

TECHNICAL DATA

Operating weight without attachments

MHL434 F	24.1–25.7 t
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Diesel Engine

	EU Stage V / US EPA Tier 4	EU Stage IIIB / US Tier 3
Manufacturer and model	Deutz TCD 4.1 L4	Deutz TCD 4.1 L4
Design	4-cylinder in-line engine	4-cylinder in-line engine
Functionality	4-stroke diesel, common rail direct injection, turbo-charged with intercooler, controlled exhaust gas recirculation, diesel particulate filter with continuous regeneration and SCR catalytic converter	4-stroke diesel, common rail direct injection, turbo-charged with intercooler
Engine power	115 kW	115 kW
Rated speed	2000 rpm	2000 rpm
Displacement	4.1 l	4.1 l
Cooling system	Water and charge air cooling with temperature controlled fan speed and reversible fan	Water and charge air cooling with temperature controlled fan speed and reversible fan
Exhaust emission standard	EU Stage V / US EPA Tier 4	EU Stage IIIB / US Tier 3
Fuel tank	293 l	293 l
DEF / Urea tank	20 l	□

Electrical System

Alternator	28 V / 100 A
Operating voltage	24 V
Battery	2 × 12 V / 110 Ah / 750 A (as per EN)
Lighting system	2 × LED headlights, turn signals and tail lights. 6 × 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
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
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 climatization 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	Ergonomically arranged, glare-free Multifunction display. Automatic monitoring and storage of deviating operating states (e.g. all hydraulic oil filters, hydraulic oil temperature – coolant and charge air temperature – diesel particulate filter loading, steering), visual and audible warning. Diagnostic option for the individual sensors via the multifunction display. Rear view and side view camera on the right with separate monitor	
Noise level	EU Stage V / US EPA Tier 4 Sound power level (ambience) $L_{WA} \dots$ dB(A) (metered) acc. to directive 2000/14/EC $L_{WA} \dots$ dB(A) (guaranteed) acc. to directive 2000/14/EC Sound pressure level (inside the cabin) acc. to directive ISO 6396 $L_{pA} \dots$ dB(A)	EU Stage IIIB / US Tier 3 Sound power level (ambience) $L_{WA} \dots$ dB(A) (metered) acc. to directive 2000/14/EC $L_{WA} \dots$ dB(A) (guaranteed) acc. to directive 2000/14/EC Sound pressure level (inside the cabin) acc. to directive ISO 6396 $L_{pA} \dots$ dB(A)
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

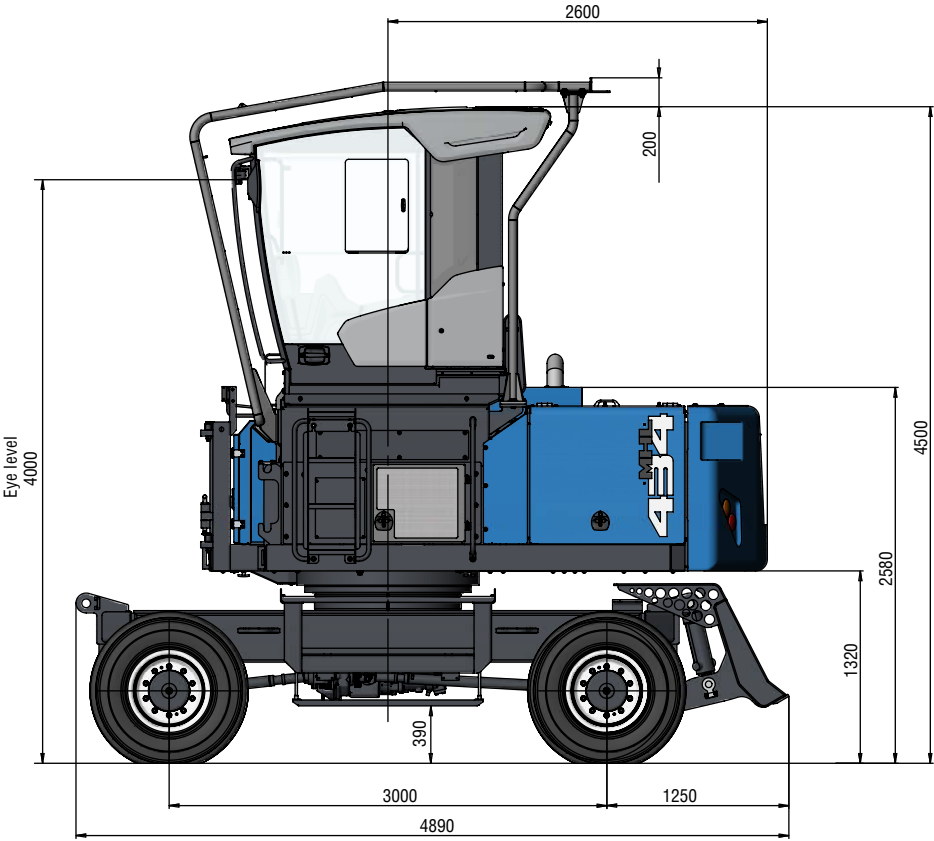
EQUIPMENT

Diesel Engine	Standard	Option
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 hydraulic oil cooler	●	
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		●
Operator's Cab	Standard	Option
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, cabin rear left, welcome home illumination with remote control, engine room, counterweight left & right, uppercarriage right	●	
LED stick center		●
Fuchs Connect telematics system, incl. 5 years contract	●	

