

EN

MHL
434



115 kW



24.1–25.7 t



max. 10.7 m



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it!



**MHL
434**



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TECHNICAL DATA

Operating weight without attachments

| | |
|---------------------------|--|
| MHL434 F | 24.1–25.7 t |
| Diesel Engine | |
| EU Stage V/ U.S. Tier 4 | EU Stage IIIA/ U.S. Tier 3* |
| Manufacturer and model | Deutz TCD 4.1 L4 |
| Design | 4-cylinder in-line engine |
| Functionality | 4-stroke diesel, common rail direct injection, turbocharged with intercooler, controlled exhaust gas recirculation, diesel particulate filter with continuous regeneration and SCR catalytic converter |
| Engine power | 115 kW |
| Rated speed | 2000 rpm |
| Displacement | 4.1 l |
| Cooling system | Water and charge air cooling with temperature controlled fan speed and reversible fan |
| Exhaust emission standard | EU Stage V/ U.S. Tier 4 |
| Fuel tank | 293 l |
| DEF / Urea tank | 20 l |

Electrical System

| | |
|-------------------|---|
| Alternator | 28 V / 100 A |
| Operating voltage | 24 V |
| Battery | 2 x 12 V / 110 Ah / 750 A (as per EN) |
| Lighting system | 2 x LED headlights, turn signals and tail lights. 6 x LED worklights (cabin front left & right, cabin rear left, counterweight left & right and uppercarriage right). Additional welcome home illumination with remote control, LED light in the engine bay |

Travel Drive

| | |
|--|---|
| Hydrostatic all wheel travel drive with infinitely variable axial piston motor and directly mounted travel brake valves, 2-gear power shift system | |
| Travel speed | 1st gear: max. 5 kph 2nd gear: max. 19 kph |
| Turning radius | 5.5 m |

Swing Drive

| | |
|---------------------------|--|
| Slewing ring | Internally geared double row slewing ring bearing, greasing via automatic lubrication system |
| Drive | 2-stage planetary gear with integrated multi-disc brake |
| Uppercarriage swing speed | 0–7 rpm infinitely variable |
| Slewing lock | Electronically activated |

Undercarriage

| | |
|------------|---|
| Front axle | Planetary drive axle with integrated drum brake, rigidly mounted |
| Rear axle | Planetary drive axle with integrated drum brake, oscillating axle with automatic oscillation lock |

* for low-regulated markets

Undercarriage

| | |
|---------------|--|
| Supporting | Support blade on side of oscillating axle; integrated cylinder protection |
| Tyres | Twin tyres – air inflated without spacers in between 10.00-20 16PR with wireless tyre pressure monitoring system |
| Brakes | |
| Service brake | Hydraulically activated dual-circuit brake system acting on all four wheel pairs, lockable |
| Parking brake | Electro-hydraulically actuated spring-loaded disk brake on the front axle, works on both axles |

Hydraulic System

| | |
|-------------------------|---|
| Max. pump capacity | 330 l/min |
| Max. operating pressure | 320 / 360 bar |
| Hydraulic oil tank | 270 l |
| Filtration | Flow-optimized return filters, integrated in the oil tank. Filter fineness defined at a beta value $\beta(10) = 200$ guarantees 99.5% separation of dirt particles with 10 μm . Very good separation values are already achieved with particle sizes of 3 μm . Generously dimensioned for long operating times. |
| Cooling system | Hydraulic oil cooler, fan speed controlled via a thermostat, reversible fan drive |

Operator's Cab

| | |
|------------------|---|
| Cab | Cabin with sliding door, mounted on silent blocks, viewing height 4.00 m. Reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front window with roller blind, glass panel in the cabin roof with sliding blind. Heating and air conditioning, separate heat exchangers, fresh and recirculated air filters. Front & roof guards for timber application. Multifunction touch display, bottle holder, paper clip and multiple storage and mounting options. Digital radio (DAB+, USB, Bluetooth & hands-free), USB charging station 5V. |
| Air conditioning | Automatic air-conditioning. Infinitely variable heating with 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles. |
| Operator's seat | Low-frequency suspension comfort seat with seat heating, passive seat climatisation and swinging armrests / joysticks. Safety belt, lumbar support and headrest. Enables fatigue-free work due to universal adjustment options for the seat position, seat inclination and the arrangement of the seat cushion in relation to the armrests and joysticks. |

