

**MASTENBROEK**

**COMPACT.  
AGILE.  
POWERFUL.**

The Bulldog utility trencher from Mastenbroek is the ultimate in cost-effective versatility and capability.



 **BULLDOG**  
A NEW BREED OF UTILITY TRENCHER



## THE BULLDOG FOR UTILITY TRENCHING

Front conveyor: variable speed. 68° swing.  
5.7' to 10.5' discharge height

Cabin: ROPS certified

Compact: working width 8.86'.  
Transport width 8.2'  
including conveyor

Trench: 6ft x 21"

Trench offset: 23.6"  
left or right

Engine: US EPA Tier 4 final  
compliant Volvo 8-litre  
engine. 248hp (185kW)

Track lift: independent 13"

The Bulldog is Mastenbroek's first-ever utility trencher designed specifically for US worksites.

A small footprint, rugged frame and heavy-duty trencher for utility installation and pipeline work.

Based on the Mastenbroek 17/17, which is proven across Europe, the Bulldog offers a new engine, enhanced digging mechanism, and hydrostatic drive system at a competitive price.



# GROUND-BREAKING ENGINEERING: BIG PERFORMANCE - SMALL STATURE

Designed specifically for US utility and pipeline contractors, the Bulldog is unlike any other trencher on the market in terms of footprint, trenching power, manoeuvrability, reliability and standard features.

## COMPACT, POWERFUL & EFFICIENT

**Perfectly Formed.** With a working width of 8.86' (2.7m) and a transport width of 8.2' (2.5m), the Bulldog is at home on cross country, rural roads or narrow streets.

**Offset & Curved Trenching.** The digging mechanism offsets left and right and Mastenbroek's heavy-duty undercarriage slews to allow precise curved trenching.

**Clean Trenching.** A hydraulic lifting and pivoting scraper shoe ensures a clean trench bottom on straight and curved trenches.

**Stability.** The hydraulic road shoe stabilizes the digging mechanism. Both tracks lift independently to deliver stability and traction to maintain a vertical trench on uneven ground.



**Maximized Productivity.** Mastenbroek's Load Control System matches forward speed to ground conditions to maximize productivity while reducing fuel consumption and chain and pick wear.

**Versatile Discharge.** A variable speed and height-controlled forward conveyor system enables spoil discharge into a truck. As the cross conveyor works independently of the forward conveyors, spoil can be discharged to the left or right-hand side as needed.

**Precision.** Interchangeable digging booms allow the chain to cut at the optimum angle according to trench depth.



## PROVEN PERFORMANCE

**A Cut Above.** Our hydrostatic system is without compromise. Generously sized components, from world-class manufacturers, with capacity in reserve enable trenching in varied and demanding ground conditions.

**Oil Optimization.** The Mastenbroek multi-point hydraulic filtration system, combined with a large independent oil cooler, maintains the hydraulic system in optimum condition.

**Access All Areas.** Convenient access service panels and doors make servicing simple. Mastenbroek genuine wear parts are proven over three decades of trenching rock.



## JOB SITE COMFORT

**Visibly Better.** A full-sized ROPS-certified cabin gives optimum visibility of the tracks, digging mechanism & discharge conveyors. Cameras and work lights improve visibility day and night.

**Climate Controlled.** Heating, air conditioning, tinted windows, and a high-backed comfort seat with air suspension and heating ensure operator comfort all year round.

**Fingertip Control.** Proportional joystick controls for the digging mechanism, conveyors and tracks are seat mounted.



## WHEREVER THE ROAD TAKES YOU

**Rapid Deployment.** As the operator cabin sits within the track width, it is always ready for transport, and the forward discharge conveyors hydraulically fold onto the machine for quick and easy mobilization.

## ENGINE

<b>Make</b>	Volvo Penta Industrial Diesel engine
<b>Type</b>	TAD881VE
<b>Emission certified</b>	US EPA Tier 4 final (EU stage 5)
<b>Power (DIN 6270B)</b>	248 hp (185kw)
<b>No. of cylinders</b>	6
<b>Electric starting</b>	24 V

## TANK CAPACITIES

<b>Diesel fuel</b>	92 US gal (350 litres) electric refill
<b>DEF (AdBlue)</b>	12 US gal (45 litres) manual refill
<b>Hydraulic oil</b>	116 US gal (440 litres) electric refill

## GENERAL DIMENSIONS (APPROX)

<b>Width transport</b>	8.2' (2.5 m)
<b>Width operating</b>	8.86' (2.7 m)
<b>Length - 6' (1.83m) boom</b>	36.5' (11.15 m)
<b>Height</b>	10.7' (3.25 m)
<b>Operating weight</b>	47,000 lb (21,300 Kg)

