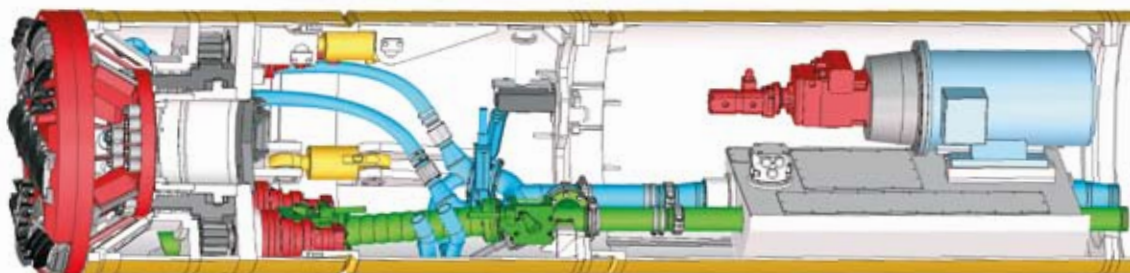


AVN1200TB – AVN1800TB PIPE JACKING



SPECIAL FEATURES

- Designed for soft ground, mixed ground and especially hard rock conditions by use of different cutting wheels (full face excavation).
- Central 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 peripheral drive.
- Hydraulic power pack in machine can.
- Completely remote-controlled.
- All machines compatible to U.N.S. Guidance System.

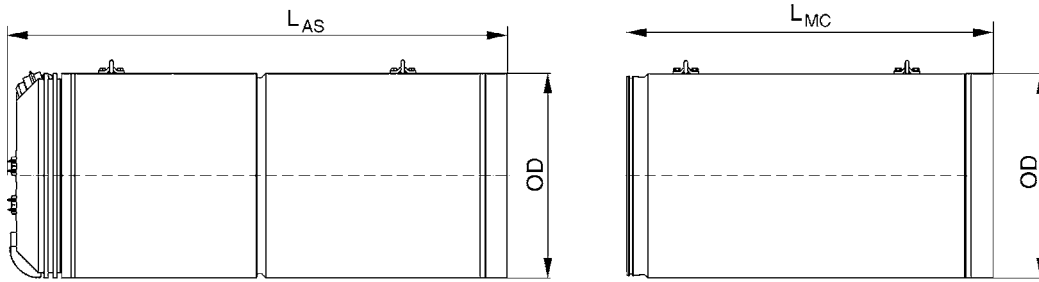
TECHNICAL DATA			AVN1200TB		AVN1400TB		AVN1500TB		AVN1600TB		AVN1600TE		AVN1800TB	
			Std*	Ext*	Std	Ext	Std	Ext	Std	Ext	Std	Ext	Std	Ext
1. Articulated Shield														
Outer diameter	mm	1,505	1,810	1,740	1,970	1,810	2,150	1,970	2,150	1,970	2,150	2,150	2,425	
Pipe OD	mm	1,490	1,780	1,720	1,940	1,780	2,120	1,940	2,120	1,940	2,120	2,120	2,400	
Pipe ID	mm	1,200	1,500	1,400	1,600	1,500	1,800	1,600	1,800	1,600	1,800	1,800	2,000	
Main drive														
Max. torque	kNm	258		258		474		474		431		554		
Revolution	LH/RH rpm	0-6.7		0-6.7		0-7.7		0-7.7		0-10.4		0-11.9		
Rated Power	kW	132		132		160		160		220		250		
Roll correction		✓		✓		✓		✓		✓		✓		
Steering														
Steering cylinders		3		3		4		4		4		4		
Force per cyl./oil pressure	kN/bar	752/500		752/500		1,005/500		1,005/500		1,005/500		1,272/500		
Stroke per cyl.	mm	60		60		60		60		60		100		
Control														
Computer data logging system		✓		✓		✓		✓		✓		✓		
Fuzzy control (automatic steering)		opt.		opt.		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	500		500		700		900		900		900		
Access to cutting wheel		✓		✓		✓		✓		✓		✓		
Waterproofness	bar	3		3		3		3		3		3		
Airlock		-		-		opt.		opt.		opt.		opt.		
Telescopic and interjacking station		opt.		opt.		opt.		opt.		opt.		opt.		
Slurry line diam.	mm	125		125		125		150		150		150		
High pressure water system		✓		-		-		-		-		-		
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

