



180 kW

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34.7 - 38.4 t (without attachments)



/ max. 16 m











# **TECHNICAL DATA**

MHL450	34.7 – 38.4 t	
Diesel engine		
Manufacturer and type	EU Stage V / U.S. Tier 4	EU Stage IIIA / U.S. Tier 3 *)
	Deutz TCD 6.1 L6	Deutz TCD2013 L6
Design	6-cylinder in-line	6-cylinder in-line engine
Functionality	4-stroke engine, direct common-rail fuel injection, turbocharger with charge air intercooling, controlled exhaust as recirculation, diesel particle filter with a continuously regenerating system and SCR catalytic converter	4-stroke engine, direct common-rail fuel injection, turbocharger with charge air intercooling
Engine power	180 kW	182 kW
Nominal speed	2000 min <sup>-1</sup>	2000 min <sup>-1</sup>
Displacement	6.1 I	7.21
Cooling system	Water and charge air cooling with temperature controlled fan s	speed
Exhaust emission standard	EU Stage V / US EPA Tier 4	EU Stage IIIA / U.S. Tier 3 *)
Fuel tank	315 I Diesel	315 I Diesel
Urea tank	32 I AdBlue	-
Electrical system		
Alternator	28 V / 100 A	
Operating voltage	24 V	
Battery	$2\times12$ V / 110 Ah / 750 A (in accoordance with EN)	
Lighting	2 x LED floodlights at the front of the machine, rear parking lig	hts and indicator lights
Travel Drive		
Travel drive all wheel, hydrostatic drive w	rith infinitely variable axial piston motor and directly mounted travel brake	valves, 2-stage power shift system
Travel speed	0-19 km/h	
Turning radius	9.5 m	
SLEWING GEAR		
Slewing ring	Internally geared double row slewing ring bearing, greasing vi	a automatic lubrication system
Drive	2-stage planetary gear with integrated multi-disc brake	
Uppercarriage swing speed	0 – 7 min <sup>-1</sup> infinitely variable	
Slewing lock	Electrically activated	

<sup>\*</sup> for markets with little regulation



# **TECHNICAL DATA**

Undercarriage		
Front axle	Steering axle with planetary drive, integrated wet multidisc bra	ake and oscillating lock
Rear axle	Planetary drive axle with integrated wet multi-disc brake, rigid	ly mounted
Stabilization	with 4-point stabilizers	
Tires	Pneumatic tires Hauler 16.00-25/32 PR, 4-fold. Further tires a	vailable on request.
Brakes		
Service brake	Hydraulically activated dual-circuit brake system acting on all	four wheel pairs, lockable
Parking brake	Electro-hydraulically actuated brake, works on both axles	
Hydraulic system		
Load limit control for energy-efficient operation		
Max. pump flow	2 × 330 l/min	
Max. pressure	320 / 360 bar	
Hydraulic oil tank	3661	
Temperature-dependent fan drive		
Operator's cab		
Cab	Infinitely variable hydraulic height-adjustable cabin with sliding d noramic windows for best all-round isibility, front window with ro and air conditioning, separate heat exchangers, fresh and recircul clip and multiple storage and mounting options. Digital radio (DA Vertically adjustable cabin: viewing height of 5.96 m.	ller blind, glass panel in the cabin roof with sliding blind. Heatin lated air filters. Multifunction touch display, bottle holder, paper
Air-conditioning	Automatic air-conditioning. Infinitely variable heating with 8-speed	d fan, 10 adjustable air nozzles, 3 defroster nozzles.
Operator's seat	Air-cushioned comfort seat with swinging armrests / joysticks, work due to universal adjustment options for the seat position, relation to the armrests and joysticks.	
Monitoring	Ergonomically arranged, glare-free Multifunction display. Autom all hydraulic oil filters, hydraulic oil temperature – coolant and ch visual and audible warning. Diagnostic option for the individual s camera on the right with separate monitor.	arge air temperature – diesel particulate filter loading, steering
	EU Stage V	U.S. Tier 4
Sound levels	Sound power level (outdoor area)	Sound power level (outdoor area)
	$L_{\mbox{\tiny WA}}98.8\mbox{ dB(A)}$ (measured) as per directive 2000/14/ EC	$L_{\text{WA}}$ 101.3 dB(A) (measured) as per directive 2000/14/EC
	L <sub>wa</sub> 101 dB(A) (guaranteed) as per directive 2000/14/ EC	$L_{\text{WA}}$ 102 dB(A) (guaranteed) as per directive 2000/14/ EC
	Sound pressure level (inside the cab) as per the standard ISO 6396 $L_{\rm pA}$ 67 dB(A)	Sound pressure level (inside the cab) as per the standard II 6396 $L_{\rm pA}$ 67 dB(A)
Vibration	Sound pressure level (inside the cab) as per the standard ISO	m/s² (98 in/s²)



