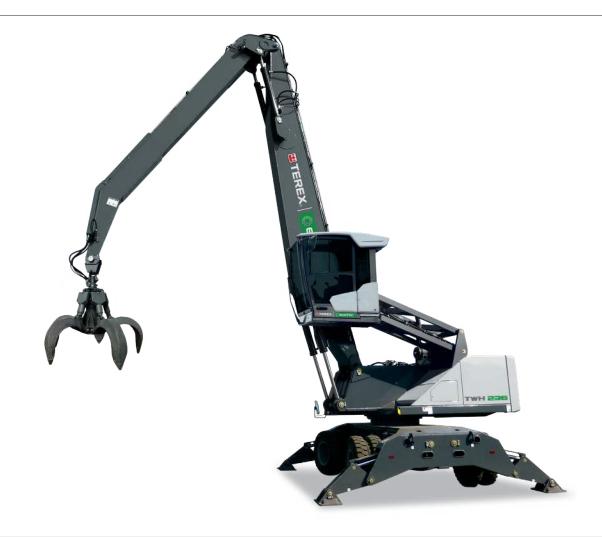
PRODUCT SPECIFICATION



TWH 236

WASTE HANDLER





160 kW (Diesel, EU Stage V / US EPA Tier 4) 148 kW (Diesel, EU Stage IIIA / US Tier 3) 132 kW (Electric)



33.0 - 35.5 t



max. 16.0 m







Technical Data

TWIL 000	00.0.05.5.1		Frant aula	Diamatama duiva and a critic inte	d duum hualta	
TWH 236 Diesel engine	33.0-35.5 t		Front axle	Planetary drive axle with integrated rigidly mounted	d drum brake,	
Dieserengine	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*	Rear axle	Planetary drive axles with integrate with self aligning bearing and switch		
Manufacturer / model	Deutz TCD 6.1 L6	Deutz TCD2013 L6	Outriggers	4-point stabilisers		
Design	6-cylinder in-line engine	6-cylinder in-line engine	Tyres	Elastic, solid rubber 8 × 12.00-20		
Functionality	4-stroke engine, direct	4-stroke engine, direct	Brakes			
	common-rail fuel injection, turbocharger with charge air intercooling, controlled	common-rail fuel injection, turbocharger with charge air intercooling	Service brake	Hydraulically operated single-servi acting on all four wheel pairs	ce brake system	
	exhaust gas recirculation, diesel particle filter with a continuously regenerating		Parking brake	Electronically-operated disc brake on the driving transmission acting	on both axles	
	system and SCR catalytic		Hydraulic system			
Engine newer	converter	148 kW	Max. flow rate	2 × 330 l/min		
Engine power	160 kW		Max. operating pressure	320 / 360 bar		
Rated speed	2,000 rpm	2,000 rpm	Hydraulic oil tank	366 l		
Displacement	6.11	6.11	Operator's cab			
Cooling system	Water / charge air cooling with temperature-cont- rolled fan speed	Water / charge air cooling with temperature-controlled fan speed	Cab	Infinitely variable hydraulic height- sliding door. Reinforced steel struc	structure, soundproofed, heat	
Exhaust emission standard	EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*		insulated panoramic windows for b front window with roller blind, glas		
Fuel tank	315 I diesel	315 I diesel		with sliding blind. Heating and air o	onditioning, separate heat	
DEF / Urea tank	32 I Ad Blue	-		exchangers, fresh and recirculated touch display, bottle holder, paper of		
Electric motor				and mounting options. Digital radio (DAB+, USB, Bluetooth a		
Power	132 kW			hands-free), USB charging station & Vertically adjustable cabin: viewing		
