

Preliminary  
US

# MHL 434



 154 hp

 53,131–56,659 lbs

 max. 35'1"



**FUCHS**<sup>®</sup>

A TEREX BRAND

**Let's  
handle**

**it!**

**MHL  
434**



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## TECHNICAL DATA

### Operating weight without attachments

MHL434 F	53,131–56,659 lbs
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### Diesel Engine

	U.S. Tier 4/ EU Stage V	U.S. Tier 3/ EU Stage IIIA*
<b>Manufacturer and model</b>	Deutz TCD 4.1 L4	Deutz TCD 4.1 L4
<b>Design</b>	4-cylinder in-line engine	4-cylinder in-line engine
<b>Functionality</b>	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
<b>Engine power</b>	154 hp	154 hp
<b>Rated speed</b>	2,000 rpm	2,000 rpm
<b>Displacement</b>	250 cui	250 cui
<b>Cooling system</b>	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
<b>Exhaust emission standard</b>	U.S. Tier 4/ EU Stage V	U.S. Tier 3/ EU Stage IIIA*
<b>Fuel tank</b>	77.4 gal	77.4 gal
<b>DEF / Urea tank</b>	5.3 gal	□

### Electrical System

<b>Alternator</b>	28 V / 100 A
<b>Operating voltage</b>	24 V
<b>Battery</b>	2 × 12 V / 110 Ah / 750 A (as per EN)
<b>Lighting system</b>	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

<b>Travel speed</b>	1st gear: max. 3.1 mph 2nd gear: max. 11.8 mph
<b>Turning radius</b>	18'

### Swing Drive

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

### Undercarriage

<b>Front axle</b>	Planetary drive axle with integrated drum brake, rigidly mounted
<b>Rear axle</b>	Planetary drive axle with integrated drum brake, oscillating axle with automatic oscillation lock
<b>Supporting</b>	Support blade on side of oscillating axle; integrated cylinder protection
<b>Tyres</b>	Twin tyres – air inflated without spacers in between 10.00-20 16PR with wireless tyre pressure monitoring system

### Brakes

<b>Service brake</b>	Hydraulically activated dual-circuit brake system acting on all four wheel pairs, lockable
<b>Parking brake</b>	Electro-hydraulically actuated spring-loaded disk brake on the front axle, works on both axles

### Hydraulic System

<b>Max. pump capacity</b>	87 gpm
<b>Max. operating pressure</b>	4,641 / 5,221 psi
<b>Hydraulic oil tank</b>	71.3 gal
<b>Filtration</b>	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 $\mu\text{m}$ . Very good separation values are already achieved with particle sizes of 3 $\mu\text{m}$ . Generously dimensioned for long operating times.
<b>Cooling system</b>	Hydraulic oil cooler, fan speed controlled via a thermostat, reversible fan drive

### Operator's Cab

<b>Cab</b>	Cabin with sliding door, mounted on silent blocks, viewing height 13'1". 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.	
<b>Air conditioning</b>	Automatic air-conditioning. Infinitely variable heating with 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles.	
<b>Operator's seat</b>	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.	
<b>Monitoring</b>	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	
<b>Noise level</b>	<b>U.S. Tier 4/ EU Stage V</b> Sound power level (ambience) $L_{WA}$ 92.2 dB(A) (metered) acc. to directive 2000/14/EC $L_{WA}$ 96 dB(A) (guaranteed) acc. to directive 2000/14/EC Sound pressure level (inside the cabin) acc. to directive ISO 6396 $L_{DA}$ 69 dB(A)	<b>U.S. Tier 3/ EU Stage IIIA*</b> Sound power level (ambience)  Sound pressure level (inside the cabin) acc. to directive ISO 6396 $L_{DA}$ ... dB(A)
<b>Vibrations</b>	Weighted r.m.s. value of acceleration of upper limbs: under 98 in/s <sup>2</sup> Weighted effective value of acceleration for the seat and feet: under 20 in/s <sup>2</sup>	

