

# THE BACKPACKER

## “The Intelligent Compensator”

Foreign and Domestic Patents



The Backpacker is a single joint pick-up cylinder designed to aid in the running and pulling of premium threaded tubulars. Throughout the make-up or back-out procedures, the Backpacker holds a predetermined weight on the connection. This allows connection to be made-up or backed-out without the galling of threads which are normally caused by excessive weight of the joint (on the connection). After lifting the first joint, the Backpacker memorizes the weight of the joint and uses this weight as a benchmark for compensation of each of the following joints, recalibrating with each joint thereafter. Other features include:

***Stainless Steel Remote Control Cabinet  
with AirHydraulic Control System  
controlled from rig floor***

***Lift Cylinder working stroke at 2.3 inches  
per minute***

***Works during make-up or back-out***

***Connecting Hose Bundle***

### “GENERAL SPECIFICATIONS”

Max Tubing Cylinder Working Load	1500 kg	3,307 lb
Max Casing Cylinder Working Load	4537 kg	10,000 lb
Working Stroke	500 mm	19.7 in
Unit Air Supply	8 bar	120 psi

#### **DIMENSIONS**

Cylinder Length Retracted	1400 mm	55.1 in
Cylinder Length Fully Extended	2250 mm	88.6 in
4 Core Hose Bundle Length	30 m	98.4 ft
Control Unit Dimensions	600x500x1200 (height) mm	23.6x19.7x47.2 (height) inches

#### **WEIGHTS**

Cylinder + Hose Bundle	120 kg	150 lbs.
Control Unit	215 kg	110 lbs.

## “FREQUENTLY ASKED QUESTIONS ABOUT THE BACKPACKER”

### 1. Does the Backpacker slow down the running of the pipe?

**ANSWER:** Yes, the BackPacker is a little slower, but running premium connectors should be run slower to prevent damage.

### 2. Can you use the Backpacker for pulling pipe?

**ANSWER:** Yes, the Backpacker is extremely helpful during the pulling procedure, especially with premium threads. The Backpacker helps keep the load off of the threads while backing out pipe and prevents snagging or damaging of final thread.

### 3. How long does it take to rig-up the Backpacker?

**ANSWER:** Rig up time takes about 45 minutes.

### 4. At what time does the backpacker take over from the driller?

**ANSWER:** The driller is instructed to lower the pipe between 2 and 4 inches above the box. From this point, the BackPacker takes over.

### 5. Is the system hydraulic or air operated?

**ANSWER:** It is air over hydraulics.

### 6. How much weight is on the threads when running or pulling pipe?

**ANSWER:** When running or pulling pipe the most weight the threads will have is 50 pounds.

### 7. What is the BackPacker rated at?

**ANSWER:** Frank's has two models rated at 1½ tons and 5 tons.

### 8. Can the BackPacker be used with Frank's Fill-Up tool?

**ANSWER:** Yes, with additional accessories you can run the Backpacker with the fill-up tool.