

PRODUCT  
SPECIFICATION

 **TEREX**<sup>®</sup>

 **ECOTEC**

# TWH 251

WASTE HANDLER



190 kW (Diesel, EU Stage V / US EPA Tier 4)  
186 kW (Diesel, EU Stage IIIA / US Tier 3)  
160 kW (Electric)



43.5–48.8 t



max. 18.0 m

Service weight without attachments

<b>TWH 251</b>	43.5–48.8 t	
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Diesel engine	EU Stage V / US EPA Tier 4	EU Stage IIIA / US Tier 3
Manufacturer and model	Deutz TCD 7.8 L6 4V	TCD2013 L06 2V
Design	6-cylinder in-line engine	6-cylinder in-line engine
Functionality	4-stroke engine, direct common-rail fuel injection, turbocharger with charge air intercooling, controlled exhaust gas 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	190 kW	186 kW
Rated speed	2,000 rpm	2,000 rpm
Displacement	7.8 l	7.2 l
Cooling system	Water and charge air cooling with temperature controlled fan speed	Water and charge air cooling with temperature controlled fan speed
Exhaust emission standard	EU Stage V / US EPA Tier 4	EU Stage IIIA / US Tier 3
Fuel tank	580 l diesel	580 l diesel
DEF / Urea tank	50 l Ad Blue	-

Electric motor

Power	160 kW
Total connected load	210 kW
Motor start	Via soft start
Optional cable reel	Up to 50 metres (other lengths on request)

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 x LED floodlights at the front of the machine, rear lights and indicator lights
Optional	20 kW or 30 kW DC generator with control and insulation monitoring

Travel drive

Hydrostatic drive through infinitely variable axial piston motor with directly mounted travel brake valves, 2-gear transmission, all-wheel drive	
Travel speed 1st Gear	max. 5 km/h
Travel speed 2nd Gear	max. 15 km/h
Gradeability	max. 30 %
Turning radius	9.5 m

Slewing drive

Slewing ring	Double slewing ring with inner teeth
Drive	2-stage planetary gear with integrated multi-disk brake
Uppercarriage swing speed	0–6 rpm infinitely variable
Slewing lock	Electronically activated

Specification subject to change without notice.

Undercarriage

Front axle	Planetary drive axle with integrated drum brake, rigid bearing, max. steering angle 27°
Rear axle	Planetary drive axles with integrated drum brake, with self aligning bearing and switching oscillating lock
Outrigger	4-point outrigger
Tyres	Solid rubber elastic 8 × 12.00–24

Brakes

Service brake	A hydraulically activated single-circuit brake system that works on all four pairs of wheels
Parking brake	An electronically activated disc brake on the drive transmission that works on both axles

Hydraulic system

Max. flow rate	2 × 280 l/min & 1 × 140 l/min (for slewing)
Max. operating pressure	320 / 360 bar
Hydraulic oil tank	520 l

Operator's Cab

Cab	Vertically adjustable through infinitely variable hydraulic control up to a viewing height of 5.8 m (option: vertically and horizontally adjustable to a max. viewing height of 6.1 m) Soundproof, insulating panoramic windows enabling all-round visibility, windscreen with pull-down sunblind, roof skylight, cab door sliding window, sliding door
Air conditioning	Automatic climate control. Infinitely variable water heating with 8-speed fans, 10 adjustable nozzles, 4 set into the roof lining and 3 defrosting nozzles
Operator's seat	Air-sprung comfort seat with integrated headrest, safety belt and lumbar support, optional seat heating. It allows for comfortable working by offering universal adjustment possibilities of the seat position, the seat incline, and the position of the seat cushion in relation to the armrests and pilot controls
Monitoring	Ergonomically-arranged, anti-glare controls, multi-functional display, automatic monitoring and storage of deviating operating conditions, (e.g. all hydraulic oil filters, hot/cold hydraulic oil temperature, coolant temperature and charge air temperature, diesel particle filter load), visual and acoustic warning up to the point of shutting feed forward control or reducing engine output. Individual sensor diagnosis using the multi-functional display, rear camera and side camera

Noise level	EU-Stage V	EPA Tier III
Sound power level (outdoor area)	Sound power level (outdoor area)	Sound power level (outdoor area)
L <sub>WA</sub> 101.8 dB(A) (measured) as per directive 2000/14/EC	L <sub>WA</sub> 101.5 dB(A) (measured) as per directive 2000/14/EC	L <sub>WA</sub> 101.5 dB(A) (measured) as per directive 2000/14/EC
L <sub>WA</sub> 104 dB(A) (guaranteed) as per directive 2000/14/EC	L <sub>WA</sub> 104 dB(A) (guaranteed) as per directive 2000/14/EC	L <sub>WA</sub> 104 dB(A) (guaranteed) as per directive 2000/14/EC
Sound power level (inside the cab)	Sound power level (inside the cab)	Sound power level (inside the cab)
as per the directive ISO 6396	as per the directive ISO 6396	as per the directive ISO 6396
L <sub>PA</sub> 73 dB(A)	L <sub>PA</sub> 72 dB(A)	L <sub>PA</sub> 72 dB(A)
Vibrations	Weighted r.m.s. value of acceleration of upper limbs under 2.5 m/s <sup>2</sup> (98 in/s <sup>2</sup> ) Weighted effective value of acceleration for the seat and feet under 0.5 m/s <sup>2</sup> (20 in/s <sup>2</sup> )	