Total connected load	170 kW		Air conditioning	Automatic air-conditioning. Infinite		
Motor start	Via soft start			8-speed fan, 10 adjustable air nozzl	es, 3 defroster nozzles	
Optional cable reel	Up to 50 metres (other length	ns on request)	Operator's seat	Air-cushioned comfort seat with swinging armrests / joystick safety belt, lumbar support and headrest. Enables fatigue-free		
Electrical system				work due to universal adjustment of	ptions for the seat position,	
Alternator	28 V / 100 A			seat inclination and the arrangeme relation to the armrests and joystic		
Operating voltage	24 V		Monitoring	Ergonomically arranged, glare-free	multifunction display.	
Battery	2 × 12 V / 110 Ah / 760 A (as po	er EN)		Automatic monitoring and storage of deviating operating states (e.g. all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, diesel particulate filter		
Lighting system	2 × LED floodlights at the fro	nt of the machine,				
	rear parking lights and indica	ator lights		loading, steering), visual and audib option for the individual sensors via		
Travel drive				Rear view and side view camera on		
Hydrostatic drive through infi brake valves, 2-gear transmis	,	or with directly mounted travel	Noise level	monitor EU Stage V / US Tier 4	EU Stage IIIA / US Tier 3*	
Travel speed 1st Gear	max. 5 km/h			Sound power level (outdoor area)	Sound power level (out-	
Travel speed 2nd Gear	max. 17 km/h			L _{wa} 98.8 dB(A) (measured) as per directive 2000/14/EC	door area) L _{wa} 101.3 dB(A) (measured	
Gradeability	max. 35 %			L _{wA} 101 dB(A) (guaranteed) as per	as per directive 2000/14/	
Turning radius	9.2 m			directive 2000/14/EC Sound power level (inside the	EC L _{wa} 102 dB(A) (guaranteed	
Slewing drive				cab) as per the directive ISO 6396 L_{nA}	as per directive 2000/14/ EC	
Slewing ring	Double slewing ring with inner teeth			67 dB(A)	Sound power level (inside	
Drive	2-stage planetary gear with	integrated multi-disk brake			the cab) as per the directive ISO	
Uppercarriage swing speed	0-7 rpm infinitely variable				6396 L _{pA} 67 dB(A)	
Slewing lock	Electrically operated		Vibrations	Weighted r.m.s. value of acceleration	on of upper limbs	
	,			under 2.5 m/s ² (98 in/s ²) Weighted effective value of acceler	ation for the seat and feet	
				under 0.5 m/s ² (20 in/s ²)		

