

**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 2021



Søren Nielsen & Jesper Nielsen

Second generation of trenchless pioneers

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.

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.

The 2021 product line continues to reflect both innovation and functionality. It also highlights the importance of focusing on and being connected to the industry.

The brand new 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.

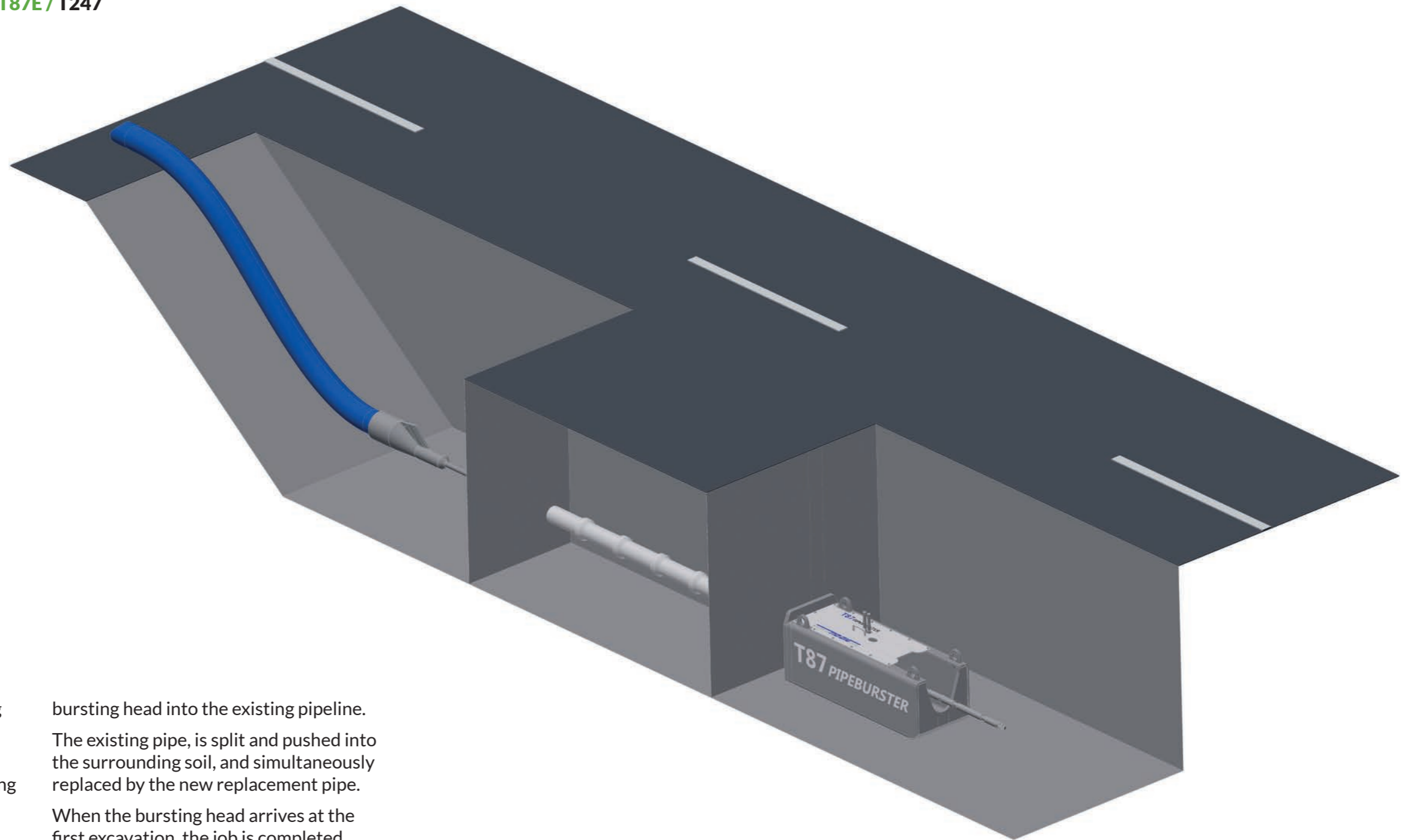
Scandinavian No-Dig Centre has always and will continue to provide, - solutions for the future.

Scandinavian No-Dig Centre

CONVENTIONAL PIPEBURSTING

REPLACING EXISTING PIPELINES BETWEEN TWO EXCAVATIONS

Models: **T37** / **T37E** / **T47** / **T47E** / **T87** / **T87E** / **T247**



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.

Thereafter the pipeburster will pull the

bursting head into the existing pipeline.

