

Cable Burster
TERRA-EXTRACTOR X 400

Swiss made



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MAIN CLAMP

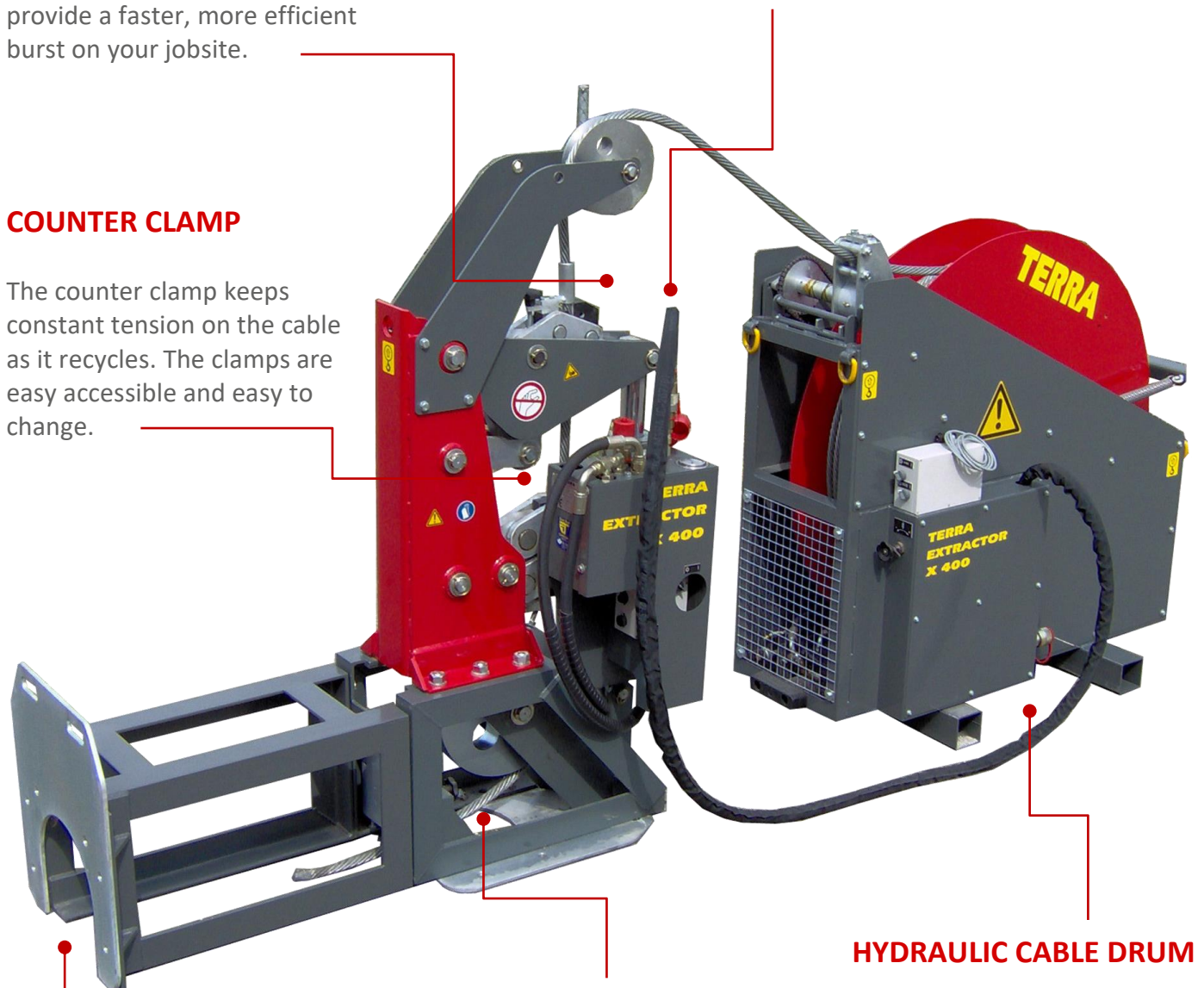
The main clamp is equipped with two patented clamping jaws. They hold the cable in place, even if it gets dirty or wet. They provide a faster, more efficient burst on your jobsite.

40 TONS OF PULLING FORCE

The strong cylinder gives you 40 tons of pulling force for highly productive main line replacement.

COUNTER CLAMP

The counter clamp keeps constant tension on the cable as it recycles. The clamps are easy accessible and easy to change.



FRONT PLATE AND FRONT BOX

The durable front plate stabilizes the X 400 against the underground. All bursting tools and the new HDPE pipe can be pulled into the 0.8 m long front box. Optional TERRA offers longer front boxes. This makes it easy to disassemble the tools in the pit.

PULLEY

The pulley deflects the pulling cable from horizontal to vertical position. This minimizes the required pit. Widen your margins, not your pits.