DIMENSIONS

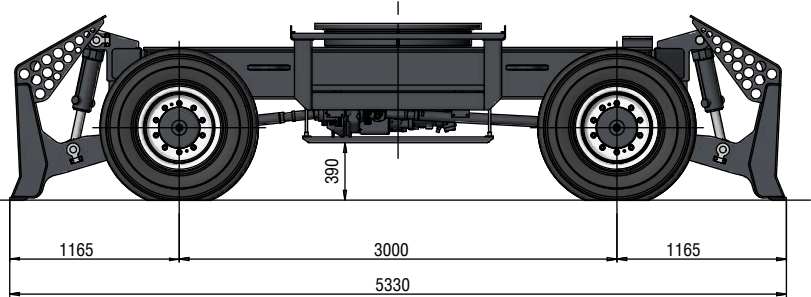
Side view

all dimensions in mm



Side view with support blade

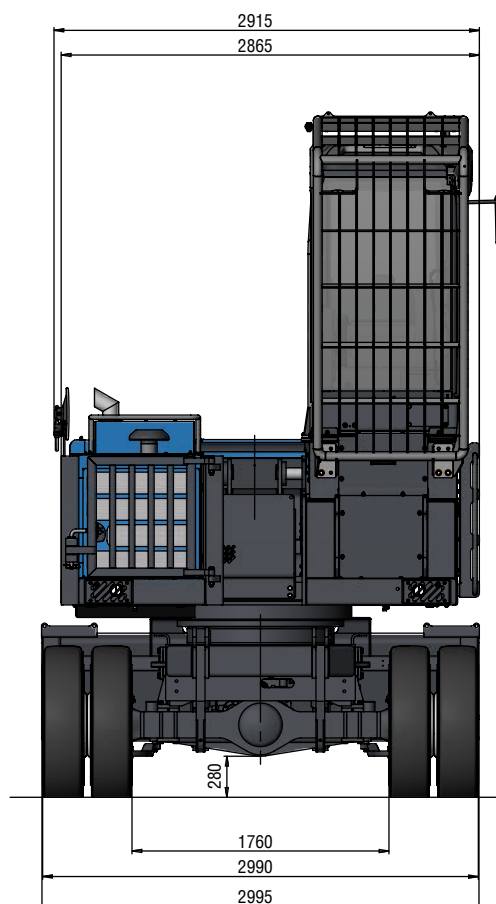
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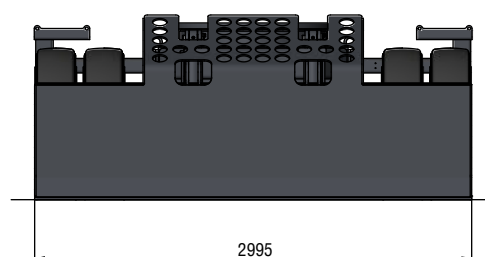
Front view

all dimensions in mm



Support blade

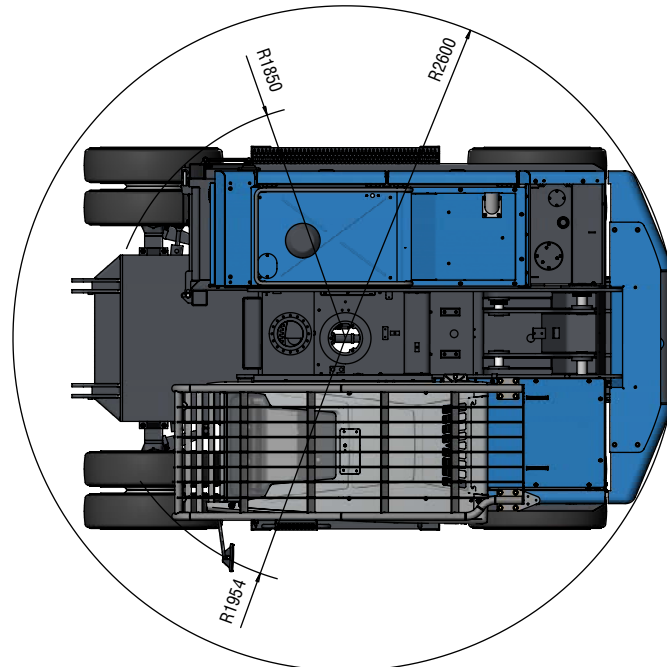
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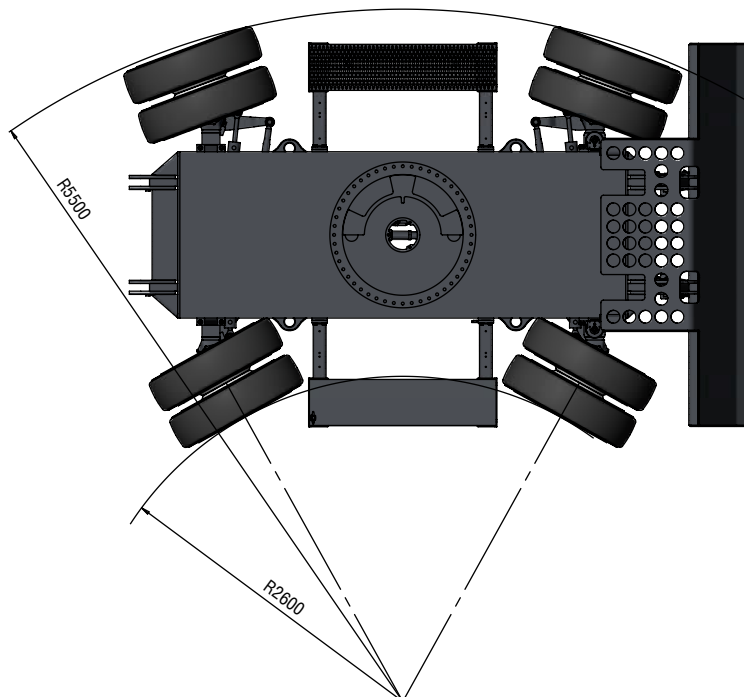
Swing area

