



Utilift SF 330

INTRODUCTION

Utilift SF 330 Scissor Lift with lifting capacity up to 3 tonnes and max. platform height of 3.5 m is designed to provide a safe work platform for all kinds of installation works in tunnels up to 5.5 m high.

Typical applications are fan installations, ventilation ducting, electrification works and piping for air and water services. Optional side extensions provide complete drift coverage from single setup practically in all kinds of mine headings. The works can be accomplished safely, efficiently and comfortably from the level work deck, elevated to a optimum work height.

POWER TRAIN

S-series units have powerful 4-cylinder liquid cooled turbo-charged engine, which power range is 96 kW. Available emission standards are Tier 3 / Stage IIIA that provide clean and efficient operation.

Machine is equipped with Dana hydrodynamic transmission and planetary type axles which have hydraulically powered dual-circuit oil immersed multidisc service brakes. Moreover, axles have spring applied hydraulically released fail-safe -type parking/safety brake.

SAFETY AND USABILITY

Vehicle has an optional front axle suspension system, which improve safety, driving comfort and increases component lifetime.

Normet's FOPS and ROPS approved safety cabin provides superior visibility and comfortable compartment for the driver and the passenger. Cabin controls are easy and ergonomic to use, and the multifunctional display (MID) provides driving information (speed, RPM, temperatures, safety warnings & alarms etc.), which can be recorded for further analysis. Enclosed cabin provides low noise level ensuring safe and comfortable driving.



Electric system is designed for harsh underground environment. System consists of self-extinguishing wire harnesses with tinned wires, water tight conduits and all exposed components are minimum IP65 protection class. In addition, vehicle layout allows easy access to all service points, all daily checks can be done from the ground level.

TECHNICAL SPECIFICATION

LIFTING PLATFORM

Dimensions:

- 1800 X 3200 mm

- 1800 X 3200 mm

Side extensions 730 mm

Lifting capacity 3000 kg

Max. lifting height 3500 mm

Start/stop from platform

Battery operated emergency pump

Rear handrails of platform

Standard gate to climb in platform

Safety monitoring system of MEWP:

- Dangerous movement preventing system (mandatory in NAP, NAS, CE area)
- Dangerous movement warning system with overload monitoring

ENGINE AND TRANSMISSION

Deutz TCD 2012 L4, 96 kW/2300 rpm, Tier 3 / Stage IIIA approved

Catalytic exhaust gas purifier and muffler

Fuel tank capacity 110 l

Dana 20000 series powershift transmission

3 speeds forward and reverse

4-wheel drive

Manual gear selector

PERFORMANCE

Tramming speed (horizontal): 26 km/h

Lateral gradient for tramming (continuous) 4°

Longitudinal gradient for tramming (continuous) 9°

Lateral gradient for operation 3°

AXLES AND BRAKES

Load end axle:

Dana 112 series fixed

Engine end axle:

Dana 112 series

- +/- 8° Oscillation
- Hydro-pneumatic suspension and +/- 8° oscillation

Service brake: hydraulically powered dual-circuit oil immersed multidisc brakes in both axles

Safety/Parking brake: spring applied hydraulically released fail-safe-type brake

Normet reserves the right to change this specification without further notice

TYRES AND RIMS

- Nokian Tyres 10.00–20" with standard rims
- Nokian Tyres 10.00–20" with NDT inspected rims

STEERING

Orbitrol type hydraulic frame steering

Frame articulation +/- 40°

HYDRAULIC SYSTEM

Variable displacement pump system:

190 bar, 135 l/min at 2200 rpm

Hydraulic oil tank capacity 115 l

24 VDC ELECTRICAL SYSTEM

Main switch:

- Mechanical switch in battery box
- Electric switch with control in cabin and service switch in battery box
- Electric switch with control in cabin, start isolator and service switch in battery box

LED driving and indicator lights

LED work lights

LED side lights (left/right):

- White / White
- Green / Red
- Red / Green

Warning LED light:

Color

- Amber
- Blue
- Red
- Green (n/a with rotating light pattern)
- White (n/a with rotating light pattern)

Light pattern

- Strobe
- Rotating

DRIVER'S COMPARTMENT

Cabin type:

- Open cabin FOPS/ROPS approved
- Enclosed cabin FOPS/ROPS approved with sliding rear window

Driver's seat and seat belt:

- Air suspended T-back seat with 3-point seat belt
- Air suspended heavy duty seat with 3-point seat belt

Pictures may include options and additional equipment.

