

Scandinavian No-Dig Centre

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### HYDRO STATIC PIPEBURSTING MACHINERY

BUILT ON WORLD KNOWN DANISH DESIGN, TECHNOLOGY AND QUALITY COMPONENTS

WE GIVE YOU THE MOST COMPREHENSIVE AND MODERN LINE OF STATIC PIPEBURSTING MACHINES;

### **THE T-SERIES**



### **ABOUT US**

Scandinavian No-Dig Centre introduced their first pipeburster machine in 1997, the T40.

It was designed using typical Danish simplicity, and held numerous functions sought after by experienced utility contractors from across the world.

The T40 pipeburster machine was unique in many ways, and from the very beginning set a new standard for functionality and safety on the market. It quickly became the favourite choice amongst utility contractors, and many T40's are still fully functional today.

The No-Dig Centre, - as we are normally called; has ever since focused on being the number one supplier of professional construction equipment for the trenchless industry.

Over 25 years with focus on supplying the best hydro-static pipeburster machines to

a market, with a still growing demand for both functionality and safety.

With numerous new machine models and upgrades on existing models, we have over the years strived to stay relevant through our designs and Scandinavian simplicity.

Our product line continues to reflect both innovation and functionality. It also highlights the importance of focusing on and being connected to the industry.

The electric green line of static pipeburster machines is developed to suit a changing world, where the industry must do its best to be part of green solutions.

Scandinavian No-Dig Centre has always, and will continue to provide, - solutions for the future.

Scandinavian No-Dig Centre

# CONVENTIONAL PIPEBURSTING

### Scandinavian No-Dig Centre

## REPLACING EXISTING PIPELINES BETWEEN TWO EXCAVATIONS

Models: T37/T37E/T47/T47E/T87/T87E/T167/T247E

The existing pipeline is located.

Two excavations are dug out.

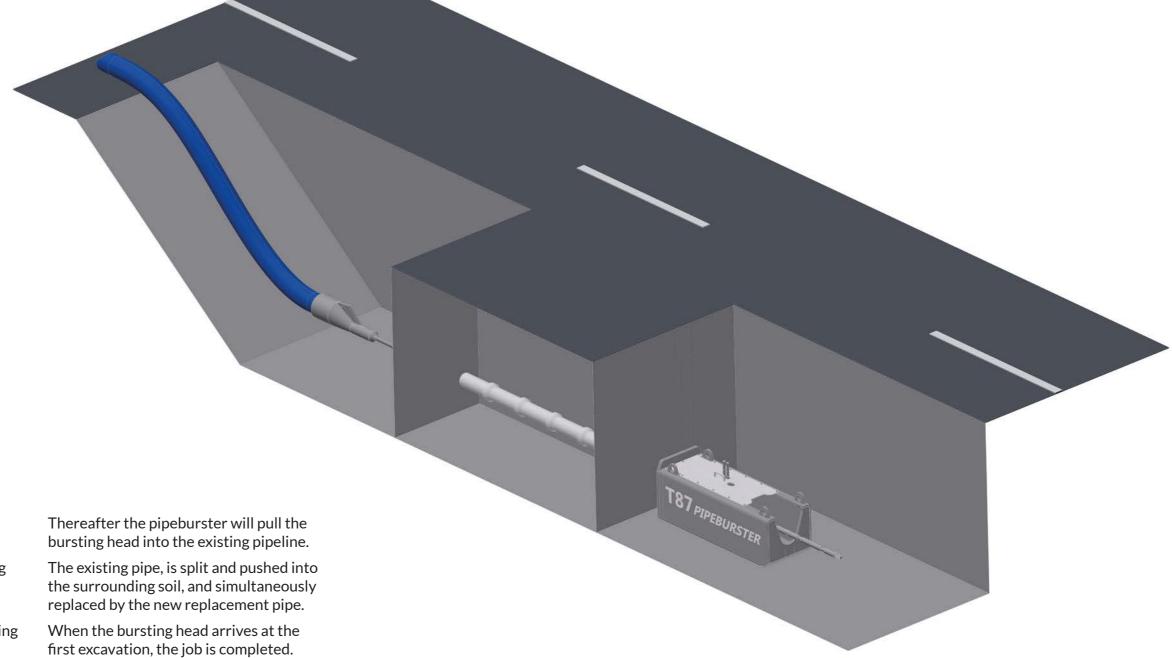
One for the pipeburster unit, and one for inserting the new replacement pipe.

