

# TECHNICAL DATA MHL 250 E



**85 kW**



**14.0 – 15.5 t**



**up to 9.0 m**

# THE NEW “MHL2” SERIES: REVOLUTIONARY FOR THE RECYCLING INDUSTRY.

**Greater mobility and flexibility in material handling.**

**If you want to know what the future holds for material handling within the recycling industry, then look no further than the new MHL2 series from Terex® Fuchs.**

This is our uncompromising response to the ever increasing demands of recycling operators. Instead of refitting existing machine designs, Terex® Fuchs specifically designed the MHL2 series to meet the challenges and conditions that exist in the recycling sector. The result: A new series that offers even more solutions. The MHL250 will be the first model of the new series to hit the market. In spite of its compact design, the MHL250 offers operators an excellent viewing level, unique

for machines of this class. Three different heights of cab position are available in the standard version. As an option, the cab can be raised hydraulically to a viewing level of 5.20 m. This gives operators an unrivalled view into containers and onto walking floors. In order to accommodate the typically diverse conditions in the recycling sector, Terex® Fuchs has extended its new modular design system to include the MHL250. Starting with the standard superstructure, the loading system and undercarriage can be combined or extended as required. For the undercarriage, the following configurations are available: 4-point stabilizers or 2-point stabilizers with support blade. This enables the MHL250 to adapt to individual requirements on site both reliably and precisely.

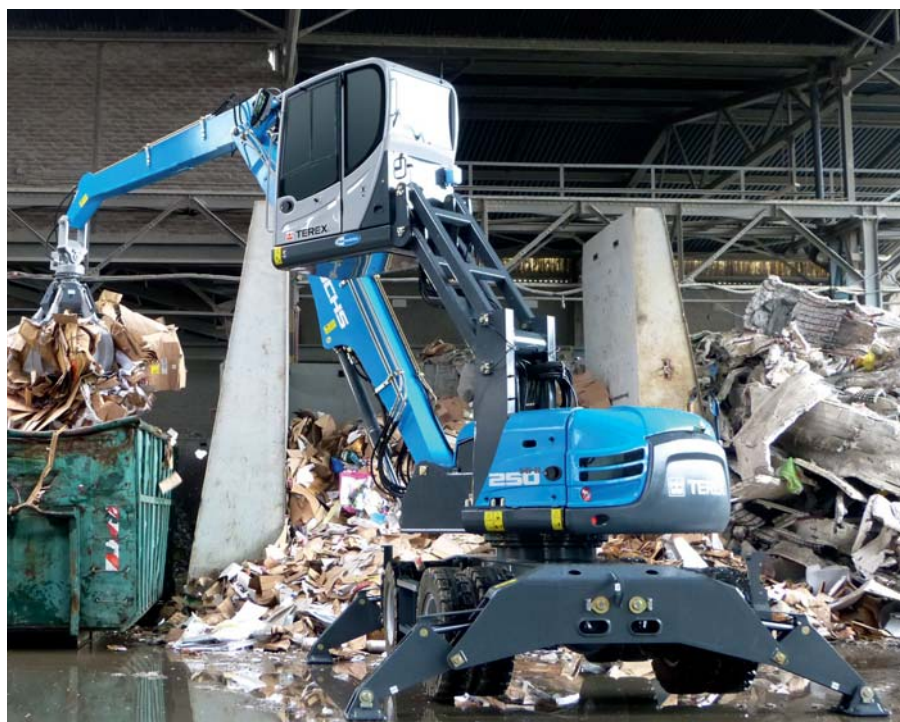
The tires, specifically tailored to the MHL250, feature exceptionally rigid side walls for additional stability – even when operating without static supports. As a result, this machine is highly manoeuvrable and flexible in its application, even though its long reach means that it seldom needs to be moved. The optional cooling system with two physically separated radiators is entirely new to this class of machine. This exceptional high performance system keeps the operating temperature of the MHL250 at an ideal level – an important feature in







recycling sheds with high dust loads. The radiators are designed for easy maintenance and are quick and safe to clean. The diesel particle filter (DPF) fitted as standard is state of the art and provides a significantly improved working environment, which benefits both on-site personnel as well as the environment. Low fuel consumption and long service intervals mean running costs are kept to affordable levels. These technical benefits, together with an attractive price, make the MHL250 a top material handler for recycling, with an outstanding price / performance ratio.



# TECHNICAL DATA

## SERVICE WEIGHT WITHOUT ATTACHMENTS

MHL250 E	14.0 t–15.5 t
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## DIESEL ENGINE

Manufacturer and model	Deutz TCD3.6 L4 with DPF
Design	4-cylinder in-line engine
Type	4 stroke. common rail injection
Engine power	85 kW (116 HP)
Nominal speed	2.000 rpm
Displacement	3.6 l
Cooling System	Water cooled
Exhaust gas standard	COM III B/ EPA Tier IV interim
Usable tank capacity	240 l
Air filter design	Two-stage filter with safety cartridge and pre-separator with discharge valve

## ELECTRICAL SYSTEM

Alternator	14 V / 95 Ah
Starter	12 V / 3.1 kW
Operating voltage	12 V
Battery	12 V / 135 Ah

## TRANSMISSION

Hydrostatic travel drive with automatic adjustment of drawbar pull and speed. 4-wheel drive from reduction gear to front axle via cardan shaft to rear axle. Infinitely variable speed control forward and reverse