Seat belt safety interlock for driver:

- Warning indicator in display
- Safety brake application

Cabin door interlock switches with safety brake application

Passenger's seat:

- T-back seat with 3-point seat belt
- Heavy duty seat with 3-point seat belt
- 2 person seat with fixed lap seat belts

Throttle and brake pedal layout:

- Front and side facing pedals with seat swivel
- Front facing pedals

Gear lever side:

- On right side of the steering wheel
- On left side of the steering wheel

MACHINE CONNECTIVITY

- Machine connectivity hardware (WLAN/3G/4G/LTE)
- Analytics license (includes connectivity hardware)

TECHNICAL DOCUMENTATION

Standard documents:

Instruction manuals, hard copy 2 pcs:

- English
- Russian
- One of destination EU languages

Spare parts manuals, hard copy 2 pcs:

- English
- Russian

PDF manuals on USB-stick 2 pcs, includes instruction and spare parts manuals

Additional documentation:

- Extra hard copies of manuals
- Extra PDF manuals
- LinkOne WebView electronic manuals
- Other than standard language manuals

OTHER

Powder extinguisher:

- 6 kg
- 12 kg
- Ansul Sentry

Number of extinguishers:

- 1
- 2

Painting and taping:

- Standard painting and taping
- Painting and taping according to customer specifications

Standard support legs at the load end

Text labels in:

- En/Ru/One of destination EU-languages
- Other language

Measurements:

- Noise
- Vibration
- Emissions

ACCESSORIES

PROCESS PRODUCTIVITY

- Front support legs
- Fan rack, Max. diameter of fan 1100 mm, Max. length 2000 mm
- Platform tilt +/- 8° for levelling the platform
- Hydraulic pipe lifters:

Lifting capacity of pipe lifters 350 kg

Stroke length 600 mm

Pipe diameter 70 - 270 mm or pipes with a nominal value from 2½" to 10"

Reduces lifting capacity of platform 400 kg

- Crane Hiab 029:

Lifting capacity 27 kNm, 800 kg/3,4 m

Max lifting mass 995 kg with CE-approved model

Two hydraulic extensions, max reach 3,4 m

Installation on rear frame

Accessories:

- Load monitoring (mandatory for CE approval)
- Load monitoring, radio controller and controls for optional grapple
- Grapple for crane:

Pipe diameter 60 - 440 mm

Max. opening 1040 mm

Radio remote control

Rotator for grapple

Reduces max lifting capacity of crane 80 kg

Only available with CE approved crane with radio controller

- Hydraulic generator 400/230 V 50 Hz, 9.5 / 14.3 A
- 0,4 m³/min compressor with hose reel, air tank and tyre filling pistol
- 4 m³/min hydraulic driven compressor on front rack
- Compressed air inlet on carrier and air outlet with water separator in platform
- Welding kit

Includes welding generator (180 A welding current and 230V/400VAC output voltage) and welder's equipment; mask, gloves, scratch brush and slag hammer

- Toolbox on platform
- Scaling bars with rack

Bar lengths 1.8, 2.4 and 3.0 m

CARRIER PRODUCTIVITY

- Accessories for open cabin:
 - Protective grids
 - Windshield with wipers
- Accessories for enclosed cabin:
 - Audio system
 - Air conditioning with heating
 - Heated mirrors
- 12 V, 18 A power supply in cabin with socket and connector
- Auto engine shutdown during idling
- Engine shutdown delay
- Inlet plug for jump start
- Block heater with interior heater and battery charger 230 V (Interior heater available with enclosed cabin)
- Block heater with interior heater, battery charger, hydraulic oil and filter heaters 400 V (Interior heater available with enclosed cabin)
- Fuel operated pre-heater
- Fast fuel filling system
- Hand pump for filling of hydraulic tank
- Fluid evacuation panel with sampling points
- Automatic lubrication system
- Reversing camera:
 - 1 camera, 1 display
 - 3 cameras, 2 displays
 - 1 camera, 1 display and reversing radar
 - 4 cameras, 1 display with recording support
- Spare rim and tyre
- Toolbox and maintenance tools
- Interior cooling fan
- Wax tape for electric connectors

