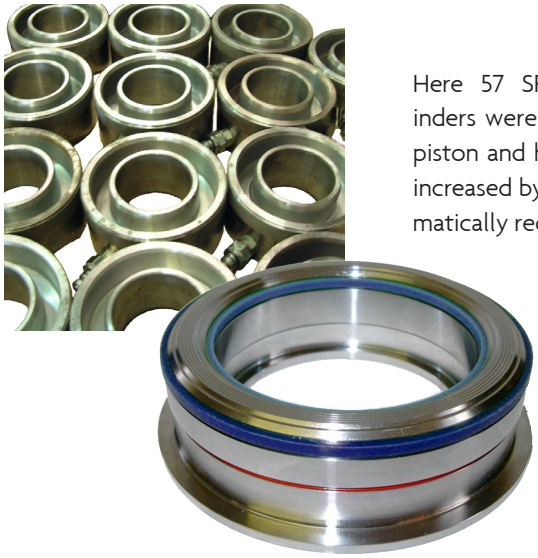




Repairing Hydraulic Bolt Tensioning Tools

Boltight manufactures parts, refurbishes and repairs bolt tensioning tools for use with competitors equipment. This is particularly helpful for customers who have equipment supplied by competitors who are no longer in the bolt tensioning business like SPS Technologies.



Here 57 SPS hydraulic cylinders are being refurbished. The cylinders were fitted with the latest Boltight composite seal, a new piston and hydraulic connector. The stroke of the tensioner was increased by 50%, the effort required to return the piston was dramatically reduced and the tool reliability was greatly increased.

The new Boltight piston and seals manufactured to refurbish old SPS tools.



Old technology piston and seal

Old style pistons with metal feather edges, which are easily damaged, as seen here, were replaced along with new composite seals to bring the old tools back to a useful life.



Cylinder after refurbishment by Boltight

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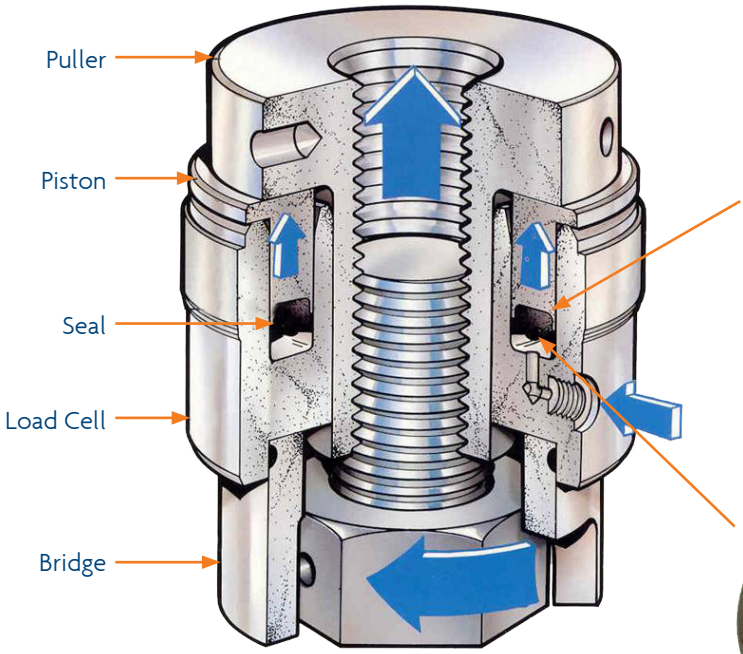
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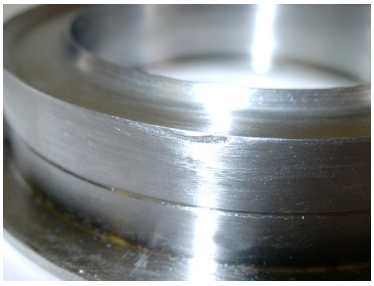




Improvements to Hydraulic Bolt Tensioning Tools

Boltight manufactures new and improved parts for use with competitors equipment. This particularly helpful for customers who have equipment which uses the older pistons and seals that were prone to leakage and easily damaged. In many cases the pistons were hard to return after use. Boltight has a solution for these problems.





