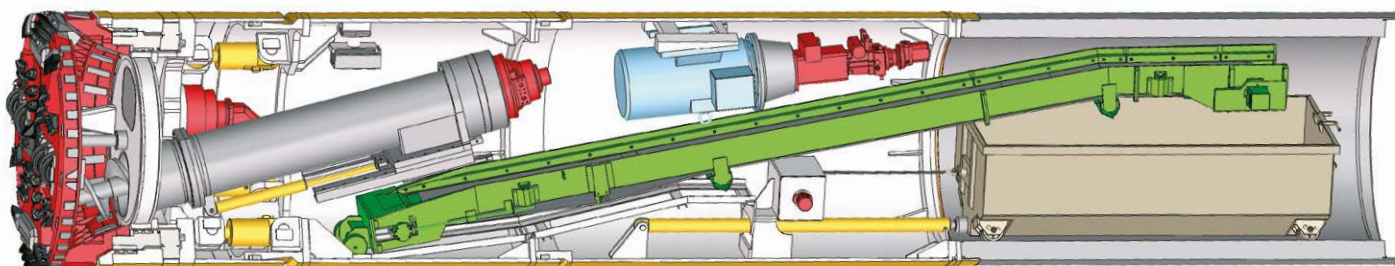


# EPB1400TB – EPB2600TB PIPE JACKING – MUCK WAGGON



## Special Features

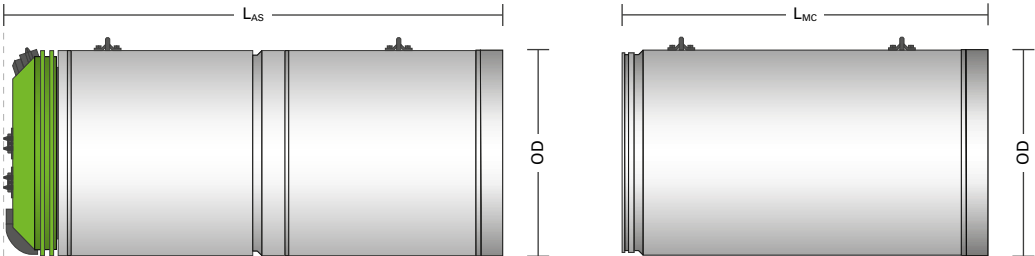
- › Face support by earth pressure
- › Soil conditioning by foam injection in excavation chamber and screw conveyor possible
- › Maximum dimension of screw conveyor
- › Designed for soft and mixed ground conditions by use of different cutting wheels (full face excavation)
- › Access to cutting wheel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

TECHNICAL DATA	EPB1400TB		EPB1500TB		EPB1600TB		EPB1800TB		EPB2000TB		EPB2200TB		EPB2400TB		EPB2600TB	
	Std*	Ext*	Std	Ext	Std	Ext	Std	Ext	Std	Ext	Std	Ext	Std	Ext	Std	Ext
1. Articulated Shield																
› Outer diameter (mm)	1,740	1,810	1,810	1,970	1,970	2,150	2,150	2,425	2,425	2,725	2,725	3,025	3,025	3,325	3,325	3,625
› Pipe OD (mm)	1,720	1,780	1,780	1,940	1,940	2,120	2,120	2,400	2,400	2,700	2,700	3,000	3,000	3,300	3,100	3,600
› Pipe ID (mm)	1,400	1,500	1,500	1,600	1,600	1,800	1,800	2,000	2,000	2,200	2,200	2,400	2,400	2,800	2,600	3,000
Main Drive																
› Max. torque	236kNm		236kNm		280kNm		530kNm		820kNm		820kNm		1,020kNm		1,200kNm	
› Revolution (LH/RH)	0–6rpm		0–6rpm		0–5rpm		0–5rpm		0–5rpm		0–5rpm		0–6rpm		0–5rpm	
› Rated power	110kW		110kW		132kW		160kW		250kW		250kW		315kW		315kW	
› Roll correction	x		x		x		x		x		x		x		x	
Steering																
› Steering cylinders	4		4		4		4		4		8		8		8	
› Force per cyl./oil pressure (kN/bar)	646/420		646/420		844/420		1,068/420		1,068/420		647/420		647/420		647/420	
› Stroke per cylinder	60mm		60mm		60mm		100mm		100mm		100mm		100mm		100mm	
Control																
› Computer data logging system	x		x		x		x		x		x		x		x	
› Fuzzy control (automatic steering)	opt.		opt.		opt.		opt.		opt.		opt.		opt.		opt.	
› Fully visualized process control	x		x		x		x		x		x		x		x	
› Active roll protection (el.-hydr.)	x		x		x		x		x		x		x		x	
› Suitability TUNIS MT Navigation System:																
› Laser	x		x		x		x		x		x		x		x	
› HydroLevel	x		x		x		x		x		x		x		x	
› Gyro	x		x		x		x		x		x		x		x	
› LaserTotalstation	–		–		x		x		x		x		x		x	
2. Machine Can																
› Lubrication system	x		x		x		x		x		x		x		x	
3. General Information																
› Pipe Jacking	x		x		x		x		x		x		–		–	
› Drive length (recommended)	400m		500m		700m		900m		1,100m		1,100m		1,100m		1,100m	
› Access to cutting wheel	x		x		x		x		x		x		x		x	
› Waterproofness	3bar		3bar		3bar		3bar		3bar		3bar		3bar		3bar	
› Telescopic and interjacking station	opt.		opt.		opt.		opt.		opt.		opt.		opt.		opt.	