SAFETY

- Cabin door puddle lights
- Extra warning LED light
 - Color
 - Amber
 - Blue
 - Red
 - Green (n/a with rotating light pattern)
 - White (n/a with rotating light pattern)
 - Light pattern
 - Strobe
 - Rotating
- Fire extinguisher system
 - Dry chemical
 - Ansul A-101
 - Manual
 - Automatic, Checkfire 110
 - Liquid agent
 - Fogmaker (Automatic)
- Gear lockout:
 - Forward:
 - Highest gear locked out
 - 2 highest gears locked out
 - Reverse:
 - Highest gear locked out
 - 2 highest gears locked out
- Front and rear grounding straps
 - Flat cable
 - Chain
- Pump for brake release
 - Electric pump
 - Hand pump
- Redundant brake monitoring system
- Hydraulic pressure monitoring kit
- Methane monitoring system
- Protection guards for tunnel curtains
- Tyre pressure indicators
- Additional wide angle mirrors (n/a with heated mirrors)
- Warning triangles
- Flashlight with charger
- Hearing protectors
- Wheel chocks with brackets

SERVICES

NORMET SERVICES

Normet is committed to servicing its customers all over the world. We provide service from a single machine to an entire fleet. The Normet service offering consists of many different products from delivery of parts and training to fleet performance agreements.

More information check [normet.com](https://www.normet.com):

<https://www.normet.com/en/products-and-services>

For any questions about Normet Services contact local Normet.

<https://www.normet.com/en/contact/>

SPARE PARTS

As a leading global Original Equipment Manufacturer, we are committed to providing a complete solution to your spare parts needs. All of Normet's spare parts are manufactured to the highest possible standards to help maintain the safety and profitability of your projects. Our spare parts improve efficiency and total cost of ownership throughout your operations.

Start a carefree journey with Normet equipment by having the right selection of parts available from the beginning.

Spare part recommendation / Start-up Spare Part package:

Available for the first 2000h*: includes periodical service parts, most common wearing parts and other recommended parts. (*Recommendations are based on average hours that can vary depending on worksite conditions.)

Underground, every part is critical!

More information check <https://www.normet.com>

SERVICE AGREEMENTS

Service agreements are always customized to meet our customer needs, consisting of various Normet service products. The service solution is created together with the customer and the level of an agreement can vary with different support agreements (including e.g. parts, periodical maintenance, on-call services, and audits) up to guaranteed fleet availability or process performance (including e.g. parts, all maintenance activities, operator trainings and process audits).

Note that we can provide Digital solutions with connected equipment.

More information check [normet.com](https://www.normet.com).

TRAININGS

Training services can be tailored to your individual needs and range from equipment service training to process application training.

We offer a sustainable training path from the beginning of your operation to the execution stage of your project.

More information check [normet.com](https://www.normet.com).

COMMISSIONING

Equipment commissioning concerns **equipment familiarization**. This is included as part of Normet vehicle delivery. Safety introduction and operating basics for Normet Equipment. Review of Normet user and spare parts manuals. Hands-on equipment safety device operational training. Ensure product quality and customer satisfaction during handover.

Commissioning includes machinery handover to customers and safety operating principles without technical insights or process application training.

EXTENDED COMMISSIONING

We offer an extended training package on top of standard commissioning. Normet provides extended commissioning services that offer basic insights into maintenance manuals, periodical and daily maintenance, as well as modern operating perspectives to maximize handling efficiency. Safety-oriented training ensures reliable operations for Battery Electric Vehicles and Diesel-Driven based on your vehicle fleet. This cost-effective solution covers the essential aspects of equipment operation, safety, and maintenance schedules.

To ensure continuous and maximized safe operations with your new equipment and to expand your knowledge scale of operations, this option is the most suitable and recommended option for extending your new equipment training. This cost-effective solution covers the essential aspects of equipment operation, safety, and maintenance schedules.

UPGRADES AND MODIFICATIONS

We build our machines to last. We also understand that your needs on the ground can change - and reacting to that change makes a big difference in your productivity. Normet Upgrades & Modifications provide you with access to product improvements that meet your evolving requirements and let you stay one step ahead of the curve.

