

SBM 86R



SMAG-Large-Hole drilling rigs – advanced rock drilling technology for open-cast mining.

The SBM 86R is used in all geological formations requiring rotary or down-the-hole hammer drilling and is designed to meet the high demanding requirements when drilling precise and cost-efficient boreholes.

The machine is based on a quarry tested wheel chassis and 40t special axles. A four wheel road/off road driving system with large reserve capacities allows excellent mobility and manoeuvrability in difficult terrain. Power steering and a dual circuit brake system ensure a comfortable and secure driving experience.

To minimize non-productive times the SBM 86R features ergonomic control panels, high-performance drives, a parallel edge driving mechanism for a fast pick-up of the borehole position, an automated levelling of the supports for a precise adjustment of the drill boom and an automated drill rod handling system.

The high stability 4-point supports, a generously dimensioned drill boom, tolerance free boom adjustment, a drilling guidance with a displaceable suction hood and the infinite regulation of feed and rotation speeds provide exactly placed bore hole openings and precisely drilled bore holes.

The standard version of the SBM 86R comes with an air conditioned sound-proof driver's cab, a comfort health driver's seat, PLC-controlled automation implemented into logical arranged ergonomic control- and monitor elements and an EMERGENCY-STOP system.

The eco-friendly design of our machines features a robust sinter filter system for the drilling loaded conveying air, noise reduction thru consequent casing of machine parts and the possibility to use bio hydraulic oil

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Large-Hole Drilling Rig SBM 86R

Technical Data

Weight (standard design)	19.700 kg
Transport dimensions (L x W x H)	9.700 mm x 2.950 mm x approx. 3.800 mm
Wheel chassis	
Tyres	8-fold 10.00-20
Off-road speed	0 - 5,5 km/h
Road speed	0 - 16 km/h
Climbing ability	max. 30%
Supporting	
Levelling stroke:	900 mm
Drivea	
Diesel engine CAT	205 kW
Hydraulic pumps	Var. displ. Pumps (2 units)
	Gear pumps (2 units)
Screw compressor	
Flow rate	14 m ³ /min
Working pressure	14 bar
Drilling equipment	
Rotary drive	
- Torque	4.100 Nm
- Speed	0 - 112 min ⁻¹
Feed	
- Thrust/Retraction	80 kN
- Speed	0 - 35 m/min
- Working length	6.000 mm
Bore hole diameter	89 - 125 mm
Magazine capacity	6 + 1 Drill rod
Rod diameter	76; 82,5, 89; 102 mm
Bore hole inclination	60° - 90°
Drilling angle indicator	series
Drilling depth indicator	optional
Hammer drilling equip.	optional

Dust collector	
Type	HY-A 30 J
Sucked air rate	30 m ³ /min
Static vacuum	0,08 bar
Suction hood displacement	1.000 mmm
Cabin	
With vibration absorber and Noise insulation	standard
Comf. healthy driver's seat	standard
Heating	standard
Air condition	optional

