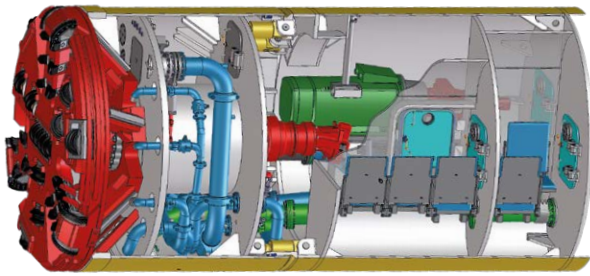


AVND2400AB – AVND3000AB

PIPE JACKING



Special Features

- › Mixshield-mode for inhomogeneous soil conditions or low coverage
- › Alternatively: conventional Slurry-mode
- › Designed for soft ground, mixed ground and hard rock 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
- › Different (variable) flushing modes/jet systems to suit different ground conditions
- › Medium pressure water system for operation in cohesive soil
- › Providing highly effective cone crusher
- › Equipped with heavy duty long-life main bearing and high torque central drive
- › Hydraulic power pack integrated in the machine
- › Completely remote-controlled
- › All machines compatible with TUNIS MT Navigation System

TECHNICAL DATA	AVND2400AB		AVND2500AB		AVND2600AB		AVND3000AB	
	Std*	Ext*	Std	Ext	Std	Ext	Std	Ext
1. Articulated Shield								
› Outer diameter (mm)	3,025	3,625	3,025	3,625	3,125	3,625	3,625	4,225
› Pipe OD (mm)	3,000	3,600	3,000	3,600	3,100	3,600	3,600	4,200
› Pipe ID (mm)	2,400	3,000	2,500	3,000	2,600	3,000	3,000	3,600
Main Drive								
› Max. torque	1,200 kNm		1,200 kNm		1,200 kNm		1,600 kNm	
› Revolution (LH/RH)	0–8rpm		0–8rpm		0–8rpm		0–6.5rpm	
› Rated power	315 kW		315 kW		315 kW		400 kW	
› Roll correction	x		x		x		x	
Steering								
› Steering cylinders	8		8		8		8	
› Force per cyl./oil pressure	647 kN/420 bar		647 kN/420 bar		647 kN/420 bar		844 kN/420 bar	
› Stroke per cylinder	150 mm		150 mm		150 mm		150 mm	
Control								
› Computer data logging system	x		x		x		x	
› Fuzzy control (automatic steering)	opt.		opt.		opt.		opt.	
› Fully visualized process control	x		x		x		x	
› Active roll protection (el.-hydr.)	x		x		x		x	
› Suitability TUNIS MT Navigation System:								
› Laser	x		x		x		x	
› HydroLevel	x		x		x		x	
› Gyro	x		x		x		x	
› LaserTotalstation	x		x		x		x	
2. Machine Can								
› Lubrication system	x		x		x		x	
3. General Information								
› Pipe Jacking	x		x		x		x	
› Drive length (recommended)	1,100 m		1,100 m		1,100 m		1,100 m	
› Access to cutting wheel	x		x		x		x	
› Waterproofness	3 bar		3 bar		3 bar		3 bar	
› Airlock	opt.		opt.		opt.		opt.	
› Telescopic and interjacking station	opt.		opt.		opt.		opt.	
› Slurry line diam.	200 mm		200 mm		200 mm		200 mm	
› High pressure water system	x		–		–		–	
› Medium pressure jet system	x		x		x		x	

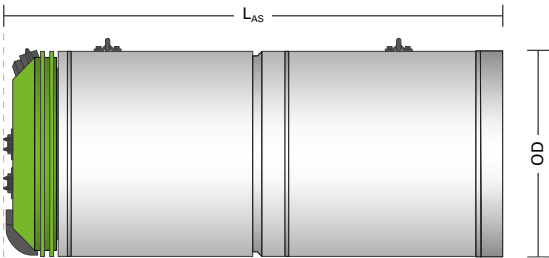
* Std = standard; Ext = extension kit

**PIONEERING
UNDERGROUND
TECHNOLOGIES**



Machine dimensions

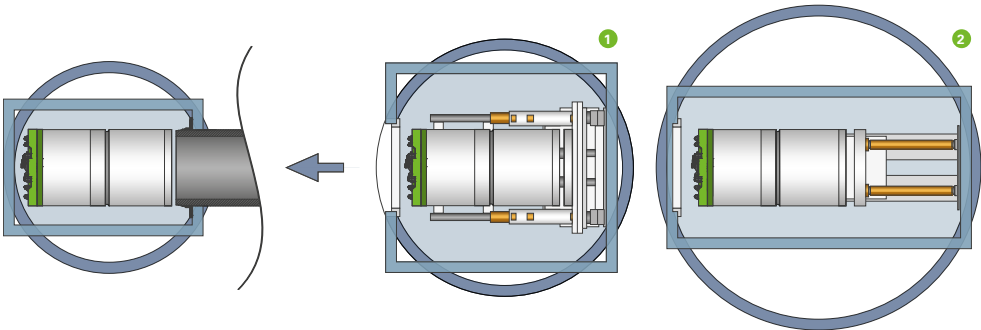
TECHNICAL DATA	AVND2400AB	AVND2500AB	AVND2600AB	AVND3000AB
› Outer diameter (OD)	3,025 mm	3,025 mm	3,125 mm	3,625 mm
› Length artic. shield (L _{AS})	6,400–6,900 mm	6,400–6,900 mm	6,400–6,900 mm	6,400–6,900 mm
› Max. single weight	50,000–62,000 kg	50,000–60,000 kg	52,000–62,000 kg	65,000–77,000 kg



Shaft dimensions

TECHNICAL DATA		AVND2400AB	AVND2500AB	AVND2600AB	AVND3000AB
Launch Shaft	Pipe length	Shaft size	Shaft size	Shaft size	Shaft size
› Compact jacking rig	3,000 mm	–	–	–	–
Launch Shaft	3,000 mm	Ø = 11.5 m	Ø = 11.5 m	Ø = 12.0 m	Ø = 12.0 m
› Main jacking station		11.0 m × 5.0 m	11.0 m × 5.0 m	11.5 m × 5.5 m	11.5 m × 6.0 m
Reception Shaft (L _{AS})		6,600 mm	6,600 mm	6,900 mm	6,900 mm
› Circular		Ø = 8.0 m	Ø = 8.0 m	Ø = 8.5 m	Ø = 8.5 m
› Rectangular		7.5 m × 4.0 m	7.5 m × 4.0 m	8.0 m × 4.5 m	8.0 m × 5.0 m

All dimensions according to 15m shaft depth.



- 1 Compact jacking rig:
 - › Smaller launch shaft needed
- 2 Main jacking station:
 - › Continuous push with telescopic cylinders (time advantage)
 - › Higher thrust capacity possible by adding of main jacks

Machine type description e.g. **AVN¹⁾ 2400²⁾ A³⁾ B⁴⁾**

- 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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