HYDRAULIC CABLE DRUM

The hydraulic cable drum ensures an easy handling of the cable and it eliminates bungee effects. Pulling force and pulling speed can be adjusted to the X 400. It is equipped with up to 150 m of cable to improve your productivity.

40 TONS FOR MAXIMUM PERFORMANCE

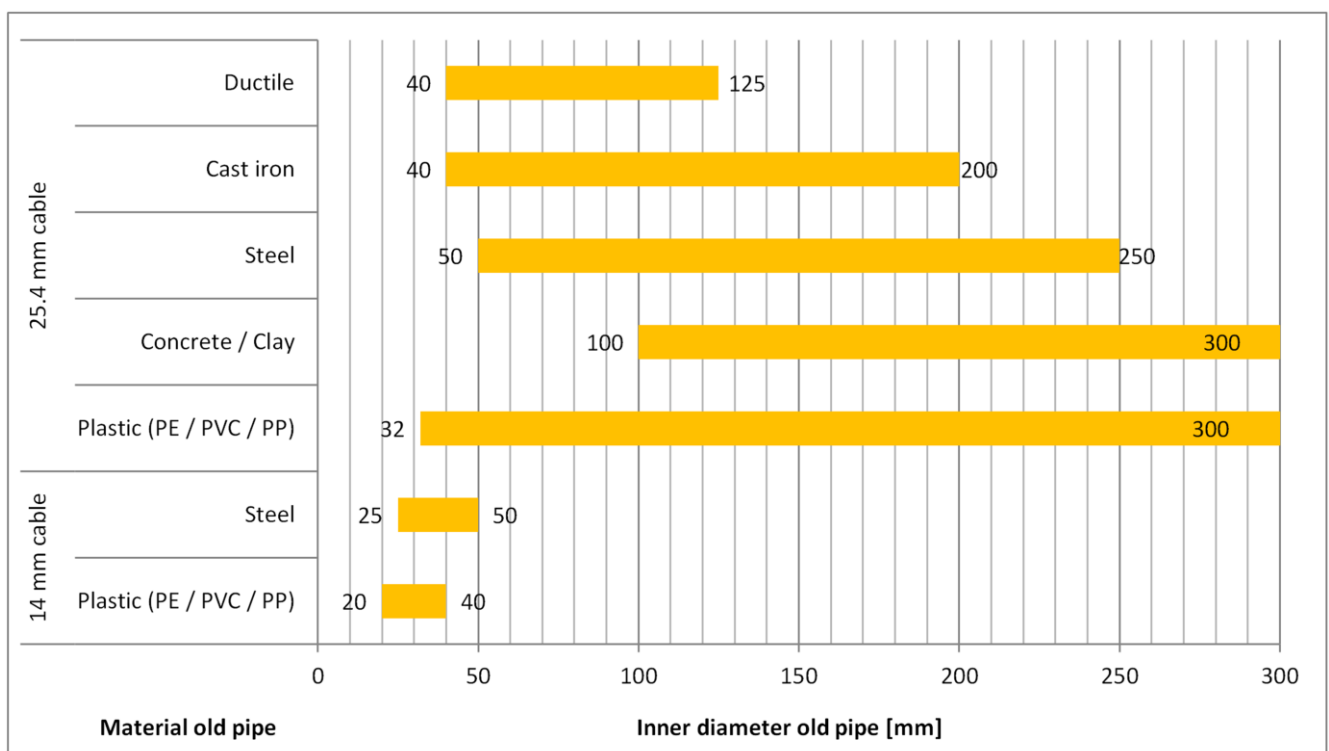
The **TERRA-EXTRACTOR X 400** is an extremely powerful and productive cable burster for your tough pipe bursting jobs. Powered by a proven 57 HP strong HATZ Diesel engine you get the power to get the job done quickly and the durability to be up and running burst after burst.

The **X 400** replaces 40 to 300 mm main lines with up to 40 tons of pulling force at 215 bar. New pipes up to \varnothing 355 mm can be replaced over length up to 150 m. Equipped with a \varnothing 25.4 or 14 mm cable the **X 400** is ideal for the replacement of old pipes made from cast iron, ductile iron, steel, clay ware or PE/PVC. Its compact footprint requires minimal excavation and the system is built to help you cut down on wasted time, maximizing productivity. Its user-friendly, modular design makes it easy to operate, easy to set up and easy to transport.

FULLY AUTOMATIC PIPE PULLING

Pipe bursting with a TERRA cable burster provides a high degree of flexibility. The **TERRA-EXTRACTOR X 400** is equipped with an electrical remote control. Together with the cable drum the pipe pulling works fully automatic to increase productivity. Industry leading pulling speed of 145 m/h can be achieved. This provides a faster, more efficient burst.

OPERATIONAL DIAGRAM X 400





PIPE REPLACEMENT WITH ROLLER CUTTERS

Old pipes made out of steel, ductile iron or plastic can easily be cut with the special roller cutters. They are equipped with several chopper discs. The chopper discs can be changed on site and they allow a wide burst application.