Monitoring

| | |
|---|--|
| EU Stage V/ U.S. Tier 4 | EU Stage IIIA/ U.S. Tier 3* |
| Sound power level (ambience) L_{WA} 92.2 dB(A) (metered) acc. to directive 2000/14/EC | Sound power level (ambience) to be determined TBD |
| L_{WA} 96 dB(A) (guaranteed) acc. to directive 2000/14/EC | Sound pressure level (inside the cabin) acc. to directive ISO 6396 L_{PA} 69 dB(A) |
| Sound pressure level (inside the cabin) acc. to directive ISO 6396 L_{PA} 69 dB(A) | Sound pressure level (inside the cabin) |

Vibrations

| |
|--|
| Weighted r.m.s. value of acceleration of upper limbs: under 2.5 m/s ² (98 in/s ²) |
| Weighted effective value of acceleration for the seat and feet: under 0.5 m/s ² (20 in/s ²) |

Certified in accordance with CE regulations

Diesel Engine

| | |
|--|---|
| Intercooler and coolant radiator | ● |
| Direct electronic fuel injection / common rail | ● |
| DEF injection, passive regeneration | ● |
| Advanced automatic idle incl. engine shut-off function | ● |
| ECO- und Power Mode | ● |
| Engine preheating | ● |
| Engine diagnostics interface | ● |
| Temperature-dependent fan drive with reversible fan | ● |

Undercarriage

| | |
|--|---|
| Support blade on side of oscillating axle; integrated cylinder protection | ● |
| Second support blade (rigid axle side), individually controlled (including integrated cylinder protection) | ● |
| Maintenance free prop shafts | ● |
| All-wheel drive | ● |
| All-wheel steering | ● |
| Power shift gear | ● |
| Wireless tyre pressure monitoring | ● |
| Rear axle oscillating lock | ● |
| Direction of travel detection | ● |
| Dual circuit braking system | ● |
| Twin tyres – air inflated without spacers in between 10.00-20 16PR (Hauler) | ● |
| Twin tyres – air inflated without spacers in between 10.00-20 16PR (Maxxis) | ● |
| Trailer hitch (rigid axle side) | ● |
| Mudguard plastic | ● |
| Protection guard drivetrain | ● |
| Toolbox, large | ● |
| Toolbox, small | ● |
| Special paint | ● |

Uppercarriage

| | |
|--|---|
| Separated Cooling System | ● |
| Cooling system with temperature-dependent fan drive | ● |
| Reversible fan for hydraulicoilcooler | ● |
| External battery terminals | ● |
| Lockable maintenance hatches | ● |
| Automatic central lubrication system, grease reservoir can be filled from the ground | ● |
| Rear view camera | ● |
| Side view camera | ● |
| Travel alarm | ● |
| Electric refuelling pump | ● |
| Light protection for headlights and direction indicator | ● |
| Special paint | ● |

EQUIPMENT

Operator's Cab

| | |
|---|---|
| Automatic adjustment of steering direction | ● |
| Driving direction indication | ● |
| Electrical steering lock of the front axle | ● |
| Different steering characteristics | ● |
| Rigid cabin system (viewing height 4.00 m) | ● |
| Cabin tinted windows (side, rear) | ● |
| Single-pane safety glass (ESG) | ● |
| Sliding window in cab door | ● |
| Glass roof panel | ● |
| Cabin with penetration resistant glass front & top (classification P5A) | ● |
| Cabin with bullet-proof glass (classification P8B) | ● |
| Windshield washer system | ● |
| Washing device for roof window | ● |
| Low-frequency suspended comfort driver's seat incl. seat heating, air conditioning, and swinging armrests / joysticks | ● |
| Joystick steering | ● |
| Air Conditioner | ● |
| Auxiliary heating incl. timer | ● |
| Multi-function display | ● |
| Document clip | ● |
| Cabin front & top guard for timber machines | ● |
| 12 V transformer | ● |
| 12V socket/cigarette lighter | ● |
| Digital radio (DAB+, USB, Bluetooth & hands-free system) | ● |
| Fire extinguisher, dry powder with holder | ● |