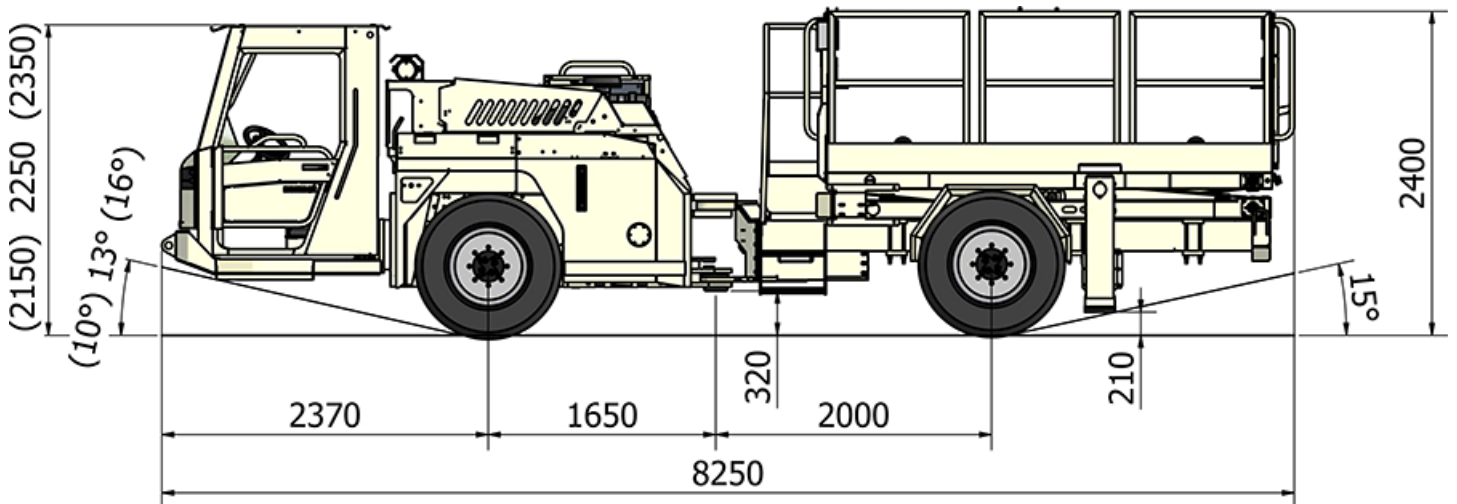
Contact your local Normet office for Upgrade offering to your fleet.

More information check [normet.com](https://www.normet.com).

