



Pictured machine may include options and additional equipment.

Features

Charmec MC 605 ANFO charger with diesel hydraulic drive is designed for face and production charging in underground mines and tunnels up to 65 m^2 cross sections where max face height is 8,4 m.

ANFO vessels options of 2 x 250 / 360 / 500 / 720 litres provides enough explosive storage volume for several faces without need for refuelling. Ready designed place for stick powder boxes, primers and detonators makes it possible to bring all the needed materials to the workplace at once and eliminates the need for an additional explosive service vehicle. Compressor option eliminates the need for external pressure air line.

The liquid cooled turbo charged 110 kW TIER 3 approved engine provides clean and efficient operation and gives maximum speed of 25 km/h and 8 km/h in upward 1:7 inclined tunnel.

The FOPS /ROPS approved safety canopy / cabin with pivotal operator's seat provides comfortable compartment for the driver and his assistant. The enclosed cabin provides noise level < 75 dB.

Self extinguishing marine type wire harness with tinned wires and water tight conduits are specially designed for safe and reliable operation in tough underground conditions. All daily checks can be done from the ground level.



Technical specification

CHARGING SYSTEM

2 ANFO vessels and work stand, 1 charging operator 500 liter stainless steel ANFO kettle

Pressure max. 7 bar

Extra air for charging

Pneumatic hand and foot control for charging

and blowing

Pneumatic control in basket to switch between vessels

Anfo hose 19 x 25 mm

Earth straps front and rear

Storage area for stick powder boxes

Storage boxes for primers and detonators

NBB3XS BOOM

2-men hanging square tube basket

Lifting capacity 710 kg

Boom lift -11°...+ 60°

Max. Lifting height (basket floor) 6.4 m

Max. Vertical reach 8,4 m

Boom slew +/- 30°

Automatic levelling of basket

Diesel start/stop from basket

Battery operated emergency pump for lowering the boom

ENGINE

Liquid cooled turbo charged Mercedes-Benz OM 904 LA, 110 kW/2200 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 123

Load end axle fixed

+/- 10° Engine end axle oscillation

PERFORMANCE

1st gear max. 6 km/h 13 km/h 2nd gear 3rd gear 25 km/h Max. tractive effort 120 kN Max speed in upward 1:7 inclined tunnel 8 km/h 4800030 Performance curve

STEERING

Hydraulic frame steering

Orbitrol type

Frame articulation +/- 40°

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

TYRES

12.00 - 20 PR 20

FUEL TANK

Capacity 112 L

HYDRAULIC SYSTEM

Variable displacement pump system, 190 bar, 95 L/min/2200 rpm Hydraulic oil tank capacity 115 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 (4 + 2 pcs) 70 W

Working halogen lights (2 + 2 pcs) 70 W

LED working lights in basket (2 pcs)

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 2-man cabin FOPS/ROPS approved

Air suspended driver's seat

Seats with retractable lap seat belt

Forward and side seating for the driver with two sets of pedals (brake and accelerator)

Support leg jack down switch

CANCockpit, Master Gauge:

- Tacho, rpm
- Operating hours
- Fuel level
- Transmission and cooling water temperature

GREASING SYSTEM

Centralized grease fittings for the carrier

OTHER

12 kg hand held fire extinguisher (2 pcs) Standard symbol labels

Extendable support legs at the load end



Optional equipment

CHARGING SYSTEM

ANFO system:

2 charging operators

ANFO module:

ANFO filling system

ANFO vessel size:

- 250 L
- 360 L
- 720 L

Radio controlled charging and blowing in basket:

Optional for pneumatic control

ANFO hose diameter:

 For manual hose feeding 22x28 / 26,5x33,5 / 41,5x51 mm

ANFO hose length:

30/60 m

DRIVER'S CABIN

Enclosed cabin

Air suspended T-back seat for driver and passenger

EXHAUST SYSTEM

Vertical exhaust stack

OTHER

Xenon working lights (2 + 2 pcs) 35 W LED driving lights (4 + 2 pcs) 18 W LED working lights (2 + 2 pcs) 43 W Warning lights, 1 unit:

- Rotating beacon: red
- Rotating beacon; blue

Additional equipment

CHARGING SYSTEM

Additional pneumatic charging controls: For toe

holes and ground level charging work

4 m³/min onboard diesel-hydraulic compressor

BOOM OPERATION

Dead man's pedal switch

Prevents the boom operation if not pressed

FOR ENCLOSED CABIN

CD/Radio system

Cabin ventilation:

- Cabin heating
- · Air conditioning

FOR NBB BASKET

Safety bar

Safety roof with hydraulic lift:

• 400 kg = 240 kg + 2 persons

Safety roof with hydraulic lift and slide:

