



Features

Charmec LF 605 D (long end model) charger with diesel hydraulic drive is designed for face and production charging in underground mines and tunnels up to 65 m² cross sections where max face height is 8.4 m.

Place for external emulsion kit is located in the middle the unit. 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.

Liquid cooled turbo charged Mercedes-Benz OM 906 LA, 170 kW/2200 rpm with engine & exhaust brakes, TIER 3 approved engine provides clean and efficient operation and gives maximum speed of 19 km/h and 9 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 performances indicated in this document are valid at sea level.

Technical specification**NBB3S BASKET BOOM**

2-men basket
Lifting capacity 500 kg
Boom lift -18°...+ 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 906 LA,
170 kW/2200 rpm, with engine & exhaust brakes,
TIER 3 approved

EXHAUST SYSTEM

Catalytic exhaust gas purifier and muffler

TRANSMISSION

Dana 32 000 series power shift with pump drive group
3 speeds forwards and reverse
4-wheel drive
Lock up converter

AXLES

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

PERFORMANCE

1st gear max.	5 km/h
2nd gear	11 km/h
3rd gear	19 km/h
Max. tractive effort	165 kN
Max speed in 1:7 inclined tunnel	9 km/h
Performance curve	100003433

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

14.00 - 24 PR 28

FUEL TANK

Capacity 140 L

HYDRAULIC SYSTEM

Variable displacement pump system,
190 bar, 135 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
LED driving lights (4 + 2 pcs)
LED working lights (2 + 2 pcs)
LED working lights in basket (2 pcs)
LED parking, brake and indicator lights
LED side lights; amber
Side reversing LED lights
Rotating beacon; amber
Wire harness (self extinguishing) with tinned wires and water tight conduits

DRIVER'S COMPARTMENT

Open 2-man cabin FOPS/ROPS approved
3 different mounting heights for cabin
Air suspended T-back seat for driver and passenger 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
CAN Cockpit, Master Gauge:

- Tacho, rpm
- Operating hours
- Fuel level
- Transmission temperature
- Cooling water temperature

MACHINE CONNECTIVITY

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

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

DRIVER'S CABIN

Enclosed cabin, FOPS/ROPS

Air suspended T-back seat for driver and passenger

MACHINE CONNECTIVITY

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

ENGINE

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

OTHER

Warning lights, 1 unit:

- Rotating beacon; red
- Rotating beacon; blue

Additional equipment

SUSPENSION

Front axle suspension

- Hydraulic front support legs

FOR ENCLOSED CABIN

CD/Radio system

Cabin ventilation:

- Cabin heating
- Air conditioning

FOR NBB BASKET

Safety bar

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) 43 W

Boom suspension

FIRE SUPPRESSION SYSTEM

Fogmaker: Manually actuated

Fogmaker: Automatically actuated

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

Oil evacuation kit with sample points

Extra hand held fire extinguisher (12 kg)

Hydraulic front support legs

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

2 wheel chocks with brackets

Reversing camera

Spare wheel

230l water tank on cabin roof

Hand pump for oil filling

Grounding chains 2 pcs

Emergence warning triangles 2 pcs

Driving direction lights (Red & Green)

Pressure washer

Brigade 72 h recording camera system with vandal proof box maintenance tools

Service

OPERATIONAL SPARE PARTS

A complete parts package to ensure your machine runs with optimal uptime.

After commissioning of your new Normet equipment, the following maintenance & critical spares are typically recommended to support and service your machine:

- Filters, belts
- Sensors, work lights, solenoid coils and fuses
- Sliding parts, bearings, cylinders, seals & pins
- Hoses including concrete, charging & hydraulic
- Nozzles & tips
- TamCrete EasyClean - nontoxic protective agent
- Pistons and seal kits
- Guide rollers and bushes

Note: The usage and consumption of parts may vary depending on the operating environment.

EXTENDED WARRANTY

Standard Normet equipment warranty is 2000 operation hours or 12 months (whichever is reached first). Extended warranty for your Normet equipment can be provided with service agreement- conditions apply.

TRAINING AND EXPERTISE SERVICES

Need training before your machine goes into service or any stage during its working life? The Normet Academy and our highly skilled technicians can provide all your expert training needs including...

Product training:

Operation and Maintenance
Automation -NorSmart/Nordoser
Electric, hydraulic and mechanical fundamentals
Trouble-shooting and fault finding

Process & operator improvement audit for:

Concrete spraying - practical or simulated
Charging
Scaling - practical or simulated

Audit services to improve:

Equipment performance, machine availability, safety & quality.