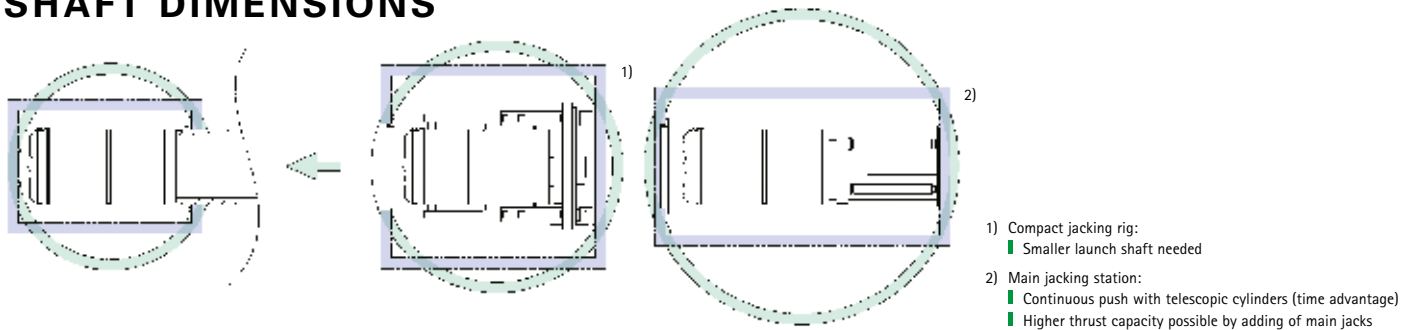


MACHINE DIMENSIONS



			AVN1200TB	AVN1400TB	AVN1500TB	AVN1600TB	AVN1600TE	AVN1800TB
Outer Diameter	OD	mm	1,505	1,740	1,810	1,970	1,970	2,150
Length artic. shield	L _{AS}	mm	3,750	3,750	3,800	3,900	4,200	4,200
Length machine can	L _{MC}	mm	3,200	3,200	3,200	3,200	3,200	3,200
Max. single weight	W	kg	13,000	17,000	22,000	24,000	25,000	29,000

SHAFT DIMENSIONS



		AVN1200TB	AVN1400TB	AVN1500TB	AVN1600TB	AVN1600TE	AVN1800TB	
Launch Shaft Compact jacking rig	Pipe length	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	
	2,500mm	Ø = 4.87m 5.0m x 4.5m	Ø = 5.27m 5.0m x 4.5m	Ø = 5.27m 5.0m x 4.5m	Ø = 6.5m 5.5m x 4.5m	Ø = 6.5m 5.5m x 4.5m	Ø = 6.5m 5.5m x 4.5m	
	3,000mm	Ø = 4.87m 5.0m x 4.5m	Ø = 6.5m 5.5m x 4.5m	Ø = 6.5m 5.5m x 4.5m	Ø = 6.5m 5.5m x 4.5m	Ø = 6.5m 5.5m x 4.5m	Ø = 6.5m 5.5m x 4.5m	
Launch Shaft Main jacking station	2,500mm	Ø = 8.5m 8.0m x 3.5 m	Ø = 8.5m 8.0m x 3.5m	Ø = 8.5m 8.0m x 3.5m	Ø = 8.5m 8.0m x 4.0m	Ø = 9.0m 8.5m x 4.0m	Ø = 9.0m 8.5m x 4.0m	
	3,000mm	Ø = 8.5m 8.0m x 3.5m	Ø = 8.5m 8.0m x 3.5m	Ø = 8.5m 8.0m x 3.5m	Ø = 8.5m 8.0m x 4.0m	Ø = 9.0m 8.5m x 4.0m	Ø = 9.0m 8.5m x 4.0m	
		8.0m x 3.5m	8.0m x 3.5m	8.0m x 3.5m	8.0m x 4.0m	8.5m x 4.0m	8.5m x 4.0m	
Reception Shaft	L _{AS}	3,750mm	3,750mm	3,800mm	3,900mm	4,200mm	4,200mm	
		Circular	Ø = 4.5m	Ø = 4.5m	Ø = 5.0m	Ø = 5.0m	Ø = 5.5m	Ø = 5.5m
		Rectangular	4.5m x 2.5m	4.5m x 2.5m	4.5m x 2.5m	5.0m x 3.0m	5.0m x 3.0m	5.0m x 3.0m

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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