The existing pipeline is removed from the two excavations.

The pipebursting equipment is positioned as shown on the sketch.

By hydraulic force, solid steel rods are pushed, one by one, up through the existing pipeline.

Upon arrival at the second excavation, the solid steel rods are connected to the bursting head and new replacement pipe.

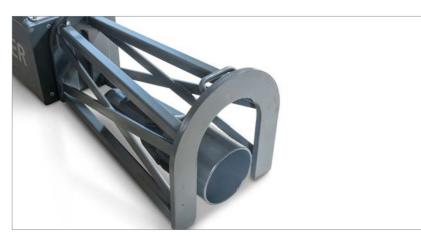


# **T37**

**HYDRO-STATIC PIPEBURSTER** 

90,400 lbs. of pulling power  $\emptyset$ 2 inch.  $\rightarrow$   $\emptyset$ 10 inch. operational range

Pipe materials: Can operate in all known pipe materials





T37 with an extension frame used to extract the bursting tool.

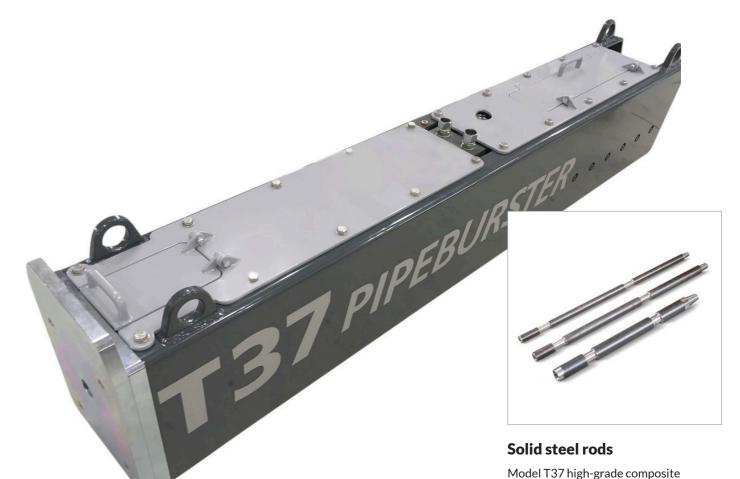


**Bursting head** 

3-blade bursting head for PVC/ HDPE pipe replacement.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	90,400 lbs.		
Measurements	81.5 x 11.8 x 17.3 inch.	47.2 x 43.3 x 47.2 inch.	Ø1.57 x 11.80 inch.
Weight	1,058 lbs.	1,807 lbs.	22 lbs.
Engine		Kubota 3-cyl. diesel 22 bhp. / 16.40 kW. Fuel cap. 9.25 gal. Fuel consumption: 1.3 gal. / hr.	
Hydraulic system	1 cylinder Hollow-design	Max. 250 bar / 3,625 psi.  Pump. 1: 9.25 gal. / min.  Pump. 2: 5.95 gal. / min.  Variable pump flow:  < 1,015 psi. → 15.2 gal. / min.  > 1,015 psi. → 5.95 gal. / min.  Hydraulic oil cap. 22.45 gal.	
Operationel speed	Up to 6.5 ft. / min.		
Operationel range, Existing pipe diameter	Ø2 inch. → Ø10 inch.		





### Designer's note:

"This model is specifically designed for the water and gas industry.

Where parallel utilities and a lack of space can prevent the use of standard machines, the slim and narrow design (11.8 inch.), enables the contractor to undertake this type of work without hesitation.