SERVICE AGREEMENTS

Parts supply
Periodic fleet inspection
Preventative maintenance
Maintenance Supervision
Fleet availability

ELECTRONIC MANUALS

LinkOne electronic spare parts and instruction manuals

EQUIPMENT - COMMISSIONING & START UP SERVICES

Operator Training

- Class room training
- Practical training

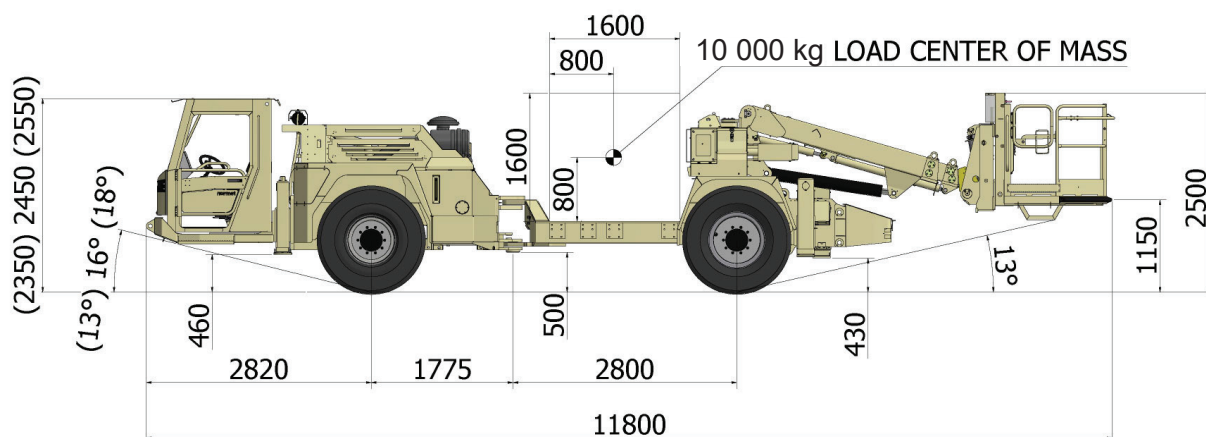
Maintenance & Repair Training

- Class room training
- Practical training

Commissioning

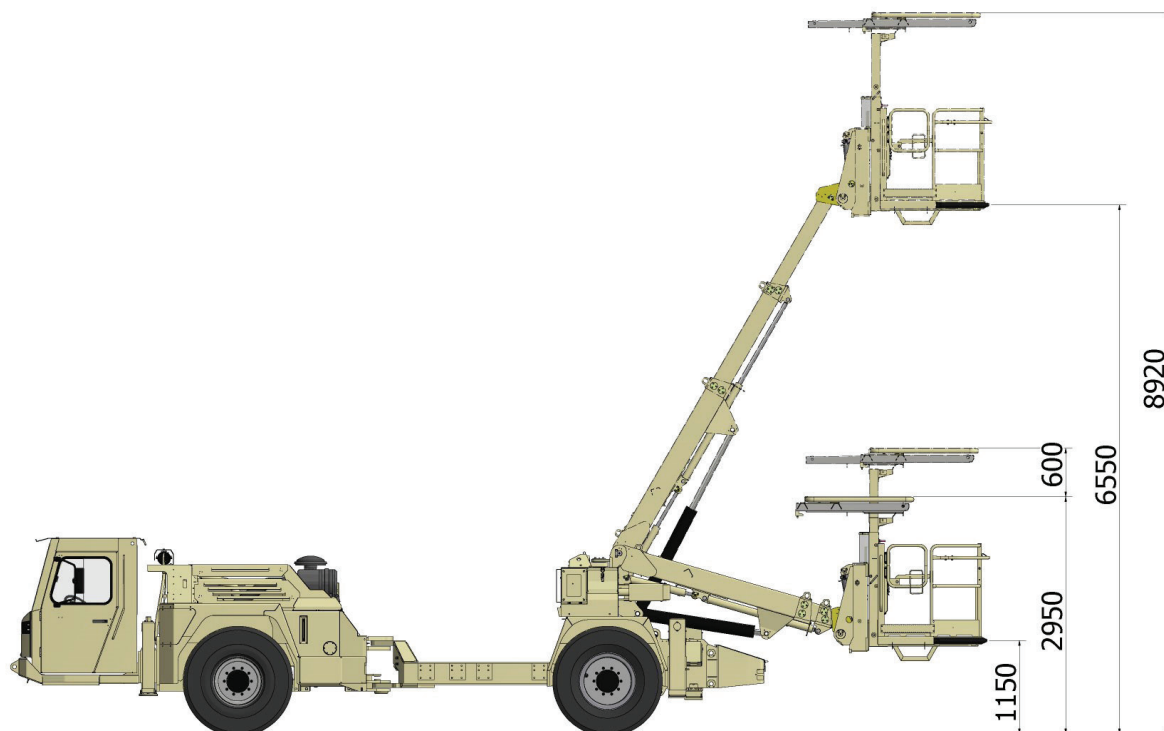
- Receiving inspection

Dimensions



SIDE VIEW

Basic machine



SIDE VIEW

Machine with enclosed cabin and additional equipment.