# **EQUIPMENT**

Diesel engine	Standard	Option
Water and charge air cooler	•	
Temperature-dependent fan drive	•	
Reversible fan		•
Direct electronic fuel injection / common rail	•	
DEF injection, passive regeneration	•	
Advanced automatic idle incl. engine shut-off function	•	
ECO and POWER mode	•	
Engine preheating		•
Engine diagnostics interface	•	
Undercarriage		
All-wheel drive	•	
Wet multi-disc brake for all 4 wheels	•	
Front axle oscillating lock	•	
2-speed powershift transmission	•	
4-point stabilizers	•	
Stabilizer cylinder with integrated, double-sided shut-off valve	•	
Tool box	•	
Special paint (customer paint work)		•
Uppercarriage		
Separated cooling system for hydraulic, engine and air-conditioning system	•	
Temperature-dependent fan drive	•	
Reversible fan		•
Automatic central lubrication system	•	
Rear view camera	•	
Side view camera	•	
Travel alarm		•
Electric refuelling pump		•
Lighting protection		•
Special paint (customer paint work)		•



# **EQUIPMENT**

Cab	Standard	Option
Vertically adjustable cabin	•	
Safety glass, tinted windows (side, rear), sliding window clear glass	•	
Cabin with all clear glass windows		•
Cabin with penetration resistant glass front (classification P5A)		•
Cabin with bullet-proof glass (classification P8B)		•
Sliding window in cab door	•	
Glass ceiling	•	
Windshield washer system	•	
Washing device for roof window		•
Air-cushioned operator seat with headrest, seatbelt, and lumbar support, consoles that move with the seat	•	
Seat heating		•
Joystick steering	•	
Steering column, height and tilt adjustable		•
Automatic air conditioning system	•	
Auxiliary heating incl. Timer		•
Multi-function display	•	
Document net	•	
FOPS Guard		•
Voltage converter 12 V		•
Digital Radio (DAB+, USB, Bluetooth and handsfree system)	•	
12V socket/cigarette lighter		•
Catwalk for cabin, access ladder included		•
Fire extinguisher, dry powder with holder		•
Other equipment		
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 working area control		•
Quick coupling on dipperstick	•	
Stick protection		•
Active cyclone prefilter (TOP AIR)		•
Boom cylinder damping system (piston accumulator)		•
Hydraulic oil preheating		•
Lubrication of the grab suspension by central lubrication system	•	
Float switch		•
Light packages LED		•
LED head lights at the front of the machine	•	
Trailer hitch		•
Fuchs Telematics System, incl. 5 years contract	•	