## SPEED

<b>Track speed - Low</b>	Stepless adjustable 0 – 136 ft/min (0 – 41 mtrs/min)
<b>Track speed - High</b>	Stepless adjustable 0 – 272 ft/min (0 – 82 mtrs/min)

## UNDERCARRIAGE

<b>Construction</b>	Slewable heavy duty undercarriage
<b>Machine levelling</b>	Auto track lift 13" (33 cm)
<b>Type</b>	Equivalent to D2
<b>Pad type</b>	Triple grouser 21.7" (55 cm) width
<b>Rollers</b>	Lifetime lubricated
<b>Track drive</b>	Independent hydrostatic 24 Kn
<b>Track tension</b>	Hydraulic –grease gun type
<b>Track length</b>	13.45' (4.1 m)
<b>Track width</b>	6.73' (2.05 m)
<b>Parking brake</b>	Hydrostatic

## CABIN

<b>Full sized (L x W x H)</b>	49" x 64" x 74" (123 cm x 162 cm x 190 cm)
<b>Climate control</b>	Heating, air conditioning, tinted windows
<b>Operators seat</b>	Pivoting, high backed, air suspension & heated
<b>LH seat mounted controls</b>	Digging mechanism, conveyors and machine slew: proportional joystick
<b>RH seat mounted controls</b>	Steering and track lift: proportional joystick
<b>Load control system</b>	Matches forward speed to ground conditions
<b>Lighting</b>	Cabin internal & external working lights
<b>Camera system</b>	3 cameras. Color monitor
<b>ROPS</b>	Certified to ISO 3471:2008

## SPOIL DISCHARGE

<b>Cross Conveyor</b>	Discharge to the left or right hand side
- Discharge speed	Stepless adjustable 0-10.17 ft/s (0-3.1 mtrs/s)
- Conveyor belt width	Flat belt 23.6" (60 cm)
<b>Forward conveyor</b>	Discharge onto swing conveyor
- Discharge speed	Stepless adjustable 0-14.11 ft/s (0-4.3 mtrs/s)
- Conveyor belt width	Cleated belt 17.7" (45 cm)
<b>Swing conveyor</b>	Slew from central - LH 24°, RH 44°
- Discharge height	Variable 5.7'-10.5' (1.75 m - 3.2 m)
- Discharge speed	Stepless adjustable 0-15.09 ft/s (4.6 mtrs/s) with speed boost
- Conveyor belt width	Flat belt 23.6" (60 cm)

## DIGGING UNIT

<b>Digging unit offset</b>	From central - 23.6" (60 cm) left and 23.6" (60 cm) right
<b>Cutting chain speed</b>	Stepless adjustable 0-14.1 ft/s (0-4.3 mtrs/s)
<b>Digging method</b>	Heavy duty digging chain with conical rotary carbide point attack
<b>Chain drive</b>	Hydrostatic direct coupled, independent low speed high torque Hagglund motor
<b>Chain tension</b>	Hydraulic grease gun type
<b>Trench scraper shoe</b>	Hydraulic lifting and pivoting
<b>Road shoe</b>	Stabilizes the digging mechanism
<b>Bottom idler wheel</b>	30.3" (77 cm) diameter

## TRENCH SIZE

<b>Boom depth options</b>	4', 5', 6' (1.2 m, 1.52 m, 1.82 m)*
<b>Trenching width</b>	Minimum 10" (25 cm) – Maximum 21" (53 cm)*

\*Please note - If both maximum trench sizes are required please contact Mastenbroek  
Mastenbroek Ltd reserves the right to alter the design & specification at any time without notice or obligation.

# MASTENBROEK TRENCHERS, CRAWLER TRUCKS AND HEAVY EQUIPMENT

## TRENCHING PIONEERS

At Mastenbroek, we are proud of our global reputation as pioneers of trenching technology.

Since 1977, our innovations have led to ground-breaking developments in continuous trenching.

Today, in partnership with Port Industries, we offer a range of heavy-duty top-tier machinery designed specifically for US worksites delivering accurate, efficient trenching.

## SERVICE AND SUPPORT

A machine is only as good as its parts; that's why Mastenbroek has partnered with Port Industries to offer a comprehensive parts inventory, maintenance, repair and reconfiguration.

Trained by Mastenbroek engineers, local technicians are qualified to deliver the support and service you need ensuring maximum uptime and site productivity.

## PORT INDUSTRIES

Based in Palmyra, Missouri, Port Industries has worked with Mastenbroek for many years and carries a comprehensive stock of parts for US-based after-sales support.



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