

MATERIAL HANDLER | F-SERIES

# MHL 331 MHL 335



115 kW



22.9–27.0 t



up to 12.0 m



**FUCHS**  
A TEREX BRAND

# TECHNICAL DATA

## OPERATING WEIGHT WITHOUT ATTACHMENTS

MHL331 F	22.9–25.7 t
MHL335 F	24.0–27.0 t

## DIESEL ENGINE

<b>Manufacturer and model</b>	Deutz TCD 4.1 L4
<b>Design</b>	4-cylinder in-line engine
<b>Control</b>	EMR IV
<b>Method of operation</b>	4-cycle diesel, common rail open-combustion-chamber injection, turbocharger with charge cooler
<b>Engine power</b>	115 kW
<b>Rated speed</b>	2000 min <sup>-1</sup>
<b>Displacement</b>	4.1 l
<b>Cooling system</b>	Water and charge air cooling with temperature controlled fan speed
<b>Exhaust gas standard</b>	EPA Tier 4 interim / EU Stage IIIB
<b>Air filter type</b>	Two-stage filter with safety valve
<b>Useable tank capacity</b>	300 l

## ELECTRICAL SYSTEM

<b>Generator</b>	28 V / 100 A
<b>Operating voltage</b>	24 V
<b>Battery</b>	2 × 12 V / 110 Ah / 750 A (according to EN)
<b>Lighting system</b>	2 × LED headlamps, turn indicators and tail lights
<b>Optional equipment</b>	11 kW or 13 kW generator with controls and insulation monitoring

## TRANSMISSION

<b>Travel speed first gear</b>	max. 5 km/h
<b>Travel speed 2nd gear</b>	max. 18 km/h
<b>Gradeability</b>	max. 40 %
<b>Turning radius MHL331 F</b>	7.9 m
<b>Turning radius MHL335 F</b>	8.3 m

## SWING DRIVE

<b>Slew ring</b>	Internally geared, double-row ball turning ring
<b>Drive</b>	2-stage planetary gear with integrated multi-disc brake
<b>Uppercarriage swing speed</b>	0–7.5 min <sup>-1</sup> variable
<b>Rotating interlock</b>	electrically activated
<b>Max. pivoting moment</b>	49 kNm

## UNDERCARRIAGE MHL331 F

<b>Front axle</b>	Planetary drive axle with integrated multi-disc brake, rigidly mounted, max. steering angle: 29°, width ca. 2.500 mm
<b>Rear axle</b>	Oscillating planetary drive rear axle with integrated multi-disc brake and selectable oscillating lock, width ca. 2.500 mm
<b>Stabilization</b>	4-point stabilizers
<b>Tires</b>	Solid rubber, elastic tires 8× 10.00-20

## UNDERCARRIAGE MHL335 F

<b>Front axle</b>	Planetary drive axle with integrated multi-disc brake, rigidly mounted, max. steering angle: 29°, width ca. 2.700 mm
<b>Rear axle</b>	Oscillating planetary drive rear axle with integrated multi-disc brake and selectable oscillating lock, width ca. 2.700 mm
<b>Stabilization</b>	4-point stabilizers
<b>Tires</b>	Solid rubber, elastic tires 8× 10.00-20

## BRAKE SYSTEM

<b>Service brake</b>	A hydraulically activated single-circuit brake system that works on all four pairs of wheels
<b>Parking brake</b>	Electrically activated disc brake on the travel drive that works on both axes

## HYDRAULIC SYSTEM

LINDE mobile hydraulic system with load limit control and fuelsaving power demand control. Separate hydraulic oil cooler, temperature-controlled fan speed, with optional reversing function

<b>Max. Delivery rate</b>	380 l/min
<b>Operating pressure</b>	320 / 360 bar
<b>Hydraulic fluid tank</b>	305 l
<b>Hydraulic oil tank</b>	320 l usable tank capacity

## OPERATOR'S CAB

<b>Cab</b>	Infinitely variable hydraulic height-adjustment with eye level up to 5.30 m above ground. Flexibly mounted. Joystick steering; sliding door. Sound-deadened; heat-insulated windows; windshield with pull-down sunblind that slides under the cab roof; viewing window on cab roof; sliding window in cab door, sliding door
<b>Air-conditioning</b>	Automatic air-conditioning. Infinitely variable heating with 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles (hot water system).
<b>Operator's seat</b>	Air-cushioned comfort-seat with integrated headrest, safety belt and lumbar support, seat heating with integrated A/C function optional. Comfortable operation with multi-purpose adjustment options for seat position, seat inclination, seat cushion placement in relation to armrests and pilot control units. Articulating armrest and joysticks.
<b>Monitoring</b>	Ergonomic layout; anti-glare instrumentation. Multifunction display, automatic monitoring and recording of abnormal operating conditions (including all hydraulic oil filters, hydraulic oil temperature (cold/hot) – coolant temperature and charge air temperature – diesel particulate filter load), visual and audible warning indication with shutdown of pilot controls/engine power reduction. Diagnosis of individual sensors possible via the multifunction display. Rear view camera and side view camera.
<b>Sound levels</b>	LW(A) = 104 dB(A) (guaranteed) in accordance with directive 2000/14/EC

## OFFICIAL APPROVALS

Certified in accordance with CE regulations



## EQUIPMENT

ENGINE	Standard	Option
Charge air cooling	●	
Direct electronic fuel injection/common rail	●	
Automatic idle	●	
Engine preheating		●
Engine diagnostics interface	●	
System-controlled fan drive with fan speed monitoring	●	

### UNDERCARRIAGE

All-wheel drive with differential	●	
Multi-disc brake	●	
Rear axle oscillating lock	●	
2-speed powershift transmission		●
4-point stabilizers	●	
Stabilizer cylinders with integrated two-way check valves	●	
Piston rod protection on stabilizer cylinders	●	
Stabilizer plates 500 × 350 mm	●	
4-point stabilizers, individually controllable		●
Tool box	●	
Special paint (customer paint work)		●