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

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

T37

HYDRO-STATIC PIPEBURSTER

41 metric tons of pulling power

Ø50 mm. → Ø250 mm. operational range

Pipe materials: Can operate in all known pipe materials

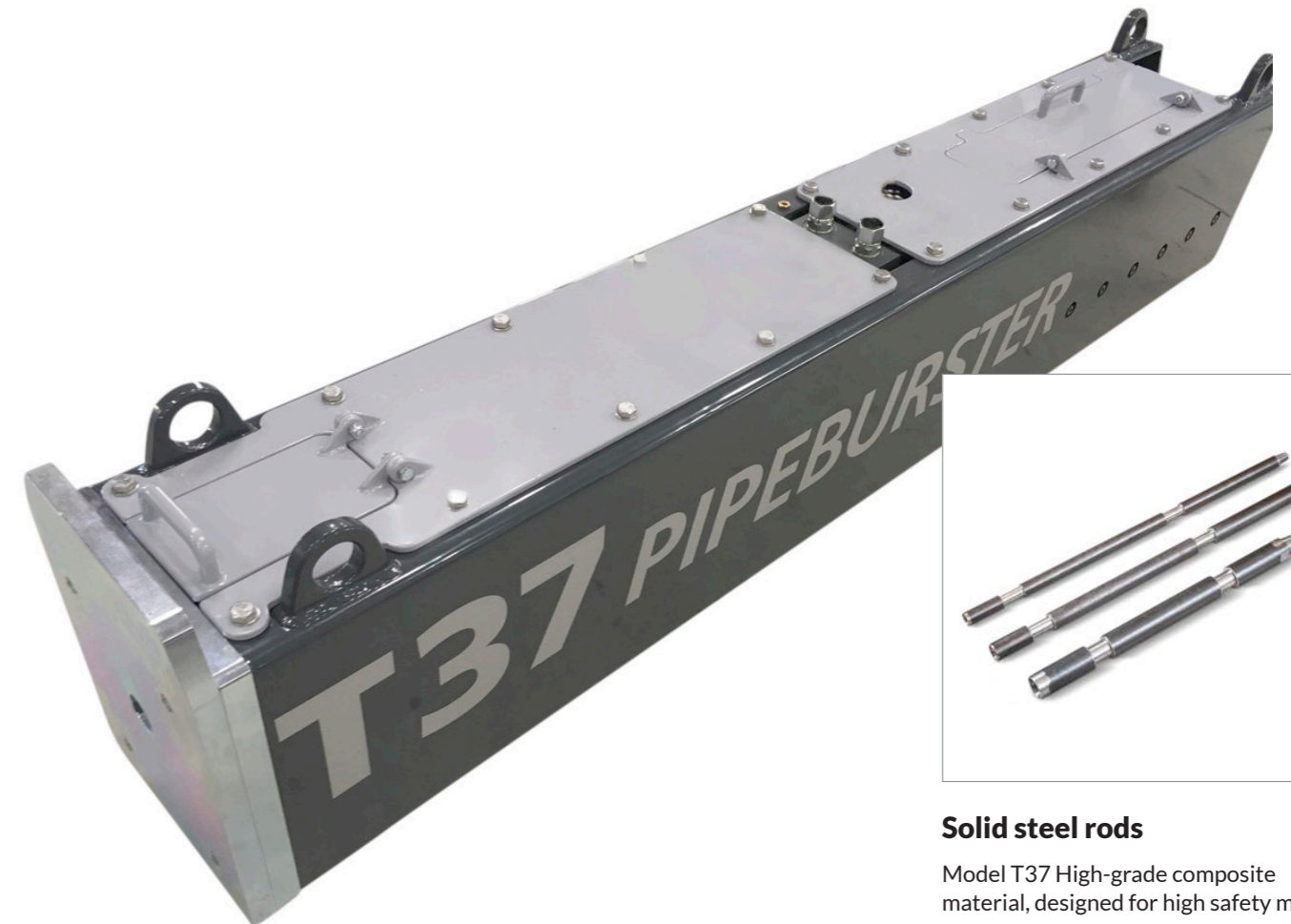


Extension frame

T37 with extension frame for bursting tools extraction. The extension frame is used for bursting tool extraction

Bursting head

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



Solid steel rods

Model T37 High-grade composite material, designed for high safety margin.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	41 metric tons		
Measurements	207 x 30 x 44 cm.	120 x 110 x 120 cm.	Std. Ø40 mm. x 1,00 meter.
Weight	480 kg.	820 kg.	Ø40 mm. steel rod: 10,00 kg.
Engine		Kubota 3-cyl. diesel 22 bhp. / 16,40 kW. Fuel cap. 35 ltr. Fuel consumption: 5 ltr. / hr.	
Hydraulic system	1 cylinder Hollow-design	Max. 250 bar / 3.625 psi. Pump. 1: 35,0 ltr. / min. Pump. 2: 22,5 ltr. / min. Variable pump flow: < 70 bar. → 57,5 ltr. / min. > 70 bar. → 22,5 ltr. / min. Hydraulic oil cap. 85 ltr.	
Operational speed	Up to 2,0 meter. / min.		
Operational range, Existing pipe diameter	Ø50 mm. → Ø250 mm.		