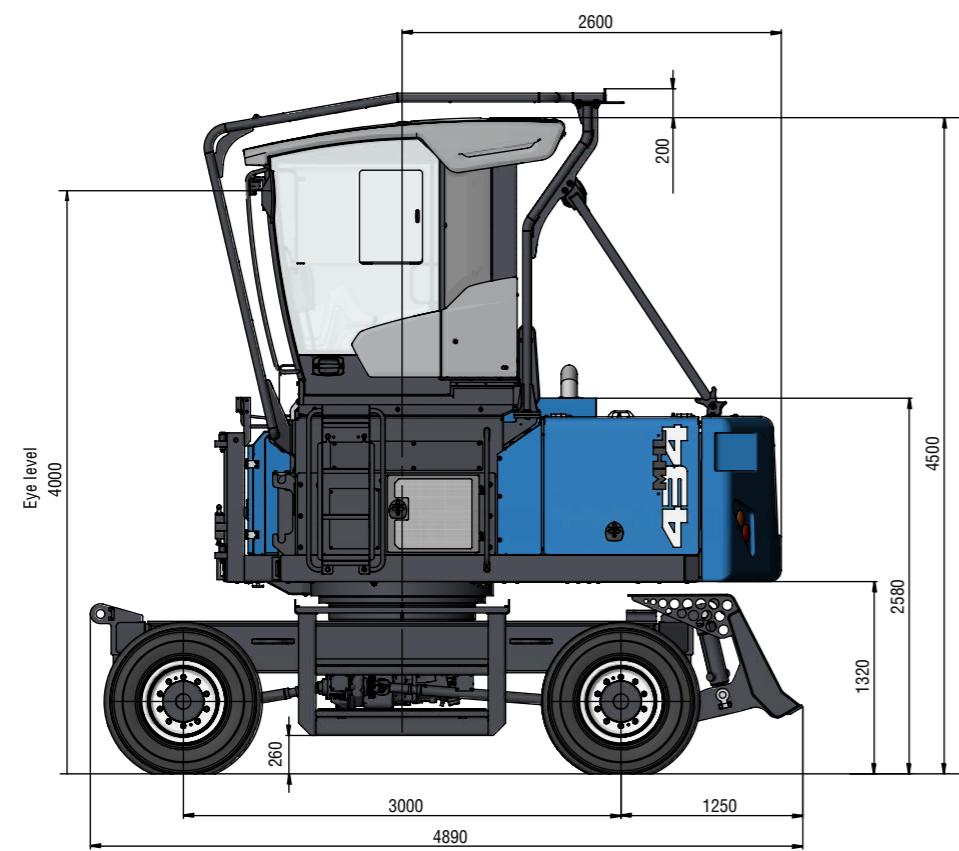
Other Equipment

| | |
|--|---|
| Close proximity range limiter for dipper stick | ● |
| Coolant and hydraulic oil level monitoring system | ● |
| Filtration system for attachments | ● |
| Rupture valves for lifting cylinders | ● |
| Rupture valves for stick cylinders | ● |
| Overload warning device basic | ● |
| Quick coupling on dipper stick | ● |
| Ball valves on dipper stick | ● |
| Dipper stick impact protection | ● |
| Active cyclone prefilter (TOP AIR) | ● |
| Hydraulic oil preheating | ● |
| Lubrication of the grab suspension by central lubrication system | ● |
| Light packages LED cabin front left & right, | |

