



## TUF-Lugger™

The DCD TUF-Lugger™ is a cable puller that is designed to accommodate most pulling requirements up to a 5,500 lb load.

The unit is fully assembled and is mounted on four wheels making it portable and easy to move into any pulling location. It includes a foot pedal start/stop switch, four duct guides to suit 2", 3", 3-1/2", and 4" Schedule 40 duct, and a steel tool box carrying case.

The TUF-Lugger™ is driven by a removable TUF-Lugger™ Lite (41000-500), which can also be used for other applications. The frame is fitted with a feed-out sheave, which allows the operator to stand clear of the line of pull. An optional load cell indicator with monitoring software can also be installed.

There are two arms which combine to allow access to both overhead and underground ducting.

Note: This product is not to be used for any purpose other than pulling cable through conduit. A duct guide must always be used in order to lock the unit into position – without this, it is possible or likely that the entire unit will lift off the floor and may cause damage or severe injury.



Part No.	Description	Power Info	Maximum Pulling Force	Maximum Speed	Work Cycle	Maximum Height Reach	Weight
42600-000	TUF-Lugger™ Cable Pulling Device	115V, 10 amp (Requirement)	5,500 lb	9.3' per minute	15 minutes per hour	6-1/2'	237 lb
40000-001	Voltage Converter (220V to 110V)	3,000 watts (Limit)	-	-	-	-	27 lb

The basic TUF-Lugger™ has many features not normally found on this type of puller:

**Rope Deflector Sheave:** In the event that the rope should break, the tension in the rope could cause severe injury. With the deflector sheave, the operator may stand well clear of the pulling equipment and in particular, the line of pull.

**Open-sided Duct Guides:** These allow insertion or removal from the pull at any time. It should also be noted that the sheave is positioned immediately above the duct guide always ensuring that the rope or cable does not drag along the edge of the duct. The open side also allows positioning of the duct guide right up against a wall or junction box.

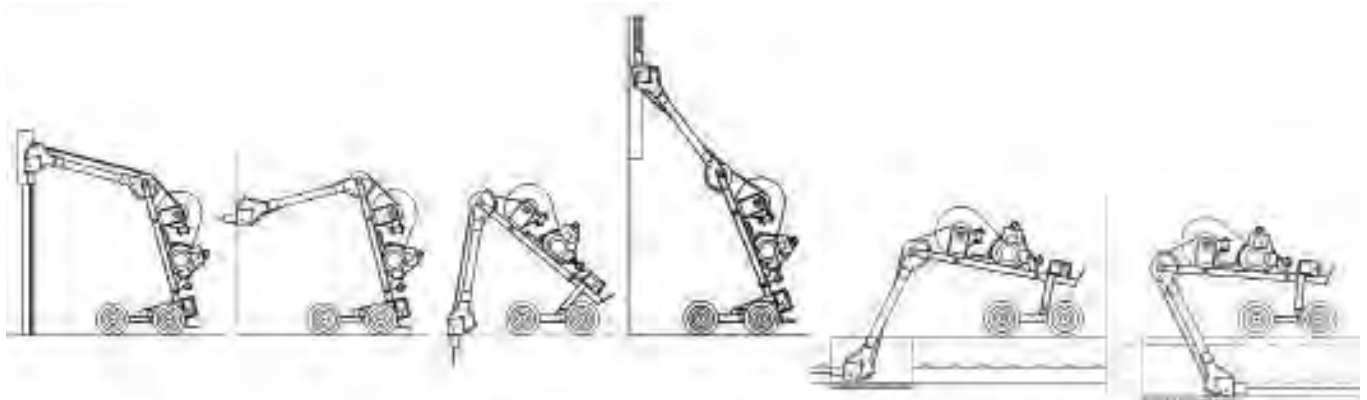
**Extendable Arms:** The outer beam of the TUF-Lugger™ is made up of 2" Schedule 40 aluminum pipe. Contact Customer Service for extensions to reach up to higher locations or into manholes, etc.

**Single Speed Simplicity:** The TUF-Lugger™ is powered by the TUF-Lugger™ Lite (41000-500). The smooth capstan allows the operator to reduce tension at the rope deflector sheave and slip the rope to reduce pulling speed without shredding the rope. For better slipping and lower loads, fewer wraps around the capstan may be used.

**Fine Indexing:** The duct guides can be indexed in 7-1/2 degree increments in order to allow better alignment with the duct opening. In addition, there are 2 separate pins that hold the duct guide in position. They are short pins located from either side to allow unimpeded passage of the rope or cable.