DIMENSIONS

Length	11800 mm
Width	2310 mm
Height	2450 mm
Wheel base	4575 mm
Ground clearance	430 mm

TURNING RADIUS

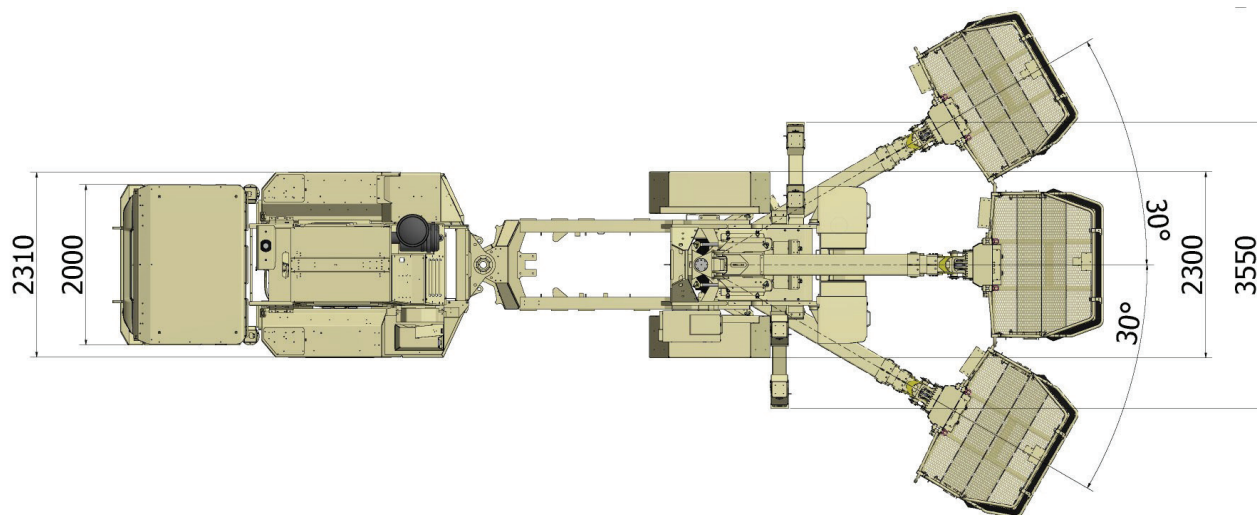
Outer	8500 mm
Outer with 10 degree boom slew	8000 mm
Inner	5000 mm

