

SPRAYMEC 8100 VC

EN135



Features

Spraymec 8100 VC is an electro-hydraulic self-propelled mobile concrete sprayer which optimizes concrete spraying in tunnel projects with variable tunnel cross-sections. It provides efficient spraying from one set-up in tunnels up to 10.3 m in height and 16 m in width. The maximum vertical spraying reach is 14 m. The compact design enables the mobile sprayer to perform spraying in tunnels with cross-sections from 15 - 140 m².

The Spraymec 8100 VC is designed for high performance sprayed concrete applications and the use of alkali-free accelerators. It features the latest state-of-the-art control system of the spraying process, NorSmart2. This is a concrete sprayer control system that provides efficient, productive and high-quality concrete spraying.

Spraymec 8100 VC

>	Serial number	EN135
>	Manufactured:	2014
>	Available:	Upon Request
>	Machine condition grade:	Grade 3
>	Engine:	Deutz 2011 L4
>	Operating Hours:	1761 HRS
>	Compressor Hours:	2290 HRS
>	Powerpack Hours:	3736 HRS
>	Voltage	575V/60 Hz

SALES & MARKETING INFORMATION

Equipped with:

FOR WALL AND MACHINE WASHING

Hydraulically operated pressure washer:

- Max. water pressure 180 bar.
- Max. water flow 90 L / min.
- Wall washing system 460 bar / 50 L/min.

OIL CONDITION MONITORING

Hydraulic oil diagnostic sensor

Boom and concrete pump hydraulic oil contamination monitoring and moisture % RH indicator

OIL FILTRATION SYSTEM

Bypass filter kit

For concrete and boom oil circuit:

- 0,5 µm filtration, extremely clean oil.
- Also absorbs the water from the oil.
- Longer lifetime for the hydraulic components.
- Reduces cost of ownership.

ANSUL FIRE SUPPRESSION SYSTEM

GREASING SYSTEM

Automatic greasing system (Lincoln)

AIR CONDITIONING

Enclosed cabin with air conditioning.

REMOTE CONTROL SYSTEM

Radio control with 2 joysticks with cable support

ACCELERATOR SYSTEM

IBC container 1000 L.

FORM OIL SYSTEM

Air pressure-driven system with hose reel:

- Tank capacity 40 L.
- Hose length 30 m.
- Working pressure 7 bar.

SALES & MARKETING INFORMATION

OTHER

- Extra hand-held fire extinguisher (9 kg).
- Xenon driving lights for reverse direction 2 x 35 W.
- 2 wheel chocks with brackets.
- Reversing camera.
- Spare wheel.

Additional info

- > CE-label [NA]
- > EAC label [-]
- > FOPS/ROPS [Yes]

INSTRUCTION MANUALS

- > Language [ENG]
- > Quantity [1]

SPARE PART MANUALS

- > Language [ENG]
- > Quantity [1]