Certification as per CE directives

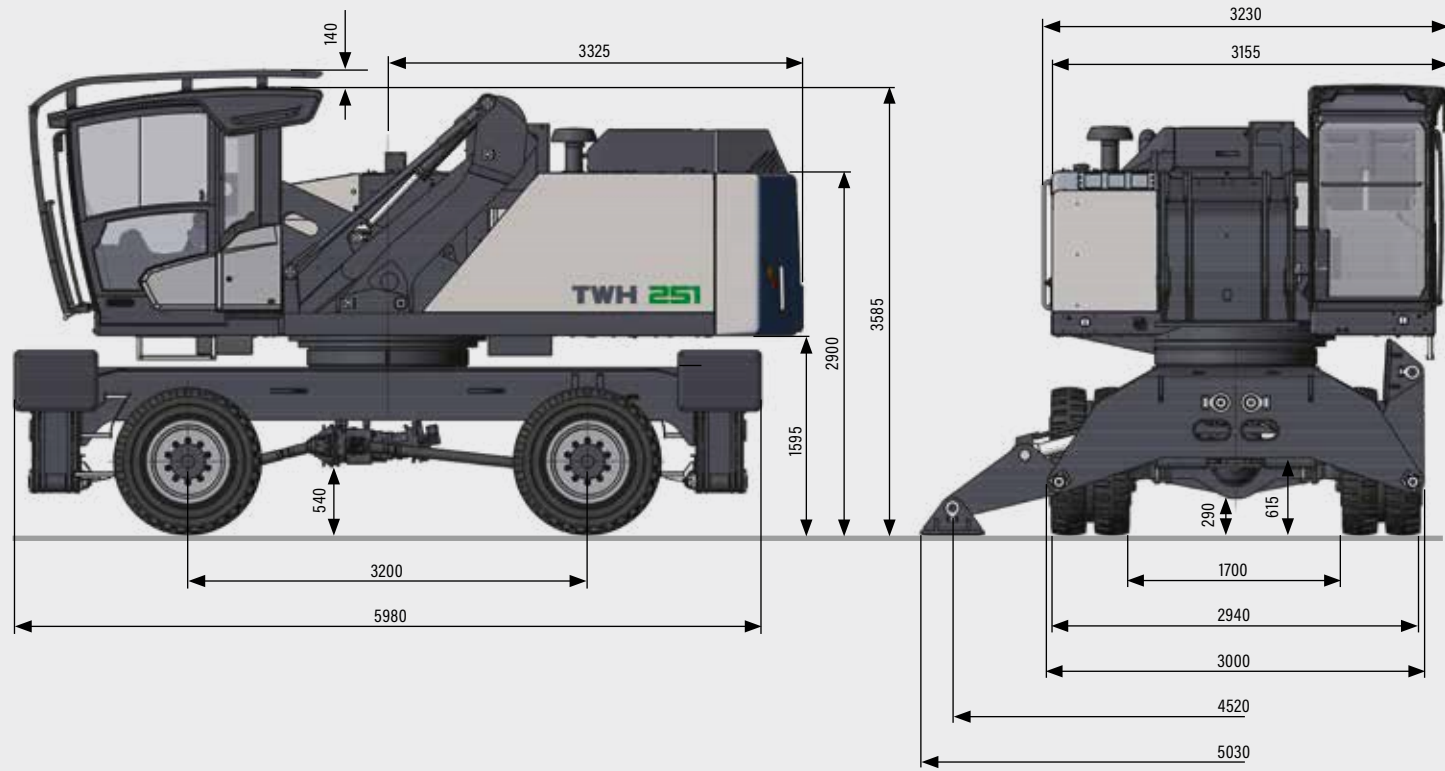
Diesel engine	Standard	Option
Intercooler and coolant radiator	●	
Direct electronic fuel injection / common rail	●	
Advanced automatic idle incl. engine shut-off function	●	
Engine preheating		●
Engine diagnostics interface	●	
Temperature-dependent fan drive	●	
<b>Undercarriage</b>		
All-wheel drive with differential	●	
Drum brakes	●	
Rear axle oscillating lock	●	
2-speed powershift transmission		●
4-point stabilisers	●	
Dozer blade in addition to 4-point stabilisers		●
Stabiliser cylinders with integrated two-way check valves	●	
Piston rod protection on stabiliser cylinders	●	
Tool box	●	
Special paint (customer paint work)		●
Solid rubber tyres 12.00-24 with intermediate rings	●	
<b>Uppercarriage</b>		
Separate cooling system for engine and hydraulic oil cooler	●	
Cooling system with temperature-dependent fan drive	●	
Fan drive reversing function		●
Automatic central lubrication system	●	
Rear view camera	●	
Side view camera	●	
Driving warning device		●
Electric refuelling pump		●
Lighting protection		●
Special paint (customer paint work)		●

Further optional equipment available on request!  
Specification subject to change without notice.

