PRODUCT SPECIFICATION



TWH 220

WASTE HANDLER





95 kW (Diesel, EU Stage V / US EPA Tier 4) 95 kW (Diesel, EU Stage IIIA / US Tier 3) 75 kW (Electric)



19.3 - 21.0t









Operating weight without a	ttachments	
TWH 220	19.3-21.0 t	
Diesel engine		
	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*
Manufacturer / model	Deutz TCD 3.6 L04	Deutz TCD 3.6 L04
Design	4-cylinder in-line engine	4-cylinder in-line engine
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	95 kW	95 kW
Rated speed	2,000 rpm	2,000 rpm
Displacement	3.61	3.6
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	305 l Diesel	305 I Diesel
DEF / Urea tank	20 l AdBlue	-
Electric motor		
Power	75 kW	
Total connected load	100 kW	
Motor start	Via soft start	
Optional cable reel	Up to 50 metres (other lengths of	n request)
Electrical system		
Alternator	28 V / 100 A	
Operating voltage	24 V	
Battery	2 × 12 V / 110 Ah/ 750 A (according	to EN)
Lighting system	2 × LED headlamps, turn indicate	ors and tail lights
Travel drive		
Hydrostatic travel drive via int valve, two-speed manual gea	initely variable axial piston motor rshift, 4-wheel drive	with directly mounted travel brake
Travel speed 1st gear	max. 5 kph	
Travel speed 2nd gear	max. 20 kph	
Gradeability	max. 55 %	
Turning radius	7.0 m	
Slewing drive		
Slewing ring	Internally geared, double-row ba	II turning ring
Drive	2-stage planetary gear with integ	grated multi-disc brake
Uppercarriage swing speed	0-8 rpm variable	
Slewing lock	Electrically activated	

Front axle	Planetary drive axle with integra	ted drumbrake, rigidly mounted	
Rear axle	Oscillating planetary drive rear a and selectable oscillating lock	xle with integrated drum brake	
Outriggers	4-point stabilisers 2-point stabilisers with support b	olade	
Tyres	10.00-20 solid rubber with interm	ediate rings	
Brakes			
Service brake	Hydraulic single-circuit braking s acting on all four wheel pairs (dr	,	
Parking brake	Electrically operated spring-load at transmission, acting on both fi		
Hydraulic system			
Max. pump capacity	290 lpm		
Max. operating pressure	320 / 360 bar		
Hydraulic oil tank	2751		
Operator's cab			
Cab	Infinitely variable hydraulic heigh door. Reinforced steel structure, panoramic windows for best all-i with roller blind, glass panel in the Heating and air conditioning, sep and recirculated air filters. Multif holder, paper clip and multiple st Digital radio (DAB+, USB, Bluetoo charging station 5V. Vertically adjustable cabin: view	soundproofed, heat-insulated round visibility, front window the cabin roof with sliding blind. Parate heat exchangers, fresh unction touch display, bottle orage and mounting options. th and hands-free), USB	
Air conditioning	Automatic air-conditioning. Infini 8-speed fan, 10 adjustable air noz		
Operator's seat	Air-cushioned comfort seat with safety belt, lumbar support and I work due to universal adjustmen seat inclination and the arranger relation to the armrests and joys:	neadrest. Enables fatigue-free t options for the seat position, nent of the seat cushion in	
Monitoring	Ergonomically arranged, glare-fr Automatic monitoring and storag (e.g. all hydraulic oil filters, hydra and charge air temperature, dies steering), visual and audible war individual sensors via the multifu side view camera on the right wi	le of deviating operating states ulic oil temperature, coolant el particulate filter loading, ning. Diagnostic option for the unction display. Rear view and	
Noise level	EU Stage V / US Tier 4 E	U Stage IIIA / US Tier 3*	
	Sound power level (ambience) L_{WA} 97.7 dB(A) (metered) acc. to directive 2000/14/EG L_{WA} 99 dB(A) (guaranteed) acc. to directive 2000/14/EG Sound pressure level (inside the cabin) acc. to standard ISO 6396 L_{pA} 72 dB(A)	Sound power level (ambience L_{w_A} 99.3 dB(A) (metered) acc. to directive 2000/14/EG L_{w_A} 100 dB(A) (guaranteed) acc. to directive 2000/14/EG Sound pressure level (inside the cabin) acc. to standard ISO 6396 L_{p_A} 69 dB(A)	
Vibrations	Weighted r.m.s. value of acceleration of upper limbs under 2.5 m/s² (98 in/s²) Weighted effective value of acceleration for the seat and feet under 0.5 m/s² (20 in/s²)		