SALES & MARKETING INFORMATION

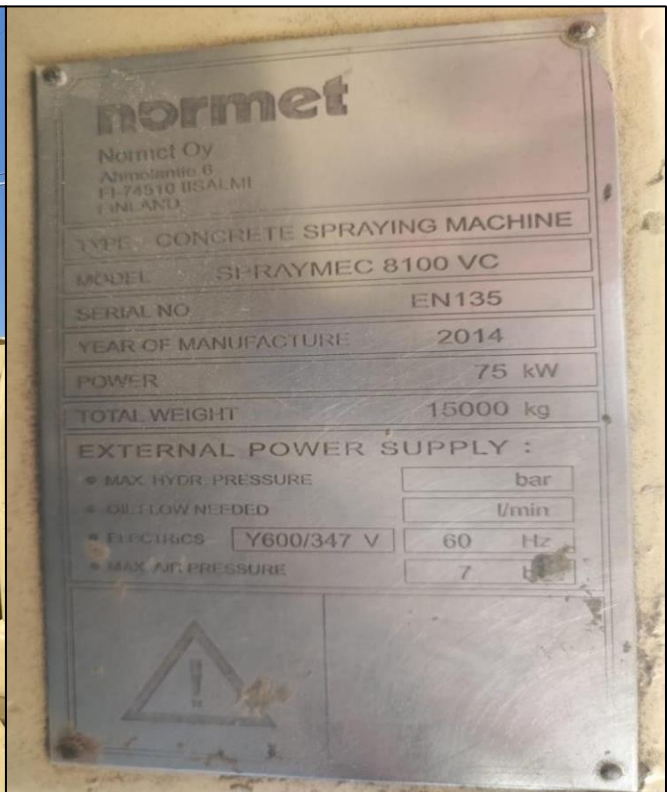


SALES & MARKETING INFORMATION



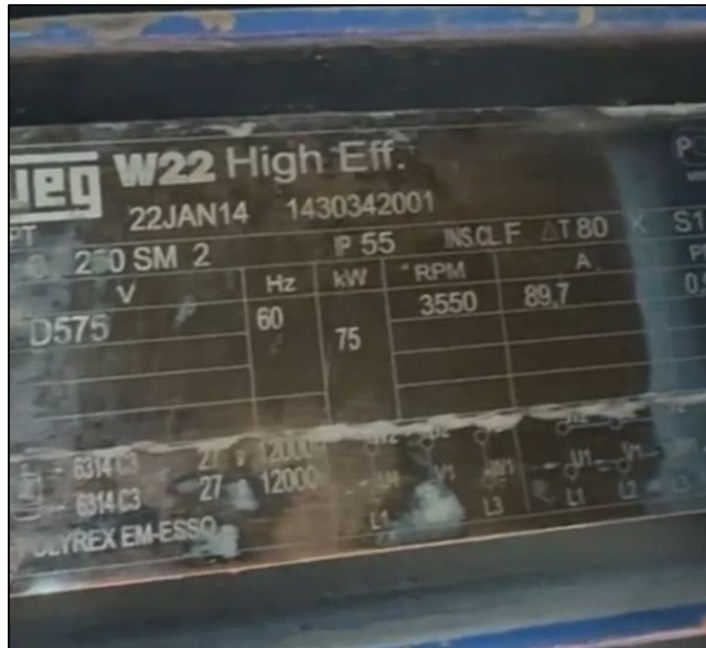
CABIN

IDENTIFICATION PLATE

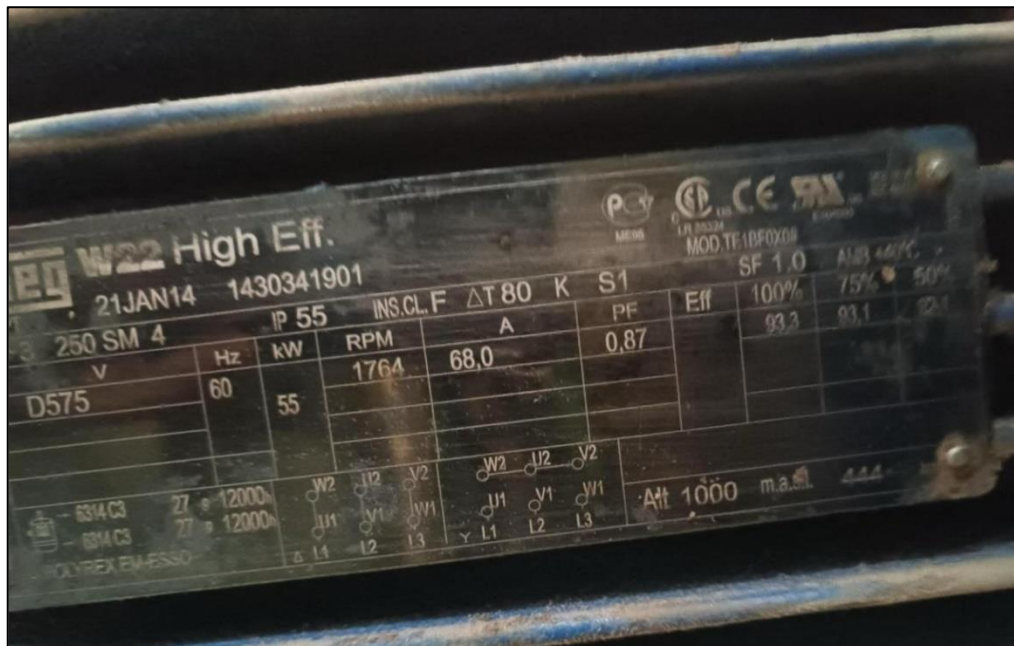


SALES & MARKETING INFORMATION

COMPRESSOR ELECTRIC MOTOR PLATE



POWER PACK ELECTRIC MOTOR PLATE



SALES & MARKETING INFORMATION

Technical specification

SPRAYBOOM SB 508 E

Automatic functions:

