



TWH 224

WASTE HANDLER



115 kW (Diesel, EU Stage V / US EPA Tier 4) 115 kW (Diesel, EU Stage IIIA / US Tier 3) 90 kW (Electric)





f 🕑 🔠 in



Technical Data

Equipment

Engine

WH 224 22.8-24.2t		Front axle	Planetary drive axle with integrated multi-disc brake, rigidly				
	22.0-24.21		- FIOIIL dxie	mounted			
Engine	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*	Rear axle	Oscillating planetary drive m brake and selectable oscilla	ear axle with integrated multi-diso ting lock		
Manufacturer / model	Deutz TCD 4.1 L4	Deutz TCD 4.1 L4	Outriggers	4-point stabilisers 2-point stabilisers and supp	ort blada		
Design	4-cylinder in-line engine	4-cylinder in-line engine	Tyres	10.00-20 solid rubber with ir			
Functionality	4-cycle diesel, common rail direct injection, turbocharged	4-cycle diesel, common rail direct injection,			.		
	with intercooler, controlled exhaust gas recirculation,	turbocharged with intercooler	Brakes Service brake	Hydraulic single-circuit brak	ving system		
	diesel particulate filter with continuous regeneration			acting on all four wheel pair	s (multi-disc brakes)		
	and SCR catalytic converter	115 1.00	Parking brake	Electrically operated spring-loaded disc brake at transmission, acting on both front and rear axle			
Engine power	115 kW	115 kW	Hydraulic system				
Rated speed Displacement	2,000 rpm 4.11	2,000 rpm 4.11	Pump delivery rate	max. 380 lpm			
Cooling system	Water and charge air	Water and charge air	Operating pressure	max. 320 / 360 bar			
cooling system	cooling with	cooling with	Hydraulic oil tank	3251			
	temperature controlled fan speed	temperature controlled fan speed	Operator's cab				
Exhaust emission standard	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*	Cab	Infinitely variable hydraulic	height-adjustable cabin with		
Fuel tank	260 Diesel 260 Diesel		-	sliding door. Reinforced steel structure, soundproofed, heat			
DEF / Urea tank	321 AdBlue	-	-	insulated panoramic windows for best all-round visibility, front window with roller blind, glass panel in the cabin roof			
Electric Motor			-		nd air conditioning, separate hea culated air filters. Multifunction		
Power	90 kW	90 kW		touch display, bottle holder, paper clip and multiple storage and mounting options. Digital radio (DAB+, USB, Bluetooth and			
Total connected load	max. 118 kW		-	hands-free), USB charging s	tation 5V.		
Motor start	Via soft start			Vertically adjustable cabin:			
Optional cable reel	Up to 50 metres (other lengths or	n request)	Air conditioning	Automatic air-conditioning. Infinitely variable heating wi 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzle			
Electrical system			Operator's seat		with swinging armrests / joystick		
Alternator	28 V / 100 A			safety belt, lumbar support and headrest. Enables fatigue-free work due to universal adjustment options for the seat position			
Operating voltage	24 V		-	seat inclination and the arra	ngement of the seat cushion in		
Battery	$2{\times}12V$ / 110 Ah / 750 A (according	to EN)		relation to the armrests and joystick			
Lighting system	2 × LED headlamps, turn indicato	rs and tail lights	Monitoring	Automatic monitoring and s	re-free multifunction display. torage of deviating operating		
Travel drive				states (e.g. all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, diesel particulate filter loading, steering), visual and audible warning. Diagnostic option for the individual sensors via the multifunction displa Rear view and side view camera on the right with separate monitor			
Hydrostatic travel drive via infi brake valve, two-speed manua	initely variable axial piston motor w al gearshift, 4-wheel drive	ith directly mounted travel					
Travel speed 1 st gear	max. 5 kph						
Travel speed 2 nd gear	max. 18 kph		Noise level	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*		
Gradeability	max. 40 %			Sound power level	Sound power level (ambience)		
Turning radius	7.9 m		_	(ambience) L _{wa} 99 dB(A) (metered) acc. to directive	L _{wa} 99,1 dB(A) (metered) acc. to directive 2000/14/EG		
Slewing drive				2000/14/EG	L _{wa} 102 dB(A) (guaranteed) acc.		
Slewing ring	Internally geared, double-row ba	ll turning ring	-	L _{wa} 100 dB(A) (guaranteed) acc. to directive 2000/14/EG	directive 2000/14/EG Sound pressure level (inside the		
Drive	2-stage planetary gear with integ	grated multi-disc brake		Sound pressure level	cabin) acc. to standard ISO 639		
Uppercarriage swing speed	0–7.5 rpm variable			(inside the cabin) acc. to standard ISO 6396	L _{pA} 74 dB(A)		
Slewing lock	Electrically activated			L _{pA} 72 dB(A)			
			Vibrations	Weighted r.m.s. value of acc under 2.5 m/s ² (98 in/s ²) Weighted effective value of a under 0.5 m/s ² (20 in/s ²)	eleration of upper limbs acceleration for the seat and feet		
			Certified in accordance				