Designer's note:

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

Where parallel utilities and lack of space can prevent the use of standard machines, the slim and narrow design (300 mm.), enables the contractor to undertake this type of work without hesitation.

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



Hydraulic Power Pack

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

T37E

ELECTRO-STATIC PIPEBURSTER

41 metric tons of pulling power

Ø50 mm. → Ø250 mm. operational range

Pipe materials: Can operate in all known pipe materials



Extension frame

T37E with extension frame for bursting tools extraction. The extension frame is used for bursting tool extraction

Bursting head

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



Solid steel rods

Model T37E High-grade composite material, designed for high safety margin.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	41 metric tons		
Measurements	207 x 30 x 44 cm.	80 x 60 x 136 cm.	Std. Ø40 mm. x 1,00 meter.
Weight	480 kg.	630 kg.	Ø40 mm. steel rod: 10,00 kg.
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: < 100 bar. / 60 ltr. / min. Hydraulic oil cap. 60 ltr.	
Operational speed	Up to 2,0 meter. / min.		
Operational range, Existing pipe diameter	Ø50 mm. → Ø250 mm.		



Hydraulic Power Pack

T37E power pack, 7,5 kW electric engine. 250 bar op. pressure.

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"

T47

HYDRO-STATIC PIPEBURSTER

47 metric tons of pulling power

Ø50 mm. → Ø250 mm. 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.



Solid steel rods

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

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	47 metric tons		
Measurements	160 x 45 x 50 cm.	120 x 110 x 120 cm.	Std. Ø45 mm. x 1,00 meter.
Weight	600 kg.	820 kg.	Ø45 steel rod: 12 kg.
Engine		Kubota 3-cyl. diesel 22 bhp. / 16,40 kW. Fuel cap. 35 ltr. Fuel consumption: 5 ltr. / hr.	
Hydraulic system	3 cylinders	250 bar / 3.625 psi. Pump. 1: 35,0 ltr. / min. Pump. 2: 22,5 ltr. / min. Variable pump flow: < 70 bar. → 57,5 ltr. / min. > 70 bar. → 22,5 ltr. / min. Hydraulic oil cap. 85 ltr.	
Operational speed	Up to 1,0 meter. / min. Cylinder stroke: 50 cm.		
Operational range, Existing pipe diameter	Ø50 mm. → Ø250 mm.		

