

GROUND-BREAKING ENGINEERING: BIG PERFORMANCE - SMALL STATURE

Designed specifically for 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

zed 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 worldclass 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

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

JOBSITE 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

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	
Make	Volvo Penta Industrial Diesel engine
Туре	TAD881VE
Emission certified	US EPA Tier 4 final (EU stage 5)
Power (DIN 6270B)	248 hp (185kw)
No. of cylinders	6
Electric starting	24 V
TANK CAPACITIES	
Diesel fuel	92 US gal (350 litres) electric refill
DEF (AdBlue)	12 US gal (45 litres) manual refill
Hydraulic oil	116 US gal (440 litres) electric refill
GENERAL DIMENSION	NS (APPROX)
Width transport	8.2' (2.5 m)
Width operating	8.86' (2.7 m)
Length - 6' (1.83m) boom	36.5' (11.15 m)
Height	10.7' (3.25 m)
Operating weight	47,000 lb (21,300 Kg)
SPEED	
Track speed - Low	Stepless adjustable 0 – 136 ft/min (0 – 41 mtrs/min)
Track speed - High	Stepless adjustable 0 – 272 ft/min (0 – 82 mtrs/min)

UNDERCARRIAGE	
Construction	Slewable heavy duty undercarriage
Machine levelling	Auto track lift 13" (33 cm)
Туре	Equivalent to D2
Pad type	Triple grouser 21.7" (55 cm) width
Rollers	Lifetime lubricated
Track drive	Independent hydrostatic 24 Kn
Track tension	Hydraulic–grease gun type
Track length	13.45' (4.1 m)
Track width	6.73' (2.05 m)
Parking brake	Hydrostatic
CABIN	
Full sized (L x W x H)	49" x 64" x 74" (123 cm x 162 cm x 190 cm)
Climate control	Heating, air conditioning, tinted windows
Operators seat	Pivoting, high backed, air suspension & heated
LH seat mounted controls	Digging mechanism, conveyors and machine slew: proportional joystick
RH seat mounted controls	Steering and track lift: proportional joystick
Load control system	Matches forward speed to ground

conditions

Cabin internal & external working lights

3 cameras. Color monitor

Certified to ISO 3471:2008

Lighting

ROPS

Camera system

SPOIL DISCHARGE	
Cross Conveyor	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)
Forward conveyor	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)
Swing conveyor	Slew from central - LH 24°, RH 44°
- Discharge height	Variable 6.1'-11.2' (1.85 m - 3.4 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	
Digging unit offset	From central - 23.6" (60 cm) left and 23.6"
	(60 cm) right
Cutting chain speed	(60 cm) right Stepless adjustable 0-14.1 ft/s (0-4.3 mtrs/s)
Cutting chain speed Digging method	
	Stepless adjustable 0-14.1 ft/s (0-4.3 mtrs/s) Heavy duty digging chain with conical rotary
Digging method	Stepless adjustable 0-14.1 ft/s (0-4.3 mtrs/s) Heavy duty digging chain with conical rotary carbide point attack Hydrostatic direct coupled, independent low
Digging method Chain drive	Stepless adjustable 0-14.1 ft/s (0-4.3 mtrs/s) Heavy duty digging chain with conical rotary carbide point attack Hydrostatic direct coupled, independent low speed high torque Hagglund motor

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

30.3" (77 cm) diameter

Bottom idler wheel

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