Cab	Standard	Option
Hydraulically adjustable cab	●	
Cab system which can be elevated and moved forward		●
Safety glass	●	
Sliding window in cab door	●	
Reinforced glass P5A (windscreen and roof panel)		●
Reinforced glass P5A (windscreen and roof panel) (FQC)	●	
Windshield washer system	●	
Roof washer system		●
Air-cushioned operator seat with headrest, seatbelt, and lumbar support	●	
Seat heating		●
Joystick steering	●	
Steering column, height and tilt adjustable		●
Automatic air conditioning system	●	
Independent heating system		●
Multi-function display	●	
Document net	●	
FOPS Guard		●
Front and FOPS Guard		●
12V transformer		●
Digital Radio (DAB+, USB, Bluetooth & hands-free system)	●	
12V socket		●
Fire extinguisher, dry powder		●
Travel alarm w/ rotating beacon		●
<b>Other Equipment</b>		
20 kW DC generator with controls		●
30 kW DC generator with controls		●
Close proximity range limiter for dipper stick	●	
Coolant and hydraulic oil level monitoring system	●	
Filter system for attachments		●
Filter system for attachments (FQC)	●	
Hose rupture valve for boom cylinder	●	
Hose rupture valve for stick cylinder	●	
Overload warning device		●
Quick coupling 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		●
LED front headlights	●	
LED working lights cabin roof front		●
Boom cylinder damping system (piston accumulator)		●
Fuchs Telematics System, incl. 5 years contract	●	

## Dimensions

(all dimensions in mm)

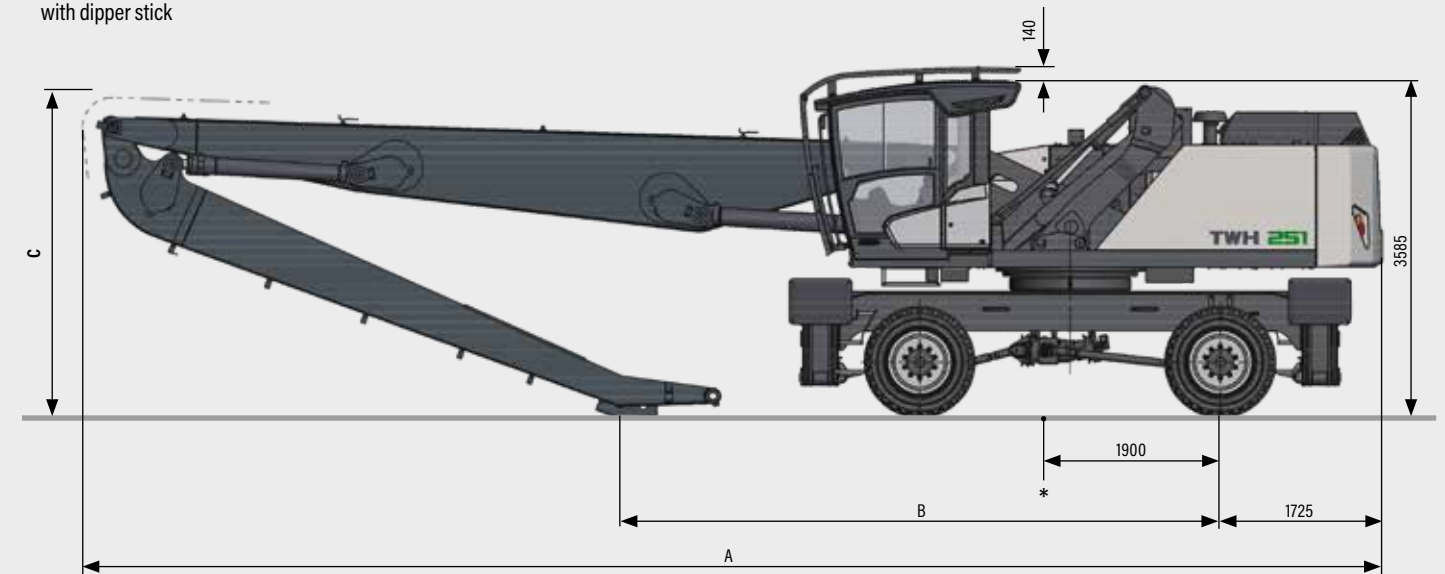


## Transport Dimensions

(all dimensions in mm)