DIMENSIONS

Side view

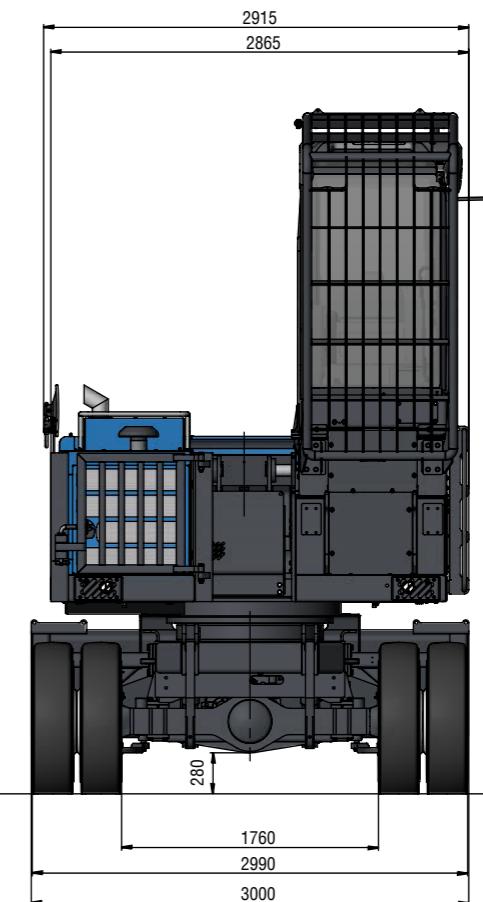
all dimensions in mm



DIMENSIONS

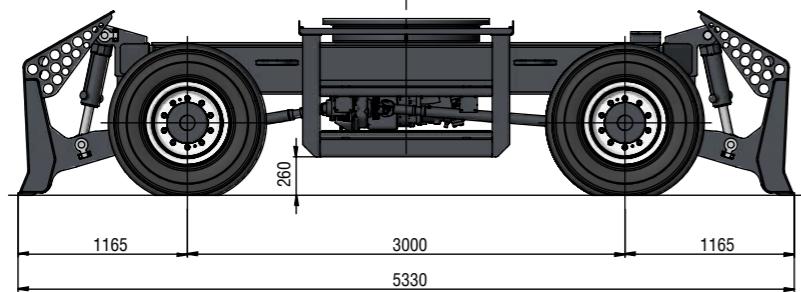
Front view

all dimensions in mm



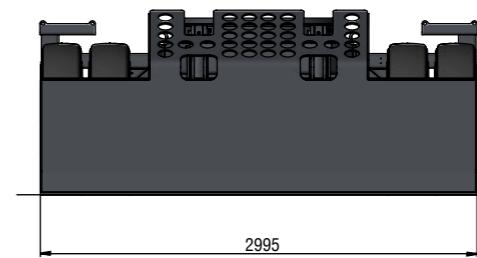
Side view with support blade