Maximum speed mode 1	6 kph
Maximum speed mode 2	20 kph
Turning radius	7.0 m

## SWING DRIVE

Hydrostatic drive with 2-stage planetary gear and axial piston fixed displacement motor also acts as wear-resistant brake. In addition automatically controlled spring-loaded multi-disc brake acting as parking brake

Swing speed	0–10 rpm
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## UNDERCARRIAGE

Front axle	Planetary drive axle with integrated drum brake. rigidly mounted. max. steering angle 30°
Rear axle	Oscillating planetary drive rear axle with integrated drum brake and selectable oscillating axle lock
Outrigger	4-point stabilizers or 2-point stabilizers with support blade
Tires	Pneumatic tires 8× 9.00-20 Solid rubber tires 8× 10.00-20 (as option)
Service brake	Hydraulic single-circuit braking system acting on all wheel pairs (drum brakes)

## HYDRAULIC SYSTEM

Travel hydraulics	Closed circuit independent from working hydraulics
Pump capacity max.	180 l/min
Working pressure max.	420 bar
<b>Working hydraulics:</b> Axial piston variable displacement pump with load sensing. Coupled with a load independent flow distribution. Simultaneous independent control of all movements. Sensitive manoeuvres irrespective of loads.	
Pump capacity max.	190 l/min
Working pressure max.	330 bar
The thermostatically controlled oil circuit ensures that the oil temperature is promptly reached and avoids overheating. Return filter installed in oil tank allows eco-friendly replacement of filter elements.	
Double gear pump for all positioning and swing movements. Pressure cut-off valve for sensitive and energy saving movements.	
Pump capacity max.	76 + 38 l/min
Working pressure max.	230 bar
Hydraulic system	190 l

## CABIN

Spacious, sound-insulated full vision steel cab (ROPS certified). Sliding window in cab door. Thermo windows tinted in green. Skylight thermo window bronze tinted. Large rear window. Front window supported by pneumatic springs. Lockable for ventilation and slidable under cab roof. Windshield washer system. Storage Compartment. Preparation for radio installation. Left hand outside rear-view mirror.

Cab heating with front window defroster by coolant heat exchanger with 3-stage fan. Fresh air and recirculating air filters.

Operator's seat MSG 85 (comfort version). Hydraulic damping. Extra high brackets. Tilt adjustable armrests. Longitudinal-horizontal suspension. Mechanical lumbar support. Safety belt.

Instrument panel on the right hand side of the operator's seat with visual warning device. Hour meter.

Working flood lights H3

Sound level values in compliance with EC directives

# EQUIPMENT

## ENGINE

	STANDARD	OPTION
Diesel particulate filter	●	
Exhaust gas turbocharger	●	
Intercooling	●	
Common rail injection	●	
Interface for engine diagnostics	●	
System-controlled fan drive	●	

## UNDERCARRIAGE

4-point stabilizers*		●
2-point stabilizers and support blade*		●
All wheel drive	●	
Piston rod protection for stabilizer cylinders	●	
Protection kit for dozer blade cylinders		●
Protection kit for transmission shaft		●
Rear axle oscillating lock	●	
Drum brake	●	
Pneumatic tires 8× 9.00-20	●	
Solid rubber tires 8× 10.00-20 (MAGNA)		●
Solid rubber tires 8× 10.00-20 (Solideal BAGGER)		●
Tool box		●
Central grease nipple		●

## UPPER CARRIAGE

Central grease nipple	●	
Automatic lubrication system		●
Reversible fan for radiator and hydraulic oil cooler	●	
Cyclone prefilter		●
Separated cooling system (split radiator system)		●
Additional suction box for oil and water cooler		●

## CAB

Preparation for radio installation	●	
Radio (CD/ USB)		●
FOPS guard		●
Airconditioning		●
Rigid cabin system (3 mounting positions, max. viewing height 3.7 m)	●	
Hydraulically adjustable cabin (max. viewing height 5.2m)		●
Joystick steering		●

## LOADING EQUIPMENT

H3 light packages		●
LED light packages		●
8.8 m multi purpose stick		●
9.0 m straight stick	●	

\* no-additional-cost option

## ASSISTANCE SYSTEMS

	STANDARD	OPTION
Italy package (dead man trigger, overload shut off device)		●
Overload shut off device		●
Overload warning		●
Travel alarm (optical)		●
Rupture valves for boom and stick cylinder		●
Fire extinguisher		●
Combined height and reach limitation		●
Rearview backup camera		●
Terex® Fuchs Telematics System		●

Further optional equipment available on request!