- Vertical and horizontal stabilization
- Nozzle rotation
- Telescopic stroke (upper boom)

Upper boom telescope protected with heavy duty wear resistant cover

The speed of the movements can be adjusted from the cabin display

All the movements are pressure compensated and have a proportional output

Boom coverage:

- Lateral 16 m
- Vertical max 14.0 m
- Vertical normal 10.3 m

CONCRETE PUMP

Spray pump NSP 40

Low-wear and low-maintenance double piston pump:

- Pumping capacity theoretical 3 - 30 m³/h
- Pumping cylinder diameter 200 mm
- Cylinder stroke 920 mm
- Pumping pressure max. 51 bar
- Hydraulic pressure max. 250 bar

High pumping pressure enables the conveying of stiff concrete

The pump is able to pump up to max. aggregate size of 16 mm (including crushed) and all types of fibres (max. length 60 mm) in the mix

Sophisticated control system (hydraulic and electric systems) provides low pulsation concrete flow

Hydraulically driven agitator

COMPRESSOR

Electrically operated screw compressor

FAD 12 m³ at 7 bar

Electric motor 75 kW

Air flow to nozzle adjustable in three steps (8 m³, 10 m³ and max. flow)

REMOTE CONTROL SYSTEM

Operator's cable-connected control box with 2 joysticks. Following features can be adjusted or switched on/off from the control box:

- Accelerator dosing rate
- Accelerator pump on/off
- Concrete pumping speed
- Concrete pump on/off/reverse
- Air flow to nozzle on/off and air rate in three steps
- Nozzle quick wash on/off
- Wall washing on/off
- Automatic horizontal levelling on/off
- Automatic second telescope zoom in/out on/off
- Nozzle rotation on/off

ACCELERATOR SYSTEM

Nordoser XI:

Hydraulically driven mono-style dosing pump with electric control

Max pumping pressure 12 bar

Dosing rate 0.6..16 L/min (36 - 960 L/h)

Accelerator flow fully synchronized with the concrete output

Dosing % adjustable from the remote control unit and from the cabin

Electrical control system for concrete pump with low pulsation pumping feature

Concrete output adjustable from the remote control unit and from the cabin

Possibility of using 2 x 1000 L intermediate bulk containers (IBC)

CONCRETE LINE

Concrete line diameter 76 mm

CONTROL SYSTEM

Integrated, seamless NorSmart control and diagnostic system. NorSmart2 controls:

- Spray boom
- Concrete pump
- Accelerator dosing system
- Carrier functions
- Safety requirements
- Fault diagnostics
- Data logging

DRIVER'S COMPARTMENT

Open 1-man canopy. FOPS / ROPS approved

Suspended driver's seat

Seat with retractable (75 mm wide) lap seat belt

The driver's compartment with driving controls and pedals, including multi-informational colour display

WATER REEL

Manually operated reel

- Hose length 30 m
- Hose size 3/4" (19 mm)

HIGH PRESSURE WATER WASHER

Hydraulically operated pressure washer with hose reel:

- Max. water pressure 180 bar
- Max water flow 30 L/min
- Hose length 30 m

ENGINE

Liquid cooled turbo-charged Deutz TCD 2011 L4, 74.9 kW/2600 rpm, TIER 3 approved

EXHAUST SYSTEM

Catalytic exhaust gas purifier and muffler

SALES & MARKETING INFORMATION

Technical specification

TRANSMISSION

Hydrostatic 4-wheel transmission
 Pump 78 cm³
 Motor 110 cm³
 Separate oil tank 90 L stainless steel
 Return oil filtration 10 µm
 Oil level and return filter contamination indication

AXLES

Planetary type
 Dana 602 / 212, 212 ty
 Boom end axle fixed
 Rear end axle oscillation +/- 10° with automatic oscillation lock

TYRES

10.00 - 20 EM 23

PERFORMANCE

Max. tractive force 62 kN
 Max. speed (horizontal tunnel) 15 km/h
 Performance curve 100018270