TWH 251

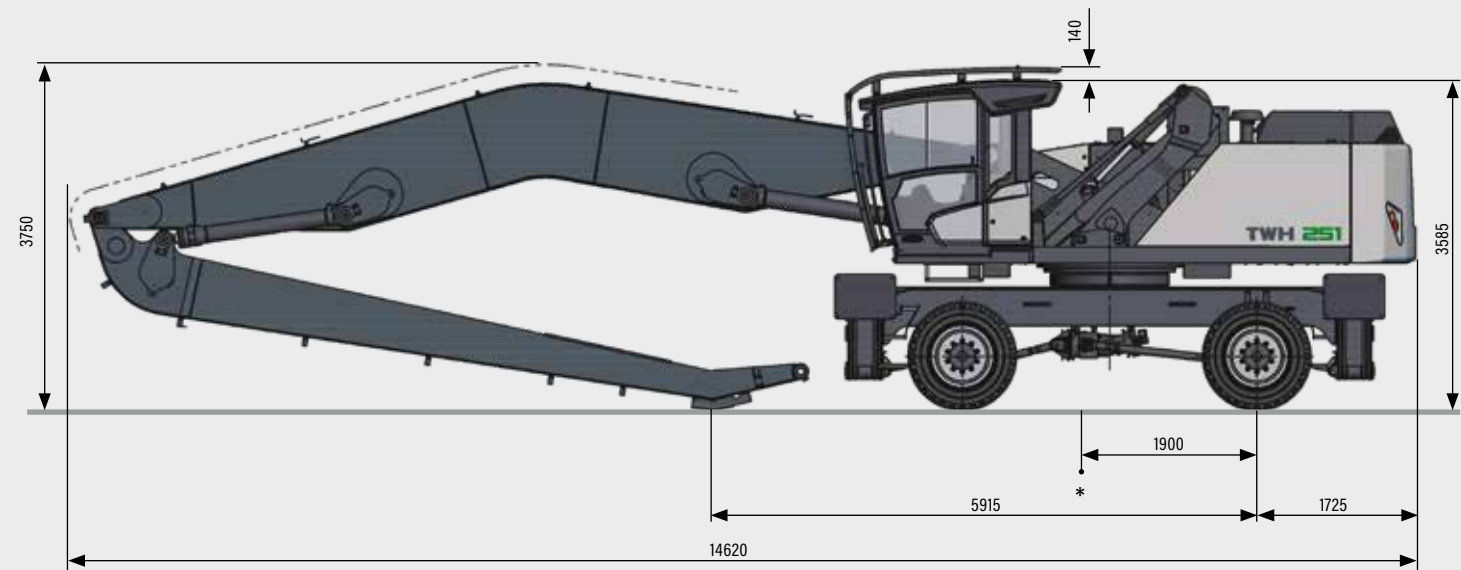
16.5 m and 18 m reach  
with dipper stick



\* Average centre of gravity  
in transport position

Reach	A	B	C
16.5 m	13,840 mm	6,375 mm	3,400 mm
18 m	14,625 mm	6,400 mm	3,670 mm

18 m reach  
with banana boom



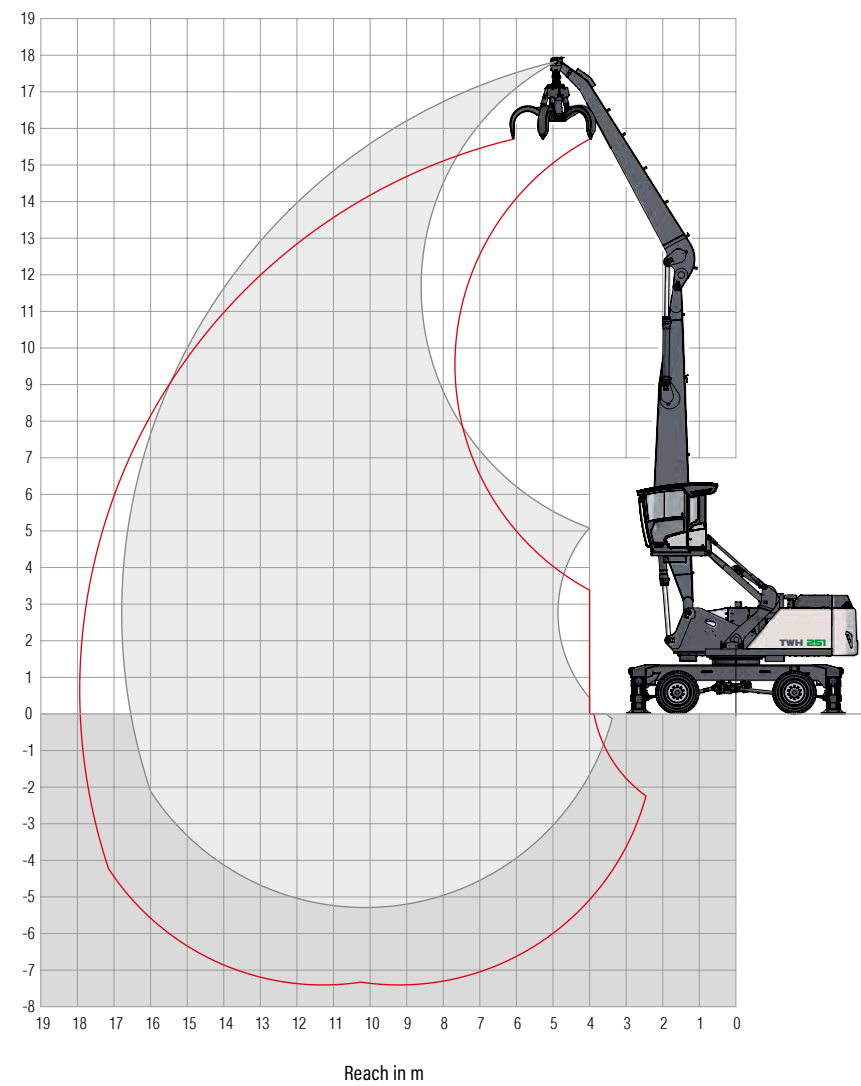
\* Average centre of gravity  
in transport position

