delkom A.Ş.
manufacturer of rock drill alternative spare parts

BOOMER S2
UNDERGROUND DRILL RIGS

TECHNICAL SPECIFICATION

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Technical specifications

□ = Standard □ = Option

Drilling system

COP MD20	□
COP 1638HD+	□
COP 1838HD+	□
COP 2238HD+*	□
Water mist flushing, external water, external or internal air supply*	□
Rock drill lubrication warning kit	□
Lubrication air filtration system	□
Hole blowing kit	□
Big hole drilling system	□

*May require a larger electrical motor

Boom

BUT 29 HD	□
BUT S	□
Automatic lubrication for positioning unit	□

Feed

BMH 2000-Series (max 4.9 m)	□
Telescopic feed BMHT 2000-series (max 4.3 m)	□
Extension drilling set BSH 110 or BSH XS	□
Bulkhead on feeds	□
Polyuretan centalizers	□
Mining HD centalizers	□

Air/Water system

Hydraulically driven compressor LE 10	□
Hydraulically driven screw compressor GAR 30*	□
Hydraulic water booster pump, max capacity at 15 bar boost 200 l/min. Minimum water inlet, 2 bar at 200 l/min	□
Water hose reel including water hose	□

*Requires 2x75 kW electrical motors

Hydraulic system

Low oil level indicator	□
Oil temperature gauge on oil tank, electronically supervised	□
Filtration 10 µm	□
Oil filter indicator	□
Extra filtration package for water- and fine particle removal	□
Mineral hydraulic oil	□
Biodegradable hydraulic oil	□
Electrical oil filling pump	□
External low placed hydraulic return filter	□
Air/oil cooler	□
Heater kit for hydraulic oil tank, diesel engine and electric motors	□
Ni-Cr plated piston rods (limitations exist)	□

Control system

Advanced Boom Control (ABC) Pure	□
Advanced Boom Control (ABC) Regular	□
Advanced Boom Control (ABC) Total	□
Measure While Drilling (MWD)	□
Underground Manager PRO (PC software)	□
Underground Manager MWD (PC software) for analysis of drill data	□
Bolt view	□
Two operator panels (for standing operation only)	□
Rig access control	□
Rig Remote Access (RRA), LAN or WLAN connection	□
Total station navigation	□
Dynamic Tunneling Package (DTP)	□

Electrical system

Total installed power 118 kW, main motors, Sf 1.15 2x55 kW***	□
Total installed power 158 kW, main motors, Sf 1.15 2x75 kW*	□
Voltage 380-1 000 V 50/60 Hz	□
Starting method, star/delta (400-690 V)**	□
Starting method, direct start (1 000 V)	□
Starting method soft start (not for 1 000 V)	□
Transformer 8 kVA	□
Electronic overload protection for electric motors	□
Digital voltmeter/amperage meter in electric cabinet	□
Percussion hour meter on operator display	□
Phase sequence and eart fault indicator	□
Cable reel, diameter 1395 mm	□
Electric outlet for accessories, 16 A (CE)/32 A (CE) (380-690 V)	□
Extra transformer 3-phase, 15 kVA (230/400 V outlet) (690-1 000V)	□
PC4 or PC5 Plug	□
PC4 or PC5 Connector	□
PC4 or PC5 Switch gear	□
Cable Buflex M	□
Battery charger	□
Dual controls for cable reel (and water reel)	□
Stainless steel electrical enclosure, corrosive env. pack	□

*Depending on selected options
**Soft start standard for UL/CSA
***Larger powerpack is needed on altitudes 2 500 m