BRAKES

Service brake: hydraulically powered two-circuit oil-immersed multi-disc brakes in both axles
 Safety/Parking brake: spring-activated, hydraulically released, fail-safe-type brake. Brake test possibility in cabin
 Automatic Brake Application (ABA)

STEERING

Four-wheel steering as standard
 Orbitrol type
 Including crabwalk

FUEL TANK

Capacity 85 L. Stainless steel

HYDRAULIC SYSTEM

Electro-hydraulic power pack 55 kW / 60 Hz / 1800 rpm
 Variable displacement piston pump systems with following outputs:

- 115 L/min for concrete pump (piston type)
- 110 L/min for boom (piston type)
- 30 L/min for s-tube change (piston type)
- 24 L/min for agitator and dosing system (gear type)

Hydraulic oil tank capacity 220 L. Stainless steel
 Oil cooler for concrete and boom circuit
 Return oil filtration 10 µm
 Oil level and return filter contamination indication

24 VDC ELECTRICAL SYSTEM

Exposed components are min. IP 65 standard
 Battery 2 x 115 Ah
 Alternator 55 A
 Wire harness (self extinguishing) with tinned wires and watertight conduits
 LED driving lights:

- Engine end, 2 pcs
- Rear end, 2 pcs

 Rotating beacon; amber
 LED parking and brake lights

HIGH VOLTAGE ELECTRICS

460 V, 60 Hz. Cable type 3 x 95 mm² + 3 x 16 mm²
 Cable length 100 m
 See options for other available systems
 Soft start system for compressor

CABLE REEL

Power supply for the electrical functions
 Max. cable diameter / length 3 x 95 mm² + ground / 100 m
 Hydraulically driven
 Cable in / out reeling function from the canopy and near the reel

WORKING LIGHTS

24 VDC LED lights

- 8 pcs in the SB 508 Boom
- 2 pcs on canopy roof

GREASING SYSTEM

Centralized grease fittings for:

- Carrier
- Concrete pump
- Sprayboom

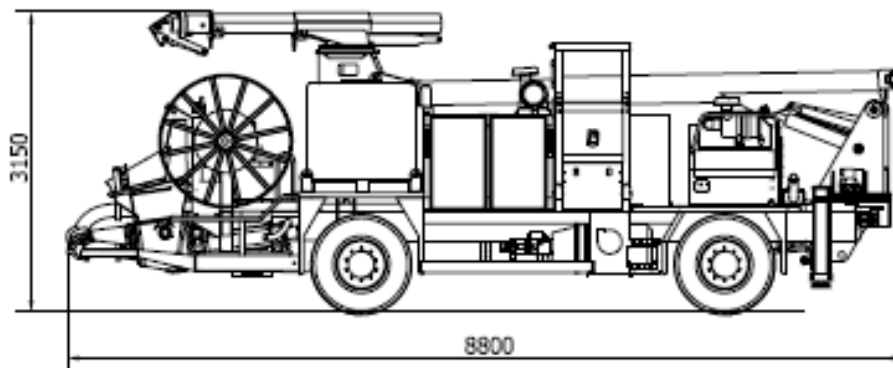
OTHER

9 kg hand-held fire extinguisher
 Standard symbol labels
 Basic tool set:

- Cleaning plug
- Washing ball
- Hitting tool for nozzle
- Claw coupling
- Hose clamp
- Rubber hose 3/4" 4 m
- Carabiner
- Wrench for spraymec nozzles
- Sledgehammer 800g
- Nozzle tip d45mm plastic
- Nozzle tip d45 boron steel
- cone for concrete piston assembly
- special bolt for concrete piston assembly