Engine	Standard	Opti
Intercooler and coolant radiator	•	
Direct electronic fuel injection / common rail	•	
Advanced automatic idle incl. engine shut-off function	•	
Engine diagnostics interface	•	
Temperature-dependent fan drive	•	
Undercarriage		
All-wheel drive	•	
Drum brake	•	
Rear axle oscillating lock	•	
4-point stabilisers	•	
2-point stabilisers with support blade		•
Dozer blade in addition to 4-point stabilisers		•
Stabiliser cylinders with integrated two-way check valves	•	
Piston rod protection on stabiliser cylinders	•	
Tool box	•	
Solid rubber tyres 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	•	

Cab	Standard	Option
Vertically adjustable cabin (max. viewing height of 5.3 m)	•	
Single-pane safety glass (ESG)	•	
Roof guard grille (FOPS)		•
Cabin front and top guard		•
Sliding window in cab door	•	
Windshield washer system	•	
Roof washer system		•
Air-cushioned operator seat with headrest, seatbelt, and lumbar support	•	
Joystick steering	•	
Automatic air conditioning system	•	
Multi-function display	•	
Document clip	•	
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 and working area control		•
Overload warning device		•
Quick coupling on dipper stick	•	
Dipper stick impact protection		•
Active cyclone prefilter (TOP AIR)		•
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.

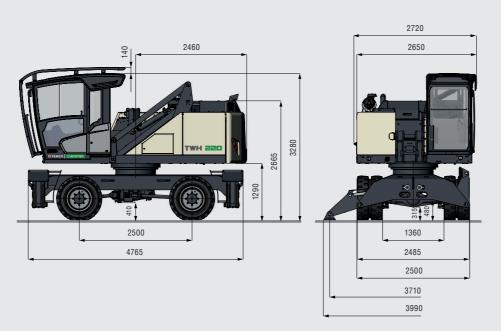
* for low-regulated markets

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

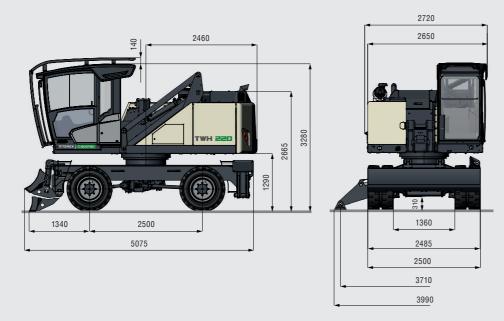


(all dimensions in mm)

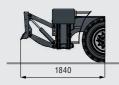
Undercarriage equipped with 4-point stabilisers



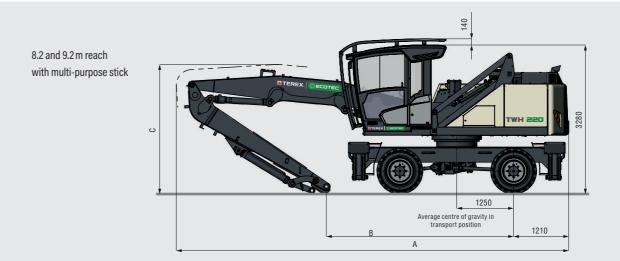
Undercarriage equipped with 2-point stabilisers and support blade



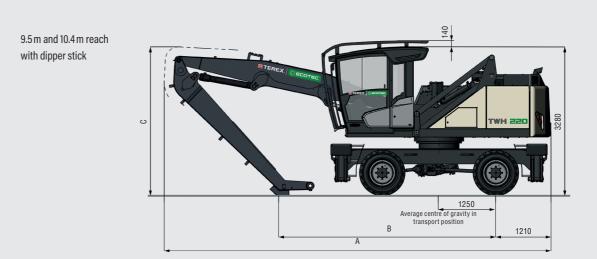
Dozer blade in addition to 4-point stabilisers







