 | | | | | 254 | 58 | 15 |
| HTS-50 | 2 1/2 | M64 | 183.6 | 1829 | 12196 | 193 | 254 | 64 | 25 |
| | - | M68 | | | | | 258 | 72 | 25 |
| | 2 3/4 | M72 | | | | | 258 | 72 | 25 |
| | 3 | M76 | | | | | 258 | 74 | 25 |
| HTS-60 | 3 | M76 | 265.4 | 2644 | 17627 | 231 | 260 | 76 | 44 |
| | - | M80 | | | | | 264 | 76 | 44 |
| | 3 1/4 | M85 | | | | | 272 | 80 | 44 |
| | 3 1/2 | M90 | | | | | 280 | 90 | 44 |
| | 3 3/4 | M95 | | | | | 300 | 100 | 40.5 |
| | 4 | M100 | | | | | 305 | 105 | 40.5 |
| HTS-70 | 3 1/2 | M90 | 361.3 | 3600 | 24000 | 275 | Dependent on application nut details | | |
| | 3 3/4 | M95 | | | | | | | |
| | 4 | M100 | | | | | | | |
| | 4 1/4 | M105 | | | | | | | |
| HTS-80 | 4 1/4 | M105 | 466.7 | 4650 | 31000 | 315 | Dependent on application nut details | | |
| | - | M110 | | | | | | | |
| | 4 1/2 | M115 | | | | | | | |
| | 4 3/4 | M120 | | | | | | | |
| | 5 | M125 | | | | | | | |

Note: HTS10 is 12mm max stroke

TENSIONER

STANDARD BOLT TENSIONER



HiSTRONG standard tensioners operating at maximum pressure of 1500 bar are designed to fit most of ANSI B 16.5, 16.47, API flanges. Custom built tensioners for applications with space constraints or high load requirements are also available. These tools have suitable surface protection for long term use in arduous conditions and have a long operating life.

A comprehensive Health and Safety Operating and Instruction Manual is provided free of charge, which provides clear and concise graphical illustrations of the equipment, its correct use & maintenance, and operating pressure data.

Additionally, we are available to provide quick response to technical questions regarding the equipment and the applications.



The tensioning tool comprises of Hydraulic Cylinder, Socket, Bridge and Puller. The Adaptor Set comprises of socket, bridge and puller.
*Pictures shown are for illustration purpose only. Actual product may vary.

■ SEAL RELIABILITY

Optimum technology composite material seals that remain firm; do not dislodge; are low maintenance; have an extended life and facilitate easy piston retraction as compared to other seal materials.

■ OVER-STROKE INDICATOR

Clearly visible red warning indicator line to show when the tool has reached its maximum piston extension.

■ HYDRAULIC HOSE SYSTEM

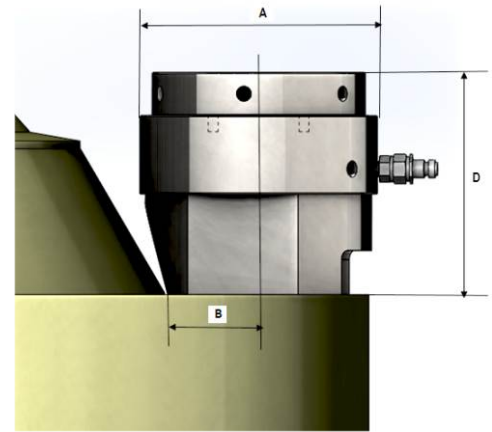
The hoses have a safety factor of 2.5:1 on maximum working pressure of 1500 bar. The quick connectors are suitable for 1500 bar operation.

■ OPTIONAL

- Automatic Piston Return for safe & fast operation
- Gear Driven Nut Run Down for nut run down ensuring firm and repeatable nut run down torques.

TENSIONER

STANDARD BOLT TENSIONER



| MODEL | BOLT THREAD SIZE | | MAXIMUM TENSIONER LOAD | | HYDRAULIC PRESSURE AREA mm ² | MAX. PRESSURE bar | STROKE mm | TOOL OD 'A' mm | RADIAL CLEARANCE 'B' mm | Tool Height 'D' mm |
|--------|------------------|------|------------------------|-------|--|----------------------|--------------|----------------------|-------------------------------|--------------------------|
| | IN | MM | kN | tonf | | | | | | |
| BST-11 | - | M16 | 233 | 23.8 | 1555 | 1500 | 12 | 73 | 31 | 102 |
| | 3/4" | M20 | | | | | | | | |
| | 7/8" | M22 | | | | | | | | |
| | 1" | M24 | | | | | | | | |
| | 1-1/8" | M27 | | | | | | | | |
| BST-12 | 1-1/8" | M27 | 443 | 44.0 | 2884 | 1500 | 15 | 105 | 42 | 131 |
| | - | M30 | | | | | | | | |
| | 1-1/4" | M33 | | | | | | | | |
| | 1-3/8" | M36 | | | | | | | | |
| BST-13 | 1-1/2" | M39 | 791 | 80.0 | 5271 | 1500 | 15 | 136 | 54 | 147 |
| | 1-5/8" | M42 | | | | | | | | |
| | 1-3/4" | M45 | | | | | | | | |
| | 1-7/8" | M48 | | | | | | | | |
| | 2" | M52 | | | | | | | | |
| BST-14 | 2" | M52 | 1267 | 129.0 | 8445 | 1500 | 15 | 172 | 65.5 | 168 |
| | 2-1/4" | M56 | | | | | | | | |
| | 2-1/2" | M64 | | | | | | | | |
| BST-15 | 2-1/2" | M64 | 1830 | 186.0 | 12197 | 1500 | 15 | 200 | 76 | 188 |
| | 2-3/4" | M72 | | | | | | | | |
| | 3" | M76 | | | | | | | | |
| BST-16 | 3" | M76 | 2502 | 255 | 16682 | 1500 | 15 | 235 | 94 | 212 |
| | 3-1/4" | M80 | | | | | | | | |
| | 3-1/2" | M90 | | | | | | | | |
| BST-17 | 3-1/2" | M90 | 2629 | 268 | 17530 | 1500 | 15 | 245 | 102 | 227 |
| | 3-3/4" | M95 | | | | | | | | |
| | 4" | M100 | | | | | | | | |
| BST-18 | 4" | M100 | 3802 | 387.7 | 25349 | 1500 | 15 | 286 | 122 | 270 |
| | 4-1/2" | M110 | | | | | | | | |
| | 5" | M125 | | | | | | | | |
| BST-19 | 5" | M125 | 4903 | 500.0 | 32688 | 1500 | 15 | 335 | 143 | 320 |
| | 5-1/4" | M130 | | | | | | | | |
| | 5-3/4" | M150 | | | | | | | | |

*2500 bar can also be provided on request.

*Tool dimensions and load value are subject to design specification.

*Spring return tensioner can be manufactured as per application requirement.