



# 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

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

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