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

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T47E

ELECTRO-STATIC PIPEBURSTER

47 metric tons of pulling power

Ø50 mm. → Ø250 mm. operational range

Pipe materials: Can operate in all known pipe materials



Cutting head

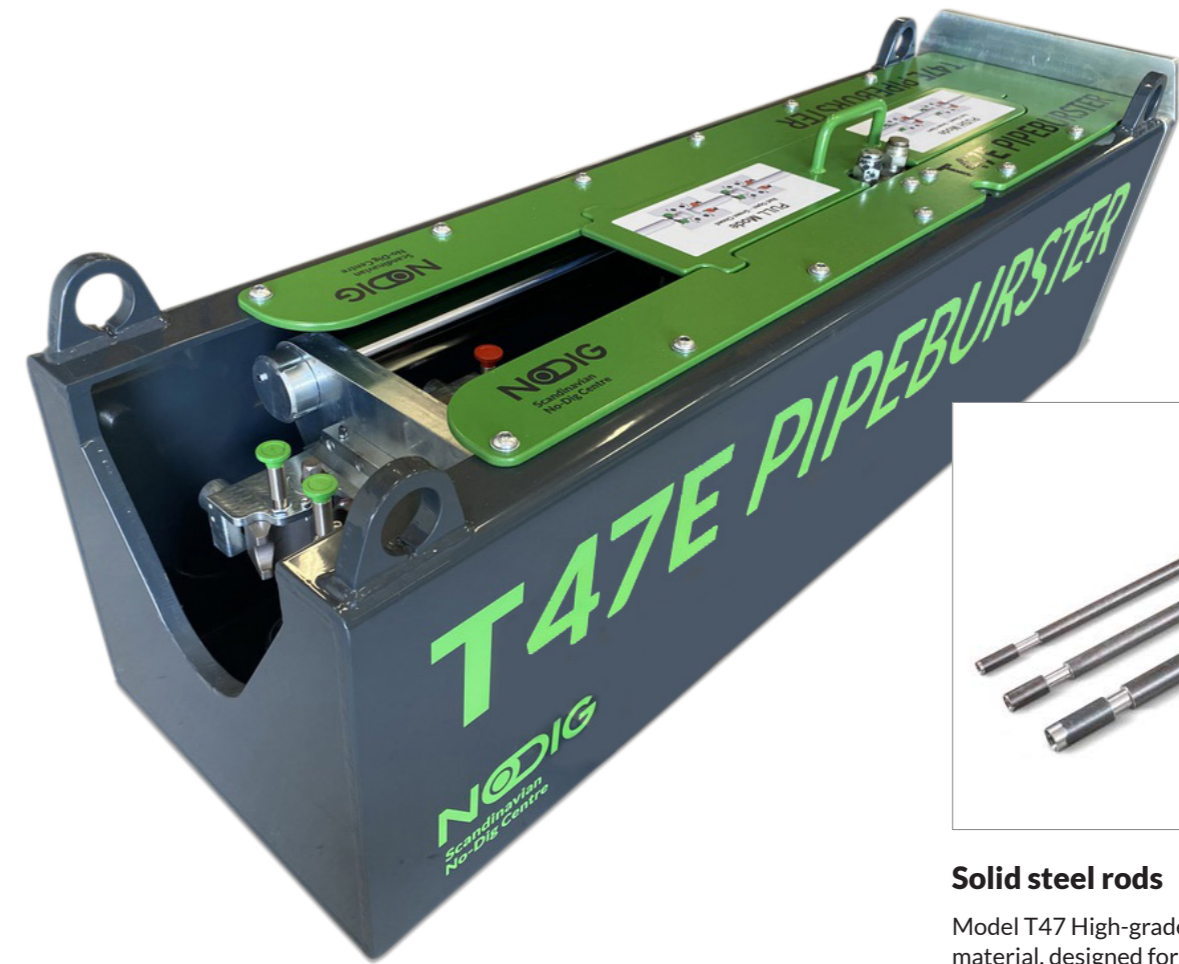
Excentric one-blade cutting head, designed for steel, cast and ductile

Extension frame

T47 heavy duty extension frame.

T47E jaw-system

Constant tension design.



Solid steel rods

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



Electro-Static Power Pack

7,5 kW electric engine / 250 bar op. pressure.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	47 metric tons		
Measurements	160 x 45 x 50 cm.	80 x 60 x 136 cm.	Std. Ø45 mm. x 1,00 meter.
Weight	600 kg.	630 kg.	Ø45 mm. steel rod: 12 kg.
Engine / Power supply		Electric engine 7,5 kW. 400 volt 16 amp. 50 Hz. Connection: 3P + N + PE CEE	
Hydraulic system	3 cylinders	Max 250 bar / 3.625 psi. 1 variable pump Variable pump flow: < 100 bar. / 60 ltr. / min. Hydraulic oil cap. 60 ltr.	
Operational speed	Up to 1,0 meter. / min.		
Operational range, Existing pipe diameter	Ø50 mm. → Ø250 mm.		

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"

T87

HYDRO-STATIC PIPEBURSTER

92 metric tons of pulling power

Ø75 mm. → Ø400 mm. operational range

Pipe materials: Can operate in all known pipe materials



T87 heavy duty extension frame.

Steel rod container holding 40 pc's of Ø60 mm. T87 steel rods.

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.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	92 metric tons		
Measurements	180 x 65 x 72 cm.	120 x 110 x 120 cm.	Std. Ø60 mm. x 0,75 meter.
Weight	1.400 kg.	820 kg.	Ø60 mm. steel rod: 15 kg.
Engine		Kubota 3-cyl. diesel 22 bhp. / 16,40 kW. Fuel cap. 35 ltr. Fuel consumption: 5 ltr. / hr.	
Hydraulic system	3 cylinders	Max. 250 bar / 3.625 psi. Pump. 1: 35,0 ltr. / min. Pump. 2: 22,5 ltr. / min. Variable pump flow: < 70 bar. => 57,5 ltr. / min. > 70 bar. => 22,5 ltr. / min. Hydraulic oil cap. 85 ltr.	
Operational speed	Up to 2,0 meter. / min.		
Operational range, Existing pipe diameter	Ø70 mm. → Ø400 mm.		