	8.2m	9.2m
A	7545 mm	8625 mm
В	3480 mm	4140 mm
С	3150 mm	2850 mm



	9.5m	10.4m
A	8510 mm	8070 mm
В	4745 mm	4035 mm
С	3275 mm	4825 mm





Working Ranges and Load Capacities
TWH 220

9.5 m reach with dipperstick

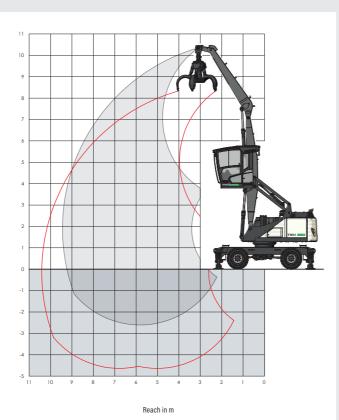
Loading equipment

Boom: 5.2 m

Dipperstick: 4.0 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.



leight [m]	Undercarriage		Reach [m]		
	stabilisation	4.5	6	7.5	9
	not supported	(6.5°)			
9	4-point supported	6.5° (6.5°)			
	2-point supported with blade	6.5° (6.5°)			
	not supported		(4.6°)		
7.5	4-point supported		5.7° (5.7°)		
	2-point supported with blade		5.7° (5.7°)		
	not supported		(4.5°)	(3.2°)	
6	4-point supported		5.7° (5.7°)	4.9° (4.9°)	
	2-point supported with blade		5.7° (5.7°)	4.0° (4.9°)	
	not supported	(6.9°)	(4.4°)	(3.2°)	(2.4°)
4.5	4-point supported	7.5° (7.5°)	6.0° (6.0°)	4.9° (4.9°)	3.8° (4.0°)
	2-point supported with blade	7.5° (7.5°)	5.6° (6.0°)	4.0° (4.9°)	3.0° (4.0°)
	not supported	(6.5°)	(4.3°)	(3.1°)	(2.3°)
3	4-point supported	8.5° (8.5°)	6.3° (6.3°)	5.0° (5.0°)	3.8° (3.9°)
	2-point supported with blade	8.4° (8.5°)	5.4° (6.3°)	3.9° (5.0°)	2.9° (3.9°)
	not supported	(6.1°)	(4.1°)	(3.0°)	(2.3°)
1.5	4-point supported	9.2° (9.2°)	6.5° (6.5°)	4.9° (4.9°)	3.7° (3.7°)
	2-point supported with blade	8.0° (9.2°)	5.2° (6.5°)	3.8° (4.9°)	2.9° (3.7°)
	not supported	(5.9°)	(3.9°)	(2.9°)	(2.3°)
0	4-point supported	8.6° (8.6°)	6.2° (6.2°)	4.5° (4.5°)	3.1° (3.1°)
	2-point supported with blade	7.7° (8.6°)	5.0° (6.2°)	3.7° (4.5°)	2.9° (3.1°)
	not supported	(5.8°)	(3.9°)	(2.9°)	
-1.5	4-point supported	6.8° (6.8°)	5.1° (5.1°)	3.6° (3.6°)	
	2-point supported with blade	6.8° (6.8°)	5.0 (5.1°)	3.6° (3.6°)	
					Max. reach 9.5 n
	not supported				(2.2°)
1.9	4-point supported				3.4° (3.4°)
	2-point supported with blade				2.7° (3.4°)