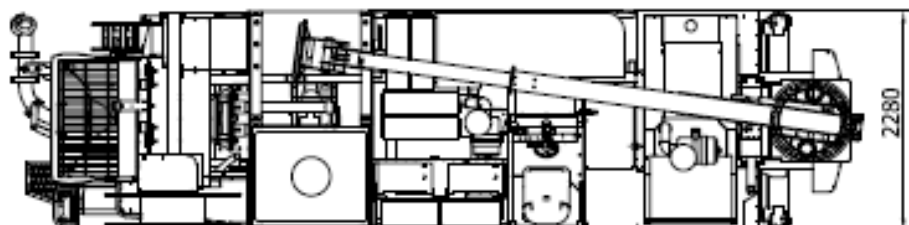
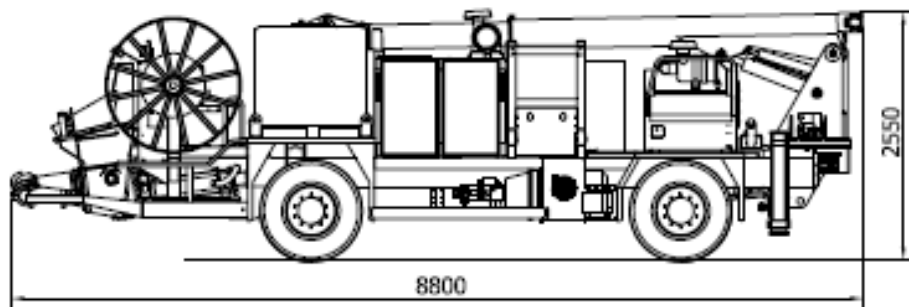
SALES & MARKETING INFORMATION

Dimensions



SIDE VIEW 1

Basic machine. Transportation and driving dimensions, boom turned on the vehicle. Vehicle width 2500 mm

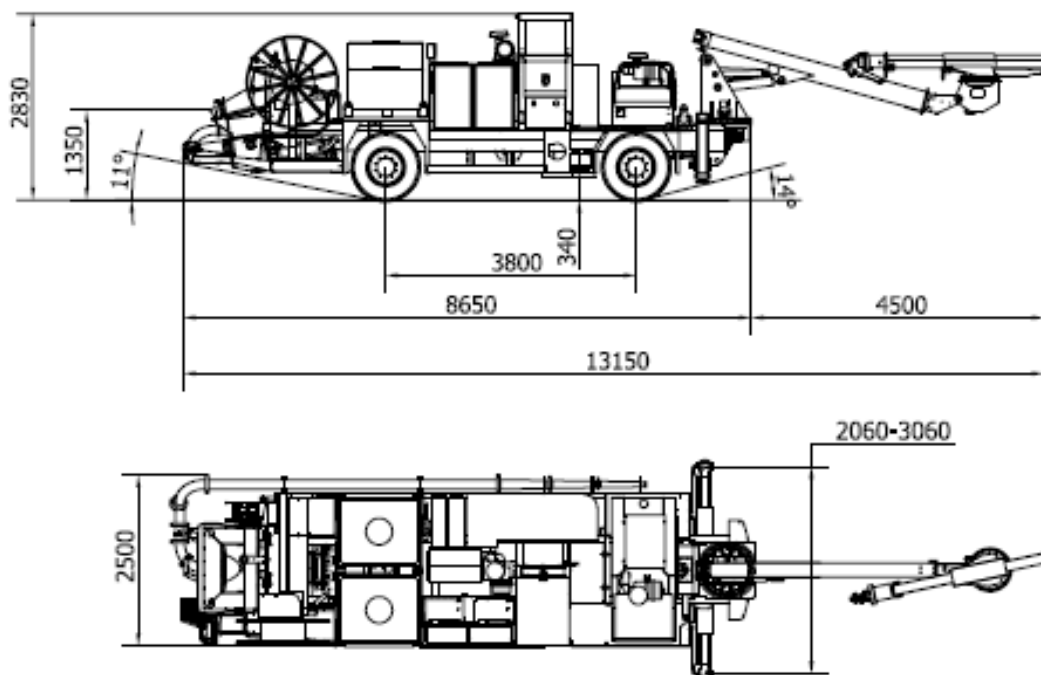


SIDE AND OVERVIEW 2

Basic machine. Transportation dimensions for container transport
Upper part of the cabin, concrete line, ladders and upper part of the boom must be removed

