

normet

Multimec SF 060

Technical data sheet
100064312
11.06.2014

AUSTRALIA



Pictured machine may include options and additional equipment.

Features

Multimec provides an innovative system for material transport in mines: a multipurpose system that allows the operator to perform several jobs with only one vehicle.

The Multimec system consists of a series of cassettes, each for a different purpose, that fit on the common carrier. The rugged load handling device means the carrier can switch cassettes in less than one minute.

The powerful liquid cooled turbo charged 90 kW TIER 3 approved engine provides clean and efficient operation and gives maximum speed of 9 km/h fully loaded in upward inclined 1:7 tunnel. In horizontal tunnel the maximum speed is 25 km/h.

Vehicle has optional front axle suspension system that improves driving safety and comfort and reduces fatigue. The suspension system reduces vibration from wheels to the cabin and improves handling of the vehicle. The suspension system gives efficiency and speed to vehicle usage, with safety and comfort for the passengers and the driver.

The new Normet FOPS and ROPS approved safety cabin provides superior visibility and comfortable compartment for the driver and the passenger. Cabin is designed for safe and easy entry and exit. Door openings are wide and handrails and non-slip steps are correctly positioned. Dashboard is easy and simple to use. New multifunctional display (MID) provides driving information (speed, RPM, temperatures etc.) and information can be recorded for analysis. Enclosed cabin provides noise level < 75 dB ensuring safe and comfort driving.

Vehicle layout allows easy access to all service points, all daily checks can be done from the ground level.

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

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Technical specification

CASSETTE HANDLER

Carrying capacity 6000 kg
Lifting mechanism for cassettes

ENGINE

Liquid cooled turbo charged MB OM 904 LA,
90 kW/2200 rpm, TIER 3 approved

EXHAUST SYSTEM

Catalytic exhaust gas purifier and muffler

TRANSMISSION

Dana 20 000 series powershift with pump drive group
3 speeds forward and reverse
4-wheel drive

AXLES

Planetary type
Dana 112
Load end axle fixed
Engine end axle oscillation +/- 10°

TYRES

10.00 - 20 PR 16

PERFORMANCE

1st gear max.	5 km/h
2nd gear	10 km/h
3rd gear	25 km/h
Max. tractive effort	90 kN
• Empty	12 km/h
• Fully loaded	6 km/h
Performance curve	4800032

BRAKES

Service brake: hydraulically powered two-circuit oil immersed multidisc brakes in both axles
Safety/Parking brake: spring applied hydraulically released fail-safe -type brake. Brake test possibility in cabin

STEERING

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

FUEL TANK

Capacity 112 L

HYDRAULIC SYSTEM

Variable displacement pump system
Pressure setting 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
Halogen driving lights (4 + 2 pcs)	70 W
Halogen work lights (2 + 2 pcs)	70 W
Halogen work lights on work platform (2 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 2-man cabin FOPS/ROPS approved
Air suspended T-back seat for driver and passenger
Seats with retractable lap seat belt
Forward and side seating for the driver with two sets of pedals (brake and accelerator)
MID 070 S Multifunctional Display with:

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

GREASING SYSTEM

Centralized grease fittings for the carrier

OTHER

Fast fuel filling system: Wiggins
9 kg hand held fire extinguisher ^(A)
Standard symbol and text labels
Reversing camera
Oil evacuation kit with sample points

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Optional equipment

DRIVER'S CABIN

Enclosed cabin ROPS/FOPS

OTHER

LED driving lights (4 + 2 pcs) 18 W

LED work lights on cabin (2 + 2 pcs) 43 W

Warning lights, 1 unit:

- Rotating beacon; red
- Rotating beacon; blue

Additional equipment

SUSPENSION

Front axle suspension

FOR ENCLOSED CABIN

CD/Radio system

Cabin ventilation: Air conditioning

FIRE SUPPRESSION SYSTEM

AFFF fire suppression system ^(A)

