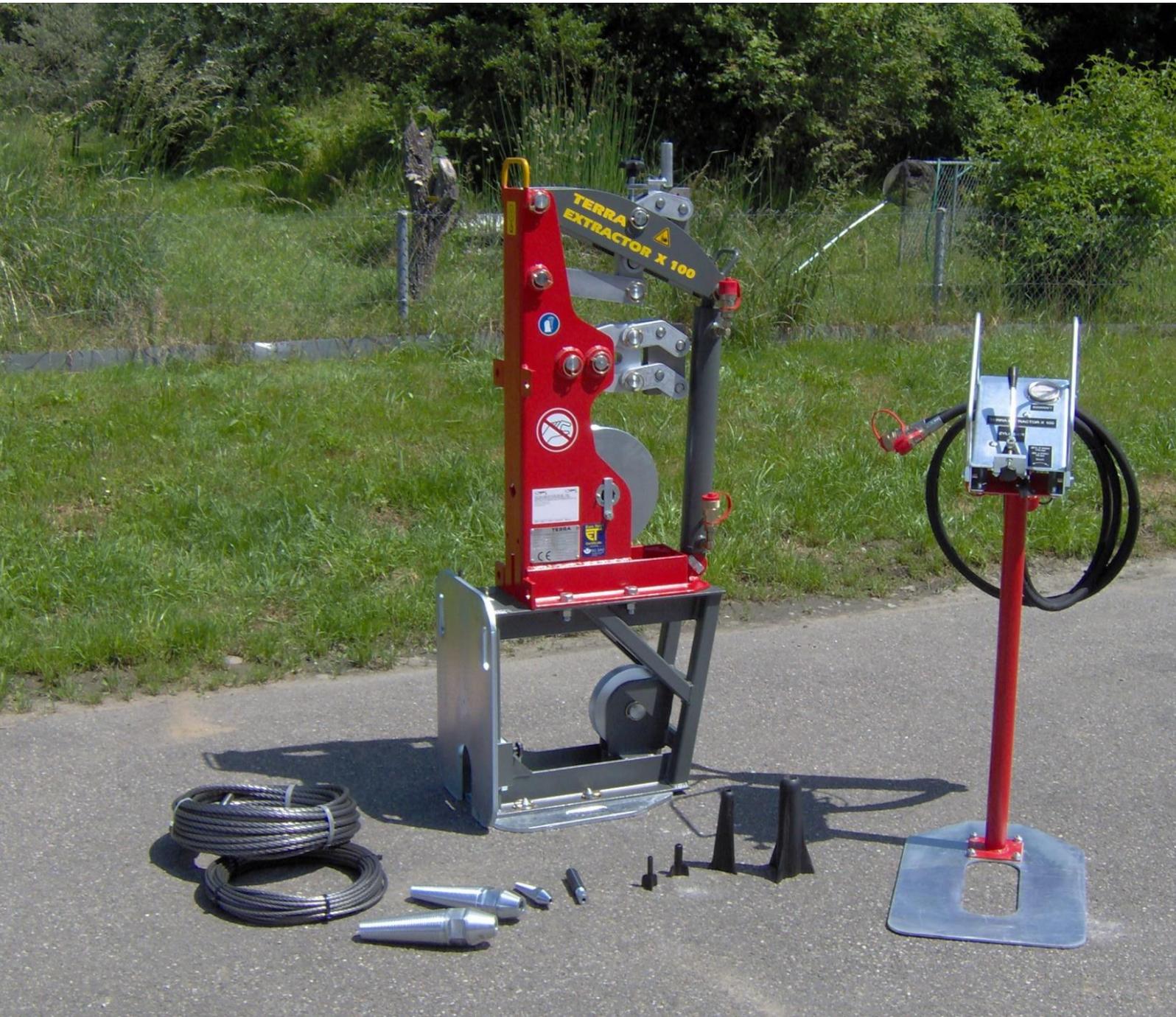


Cable Burster  
TERRA-EXTRACTOR X 100

Swiss made



# TERRA-EXTRACTOR X 100

Cable Burster

## 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.

## COMPACT DESIGN

Its user-friendly, modular design makes it easy to operate, easy to set up and easy to transport.