Certified in accordance with CE regulations

\* for low-regulated markets

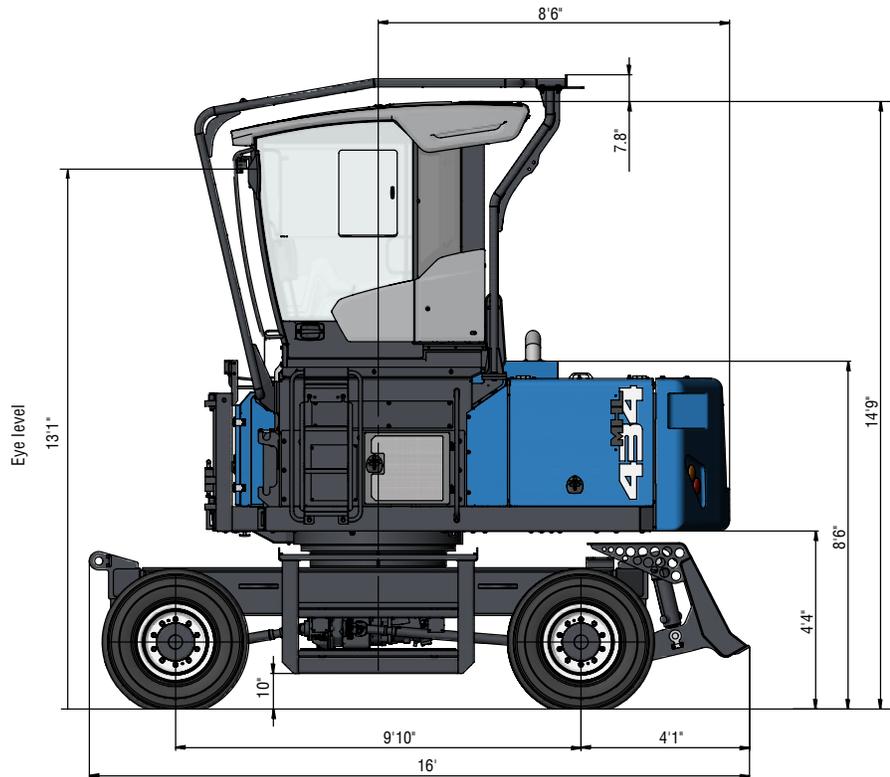
## EQUIPMENT

<b>Diesel Engine</b>	Standard	Option	<b>Operator's Cab</b>	Standard	Option
Intercooler and coolant radiator	●		Automatic adjustment of steering direction	●	
Direct electronic fuel injection / common rail	●		Driving direction indication	●	
DEF injection, passive regeneration	●		Electrical steering lock of the front axle	●	
Advanced automatic idle incl. engine shut-off function	●		Different steering characteristics	●	
ECO- und Power Mode	●		Rigid cabin system (viewing height 13'1")	●	
Engine preheating		●	Cabin tinted windows (side, rear)	●	
Engine diagnostics interface	●		Single-pane safety glass (ESG)	●	
Temperature-dependent fan drive with reversible fan	●		Sliding window in cab door	●	
<b>Undercarriage</b>			Glass roof panel	●	
Support blade on side of oscillating axle; integrated cylinder protection	●		Cabin with penetration resistant glass front & top (classification P5A)		●
Second support blade (rigid axle side), individually controlled (including integrated cylinder protection)		●	Cabin with bullet-proof glass (classification P8B)		●
Maintenance free prop shafts	●		Windshield washer system	●	
All-wheel drive	●		Washing device for roof window		●
All-wheel steering	●		Low-frequency suspended comfort driver's seat incl. seat heating, air conditioning, and swinging armrests / joysticks	●	
Power shift gear	●		Joystick steering	●	
Wireless tyre pressure monitoring	●		Air Conditioner	●	
Rear axle oscillating lock	●		Auxiliary heating incl. timer		●
Direction of travel detection	●		Multi-function display	●	
Dual circuit braking system	●		Document clip	●	
Twin tyres – air inflated without spacers in between 10.00-20 16PR (Hauler)		●	Cabin front & top guard for timber machines	●	
Twin tyres – air inflated without spacers in between 10.00-20 16PR (Maxxis)		●	12 V transformer		●
Trailer hitch (rigid axle side)		●	12V socket/cigarette lighter		●
Mudguard plastic		●	Digital radio (DAB+, USB, Bluetooth & hands-free system)	●	
Protection guard drivetrain		●	Fire extinguisher, dry powder with holder		●
Toolbox, large		●	<b>Other Equipment</b>		
Toolbox, small	●		Close proximity range limiter for dipper stick	●	
Special paint		●	Coolant and hydraulic oil level monitoring system	●	
<b>Uppercarriage</b>			Filtration system for attachments		●
Seperated Cooling System	●		Rupture valves for lifting cylinders	●	
Cooling system with temperature-dependent fan drive	●		Rupture valves for stick cylinders	●	
Reversible fan for hydraulicoilcooler	●		Overload warning device basic		●
External battery terminals	●		Quick coupling on dipper stick	●	
Lockable maintenance hatches	●		Ball valves on dipper stick		●
Automatic central lubrication system, grease reservoir can be filled from the ground	●		Dipper stick impact protection		●
Rear view camera	●		Active cyclone prefilter (TOP AIR)		●
Side view camera	●		Hydraulic oil preheating		●
Travel alarm		●	Lubrication of the grab suspension by central lubrication system	●	
Electric refuelling pump		●	Light packages LED cabin front left & right, cabin rear left, welcome home illumination with remote control, engine room, counterweight left & right, uppercarriage right	●	
Light protection for headlights and direction indicator	●		LED stick center		●
Special paint		●	Fuchs Connect telematics system, incl. 5 years contract	●	