^{*} for low-regulated markets



Equipment TWH 236

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 (12.00-20) 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	•	
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		•
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 Connect telematics system , incl. 5 years contract	•	

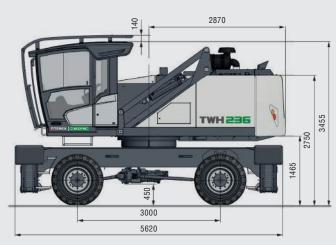
Further optional equipment available on request! Specification subject to change without notice.

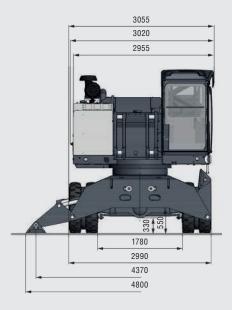
Dimensions

(all dimensions in mm)

Undercarriage equipped with

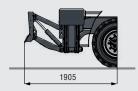
4-point stabilisers





Dozer blade

in addition to 4-point stabilisers





Transport Dimensions



	14.7 m	15 m	16 m
A	12610 mm	12730 mm	12695 mm
В	6380 mm	6455 mm	5960 mm
С	3040 mm	3125 mm	3620 mm





14.7 m reach with multi-purpose stick

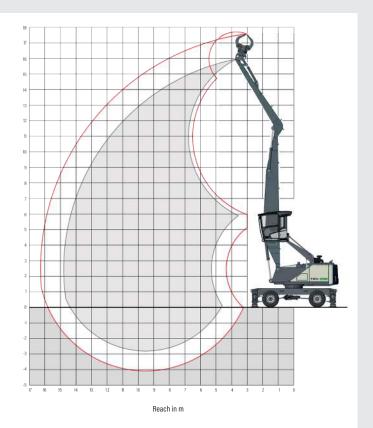
Loading equipment

Boom: 8.5 m

Dipper stick: 5.6 m

Sorting grapple: 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 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	10.5	12	13.5
15	not supported		(4.6°)					
15	4-point supported		4.6° (4.6°)					
13.5	not supported			(5.4°)				
13.3	4-point supported			5.4° (5.4°)				
12	not supported			(6.7°)	(5.1°)	(3.4°)		
12	4-point supported			6.7° (6.7°)	5.5° (5.5°)	3.4° (3.4°)		
10.5	not supported			(7.1°)	(5.2°)	(3.9°)	(2.6°)	
10.5	4-point supported			7.6° (7.6°)	6.6° (6.6°)	5.4° (5.4°)	2.6° (2.6°)	
0	not supported			(7.0°)	(5.1°)	(3.9°)	(3.0°)	
9	4-point supported			7.8° (7.8°)	6.7° (6.7°)	5.9° (5.9°)	4.7° (4.7°)	
7.5	not supported		(9.8°)	(6.8°)	(5.0°)	(3.8°)	(2.9°)	(2.3°)
	4-point supported		9.9° (9.9°)	8.1° (8.1°)	6.9° (6.9°)	5.9° (5.9°)	4.9° (5.2°)	3.0° (3.0°)
	not supported	(13.7°)	(9.2°)	(6.4°)	(4.7°)	(3.6°)	(2.9°)	(2.3°)
6	4-point supported	13.7° (13.7°)	10.8° (10.8°)	8.5° (8.5°)	7.1° (7.1°)	6.0° (6.1°)	4.8° (5.3°)	3.9° (4.4°)
4.5	not supported	(12.8°)	(8.3°)	(5.9°)	(4.4°)	(3.5°)	(2.8°)	(2.2°)
4.5	4-point supported	17.1° (17.1°)	11.8° (11.8°)	9.0° (9.0°)	7.4° (7.4°)	5.8° (6.2°)	4.7° (5.3°)	3.9° (4.5°)
•	not supported		(7.4°)	(5.4°)	(4.2°)	(3.3°)	(2.6°)	(2.2°)
3	4-point supported		12.5° (12.5°)	9.3° (9.4°)	7.1° (7.5°)	5.6° (6.2°)	4.6° (5.3°)	3.8° (4.4°)
1.5	not supported		(6.8°)	(5.0°)	(3.9°)	(3.1°)	(2.5°)	(2.1°)
1.5	4-point supported		7.6° (7.6°)	8.9° (9.4°)	6.8° (7.5°)	5.4° (6.2°)	4.5° (5.1°)	3.7° (4.2°)
•	not supported		(6.1°)	(4.8°)	(3.7°)	(3.0°)	(2.5°)	(2.1°)
0	4-point supported		6.1° (6.1°)	8.6° (9.0°)	6.6° (7.2°)	5.3° (5.9°)	4.4° (4.9°)	3.7° (3.9°)
	not supported		(6.2°)	(4.7°)	(3.6°)	(2.9°)	(2.4°)	
-1.5	4-point supported		6.2° (6.2°)	8.1° (8.1°)	6.5° (6.6°)	5.2° (5.4°)	4.3° (4.4°)	