### UPPERCARRIAGE

Separate cooling systems (combi-cooler for engine and hydraulic oil cooler)	●	
Cooling system fan speeds controlled by operating parameters	●	
Fan drive reversing function	●	
Lockable maintenance hatches, with gas struts	●	
Automatic central lubrication system	●	
Rear view camera	●	
Side view camera	●	
Travel alarm		●
Electric refuelling pump		●
Lighting protection		●
Special paint (customer paint work)		●

### CAB

	Standard	Option
Hydraulically adjustable cab	●	
3-layer glass with protection film	●	
Sliding window in cab door	●	
Glazed roof panel	●	
Reinforced glass (windscreen and roof panel)		●
Windshield washer system	●	
Roof washer system		●
Air-cushioned operator seat with headrest, seatbelt, and lumbar support	●	
Seat heating with integrated A/C function		●
Joystick steering	●	
Steering column, height and tilt adjustable		●
Automatic air conditioning system	●	
Independent heating system		●
Multi-function display	●	
Document clip	●	
Protective grilles to front and roof		●
12V transformer		●
Radio USB & Bluetooth	●	
12V socket	●	
Fire extinguisher, dry powder		●

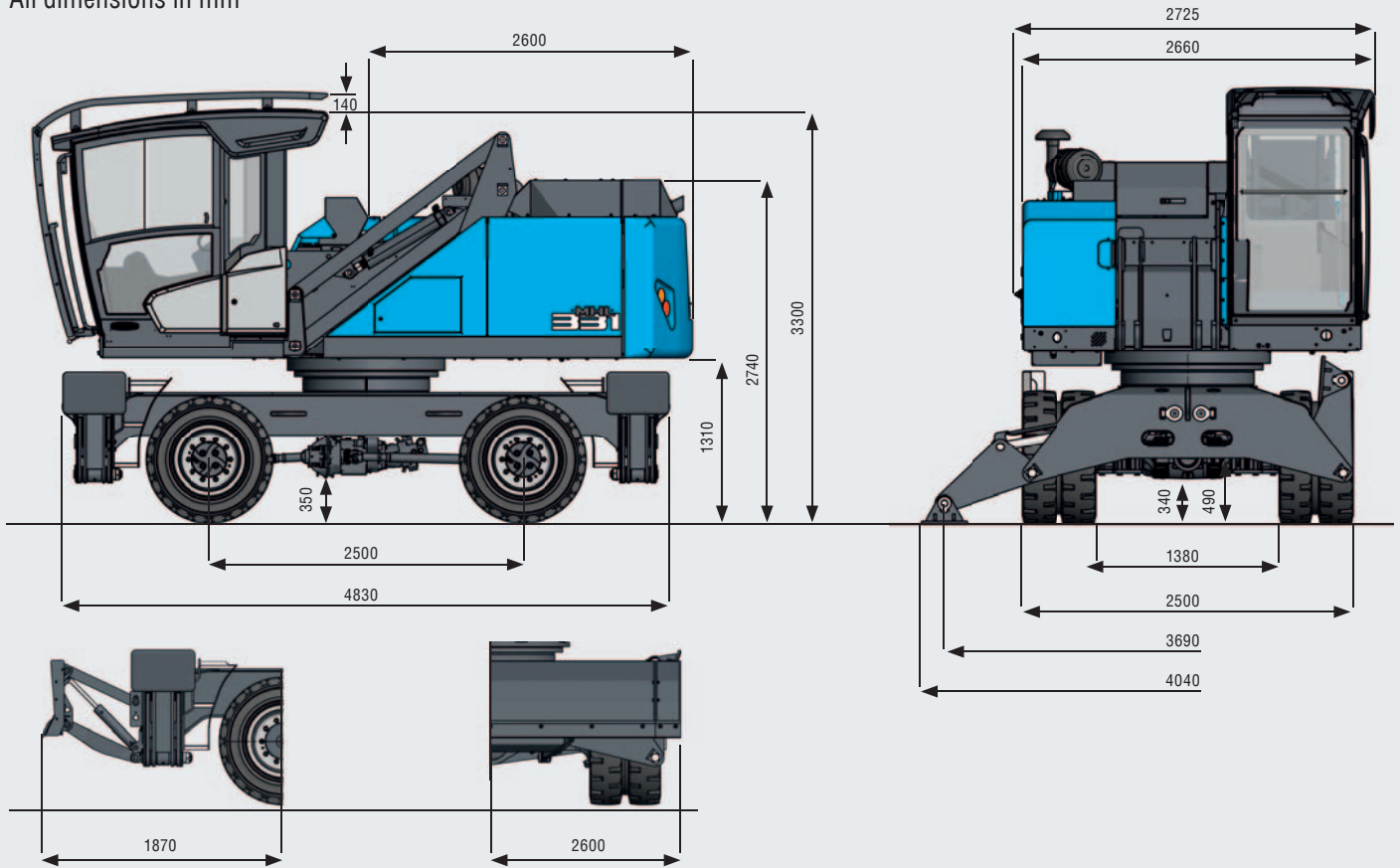
### EQUIPMENT

11 kW DC generator with controls		●
13 kW DC generator with controls		●
Close proximity range limiter for dipperstick	●	
Coolant and hydraulic oil level monitoring system	●	
Filter system for attachments		●
Hose rupture valve for boom cylinder		●
Hose rupture valve for stick cylinder		●
Overload and work area control		●
Overload warning device		●
Quick coupling on dipperstick		●
Dipperstick impact protection		●
Active cyclone prefilter (TOP AIR)		●
Hydraulic oil preheating 230 V		●
Lubrication of the grab suspension by central lubrication system	●	
Light packages LED		●
LED front headlights	●	
Fuchs Telematics System	●	

Further optional equipment available on request!

