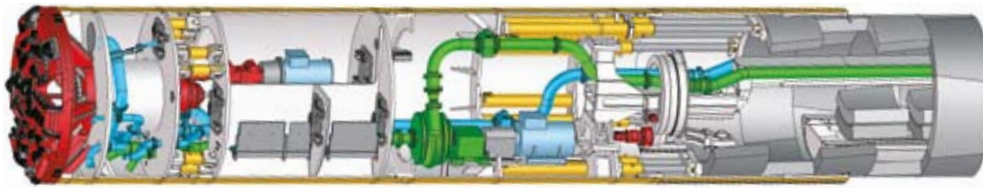


# AVND2300AH – AVND4000AH SEGMENT LINING



## 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.
- Medium-voltage power supply line to machine power pack.
- All machines compatible to U.N.S. Guidance System.
- Shaft dimensions according to specific project.
- Suitable to Combisegments™.

TECHNICAL DATA		AVND2300AH	AVND2600AH	AVND2900AH	AVND3200AH	AVND3600AH	AVND4000AH
<b>1. Articulated Shield</b>							
Outer diameter	mm	2,910	3,225	3,625	3,925	4,220	4,660
Segment OD	mm	2,700	3,000	3,400	3,700	4,000	4,500
Segment ID	mm	2,300	2,600	2,900	3,200	3,500	4,000
Segment length	mm	950	1,000	1,000	1,200	1,200	1,300
<b>Main drive</b>							
Max. torque	kNm	1,020	1,200	1,600	1,600	1,600	2,300
Revolution	LH/RH rpm	0-8.4	0-6.8	0-6	0-6	0-6	0-4
Rated Power	kW	250-315	315-400	315-400	400	400-630	630-800
Roll correction		✓	✓	✓	✓	✓	✓
<b>Steering</b>							
Steering cylinders		8	8	8	8	8	8
Force per cyl./oil pressure	kN/bar	690/450	690/450	900/450	1,140/450	1,140/450	2,040/400
Stroke per cyl.	mm	100	150	150	150	150	200
<b>Control</b>							
Computer data logging system		✓	✓	✓	✓	✓	✓
Fully visualized process control		✓	✓	✓	✓	✓	✓
Active roll protection (el.-hydr.)		✓	✓	✓	✓	✓	✓
Suitability U.N.S.:	ELS	✓	✓	✓	✓	✓	✓
	ELS-HWL	✓	✓	✓	✓	✓	✓
	GNS	✓	✓	✓	✓	✓	✓
<b>2. Push Module</b>							
Wire brush seal with automatic lubrication		✓	✓	✓	✓	✓	✓
Propulsion cylinders		12	12	12	12	16	16
Stroke	mm	1,700	1,700	1,700	1,900	1,900	2,100
Total force	kN/400bar	9,650	12,200	12,200	13,600	16,250	22,150
<b>3. General Information</b>							
Drive length (recommended)	m	2,000	2,000	2,000	2,000	3,500	3,500
Access to cutting wheel		✓	✓	✓	✓	✓	✓
Waterproofness	bar	3.5	3.5	3.5	3.5	3.5	3
Airlock		✓	✓	✓	✓	✓	✓
Slurry line diam.	mm	200	250	250	250	250	300
Medium pressure water system		✓	✓	✓	✓	✓	✓
Low pressure jet system		opt.	opt.	opt.	opt.	opt.	opt.

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

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**Drilling for progress.** Herrenknecht AG is a technology and market leader in mechanized tunnelling. Herrenknecht is the only company in the world to supply high-tech tunnelling machinery for all ground conditions and in all diameters.