WEIGHT

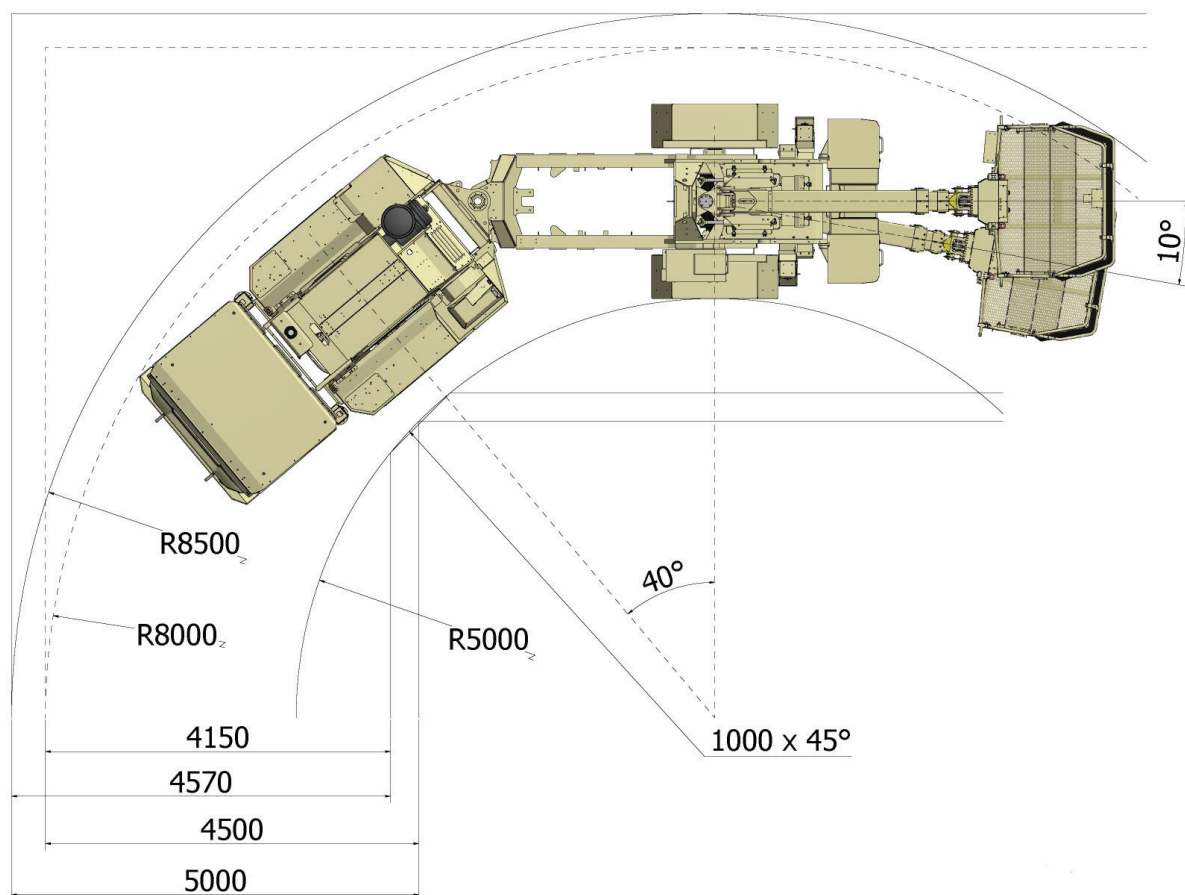
Operating weight:	
• Empty	18 000 kg
• With max load	29 000 kg

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

Dimensions



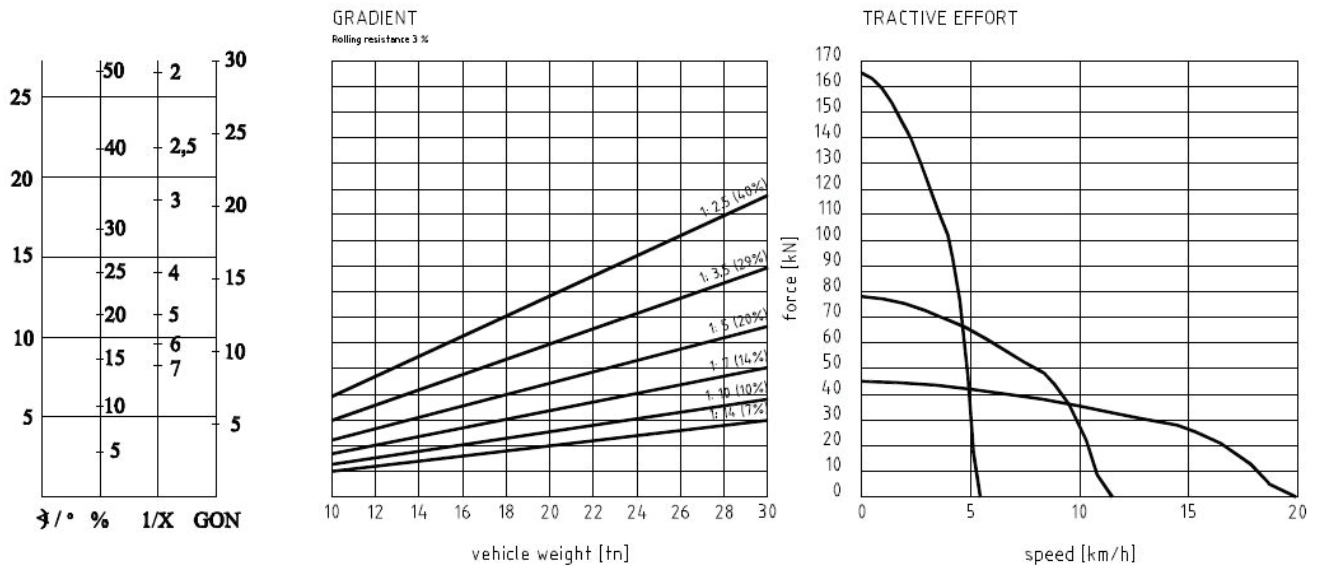
TOP VIEW



TURNING RADIUS

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

Tractive efforts



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