all dimensions in mm



Turning radius

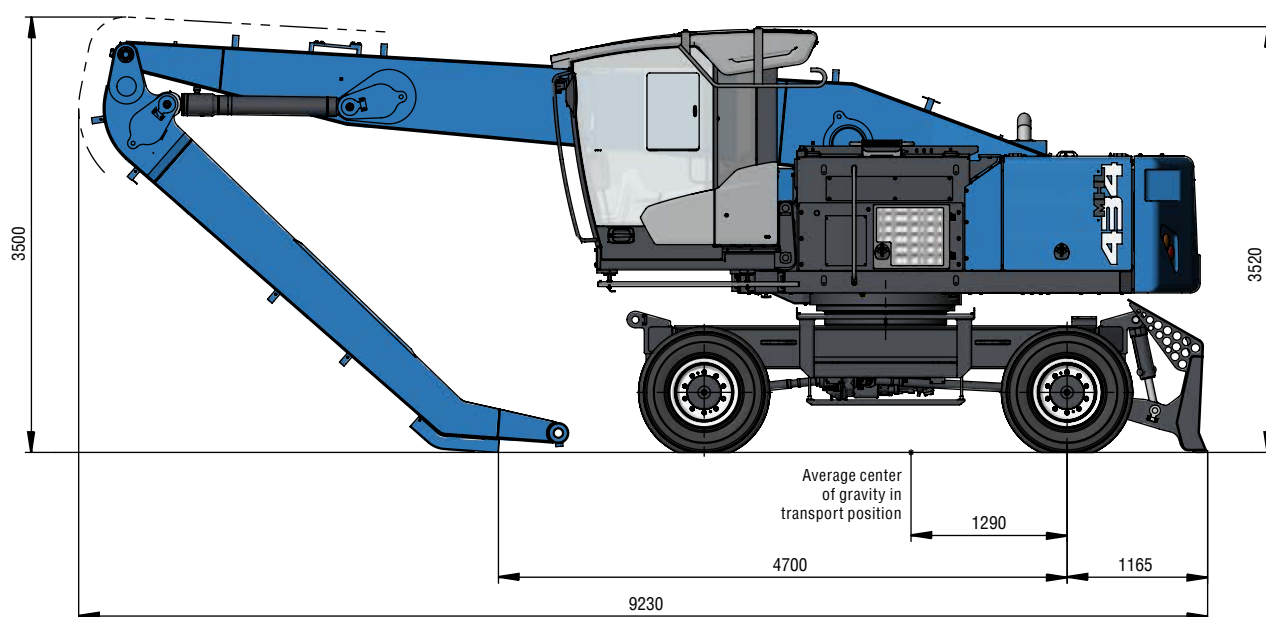
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TRANSPORT DIMENSIONS

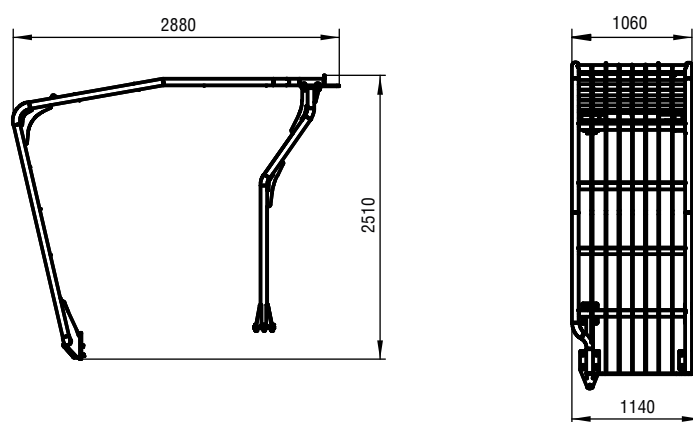
Side view

all dimensions in mm



Front and roof guard

all dimensions in mm



REACH

10.7 m with dipper stick