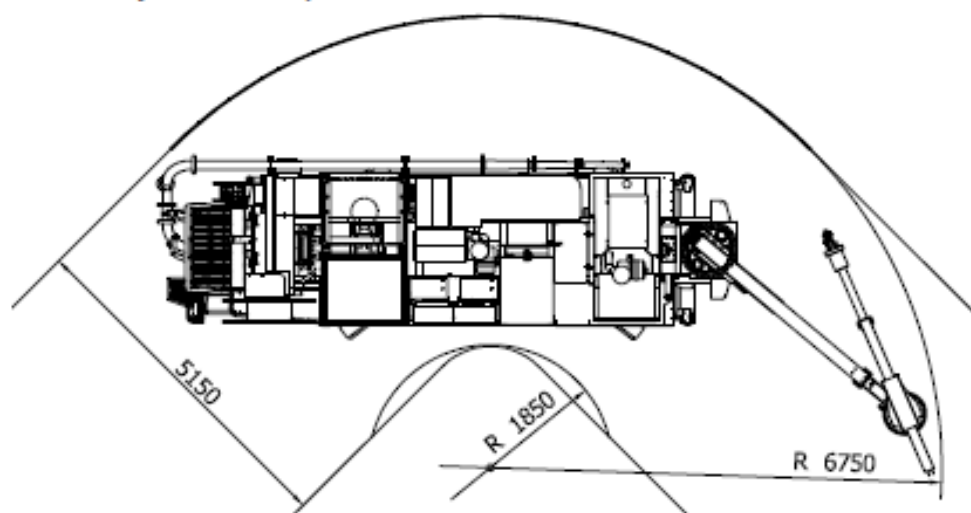
SALES & MARKETING INFORMATION

Dimensions



SIDE AND OVERVIEW 3

Basic machine. Driving dimensions at job site



TURNING RADIUS

DIMENSIONS

Length	13150 mm
Width	2500 mm
Height	2830 mm
Wheel base	3800 mm
Ground clearance	340 mm

TURNING RADIUS

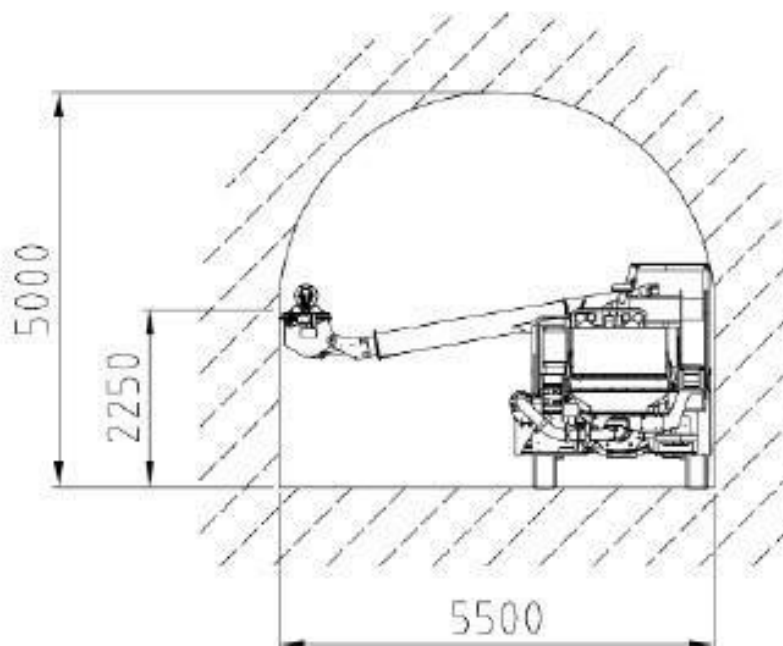
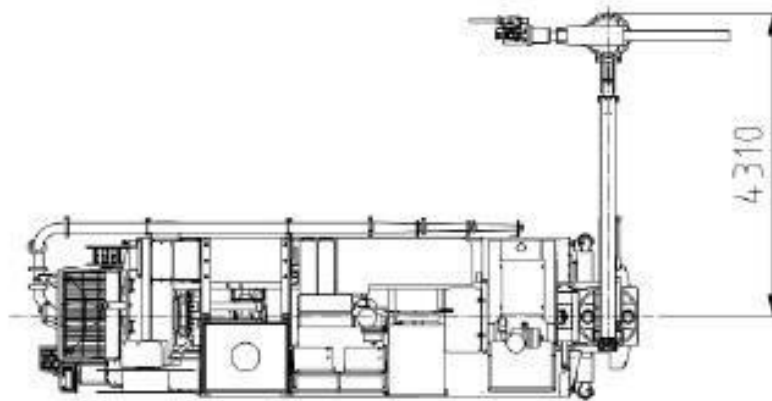
Outer	6750 mm
Inner	1850 mm

WEIGHT

Operating	14 500 kg
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SALES & MARKETING INFORMATION

