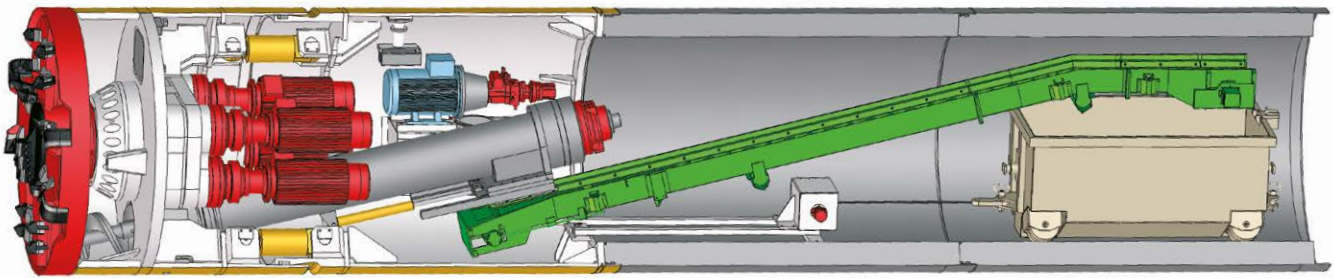


# EPB1500AE – EPB2500AE

## PIPE JACKING – MUCK WAGGON



### Special Features

- › Face support by earth pressure
- › Soil conditioning by foam injection in excavation chamber and screw conveyor possible
- › Maximum dimension of screw conveyor
- › Control panel inside machine (for EPB2000 and larger)
- › Designed for soft and mixed ground conditions by use of different cutting wheels (full face excavation)
- › Access to cutting wheel for tool replacement (backloading system)
- › Equipped with heavy duty long-life main bearing and high torque electrical drive
- › All machines compatible with TUnIS MT Navigation System
- › Muck pump conveyance possible

TECHNICAL DATA	EPB1500AE	EPB1600AE	EPB1800AE	EPB2000AE	EPB2200AE	EPB2400AE	EPB2500AE
<b>1. Articulated Shield</b>							
› Outer diameter	1,810 mm	1,970 mm	2,150 mm	2,425 mm	2,655 mm	2,835 mm	3,025 mm
› Pipe OD	1,780 mm	1,940 mm	2,120 mm	2,400 mm	2,630 mm	2,810 mm	3,000 mm
› Pipe ID	1,500 mm	1,600 mm	1,800 mm	2,000 mm	2,200 mm	2,400 mm	2,500 mm
<b>Main Drive</b>							
› Max. torque	175 kNm	175 kNm	335 kNm	335 kNm	450 kNm	520 kNm	520 kNm
› Revolution soft start (LH/RH)	3.6 rpm	3.6 rpm	2.8 rpm	2.8 rpm	2.8 rpm	2.4 rpm	2.4 rpm
› Revolution frequency converter opt.*	0–4.3 rpm	0–4.3 rpm	0–3.3 rpm	0–3.3 rpm	0–3.3 rpm	0–2.8 rpm	0–2.8 rpm
› Rated power	60 kW	60 kW	90 kW	90 kW	120 kW	120 kW	120 kW
› Screw Conveyor diameter	350 mm	350 mm	350 mm	400 mm	400 mm	500 mm	500 mm
› Roll correction	x	x	x	x	x	x	x
<b>Steering</b>							
› Steering cylinders	4	4	4	4	8	8	8
› Force per cyl./oil pressure	646 kN/420 bar	844 kN/420 bar	1,068 kN/420 bar	1,068 kN/420 bar	647 kN/420 bar	647 kN/420 bar	647/420 bar
› Stroke per cyl.	60 mm	60 mm	100 mm	100 mm	100 mm	100 mm	100 mm
<b>Control</b>							
› Computer data logging system	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› Fuzzy control (automatic steering)	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› Fully visualized process control	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› Active roll protection (el.-hydr.)	x	x	x	x	x	x	x
› Suitability TUnIS MT Navigation System:							
› Laser	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› HydroLevel	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› Gyro	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› LaserTotalstation	–	x	x	x	x	x	x
<b>2. Machine Can</b>							
› Lubrication system	x	x	x	x	x	x	x
<b>3. General Information</b>							
› Pipe Jacking	x	x	x	x	x	x	x
› Drive length (recommended)	400 m	500 m	500 m	600 m	600 m	600 m	600 m
› Access to cutting wheel	x	x	x	x	x	x	x
› Waterproofness (bar)	3 bar	3 bar	3 bar	3 bar	3 bar	3 bar	3 bar
› Telescopic and interjacking station	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› Cutting wheel drive via frequency converter	opt.	opt.	opt.	opt.	opt.	opt.	opt.
› Foam injection system	opt.	opt.	opt.	opt.	opt.	opt.	opt.