The T37 holds the highest productivity level, in the No-Dig catalogue"



material, designed for high safety margin.

**Hydraulic Power Pack** 

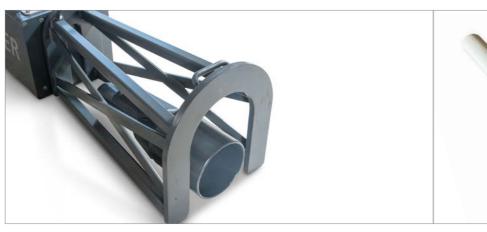
T37 power pack, 25 bhp. diesel engine. 250 bar op. pressure.

# T37E ELECTRO-STATIC PIPEBURSTER

Scandinavian No-Dig Centre

90,400 lbs. of pulling power  $\emptyset$ 2 inch.  $\rightarrow$   $\emptyset$ 10 inch. operational range

Pipe materials: Can operate in all known pipe materials



#### **Extension frame**

T37E with an extension frame used to extract the bursting tool.



#### **Bursting head**

3-blade bursting head for PVC/ HDPE pipe replacement.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	90,400 lbs.		
Measurements	81.5 x 11.8 x 17.3 inch.	31.5 x 23.6 x 53.5 inch.	Ø1.57 x 11.80 inch.
Weight	1,058 lbs.	1,388 lbs.	22 lbs.
Engine		Electric engine 7.5 kW. 400 volt 16 amp. 50 Hz Connection: 3P + N + PE CEE	
Hydraulic system	1 cylinder Hollow-design	Max. 250 bar / 3,625 psi. 1 variable pump Variable pump flow: < 1,450 psi. / 15.8 gal. / min. Hydraulic oil cap. 15.8 gal.	
Operationel speed	Up to 6.5 ft. / min.		
Operationel range, Existing pipe diameter	Ø2 inch. → Ø10 inch.		



### Designer's note:

"The T37E is the future of static pipebursting equipment.

With zero CO2 and low dB emissions, this Electric unit sets a new standard for any urban pipebursting application"



**Hydraulic Power Pack** 

T37E power pack, 7.5 kW electric engine. 250 bar op. pressure.

# T47 HYDRO-STATIC PIPEBURSTER

103,600 lbs. of pulling power Ø2 inch. → Ø10 inch. operational range Pipe materials: Can operate in all known pipe materials







**Cutting head** 

Excentric one-blade cutting head, designed for steel, cast and ductile.

**Extension frame** 

T47 heavy duty extension frame.

T47 jaw-system

Constant tension design.

#### Steel rods **Specifications Pulling unit** Power pack Pulling force 103,600 lbs. 63 x 17.7 x 19.7 inch. 47.2 x 43.3 x 47.2 inch. Ø1.77 x 39.4 inch. 1,322 lbs. 1,807 lbs. 26 lbs. Kubota 3-cyl. diesel 22 bhp. / 16.40 kW. Engine Fuel cap. 9.25 gal. Fuel consumption: 1.3 gal. / hr. Max. 250 bar / 3,625 psi. Pump. 1: 9.25 gal. / min. Pump. 2: 5.95 gal. / min. Hydraulic system 3 cylinders Variable pump flow: < 1,015 psi. → 15.2 gal. / min. > 1,015 psi. → 5.95 gal. / min. Hydraulic oil cap. 22.45 gal. Up to 3.3 ft./min. **Operationel** speed Cylinder stroke: 1.6 ft. Ø2 inch. → Ø10 inch.



#### Solid steel rods

Model T47 high-grade composite material, designed for high safety margin.

### Designer's note:

"Versatile midrange machine.

The pulling force of this model makes it the strongest model in its class. Anything from asbestos to ductile is managed by the T47"



**Hydraulic Power Pack** 

T47 power pack, 25 bhp. diesel engine. 250 bar op. pressure.