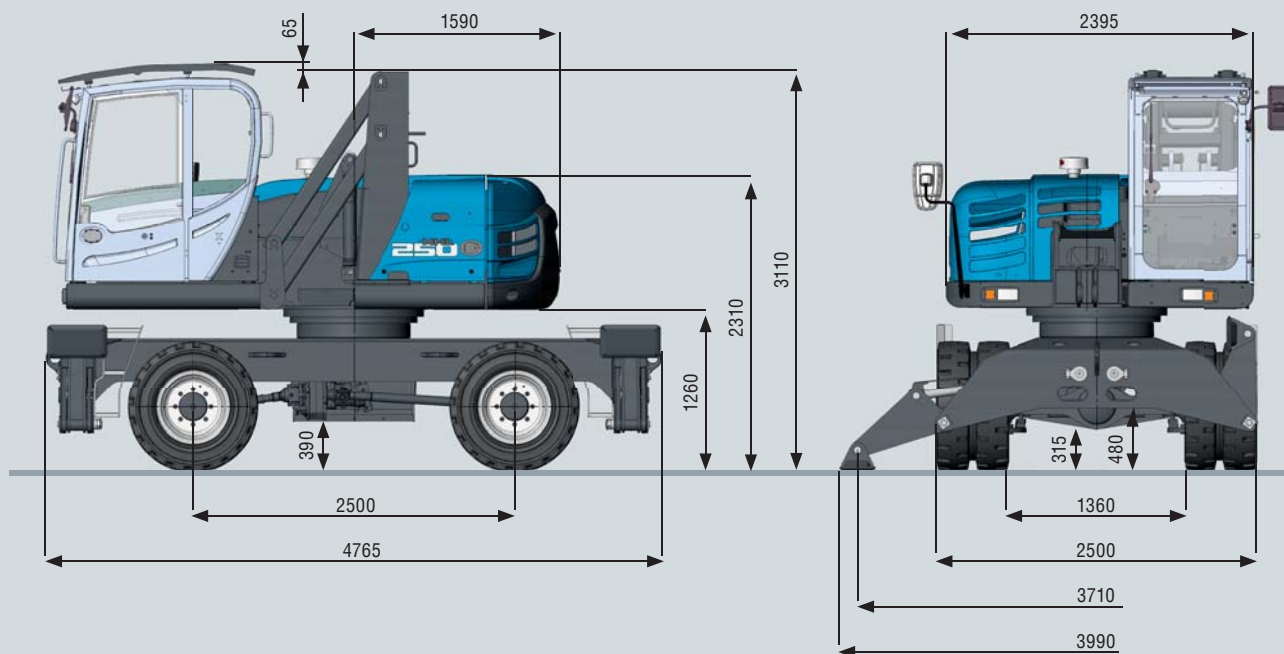


# DIMENSIONS MHL250 E

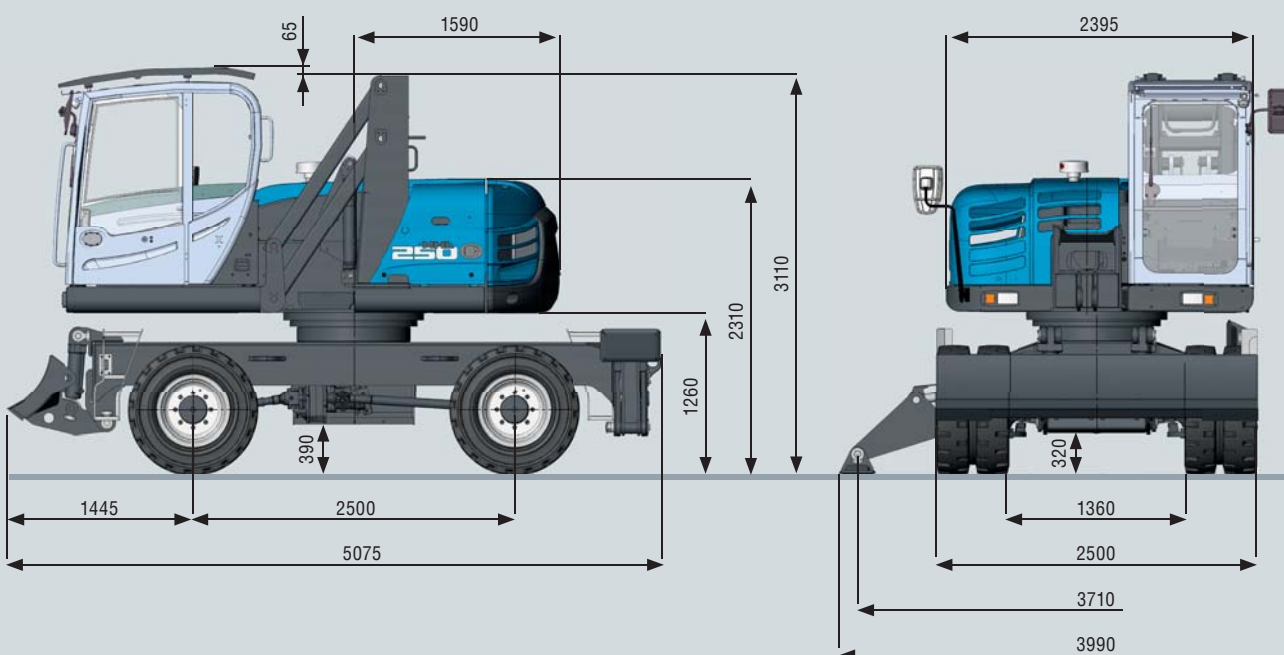
## HYDRAULICALLY ADJUSTABLE CABIN

All dimensions in mm

Hydraulically adjustable cabin: undercarriage equipped with 4-point stabilizers



Hydraulically adjustable cabin: undercarriage equipped with 2-point stabilizers and support blade