all dimensions in mm



Support blade

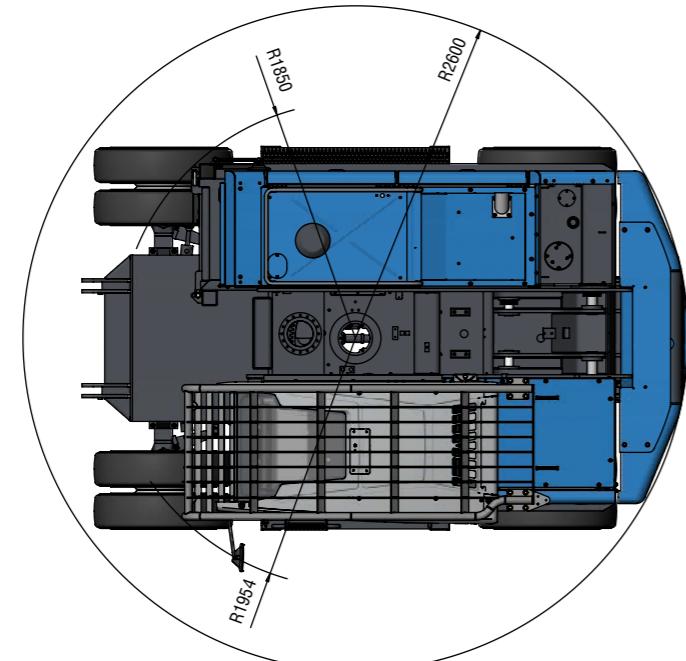
all dimensions in mm



DIMENSIONS

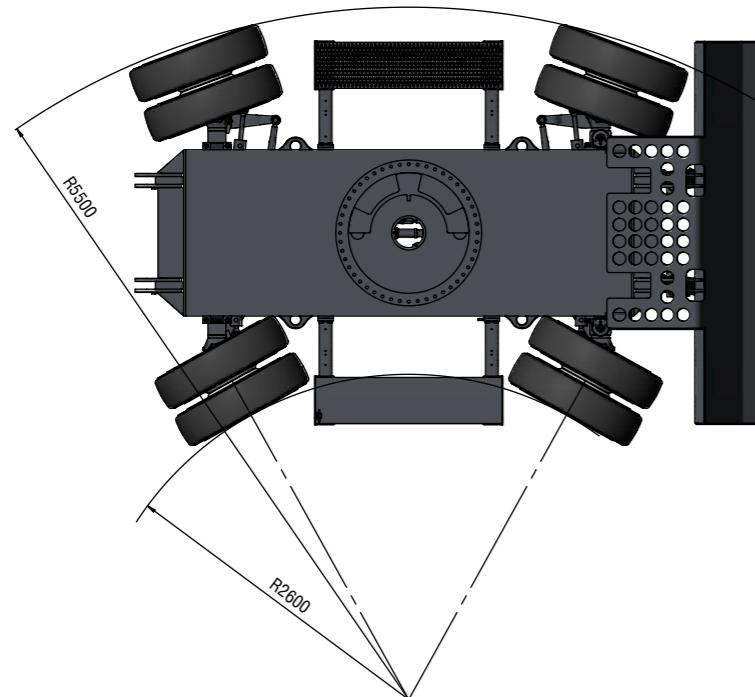
Swing area

all dimensions in mm



Turning radius

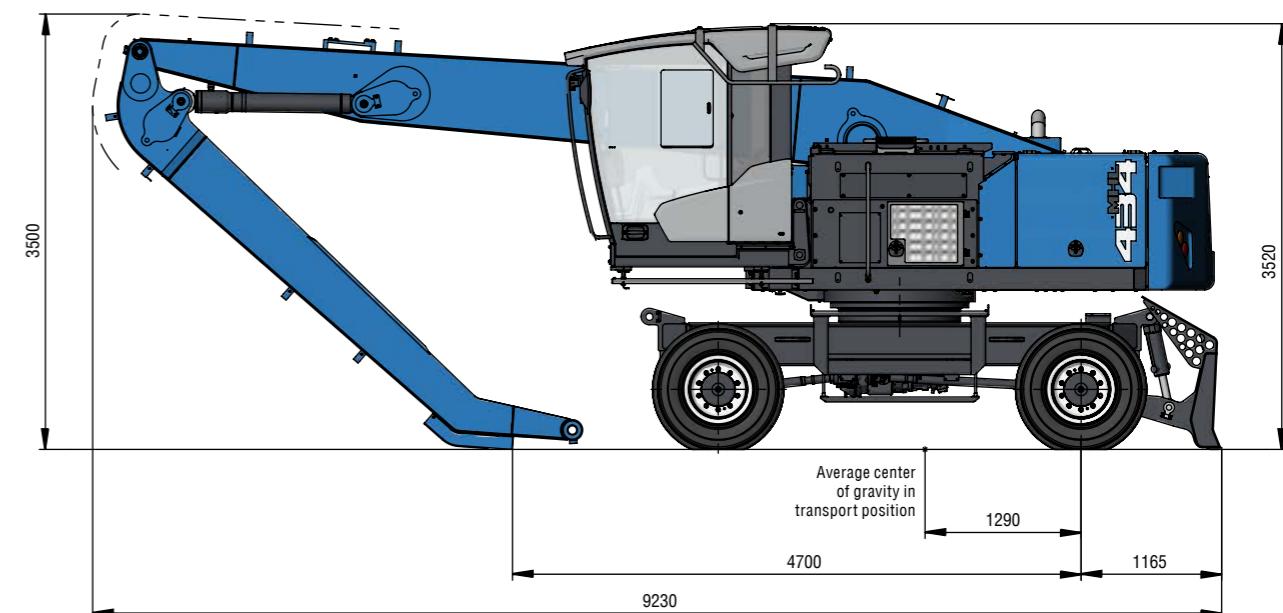
