

The Shaft Tensioning & Worm Forcing Jack

Hydraulic Shaft Tensioning

It is essential that the Shaft End Nut on a Worm Assembly is fully tightened. If not the process material will seep between the Worm Assembly Parts and get on to the Shaft. Resulting in corrosion of the Shaft and Parts that can be extremely difficult to remove from the Press.

On a large modern Press the Worm Assembly simply cannot be done up tight enough by hand to prevent this ingress of process material between the Parts.

The Rosedowns Hydraulic Shaft Tensioning System use a Hydraulic Jack to press the Worm Assembly Parts together with over 100 Tonnes of Force. The Shaft End Nut is then simply hand tightened to keep the parts in position when the Jack is removed.



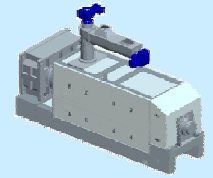
The Jack is also used to release the Shaft End Nut. The Jack is fitted and pressurised to take the load off the Nut which is then simply released by Hand.



Because the Shaft Jack is a tool kept separate from the Press. One jack can be used to maintain several Presses.

The Hydraulic Shaft Jack and its accessories is available for all the Presses in the Sterling Series and many of our older models.

The system can also be provided for some Presses supplied by other manufacturers. Contact us for more details



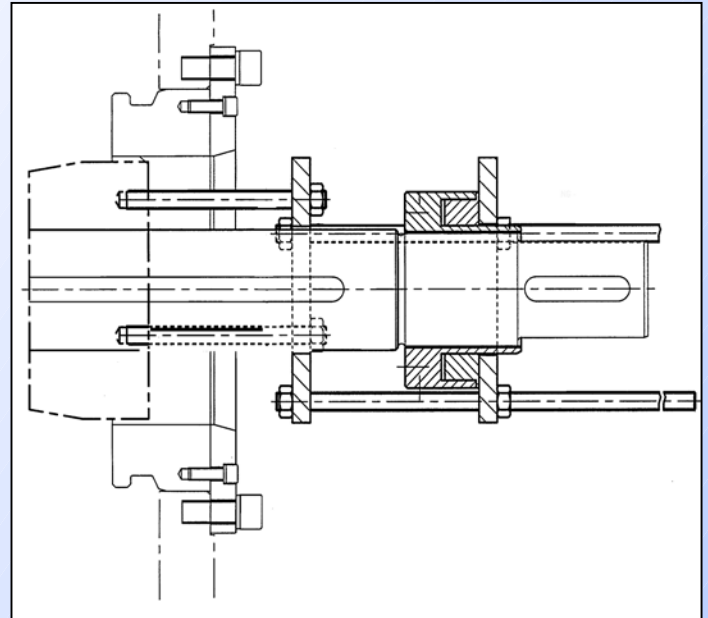
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The Worm Forcing Jack

Some times despite every possible precautions process material will get between the worm segments and on to the Shaft. This can result in Parts seizing onto the Shaft and causing a major problem when undertaking replacement of the Worm Assembly Pieces.

Remove Seized Parts from the Shaft Without Heat - Without Large Hammers.

The Rosedowns Worm Forcing system utilises the standard Shaft Tensioning Jack to provide all the pull necessary to remove even the most stubborn part smoothly and safely from the Shaft.



Quickly Remove Tight Parts.

For Parts that are not seized on the Shaft but rather are just difficult to remove by hand, then the secondary Lower Pressure, Long Stroke Jack may be used.

This provides enough force for most parts and greatly increase the movement of the Part with each use of the Jack.

Easily Remove Seized Parts

The Hydraulic Shaft Jack is fitted in the Pulling Position on to the Threads at the Shaft End. A set of Threaded Rods and Connecting Plates are used to connect the Jack to Extraction Holes in the back of Rosedowns Parts.

- **Mounted on directly on the Shaft**
- No external forces or attachment..
- **The Pulling Force is applied directly to the Part, in the direction of movement.**

Once the jack has been extended the Pressure may be released and the Nuts on the Threaded bar are tightened against the Jack plate to close the jack and prepare it for the next pull.

No Repositioning of the Jack or mounting Plates is required once the System is in position.