Technical data sheet 100043782 13.06.2012



Pictured machine may include options and additional equipment.

Features

Scamec 2000 S is a diesel driven unit designed for mechanised scaling in underground mines and tunnels where tramming height is 2.4 m or more. Scamec consist of NC200 carrier, NSB1000 boom, scaling tool and other scaler accessories.

The powerful liquid cooled turbo charged 120 kW or 155 kW Deutz or MB 170 kW TIER 3 approved engine provides clean and efficient operation. MB gives a maximum speed of 7 km/h in an upward inclined 1:7 tunnel. In a horizontal tunnel, the maximum speed is 17 km/h.

The FOPS and ROPS approved safety cabin provides superior visibility and comfortable compartment for the driver. The enclosed cabin provides noise level < 75 dB. All daily checks can be done from the ground level.

Technical specification

NORMET SUPER BOOM NSB1000	
Heavy duty telescopic scaling boom	
Max. vertical reach of hammer	8.4 m
Max. horizontal reach of hammer	11 m
Boom slew	+/- 40°
Hammer turn	+/- 45°
Hammer tilt	120°

SCALING TOOLS

Hydraulic hammer, Rammer BR555:

 Impact energy 	450 J
Impact rate	max.1500 bpm
Weight	315 kg
Push plate	

ENGINE

Liquid cooled turbo charged Deutz TCD 2013 L4, 120 kW/2300 rpm, TIER 3 approved

EXHAUST SYSTEM

Catalytic exhaust gas purifier and muffler

TRANSMISSION

Dana 24 000 series power shift with pump drive group 3 speeds forward and reverse 4-wheel drive

AXLES

Planetary type	
Dana 113	
Load end axle fixed	
Engine end axle oscillation	+/- 7°

TYRES

14.00 - 24 PR 28

PERFORMANCE

1st gear max.	6 km/h
2nd gear	12 km/h
3rd gear	25 km/h
Max. tractive effort	133 kN
Max speed in 1:7 inclined tunnel	9 km/h
Performance curve	100018584

STEERING

Hydraulic frame steering Orbitrol type Frame articulation +/- 40°

FUEL TANK

Capacity 140 L

BRAKES

Service brake: hydraulically powered dual-circuit oil immersed multidisc brakes in both axles

Safety/Parking brake: spring applied hydraulically released fail-safe -type brake. Brake testing possible from cabin

HYDRAULIC SYSTEM

Variable displacement pump system, 190 bar, 155 L/min/2200 rpm Hydraulic oil tank capacity 240 L Return oil filtration 10 µm Indication of level, filtration and temperature

24 VDC ELECTRICAL SYSTEM

Exposed components are min IP 65 standard Battery 2 x 115 Ah Alternator 100 A Driving halogen lights (2 + 2 pcs) 70 W Working halogen lights (6 pcs) 70 W LED parking, brake and indicator lights LED side lights; amber Side reversing halogen lights 70 W Rotating beacon; amber Wire harness (self extinguishing) with tinned wires and water tight conduits

DRIVER'S COMPARTMENT

Open one-man cabin FOPS/ROPS approved Cabin lift: + 600 mm Cabin tilt: 15° Suspended seat for driver Seat with retractable lap seat belt Driving controls and a set of pedals CANCockpit, Master Gauge: • Tacho, rpm

- Operating hours
- Fuel level
- Transmission temperatureCooling water temperature
- ecomig nator temperat

GREASING SYSTEM

Centralized grease fittings for the carrier Ramlube lubrication system for hammer

OTHER

12 kg hand held fire extinguisher Standard symbol labels Support legs: 4 pcs for scaling with hammer