		Max. read
2.5	not supported	(1.8
2.5	4-point supported	2.6° (2.6° (2.10°

Working Ranges and Load Capacities

15.0 m reach with dipper stick

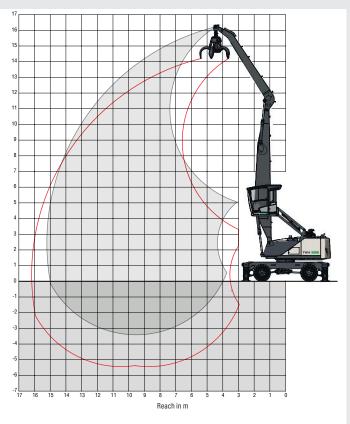
Loading equipment

Boom: 8.5 m

Dipper stick: 6.2 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 10567 he 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	Reach [m]									
	stabilisation	4.5	6	7.5	9	10.5	12	13.5	15		
15	not supported		(5.5°)	(3.7°)							
15	4-point supported		5.5° (5.5°)	3.7° (3.7°)							
13.5	not supported			(5.7°)	(4.3°)						
13.3	4-point supported			5.7° (5.7°)	4.3° (4.3°)						
12	not supported			(6.5°)	(5.5°)	(4.1°)					
12	4-point supported			6.5° (6.5°)	5.7° (5.7°)	4.3° (4.3°)					
10.5	not supported			(7.2°)	(5.5°)	(4.2°)	(3.2°)				
10.5	4-point supported			7.2° (7.2°)	6.6° (6.6°)	5.6° (5.6°)	3.8° (3.8°)				
•	not supported			(7.4°)	(5.4°)	(4.1°)	(3.2°)	(2.5°)			
9	4-point supported			7.6° (7.6°)	6.7° (6.7°)	5.9° (5.9°)	5.1° (5.1°)	2.6° (2.6°)			
7.5	not supported			(7.1°)	(5.3°)	(4.0°)	(3.2°)	(2.5°)			
7.5	4-point supported			8.0° (8.0°)	6.9° (6.9°)	6.0° (6.0°)	5.1° (5.3°)	4.1° (4.1°)			
•	not supported		(9.7°)	(6.7°)	(5.0°)	(3.9°)	(3.1°)	(2.5°)			
6	4-point supported		10.5° (10.5°)	8.5° (8.5°)	7.1° (7.1°)	6.2° (6.2°)	5.0° (5.4°)	4.1° (4.8°)			
4.5	not supported	(13.9°)	(8.8°)	(6.3°)	(4.7°)	(3.7°)	(3.0°)	(2.4°)	(2.0°)		
4.5	4-point supported	16.3° (16.3°)	11.6° (11.6°)	9.0° (9.0°)	7.4° (7.4°)	6.1° (6.3°)	5.0° (5.5°)	4.1° (4.8°)	2.9° (2.9°)		
_	not supported	(6.4°)	(7.9°)	(5.8°)	(4.4°)	(3.5°)	(2.8°)	(2.3°)	(1.9°)		
3	4-point supported	6.4° (6.4°)	12.5° (12.5°)	9.5° (9.5°)	7.4° (7.7°)	5.8° (6.4°)	4.8° (5.5°)	4.0° (4.7°)	3.4° (3.4°)		
1.5	not supported		(7.1°)	(5.3°)	(4.1°)	(3.3°)	(2.7°)	(2.3°)	(1.9°)		
1.5	4-point supported		10.3° (10.3°)	9.2° (9.7°)	7.1° (7.8°)	5.6° (6.4°)	4.7° (5.4°)	3.9° (4.6°)	3.3° (3.3°)		
•	not supported		(6.7°)	(5.0°)	(3.9°)	(3.2°)	(2.6°)	(2.2°)	(1.9°)		
0	4-point supported		7.0° (7.0°)	8.9° (9.5°)	6.8° (7.6°)	5.5° (6.3°)	4.5° (5.2°)	3.9° (4.3°)	3.0° (3.0°)		
1.5	not supported		(6.5°)	(4.9°)	(3.8°)	(3.1°)	(2.6°)	(2.2°)			
-1.5	4-point supported		6.5° (6.5°)	8.7° (8.7°)	6.7° (7.1°)	5.4° (5.9°)	4.5° (4.8°)	3.8° (3.8°)			
•	not supported			(4.8°)	(3.8°)	(3.1°)					
-3	4-point supported			7.6° (7.6°)	6.3° (6.3°)	5.2° (5.2°)					

Max. reach 15.2 m (1.9°) not supported 2.5 4-point supported 2.4° (2.4°)





16.0 m reach with dipper stick

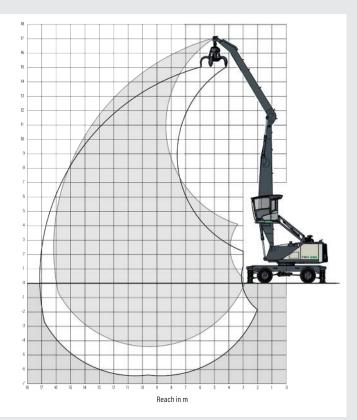
Loading equipment

Boom: 8.5 m

Dipper stick: 7.2 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.