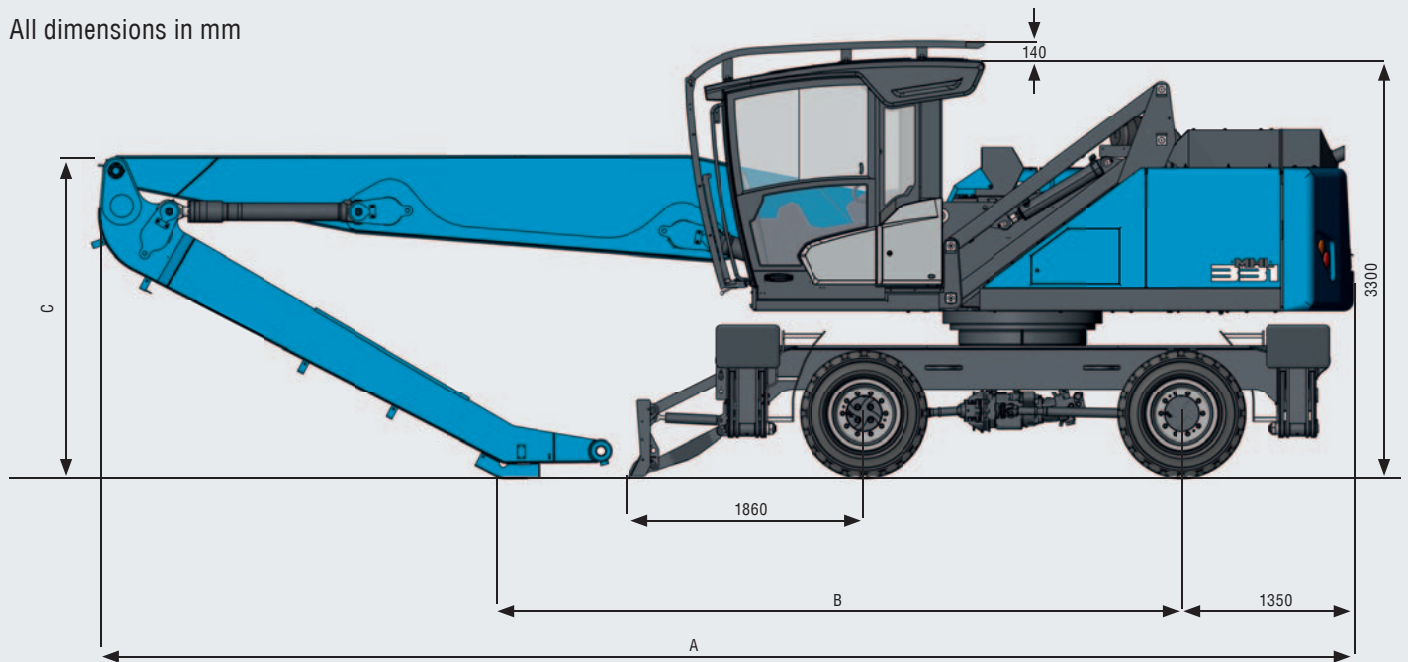
# DIMENSIONS

All dimensions in mm



# TRANSPORT DIMENSIONS

All dimensions in mm



Dimensions	Reach 10.7 m (multi-purpose stick)	Reach 11 m	Reach 12 m
A	10,100 mm	10,075 mm	10,030 mm
B	5,385 mm	5,310 mm	4,240 mm
C	2,730 mm	2,730 mm	3,030 mm



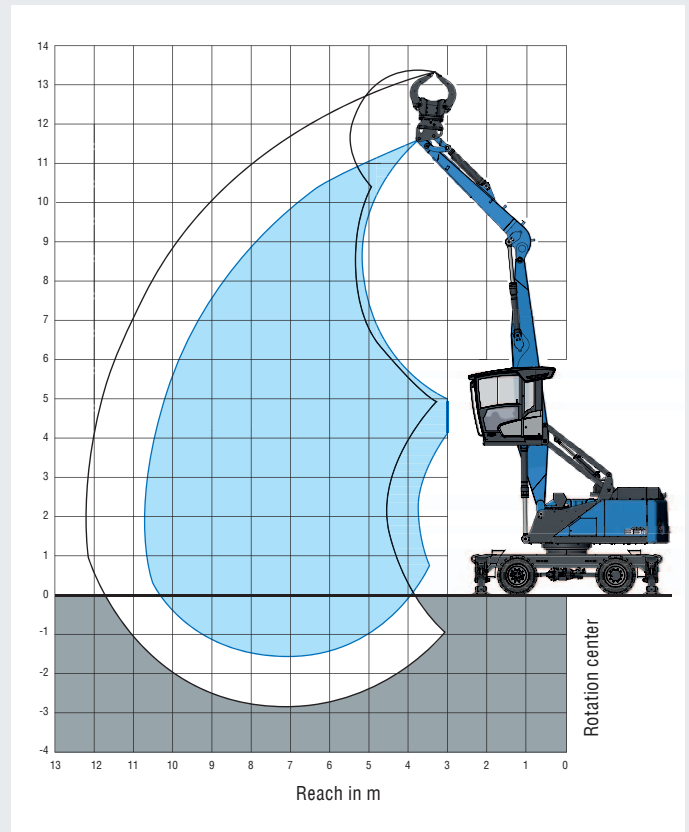


# WORKING RANGE

## 10.7 M REACH WITH MULTI-PURPOSE STICK

<b>Loading equipment</b>	Boom 6.5 m
	Dipperstick 4.0 m
	Sorting grapple

The lift capacity values are stated in metric tons (t). The pump pressure is 360 bar. In accordance with ISO 10567 the lift capacity value 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 hock, 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.



# LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]				
		4.5	6	7.5	9	10.5
9	not supported		(5.0°)	(3.4)		
	4-point supported		6.4° (6.4°)	5.0° (5.0°)		
7.5	not supported		(4.9)	(3.4)	(2.4)	
	4-point supported		6.4° (6.4°)	5.4 (5.7°)	4.0° (4.0°)	
6	not supported	(7.7)	(4.8)	(3.3)	(2.4)	
	4-point supported	8.3° (8.3°)	6.8° (6.8°)	5.4 (5.9°)	3.9 (4.9)	
4.5	not supported	(7.1)	(4.5)	(3.2)	(2.3)	
	4-point supported	9.8° (9.8°)	7.5 (7.6°)	5.2 (6.3°)	3.9 (4.8)	
3	not supported	(6.4)	(4.2)	(3.0)	(2.2)	(1.7)
	4-point supported	11.4 (11.8°)	7.1 (8.4°)	5.0 (6.3)	3.8 (4.7)	2.9 (3.7)
1.5	not supported	(5.8)	(3.9)	(2.8)	(2.1)	(1.7)
	4-point supported	7.6° (7.6°)	6.8 (8.7)	4.8 (6.1)	3.7 (4.6)	2.9 (3.6)
0	not supported	(5.6)	(3.7)	(2.7)	(2.1)	
	4-point supported	6.3° (6.3°)	6.6 (8.5)	4.7 (6.0)	3.6 (4.5)	
-1.5	not supported			(2.7)		
	4-point supported			4.6 (5.9)		
		<b>Reach max. 10.7 m</b>				
2.0	not supported					(1.6)
	4-point supported					2.8 (3.6)

# WORKING RANGE

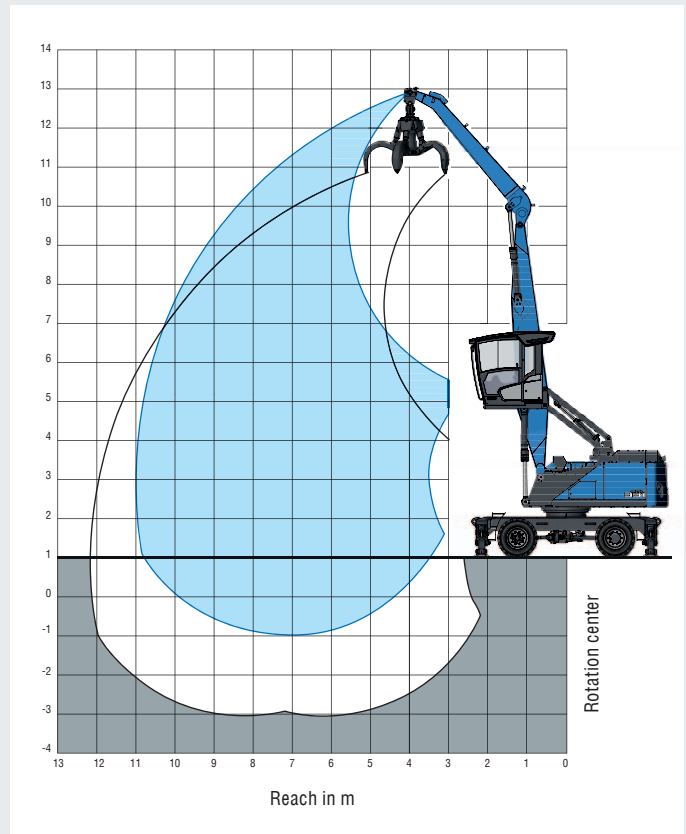
## 11 M REACH WITH DIPPERSTICK

Loading equipment	Boom 6.5 m
	Dipperstick 4.4 m
	Cactus grab 0.6 m <sup>3</sup> open

## RECOMMENDED ATTACHMENTS

Fuchs cactus grab 0.4 m <sup>3</sup>	Open or half-closed
Fuchs cactus grab 0.6 m <sup>3</sup>	Open or half-closed
Fuchs cactus grab 0.8 m <sup>3</sup>	Open or half-closed
Clamshell grab 1.2 m <sup>3</sup>	Density of materials handled up to 1400 kg/m <sup>3</sup>
Lift hook	10 t

The lift capacity values are stated in metric tons (t). The pump pressure is 360 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.



# LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]				
		4.5	6	7.5	9	10.5
10.5	not supported		(5.2°)			
	4-point supported		5.6° (5.6°)			
9	not supported		5.3	3.6		
	4-point supported		6.3° (6.3°)	5.8° (5.6°)		
7.5	not supported		5.2	3.7	2.7	
	4-point supported		6.4° (6.4°)	5.7° (5.8°)	4.2° (4.9°)	
6	not supported		5.1	3.6	2.6	
	4-point supported		6.8° (6.8°)	5.6° (6.0°)	4.2° (5.2)	
4.5	not supported	7.5	4.8	3.4	2.6	2
	4-point supported	9.6° (9.6°)	7.6° (7.6°)	5.5° (6.4°)	4.1° (5.1)	3.2° (4.0)
3	not supported	6.8	4.5	3.3	2.5	2
	4-point supported	11.6° (11.6°)	7.4° (8.5°)	5.3° (6.6)	4.0° (5.0)	3.2° (3.9)
1.5	not supported	6.2	4.2	3.1	2.4	1.9
	4-point supported	10.1° (10.1°)	7.1° (9.0)	5.1° (6.4)	3.9° (4.9)	3.1° (3.9)
0	not supported	5.9	4	3	2.3	1.9
	4-point supported	7.0° (7.0°)	6.8° (8.8)	5.0° (6.2)	3.8° (4.8)	3.1° (3.9)
-1.5	not supported		3.9	2.9	2.3	
	4-point supported		6.8° (8.7)	4.9° (6.2)	3.8° (4.7)	
		<b>Reach max. 11.0 m</b>				
2.1	not supported					(1.8)
	4-point supported					2.9° (3.7)



