

# TECHNICAL DATA

Bore rig X and S series	GRUNDODRILL 4 X + Twin Drive	GRUNDODRILL 7 Xplus + Twin Drive	GRUNDODRILL 10 X + Twin Drive	GRUNDODRILL 13 X + Twin Drive	GRUNDODRILL 10 S TD + Twin Drive	GRUNDODRILL 15 S TD + Twin Drive	GRUNDODRILL 20 S TD + Twin Drive
Length (mm)	3330 / 3965 <sup>4)</sup>	5610-5740 / 5870-6000 <sup>3)</sup>	6350	6160	5430 - 5850	6070	6380
Width min./max (mm)	1200	1600	1610	1680	1650	2020	2445
Height dep. on inclination (mm)	1965	2150	2200	2200	2300	2220	2900
Weight incl. drill rods (kg)	1845	5600	7000	7200	7300	9980	14700
Content rod magazine (m)	45	126	144	144	132	216	180
Inclination angle	15°	0-18°	0-18°	0-18°	0 - 18°	0 - 31°	0-15°
Pullback (kN)	38	100	100	100	100	160	200
Thrust (kN)	38	100	100	125	100	160	200
No. of strokes per min <sup>-1</sup>	-	1000	1000	1000	1000	1000	1000
Max. torque (Nm)	1300	1700	3000	4200	3000	4300 (6500)	10000
Max. spindle speed (rpm)	230	200	170	145	210	235	130
Ø pilo bore (mm)	58	65 resp. 80	80	80	80	80	min.100
Ø drill rods (mm)	42 <b>Twin Drive</b>	48 <b>Twin Drive</b>	54 <b>Twin Drive</b>	54 <b>Twin Drive</b>	54 <b>Twin Drive</b>	60 <b>Twin Drive</b>	82,5 <b>Twin Drive</b>
Effective rod length (mm)	1500	3000	3000	3000	3000	3000	3000
Thrust speed (m/sek)	0,8	0,6	0,8	0,6	0,9	0,9	0,3
Upsizing Ø <sup>1)</sup> (mm)	≤ 235	≤ 300	≤ 450	≤ 500	≤ 450	≤ 600	≤ 750
Pipe OD <sup>1)</sup> (mm)	≤ 160	≤ 250	≤ 355	≤ 400	≤ 355	≤ 500	≤ 600
Bore length <sup>1)</sup> (m)	≤ 100	≤ 200	≤ 250	≤ 300	≤ 250	≤ 400	≤ 500
Max. detection depth <sup>2)</sup> (m)	16	16	16	16	16	16	16
Min. bend radius (m)	26	33	42	42	42	60	75
Colour (Standard)	blue RAL 5015	blue RAL 5015	blue RAL 5015	blue RAL 5015	blue RAL 5015	blue RAL 5015	blue RAL 5015
Max. driving speed (km/h)	1,6	2,5	3,0	3,0	3,7	3	4
Fresh water tank (l)	-	-	-	-	200	200	200
Noise pressure level (L <sub>PA</sub> )	82,5	80	80	80	70,8	78,3	81
Noise power level (L <sub>WA</sub> )	103	99	99	99	103	106	106
Cabin	-	-	-	-	yes	yes	yes
Heating / Air condition	-	-	-	-	Heating	Heating / AC	Heating / AC
Bentonitepump on board	no	yes	no	no	yes	yes	yes
<b>integrated drive for boring and driving mode</b>							
Max. engine output (kW)	28,5	55	55	55	80,5	106	129
Max. hydraulic pressure (bar)	275	265	300	300	340	340	300
Oil capacity (l)	85	220	220	220	160	160	150
Fuel tank (type / l)	Diesel / 44	Diesel / 100	Diesel / 130	Diesel / 130	Diesel / 100	Diesel / 140	Diesel / 140
Starter	12 V	24 V	12 V	12 V	24 V	24 V	24 V
<b>Mixing unit</b>	<b>MA 09-60</b>	<b>On-board mixing unit</b>	<b>MA 03</b>	<b>MA 03</b>	<b>MA 06</b>	<b>MA 06</b>	<b>MA 05</b>
L x W x H (mm)	1450 x 1380 x 1540/2055 <sup>5)</sup>	980 x 650 x 1300	2300 x 2350 x 2100	2300 x 2350 x 2100	3250 x 2050 x 1910	3250 x 2050 x 1910	3200 x 2350 x 2100
Weight empty/full (kg)	370 / 1670	108 / 218	1100 / 5300	1100 / 5300	1600 / 7800	1600 / 7800	1600 / 10400
Tank capacity (l)	1100	-	3800	3800	2 x 3000 (Option 2 x 4000)	2 x 3000 (Option 2 x 4000)	2 x 4000
Max. Bentonite pressure (bar)	50	60	80	80	100	80	100
max. Bentonite flow (l/min)	60	90	160	160	160	240	0-510
Fresh water tank (l)	200	-	2 x 200 l	2 x 200 l	-	-	(Option 1000 l)
<b>Mixing unit drive</b>	<b>10 kW Hydraulics TT-M9</b>	-	<b>51 kW Hydraulics TT-M2</b>	<b>51 kW Hydraulics TT-M2</b>	<b>17 kVA (generat. set) QAS 18</b>	<b>17 kVA (generat. set) QAS 18</b>	<b>35 kVA (generat. set) QAS 38</b>
Weight (kg)	420	-	1100	1250	793	793	1330
L x W x H (mm)	745 x 700 x 720	-	1700 x 760 x 2280	1700 x 760 x 2280	1860 x 811 x 950	1860 x 811 x 950	2400 x 1000 x 1330

1) = depending on soil 2) = dep. on system 3) = dimension with/without OBMU; OBMU = on board mixing unit 4) = Transport/working position 5) = height with/without fresh water tank 6) = with waisted/even rods

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