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 • Multi-disc brake • Rear axle oscillating lock • 4-point stabilisers • 2-point stabilisers and 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

Standard Option

•

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

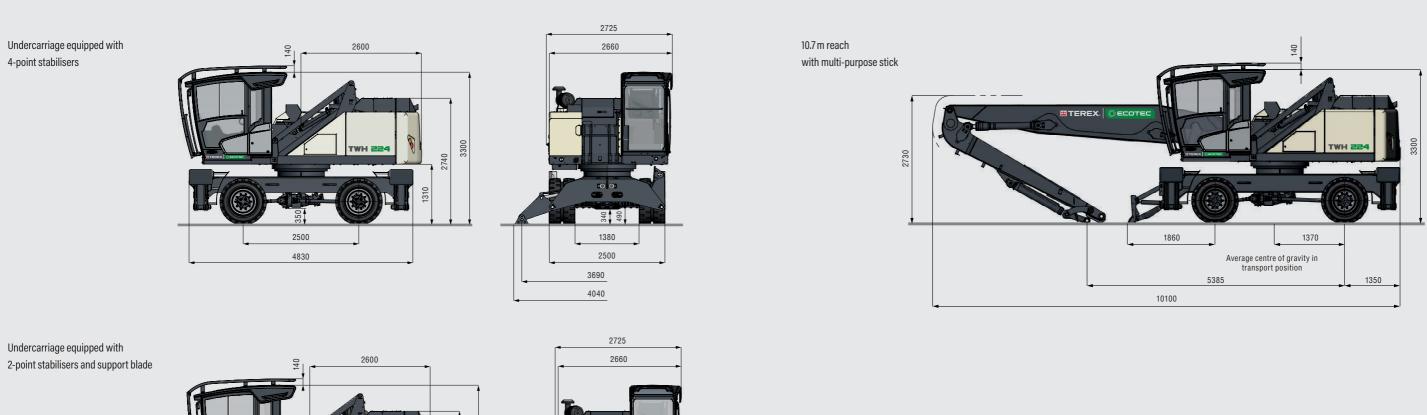


Further optional equipment available on request! Specification subject to change without notice.

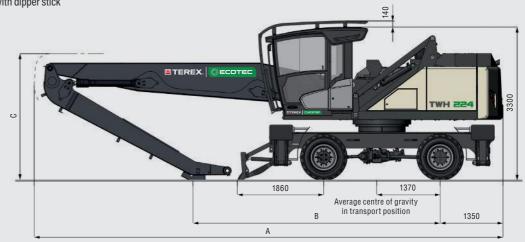
Cab	Standard	Option
Vertically adjustable cabin (max. viewing height of 5.3 m)	•	
Single-pane safety glass (ESG)	•	
Sliding window in cab door	•	
Cabin with penetration resistant glass front and top (classification P5A)		•
Windshield washer system	•	
Roof washer system		•
Air-cushioned operator seat with headrest, seatbelt, and lumbar support	•	
Joystick steering	•	
Automatic air conditioning system	•	
Multi-function display	•	
Document clip	•	
Roof guard grille (FOPS)		•
Cabin front and top guard		•
Digital radio (DAB+, USB, Bluetooth and hands-free system)	•	
Fire extinguisher, dry powder		٠
Travel alarm with rotating beacon		•
Other equipment		
Close proximity range limiter for dipper stick	•	
Coolant and hydraulic oil level monitoring system	•	
Rupture valves for lifting cylinders		٠
Rupture valves for stick cylinders		•
Overload and working area control		•
Overload warning device		٠
Quick coupling on dipper stick	•	
Active cyclone prefilter (TOP AIR)		•
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

