

US

MHL 434



154 hp



53,131–56,659 lbs



max. 35'1"



FUCHS
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	
Diesel Engine		
	U.S. Tier 4/ EU Stage V	U.S. Tier 3/ EU Stage IIIA*
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	154 hp	154 hp
Rated speed	2,000 rpm	2,000 rpm
Displacement	250 cui	250 cui
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	U.S. Tier 4/ EU Stage V	U.S. Tier 3/ EU Stage IIIA*
Fuel tank	77.4 gal	77.4 gal
DEF / Urea tank	5.3 gal	□

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. 3.1 mph 2nd gear: max. 11.8 mph

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

* for low-regulated markets

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	87 gpm
Max. operating pressure	4,641 / 5,221 psi
Hydraulic oil tank	71.3 gal
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 $10\text{ }\mu\text{m}$. Very good separation values are already achieved with particle sizes of $3\text{ }\mu\text{m}$. 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 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.
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

	U.S. Tier 4/ EU Stage V	U.S. Tier 3/ EU Stage IIIA*
Noise level	<p>Sound power level (ambience)</p> <p>L_{WA} 92.2 dB(A) (metered)</p> <p>acc. to directive 2000/14/EC</p> <p>L_{WA} 96 dB(A) (guaranteed)</p> <p>acc. to directive 2000/14/EC</p> <p>Sound pressure level (inside the cabin)</p> <p>acc. to directive ISO 6396</p> <p>L_{PA} 69 dB(A)</p>	<p>Sound power level (ambience)</p>  <p>Sound pressure level (inside the cabin)</p> <p>acc. to directive ISO 6396</p> <p>L_{PA} .. dB(A)</p>
Vibrations	<p>Weighted r.m.s. value of acceleration of upper limbs: under 98 in/s²</p> <p>Weighted effective value of acceleration for the seat and feet: under 20 in/s²</p>	
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 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		●

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 13'1")	●	
Cabin tinted windows (side, rear)	●	
Single-pane safety glass (ESG)	●	
Sliding window in cab door	●	
Glass roof panel	●	

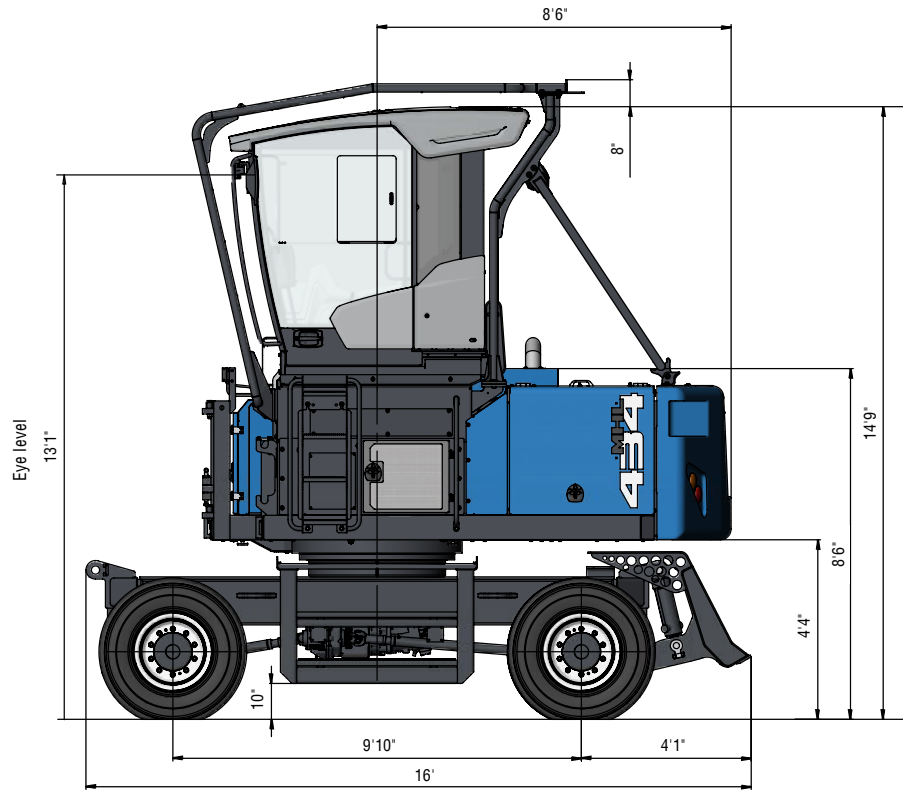
Cabin with penetration resistant glass front & top (classification P5A)		●
Cabin with bullet-proof glass (classification P8B)		●
Windshield washer system	●	
Washing device for roof window		●
Low-frequency suspended comfort driver's seat incl. seat heating, air conditioning, and swinging armrests / joysticks	●	
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