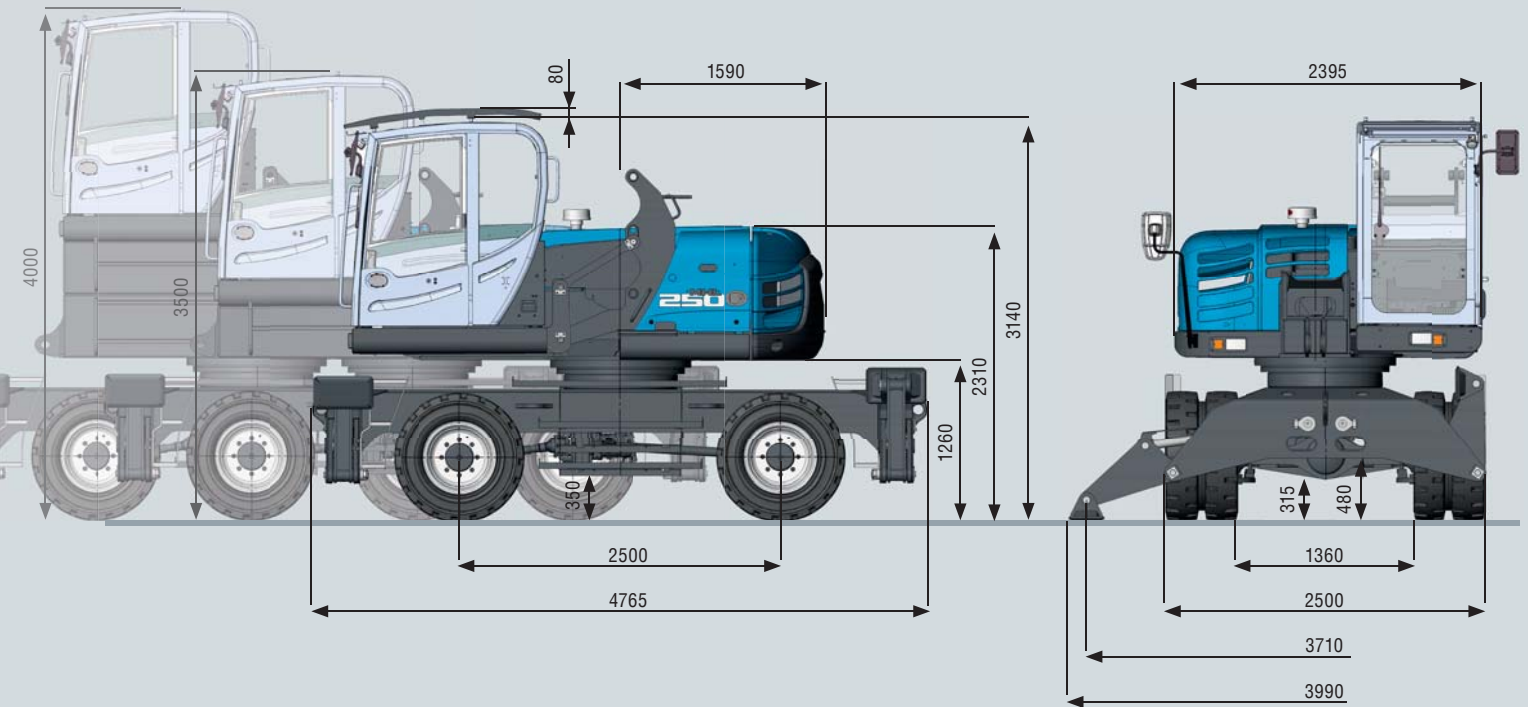


# DIMENSIONS MHL250 E

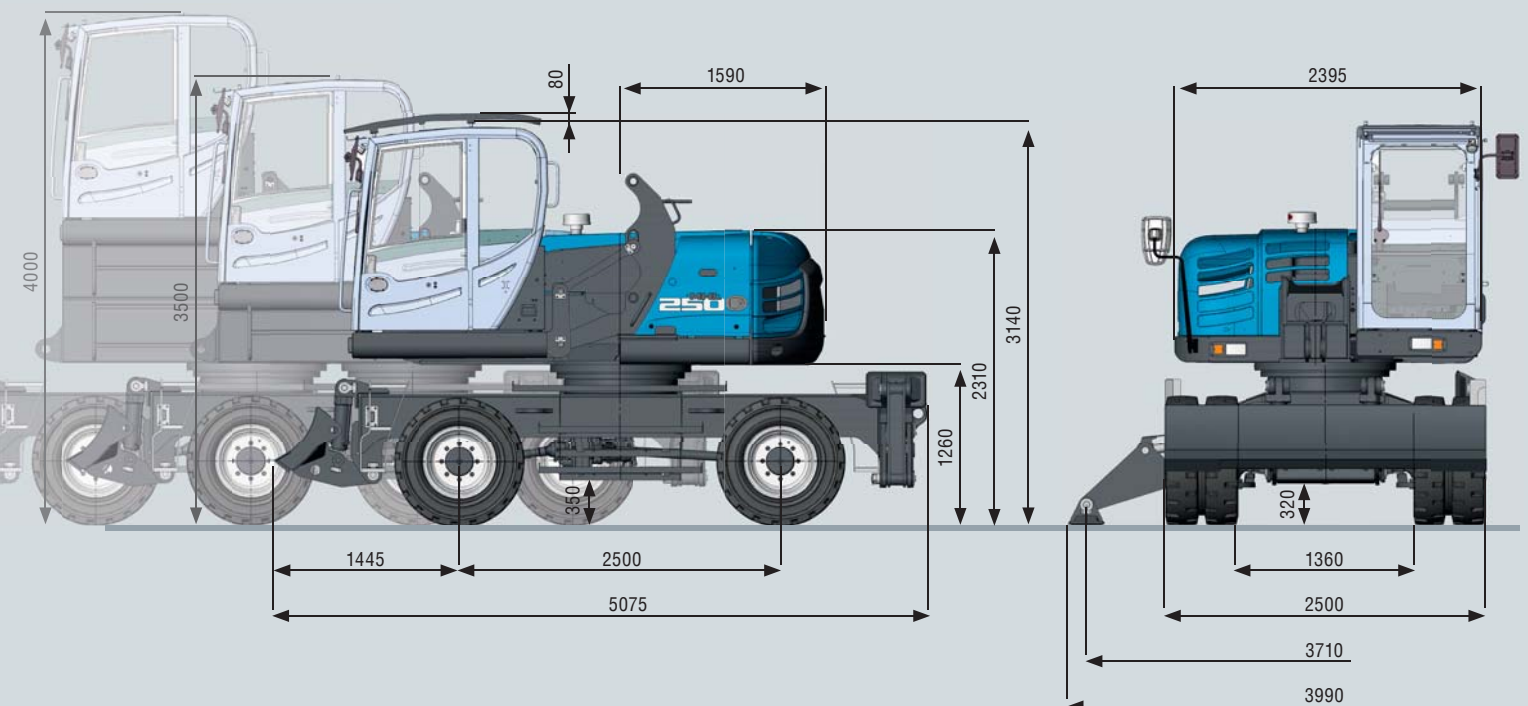
## RIGID CABIN SYSTEM

All dimensions in mm

**Rigid cabin system:** undercarriage