GREASING SYSTEM

Automatic lubrication system for carrier: Lincoln

AIR COMPRESSOR

4 m³/min hydraulic driven compressor on front rack

OTHER

Two Hand Held Fire Extinguishers 4.5 & 9kg ^(A)

Hydraulic front support legs

Extra warning lights:

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

Radio and enclosure ^(A)

2 wheel chocks with brackets

Spare wheel with tyre

Hydraulics for mixer cassette

0.4 m³/min compressor for Fuel / Lube cassette

CASSETTES

Base cassette

C100 Material cassette

C125 Crane cassette

C300 Mixer cassette

C100 Workshop cassette

C350 Lube cassette

C350 Water cassette

C350 Fuel Cassette

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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.

Spare parts package B: Available for 3000 h of use*. Include 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.

NOTE! after/during Start up / Commissioning as additional training days these are cheaper.
In general training reduces operation costs.

Product training:

Operation and Maintenance

NorSmart

Foundation of electrics, hydraulics
and mechanics

Audit

Process training:

Concrete spraying

Charging

Scaling

Process audit

AUDIT SERVICES

To improve machines performance

To improve your processes performance and quality

SERVICE CONTRACTS

Spare parts supply programmes

Scheduled inspection programmes

Supervision programmes

Periodic maintenance programmes

Machine usage programmes

LINK ONE

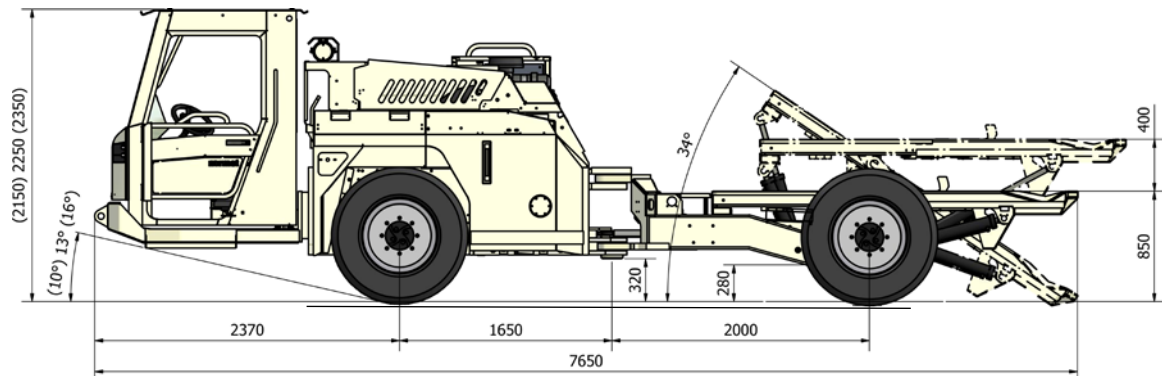
Link One electronic spare part manuals

WARRANTY SERVICES

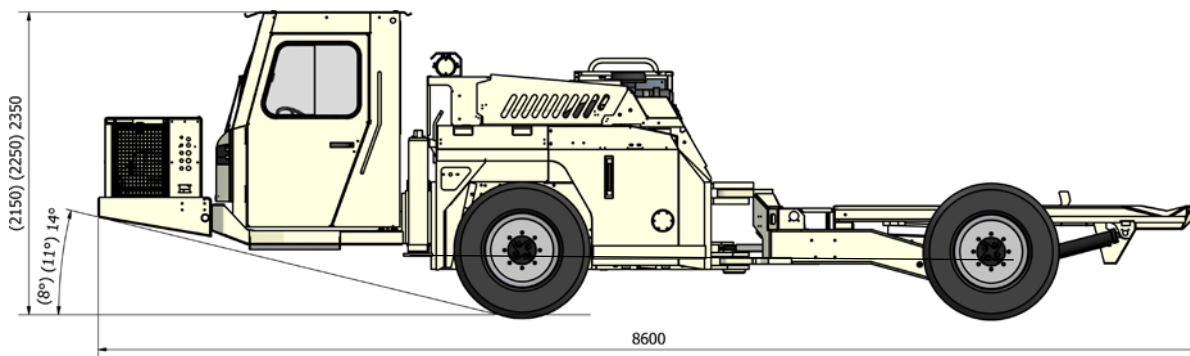
Extended warranty

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Dimensions



SIDE VIEW
Basic machine



SIDE VIEW
Machine with options and additional equipment

DIMENSIONS

Length	7800 mm
Width	1800 mm
Height	(+/- 100 mm) 2250 mm
Wheel base	3650 mm
Track	1500 mm
Ground clearance as shown	280 mm

TURNING RADIUS

Outer	6440 mm
Inner	4000 mm

WEIGHT

• Operating	9500 kg
• With max load	15 500kg

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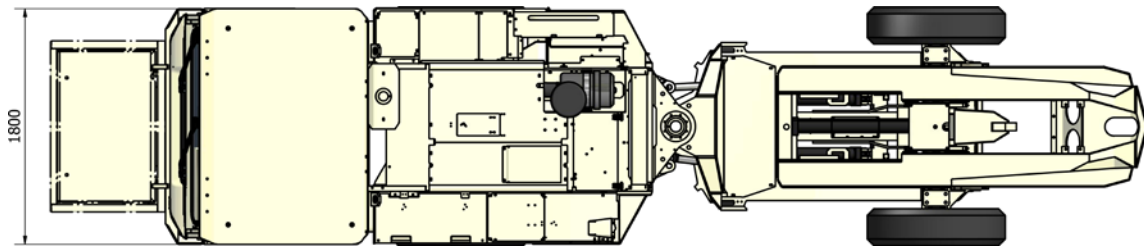
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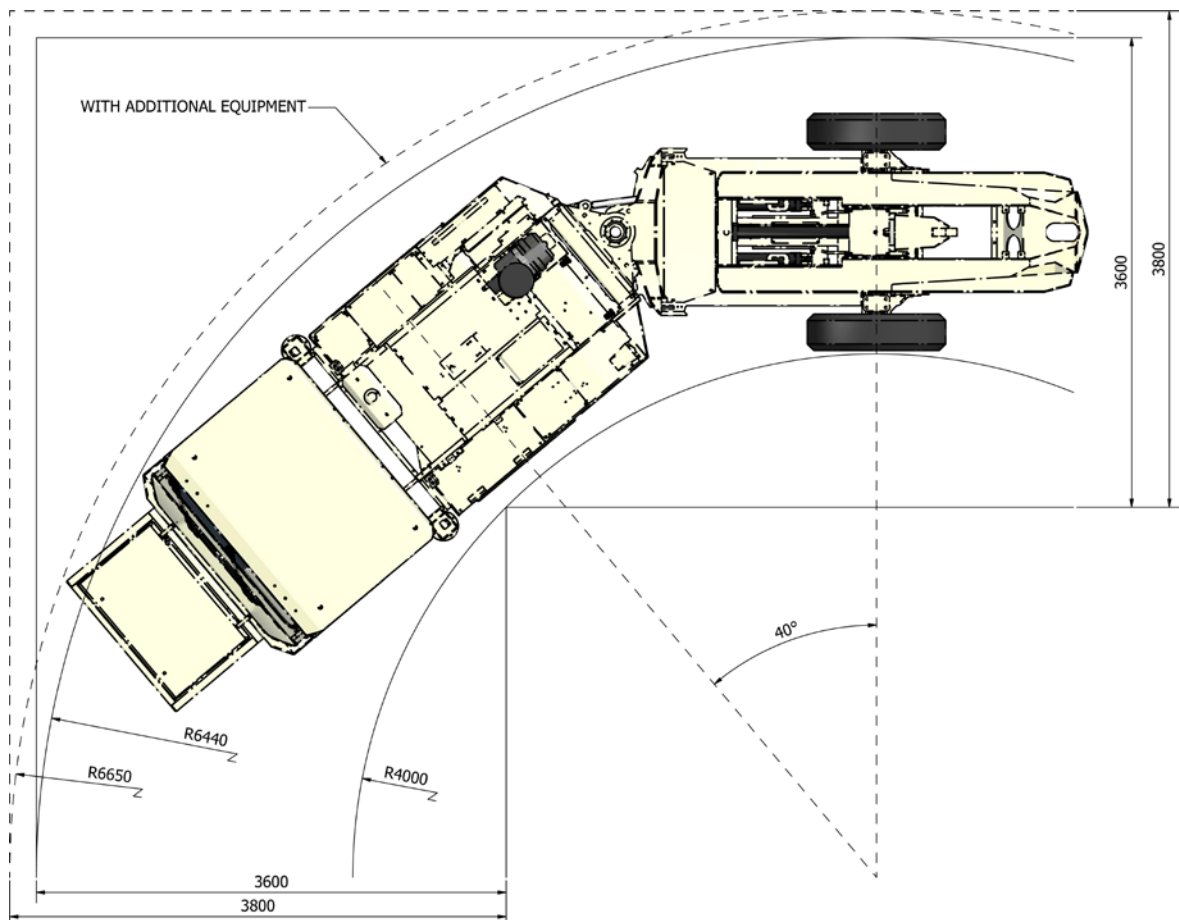
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Dimensions



