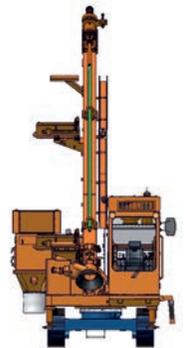
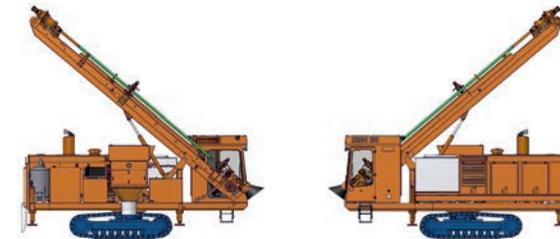


Blast hole drilling rigs - SBM series



NORDMEYER SMAG
Drilling Technologies





Nordmeyer SMAG SBM Series Blast Hole Drilling Rigs:

- modern,
- efficient,
- powerful,
- reliable.

SBM Drilling Rigs represent cost-effective drilling using both rotary drilling and DTH hammer drilling methods. They are perfectly suited to any geological conditions.

Modern technology and a proven mechanical concept cater for efficient drilling at low operating costs.

The robust construction of these machines and the use of high-quality components set new benchmarks in reliability and longevity. They guarantee excellent performance even in the most challenging conditions.

SBM machines are used worldwide in the most inhospitable environments – from minus 30 degrees in the ice fields of Siberia or the 50-degree heat of the Arabian desert. That is SBM – strong performance and reliability in any situation.

We only use the best quality components from renowned manufacturers when constructing our rigs.

We use as many standard and common parts as possible to ensure fast, low-cost availability of replacement parts and consumables.

The modular construction of the SBM rigs ensures easy access to components and engines: this reduces the time and costs for servicing and repair.

All of the SBM drilling rigs are subject to strict quality control during production.

The machines meet today's safety standards. The cabin fulfils FOPS Level 2 and provides the operator with a very clear view and enough space to work in comfort. All of the controls and instruments are ergonomically laid out in order to be easy to see and reach.

The drilling drive and feed systems work without the need for gearing, so wear-and-tear and breakdowns are minimised.

The sinter multi-disc filters installed in the suction unit can be regenerated and can last over 10 years when regularly serviced

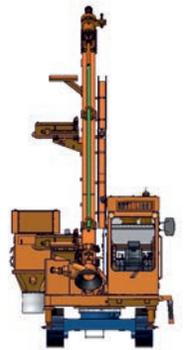
Nordmeyer has been developing and producing drilling rigs for well drilling, geothermal, exploration, construction ground and geotechnical purposes since 1935.

At the beginning of 2013, Nordmeyer became part of the SMAG Group and took responsibility for their SBM Series blast hole drilling rigs.

	SBM 6-8	SBM 6-10	SBM 6-15
Drilling applications	Rotary/DTH-Hammer	Rotary/DTH-Hammer	Rotary/DTH-Hammer
Drilling diameters	4 - 1/2" (114,3 mm)	6" (152,4 mm)	8" (203,2 mm)
Drilling depths	36 - 54 m	36 - 54 m	36 - 54 m



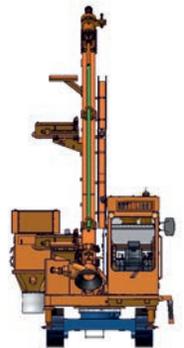
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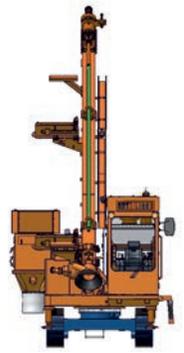
	SBM 6-8	SBM 6-10	SBM 6-15
Application	Blast hole drill	Blast hole drill	Blast hole drill
- Rotary drilling Ø approx.	4-1/2" (114,3 mm)	6" (152,4 mm)	8" (203,2 mm)
- Hammer drilling (DTH) Ø approx.	4-1/2" (114,3 mm)	6" (152,4 mm)	8" (203,2 mm)
Chassis Standard	Crawler	Crawler	Crawler
- Driving speed approx.	4,5 km/h	4,5 km/h	4,5 km/h
- Climbing ability approx.	30° (ca. 58%)	30° (ca. 58%)	30° (ca. 58%)
- Chain width approx.	600 mm	600 mm	600 mm
Rig support	4 cylinder (900 mm levelling stroke)	4 cylinder (900 mm levelling stroke)	4 cylinder (900 mm levelling stroke)
Drive engine Standard	Volvo	Volvo	Volvo
- Type	6-Cylinder Turbo-Diesel	6-Cylinder Turbo-Diesel	6-Cylinder Turbo-Diesel
- Power approx.	210 kW (286 PS)	315 kW (428 PS)	405 kW (551 PS)
- Capacity fuel tank approx.	1.500 l	1.500 l	1.500 l