**Well Balanced Design:** The TUF-Lugger™ requires no field assembly and allows for easy fold down of the unit for pushing or pulling by hand. A minimum amount of force is required to tip the unit onto two wheels for steering or turning in tight areas.

All the above features are standard, but there is more – chrome plated shafts and iron-bronze bushings on all sheaves, brass serial number plate on every unit, heavy duty chains on the sprocket drives, powder coated paintwork, stainless steel securing pins at all elbows and more.



## Load Monitor System

The Load Monitor System is a self-contained package that will accurately determine pulling load within 10%. It features a USB and Bluetooth connection that will work with Windows or an Android App for use with a tablet or phone.

Data can be saved in CSV (comma separated value) format that can be read or manipulated in Excel. The app includes user defined load limits, email and visual warnings, and a user adjustable calibration factor. The load cell operates on two AA batteries.

This system is available in two different kits, which include load cell mounting hardware and brackets. Total installation time is less than 15 minutes. The installation can be left installed for transporting or easily removed for use in another application.

Features include:

- Downloadable software app from DCD website
- Adjustable calibration factor allows for custom user applications



Part No.	Description	Pre-Programmed Range	Weight
40000-250	Load Monitor Assembly	-	0.7 lb
40000-260	Load Monitor Kit for TUF-Lugger™ Lite	0 to 2,500 lb	0.7 lb
40000-270	Load Monitor Kit for TUF-Lugger™	0 to 6,500 lb	0.7 lb

## TUF-Lugger™ Manhole Adapter

The Manhole Adapter is designed to straddle the open manhole and provide an anchor point for the TUF-Lugger™. It has two tabs that locate inside the manhole for safety. These are easily adjustable without the need for any tools or wrenches.

The "bridge" through which the cable is pulled slides easily along the length of the adapter allowing easy positioning to match the cable location. In the event of difficulties during the pull, the entire unit can be assembled around or removed from already positioned pull rope or cable.

The unit is mostly aluminum and is lightweight and easy to handle. A 6" duct guide (40010-600, not included) must be used to locate the TUF-Lugger™ in the Manhole Adapter.



Part No.	Manhole Size Range	Materials	Weight
40000-300	18" to 36"	Aluminum, Polyurethane	63 lb

## Floor Mounting Frame

The Floor Mount Frame is designed to be secured to a concrete floor and provide an anchor point for the Power Pack. The construction is simple and assembly of the Power Pack takes only minutes. Caution must always be exercised to use the correct securing bolts - 5/8" Hilti Bolts or equivalent - and to install them as per the manufacturer's recommendations.



Part No.	Securing Bolt Type	Securing Bolt Pattern	Weight
40000-400	5/8" Hilti Bolts	32" x 12"	19 lb

## Universal Extension

The Universal Extension frame is designed to get to those really hard to reach corners and still be able to locate the duct guide squarely into the ducting.

It mounts directly onto the end of the standard TUF-Lugger™ with all the existing hardware that comes with the TUF-Lugger™. The unit has the ability to be rotated 90 degrees in either direction thus giving total flexibility inside a manhole to reach any location. The Universal Extension is provided with short aluminum tubes, but it is likely that they will not be suitable for all applications. It is up to the contractor to obtain 2" pipes of a length to suit any particular application.

The outboard end of the extension is identical to that of the TUF-Lugger™ thus allowing the normal use of the duct guides.

It is possible to assemble more than one of these extensions such that when coupled together, they provide the ability to fully turn a corner.

Care must be taken when assembling this extension because until load is put onto the TUF-Lugger™, the entire unit will be very unstable – once load is applied, all the arms will tighten up under the tension and it will again become stable.



Part No.	Overall Length	Weight
40000-500	41-5/16"	43 lb

## TUF-Lugger™ Duct Guides

The duct guides are designed to locate inside the ducting and provide an anchor point for the TUF-Lugger™ to pull against. These and all other units are also available individually. Each duct guide has mounting holes for attachment to the last sheave on the TUF-Lugger™.

The assembly of the duct guide to the TUF-Lugger™ is reversed for upward direction as opposed to downward direction. Each unit also has a pair of holes used for indexing the position of the guide in increments of 7-1/2 degrees. All DCD duct guides are open on one side to allow easy installation or removal without feeding over the cable or pulling rope.



Part No.	Duct Guide Size	Weight
40010-200*	2"	5.23 lb
40010-250	2-1/2"	5.31 lb
40010-300*	3"	5.60 lb
40010-350*	3-1/2"	5.94 lb
40010-400*	4"	6.28 lb
40010-500	5"	8.23 lb
40010-600	6"	8.50 lb

\* Included with TUF-Lugger™ (42600-000).