TOP VIEW

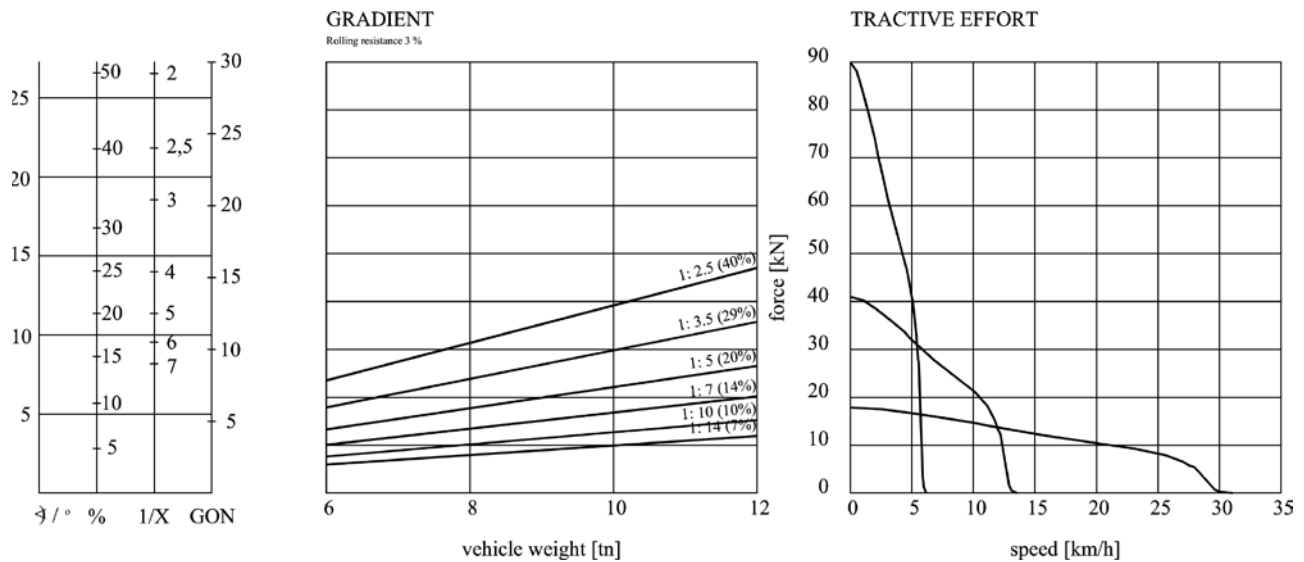


TURNING RADIUS

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Tractive efforts



MERCEDES-BENZ OM 904 LA 90 kW
Performance curve 4800032