## DIMENSIONS

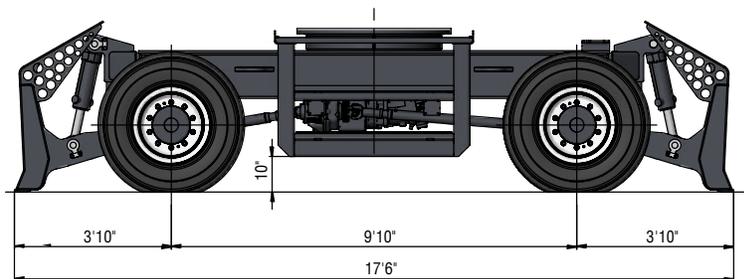
### Side view

all dimensions in ft & in



### Side view with support blade

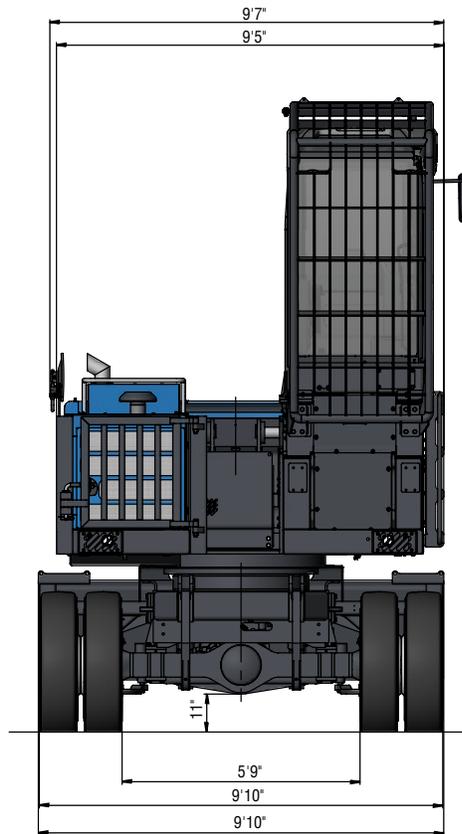
all dimensions in ft & in



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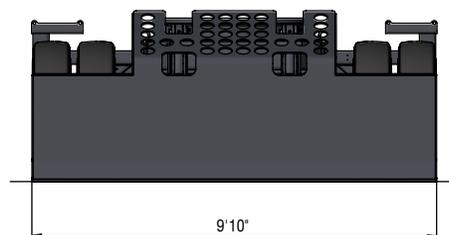
### Front view