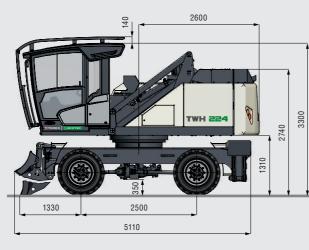
(all dimensions in mm)

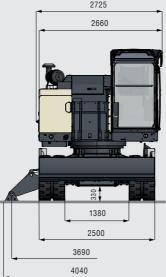


11.0 m and 12.0 m reach with dipper stick

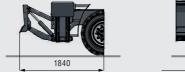


	11.0m	12.0 m
A	10075 mm	10030 mm
В	5310 mm	4240 mm
C	2730 mm	3030 mm





Dozer blade in addition to 4-point stabilisers







4 5

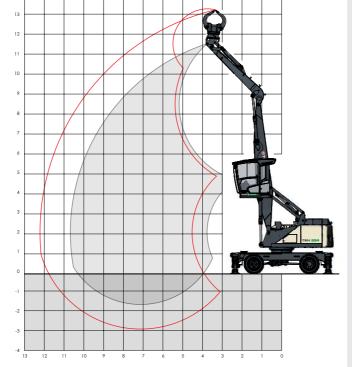
10.7 m reach with multi-purpose stick

Loading equipment

Boom: 6.5 m Multi-purpose stick: 4.0 m Sorting grab: 0.45 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 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 (grah, 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 round. on a level ground.

leight [m]	Undercarriage			Reach [m]		
	stabilisation	4.5	6	7.5	9	10.5
	not supported		(5.0°)	(3.4°)		
9	4-point supported		6.3° (6.3°)	5.0° (5.0°)		
	2-point supported with support blade		6.3° (6.3°)	4.4° (5.0°)		
	not supported		(4.9°)	(3.4°)	(2.4°)	
7.5	4-point supported		6.3° (6.3°)	5.4° (5.6°)	4.0° (4.0°)	
	2-point supported with support blade		6.3° (6.3°)	4.4° (5.6°)	3.2° (4.0°)	
	not supported	(7.7°)	(4.8°)	(3.3°)	(2.4°)	
6	4-point supported	8.3° (8.3°)	6.7° (6.7°)	5.4° (5.8°)	3.9° (4.9°)	
	2-point supported with support blade	8.3° (8.3°)	6.3° (6.7°)	4.3° (5.8°)	3.1° (5.1°)	
	not supported	(7.1°)	(4.5°)	(3.2°)	(2.3°)	
4.5	4-point supported	9.8° (9.8°)	7.5° (7.6°)	5.2° (6.3°)	3.9° (4.8°)	
	2-point supported with support blade	9.6° (9.8°)	6.0° (7.4°)	4.2° (6.1°)	3.1° (5.0°)	
	not supported	(6.4°)	(4.2°)	(3.0°)	(2.2°)	(1.7°)
3	4-point supported	11.4° (11.8°)	7.1° (8.3°)	5.0° (6.3°)	3.8° (4.7°)	2.9° (3.7°)
	2-point supported with support blade	8.6° (11.6°)	5.6° (8.3°)	3.9° (6.5°)	3.0° (4.9°)	2.3° (3.8°)
	not supported	(5.8°)	(3.9°)	(2.8°)	(2.1°)	(1.7°)
1.5	4-point supported	7.6° (7.6°)	6.8° (8.7°)	4.8° (6.1°)	3.7° (4.6°)	2.9° (3.6°)
	2-point supported with support blade	7.3° (7.3°)	5.2° (8.9°)	3.7° (6.3°)	2.8° (4.8°)	2.2° (3.8°)
	not supported	(5.6°)	(3.7°)	(2.7°)	(2.1°)	
0	4-point supported	6.2° (6.2°)	6.6° (8.5°)	4.7° (6.0°)	3.6° (4.5°)	
	2-point supported with support blade	6.2° (6.2°)	5.0° (8.8°)	3.6° (6.2°)	2.8° (4.7°)	
	not supported			(2.7°)		
-1.5	4-point supported			4.6° (5.9°)		
	2-point supported with support blade			3.6° (6.1°)		
						Reach max. 10.7 r
	not supported					(1.6°)
2.0	4-point supported					2.8° (3.6°)
	2-point supported with support blade					2.2° (3.7°)