**16.5 m reach with dipper stick**

**Loading equipment**

Boom 8.9 m  
Dipper stick 7.0 m  
Cactus grab 0.8 m<sup>3</sup>

**Recommended attachments upon request**



Height [m]		Reach [m]																		
		4.5	6	7.5	9	10.5	12	13.5	15	16.5										
15					(8.4°)	(5.8°)														
					8.4° (8.4°)	5.8° (5.8°)														
13.5					(8.7°)	(6.7°)	(5.2°)													
					9.3° (9.3°)	8.3° (8.3°)	5.8° (5.8°)													
12					(8.8°)	(6.8°)	(5.3°)	(4.2°)												
					9.2° (9.2°)	8.2° (8.2°)	7.5° (7.5°)	5.0° (5.0°)												
10.5					(8.8°)	(6.8°)	(5.3°)	(4.3°)												
					9.2° (9.2°)	8.2° (8.2°)	7.4° (7.4°)	6.5° (6.7°)												
9					(8.6°)	(6.7°)	(5.3°)	(4.3°)	(3.4°)											
					9.4° (9.4°)	8.3° (8.3°)	7.5° (7.5°)	6.4° (6.7°)	5.3° (5.6°)											
7.5					(11.2°)	(8.4°)	(6.5°)	(5.2°)	(4.2°)	(3.4°)										
					11.2° (11.2°)	9.7° (9.7°)	8.5° (8.5°)	7.6° (7.6°)	6.4° (6.8°)	5.3° (6.0°)										
6					(14.8°)	(10.6°)	(8.0°)	(6.2°)	(5.0°)	(4.1°)	(3.4°)									
					14.8° (14.8°)	12.2° (12.2°)	10.2° (10.2°)	8.8° (8.8°)	7.6° (7.7°)	6.3° (6.8°)	5.2° (6.0°)									
4.5					(17.0°)	(13.8°)	(9.9°)	(7.5°)	(5.9°)	(4.8°)	(3.9°)	(3.3°)	(2.7°)							
					24.0° (24.0°)	17.0° (17.0°)	13.1° (13.1°)	10.7° (10.7°)	9.0° (9.0°)	7.4° (7.8°)	6.1° (6.8°)	5.2° (6.0°)	4.4° (4.8°)							
3					(12.3°)	(9.0°)	(7.0°)	(5.6°)	(4.6°)	(3.8°)	(3.2°)	(2.7°)								
					18.4° (18.4°)	13.8° (13.8°)	10.9° (10.9°)	8.7° (9.2°)	7.1° (7.9°)	6.0° (6.8°)	5.1° (5.8°)	4.4° (4.8°)								
1.5					(11.1°)	(8.3°)	(6.5°)	(5.3°)	(4.4°)	(3.7°)	(3.1°)	(2.7°)								
					12.2° (12.2°)	13.6° (14.0°)	10.4° (11.2°)	8.4° (9.2°)	6.9° (7.8°)	5.8° (6.7°)	5.0° (5.6°)	4.3° (4.4°)								
0					(9.1°)	(7.8°)	(6.2°)	(5.0°)	(4.2°)	(3.5°)	(3.0°)	(2.7°)								
					9.1° (9.1°)	13.0° (13.6°)	10.0° (10.9°)	8.1° (9.0°)	6.7° (7.5°)	5.7° (6.4°)	4.9° (5.2°)	3.8° (3.8°)								
-1.5					(8.9°)	(7.5°)	(6.0°)	(4.9°)	(4.1°)	(3.5°)	(3.0°)									
					8.9° (8.9°)	12.6° (12.6°)	9.8° (10.2°)	7.9° (8.5°)	6.6° (7.0°)	5.6° (5.8°)	4.6° (4.6°)									
-3					(9.6°)	(7.4°)	(5.8°)	(4.8°)	(4.0°)	(3.4°)	(3.0°)									
					9.6° (9.6°)	10.9° (10.9°)	9.1° (9.1°)	7.5° (7.5°)	6.2° (6.2°)	5.0° (5.0°)	3.6° (3.6°)									
-4.5					(7.5°)	(5.8°)	(4.8°)	(4.0°)												
						8.7° (8.7°)	7.4° (7.4°)	6.2° (6.2°)	5.0° (5.0°)											
<b>Max. reach 16.8 m</b>																				
-2.7																				(2.6°)
																				4.0° (4.0°)

**Key** Undercarriage stabilisation Not supported 4-point supported

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.

