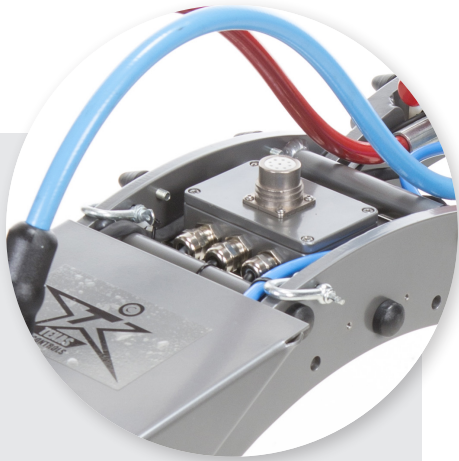


Shrink Disc

Automatic Tightening System





B/ Hoisting points

The frame includes hoisting points for an easy and safe manipulation of the system.



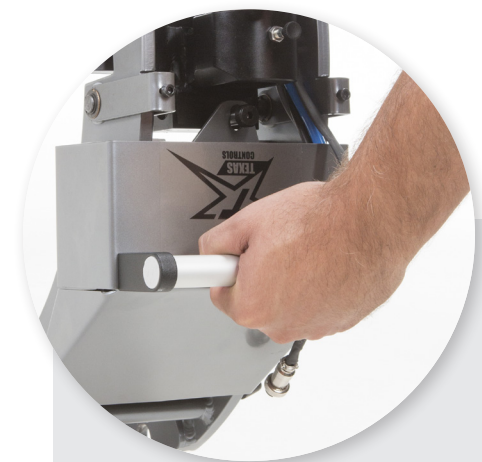
A. Special Impact Sockets

Optimized design for an improved action. Adapted for any A/F sizes.



D/ Display & Camera

Under request, a display and small camera allows the operator to visualize the diametrically opposed torque wrench.



C/ Safety Handles

The operator manipulates the system only with one hand, by a safety handle, avoiding the risk of entrapment and pinching points of the torque wrenches.

The Shrink Disc MultiTorque Tightening System by Texas Controls, it's a patent pending device, for mechanical Shrink Discs tightening, specially designed for Wind Industry high-performance nacelle plants. This system includes a High Flow PowerPack, PLC controlled, programmed with SmarTorque algorithm and a Supporting Frame fully customizable for every Shrink Disc Application. There are different versions for 2 a 4 torque wrenches, to be controlled only by a single or two operators.

