



Pictured machine may include options and additional equipment.

Features

The Himec RM 905 is a self propelled boom unit suitable for lifting and installing works and charging of explosives in tunnells. It consists of the new Normet Rigid Frame Carrier (=R) with M-series Cummins B4.5 Stage V 121 kW or Tier3 110 kW engine and NBB3 basket boom. 500 kg lifting load and maximum 9.1 m platform height helps to reach up to 11.4 m high roofs. Lateral working reach is 10 m.

Boom controls are in the basket and down on the carrier.



Technical specification

NBB3 BASKET BOOM

2-men basket Lifting capacity of basket 500 kg = 340 kg + 2 persons Basket size 1.2 m x 1.8 m -20°...+60° Boom lift Boom extension 4.0 m Max. Lifting height (basket floor) 91 m Max. Vertical reach 11 m +/- 300 Boom slew Max. Lateral coverage 10 m

Diesel start/stop (from the basket) Battery operated emergency pump

ENGINE

Liquid cooled turbo charged CUMMINS B4.5 121 kW/2500 rpm, Stage V approved Requires DEF (urea) and ultra-low sulphur diesel (ULSD) (max sulphur content < 15 ppm)

TRANSMISSION

Hydrostatic 4-wheel transmission

Variable piston pump

Variable piston motor

Separate stainless steel oil tank

110 L

AXLES

Planetary type Dana 223

Rear end axle oscillation +/- 8°

Boom end axle fixed

TYRES

12.00 - 20

PERFORMANCE

Max. Horizontal speed (horizontal tunnel) 25 km/h
Max. speed in 1:7 inclined tunnel 9 km/h
Max. Tractive force 113 kN

BRAKES

Service brake; hydraulically powered two-circuit Oil-immersed multi-dics brakes in both axles

Safety/Parking brake; spring-activated, hydraulically Released, fail-safe-type brake. Brake test possibility in cabin

STEERING

Four-wheel steering as standard Orbitrol type Including crabwalk

FUEL TANK

Capacity 140 L Stainless steel

DEF TANK

Diesel Exhaust Fluid Capacity 19 L

HYDRAULIC SYSTEM

Variable displacement pump system
190 bar, 95 L/min/2200 rpm
Hydraulic oil tank capacity 130 L
Return oil filtration 10 µm
Indication of level, filtration and temperature

24 VDC ELECTRICAL SYSTEM

Exposed components are min. IP65 stardard Battery 2 x 80 Ah

Alternator 80 A

Wire harness (self extinquishing) with tinned wires and watertight conduits

Led driving lights

Front end LED lights
 Rear end LED lights
 2 x 1300 lm
 LED directional lights on front and rear side

LED working lights

4pcs on cabin2pcs on carrier

DRIVER'S COMPARTMENT

Open cabin FOPS/ROPS approved
Air suspended driver's seat
Seat with retractable lap seat belt
Forward and side seating for the driver with two
sets of pedals (brake and accelerator)
Cabin door interlock switches with safety brake
application
MID 070 S Multifunctional Display with:

- Meters; e.g. speed, RPM, operating hours
- Status indicators; e.g. fluid levels, temperatures, pressures, alarms, faults

MACHINE CONNECTIVITY

Machine connectivity hardware (WLAN/3G/4G/LTE)

GREASING SYSTEM

Centralized grease fittings for the carrier

OTHER

12 kg hand held fire extinquisher Standard symbol labels Hydraulic front support legs Hydraulic rear support legs



Optional equipment

DRIVER'S CABIN

Enclosed cabin, FOPS/ROPS HVAC system

ENGINE

Liquid cooled turbo charged CUMMINS QSB4.5, 110kW/2300 rpm, TIER 3 approved

• Exhaust system: Catalytic exhaust gas purifier and muffler

MACHINE CONNECTIVITY

- Data lifetime license (Include connectivity hardware)
- Analytics lifetime license (Include connectivity hardware and data lifetime license)