### **LOADING EQUIPMENT**

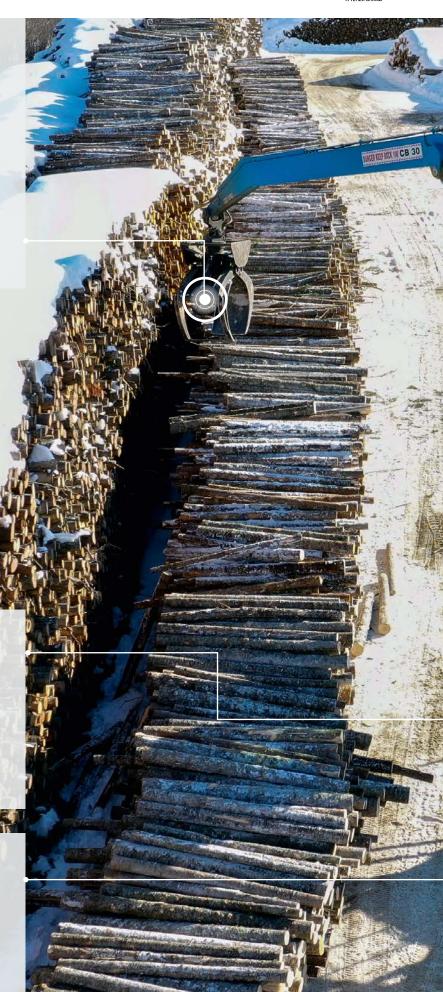
- Reach up to 16 m
- Purpose built loading equipment
- Kinematics designed for maximum stockpiling height
- Stockpiles in 2nd row can also be reached
- Grab rotation speed and pressure regulation
- Optimally arranged hydraulic pipes and hoses

### **UPPERCARRIAGE**

- Separated cooling system for engine, hydraulic oil cooler and AC condenser
- Temperature-controlled fan drives, highly energy-efficient
- · Cover plates, robust steel design
- Rear and side view camera

### **UNDERCARRIAGE**

- FEM-based, robust, torsion-resistant steel construction,
- Symmetrical arrangement of the axles
- Protection guard for drivetrain
- Different trailer hitches on demand