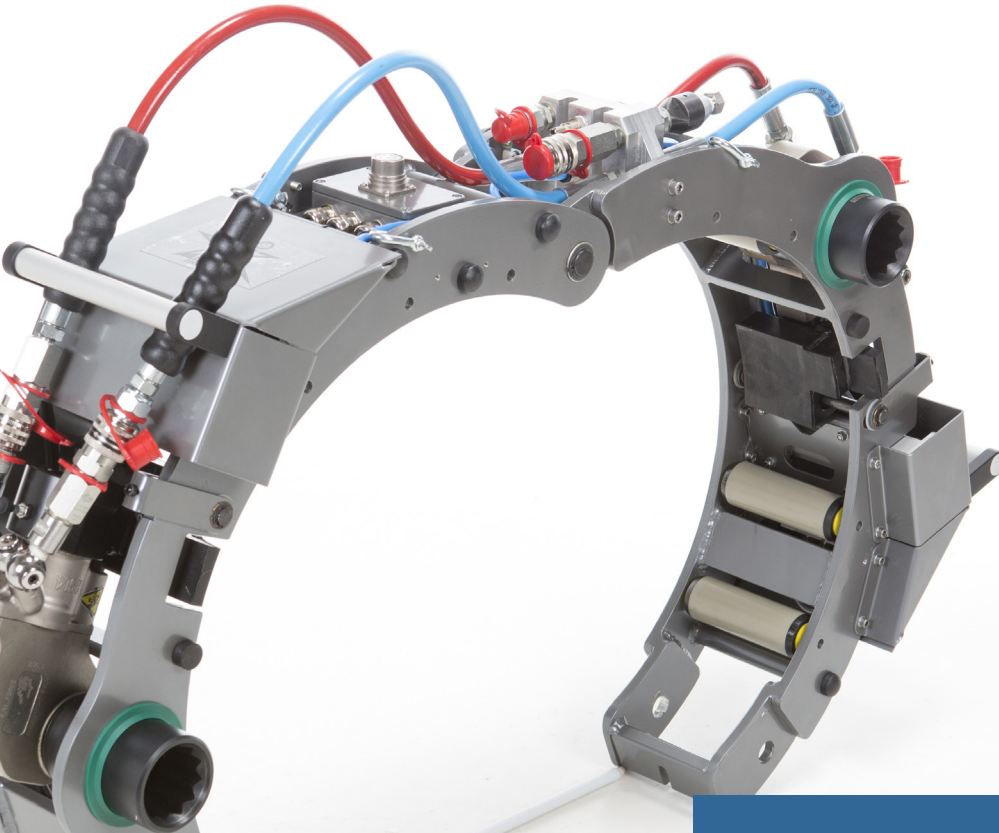


Conectivity

The Supporting frame has fully connectivity to the HighFlow Powerpack through different connectors (electronic control, hydraulic and pneumatic power). The operator, therefore, controls the full suestem via a single control handgrip. This ergonomic handgrip includes the positionig control of the wrenches as well as the tightening process.

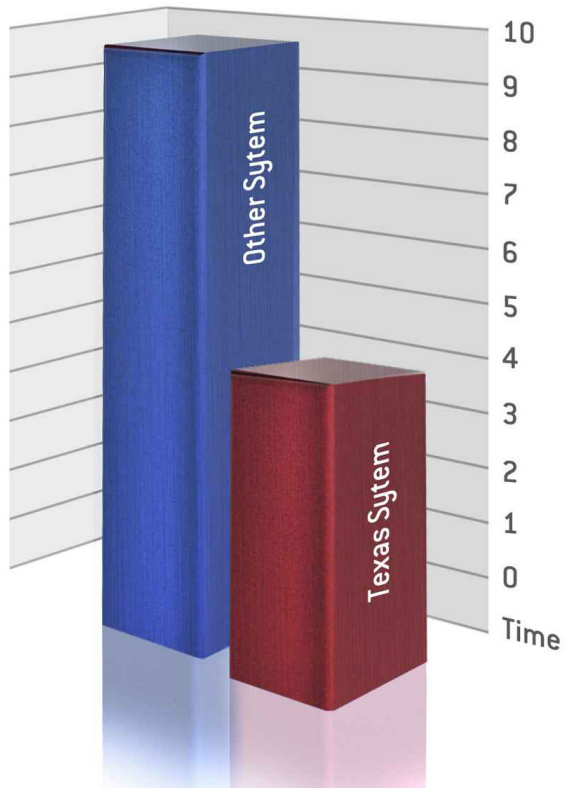
Custom design and Smart Hydraulics

The Shrink Disc MultiTorque System is customized to every single customer application. Two or four wrenches are controlle by the suestem that includes an exclusive algorithm, developed by Texas Controls to optimize the piston movement of the wrenches. This software speeds up the tightening process by more than a 30% compared to other automatic torque powerpacks, reducing power consumption and increasing the efficiency. We could consider this algorithm, the core of the system.



Security and Ergonomy

The Shrink Disc MultiTorque System by Texas Controls, allows to face a slow, tedious and physically demanding task as the shrink disc tightening, ina simple, fast and comfortable way. System operators keep their hands away from the dangerous areas during the tightening tasks and do not have to bear the weight of the hydraulic wrenches. The frame, manufactured in aircraft aluminium, guarantees lightness and strength of the system and allows a easy handing at the plant.



Single user, twice faster

Shrink Disc MultiTorque System by Texas Controls reduces the time-consumption of the tightening process by 60%, allowing to be performed by a single operator.

Efficiency in Investment

The cost of investment of the Shrink Disc MultiTorque System is much lower compared to other systems based on direct tension techniques. Our system uses standard torque wrenches, easy to be removed from the frame, that could be employed in standard torque operations at the Manufacturing plant.

The PowerPack can be used in manual mode as well as with standard wrenches, accelerating the return on investment.