all dimensions in ft & in



### Support blade

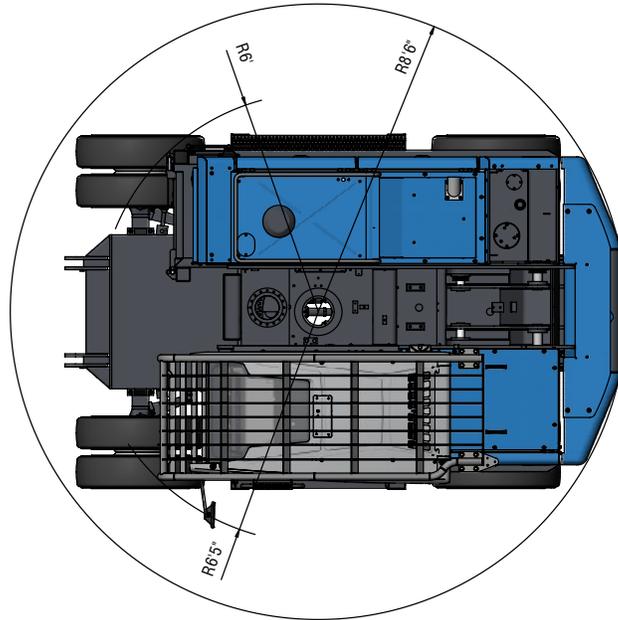
all dimensions in ft & in



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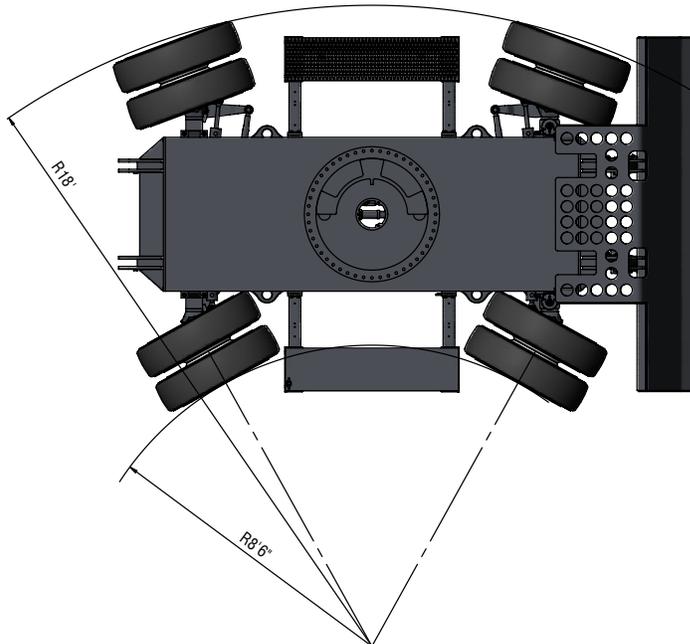
### Swing area