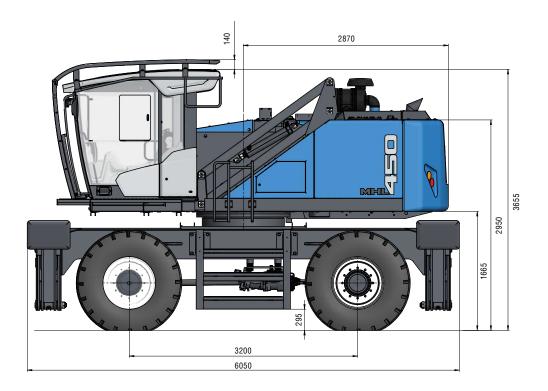


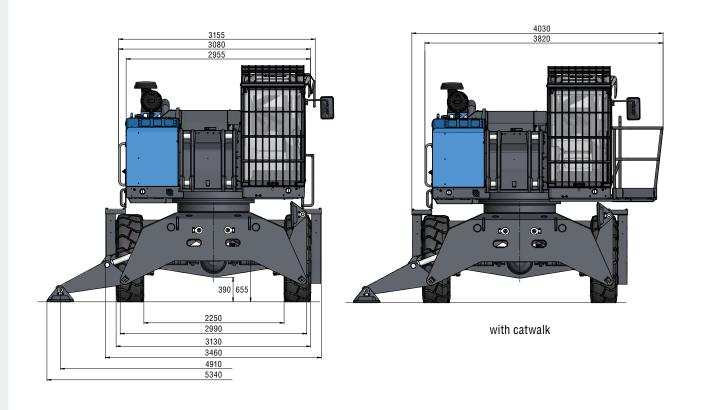
# **DIMENSIONS**

# 4-point stabilizers

### Side view

all dimensions in mm



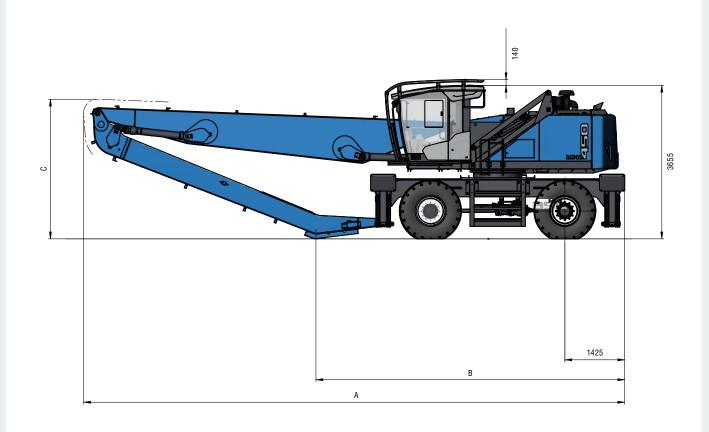




# TRANSPORT DIMENSIONS

### Side view

all dimensions in mm

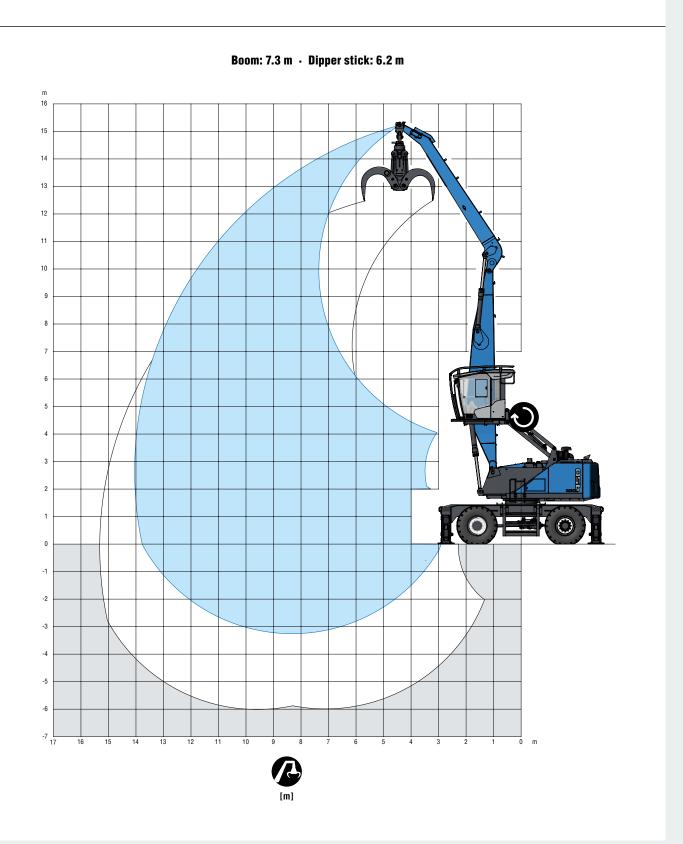


	<b>⚠</b> 14.0 m	<b>&amp;</b> 15.0 m	<b>&amp;</b> 16.0 m
A	11685 mm	12885 mm	12885 mm
В	6865 mm	8095 mm	7350 mm
С	3275 mm	3325 mm	3325 mm



# **REACH**

# 14.0 m with dipper stick





### **LIFTING CAPACITY**

					(E)			
		4.5 m	6 m	7.5 m	9 m	10.5 m	12 m	13.5 m
13.5	ശ <u>-</u> മ			4.5°				
12	ro <del>−</del> o1			6.0°	4.6°			
10.5	ര <del>_</del> മ			6.8°	5.9°	4.3°		
9	ro <del>−</del> oı			7.4°	6.8°	5.6°	3.4°	
7.5	ര <del>_</del> ഖ			7.9°	7.0°	6.3°	4.7°	
6	to <u>−</u> oı		9.5°	8.4°	7.3°	6.5°	5.8°	2.7°
4.5	w <u>−</u> oı	12.6°	11.3°	9.1°	7.7°	6.6°	5.8°	3.6°
3	to <u>−</u> oı	18.1°	12.6°	9.8°	8.0°	6.8°	5.8°	4.1°
1.5	ര <del>_</del> ഖ	8.0°	13.4°	10.2°	8.2°	6.8°	5.7°	4.2°
0	ro <del>−</del> o1	5.7°	13.4°	10.2°	8.1°	6.7°	5.5°	3.7°
-1.5	ശ <del>_</del> ഖ	5.8°	11.4°	9.6°	7.7°	6.2°	4.9°	
-3	ro <del>−</del> o1			8.4°	6.7°			
								max. reach 14 m
2.7	to <u>_</u> oı							2.4°