## COUNTER CLAMP

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

## CABLE GUIDANCE

The cable guidance ensures that the cable slides smoothly into the main clamp. It eliminates bungee effect to improve your productivity.

## 10 TONS OF PULLING FORCE

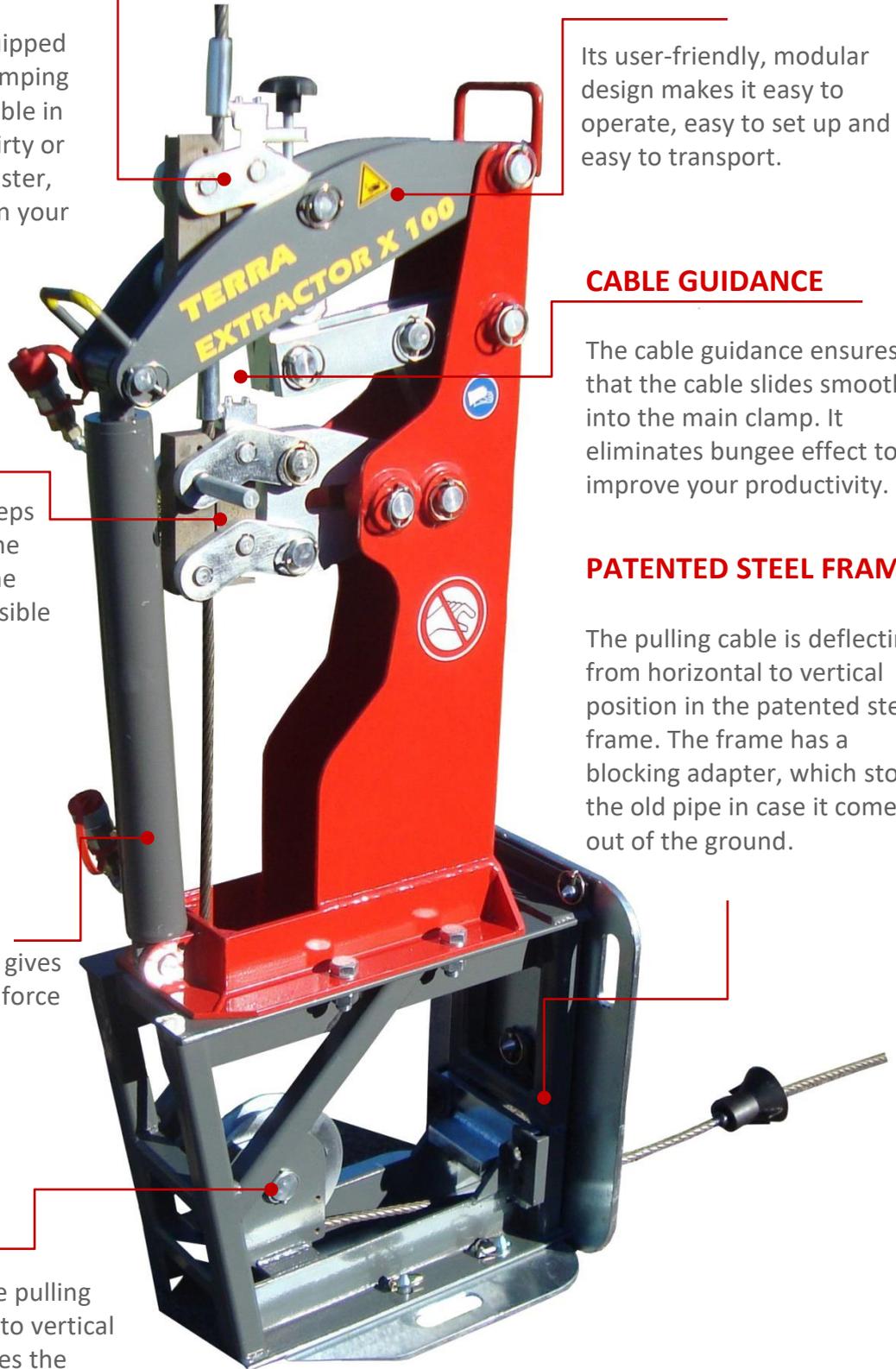
The powerful cylinder gives you 10 tons of pulling force for highly productive lateral replacement.

