

TWH 228

WASTE HANDLER





129 kW (Diesel, EU Stage V / US EPA Tier 4) 128 kW (Diesel, EU Stage IIIA / US Tier 3) 110 kW (Electric)



28.4 - 30.6 t



max. 13.7 m







TWH 228	28.4 t-30.6 t	
Diesel engine		
	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*
Manufacturer / model	Deutz 6.1 L6	Deutz TCD2012 L06 2V
Design	6-cylinder inline	6-cylinder inline
Functionality	4-cycle diesel, common rail direct injection, turbocharged with intercooler, controlled exhaust gas recirculation, diesel particulate filter with continuous regeneration and SCR catalytic converter	4-cycle diesel, common rail direct injection, turbocharged with intercooler
Engine power	129 kW	128 kW
Rated speed	2,000 rpm	2,000 rpm
Displacement	6.1	6.11
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 Tier 4	EU Stage IIIA / US Tier 3*
Fuel tank	337 I Diesel	337 I Diesel
DEF / Urea tank	32 I AdBlue	-
Electric Motor		
Power	110 kW	
Total connected load	143 kW	
Motor start	Via soft start	
Optional cable reel	Up to 50 metres (other lengths on req	uest)
Electrical system		
Alternator	28 V / 100 A	
Operating voltage	24 V	
Battery	2 × 12 V / 110 Ah / 750 A (in accordance with EN standards)	
Lighting system	2 × LED headlamps, turn indicators ar	nd tail lights
Travel drive		
	ria infinitely variable axial piston motor w I gearshift, 4-wheel drive	vith directly mounted travel brake
Travel speed 1st gear	5 kph	
Travel speed 2nd gear	18 kph	
Gradeability	max. 40%	
Turning radius	8.3 m	
Slewing drive		
Slewing ring	Internally geared, double-row ball tur	ning ring
Drive	2-stage planetary gear with integrate	d multi-disc brake
Uppercarriage swing speed	0-7.5 rpm variable	
Slewing lock	Electrically operated	

Front axle	Rigid axle with integral drum	brake, planetary drive
Rear axle	Oscillating axle with integral of and selectable oscillation lock	
Outriggers	4-point stabiliser system	
Tyres	10.00-20 solid rubber with int	ermediate rings
Brakes		
Service brake	Hydraulic single-circuit brakin acting on all four wheel pairs	ng system
Parking brake	Electrically operated disc brains on both front and rear	
Hydraulic system		
Pump delivery rate	max. 2 × 330 lpm	
Operating pressure	max. 320 / 360 bar	
Hydraulic oil tank	350 l	
Operator's cab		
Cab	Infinitely variable hydraulic he sliding door. Reinforced steel heat insulated panoramic win visibility, front window with recabin roof with sliding blind. Is separate heat exchangers, fre Multifunction touch display, b multiple storage and mountin USB, Bluetooth and hands-fre Vertically adjustable cabin: vi	structure, soundproofed, idows for best all-round oller blind, glass panel in the deating and air conditioning, ssh and recirculated air filters. ottle holder, paper clip and g options. Digital radio (DAB+e), USB charging station 5V.
Air conditioning	Automatic air-conditioning. In 8-speed fan, 10 adjustable air	
Operator's seat	Air-cushioned comfort seat w sticks, safety belt, lumbar sup fatigue-free work due to unive the seat position, seat inclina the seat cushion in relation to	oport and headrest. Enables ersal adjustment options for tion and the arrangement of
Monitoring	Ergonomically arranged, glare Automatic monitoring and sto states (e.g. all hydraulic oil filt coolant and charge air tempe loading, steering), visual and option for the individual sense display. Rear view and side viseparate monitor.	orage of deviating operating ders, hydraulic oil temperature rature, diesel particulate filter audible warning. Diagnostic ors via the multifunction
Noise level	Sound power level (ambience) L _{WA} 99.5 dB(A) (metered) acc. to directive 2000/14/EG L _{WA} 101 dB(A) (guaranteed) acc. to directive 2000/14/EG Sound pressure level (inside the cabin) acc. to standard ISO 6396 L _{PA} 75 dB(A)	Sound power level (ambience) L _{WA} 101.7 dB(A) (metered) acc. to directive 2000/14/EG L _{WA} 102 dB(A) (guaranteed) acc. to directive 2000/14/EG Sound pressure level (inside the cabin) acc. to standard ISO 6396 L _{pA} 70 dB(A)
Vibrations	Weighted r.m.s. value of accel 2.5 m/s² (98 in/s²) Weighted effective value of ac	