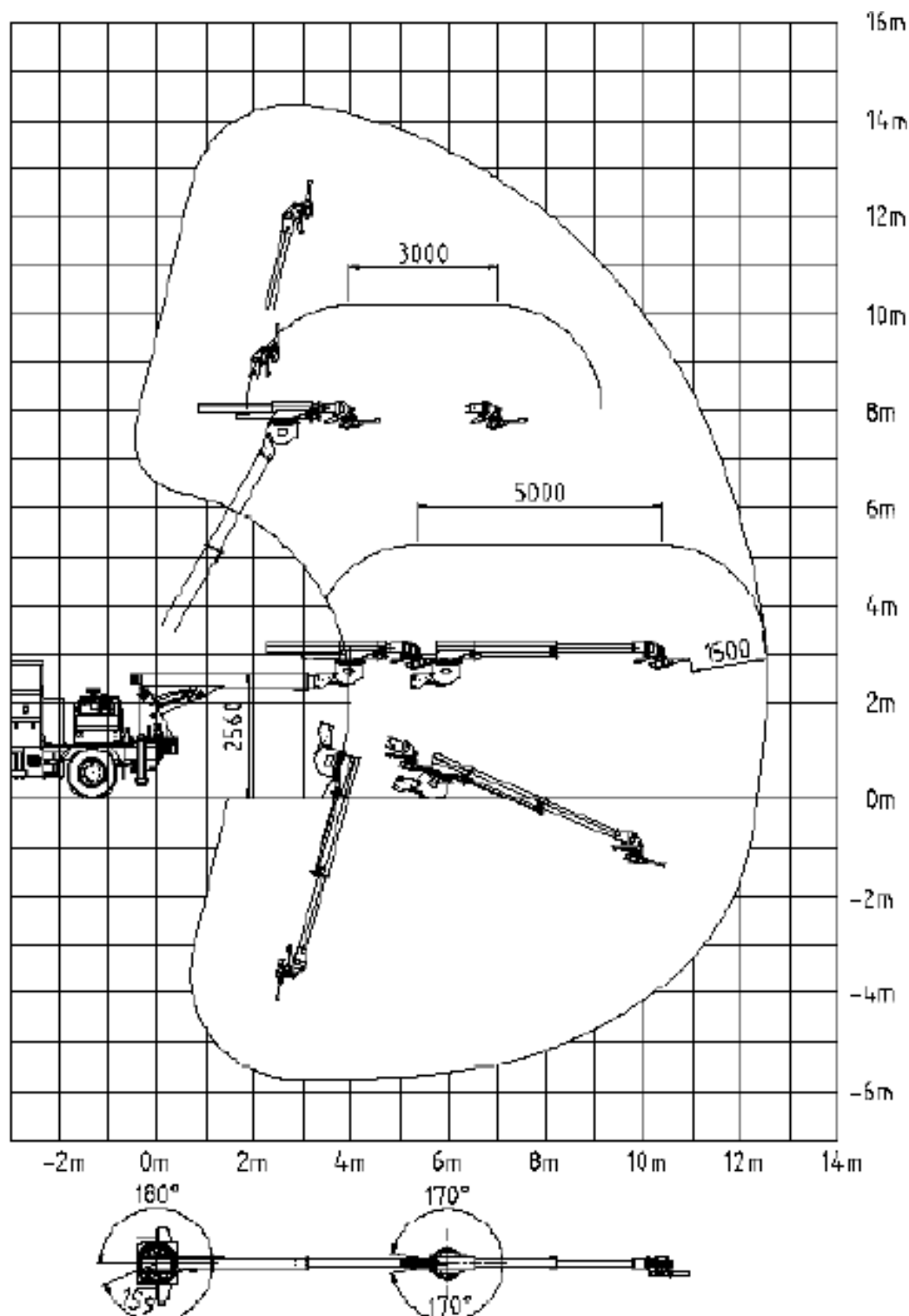
Dimensions



FRONT AND TOP VIEW

Basic machine. Required space to unfold boom from transport position to working position