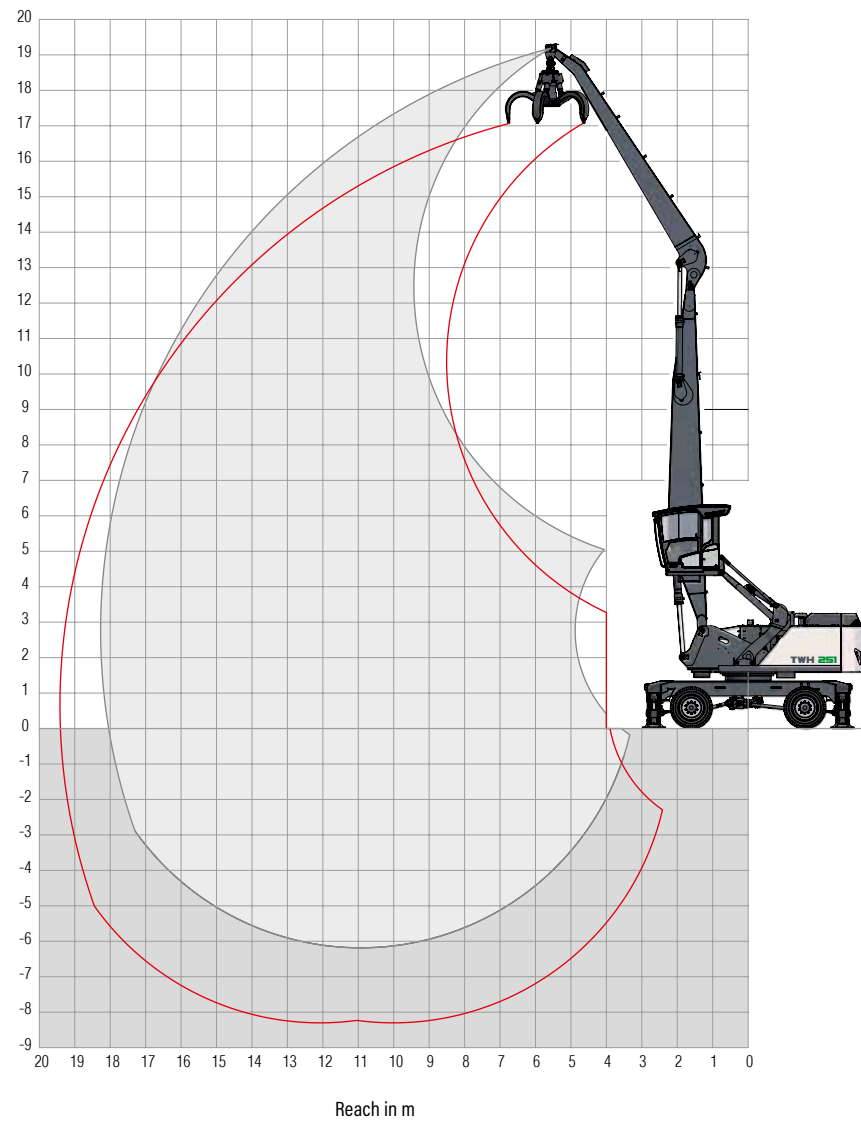


**18.0 m reach with dipper stick**

**Loading equipment**

Boom 9.7 m  
Dipper stick 7.8 m  
Cactus grab 0.8 m<sup>3</sup>

**Recommended attachments upon request**



Height [m]		Reach [m]																		
		4.5	6	7.5	9	10.5	12	13.5	15	16.5	18									
15					(8.8°)	(6.8°)	(5.3°)													
					8.8° (8.8°)	7.9° (7.9°)	6.3° (6.3°)													
13.5						(7.0°)	(5.5°)	(4.3°)												
						7.7° (7.7°)	7.0° (7.0°)	5.9° (5.9°)												
12						(7.0°)	(5.5°)	(4.4°)	(3.5°)											
						7.7° (7.7°)	6.9° (6.9°)	6.3° (6.3°)	5.1° (5.1°)											
10.5						(6.9°)	(5.4°)	(4.4°)	(3.5°)											
						7.7° (7.7°)	6.9° (6.9°)	6.3° (6.3°)	5.4° (5.7°)											
9						(8.8°)	(6.7°)	(5.3°)	(4.3°)	(3.5°)	(2.8°)									
						9.0° (9.0°)	7.9° (7.9°)	7.0° (7.0°)	6.3° (6.3°)	5.4° (5.7°)	4.5° (5.1°)									
7.5						(8.4°)	(6.5°)	(5.2°)	(4.2°)	(3.4°)	(2.8°)									
						9.3° (9.3°)	8.1° (8.1°)	7.2° (7.2°)	6.4° (6.4°)	5.3° (5.7°)	4.5° (5.1°)									
6						(10.7°)	(8.0°)	(6.2°)	(4.9°)	(4.0°)	(3.3°)	(2.7°)								
						11.8° (11.8°)	9.8° (9.8°)	8.4° (8.4°)	7.3° (7.3°)	6.2° (6.5°)	5.2° (5.7°)	4.4° (5.1°)								
4.5						(17.0°)	(13.7°)	(9.8°)	(7.4°)	(5.8°)	(4.7°)	(3.9°)	(3.2°)	(2.7°)	(2.2°)					
						22.0° (22.0°)	16.5° (16.5°)	12.6° (12.6°)	10.3° (10.3°)	8.6° (8.6°)	7.3° (7.4°)	6.0° (6.5°)	5.1° (5.7°)	4.4° (5.0°)	3.7° (4.2°)					
3						(12.0°)	(8.8°)	(6.8°)	(5.4°)	(4.4°)	(3.7°)	(3.1°)	(2.6°)	(2.2°)						
						17.8° (17.8°)	13.3° (13.3°)	10.6° (10.6°)	8.6° (8.8°)	7.0° (7.5°)	5.9° (6.5°)	5.0° (5.7°)	4.3° (4.9°)	3.7° (4.0°)						
1.5						(9.1°)	(8.0°)	(6.3°)	(5.1°)	(4.2°)	(3.5°)	(3.0°)	(2.5°)	(2.2°)						
						9.1° (9.1°)	13.2° (13.5°)	10.2° (10.7°)	8.2° (8.8°)	6.7° (7.5°)	5.7° (6.4°)	4.8° (5.5°)	4.2° (4.7°)	3.7° (3.7°)						
0						(6.9°)	(7.4°)	(5.9°)	(4.8°)	(4.0°)	(3.3°)	(2.9°)	(2.5°)	(2.1°)						
						6.9° (6.9°)	12.6° (13.1°)	9.7° (10.5°)	7.9° (8.7°)	6.5° (7.3°)	5.5° (6.2°)	4.7° (5.3°)	4.1° (4.4°)	3.3° (3.3°)						
-1.5						(6.9°)	(7.1°)	(5.6°)	(4.6°)	(3.8°)	(3.2°)	(2.8°)	(2.4°)							
						6.9° (6.9°)	12.1° (12.1°)	9.4° (9.9°)	7.6° (8.2°)	6.4° (6.9°)	5.4° (5.8°)	4.7° (4.9°)	3.9° (3.9°)							
-3						(7.5°)	(6.9°)	(5.4°)	(4.4°)	(3.7°)	(3.2°)	(2.7°)	(2.4°)							
						7.5° (7.5°)	10.7° (10.7°)	8.9° (8.9°)	7.5° (7.5°)	6.2° (6.2°)	5.3° (5.3°)	4.3° (4.3°)	3.2° (3.2°)							
-4.5						(6.9°)	(5.4°)	(4.4°)	(3.7°)	(3.1°)	(2.7°)									
							8.8° (8.8°)	7.6° (7.6°)	6.4° (6.4°)	5.4° (5.4°)	4.4° (4.4°)	3.4° (3.4°)								
-6								(4.4°)	(3.7°)											
								5.0° (5.0°)	4.1° (4.1°)											
<b>Max. reach 18.3 m</b>																				
-2.7																			(2.1°)	
																			3.6° (3.8°)	