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	•	
Undercarriage		
All-wheel drive	•	
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 (10.00-20) with intermediate rings	•	•
Uppercarriage		
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	•	
Travel alarm		•
Electric refuelling pump		•
Lighting protection		•
Special paint (customer paint work)		•

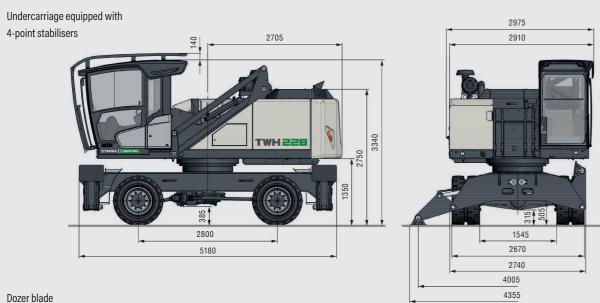
Cab	Standard	Option
Vertically adjustable cabin (max. viewing height of 5.6 m)	•	
Single-pane safety glass (ESG)	•	
Sliding window in cab door	•	
Cabin with penetration resistant glass front and top (classification P5A)		•
Windshield washer system	•	
Roof washer system		•
Air-cushioned operator seat 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 clip	•	
Roof guard grille (FOPS)		•
Cabin front and top guard		•
12 V transformer		•
Digital radio (DAB+, USB, Bluetooth and hands-free system)	•	
12 V socket		•
Fire extinguisher, dry powder with holder		•
Travel alarm with rotating beacon		•
Other equipment		
Close proximity range limiter for dipper stick	•	
Coolant and hydraulic oil level monitoring system	•	
Filter system for attachments		•
Rupture valves for lifting cylinders		•
Rupture valves for stick cylinders		•
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 Connect telematics system, incl. 5 years contract	•	

Specification subject to change without notice.

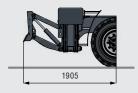
* for low-regulated markets

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





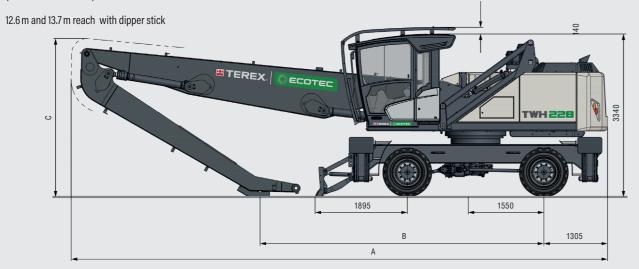
in addition to 4-point stabilisers





Transport Dimensions

(all dimensions in mm)



	12.6 m	13.7 m
A	11000 mm	11005 mm
В	5820 mm	4800 mm
С	3250 mm	3085 mm

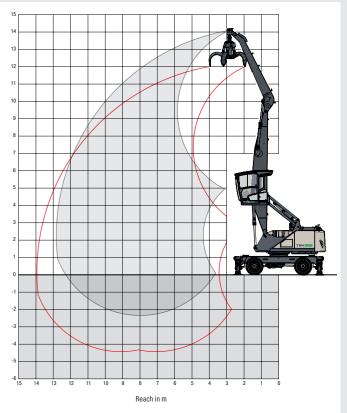
12.6 m reach with dipper stick

Loading equipment

Boom: 7.2 m

Dipper stick: 5.1 m

Cactus grab: 0.6 m³



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 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.

