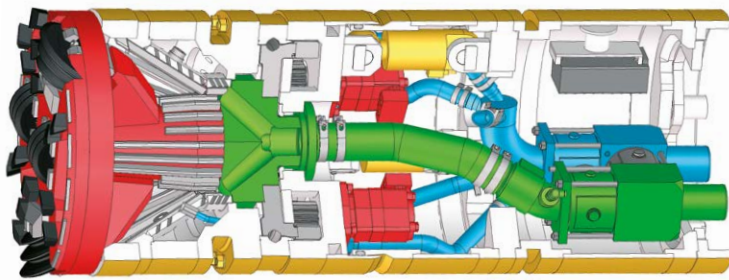


AVN250XC – AVN700XC

PIPE JACKING



Special Features

- › All machines for non-accessible sections
- › Designed for soft ground, mixed ground and hard rock conditions by use of different cutting wheels (full face excavation)
- › Highly reliable steering operation due to inductive measuring system
- › Different (variable) flushing modes/jet systems to suit different ground conditions
- › High 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 control container
- › Completely remote-controlled
- › All machines compatible with TUnIS MT Navigation System

TECHNICAL DATA	AVN250XC		AVN300XC		AVN400XC		AVN500XC		AVN600XC		AVN700XC	
	Std*	Ext*	Std	Ext	Std	Ext	Std	Ext	Std	Ext	Std	Ext
1. Articulated Shield												
› Outer diameter (mm)	368	410	410	565	565	665	665	780	780	875	875	975
› Pipe OD (mm)	360	400	400	550	550	650	650	760	760	860	860	960
› Pipe ID (mm)	250	300	300	400	400	500	500	600	600	700	700	800
Main Drive												
› Max. torque	5.9kNm		9.4kNm		13.4kNm		22.2kNm		33.5kNm		40.1kNm	
› Revolution (LH/RH)	0–44rpm		0–27rpm		0–19rpm		0–15rpm		0–13rpm		0–11rpm	
› Rated power	45kW		45kW		45kW		45kW		45kW		55kW	
› Roll correction	x		x		x		x		x		x	
Steering												
› Steering cylinders	3		3		3		3		3		3	
› Force per cyl./oil pressure	99kN/420bar		99kN/420bar		211kN/420bar		267kN/420bar		267kN/420bar		329kN/420bar	
› Stroke per cylinder	10mm		10mm		15mm		25mm		25mm		30mm	
Control												
› Computer data logging system	x		x		x		x		x		x	
› Fuzzy control (automatic steering)	opt.		opt.		opt.		opt.		opt.		opt.	
› Fully visualized process control	x		x		x		x		x		x	
› Active roll protection (el.-hydr.)	x		x		x		x		x		x	
› Suitability TUnIS MT Navigation System:												
› Laser	x		x		x		x		x		x	
› HydroLevel	–		–		x		x		x		x	
› Gyro	–		–		–		–		–		–	
› LaserTotalstation	–		–		–		–		–		–	
2. Machine Can												
› Lubrication system	x		x		x		x		x		x	
3. General Information												
› Pipe Jacking	x		x		x		x		x		x	
› Drive length (recommended)	80m		100m		100m		120m		140m		140m	
› Waterproofness	3bar		3bar		3bar		3bar		3bar		3bar	
› Telescopic and interjacking station	–		–		–		–		opt.		opt.	
› Slurry line diam.	55mm		80mm		80mm		100mm		100mm		100mm	
› High pressure water system	x		x		x		x		–		–	

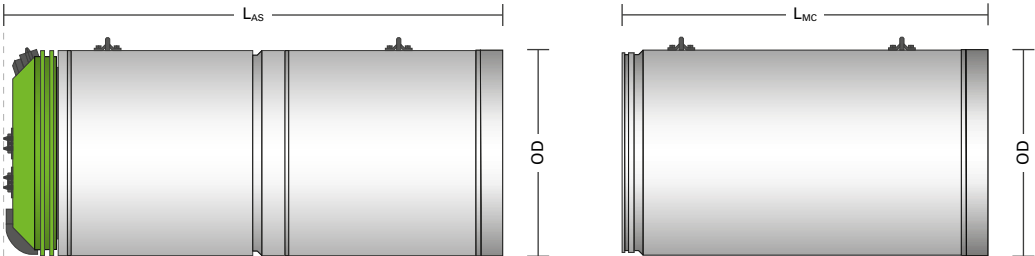
* Std = standard; Ext = extension kit

**PIONEERING
UNDERGROUND
TECHNOLOGIES**



Machine dimensions

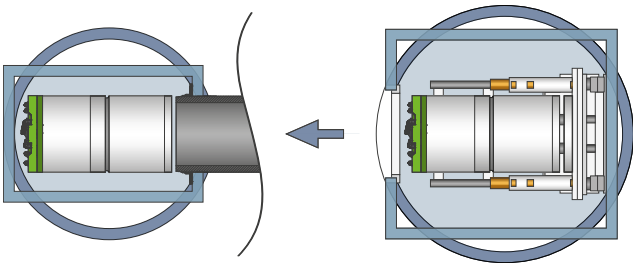
TECHNICAL DATA	AVN250XC	AVN300XC	AVN400XC	AVN500XC	AVN600XC	AVN700XC
› Outer diameter (OD)	368 mm	410 mm	565 mm	665 mm	780 mm	875 mm
› Length artic. shield (L _{AS})	1,400 mm	1,450 mm	1,450 mm	2,150 mm	2,100 mm	2,150 mm
› Length machine can (L _{MC})	1,200 mm	1,200 mm	1,200 mm	2,000 mm	2,000 mm	2,000 mm
› Max. single weight	850 kg	950 kg	1,100 kg	3,000 kg	3,800 kg	4,400 kg



Shaft dimensions

TECHNICAL DATA		AVN250XC	AVN300XC	AVN400XC	AVN500XC	AVN600XC	AVN700XC
Launch Shaft	Pipe length	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size	Shaft size
› Compact jacking rig							
	1,000 mm	Ø = 2.0 m	Ø = 2.0 m	Ø = 2.5 m	Ø = 3.0 m	Ø = 3.0 m	Ø = 3.0 m
	2,000 mm	Ø = 3.0 m	Ø = 3.0 m	Ø = 3.0 m	Ø = 3.0 m	Ø = 3.0 m	Ø = 3.2 m
Reception Shaft (L _{AS})							
› Circular		Ø = 2.4 m	Ø = 2.3 m	Ø = 2.2 m	Ø = 2.4 m	Ø = 2.4 m	Ø = 2.5 m
› Rectangular		2.3 m × 1.0 m	2.0 m × 1.0 m	2.1 m × 1.0 m	2.3 m × 1.2 m	2.3 m × 1.4 m	2.3 m × 1.5 m

All dimensions according to 10m shaft depth.



Compact jacking rig:
› Smaller launch shaft needed

Machine type description e.g. **AVN¹⁾ 250²⁾ X³⁾ C⁴⁾**

- 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)

All rights reserved. Any information contained herein is for informational purposes only.
Subject to change without notice. We are not responsible for typographical errors.
All dimensions and data refer to customizable basic product features.

HERRENKNECHT AG
77963 Schwanau
Germany
Phone +49 7824 302-0
Fax +49 7824 302-3640
utility@herrenknecht.com
www.herrenknecht.com