# T47E ELECTRO-STATIC PIPEBURSTER

103,600 lbs. of pulling power Ø2 inch. → Ø10 inch. operational range Pipe materials: Can operate in all known pipe materials



**Cutting head**Excentric one-blade cutting head,

designed for steel, cast and ductile

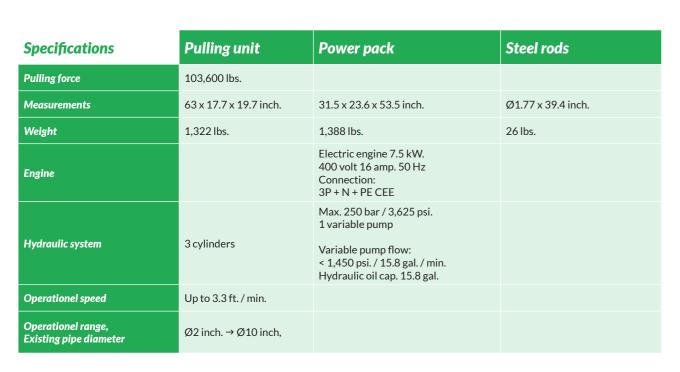


Extension frame

T47 heavy duty extension frame.



**T47E jaw-system**Constant tension design.







### Designer's note:

"The T47E is the future of static pipebursting equipment.

With zero CO2 and low dB emissions, this Electric unit sets a new standard for any urban pipebursting application"



Electro-Static Power Pack
7.5 kW electric engine / 250 bar op. pressure.

# T87 HYDRO-STATIC PIPEBURSTER

202,825 lbs. of pulling power Ø3 inch. → Ø16 inch. operational range Pipe materials: Can operate in all known pipe materials



#### Extension frame

T87 heavy duty extension frame.



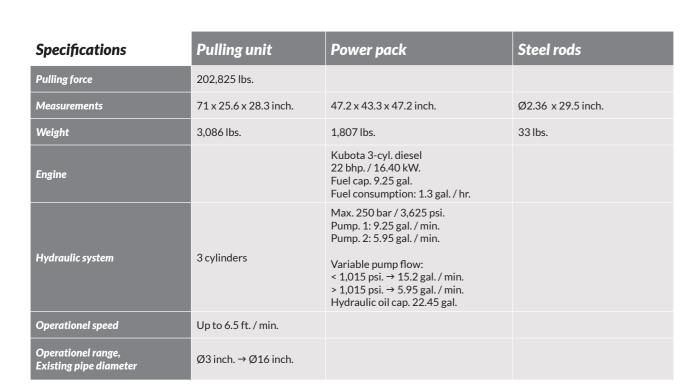
**Steel rod container** 

Steel rod container holding 40 pc's of Ø2.36 inch. T87 steel rods.



#### **Cutting head**

Excentric one-blade cutting head, designed for steel, cast and ductile.





#### Solid steel rods

Model T87 high-grade composite material, designed for high safety margin.

### Designer's note:

"The successful combination of size and power has been brought together in the T87 pipeburster.

Five years of research and development has been put into this design.

High speed, great power and very low fuel consumption has made this our best selling model, since it was introduced to the market."



**Hydraulic Power Pack** 

T87 power pack, 25 bhp. diesel engine. 250 bar op. pressure.

# T87E ELECTRO-STATIC PIPEBURSTER

202,825 lbs. of pulling power Ø3 inch. → Ø16 inch. operational range Pipe materials: Can operate in all known pipe materials



**Extension frame**T87E heavy duty extension frame.



**Steel rod container**Steel rod container holding 40 pc's of Ø2.36 inch. T87E steel rods.



Excentric one-blade cutting head, designed for steel, cast and ductile.

**Cutting head** 





### Designer's note:

"The T87E is the future of static pipebursting equipment.

With zero CO2 and low dB emissions, this Electric unit sets a new standard for any urban pipebursting application"



**Hydraulic Power Pack** 15 kw. 32 amp. electric engine 250 bar op. pressure.

# T167 HYDRO-STATIC PIPEBURSTER

544,542 lbs. of pulling power Ø5.9 inch. → Ø31.5 inch. operational range Pipe materials: Can operate in all known pipe materials







**Cutting head** 

3 - blade bursting tool, for splitting existing PVC /HDPE pipe.