OTHER

Warning lights, 1 unit:

- Rotating beacon; red
- · Rotating beacon; blue

Additional equipment

HIGH VOLTAGE SYSTEM

400V/50Hz power pack 690V/50Hz power pack 1000V/50Hz power pack

COMPRESSOR

2.6 m³/min hydraulic driven compressor

FOR ENCLOSED CABIN

CD/Radio system

FOR NBB BASKET BOOM

Safety har

Safety bar with hydraulic lift:

Reduces lifting capacity 60 kg

Safety roof with hydraulic lift:

Reduces lifting capacity 100 kg

Safety roof with hydraulic lift and slide: Reduces lifting capacity 200 kg

LED working lights on safety roof (2 pcs) 73 W

FIRE SUPPRESSION SYSTEM

Fogmaker: Manually actuated Fogmaker: Automatically actuated Ansul: Manually actuated Ansul: Automatically actuated

GREASING SYSTEM

Automatic lubrication system for carrier and lifter: Lincoln

OTHER

Fast fuel filling system: Wiggins Oil evacuation kit with sample points 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 / En / Por / Swe / Rus / Nor / Ger /

Fra /Spa / Ita

Toolbox and maintenance tools 2 wheel chocks with brackets

Reversing camera Spare wheel



LTC services

RECOMMENDED SPARE PARTS FOR EARLY LIFE

Spare parts package: A complete package to make sure your machine runs with optimal uptime up to 1000 operation hours*.

Includes periodical maintenance parts and most critical spare parts related to e.g.:

- Engine (e.g. filters, belts)
- Chassis (e.g. wiper blades, throttle pedal connector)
- Hydraulics (e.g. filters)
- Electrics (e.g. sensors, work lights, solenoid coils, contactors)
- Boom (e.g. sliding parts, bearings, cylinders, seals, pins)
- Compressor, if applicable (e.g. filters)
 - *) In challenging operating environment 1000h of usage may not be reached with this spare parts package.

EXTENDED WARRANTY

Extended warranty extends the standard warranty period (12 months or 2000 usage hours) up to total 24 months or 3000 usage hours, whichever is reached first.

ELECTRONIC MANUALS ON THE WEB

LinkOne electronic spare parts and instruction manuals

TRAINING AND EXPERTISE SERVICES

Available before and at the equipment delivery – and during the whole equipment life-time!

Product training:

Operation and Maintenance Automation - NorSmart Foundation of electrics, hydraulics and mechanics Trouble-shooting

Process & operator improvement audit for:

Concrete spraying Charging Scaling

Audit services to improve:

Performance, availability, maintenance & repair efficiency, safety, quality, environmental aspects

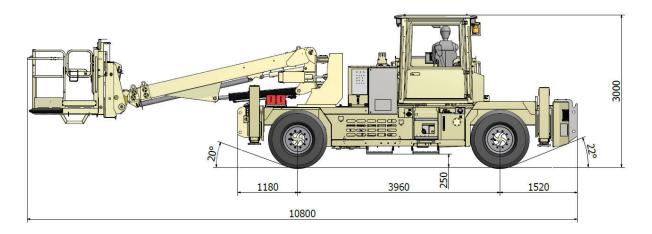
SERVICE CONTRACTS FOR

Spare parts supply Scheduled inspection Supervision Scheduled maintenance Preventive maintenance