equipped with 4-point stabilizers



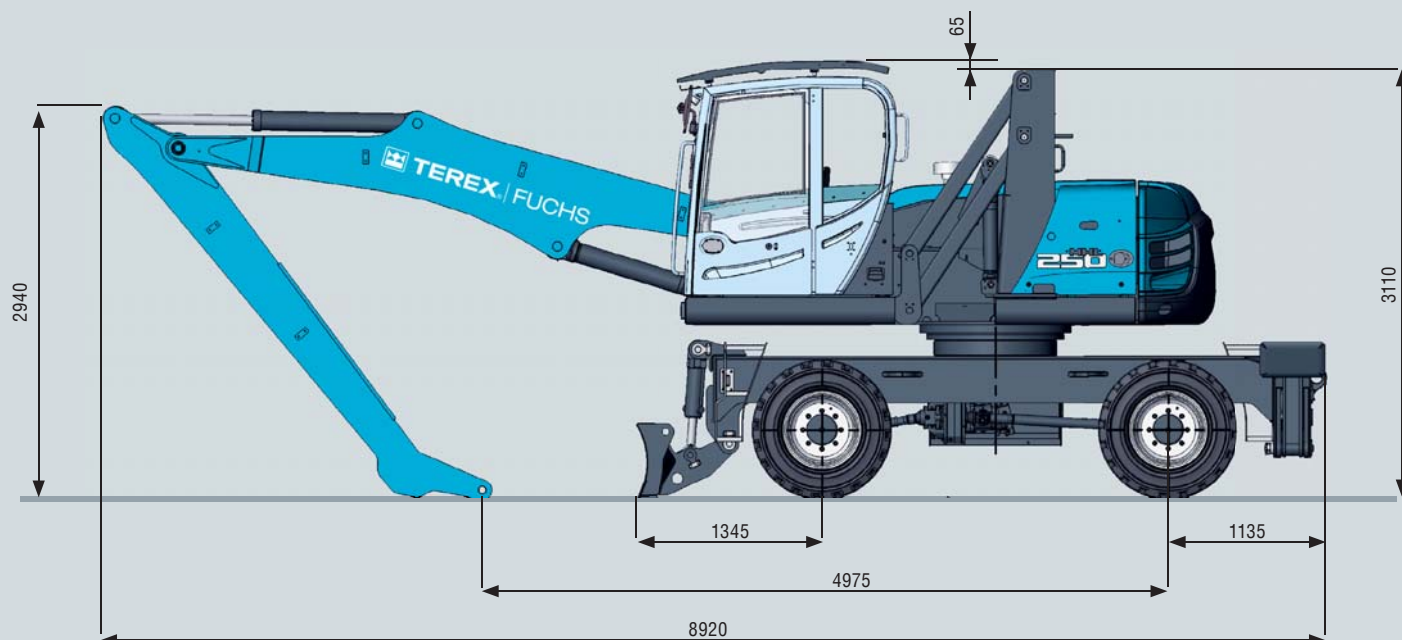
**Rigid cabin system:** undercarriage equipped with 2-point stabilizers and support blade



