

# normet

## Utimec LF 100 Dumper

Technical data sheet  
100089284  
31.01.2017



Pictured machine may include options and additional equipment.

### Features

Utimec LF 100 Dumper is part of the Normet's Heavy Duty L-series. Utimec LF 100 Dumper is typically used in tunneling projects with medium size tunnel cross sections. The dump box capacity is 12 m<sup>3</sup> and the tipping angle of the box is 65 degrees. The maximum height during tipping is 4.6 m.

The powerful liquid cooled turbo charged Mercedes-Benz 170 kW Tier3 classified engine option provides clean and efficient operation. Maximum speed in horizontal tunnel is 30 km/h. The fully reversible 4 WD with high traction capability ensures safe and sure movement in difficult ground conditions. Efficient hydraulic dual-circuit oil immersed multi-disc brakes provide safe driving and braking.

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 driver and the passenger.

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.

**Technical specification****DUMP BUCKET**

Volume 12.5 m<sup>3</sup>  
Tail gate

**ENGINE**

Liquid cooled turbo charged Mercedes-Benz OM 906 LA, 170 kW/2200 rpm, TIER 3 approved  
Exhaust brake

**EXHAUST SYSTEM**

Catalytic exhaust gas purifier and muffler

**TRANSMISSION**

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

**AXLES**

Motor end axle

- Planetary type
- Dana 113
- Axle oscillation

+/- 7°

Load end axle

- Planetary type
- Dana 114
- Fixed axle

**TYRES**

Bridgestone VCHS 14.00 - 24 PR 24

**PERFORMANCE**

|               |         |
|---------------|---------|
| 1st gear max. | 5 km/h  |
| 2nd gear max. | 11 km/h |
| 3rd gear max. | 18 km/h |
| 4th gear max. | 30 km/h |

**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

**STEERING**

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

**FUEL TANK**

Capacity 140 L

**HYDRAULIC SYSTEM**

Variable displacement pump system,  
190 bar, 95 L/min/2200 rpm  
Hydraulic oil tank capacity 240 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 load end (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 driver's seat  
Seat 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**

12 kg hand held fire extinguisher  
Standard symbol labels

**Optional equipment****DRIVER'S CABIN**

Enclosed cabin  
Air suspended T-back seat for driver and passenger

**EXHAUST SYSTEM**

Particle filter for Mercedes-Benz OM 906 LA, 170 kW

**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:

- Cabin heating
- Air conditioning

**FIRE SUPPRESSION SYSTEM**

Fogmaker: Manually actuated  
Fogmaker: Automatically actuated  
Ansul: Manually actuated  
Ansul: Automatically actuated  
Tempus: Manually actuated (Non CE)

**GREASING SYSTEM**

Automatic lubrication system for carrier: Lincoln

**AUXILIARY BRAKING SYSTEM**

Hydraulic retarder

**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  
Toolbox and maintenance tools  
2 wheel chocks with brackets  
Reversing camera  
Spare wheel with tyre  
WLAN connection

