DANDO TERRIER

Designed for site investigation and environmental analysis, the Terrier's ultra-small footprint and crawler mounted design allows the user to carry out a wide range of sampling methods in confined spaces where access is limited. Available with percussive mast, rotary mast or both.

Percussive

Rotary

Interchangeable Masts

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Made in Britain since 1867

Versatility

The percussive Terrier is capable of disturbed and undisturbed sampling, SPT, U4 and dynamic probing. The rotary mast attachment extends the rig's range of use to include continuous flight and hollow stem augering, tricone & drag bits, rotary core drilling as well as DTH hammers.

2-Piece Drop Hammer

A 2-piece drop hammer for sampling and testing is incorporated in the mast assembly, with a hydraulic cylinder for recovery of casing and sampling tools.

Small Footprint

Mounted on a small crawler unit, the compact and extremely versatile Dando Terrier is capable of a wide range of drilling techniques in areas of restricted space and difficult access. The rig can even fit through a standard doorway.

Easy Transportation

The Terrier can be tracked easily across difficult terrain and through tight spaces, causing very little disturbance to its surroundings. Its compact design also allows for easy transportation to and from site by van, trailer or large pickup truck.

*All images are for reference only and may not represent the exact specification outlined in this document.

Detachable Mast

The entire percussive mast assembly can be detached from the main superstructure for operation in areas where access and space are particularly limited.

Inclined Slopes

A hydraulic tilting undercarriage allows operation on inclined slopes up to 30 degrees from horizontal.

On-board Storage

The rig's deck area includes storage space for all required drilling tools and accessories.

Concrete Coring

Available as an option, the rotary concrete coring head is useful for when concrete and tarmac overlie the area to be sampled.

Rotary Drilling Version

The Terrier is also available as an ultra-compact multipurpose rotary drilling rig capable of:

- Continuous flight and hollow stem augering
- Drilling with tricone & drag bits
- Rotary core drilling
- DTH hammer drilling
- Rotary Air Blast (RAB)

The interchangeable mast option allows the operator to switch easily between rotary and percussive drilling.

19 HP Engine

Now fitted with a 3 cylinder 19 HP diesel engine providing increased power and smoother operation. Easy to access for simple maintenance.

Percussive Specification

CHASSIS	
Description	Purpose built crawler chassis with rubber tracks
	Incorporates controls, engine mounting and tool storage
	Steel deck fitted with tilt mechanism

ENGINE	
Type	19 HP water cooled 3 cylinder diesel engine. Other options available.

MAST ASSEMBLY	
Description	Steel mast hydraulically raised and lowered. Entire mast assembly can be detached from the main superstructure for operation in areas of restricted space. 1m measurement scale for easy monitoring of depth progress
Working Stroke	1.3m stroke
Head Travel Speed Up	12 m/min (39 ft/min)
Head Travel Speed Down	17 m/min (55 ft/min)
Pullback	5000 kgf (11023 lbf)

DRIVE HAMMER	
Description	Two-piece drive hammer running on 2 guide bars
	Fully guarded weight
Hammer Speed	0-50 blows pm
Hammer Drop	500-750 mm
Hammer Weight	50 kg or 63.5 kg

CONTROL PANEL	
Drilling Controls	Located at the side of the rig. Includes emergency stop
Tracking Controls	Located at rear of the rig, with folding foot plate. Option: Radio remote control tracking

STABILISERS	
Type	Removable stabiliser legs

HYDRAULIC PTO	
Max. Flow for PTO	48 lpm
Max. Working Pressure	152 bar

OPTIONAL EQUIPMENT
Rotary concrete coring head
Remote drilling kit - the whole control panel and mast can be removed and operated at up to 30m away from the main base unit
Casing extractor

Rotary Specification

ROTARY HEAD	
Description	Driven by a hydraulic motor fitted with a 2 speed gearbox with manual gear change. 3/4” integral side inlet air/water swivel with BW rod connection.
Motor	63, 75 or 160 cc. Other options available
Guide Ring	200 mm effective ID. Other options available
Gearbox Ratio	7:1 - 1:1