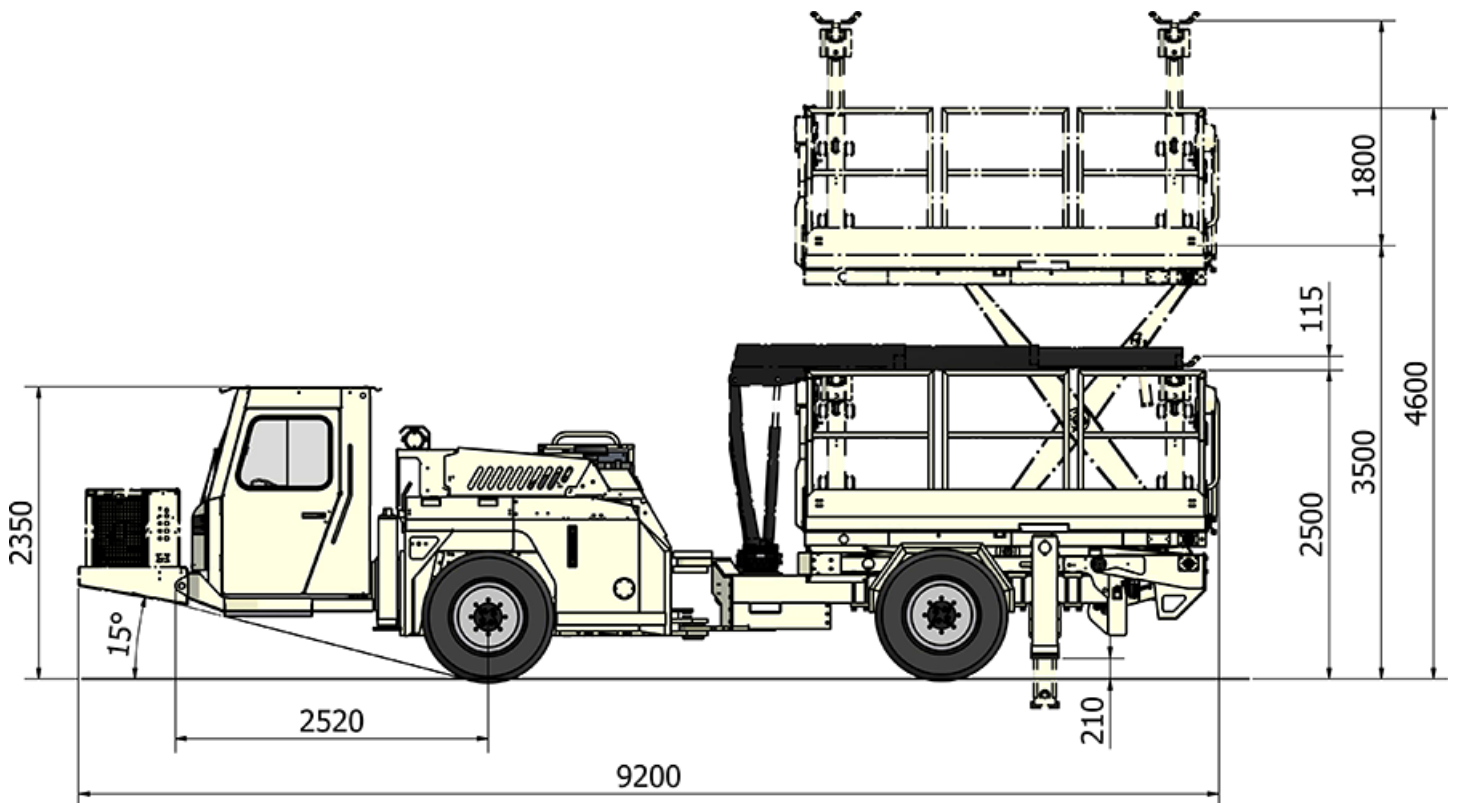
DIMENSIONS

Length	8250 mm	Track	1550 mm
Width	1800 mm	Ground clearance as shown	320 mm
Height	2400 mm	Turning radius outer	6400 mm
Height of cabin	2250 mm	Turning radius inner	4000 mm
Wheel base	3650 mm		