**Key** Undercarriage stabilisation Not supported 4-point supported

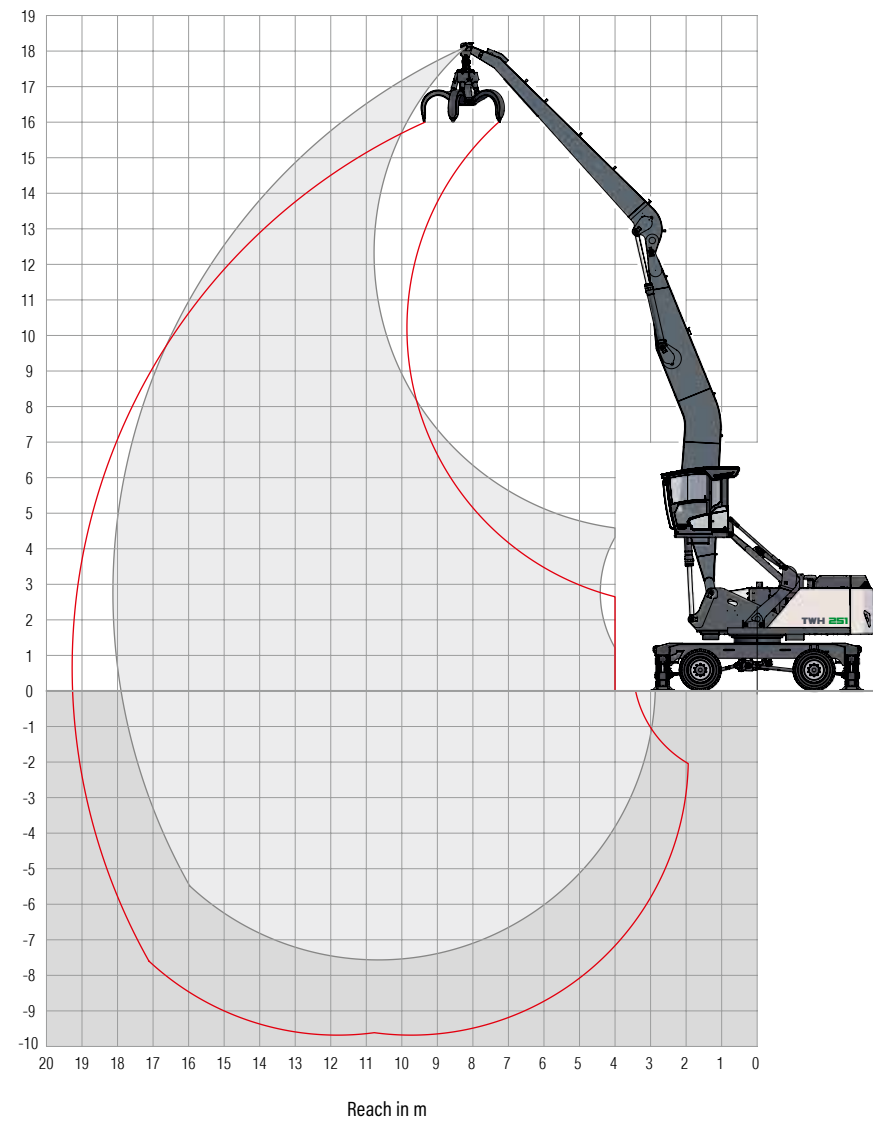
The lift capacity values are stated in metric tons (t). The pump pressure is 350 bar. In accordance with ISO 10567 the lift capacity values represents 75% of the static tipping loads or 87% of the hydraulic lifting force (marked \*). On solid and level ground the values apply to a swing range of 360°. 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.