EQUIPMENT HAND-OVER SERVICES

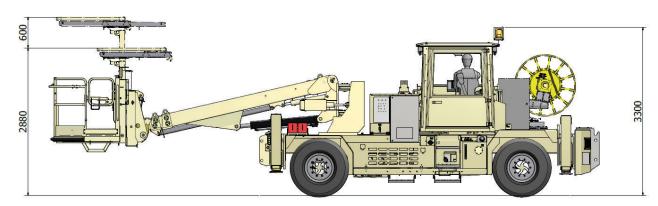
	Start-up training	Commissioning
1. Operator training		
1.1 Classroom training		
General introduction and operation of machine	Comprehensive	No classroom training included in commissioning
Safety instructions	Comprehensive	
Use of manuals	Comprehensive	
Technical introduction of equipment	Comprehensive	
Hands-on service and pre-operation checks	Comprehensive	
Controls and driving (starting, driving, stopping, parking)	Comprehensive	
Work method	Comprehensive	
1.2 Practical training		
Pre-operation checks	Comprehensive	Basic
Driving, starting, stopping, parking	Comprehensive	Basic
Preparing the machine for specific operation conditions	Comprehensive	Not covered
Operation	Comprehensive	Basic
Washing the machine	Comprehensive	Basic
Troubleshooting	Comprehensive	Basic
2. Maintenance and repair training		
General operation of machines	Comprehensive	Basic
Symbols of drawings and codes	Comprehensive	Not covered
Understanding hydraulic and electric schematics	Comprehensive	Basic
Control systems	Comprehensive	Basic
Function of main components (depending on equipment)	Comprehensive	Basic
Locations of components in the machine	Comprehensive	Not covered
Periodical maintenance	Comprehensive	Basic
Troubleshooting	Comprehensive	Not covered
Use of manuals	Comprehensive	Basic
Connection of hydraulic and electrical equipment	Comprehensive	Not covered





SIDE VIEW

Basic machine



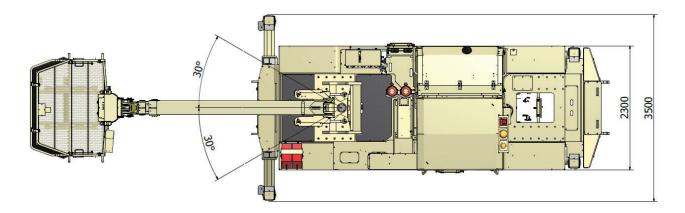
SIDE VIEW

Machine with options

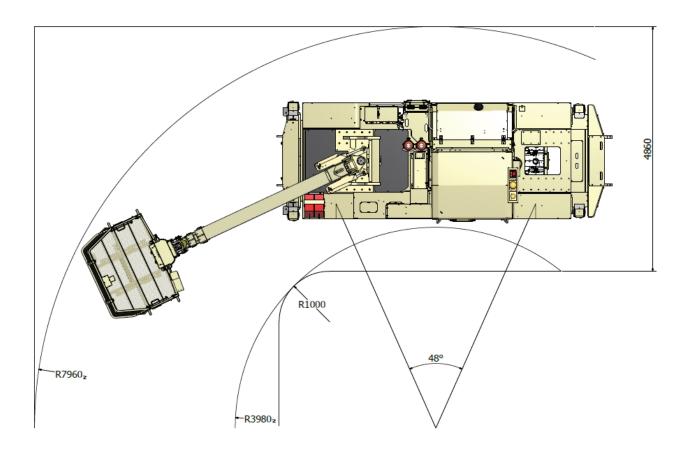
DIMENSIONS	
Length	10800 mm
Width	2300 mm
Height	3000 mm
Wheel base	3960 mm
Track	1650 mm