ROTARY HEAD MOTOR OPTION 1 *		
Motor	63 cc	
High Range	Max Torque: 140 nm/ 103 ft-lb	Max Spindle Speed: 600 rpm
Low Range:	Max Torque: 980 nm/ 723 ft-lb	Max Spindle Speed: 85 rpm

ROTARY HEAD MOTOR OPTION 2 *		
Motor	75 cc	
High Range	Max Torque: 180 nm/ 133 ft-lb	Max Spindle Speed: 470 rpm
Low Range:	Max Torque: 1260 nm/ 929 ft-lb	Max Spindle Speed: 70 rpm

ROTARY HEAD MOTOR OPTION 3*		
Motor	150 cc	
High Range	Max Torque: 320 nm/ 236 ft-lb	Max Spindle Speed: 250 rpm
Low Range:	Max Torque: 2240 nm/ 1652 ft-lb	Max Spindle Speed: 35 rpm

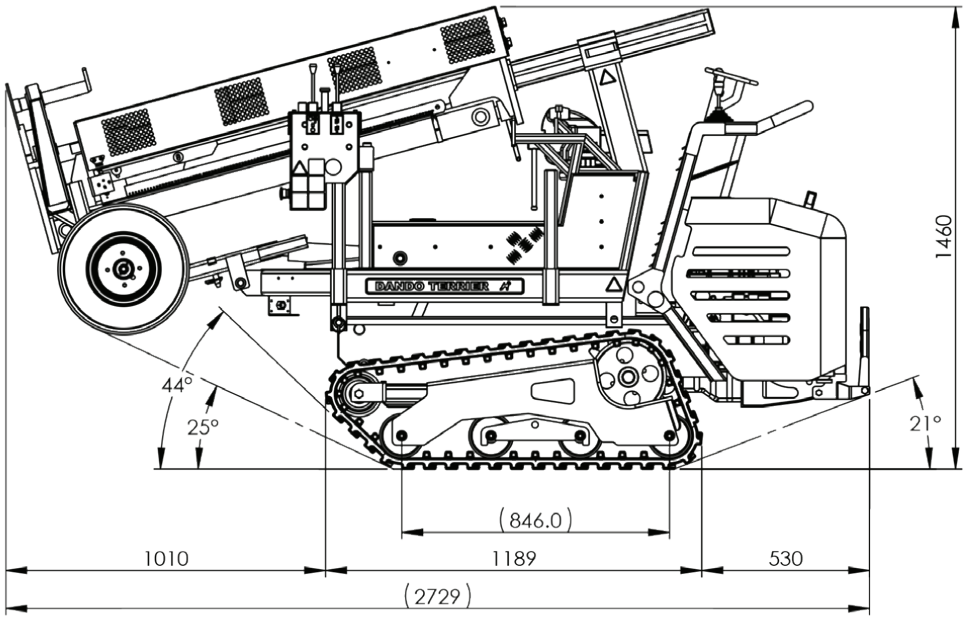
*Head performance figures are theoretical. Speeds given are for an unloaded head

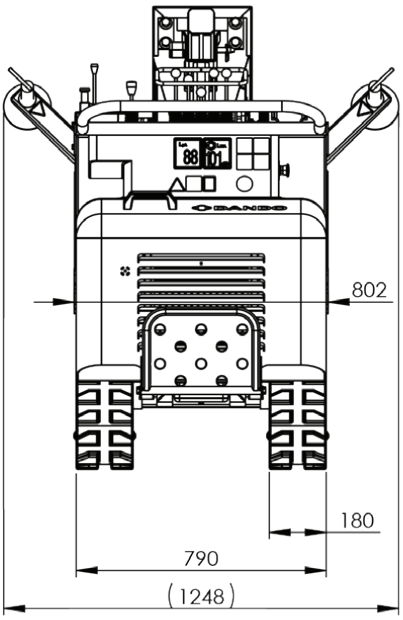
FEED AND HOIST SYSTEM	
Description	Provided by a single double-acting ram transmitting adjustable hydraulic load to the rotary head.
Head Travel Speed Up	11.5 m/min (37.7 ft/min)
Head Travel Speed Down	16 m/min (52.5 ft/min)
Pullback	5000 kgf (11023 lbf)
Pulldown	500 kgf (1102 lbf)
Working Stroke	2.2 m to accommodate 1.5 m effective length drill rods
Drilling Inclination	45° to 90° (Optional)