Reach in m

11.0 m reach with dipper stick		

Loading equipment

Boom: 6.5 m

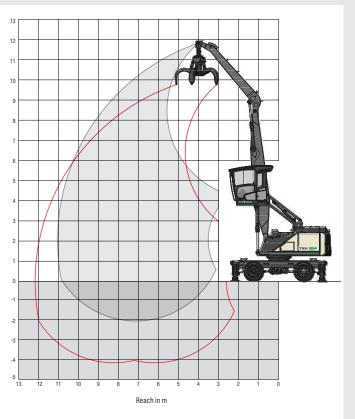
Dipper stick: 4.4 m Cactus grab: 0.6 m³

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 are stated in metric tons (t). The pump pressure is 360 bar. In accordance with ISO 10667 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 round.

on a level ground.

Height [m]	Undercarriage			Reach [m]		
	stabilisation	4.5	6	7.5	9	10.5
	not supported		(5.2°)			
10.5	4-point supported		5.6° (5.6°)			
	2-point supported with support blade		5.6° (5.6°)			
	not supported		(5.3°)	(3.6°)		
9	4-point supported		6.3° (6.3°)	5.6° (5.6°)		
	2-point supported with support blade		6.3° (6.3°)	4.7° (5.6°)		
	not supported		(5.2°)	(3.7°)	(2.7°)	
7.5	4-point supported		6.3° (6.3°)	5.7° (5.7°)	4.2° (4.9°)	
	2-point supported with support blade		6.3° (6.3°)	4.7° (5.7°)	3.5° (4.9°)	
	not supported		(5.1°)	(3.6°)	(2.6°)	
6	4-point supported		6.7° (6.7°)	5.6° (5.9°)	4.2° (5.2°)	
	2-point supported with support blade		6.7° (6.7°)	4.6° (5.9°)	3.5° (5.3°)	
	not supported	(7.5°)	(4.8°)	(3.4°)	(2.6°)	(2.0°)
4.5	4-point supported	9.6° (9.6°)	7.5° (7.5°)	5.5° (6.3°)	4.1° (5.1°)	3.2° (4.0°)
	2-point supported with support blade	9.6° (9.6°)	6.3° (7.5°)	4.5° (6.3°)	3.4° (5.3°)	2.6° (4.2°)
	not supported	(6.8°)	(4.5°)	(3.3°)	(2.5°)	(2.0°)
3	4-point supported	11.6° (11.6°)	7.4° (8.4°)	5.3° (6.6°)	4.0° (5.0°)	3.2° (3.9°)
	2-point supported with support blade	9.2° (11.6°)	6.0° (8.4°)	4.3° (6.8°)	3.3° (5.2°)	2.6° (4.1°)
	not supported	(6.2°)	(4.2°)	(3.1°)	(2.4°)	(1.9°)
1.5	4-point supported	10.1° (10.1°)	7.1° (9.0°)	5.1° (6.4°)	3.9° (4.9°)	3.1° (3.9°)
	2-point supported with support blade	8.5° (9.6°)	5.6° (9.2°)	4.1° (6.7°)	3.2° (5.1°)	2.5° (4.1°)
	not supported	(5.9°)	(4.0°)	(3.0°)	(2.3°)	(1.9°)
0	4-point supported	6.9° (6.9°)	6.8° (8.8°)	5.0° (6.2°)	3.8° (4.8°)	3.1° (3.9°)
	2-point supported with support blade	6.9° (6.9°)	5.4° (9.2°)	3.9° (6.5°)	3.1° (5.0°)	2.5° (4.0°)
	not supported		(3.9°)	(2.9°)	(2.3°)	
-1.5	4-point supported		6.8° (8.7°)	4.9° (6.2°)	3.8° (4.7°)	
	2-point supported with support blade		5.3° (9.1°)	3.9° (6.4°)	3.0° (5.0°)	
						Reach max. 11.0
	not supported					(1.8°)
2.0	4-point supported					2.9° (3.7°)
	2-point supported with support blade					2.4° (3.8°)