Optional equipment

SCALING TOOLS

Atlas-Copco SB302

- Impact energy
- Impact rate
- Weight

450 J max. 1300 bpm 304 kg

Normet pick unit Rotating Normet pick unit Turnable push plate

DRIVER'S CABIN

Enclosed cabin, FOPS/ROPS approved

ENGINE

Liquid cooled turbo charged Deutz TCD 2012 L6, 155 kW/2300 rpm, TIER 3 approved with Dana 32 000 series power shift		
1st gear max.	5 km/h	
2nd gear	10 km/h	
3rd gear	18 km/h	
Max. tractive effort	164 kN	
Max speed in 1:7 inclined tunnel		
Fully loaded	8 km/h	
Empty	10 km/h	
Performance curve	DOC000805	
Liquid cooled turbo charged Mercedes	s-Benz OM 906	
LA, 170 kW/2200 rpm, TIER 3 approved with Dana 32		
000 series power shift		
1st gear max.	5 km/h	
2nd gear	10 km/h	
3rd gear	19 km/h	
Max. tractive effort	172 kN	
Max speed in 1:7 inclined tunnel:	7 km/h	
Performance curve	100003433	

EXHAUST SYSTEM

Particle filter for Mercedes-Benz OM 906 LA, 170 kW

OTHER

Xenon working lights on cabin (2 + 2 pcs) 35 W LED driving lights (4 + 2 pcs) 18 W LED working lights on cabin (2 + 2 pcs) 43 W Working lights 4 x 500 W (Only for electrically powered unit) Warning lights, 1 unit:

- Rotating beacon; red
- Rotating beacon; blue

Additional equipment

HIGH VOLTAGE ELECTRICAL SYSTEM

Electro-hydraulic 55 kW power pack for powering the scaling boom including: Hydraulically driven cable reel with 100 m cable

SCALING TOOLS

Normet pick unit Rotating Normet pick unit Hammer maintenance tools for:

Rammer BR555Atlas-Copco SB302

FOR SCALING PROCESS

Dust suppression system with manual water reelHose length30 mWater tank200 LHydraulically powered0,4 m³/min compressor forair flushing of hammer's toolEmergency escape system:Manually triggered, automated conversion from workmode to tramming mode with revved engine andselected reverse gear

FOR ENCLOSED CABIN

CD/Radio system Cabin ventilation:

- Cabin heating
- Air conditioning

FIRE SUPPRESSION SYSTEM

Fogmaker: Manually actuated Fogmaker: Automatically actuated Ansul: Manually actuated Ansul: Automatically actuated Tempus: Manually actuated (Non CE)

GREASING SYSTEM

Automatic lubrication system for carrier and Normet boom: Lincoln

OTHER

Fast fuel filling system: Wiggins Extra hand held fire extinguisher (12 kg) Warning lights, 1 unit:

- Rotating beacon; amber
- Rotating beacon; red
- Rotating beacon; blue
- Strobe light; white

Text labels in: Fin / Por /GB / Swe / Rus / Nor / Ger / Fra / Spa / Ita

2 wheel chocks with brackets Reversing camera Scamec 2000 spare wheel Scamec 2000 spare wheel with rack

normet Scamec 2000 S

LTC services

SPARE PARTS

Spare parts package A: Available for 1000 h of use*. Includes periodical service, most common wearing parts, and most critical safety parts

Spare parts package B: Available for 3000 h of use*. Includes periodical service, most common wearing parts, and most critical safety parts

* Recommendations are based on average hours - can vary a lot depending on work site conditions.

TRAINING SERVICES

Available before delivery, at start up and after delivery

Product training:

Operation and Maintenance NorSmart Foundation of electrics, hydraulics and mechanics Audit **Process training:** Concrete spraying Charging Process audit

AUDIT SERVICES

To improve performance of the machines To improve the performance of your processes To help improve the quality of maintenance operations

SERVICE CONTRACTS

Spare parts supply programmes Scheduled inspection programmes Supervision programmes Periodic maintenance programmes Machine usage programmes

