



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)





f 🎔 🛗 in

Technical Data

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 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 Tier 4	EU Stage IIIA / US Tier 3*
Fuel tank	305 l Diesel	305 l Diesel
DEF / Urea tank	20 I 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 o	n request)
Electrical system		
Alternator	28 V / 100 A	
Operating voltage	24 V	
Battery	2 × 12 V / 110 Ah/ 750 A (according	g to EN)
Lighting system	2 × LED headlamps, turn indicat	ors and tail lights
Travel drive		
Hydrostatic travel drive via in valve, two-speed manual gea	finitely 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	all turning ring
Drive	2-stage planetary gear with inte	grated multi-disc brake
Uppercarriage swing speed	0-8 rpm variable	

	Oscillating planetary drive rear axle with integrated drum brake and selectable oscillating lock	
Outriggers	4-point stabilisers 2-point stabilisers with support blade	
Tyres	10.00-20 solid rubber with intern	nediate rings
Brakes		
Service brake	Hydraulic single-circuit braking system acting on all four wheel pairs (drum brakes)	
Parking brake	Electrically operated spring-loaded drum brake at transmission, acting on both front and rear axle	
Hydraulic system		
Max. pump capacity	290 lpm	
Max. operating pressure	320 / 360 bar	
Hydraulic oil tank	2751	
Operator's cab		
Cab	Infinitely variable hydraulic heig door. Reinforced steel structure, panoramic windows for best all- with roller blind, glass panel in ti Heating and air conditioning, seg and recirculated air filters. Multi holder, paper clip and multiple s Digital radio (DAB+, USB, Bluetor charging station 5V. Vertically adjustable cabin: view	soundproofed, heat-insulate round visibility, front window he cabin roof with sliding bli parate heat exchangers, fres function touch display, bottle torage and mounting options oth and hands-free), USB
Air conditioning	Automatic air-conditioning. Infinitely variable heating with 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles.	
Operator's seat	Air-cushioned comfort seat with swinging armrests / joystick safety belt, lumbar support and headrest. Enables fatigue-free work due to universal adjustment options for the seat position seat inclination and the arrangement of the seat cushion in relation to the armrests and joysticks.	
Monitoring	Ergonomically arranged, glare-fn 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 multifi side view camera on the right wi	ge of deviating operating sta aulic oil temperature, coolan sel particulate filter loading, rning. Diagnostic option for t unction display. Rear view an
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 (ambient L_{WA} 99.3 dB(A) (metered) and to directive 2000/14/EG L_{WA} 100 dB(A) (guaranteed) acc. to directive 2000/14/E Sound pressure level (inside the cabin) acc. to standard ISO 6396 L_{pA} 69 dB(A)
	Weighted rm e value of acceler	ation of upper limbs under 2.

Planetary drive axle with integrated drumbrake, rigidly mounted

Oscillating planetary drive rear axle with integrated drum brake

Undercarriage Front axle

Rear axle

Engine Standard Option 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 ٠ 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 ٠

Specification subject to change without notice. * for low-regulated markets

Slewing lock



Electrically activated

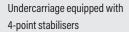
Further optional equipment available on request! Specification subject to change without notice.

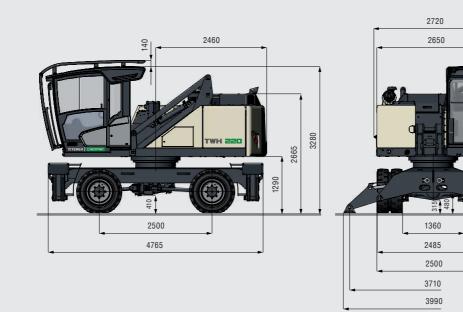
Equipment

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		٠
Rupture valves for lifting cylinders		٠
Rupture valves for stick cylinders		٠
Overload and working area control		٠
Overload warning device		٠
Quick coupling on dipper stick	•	
Dipper stick impact protection		٠
Active cyclone prefilter (TOP AIR)		٠
Lubrication of the grab suspension by central lubrication system	•	
Light packages LED		٠
LED front headlights	•	
LED working lights cabin roof front	•	
Boom cylinder damping system (piston accumulator)		٠
Fuchs Connect telematics system, incl. 5 years contract	•	

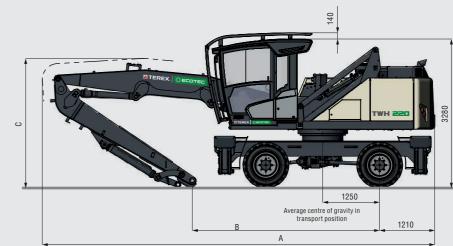
Transport Dimensions

(all dimensions in mm)