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

92 metric tons of pulling power

Ø75 mm. → Ø400 mm. operational range

Pipe materials: Can operate in all known pipe materials



T87E heavy duty extension frame.

Steel rod container holding 40 pc's of Ø60 mm. T87 steel rods.

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.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	92 metric tons		
Measurements	180 x 65 x 72 cm.	120 x 110 x 120 cm.	Std. Ø60 mm. x 0,75 meter.
Weight	1.400 kg.	820 kg.	Ø60 mm. steel rod: 15 kg.
Engine / Power supply		Electric engine 15 kW. 400 volt 32 amp. 50 Hz. Connection: 3P + N + PE CEE Aux. 230 volt / 1.200 W	
Hydraulic system	3 cylinders	Max 250 bar / 3.625 psi. Variable pump flow: 84 ltr. / min. (3.000 rpm.) Hydraulic oil cap. 115 ltr.	
Operational speed	Up to 2,0 meter. / min.		
Operational range	Ø70 mm. → Ø400 mm.		



Hydraulic Power Pack

15 kW. 32 amp. electric engine
250 bar op. pressure.

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"

T247

HYDRO-STATIC PIPEBURSTER

247 metric tons of pulling power

Ø150 mm. → Ø800 mm. operational range

Pipe materials: Can operate in all known pipe materials



T247 ARS

Hydraulic rod spinner.

Hydraulic Power Pack

T247 power pack. Volvo Penta diesel with turbo / Intercooler.

T247 steel rod system

Ø105 mm. x 1,00 meter long. Handled by on-board electrical crane.



Specifications	Pulling unit	Power pack	Steel rods
Pulling force	247 metric tons		
Measurements	222 x 110 x 115 cm.	270 x 150 165 cm.	Ø105 mm. x 1,0 meter
Weight	4.000 kg.	3.500 kg.	Ø105 mm. steel rod; 64 kg.
Engine		VOLVO PENTA DIESEL Inter cooler / turbo charged. 143 bhp. / 105 kW. Fuel cap. 300 ltr. Air compressor system 240 volt outlet (1.200 w)	
Hydraulic system	3 cylinders	250 bar / 3.625 psi Hydraulic oil cap. 600 ltr. Variable pump flow: 160 ltr. / min. (2.000 rpm. / min.)	
Operational speed	Up to 2,0 meter. / min. Stroke; 50 cm.		
Operational range, Existing pipe diameter	Ø150 mm. → Ø800 mm.		

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 T247 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.