\*Std = standard; Ext = extension kit

# Machine dimensions

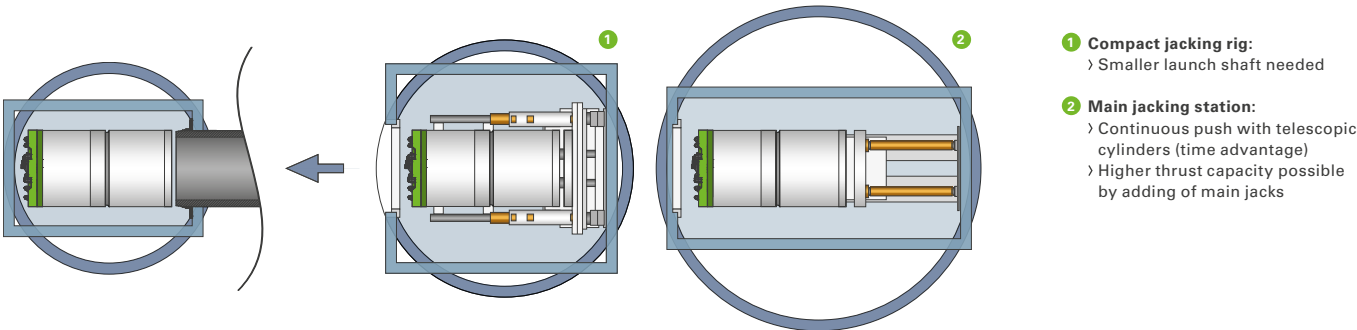
TECHNICAL DATA	EPB1400TB	EPB1500TB	EPB1600TB	EPB1800TB	EPB2000TB	EPB2200TB	EPB2400TB	EPB2600TB
› Outer diameter (OD)	1,740 mm	1,810 mm	1,970 mm	2,150 mm	2,425 mm	2,725 mm	3,025 mm	3,125 mm
› Length artic. shield (L <sub>AS</sub> )	3,800 mm	3,800 mm	3,800 mm	4,200 mm	5,700 mm	6,000 mm	6,000 mm	6,000 mm
› Length machine can (L <sub>MC</sub> )	3,200 mm	3,200 mm	3,200 mm	3,600 mm	3,600 mm	3,600 mm	3,600 mm	3,600 mm
› Max. single weight	19,000 kg	20,000 kg	24,000 kg	30,000 kg	45,000 kg	50,000 kg	55,000 kg	60,000 kg



# Shaft dimensions

TECHNICAL DATA		EPB1400TB	EPB1500TB	EPB1600TB	EPB1800TB	EPB2000TB	EPB2200TB	EPB2400TB	EPB2600TB
Launch Shaft	Pipe length	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size
› Main jacking station	2,500 mm	Ø = 8.0 m 8.0 m x 3.5 m	Ø = 8.0 m 8.0 m x 3.5 m	–	–	–	–	–	–
	3,000 mm	Ø = 8.5 m 8.5 m x 3.5 m	Ø = 8.5 m 8.5 m x 3.5 m	Ø = 8.5 m 8.5 m x 3.5 m	Ø = 9.0 m 9.0 m x 4.0 m	Ø = 11.0 m 10.5 m x 4.5 m	Ø = 11.0 m 11.0 m x 5.0 m	Ø = 11.5 m 11.0 m x 5.0 m	Ø = 11.5 m 11.0 m x 5.0 m
Reception Shaft (L <sub>AS</sub> )	3,800 mm	3,800 mm	3,800 mm	4,200 mm	5,700 mm	6,000 mm	6,000 mm	6,000 mm	6,000 mm
› Circular	Ø = 5.0 m	Ø = 5.0 m	Ø = 5.0 m	Ø = 5.5 m	Ø = 7.0 m	Ø = 7.5 m	Ø = 7.5 m	Ø = 7.5 m	Ø = 7.5 m
› Rectangular	4.5 m x 2.5 m	4.5 m x 2.5 m	4.5 m x 3.0 m	5.0 m x 3.0 m	6.5 m x 3.5 m	7.0 m x 4.0 m	7.0 m x 4.0 m	7.0 m x 4.0 m	7.0 m x 4.0 m

All dimensions according to 15m shaft depth.



Machine type description e.g. EPB<sup>1)</sup> 1400<sup>2)</sup> T<sup>3)</sup> B<sup>4)</sup>

- <sup>1)</sup> Machine type
- <sup>2)</sup> ID of jacking pipe
- <sup>3)</sup> Access to cutting wheel
  - X = no access
  - T = central door
  - A = door above main drive or in top of pressure wall
- <sup>4)</sup> 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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