SAFETY FEATURES
2 emergency stop buttons
Hydraulic system protection via relief valves
Safety cage

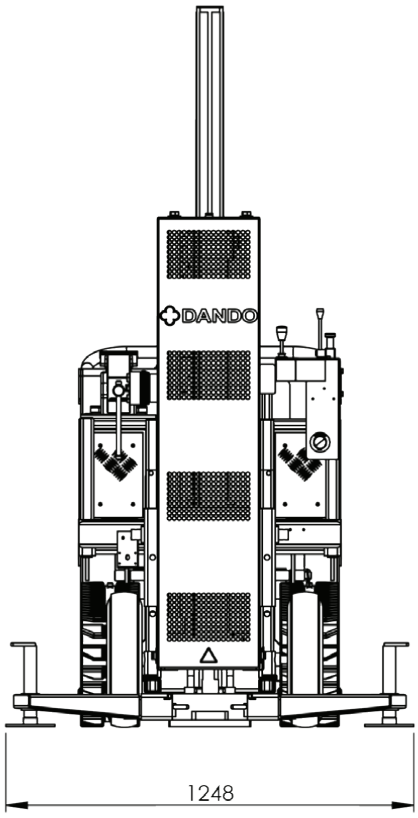
OPTIONAL EQUIPMENT
Chalwyn valve and spark arrestor
Wireless remote for tracking
Casing extractor
Angle drilling to 45°

