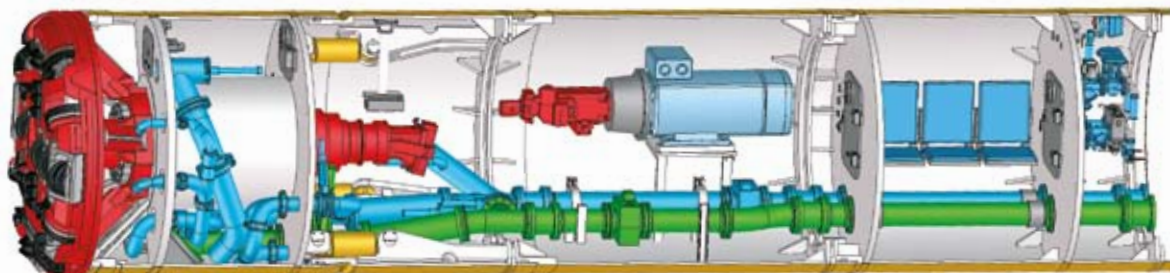


AVND1600AB – AVND2200AB PIPE JACKING



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 in machine can.
- Completely remote-controlled.
- All machines compatible to U.N.S. Guidance System.

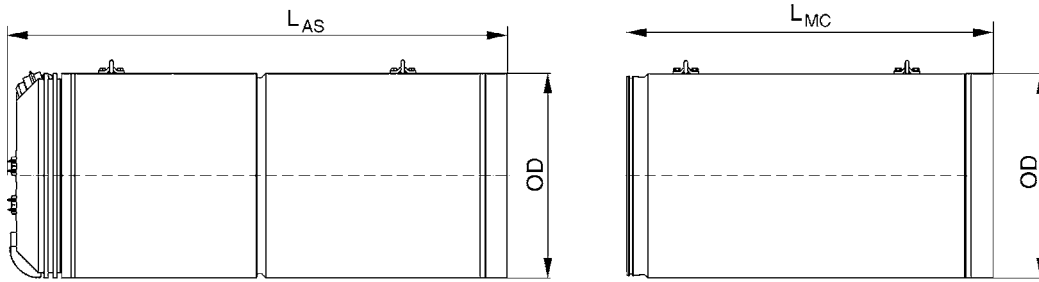
TECHNICAL DATA		AVND1600AB		AVND1800AB		AVND2000AB		AVND2200AB	
		Std*	Ext*	Std	Ext	Std	Ext	Std	Ext
1. Articulated Shield									
Outer diameter	mm	1,970	2,150	2,150	2,425	2,425	3,025	2,725	3,025
Pipe OD	mm	1,940	2,120	2,120	2,400	2,400	3,000	2,700	3,000
Pipe ID	mm	1,600	1,800	1,800	2,000	2,000	2,400	2,200	2,200
Main drive									
Max. torque	kNm	360		520		780		780	
Revolution	LH/RH rpm	0-4.6		0-4.6		0-8.4		0-8.4	
Rated Power	kW	110		160		315		315	
Roll correction		✓		✓		✓		✓	
Steering									
Steering cylinders		4		4		4		4	
Force per cyl./oil pressure	kN/bar	1,005/500		1,005/500		1,272/500		1,272/500	
Stroke per cyl.	mm	100		100		100		100	
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	700		900		1,100		1,100	
Access to cutting wheel		✓		✓		✓		✓	
Waterproofness	bar	3		3		3		3	
Airlock		✓		✓		✓		✓	
Telescopic and interjacking station		opt.		opt.		opt.		opt.	
Slurry line diam.	mm	150		150		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

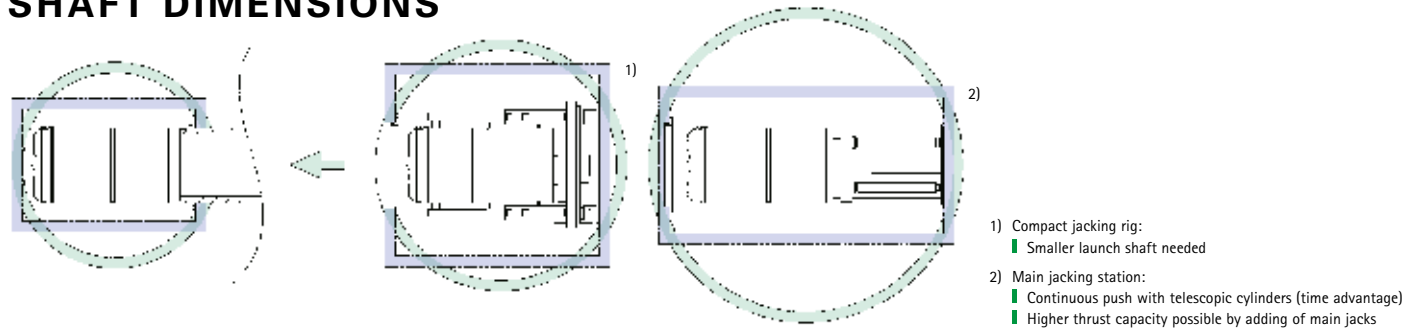


MACHINE DIMENSIONS



			AVND1600AB	AVND1800AB	AVND2000AB	AVND2200AB
Outer Diameter	OD	mm	1,970	2,150	2,425	2,725
Length artic. shield	L _{AS}	mm	4,200	4,400	4,700	4,800
Length machine can	L _{MC}	mm	3,200	3,200	3,200	3,200
Max. single weight	W	kg	24,000	27,000	38,000	42,000

SHAFT DIMENSIONS



		AVND1600AB	AVND1800AB	AVND2000AB	AVND2200AB
Launch Shaft	Pipe				
	Compact jacking rig	Shaft size	Shaft size	Shaft size	Shaft size
	3,000mm	Ø = 7.0m 6.5m x 4.5m	Ø = 7.5m 7.0m x 4.5m	Ø = 7.5m 7.0m x 5.0m	- -
Launch Shaft	3,000mm	Ø = 9.0m	Ø = 9.5m	Ø = 9.5m	Ø = 10.0m
Main jacking station		8.5m x 4.0m	9.0m x 4.0m	9.5m x 4.5m	9.5m x 5.0m
Reception Shaft	L _{AS}	4,200mm	4,400mm	4,700mm	4,800mm
	Circular	Ø = 5.5m	Ø = 5.5m	Ø = 6.0m	Ø = 6.5m
	Rectangular	5.0m x 3.0m	5.0m x 3.0m	5.5m x 3.5m	5.5m x 4.0m

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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