all dimensions in mm



TRANSPORT DIMENSIONS

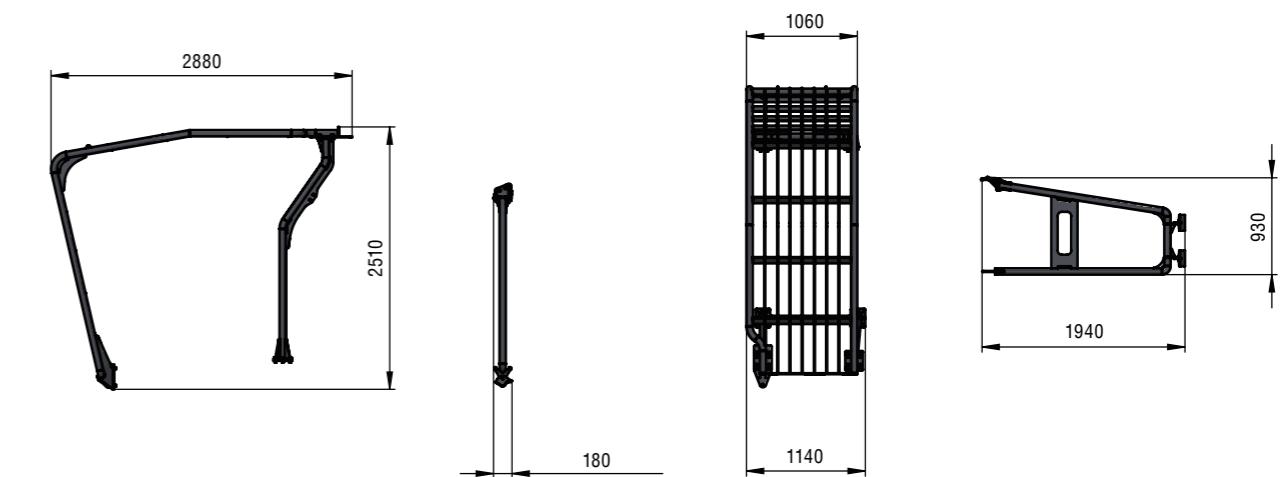
Side view

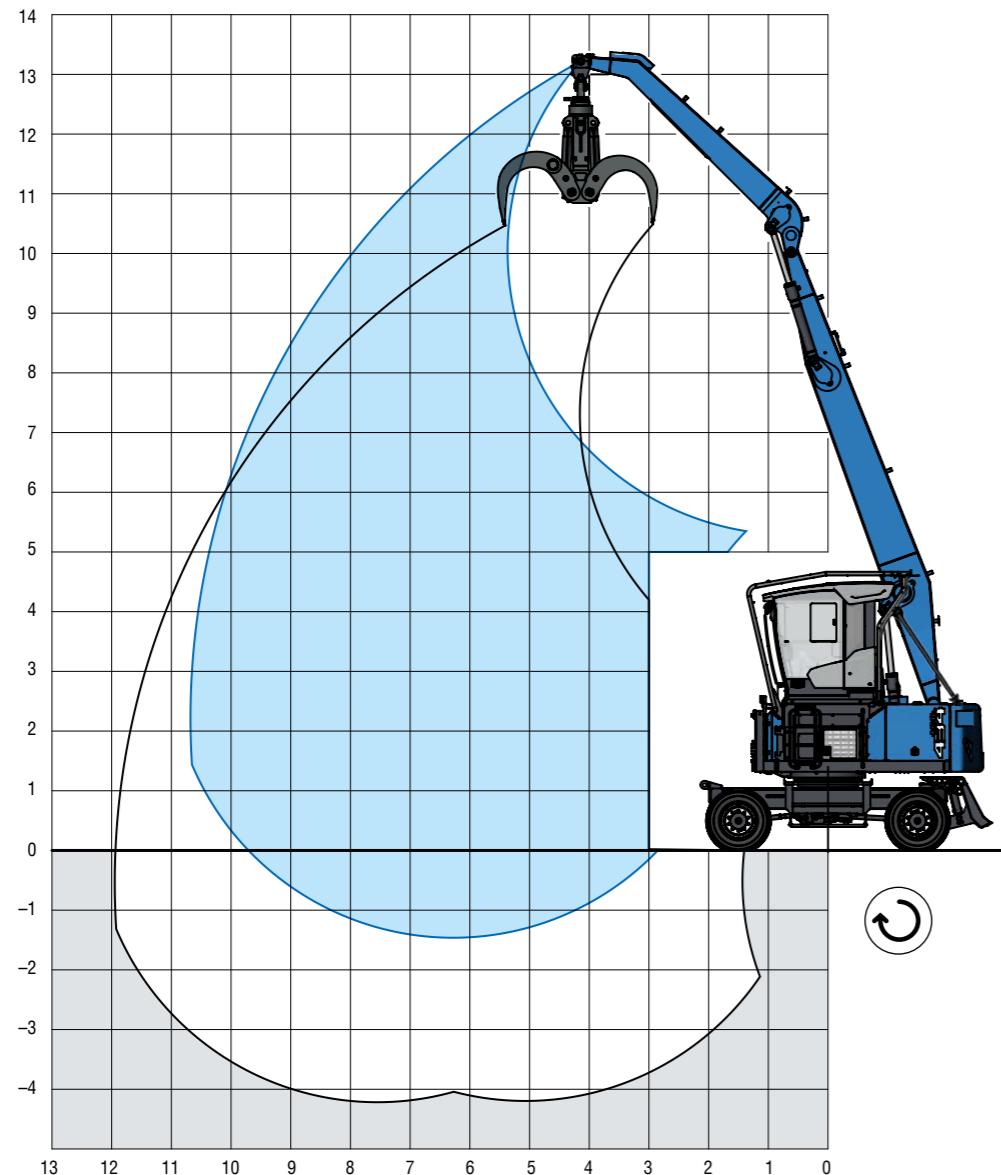
all dimensions in mm



Front and roof guard

all dimensions in mm



REACH**10.7 m** with dipper stick

[m]