## 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**

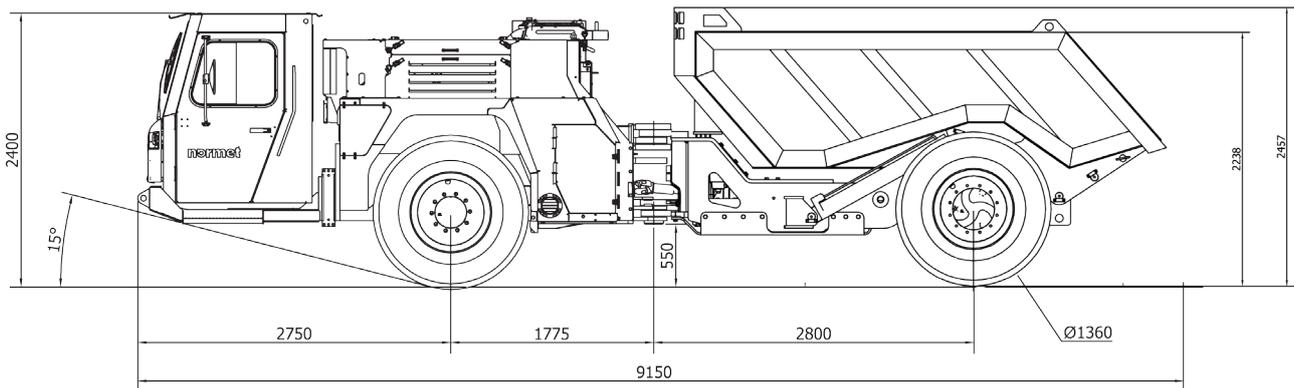
### LINK ONE

Link One electronic spare part manuals

### WARRANTY SERVICES

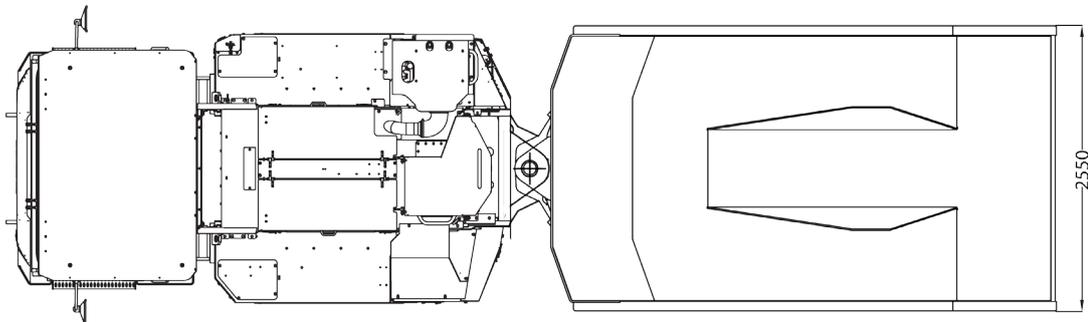
Extended warranty

### Dimensions



### SIDE VIEW

Machine with options



### TOP VIEW

#### DIMENSIONS

|                  |         |
|------------------|---------|
| Length           | 9150 mm |
| Width            | 2550 mm |
| Height           | 2400 mm |
| Wheel base       | 3775 mm |
| Track            | 1950 mm |
| Ground clearance | 500 mm  |