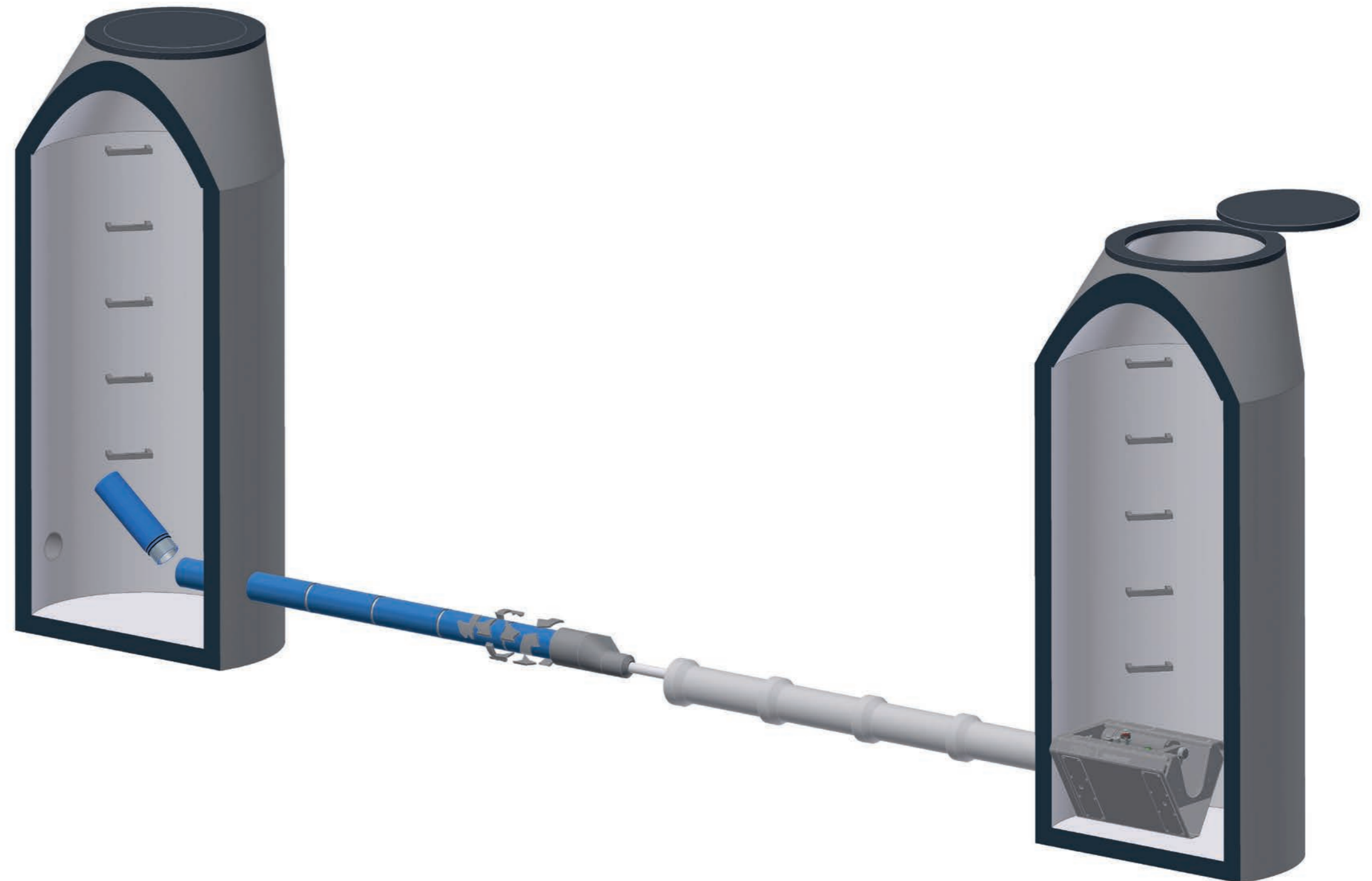
Upon arrival at the second vertical shaft, the solid steel rods are connected to the bursting head and new replacement pipe.

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.

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.



MINI-T

HYDRO-STATIC PIPEBURSTER

37 metric tons of pulling power

Ø40 mm. → Ø250 mm. operational range

Pipe materials: Can operate in all known pipe materials



mini-T pulling unit

Shown in a standard Ø1000 mm. service shaft concrete ring (1:1).

Support Plate

Radius 500 mm. 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 Ø1000 mm. service shaft (1:1)



Solid steel rods

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

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	37 metric tons		
Measurements	60 x 44 x 48 cm.	122 x 65 x 100 cm.	Std. Ø45 mm. x 0,30 meter. Option Ø30 mm. x 0,30 meter.
Weight	158 kg.	250 kg.	Ø45 mm. steel rod: 2,90 kg. Ø30 mm. steel rod: 1,35 kg.
Engine		Vanguard Petrol air-cooled 22 bhp. / 16,40 kW. Electrical start, 4-stroke Fuel cap. 20 ltr. Fuel consumption: 4 ltr. / hr.	
Hydraulic system	3 cylinders	250 bar / 3.625 psi. Variable pump flow: 18 ltr. / min. 2.500 rpm. Hydraulic oil cap. 60 ltr.	
Operational speed	Up to 1,0 meter. / min. Cylinder stroke: 10 cm.		
Operational range, Existing pipe diameter	Ø40 mm. → Ø250 mm.		



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"

MINI-TE

ELECTRO-STATIC PIPEBURSTER

37 metric tons of pulling power

Ø40 mm. → Ø250 mm. operational range

Pipe materials: Can operate in all known pipe materials



mini-TE pulling unit

Shown in a standard Ø1000 mm. service shaft concrete ring (1:1).



Solid steel rods

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



Threaded PP-module

Gravity sewer pipe system
Ø110 mm. → Ø400 mm.



Atlas Copco ZBP 45

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.

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	37 metric tons		
Measurements	60 x 44 x 48 cm.	80 x 60 x 136 cm.	Std. Ø45 mm. x 0,30 meter. Option Ø30 mm. x 0,30 meter.
Weight	158 kg.	630 kg.	Ø45 mm. steel rod: 2,90 kg. Ø30 mm. steel rod: 1,35 kg.
Engine		Electric 7,5 kW 400 volt 16 amp. 50 Hz Connection: 3P + N + PE CEE	
Hydraulic system	3 cylinders	250 bar / 3.625 psi. 1 variable pump Variable pump flow: < 100 bar / 60 ltr. / min. Hydraulic oil cap. 60 ltr.	
Operational speed	Up to 1,0 meter. / min. Cylinder stroke: 10 cm.		
Operational range, Existing pipe diameter	Ø40 mm. → Ø250 mm.		