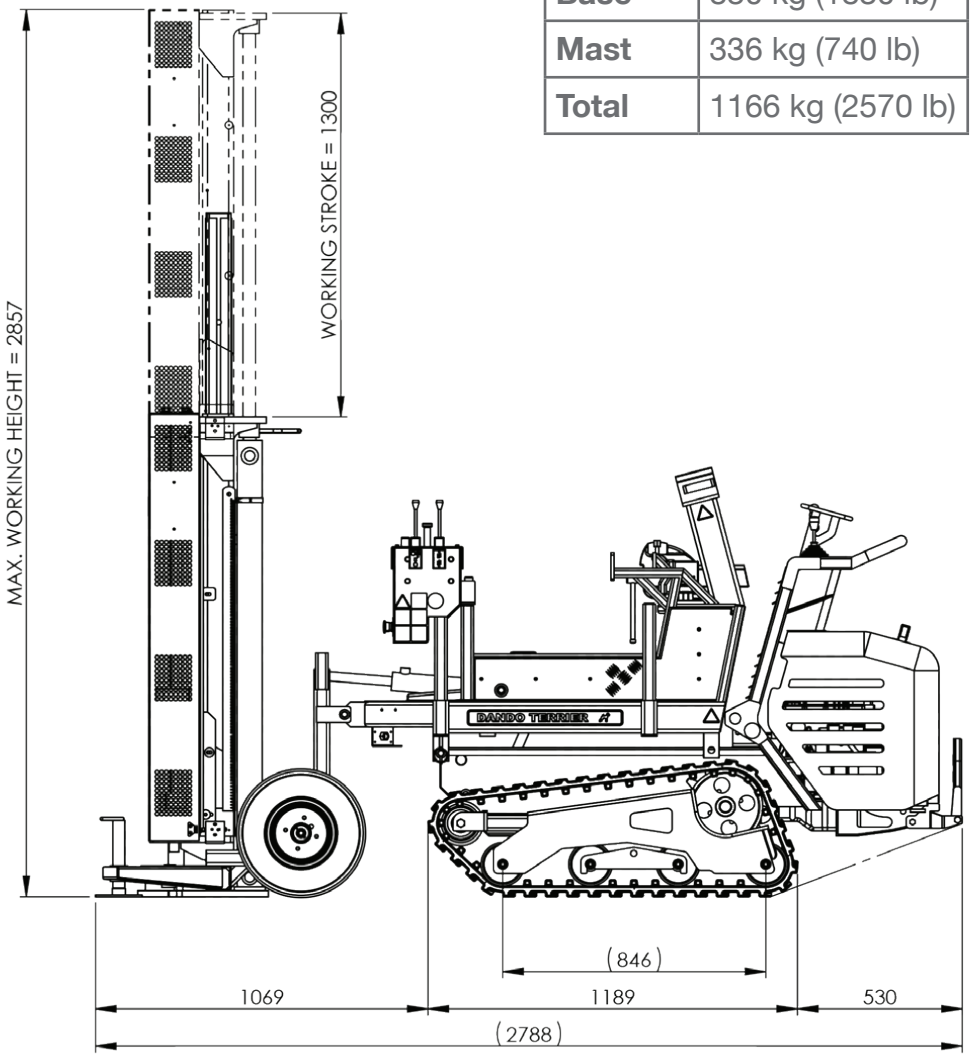
Percussive Terrier Dimensions



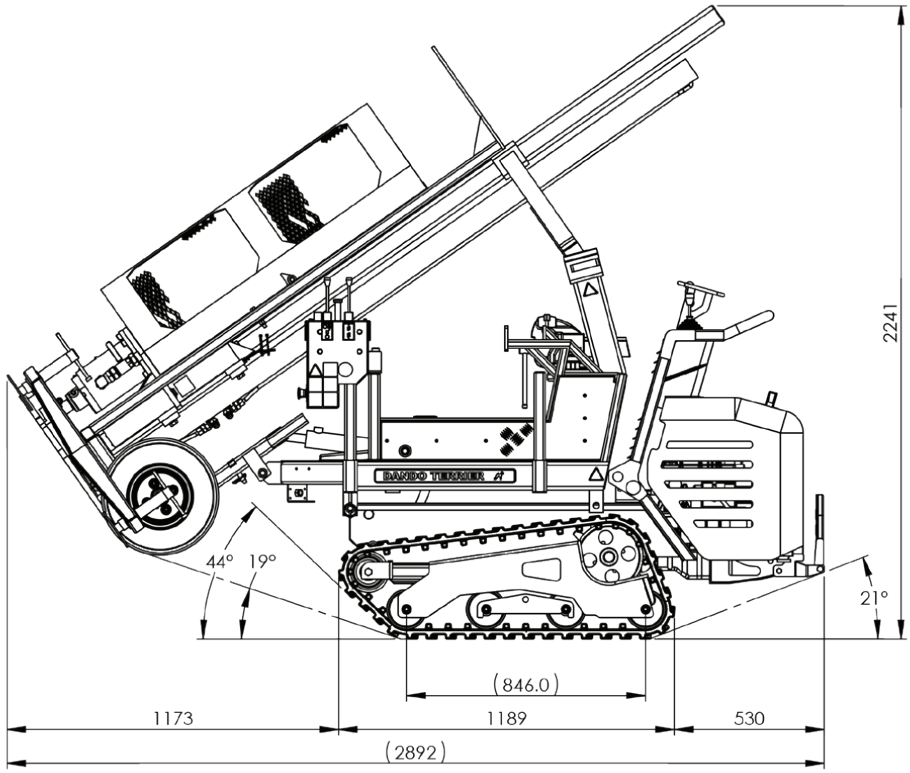


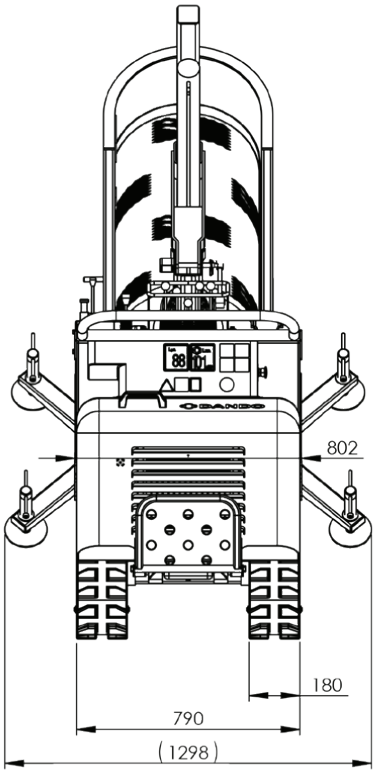
WEIGHT	
Base	830 kg (1830 lb)
Mast	336 kg (740 lb)
Total	1166 kg (2570 lb)