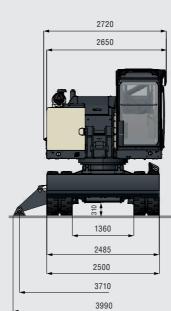




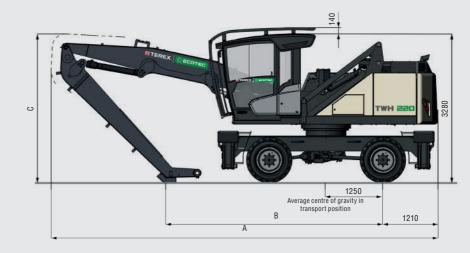
	8.2m	9.2m
A	7545 mm	8625 mm
В	3480 mm	4140 mm
C	3150 mm	2850 mm

Undercarriage equipped with 2-point stabilisers and support blade





9.5 m and 10.4 m reach with dipper stick



Dozer blade in addition to 4-point stabilisers





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



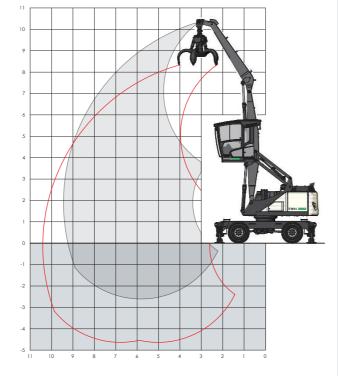
9.5 m reach with dipperstick

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 values apple 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		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
	not supported				(2.2°)
1.9	4-point supported				3.4° (3.4°)
	2-point supported with blade				2.7° (3.4°)



Reach in m

10.4 m reach with dipper stick

Loading equipment

Boom: 5.2 m

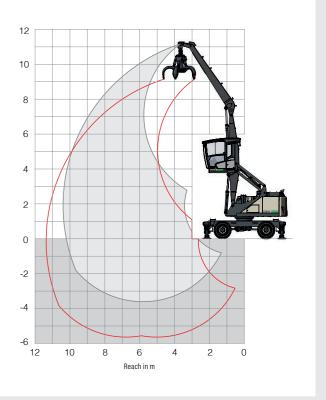
Dipper stick: 5.0 m

Cactus grab: 0.4 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 sub ported" on a level ground.

leight [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	
	not supported				(1.9°)	
1.9	4-point supported				3.0° (3.0°)	
	2-point supported with blade				2.4° (3.0°)	





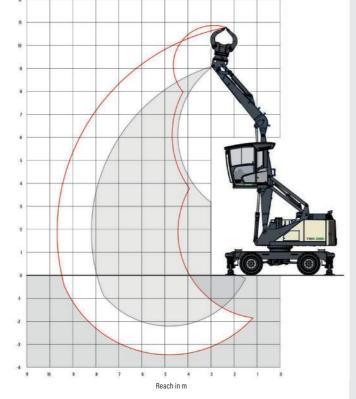
8.2 m reach with multi-purpose stick

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 hotsing 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 store be supported on a level ground.

Height [m]	Undercarriage		Reac	h [m]	
	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 r
	not supported				(2.5°)
1.9					4.0° (4.0°)
	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	

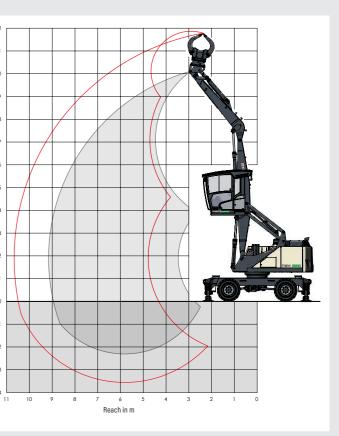
Multi-purpose stick: 3.7 m

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.

Height [m]	Undercarriage		Read	: 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 m
	not supported				(2.0°)
1.9	4-point supported				3.2° (3.2°)
	2-point supported with blade				2.6° (3.2°)

8	9



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.



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.







CAMPSIE

DUNGANNON

32 Farlough Road

Dealer Stamp:

20 Keans Hill Road Campsie Industrial Estate BT47 3YT, Northern Ireland

Dungannon, Co. Tyrone BT71 4DT, Northern Ireland

Tel: +44 (0) 28 87 718 500

Tel.: +44 (0) 28 7122 3110

NEWTON

22 Whittier Street Newton, New Hampshire USA, 03858

Tel: +1 (603) 382 0556

July 2021. The material in this document is for information only and is subject to change without notice. Terex Ecotec assumes no liability resulting from errors or omissions in this document, or from the use of the information contained herein. Due to continual product development we reserve the right to change specifications without notice. Any product performance figures given in this brochure are for guidance purposes only. This information does not constitute an expressed or implied warranty or guarantee, but shows text examples provided. These results will vary depending on product settings, screen media and sizes, feed source and types of material being processed. Photographs are for illustrative purposes only. Some or all of the machines in the illustratives fitted with optional extra. Products and services listed may be trademarks, service marks or trade names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights reserved. Terex is a registered trademark of Terex Corporation in the USA and other countries.