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"

MAXI-T

HYDRO-STATIC PIPEBURSTER

60 metric tons of pulling power

Ø80 mm. → Ø400 mm. operational range

Pipe materials: Can operate in all known pipe materials



maxi-T

Shown in a standard Ø1000 mm. concrete shaft ring (1:1).

Support Plate

Radius 500 mm. 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 Ø1000 mm. service shaft (1:1)



Solid steel rods

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

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	60 metric tons		
Measurements	73 x 54 x 58 cm.	122 x 65 x 100 cm.	Std. Ø60 mm. x 0,33 meter.
Weight	380 kg.	250 kg.	Ø60 mm. steel rod: 5,75 kg.
Engine		Vanguard Petrol air-cooled 22 bhp. / 16,40 kW. Electrical start, 4-stroke Fuel cap. 20 ltr. Fuel consumption: 4 ltr. / hr.	
Hydraulic system	3 cylinders	250 bar / 3.625 psi. Variable pump flow: 18 ltr. / min. 2.500 rpm. Hydraulic oil cap. 60 ltr.	
Operational speed	Up to 0,60 meter. / min. Cylinder stroke: 11 cm.		
Operational range, Existing pipe diameter	Ø80 mm. → Ø400 mm.		



Hydraulic Power Pack

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

Designer's note:

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

MAXI-TE

ELECTRO-STATIC PIPEBURSTER

60 metric tons of pulling power

Ø80 mm. → Ø400 mm. operational range

Pipe materials: Can operate in all known pipe materials



maxi-TE

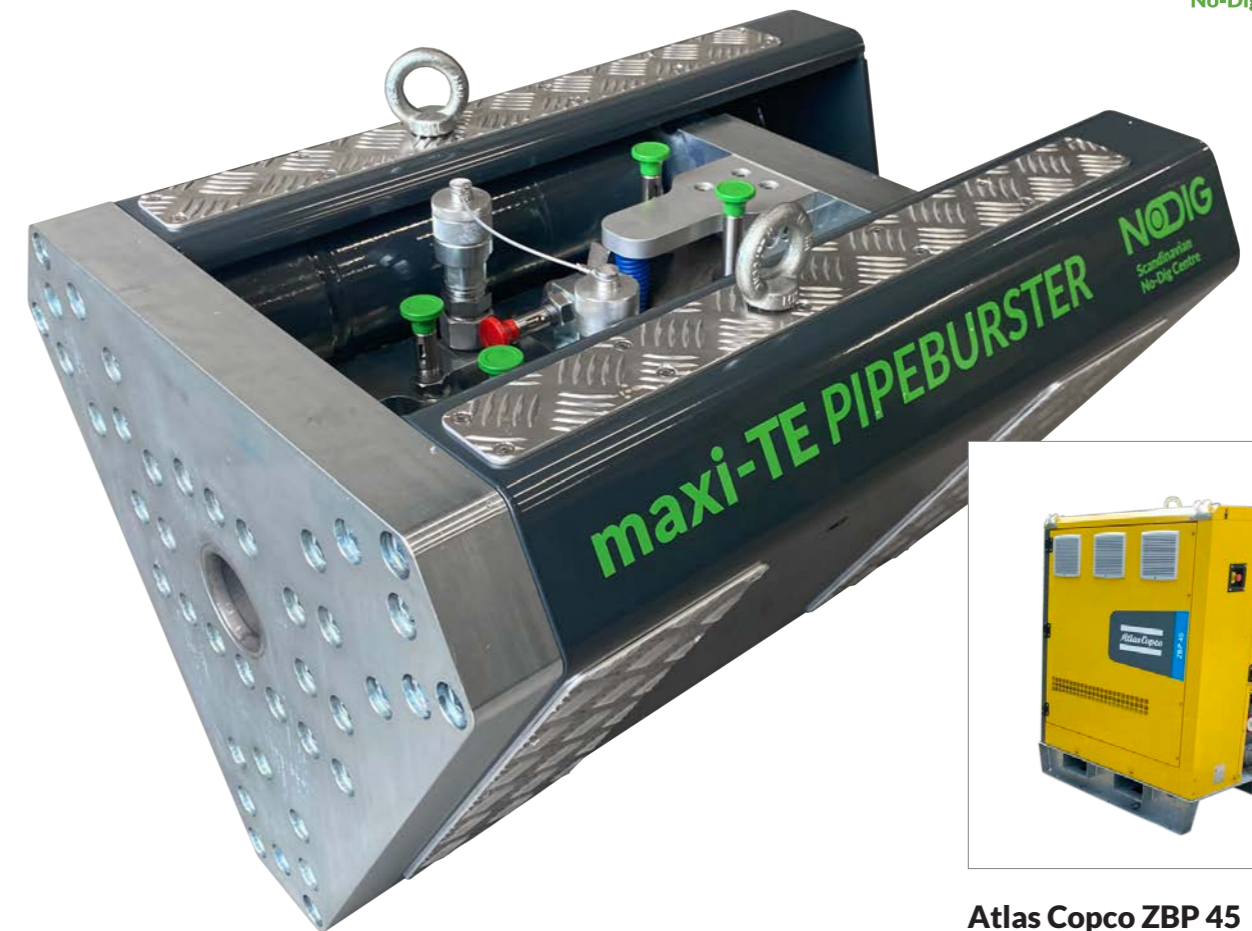
Shown in a standard Ø1000 mm. concrete shaft ring (1:1).