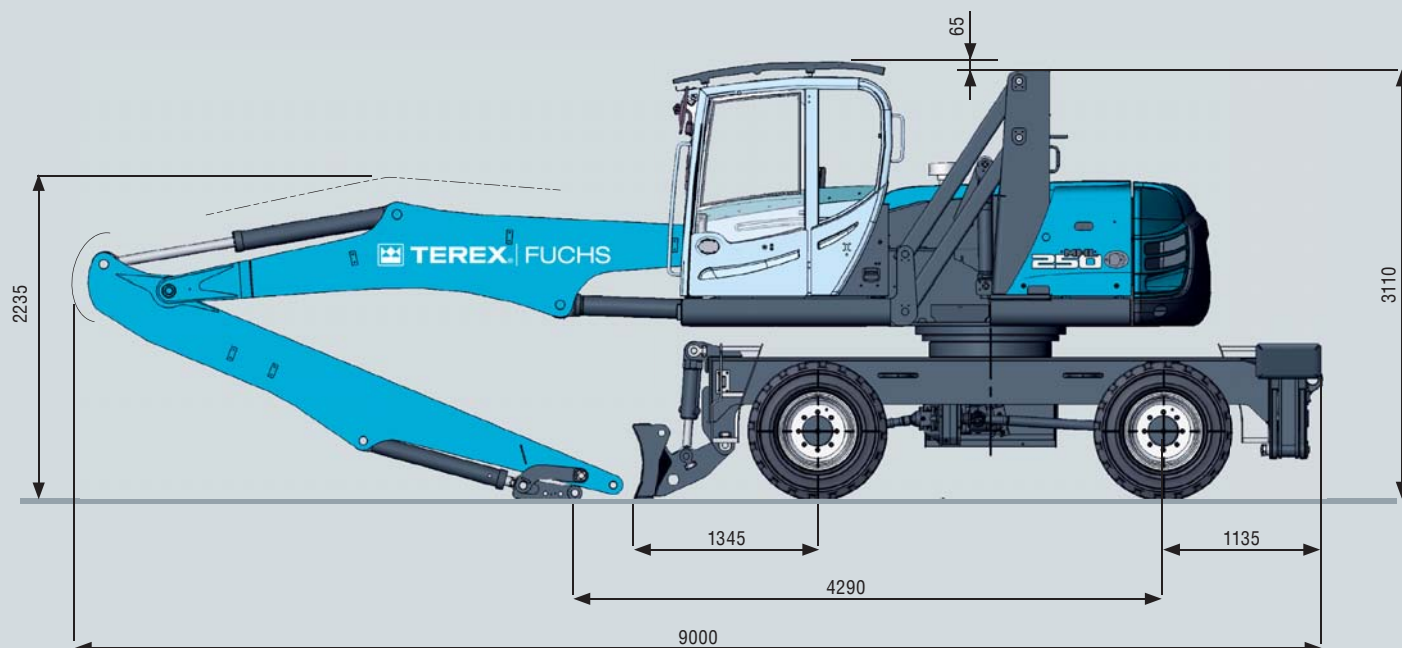
## TRANSPORT DIMENSIONS MHL250 E

All dimensions in mm

Loading equipment 9.0 m and dipperstick



Loading equipment 8.8 m and multi-purpose stick





# THE MODULAR SYSTEM

## Attachments

### Cactus grab

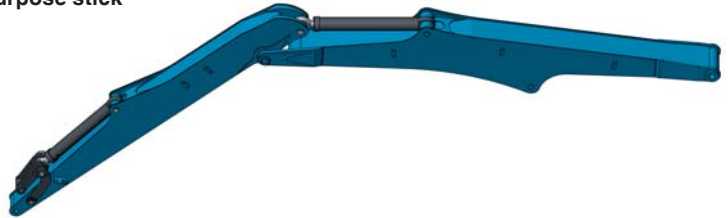


### Sorting grapple

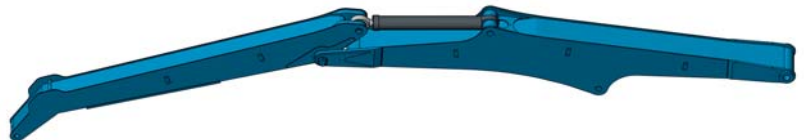


## Work equipment

### 8.8 m with multi-purpose stick



### 9.0 m with straight loading stick



## Rigid cabin

Viewing height: max. 3.7 m



## Uppercarriage **MHL250 E**



## Elevation cabin

Viewing height: max. 5.2 m



## Undercarriage

### 4-point stabilizers



### 2-point stabilizers and support blade



# WORKING RANGES / LOAD CAPACITIES

## 9.0 M REACH WITH DIPPERSTICK

### Loading system

Boom 4.7 m  
Dipperstick 3.3 m  
Cactus grab

## RECOMMENDED ATTACHMENTS

**Cactus grab up to 0.4 m³**  
(for recycling applications)

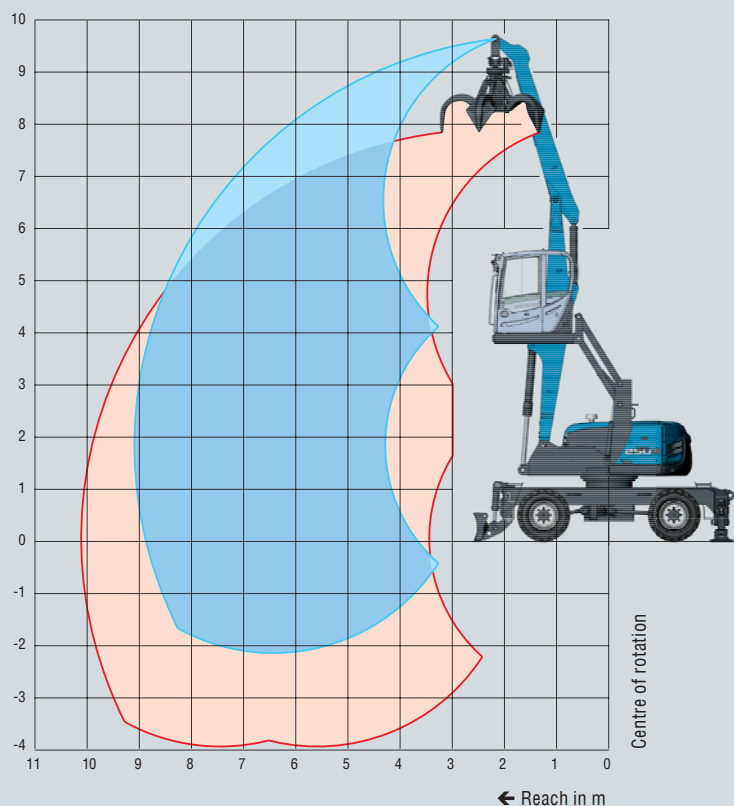
Open or (half)-closed bowls

**Light material grab up to 0.56 m³**

Open or (half)-closed bowls

Check the maximum operating pressure and oil flow of the attachment for compatibility

The lift capacity values are stated in metric tons (t). The pump pressure is 350 bar. In accordance with ISO 10567 the lift capacity values represents 75% 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 in the longitudinal direction of the undercarriage. The values for "not supported" only apply via the steering axle or the locked oscillating axle. 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 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. For object handling application the machine has to be supported on a level ground.