Hydraulic power pack

T167 hydraulic power pack, model PP-08.

Steel rod system

Ø3.3 inch. steel rod & transport container.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	374,786 lbs.		
Measurements	98.4 x 35.4 x 47.2 inch.	70.9 x 55.1 x 45.3 inch.	Ø3.4 x 39.4 inch.
Weight	8,818 lbs.	4,188 lbs.	88 lbs.
Engine		KUBOTA DIESEL ENGINE 4-Cyl. Turbo charged 53 kW. / 71 bhp. @ 2700 rpm. Water cooled Common rail direct injection EPA/CARB Tier 4 EU stage 5	
Hydraulic system	3 cylinders	3,625 psi Hydraulic oil cap. 158.50 gal. Variable 1-circuit piston hydraulic pump 34.34 gal. / min. Measured at 2.000 rpm. /min.	
Operationel speed	Up to 6.6 ft. / min. Stroke; 19.9 inch.		
Operationel range, Existing pipe diameter	Ø5.9 inch. → Ø28 inch.		



### Designer's note:

"Self-contained unit, which includes; on board electric crane for easy rod handling and on-board hydraulic rod spinner.

Depending on pipe size, the T167 can operate from within a standard 4-meter trench box"

# T247E ELECTRO-STATIC PIPEBURSTER

544,542 lbs. of pulling power Ø5.9 inch. → Ø31.5 inch. operational range Pipe materials: Can operate in all known pipe materials







**T247E ARS** 

Hydraulic rod spinner.

**Electric Power Pack PP07** 

T247E electro-static power pack.

T247E steel rod system

Ø4.1 x 39.4 inch. long. Handled by on-board electrical crane.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	544,542 lbs.		
Measurements	86.6 x 43.3 x 45.3 inch.	55 x 79 x 75 inch.	Ø4.1 x 39.4 inch.
Weight	8,818 lbs.	7,716 lbs.	141 lbs.
Engine		2x 37 kW. electric engines 3x 400 volt, 180 amp. PE 50 Hz Supply; Generator (160 KVa.) Provisory cable connection Battery power bank	
Hydraulic system	3 cylinders	Max 3625 psi 2x 110 cm³ variable pumps 2x 42.27 gal. / min. Hydraulic oil cap. 158.50 gal.	
Operationel speed	Up to 6.6 ft. / min. Stroke; 19.9 inch.		
Operationel range, Existing pipe diameter	Ø5.9 inch. → Ø31.5 inch.		



"Self-contained unit, which includes; on

board electric crane for easy rod handling and on-board hydraulic rod spinner.

Depending on pipe size, the T247E can operate from within a standard 4-meter trench box"

## MICRO PIPEBURSTING

## REPLACING EXISTING PIPELINES BETWEEN TWO VERTICAL SHAFTS

Models: mini-T/mini-TE/maxi-T/maxi-TE

Two vertical shafts are prepared.

One for the pipebursting unit, and one for inserting the new replacement pipe.

Equipment is positioned as shown on the sketch.

By hydraulic force, solid steel rods are pushed, one by one, up through the existing pipeline.

Upon arrival at the second vertical shaft, the solid steel rods are connected to the bursting head and new replacement pipe.

Due to the limited space, the new replacement pipe is normally a modular pipe.

Thereafter the pipeburster will pull the bursting head into the existing pipeline.

The existing pipeline is split and pushed into the surrounding soil, and simultaneously replaced by the new replacement pipe.

When the bursting head arrives at the first vertical shaft, the job is completed.



**No-Dig Centre** 



## MINI-T **HYDRO-STATIC PIPEBURSTER**

81,600 lbs. of pulling power  $\emptyset$ 1.5 inch.  $\rightarrow$   $\emptyset$ 10 inch. operational range Pipe materials: Can operate in all known pipe materials



#### mini-T pulling unit

Shown in a standard Ø39.4 inch. service shaft concrete ring (1:1).



