

PrecisionExpander

Precision Mechanical Applications

Applications

- Expansion of collapsed TR-DHSV flow tubes
- Repair of damaged mule shoe
- Repair of slightly collapsed/dented production tubing

Features and Benefits

- E-Line deployed/powered device with real-time measurement and control
- Stroker axial force amplified to a high radial force (circa 4x)
- No axial force applied onto damaged area
- Precise control of expansion OD (0.1 mm resolution)
- Unlimited expansion cycles
- Inherent fail safe functionality
- Immediate drift verification capability
- In-well repair solution, minimizing time, cost and risk exposure
- Precise, light on logistics, footprint and personnel

The **PrecisionExpander** is designed to repair damaged completion components e.g. DHSV flow tubes, mule shoes and slightly collapsed production tubing, thus re-enabling component functionality and/or wellbore access. It is run in combination with the **PrecisionStroker**, converting the stroker axial position and force to a radial position and force.

Typical properties

Service name	PrecisionExpander 318
Minimum OD ¹	3.38 in. (86.0 mm)
Maximum Expansion OD ¹	6.86 in. (174.0 mm)
Length	5.42 ft (1.65 m)
Pressure Rating	N/A
Temperature Rating	350°F (177°C)
Axial Force	As per PrecisionStroker spec
Maximum Radial Force ²	132,300 lbs (60,000 kgs)

¹ Dependent on Expander dog size used

² Dependent on friction factor