**18.0 m reach with banana boom**

**Loading equipment**

Boom 9.7 m  
Dipper stick 7.8 m  
Cactus grab 0.8 m<sup>3</sup>

**Recommended attachments upon request**



Height [m]		Reach [m]													
		4.5	6	7.5	9	10.5	12	13.5	15	16.5	18				
15						(6.5°)	(5.3°)								
						6.5° (6.5°)	5.5° (5.5°)								
13.5							(5.4°)	(4.2°)							
							5.9° (5.9°)	5.2° (5.2°)							
12							(5.5°)	(4.3°)	(3.4°)						
							5.8° (5.8°)	5.4° (5.4°)	4.4° (4.4°)						
10.5							(5.4°)	(4.3°)	(3.4°)						
							5.9° (5.9°)	5.4° (5.4°)	5.0° (5.0°)						
9							(6.6°)	(5.3°)	(4.2°)	(3.4°)	(2.7°)				
							6.6° (6.6°)	6.0° (6.0°)	5.5° (5.5°)	5.1° (5.1°)	4.4° (4.4°)				
7.5							(6.5°)	(5.1°)	(4.1°)	(3.3°)	(2.7°)				
							6.8° (6.8°)	6.1° (6.1°)	5.6° (5.6°)	5.1° (5.1°)	4.4° (4.7°)				
6						(7.9°)	(6.1°)	(4.9°)	(3.9°)	(3.2°)	(2.7°)				
						8.3° (8.3°)	7.2° (7.2°)	6.4° (6.4°)	5.7° (5.7°)	5.1° (5.1°)	4.3° (4.7°)				
4.5		(17.0°)	(13.7°)	(9.7°)	(7.3°)	(5.7°)	(4.6°)	(3.8°)	(3.1°)	(2.6°)	(2.1°)				
		20.0° (20.0°)	14.0° (14.0°)	10.8° (10.8°)	8.9° (8.9°)	7.6° (7.6°)	6.6° (6.6°)	5.9° (5.9°)	5.0° (5.2°)	4.3° (4.7°)	3.6° (3.6°)				
3			(11.8°)	(8.7°)	(6.7°)	(5.3°)	(4.3°)	(3.6°)	(3.0°)	(2.5°)	(2.1°)				
			15.7° (15.7°)	11.7° (11.7°)	9.4° (9.4°)	7.9° (7.9°)	6.8° (6.8°)	5.8° (6.0°)	4.9° (5.3°)	4.2° (4.7°)	3.6° (4.0°)				
1.5			(10.4°)	(7.8°)	(6.1°)	(4.9°)	(4.1°)	(3.4°)	(2.8°)	(2.4°)	(2.1°)				
			10.6° (10.6°)	12.4° (12.4°)	9.8° (9.8°)	8.0° (8.0°)	6.6° (6.9°)	5.6° (6.0°)	4.7° (5.3°)	4.1° (4.7°)	3.6° (4.0°)				
0			(7.8°)	(7.2°)	(5.7°)	(4.6°)	(3.8°)	(3.2°)	(2.7°)	(2.3°)					
			7.8° (7.8°)	12.3° (12.6°)	9.6° (10.0°)	7.7° (8.2°)	6.4° (7.0°)	5.4° (6.0°)	4.6° (5.2°)	4.0° (4.5°)					
-1.5			(7.6°)	(6.8°)	(5.4°)	(4.4°)	(3.7°)	(3.1°)	(2.7°)	(2.3°)					
			7.6° (7.6°)	11.9° (12.3°)	9.2° (9.9°)	7.5° (8.1°)	6.2° (6.9°)	5.3° (5.9°)	4.5° (5.1°)	4.0° (4.3°)					
-3			(7.9°)	(6.6°)	(5.2°)	(4.2°)	(3.6°)	(3.0°)	(2.6°)	(2.3°)					
			7.9° (7.9°)	11.6° (11.6°)	9.0° (9.4°)	7.3° (7.8°)	6.1° (6.6°)	5.2° (5.6°)	4.5° (4.7°)	3.9° (3.9°)					
-4.5			(8.6°)	(6.6°)	(5.1°)	(4.2°)	(3.5°)	(3.0°)	(2.6°)						
			8.6° (8.6°)	10.4° (10.4°)	8.6° (8.6°)	7.2° (7.2°)	6.0° (6.0°)	5.1° (5.1°)	4.2° (4.2°)						
-6			(9.3°)	(6.7°)	(5.2°)	(4.2°)	(3.5°)	(3.0°)	(2.7°)						
			9.3° (9.3°)	8.9° (8.9°)	7.5° (7.5°)	6.3° (6.3°)	5.3° (5.3°)	4.4° (4.4°)	3.3° (3.3°)						
											<b>Max. reach 18.1 m</b>				
-2.7															(2.0°)
															3.5° (3.5°)

Key Undercarriage stabilisation Not supported 4-point supported

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 sticking 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.



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