all dimensions in ft & in



### Turning radius

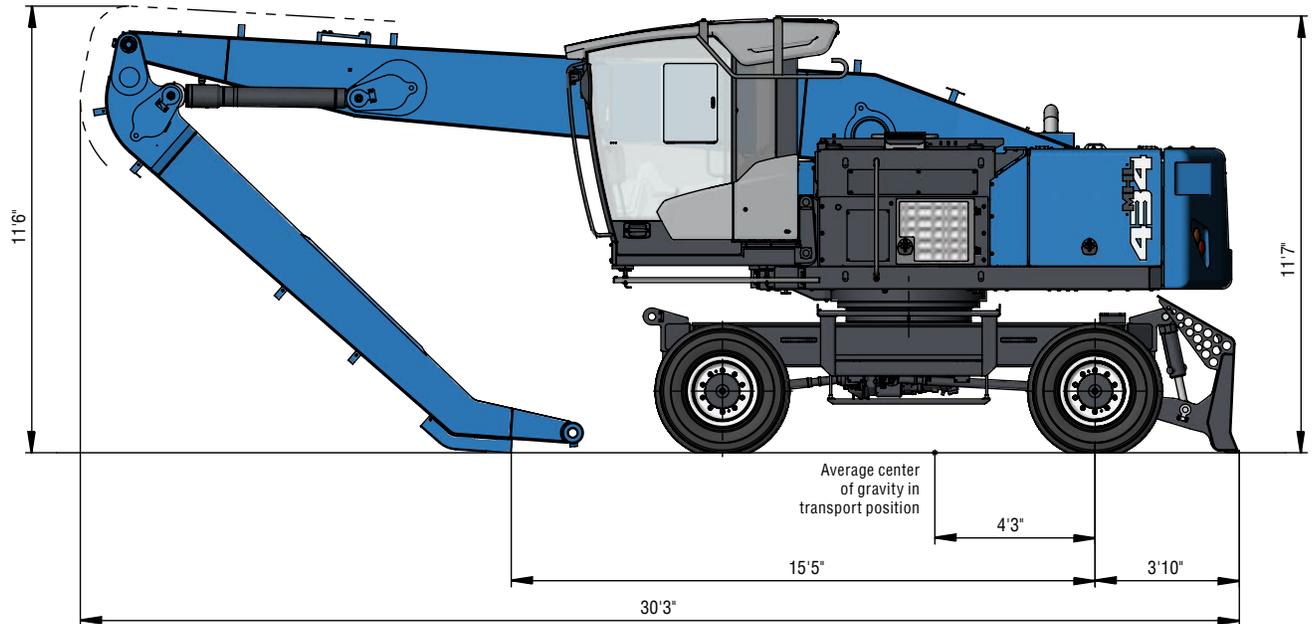
all dimensions in ft & in



## TRANSPORT DIMENSIONS

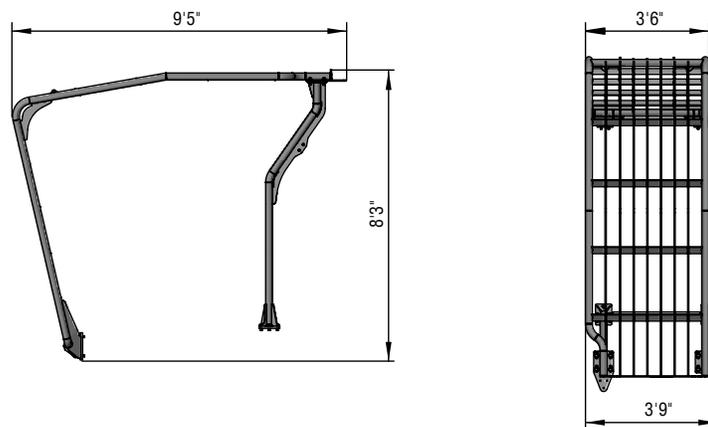
### Side view

all dimensions in ft & in



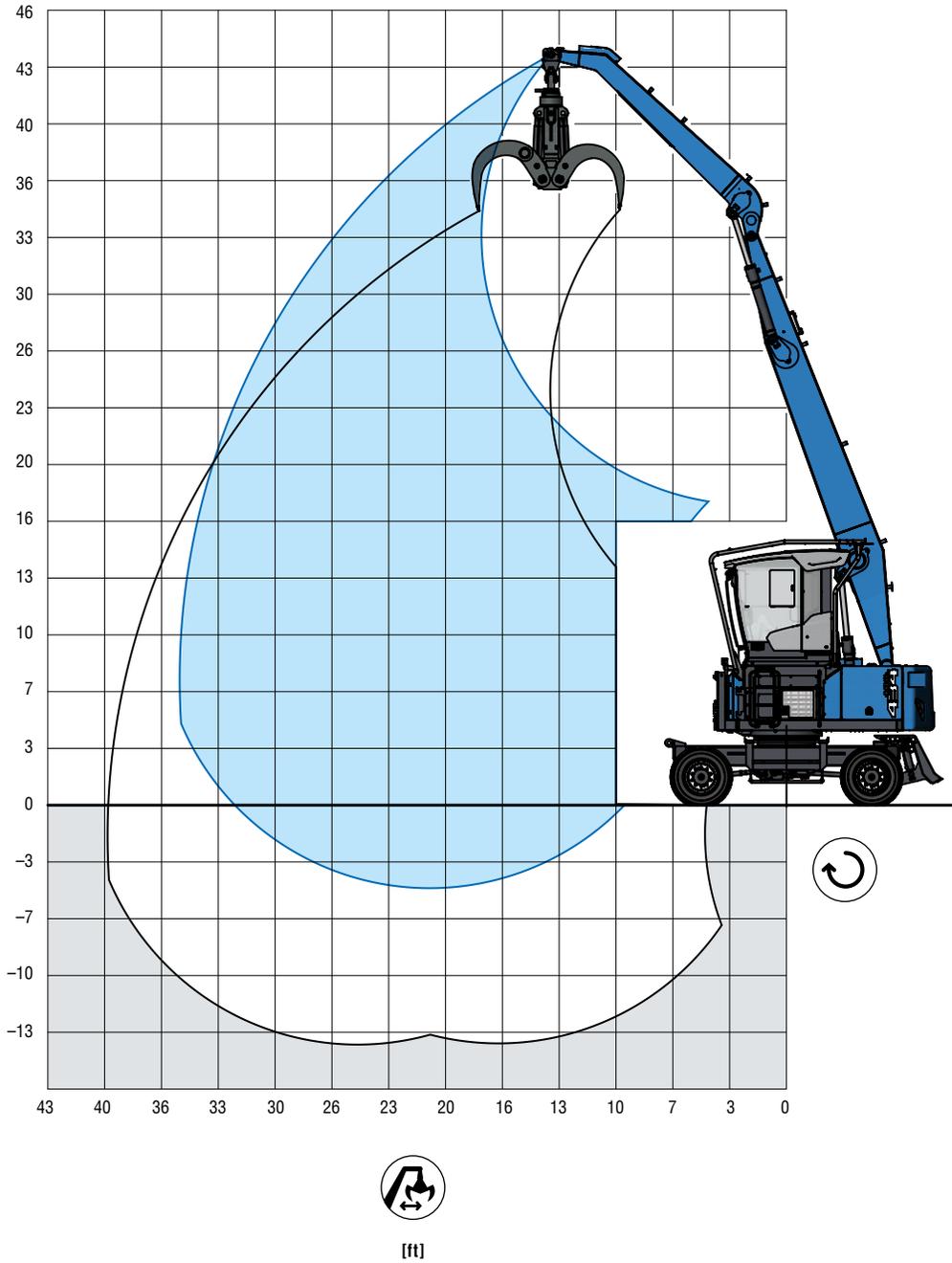
### Front and roof guard

all dimensions in ft & in



# REACH

## 35'1" with dipper stick



## LIFTING CAPACITY

								
			5 ft	10 ft	15 ft	20 ft	25 ft	30 ft
40 ft		 			7,400° (7,400°) [7,400°]			
35 ft		 			12,500° (12,500°) [12,500°]	7,100° (7,100°) [7,100°]		
30 ft		 			14,600 (15,700°) [15,200]	10,200 (11,800°) [10,600]		
25 ft		 			14,200 (16,600°) [14,900]	10,000 (13,200) [10,500]	7,400 (9,300°) [7,900]	
20 ft		 		20,400° (20,400°) [20,400°]	13,700 (11,100°) [14,400]	9,600 (12,900) [10,300]	7,300 (9,700) [7,600]	
15 ft		 	22,000 (22,000) [22,000]	19,700 (21,600°) [21,600°]	13,000 (17,300) [13,600]	9,400 (12,400) [9,900]	7,100 (9,500) [7,600]	
10 ft		 	22,000 (22,000) [22,000]	18,300 (20,000) [20,300]	12,200 (16,500) [13,200]	9,000 (12,000) [9,600]	6,900 (9,300) [7,400]	5,500 (7,400) [5,900]
5 ft		 	13,000° (13,000°) [13,000°]	17,200 (20,000) [19,300]	11,600 (15,900) [12,700]	8,600 (11,600) [9,300]	6,700 (9,000) [7,200]	5,400 (7,300) [5,800]
0 ft		 	11,900° (11,900°) [11,900]	16,400 (21,400°) [18,700]	11,200 (15,400) [12,300]	8,300 (11,300) [9,100]	6,500 (8,900) [7,100]	
<b>max. reach 35 ft</b>								
7 ft		 						5,300 (6,300°) [5,700]

### 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 imperial pounds (lbs) 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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