#### **Support Plate**

Radius 19.7 inch. Positioned between the concrete shaft-wall and the pulling unit during installation.



#### **Hydro-Static Extractor Frame**

The hydraulic device extracts the bursting head and new product pipe from the ground, - here shown inside a Ø39.4 inch. service shaft (1:1)

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	81,600 lbs.		
Measurements	23.6 x 17.3 x 18.9 inch.	48.0 x 25.6 x 39.4 inch.	Std. Ø1.77 x 11.80 inch. Option Ø1.18 x 11.80 inch.
Weight	348 lbs.	550 lbs.	Ø1.77 inch. steel rod: 6.4 lbs. Ø1.18 inch. steel rod: 3.0 lbs.
Engine		Vanguard Petrol air-cooled 22 bhp. / 16.40 kW. Electrical start, 4-stroke Fuel cap. 4.4 gal. Fuel consumption: 0.9 gal. / hr.	
Hydraulic system	3 cylinders	250 bar / 3,625 psi. Variable pump flow: 3.95 gal. / min. 2500 rpm. Hydraulic oil cap. 13.2 gal.	
Operationel speed	Up to 3.3 ft. / min. Cylinder stroke: 3.9 inch.		
Operationel range, Existing pipe diameter	Ø1.5 inch. → Ø10 inch.		



#### Solid steel rods

Model mini-T high-grade composite material, designed for high safety margin.



**Hydraulic Power Pack** 

21 bhp. gasoline hydraulic Power Pack. Max. pressure 250 bar.

### Designer's note:

"Designed for replacing smaller sewer pipes between service shafts and small excavations"

# ELECTRO-STATIC PIPEBURSTER

81,600 lbs. of pulling power
Ø1.5 inch. → Ø10 inch. operational range
Pipe materials: Can operate in all known pipe materials



mini-TE pulling unit
Shown in a standard Ø39.4 inch.

service shaft concrete ring (1:1).



Model mini-TE high-grade composite material, designed for high safety margin.

Solid steel rods



Threaded PP-module
Gravity sewer pipe system
Ø4.3 inch. → Ø15.7 inch.







### Designer's note:

"The mini-TE is the future of static pipebursting equipment.

With zero CO2 and low dB emissions, this Electric unit sets a new standard for any urban pipebursting application"



Battery power bank

38 kW / 45 KVA / 46 kWh

**Hydraulic Power Pack**Mini-TE power pack, 7.5 kW electric engine. 250 bar op. pressure.

# HYDRO-STATIC PIPEBURSTER

134,400 lbs. of pulling power Ø3 inch. → Ø16 inch. operational range Pipe materials: Can operate in all known pipe materials



Shown in a standard Ø39.4 inch.

concrete shaft ring (1:1).

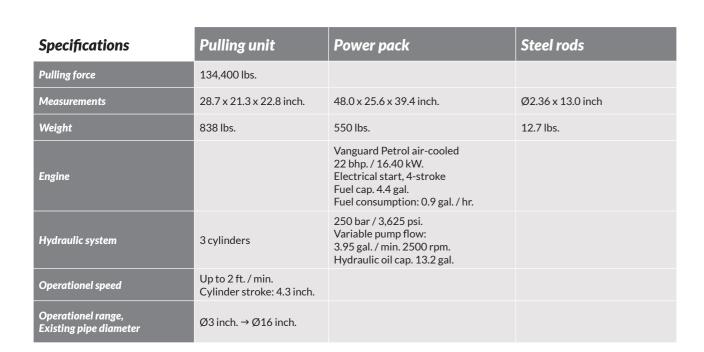
### maxi-T Support Plate

Radius 19.7 inch. Positioned between the concrete shaft-wall and the pulling unit during installation.



**Hydro Static Extractor Frame** 

The hydraulic device extracts the bursting head and new product pipe from the ground, - here shown inside a Ø39.4 inch. service shaft (1:1)





#### Solid steel rods

Model maxi-T High-grade composite material, designed for high safety margin.



