

DRILL RODS & CASINGS

WIRELINE	BWL (1,5 or 3 m)
	NWL (1,5 or 3 m)
	HWL (1,5 or 3 m)
	PWL (1,5 or 3 m)
	NWL V-WALL (1,5 or 3 m)
	NRQ V-WALL (1,5 or 3 m)
	NRQ (1,5 or 3 m)
	HRQ (1,5 or 3 m)
	HWT (1,5 or 3 m)
	PHD (1,5 or 3 m)
	S GEOBOR (1,5 or 3 m)
CONVENTIONAL	AWJ (1,5 or 3 m)
	BWJ (1,5 or 3 m)
	NWJ (1,5 or 3 m)
	AW (1,5 or 3 m)
	BW (1,5 or 3 m)
	NW (1,5 or 3 m)
RC METZKE	3 1/2" (3 m)
	4" (3 or 6 m)
CASING	AW (1,5 or 3 m)
	BW (1,5 or 3 m)
	NW (1,5 or 3 m)
	HW (1,5 or 3 m)
	PW (1,5 or 3 m)



MANNESMANN
PRECISION TUBES

A Member of the Salzgitter Group



Drilmax® steel tubes are cold drawn, heat-treated and straightened with the highest expertise to offer the best benefits to exploration drilling equipment manufacturers

**High resistance to hardest drilling conditions:
maximum depth, directional drilling, hard grounds**

Drilmax® steel tubes offer very high mechanical properties such as yield strength ($R_{p0.2}$) up to 950 MPa, and tensile strength (R_m) up to 1000 MPa.

100 % Drilmax® steel tubes undergo specific non-destructive testing to guarantee the best surface quality and integrity.

Best behaviour in rotation

Drilmax® steel tubes offer superior straightness levels, with special attention to tube ends and a max. deviation up to 1 mm per 6 m.

Drilmax® steel tubes provide the tightest dimensional tolerances.

	Mechanical Properties		
	Yield Strength	Tensile Strength	Elongation
	$R_{p0.2}$ (MPa) min	R_m (MPa) min	A_2 " min (%)
Drilmax® 550	550	690	18
Drilmax® 650	650	790	15
Drilmax® 700	700	800	15
Drilmax® 730	730	820	15
Drilmax® 850	850	950	15
Drilmax® 950	950	1000	12



HEAT-TREATED DRILL RODS



Induction heat treatment uses high-frequency electromagnetic fields to rapidly heat the ends of drill rods. The surface is then cooled quickly, creating a hardened outer layer while keeping the core tough and ductile.

It significantly **increases the surface hardness and wear resistance** while preserving the toughness of the rod's core. This process is crucial because the threads endure constant mechanical stress, impact, and friction during drilling operations. By hardening the surface, heat treatment helps prevent thread deformation, **ensuring secure and long-lasting connections between rods**. As a result, **it extends the service life of the equipment**, reduces the risk of failure, **minimizes downtime**, and improves overall drilling efficiency and cost-effectiveness.

HEAT-TREATMENT TESTING LAB

BARKOM tests the quality and resistance of their heat-treated drilling rod threads in its own **Heat-Treatment Testing Laboratory**.

