



**TSE INTERNATIONAL, INC.
MODEL UP85BDTA TRAILER MOUNTED UNDERGROUND
PULLER / AIR COMPRESSOR WITH TELESCOPIC JIB**

Performance

- * In the low speed range the unit has a maximum continuous linepull of 8,500 lbs. and a maximum speed of 75 fpm.
- * In the high speed range the unit has a maximum continuous linepull of 4,250 lbs. and a maximum speed of 150 fpm.
- * In either speed range the linespeed is infinitely variable from 0 to maximum.
- * The speed control provides excellent inching capability throughout all linepull settings.

Engine/Compressor

- * 74 Horsepower water-cooled, four cylinder, diesel engine with electric starter.
- * Screw type compressor rated at 210 CFM and 125 PSI.
- * Engine shut down system for low oil pressure, high coolant temperature, and high compressor temperature.
- * Engine ignition key and throttle.
- * 12 Volt electrical system with a lockable steel battery box.
- * 25 Gallon fuel tank with a level gauge.

Bullwheel Drive System

- * Hydrostatic drive with a variable displacement axial piston pump and a two speed hydraulic motor.
- * Infinite speed control in either direction.
- * Two bullwheels each with 5 grooves and 8-inch pitch diameter.

Storage Reel

- * Driven by a direct-coupled hydraulic motor to automatically take up and payout the pulling cable when the bullwheel drive is operated.
- * Will hold 2,300' of 7/16 inch or 2,700' of 3/8-inch diameter steel pulling rope.
- * Automatic reel brake that applies with the shutdown of the hydraulic system to keep the storage reel from unwinding the cable when not in use. This brake will release as the hydraulic or engine is running.

Automatic Levelwind

- * Diamond leadscrew automatic levelwind provided for even winding of the pulling rope onto the storage reel.
- * The levelwind is driven from the storage reel and automatically traverses as the reel turns.

Cable Exit Fairlead

- * An 8-inch swiveling rear fairlead sheave is provided to guide the pulling rope into the machine. The sheave pivots through 360 degrees and has a locking screw to set it at any angle.

Cable Payout System

- * Cable payout is on demand with the bullwheel drive system feeding the pulling rope when any load in excess of 1 lb. is placed on the cable.
- * The cable may be blown directly into most round ducts by using an air compressor and optional blowing tools.

Hydraulic Jib (located at rear of unit)

- * The new hydraulic jib is designed based on the following requirements:
 - 70 degree sweep left to right
 - 90 degree vertical lift, from horizontal to vertical
 - Telescoping boom with 30" travel
 - 8,500 lb. line pull capability at any position the boom can reach
 - All motion of all equipment is hydraulically actuated.
 - Three Head Roller Assembly that attaches to the top of the jib.

Remote Emergency Stop Control

* The unit is equipped with an emergency stop control on a 20-foot long pendant cord. In the event the button is depressed all pulling will stop. To start the pull again, from

Instruments and Controls

- * Air pressure control and gauge.
- * Control lever for pull in, neutral, payout and speed.
- * Dynamometer gauge calibrated in lbs. of linepull with an adjustable overload cut-off, which will automatically stop the pull if the preset maximum linepull is reached.
- * Electronic digital distance indicator which reads the footage of pulling rope in either pull in or pay out.
- * High / Low speed pulling control switch.
- * Receptacle for attaching remote emergency stop pendant control.
- * Soap blower canister with directional cut-off valves.
- * Real-time monitoring with our Plus-One system (line speed, line pull, distance, etc.)

Trailer and Undercarriage

- * Single axle, 8,000 lb., spring type with electric brakes.
- * Standard pintle eye with 3-position height adjustment. No tools are required for adjustment.
- * Standard LED highway lighting with dual tail light system.
- * One front hydraulic jacks.
- * Heavy-duty checker plate fenders.
- * 215/75R17.5 "H" tires rated at 4805# each.
- * One side mounted toolbox (14x14x24) for blowing tool or air hose storage.
- * Entire unit is made in the USA with hydraulic components that are commonly available and uses SAE standard tools instead of metric.
- * The unit is sandblasted, primed and painted with two coats of polyurethane finish paint.

Additional Options

- * 2,000 feet of 7/16" galvanized steel pulling rope
- * Spring driven reel for air hose storage and automatic retrieval, mounted on the unit, 50 feet of 3/4 inch hose and lubricant injector.
- * TSE SW-15-LS pulling swivel (9,000 lb.) (Quantity 1)
- * Blowing adapters and projectiles for 2", 3", 4", 5", & 6" ducts