SIDE VIEW – BASIC MACHINE



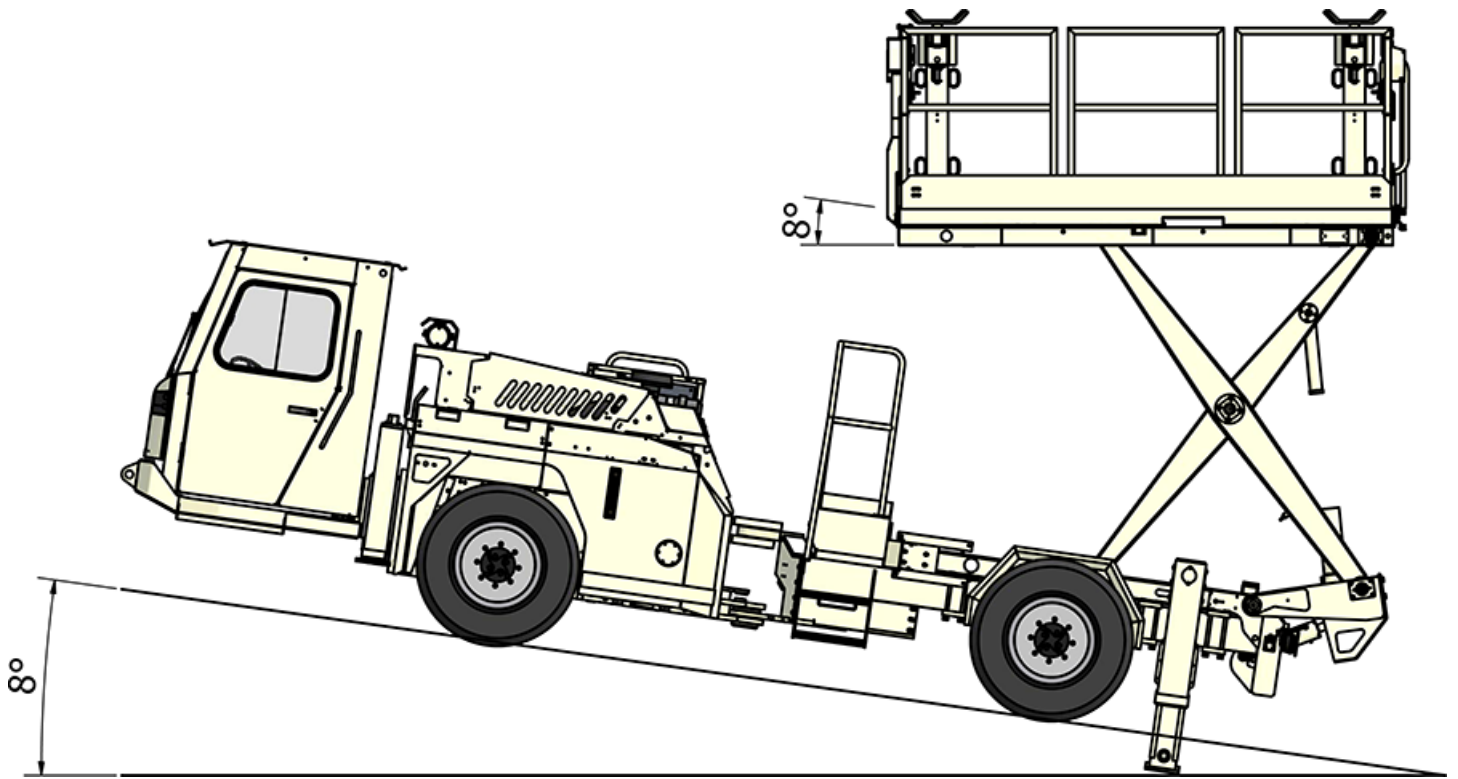
SIDE VIEW – MACHINE WITH OPTIONS



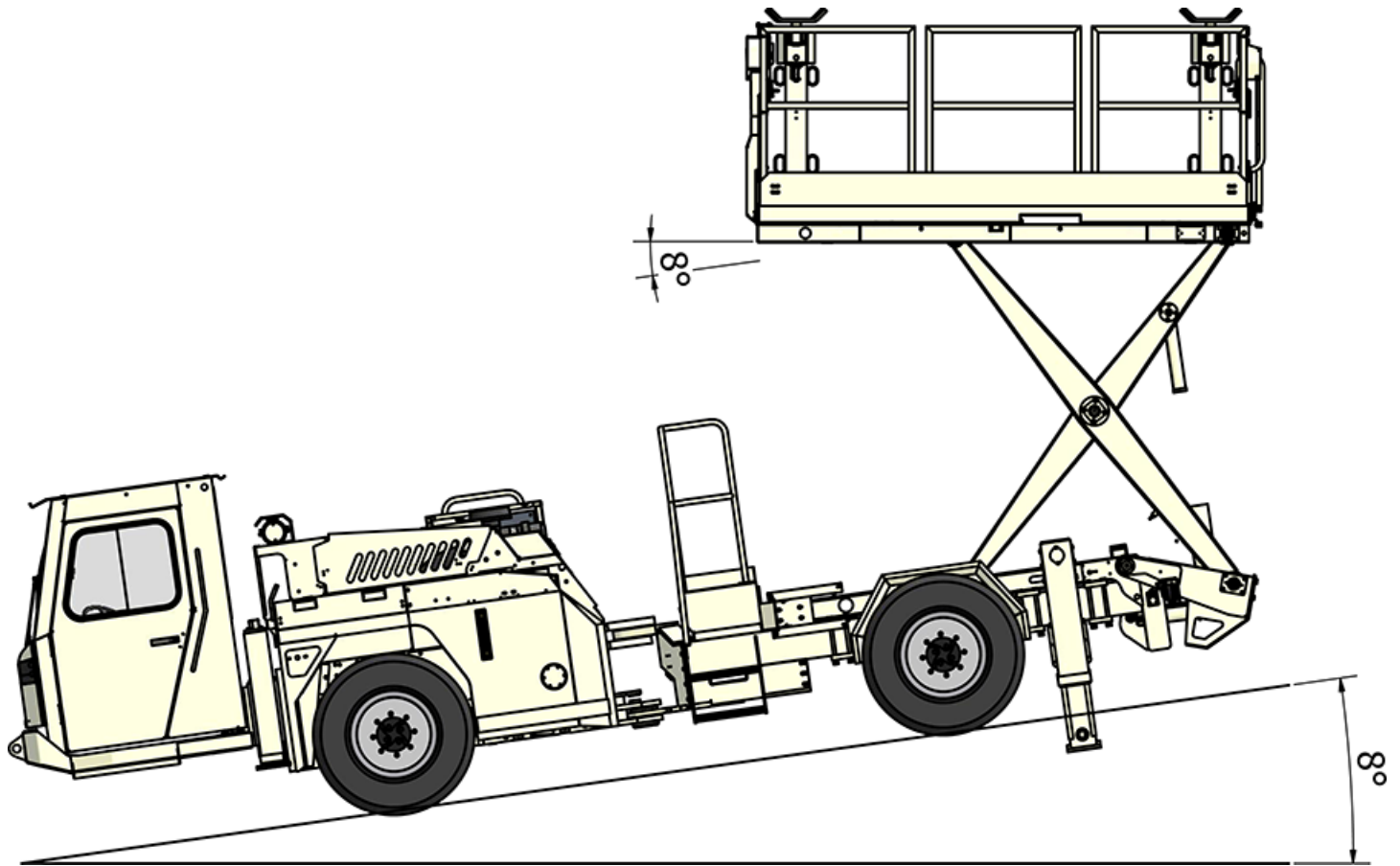
Normet reserves the right to change this specification without further notice

