

Trenchless Systems Inc, - TSI-40 PipeWinch

The PipeWinch is designed to assist in replacing aged or damaged service laterals. The machine is primarily designed to replace service laterals – 2 in. pipe and under. This is accomplished by inserting a steel cable (wire rope) through the existing pipe and connecting one end of the cable to the PipeWinch while connecting the new pipe to be installed to the opposite end of the cable. The PipeWinch extracts the old pipe from the ground and the new replacement pipe is simultaneously pulled into place.



Feature	Specification
Dimensions (L x W x H)	46 in. x 26 in. x 32 in.
Machine Weight	approx. 1,800 lbs.
Machine Lift	Backhoe or Excavator
Drive System	Electric over Hydraulic
Maximum Torque	14,000 ft. lbs.
Maximum Pulling Force	42,000 lbs. (21 tons)
Drum Rotation	Bidirectional
Engine	10hp Honda 4 Stroke (Gas)
Start	Electric/Recoil
Controls	Microprocessor-Controlled Remote Pendant (Forward, Reverse, Start, Stop, Pulling Force, Cable Select)

Pipe Size	Working Strength	Breaks at (lbs.)
3/8 in.	2,800 lbs.	15.51 k
1/2 in.	4,800 lbs.	27.32 k
5/8 in.	6,800 lbs.	39.14 k

Length of Pipe	Aprox. Pull Time
25 ft.	6 min.
50 ft.	10 min.
75 ft.	15 min.
100 ft.	20 min.

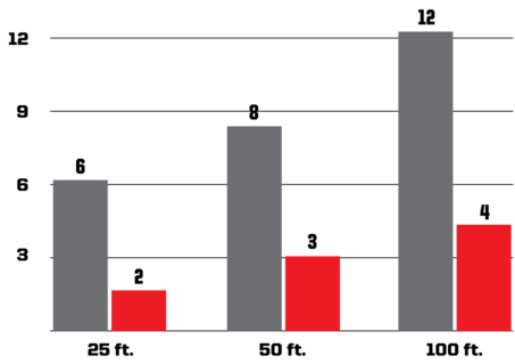
Pipe Size	Length of Pull	Recommended Cable Size
1/2 in.	up to 50 ft.	3/8 in.
3/4 in.	up to 150 ft.	1/2 in.
1 in.	up to 150 ft.	1/2 in.
1-1/4 in.	up to 100 ft.	1/2 in.
	over 100 ft.	5/8 in.
1-1/2 in.	up to 50 ft.	1/2 in.
	over 50 ft.	5/8 in.
2 in.	up to 40 ft.	1/2 in.
	over 40 ft.	5/8 in.

Type of Pipe	Aprox. Drum Capacity
1 in. Copper	150 ft.
1 1/2 in. Copper	120 ft.
1 in. Galvanized	120 ft.
1 1/2 in. Galvanized	80 ft.
3/4 in. Steel	150 ft.
1 1/4 in. Steel	80 ft.

TIME & MONEY

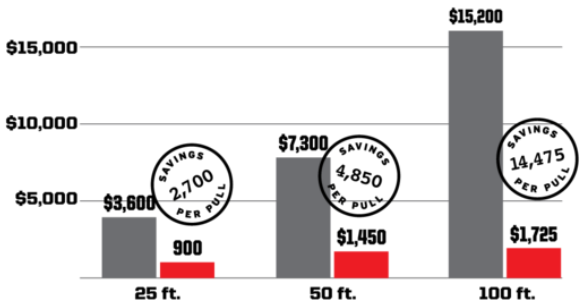
Average time in hours per pull using the PipeWinch.

■ Open Trenching
■ Using TSI-40



Approximate cost savings per pull using the PipeWinch.

■ Open Trenching
■ Using TSI-40



Average cost savings based on fifty 25 ft. pulls using the PipeWinch.

■ Open Trenching
■ Using TSI-40