ght [m]	Undercarriage			Reac	h [m]		
	stabilisation	4.5	6	7.5	9	10.5	12
13.5	not supported	(6.3°)					
13.3	4-point supported	6.3° (6.3°)					
12	not supported		(6.6°)	(4.7°)			
12	4-point supported		6.6° (6.6°)	4.7° (4.7°)			
10.5	not supported		(7.5°)	(5.6°)	(4.1°)		
10.5	4-point supported		7.5° (7.5°)	6.5° (6.5°)	4.7° (4.7°)		
•	not supported		(8.0°)	(5.7°)	(4.2°)	(3.2°)	
9	4-point supported		8.0° (8.0°)	7.5° (7.5°)	6.3° (6.3°)	4.3° (4.3°)	
	not supported		(8.0°)	(5.6°)	(4.1°)	(3.2°)	
7.5	4-point supported		8.7° (8.7°)	7.7° (7.7°)	6.3° (6.6°)	4.9° (5.6°)	
	not supported	(9.3°)	(7.7°)	(5.4°)	(4.0°)	(3.1°)	(2.5°)
6	4-point supported	9.3° (9.3°)	9.6° (9.6°)	7.9° (7.9°)	6.2° (6.8°)	4.8° (5.8°)	3.7° (4.1°)
	not supported	(11.3°)	(7.2°)	(5.1°)	(3.9°)	(3.0°)	(2.4°)
4.5	4-point supported	14.1° (14.1°)	10.4° (10.4°)	8.0° (8.3°)	6.0° (6.9°)	4.7° (5.9°)	3.8° (4.8°)
	not supported	(10.0°)	(6.6°)	(4.8°)	(3.7°)	(2.9°)	(2.4°)
3	4-point supported	15.8° (15.8°)	10.7° (11.1°)	7.6° (8.6°)	5.8° (7.0°)	4.6° (5.7°)	3.8° (4.7°)
	not supported	(5.4°)	(6.1°)	(4.5°)	(3.5°)	(2.8°)	(2.3°)
1.5	4-point supported	5.4° (5.4°)	10.2° (11.3°)	7.3° (8.6°)	5.6° (6.9°)	4.5° (5.6°)	3.7° (4.5°)
	not supported	(4.8°)	(5.8°)	(4.3°)	(3.4°)	(2.8°)	(2.3°)
0	4-point supported	4.8° (4.8°)	9.9° (10.6°)	7.1° (8.2°)	5.5° (6.6°)	4.4° (5.2°)	3.7° (3.9°)
	not supported		(5.7°)	(4.2°)	(3.3°)	(2.7°)	
-1.5	4-point supported		9.1° (9.1°)	7.0° (7.3°)	5.4° (5.8°)	4.4° (4.5°)	

		Max. reach 12.8
2.2	not supported	(2.1°)
2.3	4-point supported	3.2° (3.2°)





13.7m reach with dipper stick

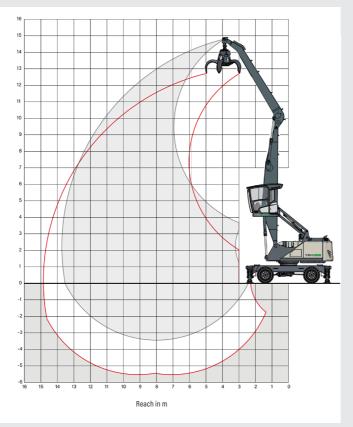
Loading equipment

Boom: 7.2 m

Dipper stick: 6.2 m

Cactus grab: 0.6 m³

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 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