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Carrier

Deutz TCD 3.6 Stage 3A/Tier 3, 90 kW	□
Deutz TCD 3.6 Stage 4/Tier 4F, 90 kW	□
Hydrostatic transmission	□
Articulated steering ±42° steering angle*	□
Four-wheel drive	□
Electric system 24 V	□
Batteries 2x70 Ah	□
Hose/cable guiding at water/cable reel	□
Automatic differential lock on axles, limited slip	□
Tires 12.00xR20	□
Clearance outside axles 15° rear, 23° front	□
Tramming lights 24 V DC LED	□
Working lights 24 V DC LED	□
Illuminated stairs LED	□
Fuel tank, volume 95 l	□
Central lubrication system	□
Automatic lubrication system	□
Fire suppression system ANSUL (manual, checkfire or automatic)	□
Fire suppression system FORREX (automatic)	□
Rig washing kit	□
Boot washing kit	□
Manual lubrication kit (cartridges only 400 g)	□

Cabin (optional)

FOPS/ROPS certified cabin	□
Mounting height +140 mm	□
Low profile cabin -150 mm	□
Air conditioning unit, cooling only	□
12 V outlet for communication radio	□
Reversing camera with monitor	□
Fixed seat	□
Front window, 22 mm	□
Electrical heater, 1.2 kW, 230 V (CE)	□
Heating function for air conditioning (water transferred)	□
Swingable seat for drilling and tramming	□
Joystick-controlled spotlights left and right, 70 W	□
Media player	□
Cabin body made of stainless steel	□

Protective roof

Mounting height +140 mm	□
Two operator panels (for standing operation only)	□
Manual spotlight, left and right	□
Swingable seat for drilling and tramming (one operator panel only)	□

Drifter rods

Rock drill	Rod	Min. hole diameter (mm)
COP MD20 COP 1638HD+ COP 1838HD+	T38-H35-SR35 Speedrod	43
	T38-H35-SR35	43
COP 2238HD+	T38-R39-SR35	43

Extension rods for injection drilling/RAS

Rock drill	Rod	Min. hole diameter (mm)
COP MD20 COP 1638HD+ COP 1838HD+ COP 2238HD+	R32 Speedrod	51
	T38 Speedrod	64

Shank adapters

Rock drill	Thread	Min. hole diameter (mm)
COP MD20 COP 1638HD+ COP 1838HD+ COP 2238HD+	T38	43
	R38	43
	R32E*	51
	T38E*	64

*Intended for RAS and extension drilling with BSH 110

Couplings

Rock drill	Rod	Diameter (mm)	Length (mm)
COP MD20 COP 1638HD+ COP 1838HD+	R38	55	170
COP 2238HD+	T38	55	170

Recommended cable size and length 55 kw

Voltage	Type	Dimension (mm²)	Diameter (mm)	Length (m)
380-400 V	Buflex	3x150+3G25+2x1.5	52	70
400-440 V	Buflex	3x120+3G25+2x1.5	46	110
450-550 V	Buflex	3x95+3G16+2x1.5	42	120
550-690 V	Buflex	3x70+3G16+2x1.5	37	130
1000 V	Buflex	3x50+3G10+2x1.5	33	200

Recommendations are given for surrounding temperature of 40 °C and up to a height of 2 000 m

Recommended cable size and length 75 kw

Voltage	Type	Dimension (mm²)	Diameter (mm)	Length (m)
380-400 V	Buflex	3x185+3G35+2x1.5	56	60
400-500 V	Buflex	3x150+3G25+2x1.5	52	70
500-550 V	Buflex	3x120+3G25+2x1.5	46	110
550-690 V	Buflex	3x95+3G16+2x1.5	42	120
1000 V	Buflex	3x50+3G10+2x1.5	33	200

Recommendations are given for surrounding temperature of 40° C and up to a height of 2 000 m

Noise and vibration

Operator sound pressure level in canopy, drilling, free field (ISO 11201)	104±6 dB(A) re 20 uPa
Operator sound pressure level in cabin, drilling, free field (ISO 11201)	75±3 dB(A) re 20 uPa
Operator sound pressure level working close to machine, drilling, free field	104±6 dB(A) re 20 uPa
Sound power level (ISO 3744), drilling, free field	128 dB(A) re 1p W*
Vibration levels seated, drilling (ISO 2631-1) Cabin	0.07±0.07 m/s^2
Vibration levels standing, drilling (ISO 2631-1) Cabin	0.07±0.07 m/s^2