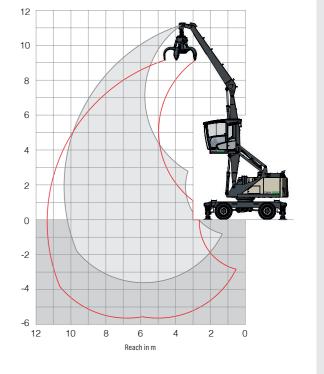
10.4 m reach with dipper stick

Loading equipment

Boom: 5.2 m

Dipper stick: 5.0 m

Cactus grab: 0.4 m³



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eight [m]	Undercarriage		Reach [m]		
	stabilisation	4.5	6	7.5	9
	not supported	(5.2°)			
10.5	4-point supported	5.2° (5.2°)			
	2-point supported with blade	5.2° (5.2°)			
	not supported		(4.7°)		
9	4-point supported		4.9° (4.9°)		
	2-point supported with blade		4.9° (4.9°)		
	not supported		(4.7°)	(3.3°)	
7.5	4-point supported		5.0° (5.0°)	4.5° (4.5°)	
	2-point supported with blade		5.0° (5.0°)	4.1° (4.5°)	
	not supported		(4.7°)	(3.3°)	(2.4°)
6	4-point supported		5.1° (5.1°)	4.5° (4.5°)	3.9° (3.9°)
	2-point supported with blade		5.1° (5.1°)	4.1° (4.5°)	3.1° (3.9°)
	not supported		(4.6°)	(3.2°)	(2.4°)
4.5	4-point supported		5.4° (5.4°)	4.6° (4.6°)	3.9° (4.0°)
	2-point supported with blade		5.4° (5.4°)	4.0° (4.6°)	3.0° (4.0°)
	not supported	(6.8°)	(4.4°)	(3.1°)	(2.4°)
3	4-point supported	7.6° (7.6°)	5.9° (5.9°)	4.8° (4.8°)	3.8° (4.0°)
	2-point supported with blade	7.6° (7.6°)	5.5° (5.9°)	3.9° (4.8°)	3.0° (4.0°)
	not supported	(6.3°)	(4.2°)	(3.0°)	(2.3°)
1.5	4-point supported	8.7° (8.7°)	6.3° (6.3°)	4.9° (4.9°)	3.7° (3.9°)
	2-point supported with blade	8.2° (8.7°)	5.3° (6.3°)	3.8° (4.9°)	2.9° (3.9°)
	not supported	(5.9°)	(4.0)	(2.9°)	(2.2°)
0	4-point supported	9.0° (9.0°)	6.4° (6.4°)	4.8° (4.8°)	3.6° (3.6°)
	2-point supported with blade	7.8° (9.0°)	5.1° (6.4°)	3.7° (4.8°)	2.8° (3.6°)
	not supported	(5.7°)	(3.8°)	(2.8°)	(2.2°)
-1.5	4-point supported	8.1° (8.1°)	5.8° (5.8°)	4.3° (4.3°)	3.0° (3.0°)
	2-point supported with blade	7.6° (8.1°)	4.9° (5.8°)	3.6° (4.3°)	2.8° (3.0°)
	not supported	(5.7°)	(3.8°)	(2.8°)	
-3	4-point supported	6.0° (6.0°)	4.4° (4.4°)	3.1° (3.1°)	
	2-point supported with blade	6.0° (6.0°)	4.4° (4.4°)	3.1° (3.1°)	
					Max. reach 10.4 r
	not supported				(1.9°)
1.9	4-point supported				3.0° (3.0°)
	2-point supported with blade				2.4° (3.0°)



Working Ranges and Load Capacities

TWH 220

8.2 m reach with multi-purpose stick

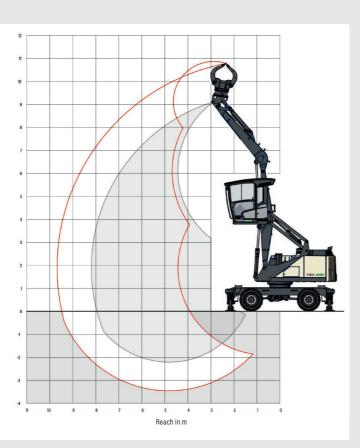
Loading equipment

Boom: 4.2 m

Multi-purpose stick: 3.7 m

Sorting grab

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.



eight [m]	Undercarriage				
	stabilisation	3	4.5	6	7.5
	not supported		(6.8°)		
7.5	4-point supported		6.8° (6.8°)		
	2-point supported with blade		6.8° (6.8°)		
	not supported		(6.8°)	(4.3°)	
6	4-point supported		6.8° (6.8°)	5.9° (5.9°)	
	2-point supported with blade		6.8° (6.8°)	5.5° (5.9°)	
	not supported		(6.8°)	(4.3°)	(3.0°)
4.5	4-point supported		7.2° (7.2°)	6.0° (6.0°)	4.8° (4.8°)
	2-point supported with blade		7.2° (7.2°)	5.4° (6.0°)	3.8° (4.8°)
	not supported	(9.4°)	(6.5°)	(4.2°)	(2.9°)
3	4-point supported	9.4° (9.4°)	8.2° (8.2°)	6.3° (6.3°)	4.8° (4.9°)
	2-point supported with blade	9.4° (9.4°)	8.2° (8.2°)	5.3° (6.3°)	3.7° (4.9°)
	not supported	(10.5°)	(6.2°)	(4.0°)	(2.9°)
1.5	4-point supported	10.5° (10.5°)	9.1° (9.1°)	6.4° (6.4°)	4.7° (4.7°)
	2-point supported with blade	10.5° (10.5°)	8.1° (9.1°)	5.1° (6.4°)	3.7° (4.7°)
	not supported	(7.4°)	(5.9°)	(3.9°)	(2.8°)
0	4-point supported	7.4° (7.4°)	8.8° (8.8°)	6.0° (6.0°)	4.0° (4.0°)
	2-point supported with blade	7.4° (7.4°)	7.8° (8.8°)	5.0° (6.0°)	3.6° (4.0°)
	not supported	(8.0°)	(5.8°)	(3.8°)	
-1.5	4-point supported	8.0° (8.0°)	6.9° (6.9°)	4.5° (4.5°)	
	2-point supported with blade	8.0° (8.0°)	6.9° (6.9°)	4.5° (4.5°)	
					Max. reach 8.1 m
	not supported				(2.5°) 4.0° (4.0°)
1.9	4-point supported				3.2° (4.0°)
	2-point supported with blade				