300 kg = 140 kg + 2 persons

LED working lights on safety roof (2 pcs) 43 W

FIRE SUPPRESSION SYSTEM

Ansul: Manually actuated Ansul: Automatically actuated

GREASING SYSTEM

Automatic lubrication system for carrier: Lincoln Automatic lubrication system for carrier and lifter:

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

Spare wheel

3/7



LTC services

SPARE PARTS

Spare parts package A: Available for 1000 h of use*. Include periodical service, most common wearing parts and most critical safety parts. Special attention for parts that are crucial for charging process

Spare parts package B: Available for 3000 h of use*. Include periodical service, most common wearing parts and most critical safety parts. Special attention for parts that are crucial for charging process

* 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

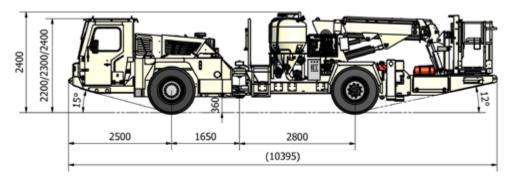
Link One electronic spare part manuals

WARRANTY SERVICES

Extended warranty

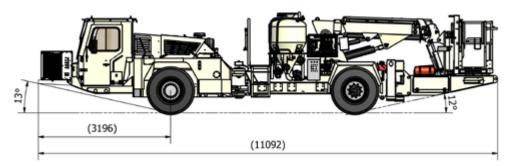


Dimensions



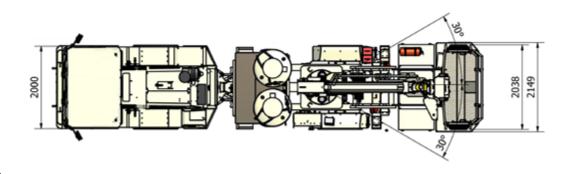
SIDE VIEW

Basic machine



SIDE VIEW

Machine with options and enclosed cabin



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TOP VIEW

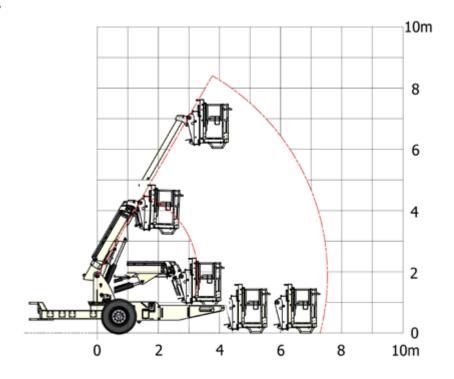
| DIMENSIONS | |
|------------------|----------|
| Length | 10395 mm |
| Width | 2149 mm |
| Height | 2400 mm |
| Wheel base | 4450 mm |
| Track | 1650 mm |
| Ground clearance | 360 mm |

| TURNING RADIUS | |
|-------------------|--------------------|
| Outer Inner | 7685 mm 4909 mm |
| WEIGHT | |
| Operating weight: | 18 000 kg |

Normet reserves the right to change this specification without further notice.

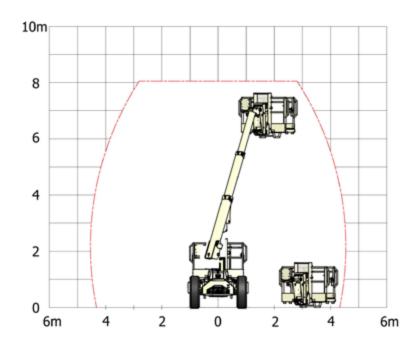


Dimensions



BOOM REACH

Lateral and vertical



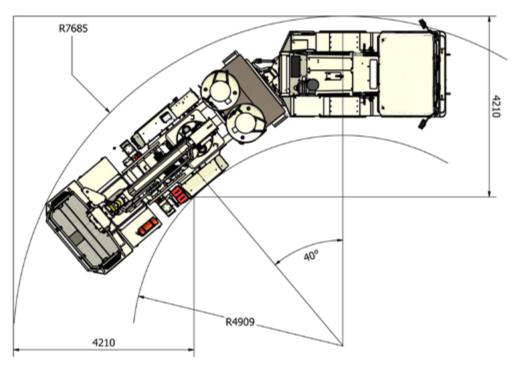
BOOM REACH

Lateral and vertical

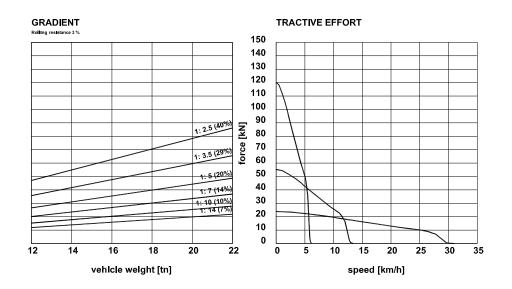
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Dimensions and Tractive efforts



TURNING RADIUS



MERCEDES-BENZ OM 904 LA 110 kW Performance curve 4800030

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