Pictures may include options and additional equipment.

SIDE VIEW - TILT UP

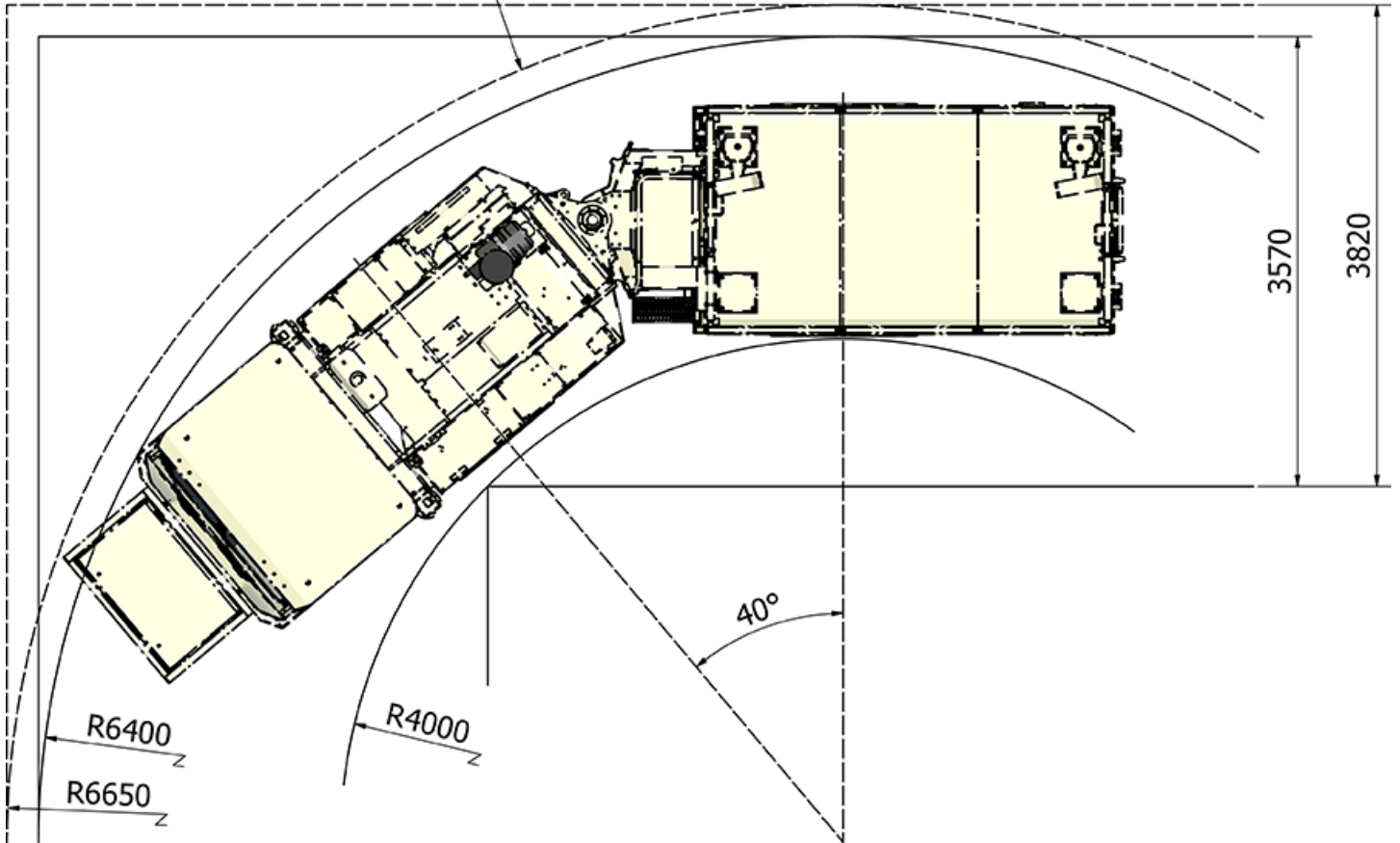


SIDE VIEW - TILT DOWN

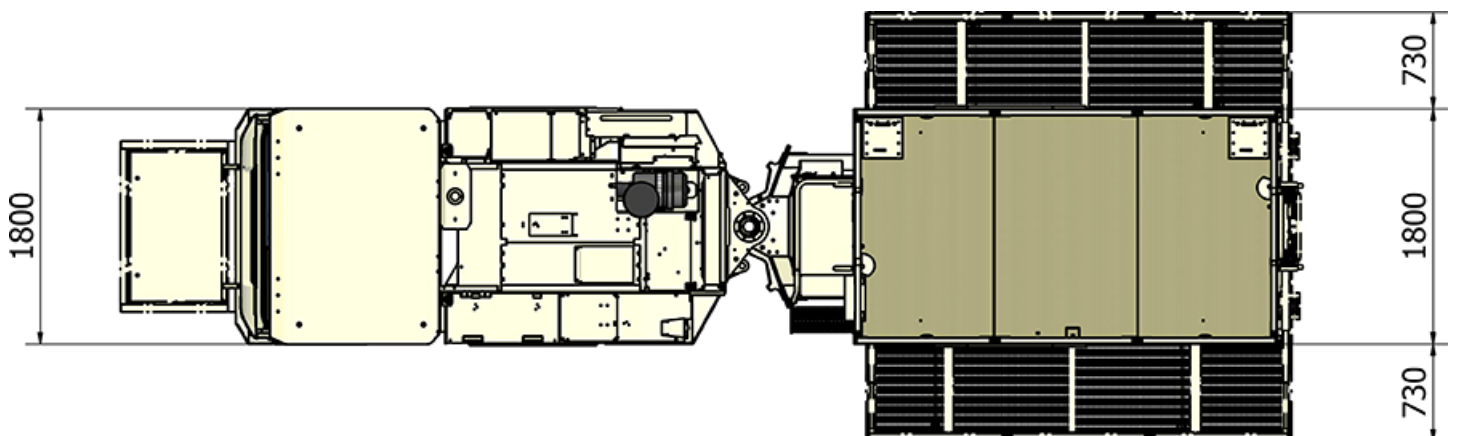


TURNING RADIUS

WITH ADDITIONAL EQUIPMENT



TOP VIEW



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TRACTIVE EFFORTS