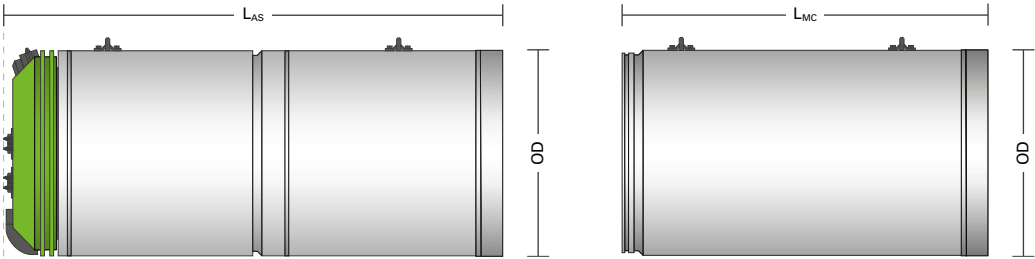
\*Frequency converter powered main drive

**PIONEERING  
UNDERGROUND  
TECHNOLOGIES**



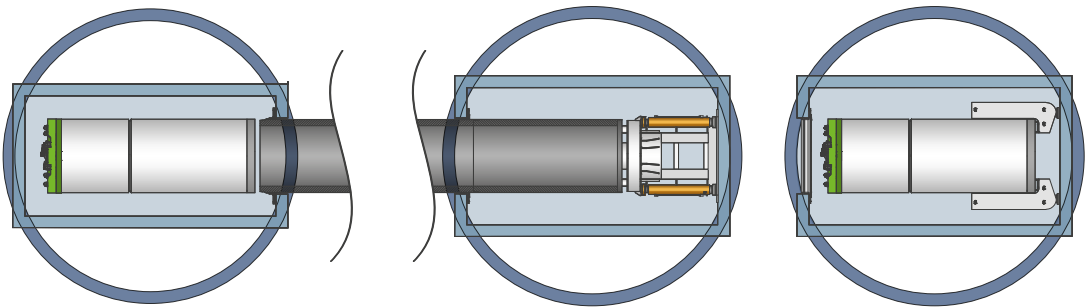
Machine dimensions

TECHNICAL DATA	EPB1500AE	EPB1600AE	EPB1800AE	EPB2000AE	EPB2200AE	EPB2400AE	EPB2500AE
Machine dimensions							
› Outer diameter	1,810 mm	1,970 mm	2,150 mm	2,425 mm	2,655 mm	2,835 mm	3,025 mm
› Length artic. shield (L <sub>AS</sub> )	5,100 mm	5,100 mm	5,100 mm	5,100 mm	5,100 mm	5,100 mm	5,100 mm
› Length machine can (L <sub>Mc</sub> )	–	–	–	–	–	–	–
› Max. single weight	17,000 kg	19,000 kg	30,000 kg	32,000 kg	35,000 kg	48,000 kg	50,000 kg



Shaft dimensions

TECHNICAL DATA	EPB1500AE	EPB1600AE	EPB1800AE	EPB2000AE	EPB2200AE	EPB2400AE	EPB2500AE
Launch Shaft	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size
› Main jacking station (circular)	Ø = 8.5m	Ø = 8.5m	Ø = 8.5m	Ø = 8.5m	Ø = 8.5m	Ø = 9.0m	Ø = 9.0m
› Pipe length ≤ 3,000mm (rectangular)	4.5m × 8.0m	4.5m × 8.0m	5.0m × 8.0m	5.0m × 8.0m	5.5m × 8.0m	5.5m × 8.0m	5.5m × 8.0m
Reception Shaft (L <sub>AS</sub> )	5,100mm	5,100mm	5,100mm	5,100mm	5,100mm	5,100mm	5,100mm
› Circular	Ø = 6.5m	Ø = 6.5m	Ø = 6.5m	Ø = 6.5m	Ø = 7.0m	Ø = 7.0m	Ø = 7.0m
› Rectangular	3.0m × 6.0m	3.0m × 6.0m	3.0m × 6.0m	3.5m × 6.0m	3.5m × 6.0m	4.0m × 6.0m	4.5m × 6.0m



Machine type description e.g. EPB<sup>1)</sup> 1500<sup>2)</sup> A<sup>3)</sup> E<sup>4)</sup>

- 1) Machine type
- 2) ID of jacking pipe
- 3) Access to cutting wheel

X = no access

T = central door

A = door above main drive or in top of pressure wall
- 4) Type of container, power transfer from container to machine

B = electric cable to machine, power pack in machine power pack in machine

C = hydraulic drive from container directly into machine

E = electric cable from container directly into machine

H = medium voltage supply to machine (> 1,000 V)

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All dimensions and data refer to customizable basic product features.

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