LIFTING CAPACITY

| | | 3 m | 4.5 m | 6 m | 7.5 m | 9 m | 10.5 m |
|--------|--------------------------|--------------------------|------------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 12 m | 3.3° (3.3°) [3.3°] | | | | | | |
| 10.5 m | 5.7° (5.7°) [5.7°] | 3.2° (3.2°) [3.2°] | | | | | |
| 9 m | 6.6 (7.1°) [6.9] | 4.6 (5.3°) [4.8] | | | | | |
| 7.5 m | 6.4 (7.5°) [6.7] | 4.5 (5.9) [4.7] | 3.3 (4.2°) [3.5] | | | | |
| 6 m | 9.2° (9.2°) [9.2°] | 6.2 (7.7°) [6.5] | 4.4 (5.8) [4.6] | 3.3 (4.4) [3.5] | | | |
| 4.5 m | 10.0 (10.0) [10.0] | 8.9 (9.8°) [9.8°] | 5.9 (7.8) [6.3] | 4.2 (5.6) [4.5] | 3.2 (4.3) [3.4] | | |
| 3 m | 10.0 (10.0) [10.0] | 8.3 (10.0) [9.2] | 5.5 (7.5) [6.0] | 4.0 (5.4) [4.3] | 3.1 (4.2) [3.3] | 2.5 (3.3) [2.6] | |
| 1.5 m | 5.9° (5.9°) [5.9°] | 7.8 (10.0) [8.7] | 5.2 (7.2) [5.7] | 3.9 (5.2) [4.2] | 3.0 (4.1) [3.2] | 2.4 (3.3) [2.6] | |
| 0 m | 5.3° (5.3°) [5.3°] | 7.4 (9.7°) [8.4] | 5.0 (7.0) [5.6] | 3.7 (5.1) [4.1] | 2.9 (4.0) [3.2] | | |
| | | | | | | | max. reach 10.7 m |
| 2.2 m | | | | | | | 2.4 (2.8°) [2.6] |

Recommended attachments upon request
 Values for a **rotation range of 360°** on solid and level ground

 Values for **stationary use** in longitudinal direction of the undercarriage (support blade on the rear side)

 Values for **travel** in longitudinal direction of the undercarriage (support blade on the rear side)

 Height

 Reach

 Center of rotation

The lift capacity values are stated in metric tons (t) and apply when the pendulum axle is locked. In accordance with ISO 10567 the lift capacity values represents 75% (60% when driving, according to DIN EN 474-5) of the static tipping loads or 87% of the hydraulic lifting force (marked *). On solid and level ground the values apply to a swing range of 360°. The (...) values apply to stationary use in the longitudinal direction of the undercarriage (rear plate). The [...] values apply to driving in the longitudinal direction of the undercarriage (rear plate). The weights of the attached load hoisting equipment (grab, load hook, etc.) must be deducted from the lift capacity values. The working load of the lifting device must be observed. In accordance with the DIN EN 474-5 for object handling application hose rupture valves on the boom and stick cylinders, an overload warning device and the lift capacity table in the cab are required.

GREAT FEATURES COME STANDARD WITH YOUR FUCHS



⦿ Wireless tyre pressure monitoring



⦿ Switch for light in engine bay



⦿ Engine radiator protection



⦿ Boom cylinder damping system



⦿ Front and roof guard
for timber application



⦿ Travel-direction detection



⦿ Welcome home illumination
with remote control



⦿ External battery terminals



⦿ Support blade, integrated cylinder protection

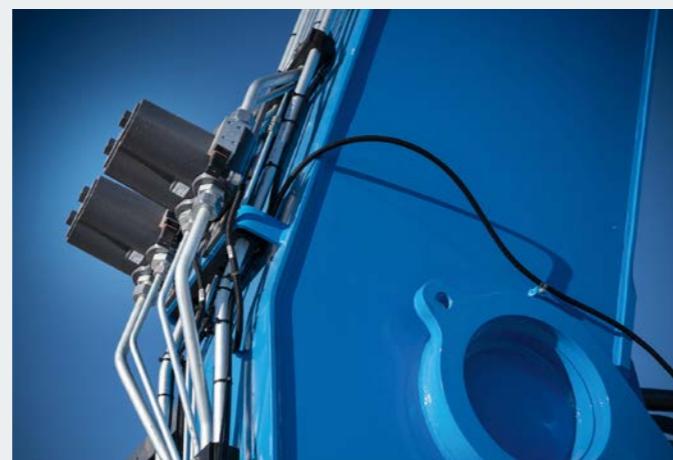


⦿ Automatic steering reversal
(can be switched off)