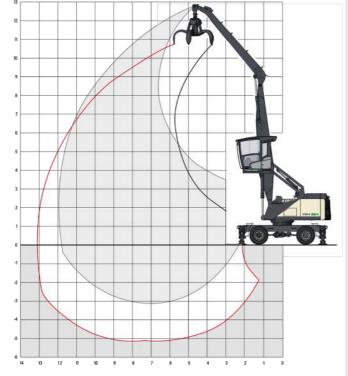


12.0 m reach with dipper stick

Loading equipment

Boom: 6.5 m Dipper stick: 5.45 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.



Reach in m

eight [m]	Undercarriage			Reach [m]			
	stabilisation	4.5	6	7.5	9	10.5	12.0
	not supported			(3.7°)			
10.5	4-point supported			4.3° (4.3°)			
	2-point supported with support blade			4.3° (4.3°)			
	not supported			(3.8°)	(2.8°)		
9	4-point supported			5.0° (5.0°)	4.0° (4.0°)		
	2-point supported with support blade			4.9° (5.0°)	3.6° (4.0°)		
	not supported			(3.8°)	(2.8°)	(2.1°)	
7.5	4-point supported			5.0° (5.0°)	4.3° (4.7°)	3.1° (3.1°)	
	2-point supported with support blade			4.9° (5.0°)	3.6° (4.7°)	2.7° (3.1°)	
	not supported		(5.6°)	(3.7°)	(2.7°)	(2.1°)	
6	4-point supported		5.8° (5.8°)	5.3° (5.3°)	4.3° (4.8°)	3.3° (4.1°)	
	2-point supported with support blade		5.8° (5.8°)	4.8° (5.3°)	3.6° (4.8°)	2.7° (4.3°)	
	not supported		(5.1°)	(3.6°)	(2.6°)	(2.0°)	
4.5	4-point supported		6.6° (6.6°)	5.6° (5.7°)	4.2° (5.1°)	3.3° (4.0°)	
	2-point supported with support blade		6.6° (6.6°)	4.6° (5.7°)	3.5° (5.1°)	2.7° (4.2°)	
	not supported	(7.3°)	(4.7°)	(3.4°)	(2.5°)	(2.0°)	(1.5°)
3	4-point supported	10.0° (10.0°)	7.6° (7.6°)	5.4° (6.2°)	4.1° (5.0°)	3.2° (4.0°)	2.6° (3.1°)
	2-point supported with support blade	9.8° (10.0°)	6.2° (7.6°)	4.4° (6.2°)	3.3° (5.3°)	2.6° (4.1°)	2.1° (2.8°)
	not supported	(6.5°)	(4.3°)	(3.1°)	(2.4°)	(1.9°)	(1.5°)
1.5	4-point supported	11.5° (12.0°)	7.2° (8.7°)	5.2° (6.5°)	3.9° (4.9°)	3.1° (3.9°)	2.6° (3.1°)
	2-point supported with support blade	8.9° (12.0°)	5.8° (8.5°)	4.2° (6.7°)	3.2° (5.1°)	2.5° (4.1°)	2.0° (3.1°)
	not supported	(6.1°)	(4.1°)	(3.0°)	(2.3°)	(1.9°)	
0	4-point supported	9.2° (9.2°)	6.9° (8.8°)	5.0° (6.3°)	3.8° (4.8°)	3.1° (3.8°)	
	2-point supported with support blade	8.2° (8.9°)	5.4° (9.2°)	4.0° (6.5°)	3.1° (5.0°)	2.5° (4.0°)	
	not supported	(5.8°)	(3.9°)	(2.9°)	(2.2°)	(1.8°)	
-1.5	4-point supported	7.4° (7.4°)	6.7° (8.6°)	4.9° (6.1°)	3.8° (4.7°)	3.0° (3.8°)	
	2-point supported with support blade	7.4° (7.4°)	5.2° (9.0°)	3.8° (6.4°)	3.0° (4.9°)	2.4° (3.9°)	
						()	Reach max. 12.0 I
	not supported						(1.5°)
2.0	4-point supported						2.6° (2.9°)
	2-point supported with support blade						2.0° (2.9°)





TWH 224 Working

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.