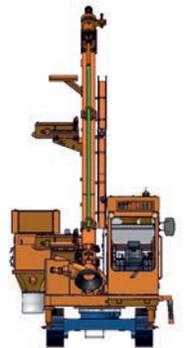
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	SBM 6-8	SBM 6-10	SBM 6-15
Drilling mast	Steel construction	Steel construction	Steel construction
- Length drill rods max.	6.000 mm	6.000 mm	6.000 mm
- Thrust max.	80 kN	100 kN	150 kN
- Retraction max.	80 kN	100 kN	150 kN
- Feed speed down max.	35 m/min (ca. 0,58 m/s)	35 m/min (ca. 0,58 m/s)	35 m/min (ca. 0,58 m/s)
- Feed speed up max.	35 m/min (ca. 0,58 m/s)	35 m/min (ca. 0,58 m/s)	35 m/min (ca. 0,58 m/s)
- Drilling angle adjustable	60° - 90°	60° - 90°	60° - 90°
Rotary drive	Gearless	Gearless	Gearless
- Torque max.	4.000 Nm	6.000 Nm	8.400 Nm
- Speed max.	112 1/ min	112 1/ min	112 1/ min
Drill rod magazine	Drill rod positioning automatic	Drill rod positioning automatic	Drill rod positioning automatic
- Type	Rotary magazine	Rotary magazine	Rotary magazine
- Capacity drill rods	6 (36 m) - 8 (48 m) depending from Ø	6 (36 m) - 8 (48 m) depending from Ø	6 (36 m) - 8 (48 m) depending from Ø



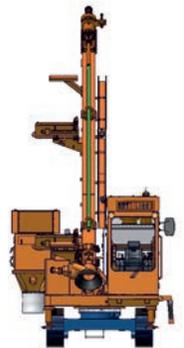
	SBM 6-8	SBM 6-10	SBM 6-15
Compressor Standard	Doosan	Doosan	Doosan
- Working pressure max.	13,8 bar	24 bar	24 bar
- Delivery rate max.	14,2 m ³ /min	21 m ³ /min	25 m ³ /min
- Special feature	Separable from drive engine	Separable from drive engine	Separable from drive engine
Dust collector Standard	Herding	Herding	Herding
- Sucked air rate max.	30 m ³ /min	30 m ³ /min	50 m ³ /min
- Filter	Sinter multi-disc filters (reclaimable)	Sinter multi-disc filters (reclaimable)	Sinter multi-disc filters (reclaimable)
- Additional equipment	Baffle plate, periodic filter cleaning	Baffle plate, periodic filter cleaning	Baffle plate, periodic filter cleaning
Electrical installations			
- On board power supply	24 V - DC	24 V - DC	24 V - DC
- Rig lighting	6x LED working lights IP 67	6x LED working lights IP 67	6x LED working lights IP 67
- Head / Rear light	LED 2x in front / 2x backwards IP 67	LED 2x in front / 2x backwards IP 67	LED 2x in front / 2x backwards IP 67
- Controlling	PLC	PLC	PLC



	SBM 6-8	SBM 6-10	SBM 6-15
Operators cabin Standard	<ul style="list-style-type: none"> • FOPS Level 2 incl. protective grating for front screen and side window with view to drill point. • Ergonomic comfort seat, rotatable, height-adjustable, spring-suspended. • Drilling mast inclination indicator. • Heating, air condition, cabin lightning. • CD-Radio incl. USB/SD-port, charging port for mobile phones. • Wipers (front screen, roof, side window view to drill point), sun shield front screen. • Display for rig control and monitoring, display rear view camera. 		
Safety Standard	<ul style="list-style-type: none"> • FOPS Level 2 incl. protective grating for front screen and side window with view to drill point. • Exclusion of malfunctions and operating errors in drill or drive mode. • Rear view camera incl. acoustic alert when reversing. • Emergency stops / panic pushbuttons. • Hand fire extinguisher operators cabin. 		



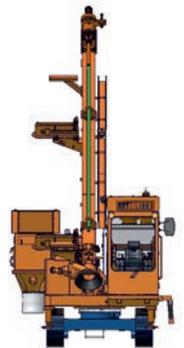
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	SBM 6-8		SBM 6-10		SBM 6-15	
Central lubrication	<ul style="list-style-type: none"> • Provides lubrication to the most important and difficult accessible joints and bearings like rotating assembly, break and holding tong, drill mast erecting cylinder, locking rotating assembly, bearing drill mast , reverse unit feed chain. 					
Furthermore	<ul style="list-style-type: none"> • CE-certificate, 1 set hand tools, central maintenance walk, 1 set manuals and spare part lists (2 pcs. each), colour RAL - Classic at customer´s choice. 					
Totally weight approx. ca.	23.000 kg		26.000 kg		32.000 kg	
Optional available:	<ul style="list-style-type: none"> • Auxiliary heating (diesel driven) for the cabin. • Drill data monitoring/recording system (torque, speed, thrust, depth, drilled meter). • Low-temperature package: additional electric heating in motor and compressor compartment, fuel and hydraulic oil tank. • Automatic fire extinguishing system for motor and compressor compartment. • Camera system expandable. • GPS - drilling data system. • Remote monitoring installation. • Suction hood with an opening/closing mechanism in case water is present when drilling. 					



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SBM 6-8

SBM 6-10

SBM 6-15

Special feature as option: All-wheel-chassis (max. speed 16 km/h) in case of long driving distances.



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