# WORKING RANGE

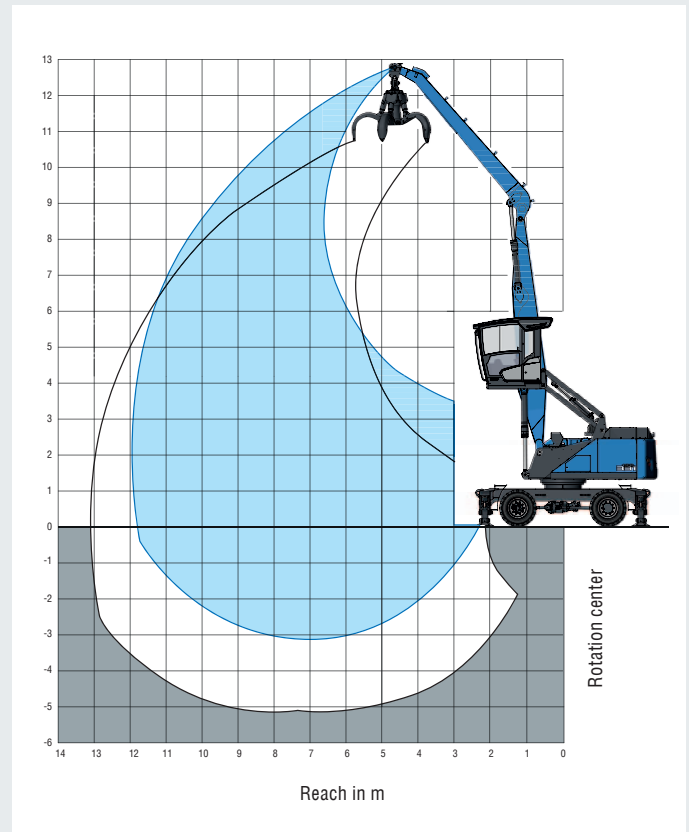
## 12 M REACH WITH DIPPERSTICK

Loading equipment	Boom 6.5 m
	Dipperstick 5.45 m
	Cactus grab 0.6 m <sup>3</sup> open

## RECOMMENDED ATTACHMENTS

Fuchs cactus grab 0.4 m <sup>3</sup>	Open or half-closed
Fuchs cactus grab 0.6 m <sup>3</sup>	Open or half-closed
Magnet plate	Fuchs magnet plate
Clamshell grab 1.0 m <sup>3</sup>	Density of materials handled up to 1400 kg/m <sup>3</sup>
Lift hook	10 t

The lift capacity values are stated in metric tons (t). The pump pressure is 360 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 hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise 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.