LINK ONE

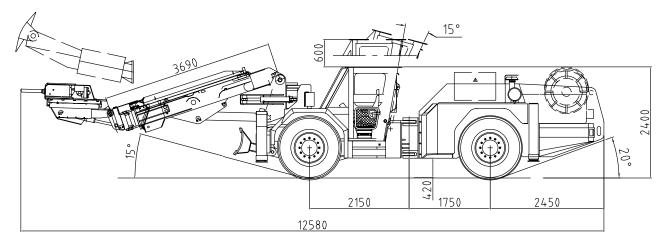
Link One electronic spare part manuals

WARRANTY SERVICES

Extended warranty

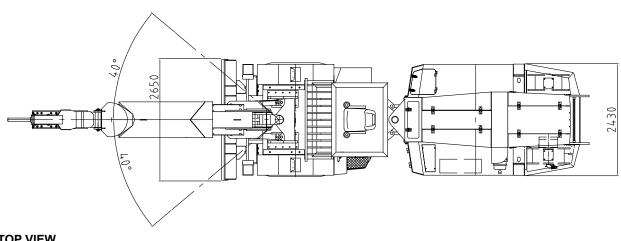
normet Scamec 2000 S

Dimensions



SIDE VIEW

Basic machine.



TOP VIEW

Machine with options and extra equipment.

DIM	ENS	IONS
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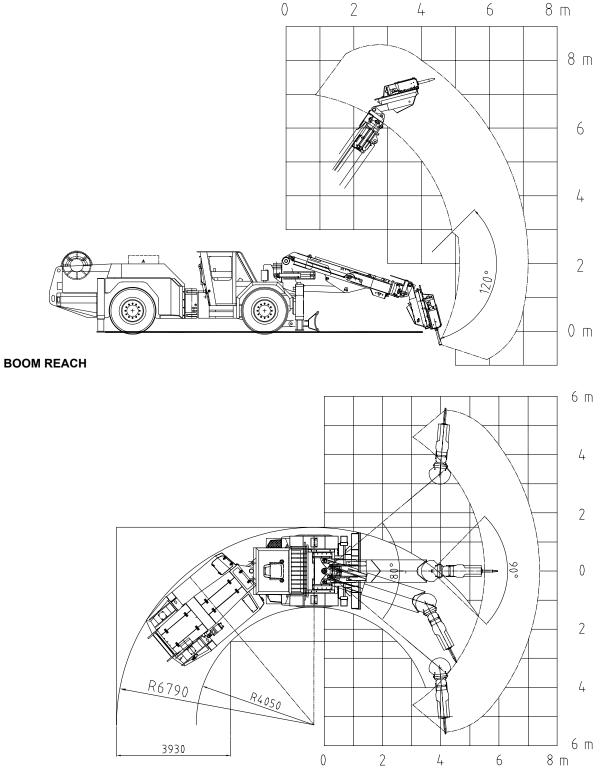
Length	12580 mm
Width	2650 mm
Height (standard)	2400 mm
Wheel base	3900 mm
Ground clearance as shown	420 mm

TURNING RADIUS	
Outer Inner	6790 mm 4050 mm
WEIGHT	
Operating weight:	24 200 kg

normet Scamec 2000 S

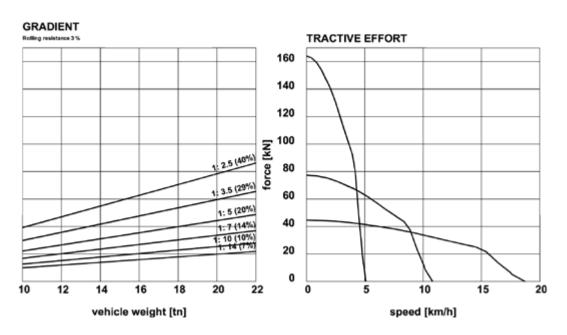
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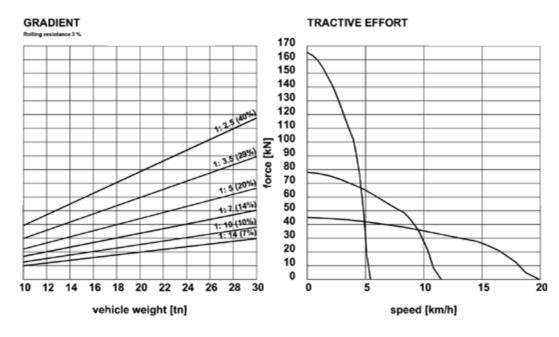


TURNING RADIUS

Tractive efforts



DEUTZ TCD 2012 L6, 155 kW Performance curve DOC000805



MERCEDES-BENZ OM 906 LA, 170 kW Performance curve 100003433