

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. |

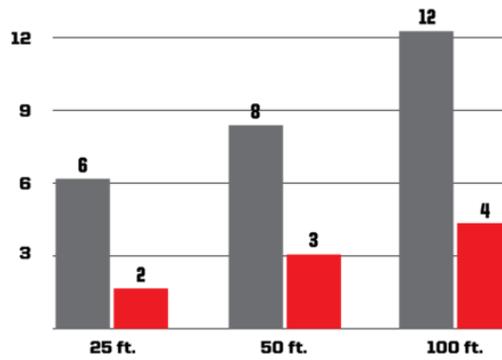
| Pipe Size | Length of Pull | Recommended Cable Size |
|-----------|-------------------------------|------------------------|
| 1/2 in. | up to 50 ft. | 3/8 in. |
| 3/4 in. | up to 150 ft. | 1/2 in. |
| 1 in. | up to 150 ft. | 1/2 in. |
| 1-1/4 in. | up to 100 ft. over 100 ft. | 1/2 in. 5/8 in. |
|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

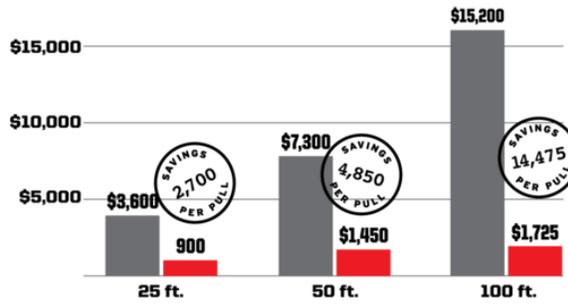
Average time in hours per pull using the PipeWinch.

■ 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