Threaded PP-module

Gravity sewer pipe system
Ø110 mm. → Ø400 mm.

Solid steel rods

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



Atlas Copco ZBP 45

Battery power bank
38 kW / 45 KVA / 46 kWh

Specifications	Pulling unit	Power pack	Steel rods
Pulling force	60 metric tons		
Measurements	73 x 54 x 58 cm.	80 x 60 x 136 cm.	Std. Ø60 mm. x 0,33 meter.
Weight	380 kg.	630 kg.	Ø60 mm. steel rod: 2,90 kg.
Engine		Electric engine 7,5 kW 400 volt 15 amp. 50 Hz. Connection: 3P + N + PE CEE	
Hydraulic system	3 cylinders	250 bar / 3.625 psi. 1 variable pump Variable pump flow: < 100 bar / 60 ltr. / min. Hydraulic oil cap. 60 ltr.	
Operational speed	Up to 0,60 meter. / min. Cylinder stroke: 11 cm.		
Operational range, Existing pipe diameter	Ø80 mm. → Ø400 mm.		



Hydraulic Power Pack

Maxi-TE power pack, 7,5 kW electric engine. 250 bar op. pressure.

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"

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
Ø25 mm. → Ø800 mm.

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

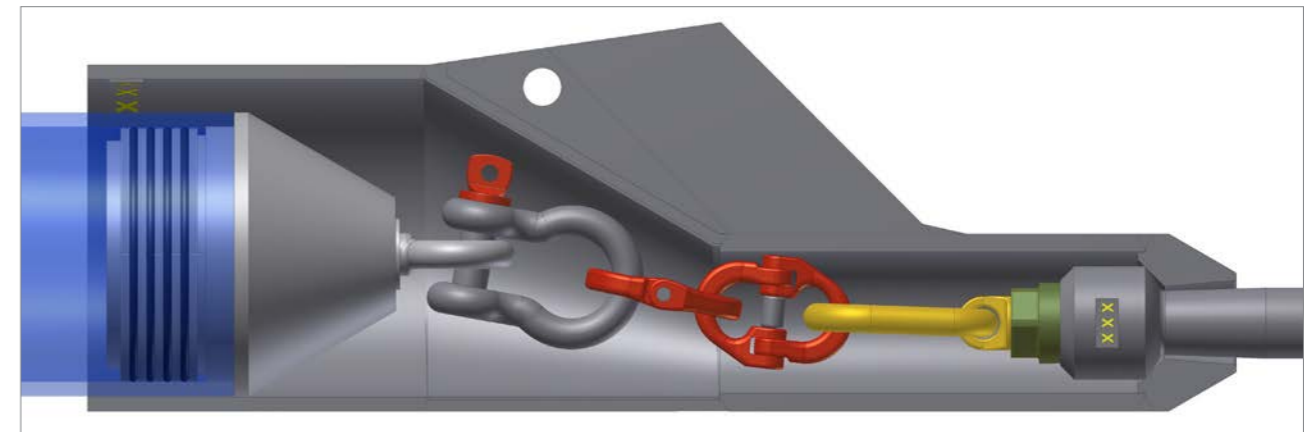
Composite steel rod systems
High-grade safety margin & flexibility.

Accessories

Adaptors, pilot rods and connection tools.

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

The frame is used to create space between the excavation wall and the pulling unit. Once in position, the bursting head and new pipe can be pulled out from the ground and into the open perimeter of the frame.

Accessories

Connection rods.



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