SPECIAL OPTIONS (EXTRACT) FOR TIMBER APPLICATIONS



⊕ Trailer hitch



⊕ Filtration system for attachments

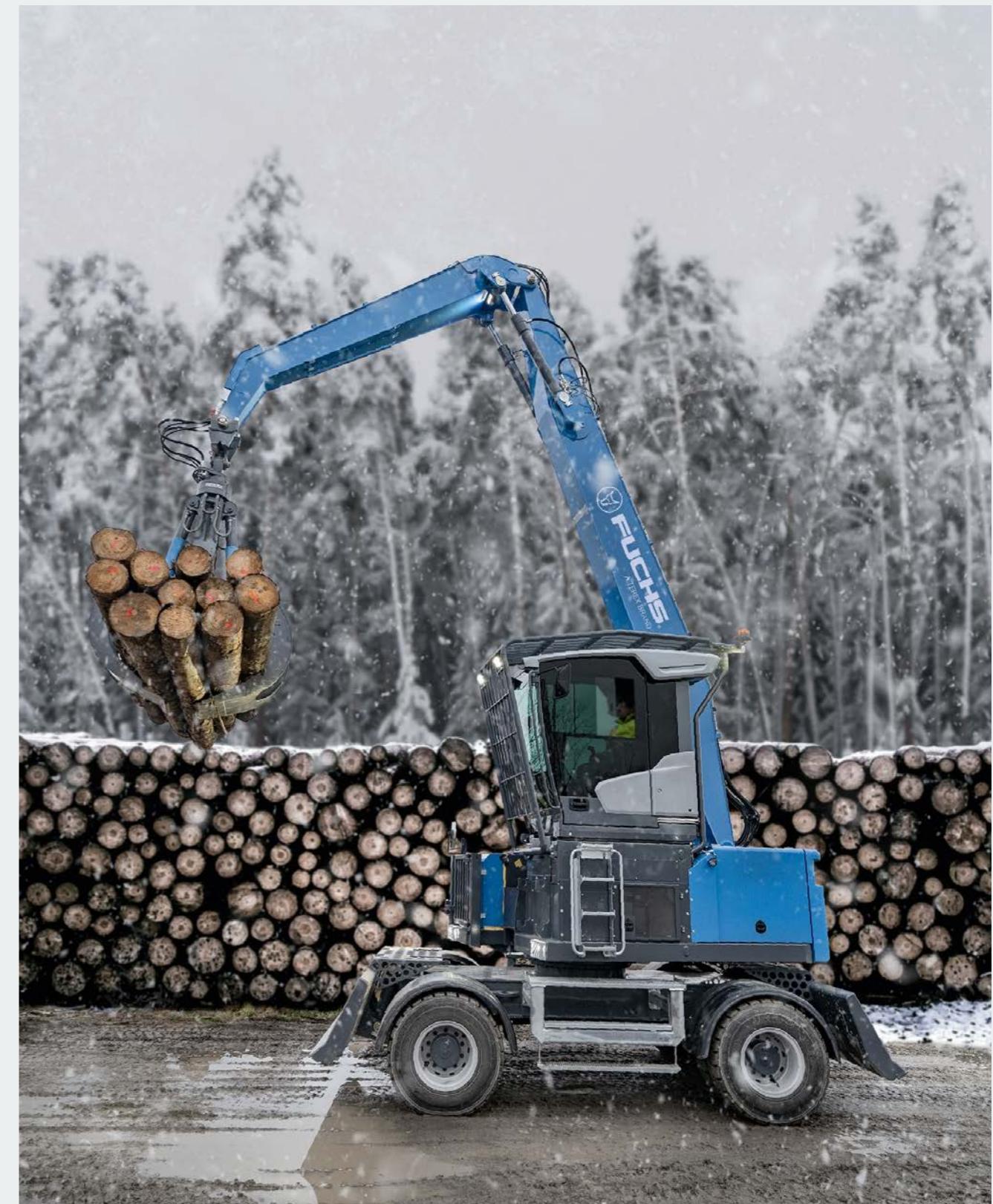


⊕ Drivetrain protection guard



⊕ Wide range of alternative tyres

⊕ Mudguards



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