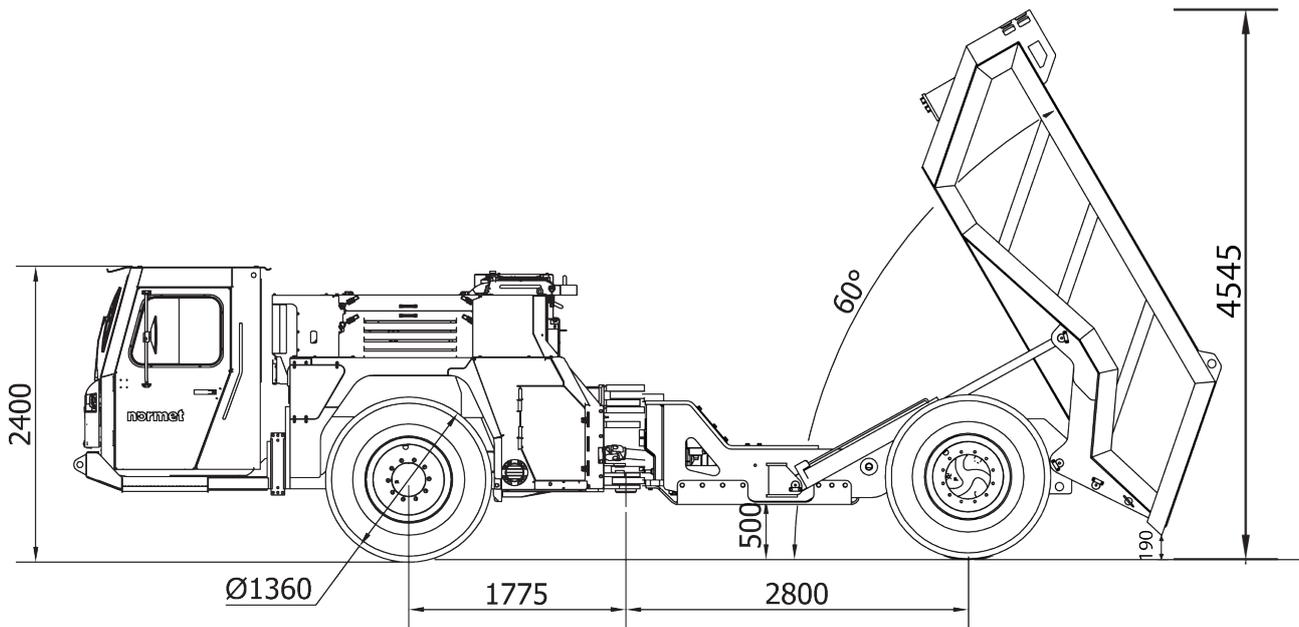
#### TURNING RADIUS

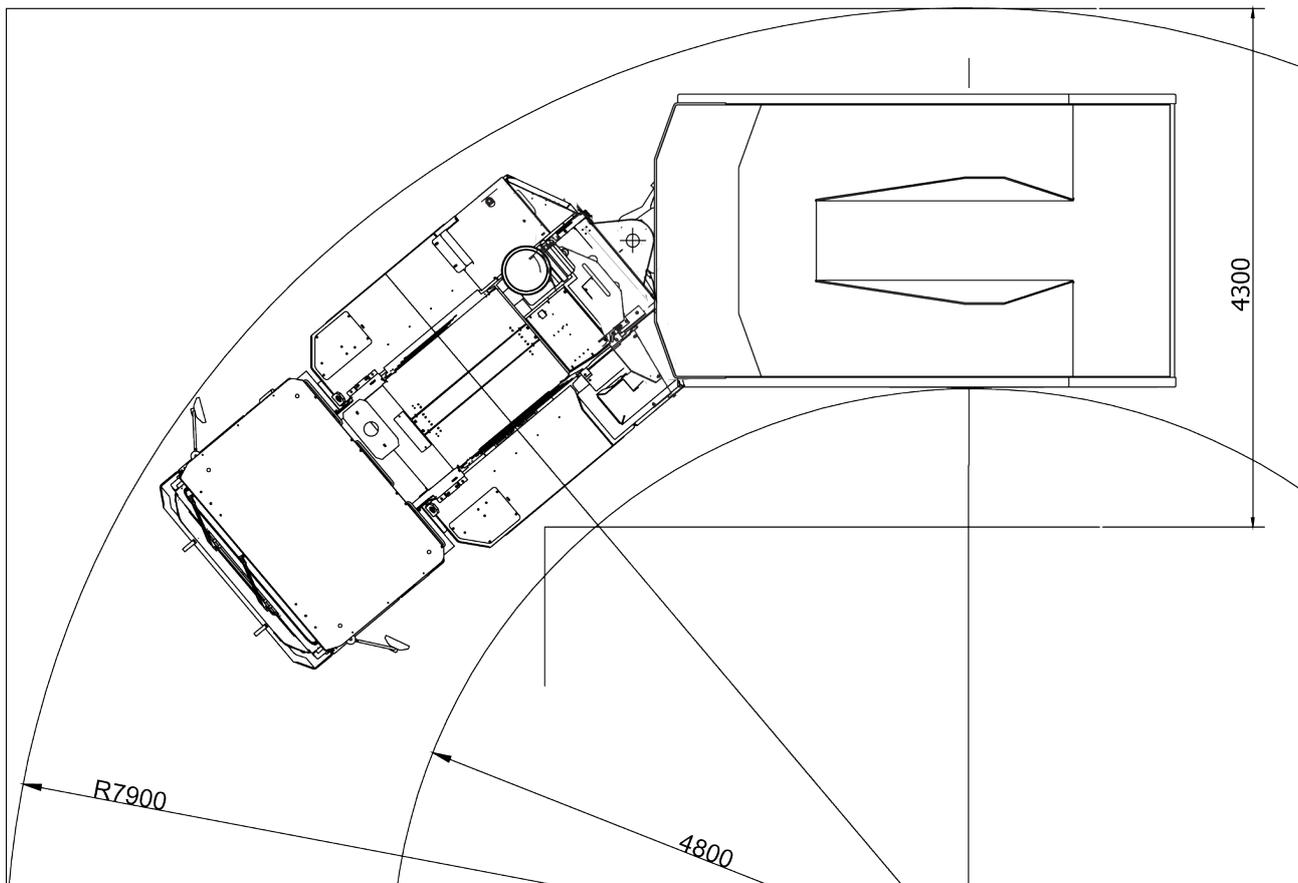
|       |         |
|-------|---------|
| Outer | 7900 mm |
| Inner | 4800 mm |

#### WEIGHT

|                   |           |
|-------------------|-----------|
| Operating weight: |           |
| • Empty           | 17 000 kg |
| • Fully loaded    | 35 000 kg |
| Max. payload      | 18 000 kg |

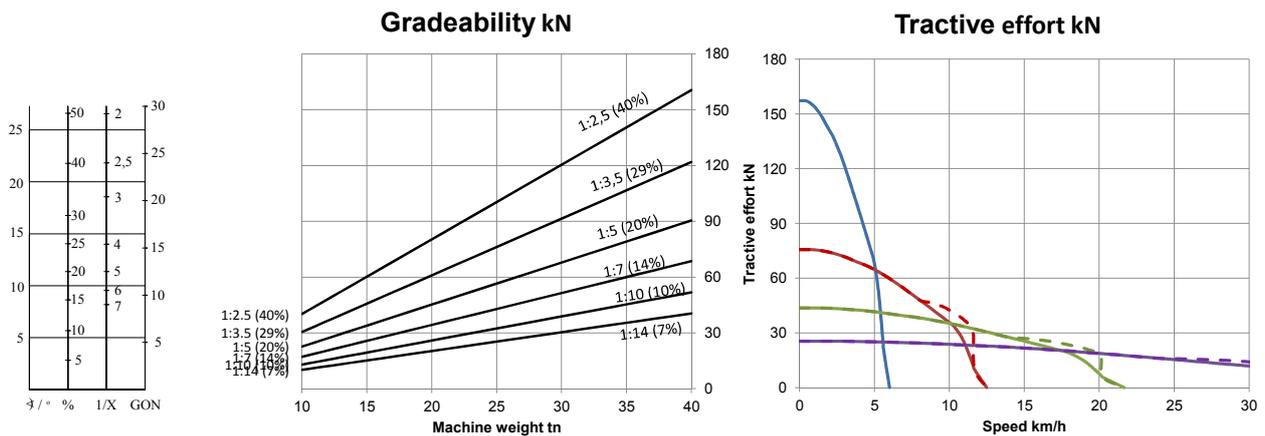
Normet reserves the right to change this specification without further notice.

**Dimensions****TIPPING VIEW**

**Dimensions****TURNING RADIUS**



### Performance



**TRACTIVE EFFORT**  
Mercedes-Benz OM 906 LA