Height [m]	Undercarriage stabilisation	Reach [m]			
		4.5	6	7.5	9
7.5	Without stabilizers	(2,7°)	(2,6°)		
	With 4-pt stabilizers	2,7° (2,7°)	2,6° (2,6°)		
	With 2-pt / support blade	2,7° (2,7°)	2,6° (2,6°)		
6	Without stabilizers	(2,5°)	(2,4°)	(1,8)	
	With 4-pt stabilizers	2,5° (2,5°)	2,4° (2,4°)	2,3° (2,3°)	
	With 2-pt / support blade	2,5° (2,5°)	2,4° (2,4°)	2,3° (2,3°)	
4.5	Without stabilizers	(2,3°)	(2,5)	(1,8)	
	With 4-pt stabilizers	2,3° (2,3°)	2,6° (2,6°)	2,4° (2,4°)	
	With 2-pt / support blade	2,3° (2,3°)	2,6° (2,6°)	2,4° (2,4°)	
3	Without stabilizers	(3,7)	(2,4)	(1,7)	(1,3)
	With 4-pt stabilizers	4,0° (4,0°)	3,0° (3,0°)	2,5° (2,5°)	2,0° (2,0°)
	With 2-pt / support blade	4,0° (4,0°)	3,0° (3,0°)	2,4 (2,5°)	1,8 (2,0°)
1.5	Without stabilizers	(3,4)	(2,3)	(1,6)	(1,3)
	With 4-pt stabilizers	5,0° (5,0°)	3,4° (3,4°)	2,7° (2,7°)	2,2° (2,2°)
	With 2-pt / support blade	4,9 (5,0°)	3,2 (3,4°)	2,3 (2,7°)	1,8 (2,2°)
0	Without stabilizers	(3,2)	(2,2)	(1,6)	
	With 4-pt stabilizers	5,4° (5,4°)	3,6° (3,6°)	2,7° (2,7°)	
	With 2-pt / support blade	4,7 (5,4°)	3,1 (3,6°)	2,2 (2,7°)	
-1.5	Without stabilizers	(3,2)	(2,1)	(1,6)	
	With 4-pt stabilizers	5,1° (5,1°)	3,5° (3,5°)	2,5° (2,5°)	
	With 2-pt / support blade	4,6 (5,1°)	3,0 (3,5°)	2,2 (2,5°)	
Reach max. 9.09					
1.85	Without stabilizers				(1,2)
	With 4-pt stabilizers				2,0° (2,0°)
	With 2-pt / support blade				1,7 (2,0°)

# WORKING RANGES / LOAD CAPACITIES

## 8.8 M REACH WITH MULTI-PURPOSE STICK

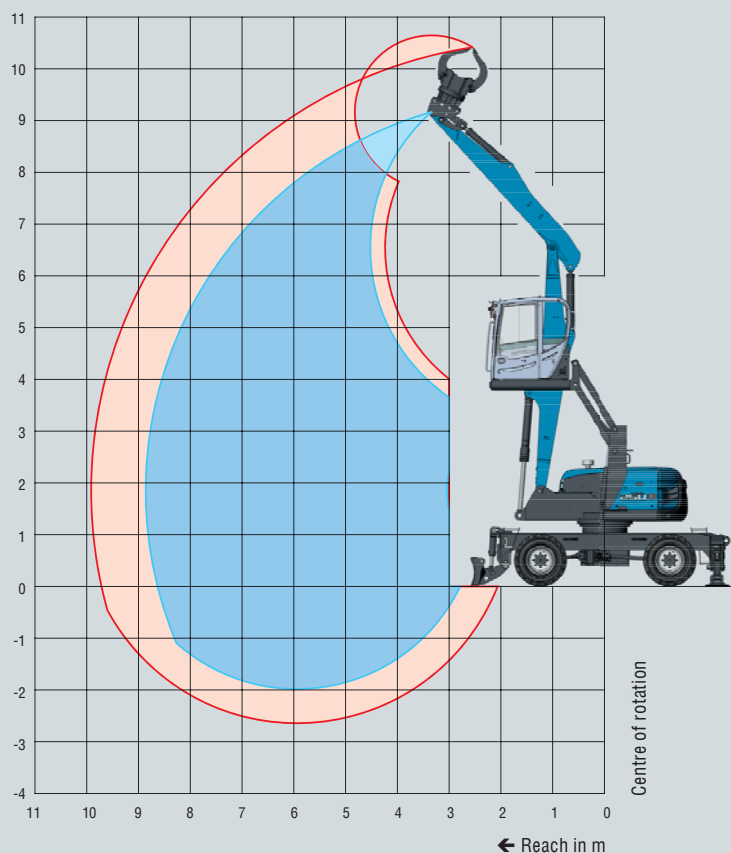
**Loading system** Boom 4.7 m  
Multi-purpose stick 3.5 m  
Sorting grab

## RECOMMENDED ATTACHMENTS

**Sorting grab up to 400 l**

Check the maximum operating pressure and oil flow of the attachment for compatibility

The lift capacity values are stated in metric tons (t). The pump pressure is 350 bar. In accordance with ISO 10567 the lift capacity values represents 75% 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 in the longitudinal direction of the undercarriage. The values for "not supported" only apply via the steering axle or the locked oscillating axle. 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 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. For object handling application the machine has to be supported on a level ground.