OPERATING WEIGHT

Base machine

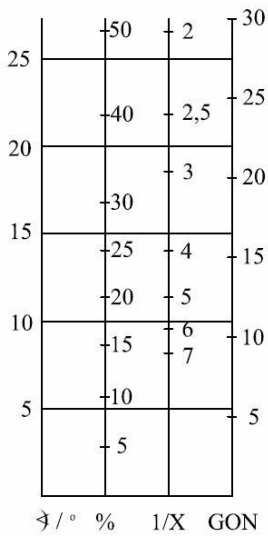
10 200 kg

final machine weight variate in agree with selected options

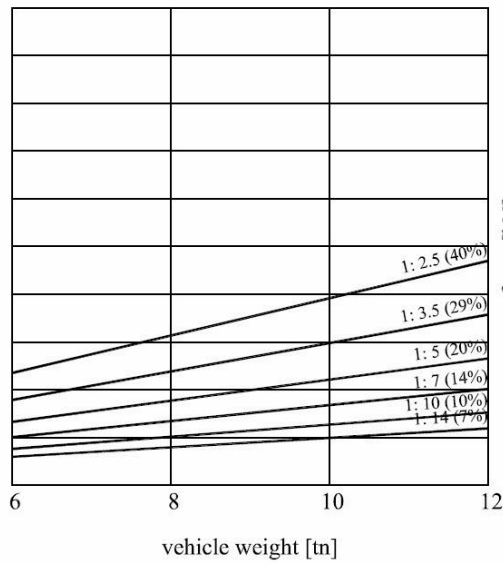
DEUTZ TCD 2012 L4, 96 KW

Performance curve DOC005295

CONVERSION CHART



GRADIENT
Rolling resistance 3 %



TRACTIVE EFFORT

