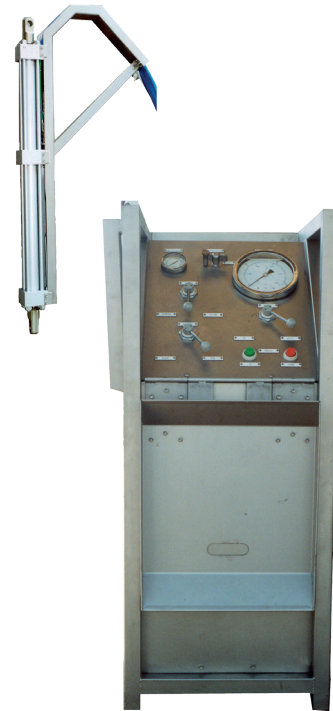


Well Construction

Frank's Tubular Running Services (TRS) - Completion Technologies

Backpacker™ Compensator System

The Backpacker™ compensator system is designed to aid in the running and pulling of premium threaded tubulars. Use of this system allows the driller to position the add-on joint or stand, just above the box connection. From that point the Backpacker™ controls all joint/stand movement. The Backpacker™ is referred to as the "intelligent compensator" due to its unique feature whereby each joint or stand is individually weighed by the Backpacker™ system. Using the unique joint or stand weight, the Backpacker™ allows the joint or stand to be compensated such that only a minimum axial load is applied to the pin/box threads being made up. With this level of compensation control, premium connections can run with confidence that the pin nose will not be damaged during stab-in and galling will be greatly reduced or eliminated.



Features and Benefits

- Compensates the joint or stand weight so very minimal load is applied to the connection threads during make-up or back-out
 - Reducing the risk of thread damage such as galling
 - Increasing the likelihood of successful first time make-ups
 - Reducing the risk of back-outs and layouts when running pipe
 - Maximising running efficiency and minimising risk of Non-Productive Time
- Intended for use when making-up or backing-out threaded connections
- Particularly when running or pulling Chrome & CRA tubulars when risk of galling is high
- Suitable for use with single joints or stands of pipe
- Can be configured for use above or below Side Door Elevators or Slip Type Elevators
- Compatible with Automated Single Joint Elevators for a hands-free running of threaded and coupling pipe
- Compatible with Clamp Type Elevators for hands-free running of flush or semi-flush pipe
- Comes standard with Remote Control Console enabling remote control from a safe area out with the Red Zone

Note that most OCTG manufactures recommend compensating joint weight when running Chrome & CRA tubulars.

Specifications

Cylinder Length Retracted	55.1 inches [1,400 millimeters]
Cylinder Length Fully Extended	88.6 inches [2,250 millimeters]
Unit Air Supply	120 pounds per square inch [8 bar]
Control Unit	110 pounds [50 kilograms]
Available Sizes	1.5 tons, 5.0 tons, and 8.5 tons
Dimensions provided are approximate and do not include associate rigging	