"Designed for replacing larger sewer pipes between service shafts and small excavations"



**Hydraulic Power Pack** 

21 bhp. gasoline hydraulic Power Pack. Max. pressure 250 bar.

# MAXI-TE ELECTRO-STATIC PIPEBURSTER

134,400 lbs. of pulling power Ø3 inch. → Ø16 inch. operational range Pipe materials: Can operate in all known pipe materials



**maxi-TE**Shown in a standard Ø39.4 inch. concrete shaft ring (1:1).



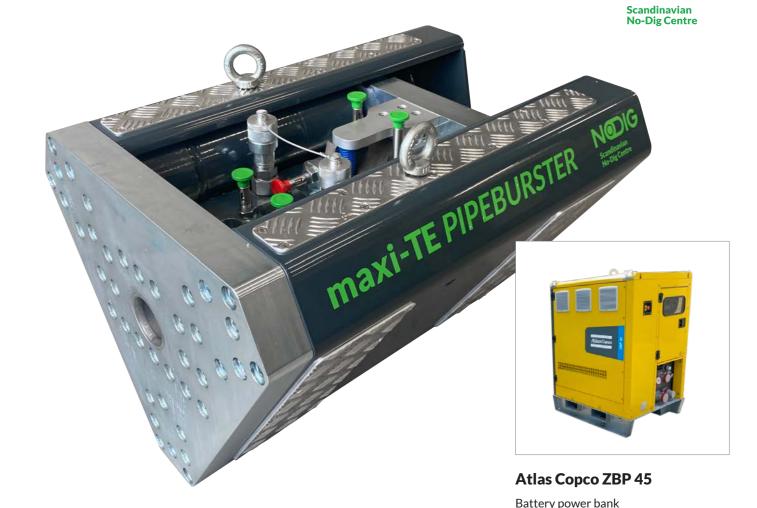
Threaded PP-module
Gravity sewer pipe system
Ø4.3 inch. → Ø15.7 inch.



Model maxi-TE high-grade composite material, designed for high safety margin.

Solid steel rods





### Designer's note:

"The maxi-TE is the future of static pipebursting equipment.

With zero CO2 and low dB emissions, this Electric unit sets a new standard for any urban pipebursting application"



38 kW / 45 KVA / 46 kWh

**Hydraulic Power Pack**Maxi-TE power pack, 7.5 kW electric engine. 250 bar op. pressure.

# TOOLS FOR HYDRO-STATIC PIPEBURSTING



**Support Plate**Support plate for in-shaft applications.



**Gripper tools**Assembly tools for threaded module pipes.



**Threaded module pipe**Polypropylene modules, designed for non-pressured gravity pipes.



**Towing heads**Standard towing head, HDPE Ø0.98 inch. → Ø31.50 inch.



**Cutting head**Standard 1-fin bursting head for all known pipe materials, except for PVC and HDPE.



**PVC cutting head**3-fin bursting head for PVC and HDPE pipes.



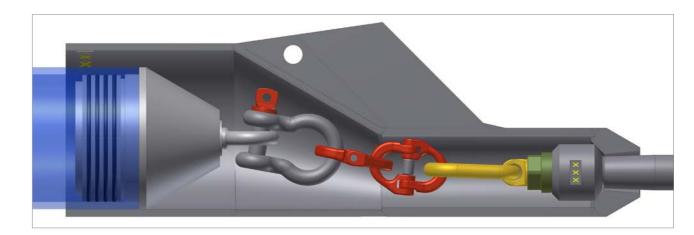
Pipeburster steel rods

Composite steel rod systems. High-grade safety margin & flexibility.



Remote control

Remote control w. heavy duty PUR cable.



**Bursting head assembly** 

Complete w. connector-rod and towing head.



**Steel rod spinner** HRS - Hydraulic Rod Spinner

model T47 & T87.



**Extension frame**Used to create space between the excavation wall and the pulling unit.



Accessories

Adaptors, pilot rods and connection tools.