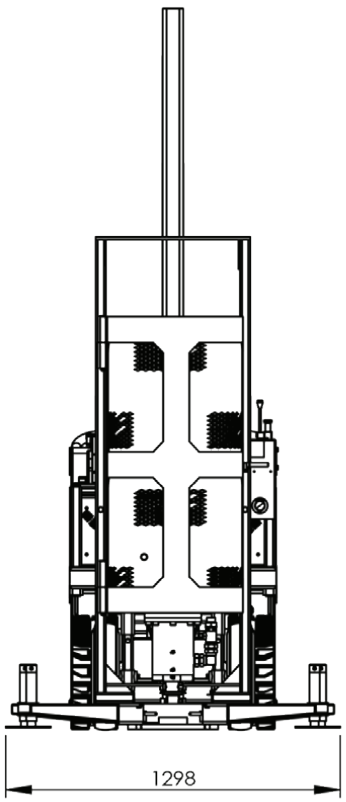


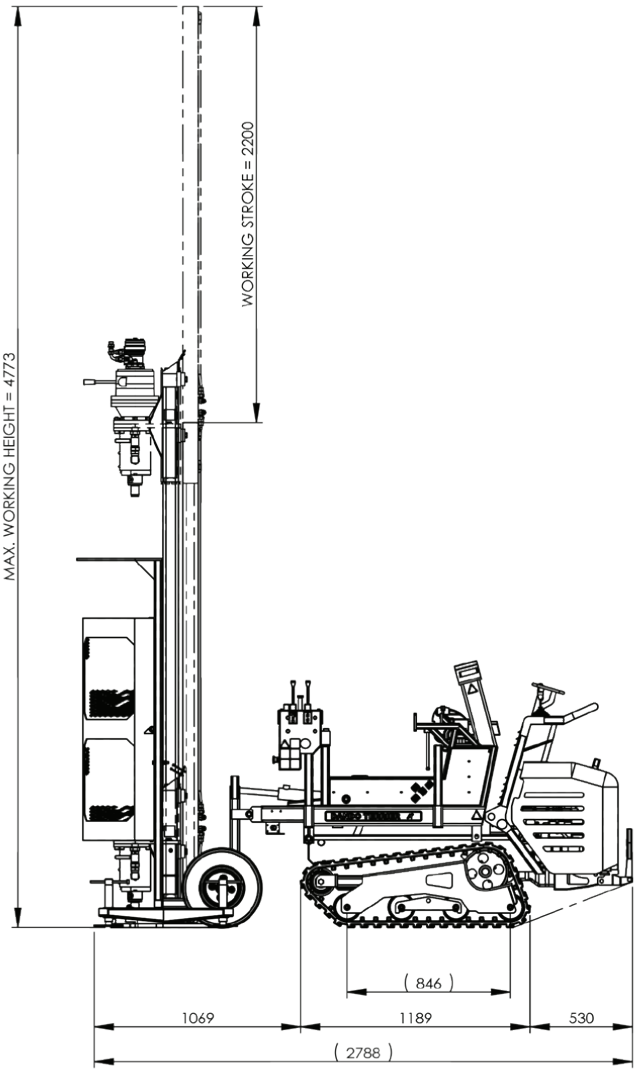
Rotary Terrier Dimensions





WEIGHT	
Base	830 kg (1830 lb)
Mast	408 kg (899 lb)
Total	1238 kg (2729 lb)





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