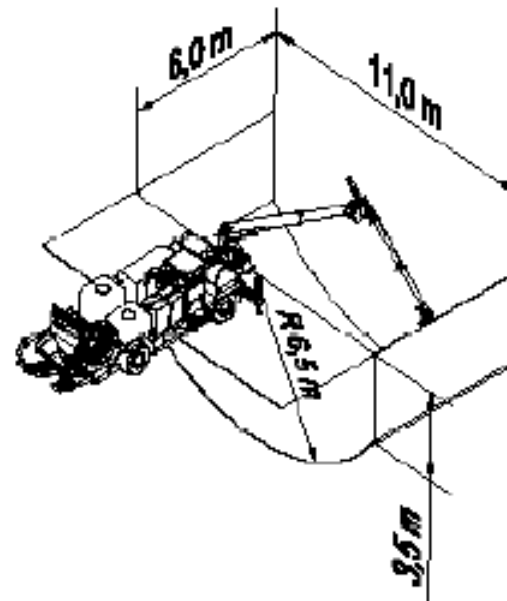
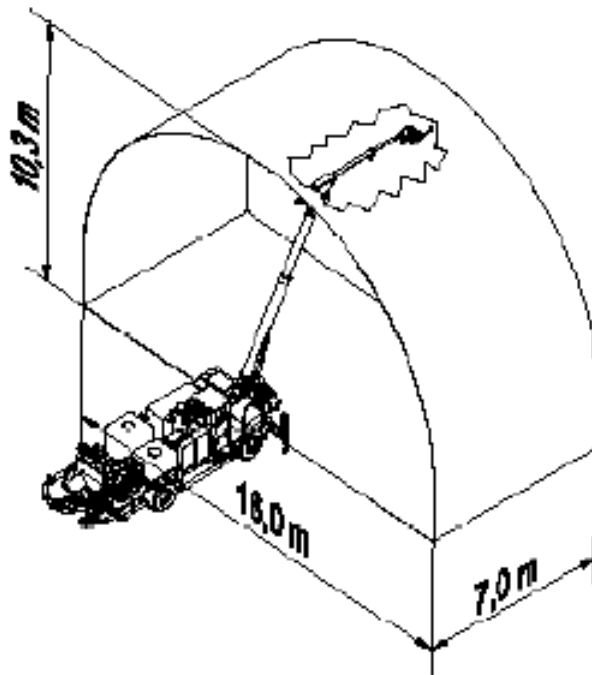
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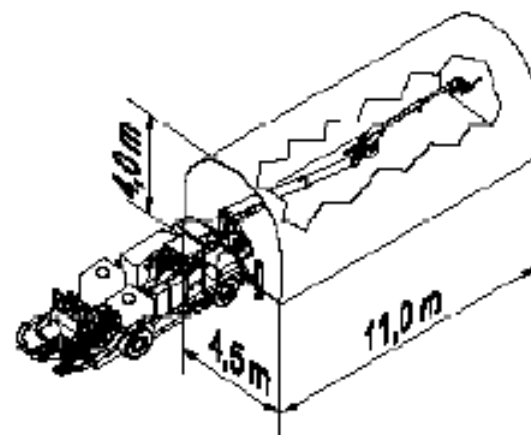
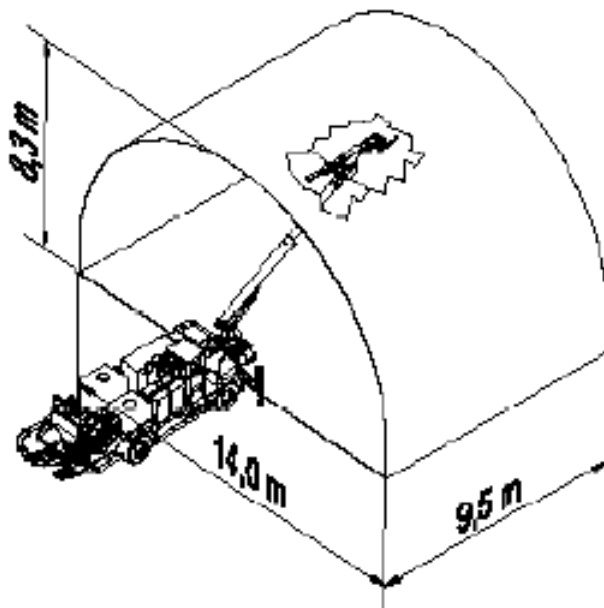
COVERAGE AREA OF SPRAY BOOM SB 508

SALES & MARKETING INFORMATION

Max. reach



Min. section



COVERAGE AREA OF SPRAY BOOM SB 508