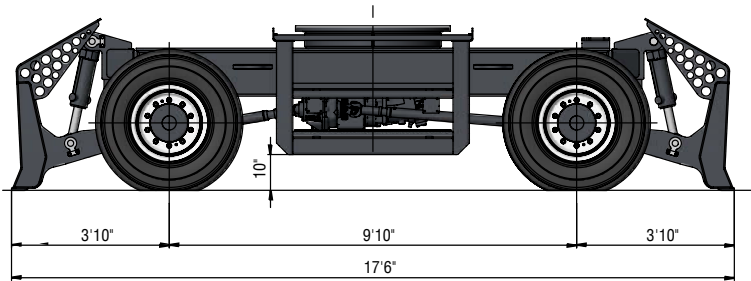
Close proximity range limiter for dipper stick	●	
Coolant and hydraulic oil level monitoring system	●	
Filtration system for attachments		●
Rupture valves for lifting cylinders	●	
Rupture valves for stick cylinders	●	
Overload warning device basic		●
Quick coupling on dipper stick	●	
Ball valves on dipper 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 ft & in

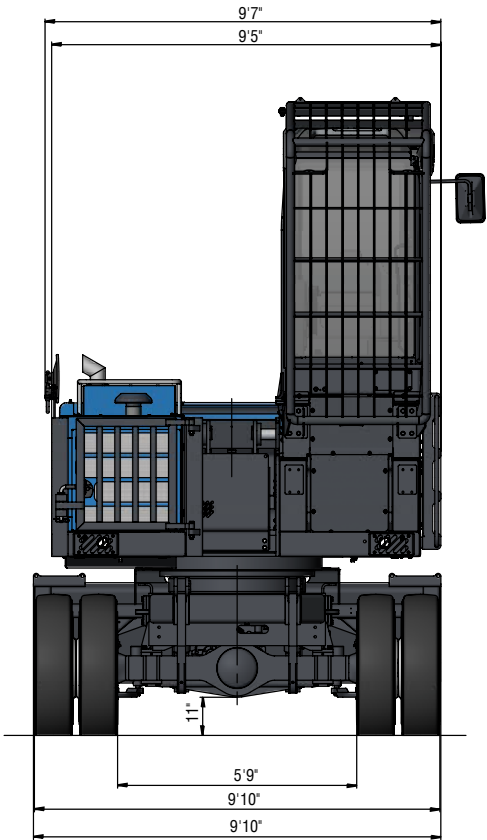


Side view with support blade
all dimensions in ft & in

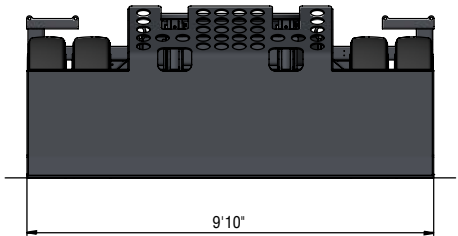


DIMENSIONS

Front view
all dimensions in ft & in

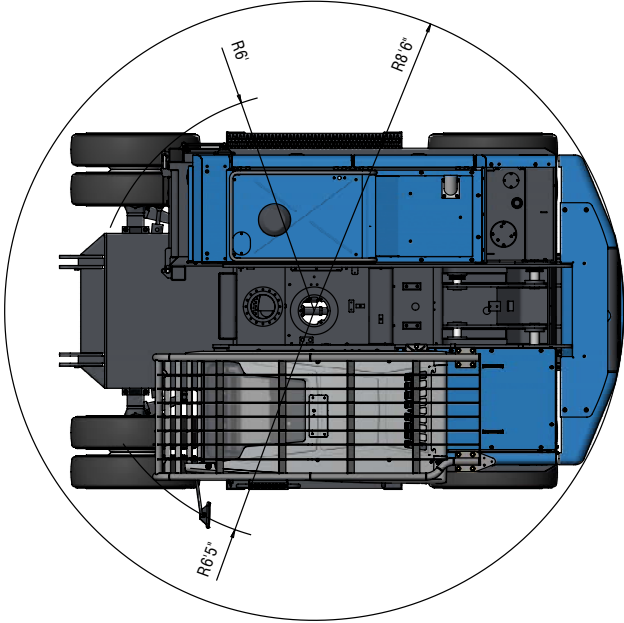


Support blade
all dimensions in ft & in

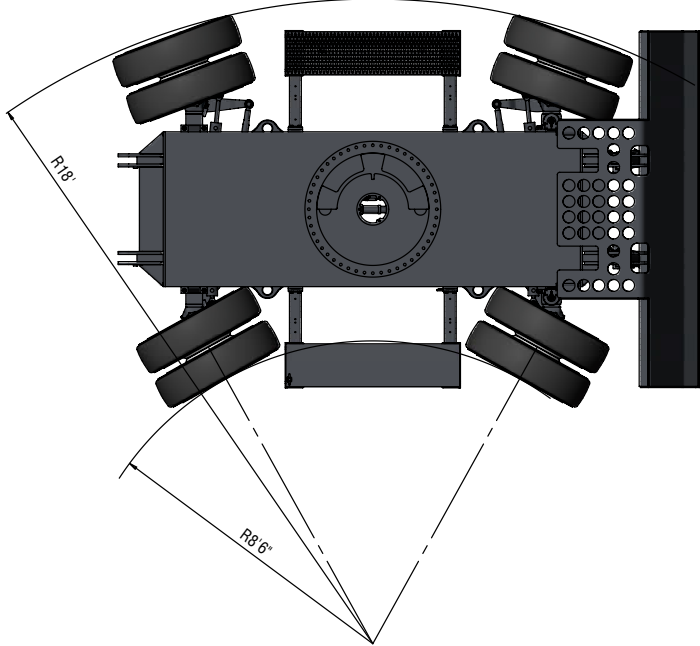


DIMENSIONS

Swing area
all dimensions in ft & in

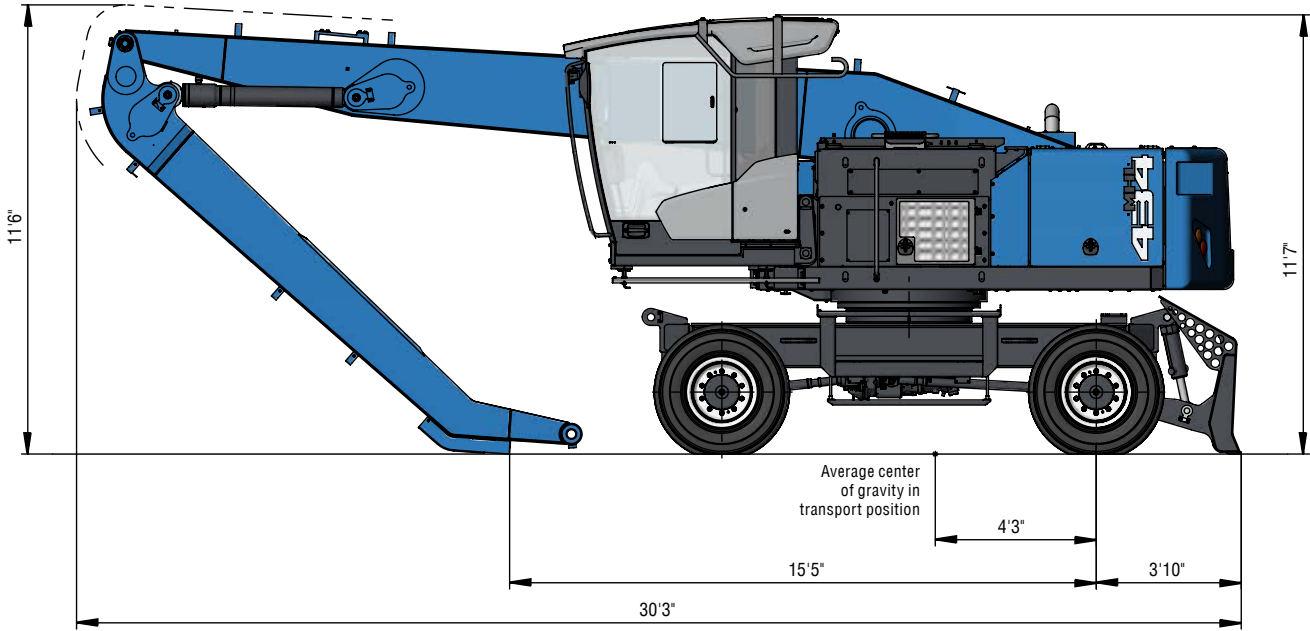