Height [m]	Undercarriage stabilisation	Reach [m]			
		3	4.5	6	7.5
7.5	Without stabilizers		(2,3°)	(2,2°)	
	With 4-pt stabilizers		2,3° (2,3°)	2,2° (2,2°)	
	With 2-pt / support blade		2,3° (2,3°)	2,2° (2,2°)	
6	Without stabilizers		(2,2°)	(2,1°)	(1,6)
	With 4-pt stabilizers		2,2° (2,2°)	2,1° (2,1°)	1,8° (1,8°)
	With 2-pt / support blade		2,2° (2,2°)	2,1° (2,1°)	1,8° (1,8°)
4.5	Without stabilizers		(2,6°)	(2,3°)	(1,6)
	With 4-pt stabilizers		2,6° (2,6°)	2,3° (2,3°)	2,1° (2,1°)
	With 2-pt / support blade		2,6° (2,6°)	2,3° (2,3°)	2,1° (2,1°)
3	Without stabilizers	(6,0°)	(3,6)	(2,3)	(1,6)
	With 4-pt stabilizers	6,0° (6,0°)	3,6° (3,6°)	2,7° (2,7°)	2,2° (2,2°)
	With 2-pt / support blade	6,0° (6,0°)	3,6° (3,6°)	2,7° (2,7°)	2,2° (2,2°)
1.5	Without stabilizers		(3,2)	(2,1)	(1,5)
	With 4-pt stabilizers		4,7° (4,7°)	3,1° (3,1°)	2,4° (2,4°)
	With 2-pt / support blade		4,7° (4,7°)	3,0 (3,1°)	2,1 (2,4°)
0	Without stabilizers	(2,8°)	(3,0)	(2,0)	(1,4)
	With 4-pt stabilizers	2,8° (2,8°)	5,1° (5,1°)	3,4° (3,4°)	2,5° (2,5°)
	With 2-pt / support blade	2,8° (2,8°)	4,5 (5,1°)	2,9 (3,4°)	2,1 (2,5°)
-1.5	Without stabilizers		(2,9)	(1,9)	(1,4)
	With 4-pt stabilizers		4,9° (4,9°)	3,3° (3,3°)	2,3° (2,3°)
	With 2-pt / support blade		4,4 (4,9°)	2,8 (3,3°)	2,0 (2,3°)
Reach max. 8.85					
1.85	Without stabilizers				(1,1)
	With 4-pt stabilizers				1,9° (1,9°)
	With 2-pt / support blade				1,7 (1,9°)



# GET A HANDLE ON FLEET MANAGEMENT

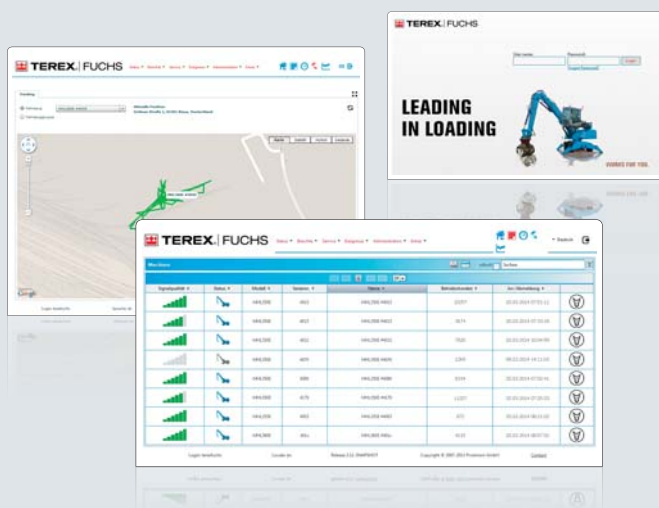
## TEREX® FUCHS TELEMATICS SYSTEM: RECOGNIZE AND OPTIMIZE POTENTIAL

The new Terex® Fuchs Telematics system: know exactly how and where everything is running. The new Terex® Fuchs Telematics system offers a modern solution to help you analyze and optimize the efficiency of your machines. The Terex® Fuchs Telematics system records and communicates valuable information on the operating status of each individual machine. Where are the machines? How are they working? Is a service check pending? Take advantage of this advanced software and get a handle on your fleet management with the tool that connects for you.



## ALL-IN-ONE MACHINE MANAGEMENT

### EVERYTHING AT A GLANCE: OPERATING DATA, MACHINE STATUS, GPS DATA



### Record, display, and analyse data: high efficiency through precise information

- Available online anywhere and at any time\*: comprehensive information on the GPS location, start and stop times, fuel consumption, operating hours, maintenance status, and much more.
- User-friendly interface: displays information clearly for at a glance metrics and diagnostics. Take action before damage occurs: predetermined maintenance intervals are signaled and error messages are displayed in plain text messages.
- The Terex® Fuchs Telematics system is optionally available or can be retrofitted into existing machines to help control your operating costs and keep your machines in top shape.

\* Internet connection required

[www.terex-fuchs.com](http://www.terex-fuchs.com)

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