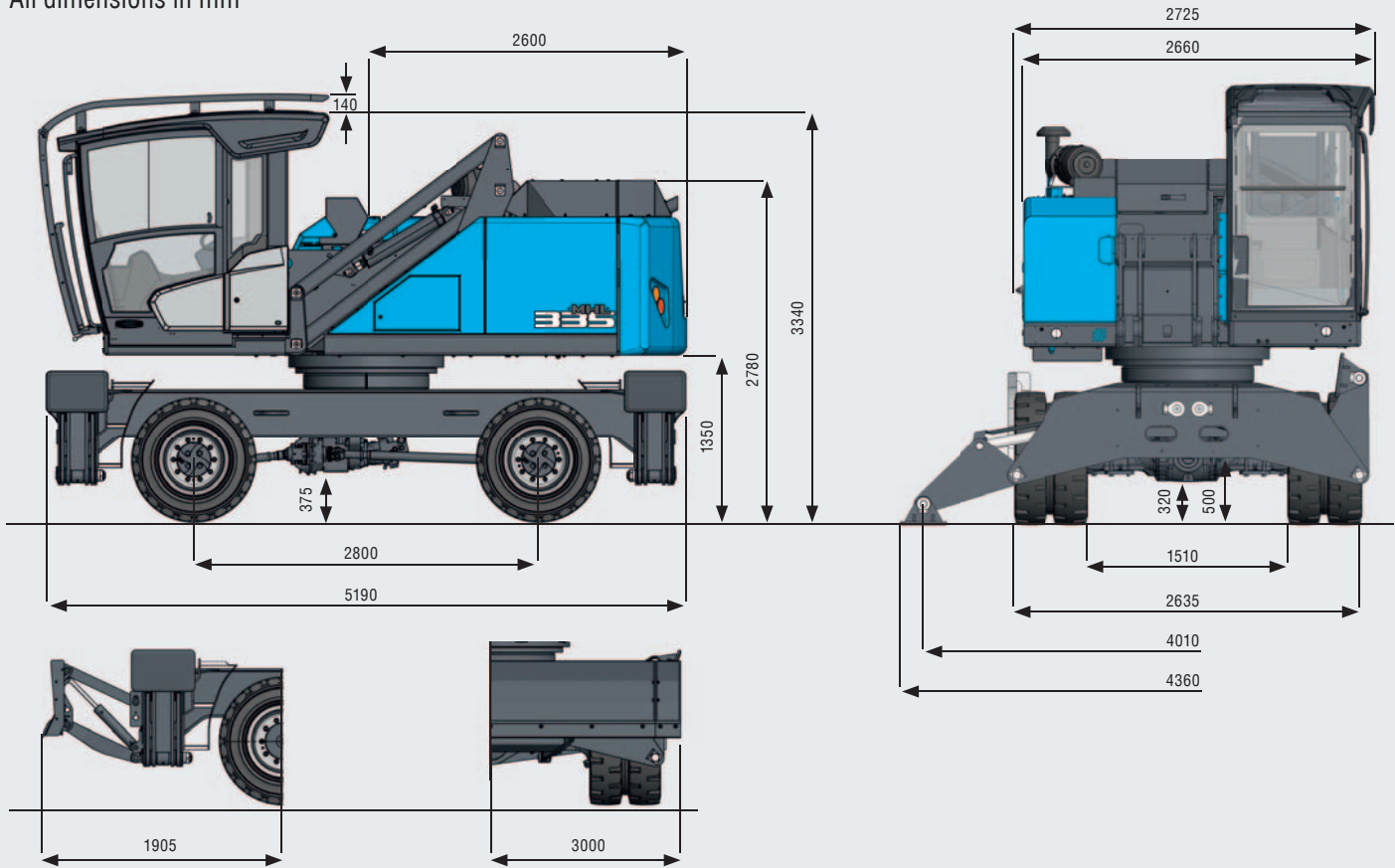


# LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]					
		4.5	6	7.5	9	10.5	12.0
10.5	not supported			3.7			
	4-point supported			4.3° (4.3°)			
9	not supported			3.8	2.8		
	4-point supported			5.1° (5.1°)	4.0° (4.0°)		
7.5	not supported			3.8	2.8	2.1	
	4-point supported			5.1° (5.1°)	4.3 (4.8°)	3.1° (3.1°)	
6	not supported			3.7	2.7	2.1	
	4-point supported			5.3° (5.3°)	4.3 (4.9°)	3.3 (4.1)	
4.5	not supported		5.1	3.6	2.6	2	
	4-point supported		6.6° (6.6°)	5.6 (5.8°)	4.2 (5.2°)	3.3 (4.0)	
3	not supported	7.3	4.7	3.4	2.5	2	1.5
	4-point supported	10.0° (10.0°)	7.6° (7.6°)	5.4 (6.3°)	4.1 (5.0)	3.2 (4.0)	2.6 (3.1°)
1.5	not supported	6.5	4.3	3.1	2.4	1.9	1.5
	4-point supported	11.5 (12.1°)	7.2 (8.7°)	5.2 (6.5)	3.9 (4.9)	3.1 (3.9)	2.6 (3.1°)
0	not supported	6.1	4.1	3	2.3	1.9	
	4-point supported	9.2° (9.2°)	6.9 (8.8)	5.0 (6.3)	3.8 (4.8)	3.1 (3.8)	
-1.5	not supported	5.8	3.9	2.9	2.2	1.8	
	4-point supported	7.4° (7.4°)	6.7 (8.6)	4.9 (6.1)	3.8 (4.7)	3.0 (3.8)	
-3	not supported			2.8			
	4-point supported			4.8 (6.1)			
		<b>Reach max. 12.0 m</b>					
2.2	not supported						(1.5)
	4-point supported						2.6 (2.9°)

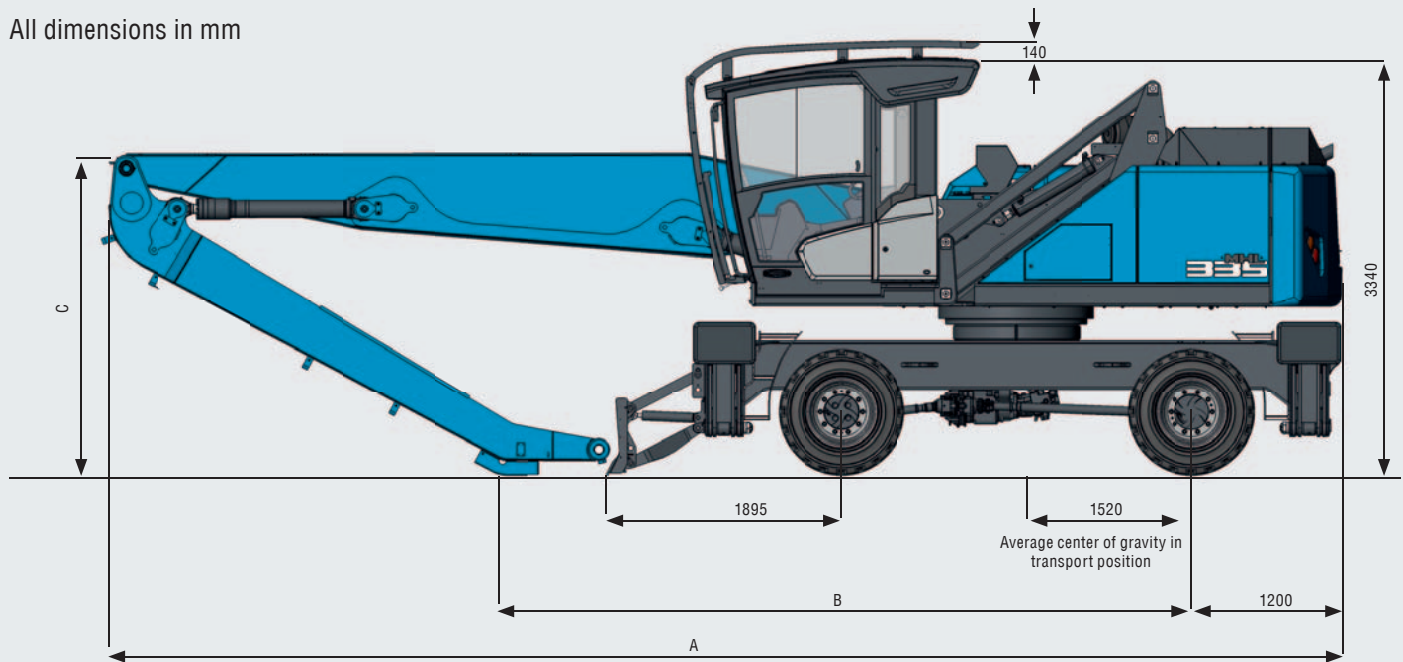
# DIMENSIONS

All dimensions in mm



# TRANSPORT DIMENSIONS

All dimensions in mm



Dimensions	Reach 10.7 m (multi-purpose stick)	Reach 11 m	Reach 12 m
A	10,105 mm	10,075 mm	10,035 mm
B	5,565 mm	5,490 mm	4,345 mm
C	2,770 mm	2,770 mm	2,960 mm



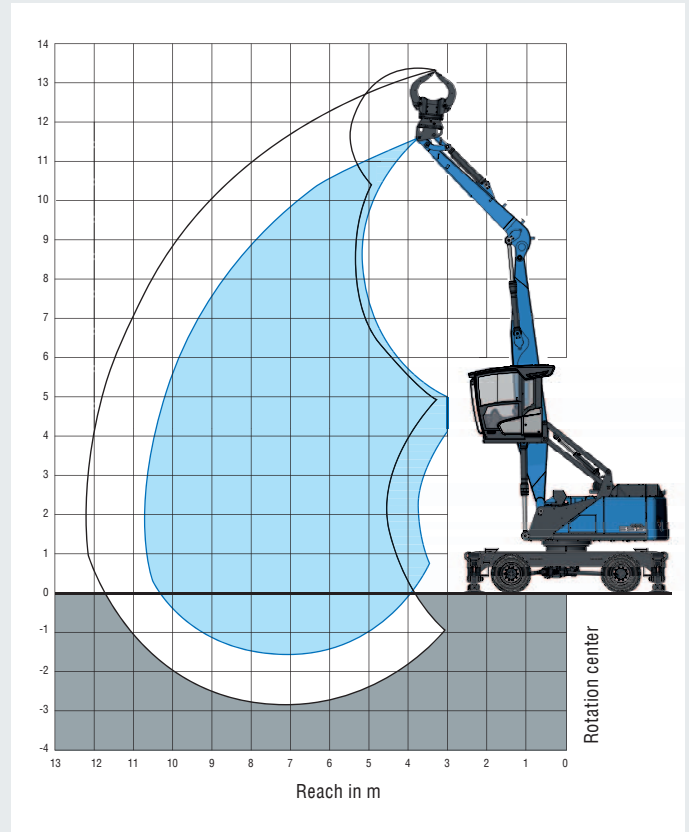


# WORKING RANGE

## 10.7 M REACH WITH MULTI-PURPOSE STICK

Loading equipment	Boom 6.5 m
	Dipperstick 4.0 m
	Sorting grapple

The lift capacity values are stated in metric tons (t). The pump pressure is 360 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 hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise 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.



# LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]				
		4.5	6	7.5	9	10.5
10.5	not supported		(5.0°)			
	4-point supported		5.0° (5.0°)			
9	not supported		(6.0)	(4.1)		
	4-point supported		6.4° (6.4°)	5.1° (5.1°)		
7.5	not supported		(5.9)	(4.1)	(2.9)	
	4-point supported		6.4° (6.4°)	5.8° (5.8°)	4.1° (4.1°)	
6	not supported	(8.3°)	(5.8)	(4.0)	(2.9)	
	4-point supported	8.3° (8.3°)	6.9° (6.9°)	5.9° (5.9°)	4.7° (5.8°)	
4.5	not supported	(8.6)	(5.5)	(3.8)	(2.9)	
	4-point supported	10.0° (10.0°)	7.6° (7.6°)	6.1° (6.3°)	4.6° (5.5°)	
3	not supported	(7.9)	(5.1)	(3.7)	(2.8)	(2.2)
	4-point supported	12.0° (12.0°)	8.5° (8.5°)	5.9° (6.8°)	4.5° (5.7)	3.5° (4.4)
1.5	not supported	(7.3)	(4.8)	(3.5)	(2.7)	(2.1)
	4-point supported	7.4° (7.4°)	8.1° (9.2°)	5.8° (7.1°)	4.4° (5.6)	3.5° (4.4)
0	not supported	(6.3°)	(4.6)	(3.4)	(2.6)	
	4-point supported	6.3° (6.3°)	7.9° (9.4°)	5.6° (7.2)	4.3° (5.5)	
-1.5	not supported			(3.3)		
	4-point supported			5.6° (6.9°)		
		<b>Reach max. 10.7 m</b>				
2.1	not supported					(2.1)
	4-point supported					3.4° (4.0°)

# WORKING RANGE

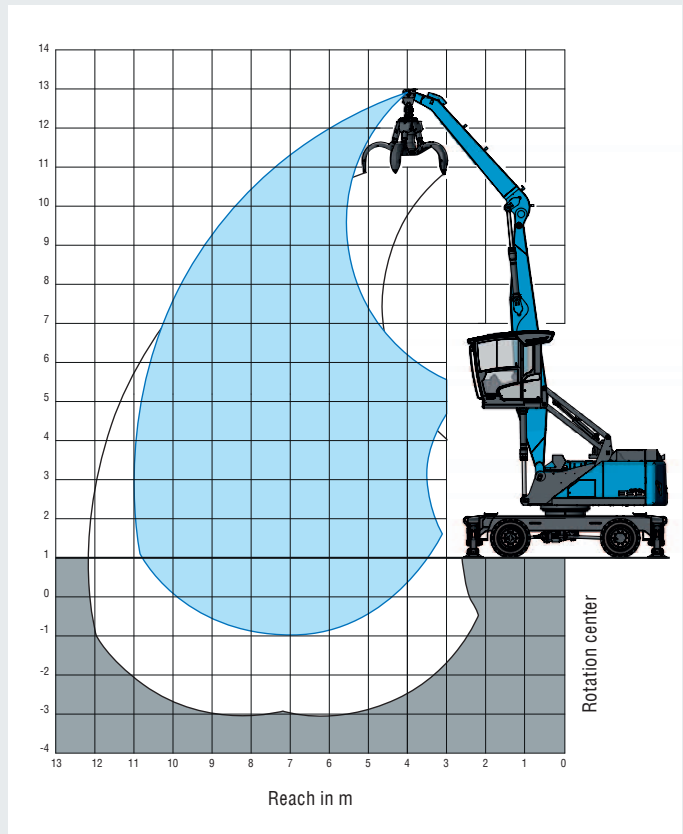
## 11 M REACH WITH DIPPERSTICK

<b>Loading equipment</b>	Boom 6.5 m Dipperstick 4.4 m Cactus grab 0.6 m <sup>3</sup> open
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## RECOMMENDED ATTACHMENTS

<b>Fuchs cactus grab 0.4 m<sup>3</sup></b>	Open or half-closed
<b>Fuchs cactus grab 0.6 m<sup>3</sup></b>	Open or half-closed
<b>Fuchs cactus grab 0.8 m<sup>3</sup></b>	Open or half-closed
<b>Clamshell grab 1.2 m<sup>3</sup></b>	Density of materials handled up to 1400 kg/m <sup>3</sup>
<b>Lift hook</b>	10 t

The lift capacity values are stated in metric tons (t). The pump pressure is 360 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.



# LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]				
		4.5	6	7.5	9	10.5
10.5	not supported		(5.7°)			
	4-point supported		5.7° (5.7°)			
9	not supported		(6.3)	(4.4)		
	4-point supported		6.3° (6.3°)	5.7° (5.7°)		
7.5	not supported		(6.2)	(4.4)	(3.2)	
	4-point supported		6.4° (6.4°)	5.8° (5.8°)	5.0 (5.0°)	
6	not supported		(6.1)	(4.3)	(3.2)	
	4-point supported		6.8° (6.8°)	6.0° (6.0°)	4.9 (5.5°)	
4.5	not supported	(9.1)	(5.8)	(4.1)	(3.1)	(2.4)
	4-point supported	9.7° (9.7°)	7.6° (7.6°)	6.4° (6.4°)	4.8 (5.6°)	3.8 (4.6°)
3	not supported	(8.3)	(5.4)	(3.9)	(3.0)	(2.4)
	4-point supported	11.8° (11.8°)	8.6° (8.6°)	6.2 (6.9°)	4.7 (5.9°)	3.8 (4.7)
1.5	not supported	(7.7)	(5.1)	(3.8)	(2.9)	(2.4)
	4-point supported	9.7° (9.7°)	8.4 (9.4°)	6.0 (7.4°)	4.6 (5.8)	3.7 (4.6)
0	not supported	(6.9°)	(4.9)	(3.6)	(2.9)	(2.3)
	4-point supported	6.9° (6.9°)	8.2 (9.8°)	5.9 (7.5)	4.6 (5.7)	3.7 (4.6)
-1.5	not supported		(4.8)	(3.6)	(2.8)	
	4-point supported		8.1 (9.5°)	5.8 (7.4°)	4.5 (5.7)	
						<b>Reach max. 11.0 m</b>
2.2	not supported					(2.2)
	4-point supported					3.5 (3.8°)



# WORKING RANGE

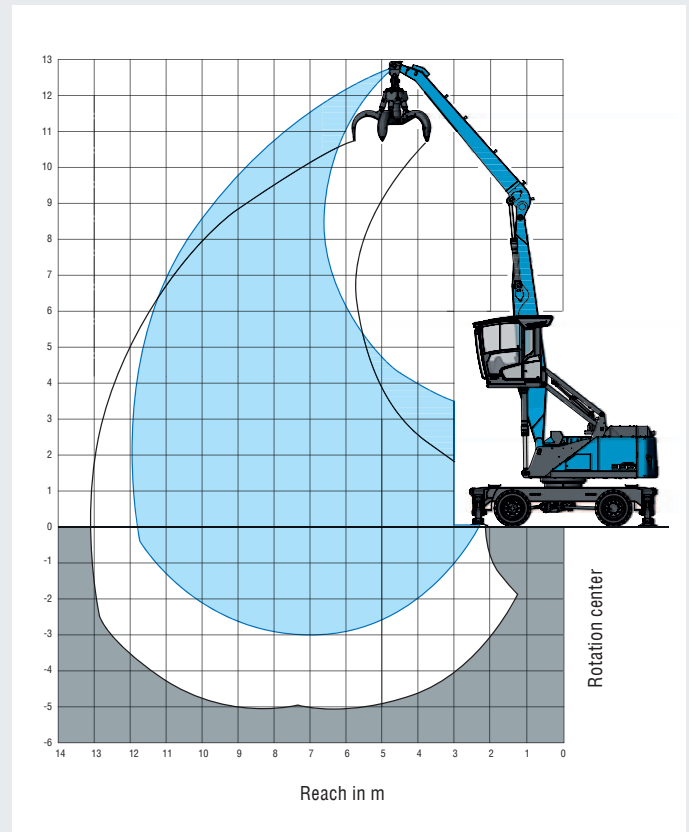
## 12 M REACH WITH DIPPERSTICK

Loading equipment	Boom 6.5 m
	Dipperstick 5.45 m
	Cactus grab 0.6 m <sup>3</sup> open

## RECOMMENDED ATTACHMENTS

Fuchs cactus grab 0.4 m <sup>3</sup>	Open or half-closed
Fuchs cactus grab 0.6 m <sup>3</sup>	Open or half-closed
Magnet plate	Fuchs magnet plate
Clamshell grab 1.0 m <sup>3</sup>	Density of materials handled up to 1400 kg/m <sup>3</sup>
Lift hook	10 t

The lift capacity values are stated in metric tons (t). The pump pressure is 360 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 hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise 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.



# LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]					
		4.5	6	7.5	9	10.5	12
10.5	not supported			(4.4°)			
	4-point supported			4.4° (4.4°)			
9	not supported			(4.5)	(3.3)		
	4-point supported			5.1° (5.1°)	4.1° (4.1°)		
7.5	not supported			(4.5)	(3.3)	(2.5)	
	4-point supported			5.1° (5.1°)	4.8° (4.8°)	3.2° (3.2°)	
6	not supported			(4.4)	(3.3)	(2.5)	
	4-point supported			5.4° (5.4°)	5.0° (5.0°)	3.9 (4.4°)	
4.5	not supported		(6.0)	(4.2)	(3.2)	(2.5)	
	4-point supported		6.7° (6.7°)	5.8° (5.8°)	4.9 (5.2°)	3.9 (4.7°)	
3	not supported	(8.8)	(5.7)	(4.0)	(3.1)	(2.4)	(1.9)
	4-point supported	10.1° (10.1°)	7.7° (7.7°)	6.3° (6.4°)	4.8 (5.5°)	3.8 (4.7)	2.9° (2.9°)
1.5	not supported	(8.0)	(5.3)	(3.8)	(2.9)	(2.3)	(1.9)
	4-point supported	12.3° (12.3°)	8.6 (8.8°)	6.1 (6.9°)	4.7 (5.8°)	3.7 (4.6)	3.1° (3.1°)
0	not supported	(7.5)	(5.0)	(3.7)	(2.8)	(2.3)	
	4-point supported	9.0° (9.0°)	8.3 (9.5°)	5.9 (7.3°)	4.6 (5.7)	3.7 (4.6)	
-1.5	not supported	(7.2)	(4.8)	(3.5)	(2.8)	(2.3)	
	4-point supported	7.4° (7.4°)	8.1 (9.6°)	5.8 (7.4°)	4.5 (5.6)	3.6 (4.5)	
-3	not supported			(3.5)			
	4-point supported			5.8 (7.1°)			
							<b>Reach max. 12.0 m</b>
2.1	not supported						(1.9)
	4-point supported						2.9° (2.9°)



# GET A HANDLE ON FLEET MANAGEMENT.

## Fuchs Telematics System: Recognize and Optimize Potential.

**The Fuchs Telematics system: know exactly how and where everything is running.**

The system offers a modern solution to help you analyze and optimize the efficiency of your machines. It 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 Fuchs Telematics system is standard and can be optionally retrofitted into existing machines to help control your operating costs and keep your machines in top shape.

\* Internet connection required