### **Recommended attachments upon request**







Center of rotation



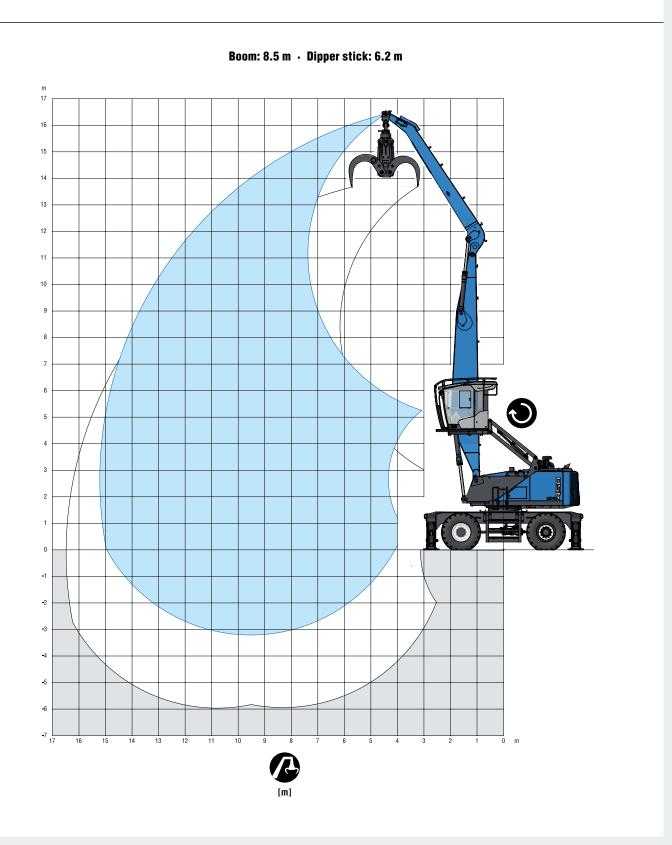
4-point supported

The lift capacity values are stated in metric tons (t). 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 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. The machine has to be supported on a level ground for object handling application.



# **REACH**

# 15.0 m with dipper stick





### **LIFTING CAPACITY**

		4.5 m	6 m	7.5 m	9 m	10.5 m	12 m	13.5m	15 m
15	ro <del>≖</del> on			4.3°					
13.5	to <u>≖</u> oı			5.9°	4.6°				
12	lo <u>≂</u> oı			6.7°	5.9°	4.6°			
10.5	to <u>_</u> oJ			7.3°	6.6°	5.8°	4.1°		
9	lo <u>≖</u> or			7.7°	6.7°	5.9°	5.3°	3.0°	
7.5	to <u>_</u> oJ			8.0°	6.9°	6.0°	5.3°	4.3°	
6	to <u>_</u> or		10.6°	8.6°	7.2°	6.2°	5.4°	4.8°	
4.5	to <u>_</u> oJ	16.8°	11.7°	9.1°	7.5°	6.3°	5.5°	4.7°	2.7°
3	to <u>_</u> or	5.0°	12.6°	9.5°	7.7°	6.4°	5.5°	4.7°	3.1°
1.5	to <u>_</u> oJ	3.0°	9.2°	9.7°	7.7°	6.4°	5.4°	4.5°	3.1°
0	to <u>≂</u> or	3.3°	6.8°	9.4°	7.5°	6.2°	5.1°	4.2°	
-1.5	to <u>_</u> oJ		6.5°	8.6°	7.0°	5.7°	4.7°	3.7°	
-3	to <u>≂</u> or				6.1°	5.0°			
									max. reach 15.2 m
2.7	ro <del>≖</del> on								2.4°