ht [m]	Undercarriage			Reac	h [m]			
	stabilisation	4.5	6	7.5	9	10.5	12	13.5
10.5	not supported		(4.5°)					
13.5	4-point supported		4.5° (4.5°)					
10	not supported			(4.6°)	(3.0°)			
12	4-point supported			4.6° (4.6°)	3.0° (3.0°)			
40.5	not supported			(5.4°)	(4.3°)	(2.7°)		
10.5	4-point supported			5.4° (5.4°)	4.5° (4.5°)	2.7° (2.7°)		
	not supported			(5.9°)	(4.3°)	(3.3°)		
9	4-point supported			6.0° (6.0°)	5.3° (5.3°)	4.6° (4.6°)		
	not supported			(5.8°)	(4.2°)	(3.2°)	(2.5°)	
7.5	4-point supported			6.7° (6.7°)	6.1° (6.1°)	4.9° (5.0°)	3.6° (3.6°)	
	not supported		(7.5°)	(5.6°)	(4.1°)	(3.1°)	(2.5°)	(1.9°)
6	4-point supported		7.5°(7.5°)	7.3° (7.3°)	6.3° (6.3°)	4.9° (5.5°)	3.9° (4.7°)	2.3° (2.3°
	not supported	(8.8°)	(7.5°)	(5.3°)	(3.9°)	(3.0°)	(2.4°)	(1.9°)
4.5	4-point supported	8.8° (8.8°)	9.5° (9.5°)	7.7° (7.7°)	6.1° (6.5°)	4.7° (5.6°)	3.8° (4.7°)	2.9° (2.9°
	not supported	(10.8°)	(6.9°)	(4.9°)	(3.7°)	(2.9°)	(2.3°)	(1.9°)
3	4-point supported	14.3° (14.3°)	10.4° (10.4°)	7.8° (8.1°)	5.8° (6.7°)	4.6° (5.7°)	3.7° (4.7°)	3.0° (3.0°
	not supported	(9.4°)	(6.3°)	(4.6°)	(3.5°)	(2.8°)	(2.2°)	(1.8°)
1.5	4-point supported	14.5° (14.5°)	10.4° (10.9°)	7.4° (8.4°)	5.6° (6.8°)	4.5° (5.6°)	3.7° (4.6°)	2.5° (2.5°
	not supported	(6.8°)	(5.8°)	(4.3°)	(3.3°)	(2.7°)	(2.2°)	
0	4-point supported	6.8° (6.8°)	9.8° (10.8°)	7.0° (8.3°)	5.4° (6.6°)	4.3° (5.4°)	3.6° (4.3°)	
-1.5	not supported 4-point supported	(6.0°) 6.0° (6.0°)	(5.5°) 9.5° (10.0°)	(4.1°) 6.8° (7.7°)	(3.2°) 5.3° (6.2°)	(2.6°) 4.3° (4.9°)	(2.1°) 3.5° (3.8°)	
0			(5.5°)	(4.0°)	(3.1°)			
-3 m			8.3° (8.3°)	6.6° (6.6°)	5.2° (5.2°)			

-3 m		(0.0)	(110)	(011)	
-3 111		8.3° (8.3°)	6.6° (6.6°)	5.2° (5.2°)	
					Max. reach 13.7 m
2.2	not supported				(1.8°)
2.3	A-noint sunnorted				2 3° (2 3°)

Customer Support

We work with our customers to understand their equipment needs to select the product most suited to their business requirements. Terex Ecotec customer support incorporates a range of services including parts, technical support, warranty and financial services.



The Right Part at the Right Time

Terex Ecotec has a full inventory of genuine Terex parts through our global support locations and dealer network. We are committed to getting the right parts delivered at the right time. Using genuine Terex parts ensures optimum performance and reliability.



Delivering on our promise so you can keep yours

Terex Ecotec warrants its new equipment to be free of defects in material or manufacture for a specified period from the date the equipment is first used.



Expert technical support

Terex Ecotec provide highly qualified service personnel to ensure that we have the ability to provide technical support when our customers need it. This support is provided in conjunction with our dealer network. We ensure our customers are supported throughout the lifecycle of their machine.



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