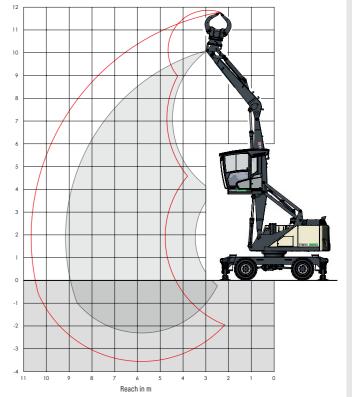
9.2 m reach with multi-purpose stick

Loading equipment

Boom: 5.2 m

Multi-purpose stick: 3.7 m

Sorting grab



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.

leight [m]	Undercarriage		Reac	h [m]	
	stabilisation	4.5	6	7.5	9
	not supported	(6.5°)			
9	4-point supported	6.5° (6.5°)			
	2-point supported with blade	6.5° (6.5°)			
	not supported	(6.8°)	(4.3°)		
7.5	4-point supported	6.8° (6.8°)	5.6° (5.6°)		
	2-point supported with blade	6.8° (6.8°)	5.5° (5.6°)		
	not supported	(6.9°)	(4.3°)	(3.0°)	
6	4-point supported	6.9° (6.9°)	5.6° (5.6°)	4.7° (4.7°)	
	2-point supported with blade	6.9° (6.9°)	5.5° (5.6°)	3.8° (4.7°)	
	not supported	(6.6°)	(4.2°)	(2.9°)	
4.5	4-point supported	7.5° (7.5°)	5.8° (5.8°)	4.7° (4.7°)	
	2-point supported with blade	7.5° (7.5°)	5.3° (5.8°)	3.7° (4.7°)	
	not supported	(6.2°)	(4.0°)	(2.8°)	(2.1°)
3	4-point supported	8.4° (8.4°)	6.1° (6.1°)	4.7° (4.7°)	3.6° (3.6°)
	2-point supported with blade	8.1° (8.4°)	5.1° (6.1°)	3.6° (4.7°)	2.7° (3.6°)
	not supported	(5.8°)	(3.8°)	(2.7°)	(2.1°)
1.5	4-point supported	8.8° (8.8°)	6.2° (6.2°)	4.6° (4.6°)	3.2° (3.2°)
	2-point supported with blade	7.7° (8.8°)	4.9° (6.2°)	3.5° (4.6°)	2.7° (3.2°)
	not supported	(5.6°)	(3.7°)	(2.7°)	
0	4-point supported	8.0° (8.0°)	5.7° (5.7°)	4.1° (4.1°)	
	2-point supported with blade	7.4° (8.0°)	4.8° (5.7°)	3.5° (4.1°)	
	not supported	(5.5°)	(3.6°)	(2.6°)	
-1.5	4-point supported	6.0° (6.0°)	4.4° (4.4°)	3.0° (3.0°)	
	2-point supported with blade	6.0° (6.0°)	4.4° (4.4°)	3.0° (3.0°)	
					Max. reach 9.2
	not supported				(2.0°)
1.9	4-point supported				3.2° (3.2°)
	2-point supported with blade				2.6° (3.2°)



Customer Support Notes

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.



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.



Warranty 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.



Terex Financial Services Financing that works for you

Terex Ecotec are able to offer finance solutions to our customers. Our team of finance professionals know the importance of working closely with customers to understand their unique business challenges as well as their financial goals and requirements. Obtaining financing is often a time-consuming task, so we work hard to provide a reliable, flexible and responsive service.



Delivering On Our Promises, So You Can Keep Yours.





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