PIT OPERATIONS

Due to its compact design the **X 400** only requires a very small working area. The **X 400** is equipped with several lifting eyes and can easily be lifted into the pit. The durable front plate stabilizes the cable burster against the underground. All bursting tools and the new HDPE pipe can be pulled into the 0.8 m long front box. Optional TERRA offers longer front boxes. This makes it easy to disassemble the tools in the pit. Its compact footprint requires minimal excavation and the system is built to help you cut down on wasted time, maximizing productivity.

MANHOLE-TO-MANHOLE OPERATIONS

The **X 400** can be equipped with a manhole-to-manhole frame. The **X 400** sits on top of an up to 6 m long mast. Manhole operations for manholes with inner diameter of \varnothing 800 or \varnothing 1.000 mm are possible. In combination with threaded short pipes, the whole burst can be done with zero excavation. A smart solution by TERRA.



PIPE REPLACEMENT WITH STATIC CUTTERS

Old pipes made out of steel, clay ware or iron can easily be cut with the static 3-wing-cutters. Each knife has a centering adapter. Even sleeves can be burst with the 3-wing-cutters.

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HATZ DIESEL POWER PACK

The **X 400** is equipped with a strong HATZ Diesel power pack. The robust and powerful engine offers up to 57 HP for maximum productivity. It has a quick gear and power gear. The engine has a battery for the electric starter. It has an internal hydraulic pressure monitoring. The hydraulic pressure can be adjusted from zero to maximum pressure by an electric remote control. It is durable and reliable. It even allows operations in tropical and very hot regions due to its large oil cooler.



HYDRAULIC CABLE DRUM

The hydraulic cable drum ensures an easy handling of the cable and it eliminates bungee effects. Pulling force and pulling speed can be adjusted to the **X 400**. It is equipped with up to 150 m of cable to improve your productivity. It is ideal for pit-to-pit or manhole-to-manhole operations with your **TERRA-EXTRACTOR X 400**.

TERRA-EXTRACTOR X 400

Technical Specifications

CABLE BURSTING UNIT X 400	METRIC	IMPERIAL
Pulling force @ 215 bar	400 kN (40 to)	88,000 lbs (44 US tons)
Old pipe	∅ 40 - 250 mm	∅ 1.5" – 10"
New pipe	up to ∅ 355 mm	up to ∅ 14"
Length	up to 120 m	up to 420 ft
Pulling speed	145 m/h (2.5 m/min)	475 ft/h (8 ft/min)
Max. pressure	215 bar	3,300 psi
Stroke	200 mm	8"
Pulling cable, diameter	∅ 25.4 mm / ∅ 14 mm	∅ 1" / ∅ ½"
Pulling cable, weight	3.1 kg/m	6.8 lb/ft
Dimensions L x W x H (closed cylinder)	0.86 x 0.60 x 1.58 m	34" x 24" x 62"
Weight, without pulling cable, without front box	526 kg	1,160 lbs

REAR SUPPORT		
Dimensions L x W x H (front box)	0.80 x 0.60 x 0.65 m	31" x 24" x 26"
Weight (front box)	64 kg	141 lbs

POWER PACK		
Diesel Power Pack HATZ, Power	57 HP (42 kW)	57 HP (42 kW)
Hydraulic oil, quick gear	80 ltr/min @ 120 bar	21 gpm @ 1,740 psi
Hydraulic oil, power gear	45 ltr/min @ 215 bar	12 gpm @ 3,120 psi
Diesel tank	50 ltr	12 gal
Hydraulic tank	30 ltr	8 gal
Cooling capacity	6.4 kW	6.4 kW
Dimensions L x W x H	1.40 x 0.85 x 1.45 m	55" x 33" x 57"
Weight (without oil, without Diesel)	480 kg	1,060 lbs
Weight (with oil, with Diesel)	540 kg	1,190 lbs
Sound emission	< 70 dB(A)	< 70 dB(A)
Vibration specifications	< 0.5 m/s ²	< 0.5 m/s ²

* All data depending on ground conditions. Technical Data may change without prior notice.

TERRA – always one bursting job ahead!



PREMIUM BURSTING TOOLS

High quality bursting tools are available for all kind of material. They are designed and produced inhouse at TERRA to maintain peak performance.



PULLING ACCESSORIES

TERRA offers a wide range of expander cones, sleeves and expander chucks. They allow a safe and secure pulling of the new HDPE pipe.



MACHINE ACCESSORIES

The bursting machines from TERRA can be equipped with different machine accessories. Rear support frames or front plates make the assembly and disassembly easy.



CUSTOMER SERVICE

Satisfied clients worldwide and a great customer service are the result of our constant progress. The TERRA Pipe Bursters are a must have for every contractor!