Old style pistons with metal feather edges are easily damaged as seen



Old technology seals were prone to leakage and high wear rates



The Boltight piston and seals used in replacement load cells for SPS Pilgrim jacking tools

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Repairing Hydraulic Bolt Tensioning Tools

Boltight manufactures parts, refurbishes and repairs bolt tensioning tools for use with competitors equipment. This is particularly helpful for customers who have equipment supplied by competitors who are no longer in the bolt tensioning business like SPS Technologies.



Eight M76 Hydra-Tight Ltd hydraulic bolt tensioning tools are being refurbished. The tools were fitted with the latest Boltight composite seal, a new piston and hydraulic connector. The effort required to return the piston was reduced and the tool reliability was increased





The new Boltight Piston and Seals manufactured to refurbish old Hydra-Tight Ltd tools.



The original pistons were replaced along with new composite seals to bring the old tools back to a useful life.



Tool after refurbishment by Boltight

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Refurbishing Special Hydraulic Nuts

Boltight manufactures parts, refurbishes and repairs hydraulic nuts and bolt tensioning tools originally manufactured by other suppliers. This is particularly helpful for customers who have equipment supplied by companies who are no longer in the bolt tensioning business.

Hydraulic nuts after refurbishing by Boltight



Special M76 hydraulic nut test pressure 1500 bar



Special M64 hydraulic nut test pressure 2275 bar

23 off M76 and 45 off M64 special hydraulic nuts were refurbished. The refurbished nuts were fitted with the latest Boltight composite seal, a new piston and hydraulic connector.

Previously the customer, a nuclear power station, had experienced seal leakage, leakage from the connectors and severe problems returning the pistons after use. When the new pistons and seals were fitted, the effort required to return the piston was greatly reduced, the reliability was improved and the leakage problems were eliminated.

The old piston and seal



New Boltight piston and seal



New hydraulic connector



The new Boltight pistons and seals manufactured to refurbish the hydraulic nuts.

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Refurbishing Hydraulic Bolt Tensioning Tools

Boltight refurbishes, repairs and manufactures parts for any competitors equipment. This is particularly helpful for customers who have equipment supplied by competitors who are no longer in the bolt tensioning business like GKN Pilgrim Systems, SPS Technologies and HTD Ltd.







Here a set of M36 Hydra-Tight Ltd hydraulic bolt tensioning tools have been refurbished. The tools were stripped down, cleaned and each component was examined.

New seals and parts were fitted where required. The tools were then assembled and pressure tested.

A pressure test certificate was supplied and the tools were returned to the customer.







Tool after refurbishing by Boltight

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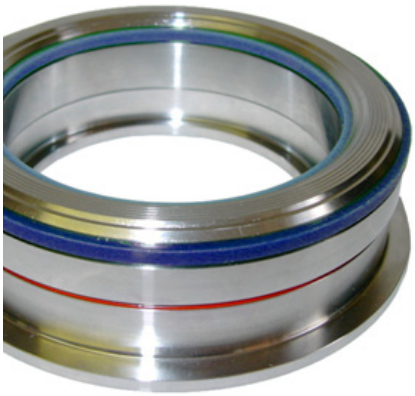


Replacing Tyres in Load Cells and Hydraulic Nuts

Tyre seals were introduced in the late 1960's and provided a simple means for sealing very high pressures (as high as 2275 bar).



Originally designed for use in the Pilgrim Nut which is intended to be installed and left for long periods, the tyre was satisfactory. However with increased use the tyre soon became prone to extrusion damage and leakage.



Today Boltight has modern high pressure seals manufactured from composite materials which have great wear and extrusion resistance combined with vastly superior sealing performance.

This technology can be retrofitted to existing equipment to make the tyre seals redundant. Retrofitting requires the existing pistons to be replaced.



The old tyres and pistons with metal feather edges, which were prone to damage, are replaced. At the same time the load cell or hydraulic nut body is refurbished ready for the new pistons and seal.







A Load Cell is seen after the tyre seal and piston have been replaced with the latest Boltight piston and seals.

The body has been refurbished, a new quick connector has been fitted and the load cell has been pressure tested before being returned to a more useful life.

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