## PATENTED STEEL FRAME

The pulling cable is deflecting from horizontal to vertical position in the patented steel frame. The frame has a blocking adapter, which stops the old pipe in case it comes out of the ground.

## PULLEYS

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



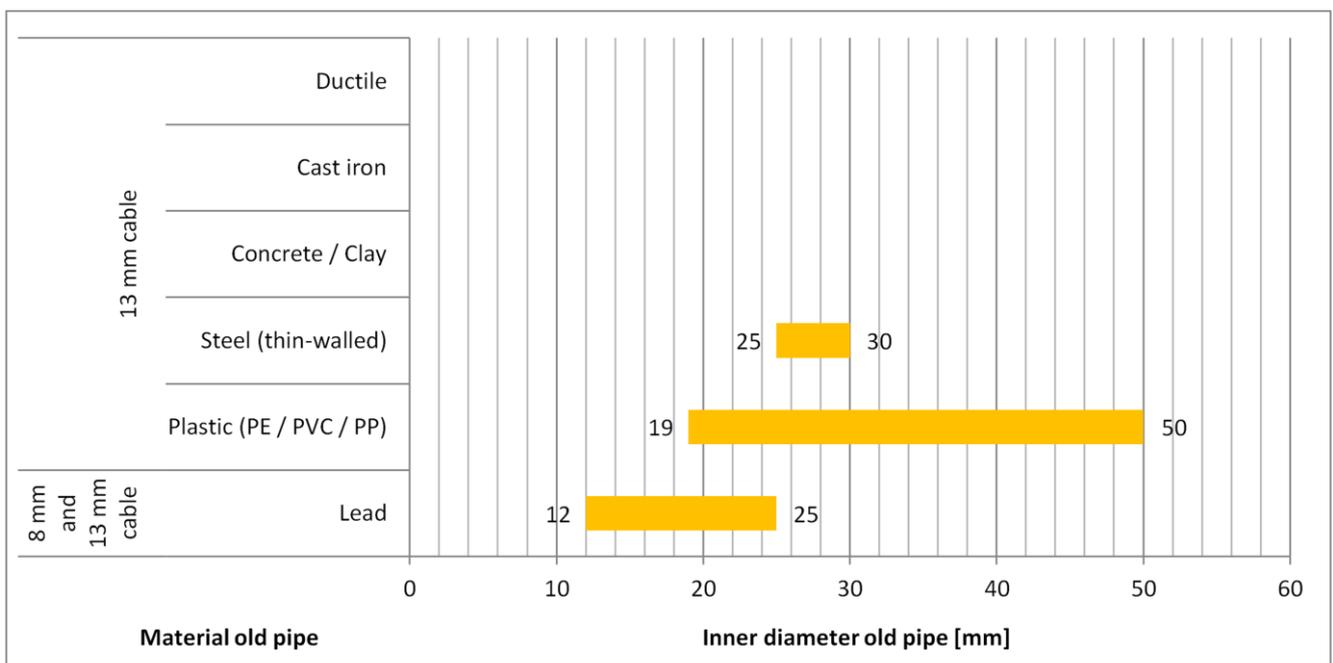
## COMPACT AND POWERFUL

The **TERRA-EXTRACTOR X 100** is an extremely powerful and compact cable burster for your tough lateral pipe bursting jobs. Equipped with a  $\varnothing$  13 mm or 8 mm cable the **X 100** is ideal for the replacement of old pipes made from PE/PVC, thin-walled steel and lead. Pipe bursting with a TERRA cable burster provides a high degree of flexibility. 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.

## 10 TONS FOR MAXIMUM PERFORMANCE

Powered by a proven 13 HP strong VANGUARD engine you get the power to get the job done quickly and the durability to be up and running burst after burst. The **X 100** replaces 12 to 50 mm lateral pipes with up to 10 tons of pulling force at 175 bar. New pipes up to  $\varnothing$  63 mm can be replaced over length up to 75 m. The **X 100** operates at low pressure, so you can choose from a variety of power supply options. Use our dedicated control unit or any other hydraulic supply capable of 175 bar with a flow of at least 40 ltr/min. You even can run it from your backhoe or compact excavator by simply connecting it to its quick-hitch system.