TURNING RADIUS	
Outer	7960
Inner	3980
WEIGHT	
Operating	18 000 kg



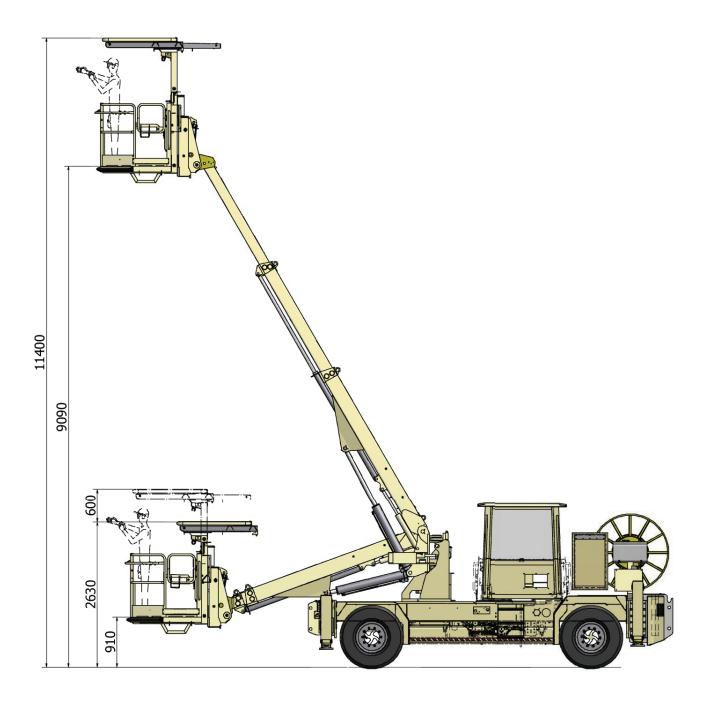


TOP VIEW



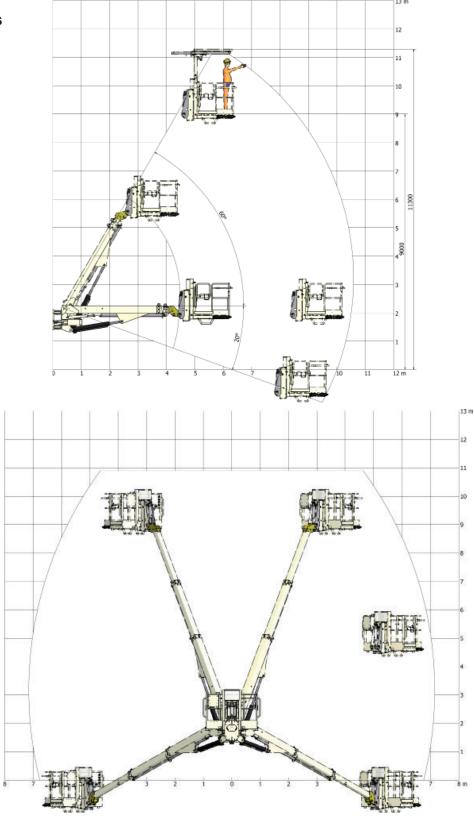
TURNING RADIUS





BOOM MOVEMENTS

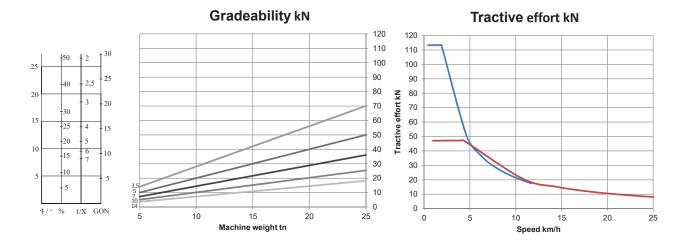




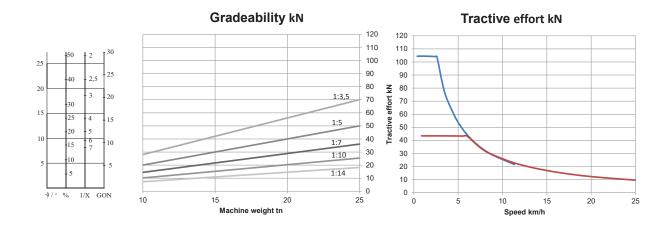
COVERAGE AREA OF NBB3 BOOM



Performance



CUMMINS B 4.5 121kW Stage V Performance curve



CUMMINS QSF4.5 110kW Tier3
Performance curve