Turning radius
all dimensions in ft & in

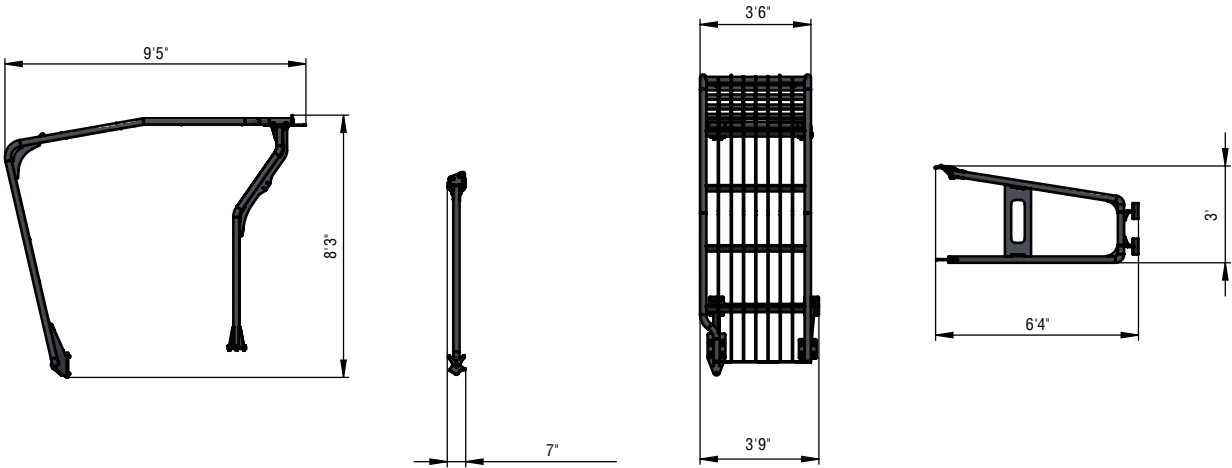


TRANSPORT DIMENSIONS

Side view
all dimensions in ft & in

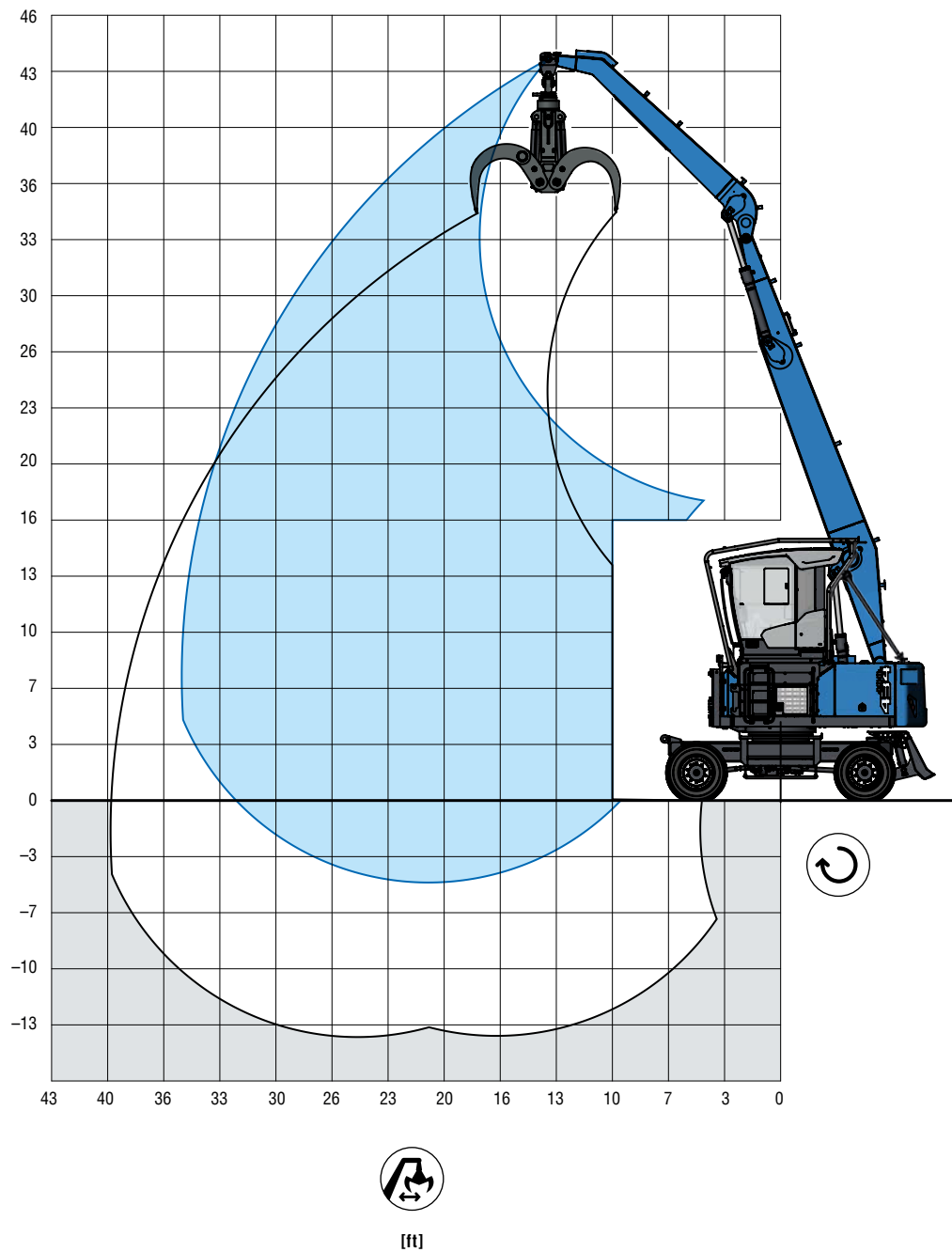


Front and roof guard
all dimensions in ft & in




































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



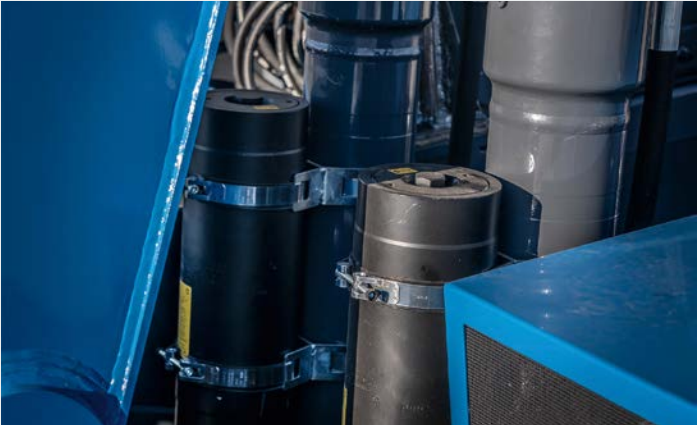
➔ Wireless tyre pressure monitoring



➔ Switch for light in engine bay



➔ Engine radiator protection



➔ Boom cylinder damping system



➔ Front and roof guard for timber application



➔ Welcome home illumination with remote control



➔ Support blade, integrated cylinder protection



➔ Travel-direction detection



➔ External battery terminals



➔ 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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