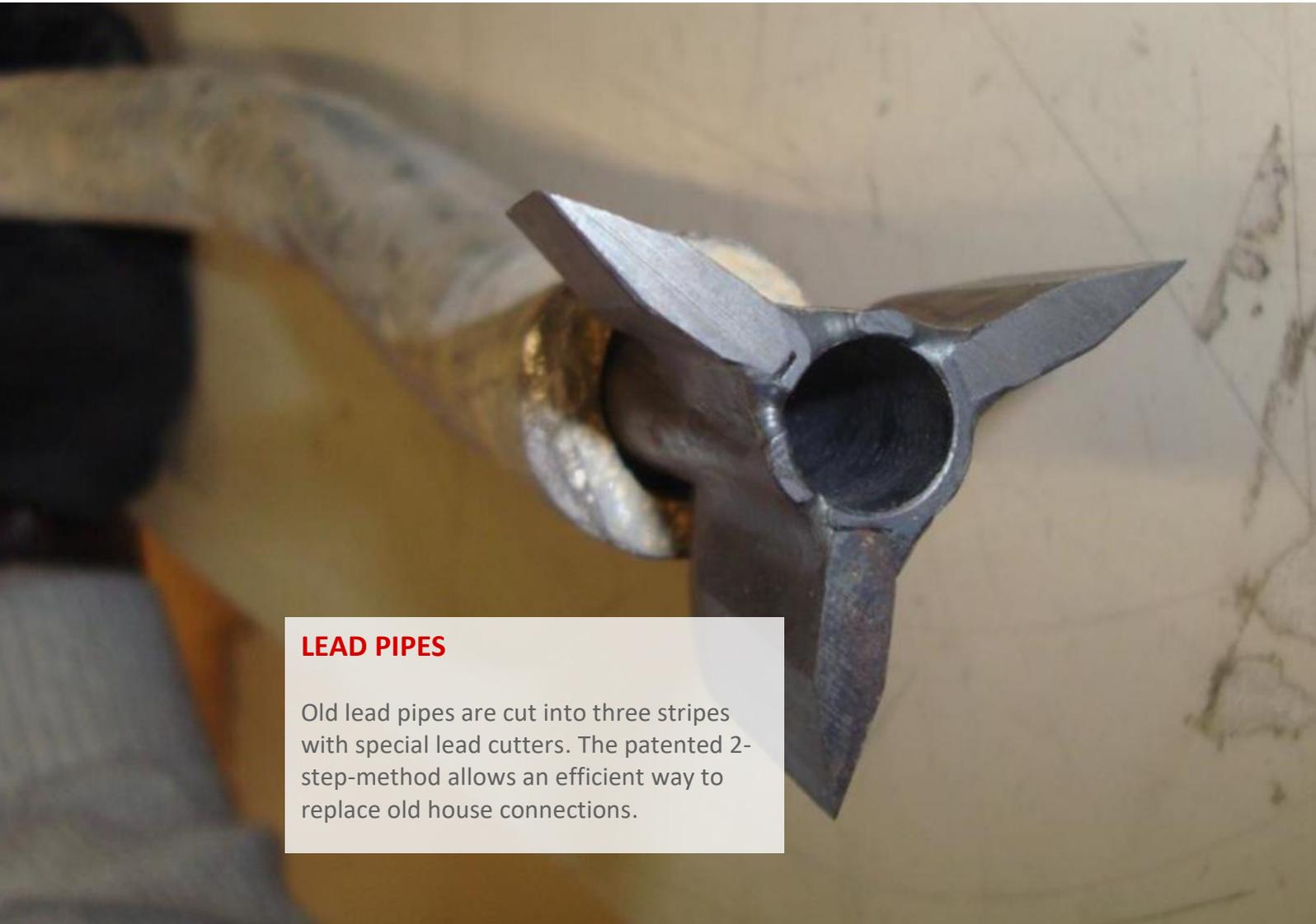
## OPERATIONAL DIAGRAM X 100





### **THIN-WALLED STEEL**

Thin-walled steel is cut with static 3-wing cutters or with small roller cutters. TERRA developed the smallest roller cutters in the world (1 ¼" – 2"). Even pipe sleeves can easily be cut.



### **LEAD PIPES**

Old lead pipes are cut into three stripes with special lead cutters. The patented 2-step-method allows an efficient way to replace old house connections.

