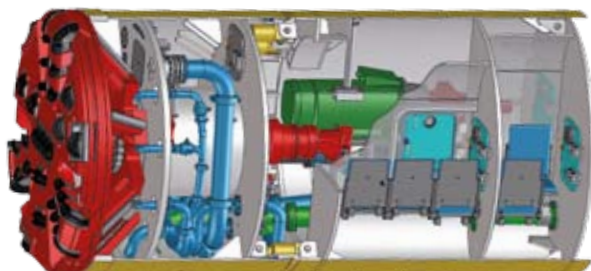


AVND2400AB – AVND3000AB PIPE JACKING



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 to U.N.S. Guidance System.

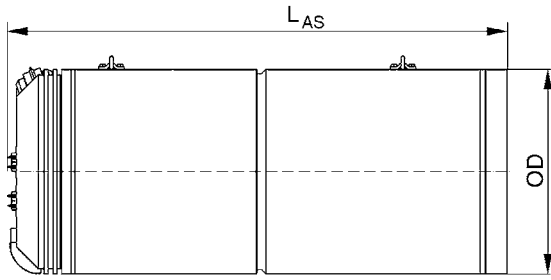
TECHNICAL DATA		AVND2400AB		AVND2500AB		AVND2600AB		AVND3000AB	
		Std	Ext	Std	Ext	Std	Ext	Std	Ext
1. Articulated Shield									
Outer diameter	mm	3,025	3,625	3,025	3,625	3,125	3,625	3,625	4,225
Pipe OD	mm	3,000	3,600	3,000	3,600	3,100	3,600	3,600	4,200
Pipe ID	mm	2,400	3,000	2,500	3,000	2,600	3,000	3,000	3,600
Main drive									
Max. torque	kNm	1,200		1,200		1,200		1,600	
Revolution	LH/RH rpm	0-6.8		0-6.8		0-6.8		0-6.1	
Rated Power	kW	315		315		315		400	
Roll correction		✓		✓		✓		✓	
Steering									
Steering cylinders		8		8		8		8	
Force per cyl./oil pressure	kN/bar	770/500		770/500		770/500		1,005/500	
Stroke per cyl.	mm	150		150		150		150	
Control									
Computer data logging system		✓		✓		✓		✓	
Fuzzy control (automatic steering)		opt.		opt.		opt.		opt.	
Fully visualized process control		✓		✓		✓		✓	
Active roll protection (el.-hydr.)		✓		✓		✓		✓	
Suitability U.N.S.:	ELS	✓		✓		✓		✓	
	ELS-HWL	✓		✓		✓		✓	
	GNS	✓		✓		✓		✓	
2. Machine Can									
Lubrication System		✓		✓		✓		✓	
3. General Information									
Pipe jacking		✓		✓		✓		✓	
Drive length (recommended)	m	1,100		1,100		1,100		1,100	
Access to cutting wheel		✓		✓		✓		✓	
Waterproofness	bar	3		3		3		3	
Airlock		opt.		opt.		opt.		opt.	
Telescopic and interjacking station		opt.		opt.		opt.		opt.	
Slurry line diam.	mm	200		200		200		200	
Medium pressure jet system		✓		✓		✓		✓	

All measures and data represent the main feasibility of the machines. Individual solutions are possible. Errors excepted.

*Std = standard; Ext = extension kit

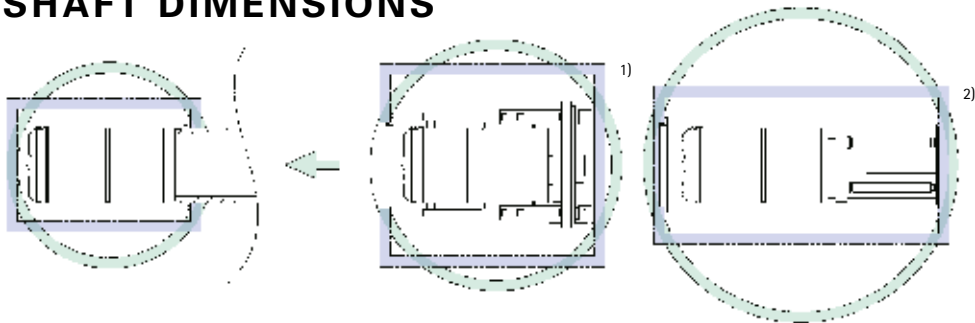


MACHINE DIMENSIONS



			AVND2400AB	AVND2500AB	AVND2600AB	AVND3000AB
Outer Diameter	OD	mm	3,025	3,025	3,125	3,625
Length artic. shield	L _{AS}	mm	6,600	6,600	6,900	6,900
Max. single weight	W	kg	66,000	66,000	72,000	86,000

SHAFT DIMENSIONS



- 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

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

All dimensions according to 15m shaft depth.

Machine type description e.g. AVN ¹⁾ 1800 ²⁾ T ³⁾ B ⁴⁾			
¹⁾ Machine type	²⁾ ID of jacking pipe	³⁾ Access to cutting wheel	⁴⁾ Type of container, power transfer from container to machine
		X = no access T = central door A = door above main drive or in top of pressure wall	B = electric cable to 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 (> 1000V)

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