Height [m]	Undercarriage				Read	: h [m]			
	stabilisation	4.5	6	7.5	9	10.5	12	13.5	15
16.5			(4.2°) 4.2° (4.2°)						
15	not supported			(4.6°)	(3.3°)				
	4-point supported			4.6° (4.6°)	3.3° (3.3°)				
13.5	not supported				(4.7°)	(3.5°)			
13.3	4-point supported				4.7°(4.7°)	3.5° (3.5°)			
12	not supported				(5.4°)	(4.3°)	(3.2°)		
12	4-point supported				5.4° (5.4°)	4.6° (4.6°)	3.2° (3.2°)		
10.5	not supported				(5.7°)	(4.3°)	(3.4°)	(2.6°)	
10.5	4-point supported				5.9° (5.9°)	5.3° (5.3°)	4.3° (4.3°)	2.6° (2.6°)	
•	not supported				(5.6°)	(4.3°)	(3.3°)	(2.6°)	
9	4-point supported				6.2° (6.2°)	5.6° (5.6°)	5.1° (5.1°)	3.7° (3.7°)	
7.5	not supported			(7.2°)	(5.5°)	(4.2°)	(3.3°)	(2.6°)	(2.1°)
7.5	4-point supported			7.2° (7.2°)	6.4° (6.4°)	5.7° (5.7°)	5.1° (5.1°)	4.3° (4.5°)	2.8° (2.8°)
	not supported			(7.1°)	(5.2°)	(4.0°)	(3.2°)	(2.5°)	(2.0°)
6	4-point supported			7.8° (7.8°)	6.7° (6.7°)	5.9° (5.9°)	5.1° (5.2°)	4.2° (4.6°)	3.5° (3.7°)
4.5	not supported	(10.1°)	(9.4°)	(6.6°)	(4.9°)	(3.8°)	(3.0°)	(2.4°)	(2.0°)
4.5	4-point supported	10.1° (10.1°)	10.6° (10.6°)	8.4° (8.4°)	7.1° (7.1°)	6.1° (6.1°)	5.0° (5.3°)	4.1° (4.7°)	3.4° (4.1°)
2	not supported	(13.0°)	(8.4°)	(6.0°)	(4.6°)	(3.6°)	(2.9°)	(2.4°)	(1.9°)
3	4-point supported	16.9° (16.9°)	11.7° (11.7°)	9.0° (9.0°)	7.4° (7.4°)	5.9° (6.2°)	4.8° (5.4°)	4.0° (4.7°)	3.4° (4.0°)
	not supported	(5.3°)	(7.5°)	(5.5°)	(4.2°)	(3.4°)	(2.7°)	(2.3°)	(1.9°)
1.5	4-point supported	5.3° (5.3°)	12.5° (12.5°)	9.4° (9.4°)	7.2° (7.6°)	5.7° (6.3°)	4.7° (5.4°)	3.9° (4.6°)	3.3° (3.9°)
	not supported	(3.8°)	(6.9°)	(5.1°)	(4.0°)	(3.2°)	(2.6°)	(2.2°)	(1.8°)
0	4-point supported	3.8° (3.8°)	9.2° (9.2°)	8.9° (9.5°)	6.9° (7.6°)	5.5° (6.3°)	4.5° (5.3°)	3.8° (4.5°)	3.3° (3.7°)
	not supported	(3.9°)	(6.5°)	(4.8°)	(3.8°)	(3.1°)	(2.5°)	(2.1°)	(1.8°)
-1.5	4-point supported	3.9° (3.9°)	7.1° (7.1°)	8.7° (9.1°)	6.7° (7.3°)	5.4° (6.0°)	4.4° (5.0°)	3.8° (4.1°)	3.2° (3.2°)
	not supported		(6.4°)	(4.7°)	(3.7°)	(3.0°)	(2.5°)	(2.1°)	
-3	4-point supported		6.8° (6.8°)	8.3° (8.3°)	6.5° (6.7°)	5.3° (5.5°)	4.4° (4.5°)	3.6° (3.6°)	

		Max. reach 16.6 m
2.5	not supported	(1.7°)
2.5	4-point supported	1.9° (1.9°)



CAMPSIE

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

Tel.: +44 (0) 28 7122 3110

DUNGANNON

32 Farlough Road Dungannon, Co. Tyrone BT71 4DT, Northern Ireland

Tel: +44 (0) 28 87 718 500

Deal	ρr	Stam	r

NEWTON

22 Whittier Street Newton, New Hampshire USA, 03858

Tel: +1 (603) 382 0556

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