## OLD STEEL PIPES

The **X 100** can easily cut thin walled steel pipes. TERRA developed static steel cutters with three conical knives and small roller cutters for old steel pipes 1 ¼" – 2".

## OLD LEAD PIPES

Old lead pipes are renewed with the patented 2-step-method. In a first step the old pipe is cut into three stripes with special lead cutters by holding the old lead pipe in position. In a second step the old lead pipe is displaced sidewise and the new pipe is pulled in.

## OLD PLASTIC PIPES

Old plastic pipes can easily be replaced with rectangular PE-cutters. These special cutters cut the old plastic pipes into two stripes. The cone displaces the old pipe sidewise while pulling in the new HDPE pipe. Several house connections can be replaced within one day.



### PLASTIC PIPES

The old plastic pipe is cut in front of the cable burster **X 100** with a special swell cone. The cutter prevents that the old pipe moves into the machine.



### **POWER SUPPLY BY VANGUARD POWER PACK**

The **X 100** operates at low pressure with high production. The robust and powerful **VANGUARD** petrol engine offers up to 13 HP (10 kW). It is durable and reliable.



**TERRA**  
**EXTRACTOR X 100**



**TERRA**  
EXTRACTOR X 100  
CE



**POWER SUPPLY BY BACKHOE OR MINI-EXCAVATOR**

The X 100 can be supplied by a backhoe or a mini-excavator. Connect it to your quick-hitch system of your power supply and operate the X 100 comfortable in the cabin.

# TERRA-EXTRACTOR X 100

## Technical Specifications

| CABLE BURSTING UNIT X 100              | METRIC               | IMPERIAL                |
|--|----------------------|-------------------------|
| Pulling force @ 175 bar                | 100 kN (10 tons)     | 22,000 lbs (11 US tons) |
| Old pipe                               | ∅ 15 - 50 mm         | ∅ ½" - 2"               |
| New pipe                               | ∅ 20 - 63 mm         | ∅ ¾" - 2.5"             |
| Length                                 | up to 75 m           | up to 250 ft            |
| Pulling speed                          | 120 m/h (2.0 m/min)  | 400 ft/h (6.5 ft/min)   |
| Max. pressure                          | 175 bar              | 2,500 psi               |
| Stroke                                 | 225 mm               | 8.5"                    |
| Pulling cable, diameter                | ∅ 13 mm              | ∅ 0.51"                 |
| Pulling cable, weight                  | 1.0 kg/m             | 0.6 lbs/ft              |
| Dimensions L x W x H (closed cylinder) | 0.63 x 0.40 x 1.53 m | 25" x 16" x 60"         |
| Dimensions L x W x H (open cylinder)   | 0.63 x 0.40 x 1.76 m | 25" x 16" x 69"         |
| Weight, without pulling cable          | 201 kg               | 443 lbs                 |

| REAR SUPPORT                     | METRIC            | IMPERIAL        |
|----------------------------------|-------------------|-----------------|
| Dimensions L x W x H (front box) | 0.3 x 0.4 x 0.6 m | 12" x 16" x 24" |
| Weight (front box)               | 17 kg             | 37 lbs          |

| POWER PACK                           | METRIC                 | IMPERIAL               |
|--------------------------------------|------------------------|------------------------|
| Petrol Power Pack VANGUARD, Power    | 13 HP (10 kW)          | 13 HP (10 kW)          |
| Hydraulic volume and pressure        | 23 ltr/min @ 175 bar   | 6 gpm @ 2,540 psi      |
| Petrol tank                          | 4.5 ltr + 20 ltr tank  | 1.2 gal + 5.3 gal tank |
| Hydraulic tank                       | 25 ltr                 | 6.5 gal                |
| Cooling capacity                     | 2.4 kW                 | 2.4 kW                 |
| Dimensions L x W x H                 | 1.00 x 0.85 x 1.00 m   | 39" x 33" x 39"        |
| Weight (without oil, without petrol) | 195 kg                 | 430 lbs                |
| Weight (with oil, with petrol)       | 240 kg                 | 530 lbs                |
| Sound emission                       | < 70 dB(A)             | < 70 dB(A)             |
| Vibration specifications             | < 0.5 m/s <sup>2</sup> | < 0.5 m/s <sup>2</sup> |

\* 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!