### **Recommended attachments upon request**





Reach



Center of rotation



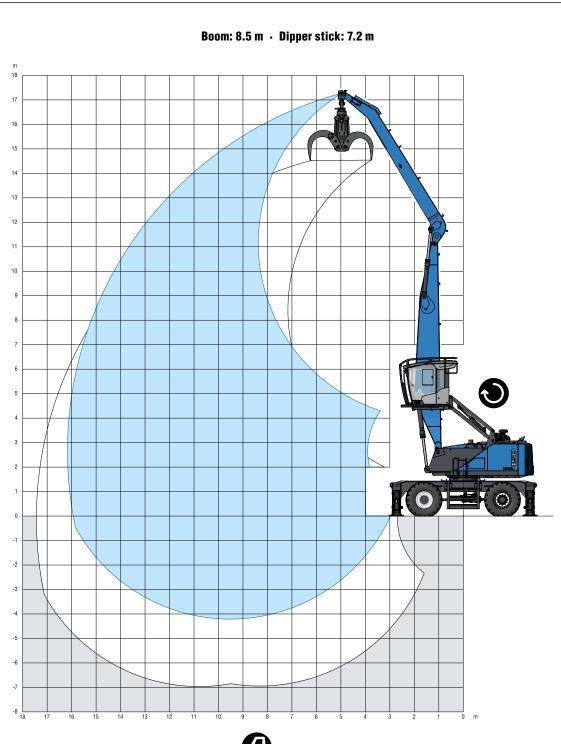
4-point supported

The lift capacity values are stated in metric tons (t). 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 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. The machine has to be supported on a level ground for object handling application.



# **REACH**

# 16.0 m with dipper stick





### **LIFTING CAPACITY**

		4.5 m	6 m	7.5 m	9 m	10.5 m	12 m	13.5 m	15 m
15	to <u>_</u> oJ			4.8°	3.7°				
13.5	to <u>_</u> oJ				4.8°	3.7°			
12	to <u>−</u> or				5.5°	4.7°	3.5°		
10.5	to <u>_</u> oJ				6.0°	5.4°	4.5°	2.8°	
9	to <u>_</u> oJ				6.2°	5.6°	5.1°	3.9°	
7.5	to <u>_</u> oJ			7.4°	6.5°	5.7°	5.1°	4.6°	2.7°
6	to <u>_</u> oJ			7.9°	6.8°	5.9°	5.2°	4.6°	3.4°
4.5	to <u>_</u> oJ	11.9°	10.8°	8.6°	7.1°	6.1°	5.3°	4.7°	4.0°
3	to <u>_</u> oJ	17.3°	11.9°	9.1°	7.4°	6.3°	5.4°	4.7°	4.0°
1.5	to <u>_</u> oJ	4.7°	12.6°	9.5°	7.6°	6.3°	5.4°	4.6°	3.9°
0	to <u>_</u> oJ	3.7°	8.5°	9.5°	7.6°	6.2°	5.2°	4.4°	3.6°
-1.5	to <u>_</u> oJ	3.9°	7.0°	9.0°	7.2°	6.0°	5.0°	4.1°	3.1°
-3	to <u>−</u> or		6.8°	8.1°	6.6°	5.4°	4.4°		
									max. reach 16.1 m
2.7	ro <del>≖</del> oı								1.9

### **Recommended attachments upon request**







Center of rotation



4-point supported

The lift capacity values are stated in metric tons (t). 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 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. The machine has to be supported on a level ground for object handling application.



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