



AGD Equipment Limited

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**PILING RIGS
AND EQUIPMENT**

01789 292227

info@agd-equipment.co.uk

AGD Equipment Limited
Avonbrook House
198 Masons Road
Stratford-upon-Avon
Warwickshire
CV37 9LQ
United Kingdom



COMACCHIO CH 150
**Dual purpose compact
rotary / CFA piling rig**

www.agd-equipment.co.uk



COMACCHIO CH 150 Self-erecting hydraulic piling rig



The Comacchio CH 150 is the most highly mobile solution for short-term piling jobsites.

The agile and compact CH 150 allows for easy manoeuvrability even in restricted areas. It combines technological versatility and performance with an unbeatable ease of use. Simple to transport, the CH 150 requires zero setup time, ensuring immediate operational readiness.

The CH 150 allows for the use of the following drilling technologies:

	KP (Kelly Piles) CKP (Cased Kelly Piles)	KP - Uncased bored piles, excavated by dry method or stabilized by drilling fluid			
		CKP - Kelly Piles with casing installation by rotary drive			
		m.s.	i.s.	KP	
		Max. pile diameter	mm ft-in	750 / 1.000 ¹	2' 6" / 3' 3" ¹
		Max. pile depth	mm ft-in	27.000 ²	88' 7" ²
	CFA (Continuous Flight Auger)	CFA - Piles that are drilled uncased by the use of a continuous hollow auger stem			
		m.s.	i.s.	CFA	
		Max. pile diameter	mm ft-in	750	2' 6"
		Max. pile depth	mm ft-in	12.100 ³	39' 8" ³
		NOTE	3 - With 4.000 mm (13' 1" ft-in) auger extension		

Technical Data

UNDERCARRIAGE	
Type	Variable gauge
Track shoe width	450mm
Track shoe type	Triple grouser
Overall width (retracted side frames)	2,320mm
Overall width (extended side frames)	2,920mm
Overall length	3,076mm
Centre idler to centre sprocket	2,480mm

UPPER FRAME	
Width	2,235mm
Operator's cabin	ROPS – TOPS & FOPS-1 certified, 1,030mm wide
Control system type	CAN-BUS
User interface	5" touch screen
Tail swing radius	1,300mm

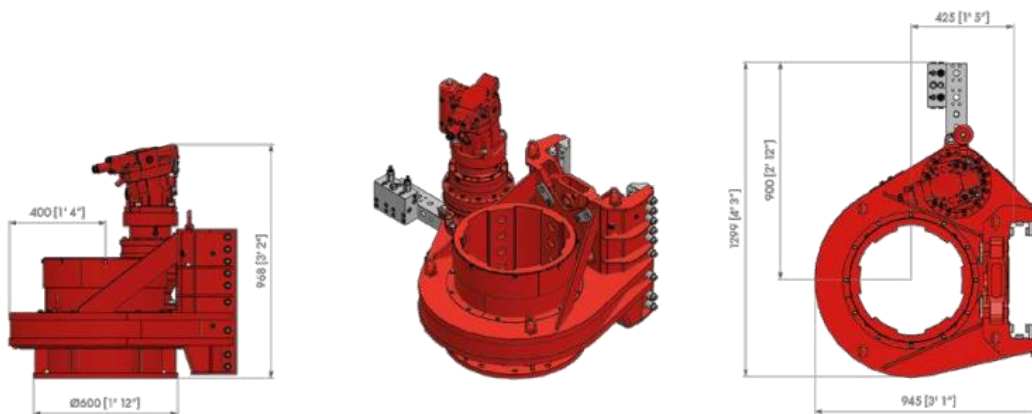
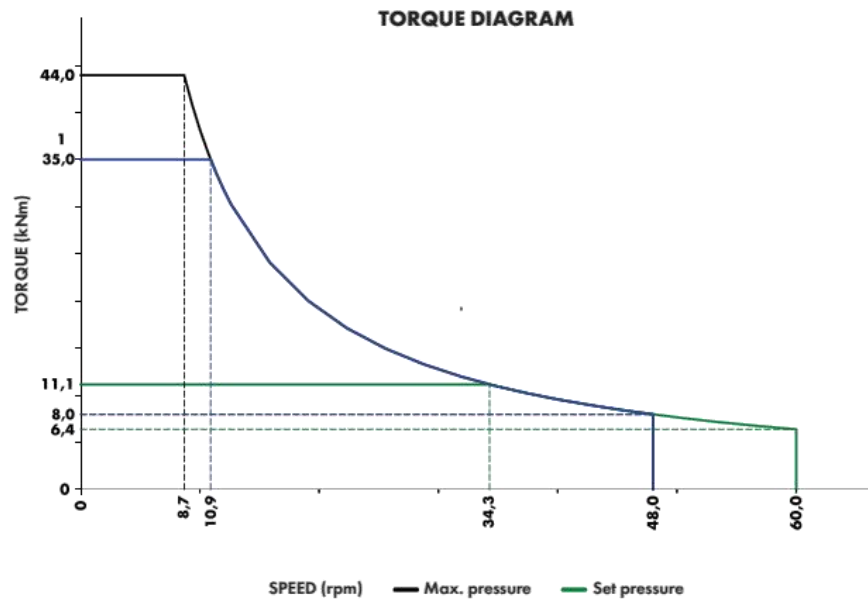
DIESEL ENGINE – High Tech Line	
Make & model	YANMAR 4TNV98CT
Emission certification	EU stage V
Aspiration	Turbocharged
Power rating (2,100 rpm)	54kW
Displacement	3,319cc
Fuel tank	105 litres

HYDRAULIC SYSTEM	
Main pumps flow	180l/min
Main pump working pressure	28MPa
Hydraulic oil tank capacity	90 litres

MAIN WINCH	
Type	Controlled descent
1 st layer line pull	65kN
1 st layer rope speed	64,000mm/min
Rope diameter	15mm
Rope layers	2
FEM classification	M5-L2-T5

SERVICE WINCH	
Type	Controlled descent
1 st layer line pull	27kN
1 st layer rope speed	55,000mm/min
Rope diameter	10mm
Rope layers	4

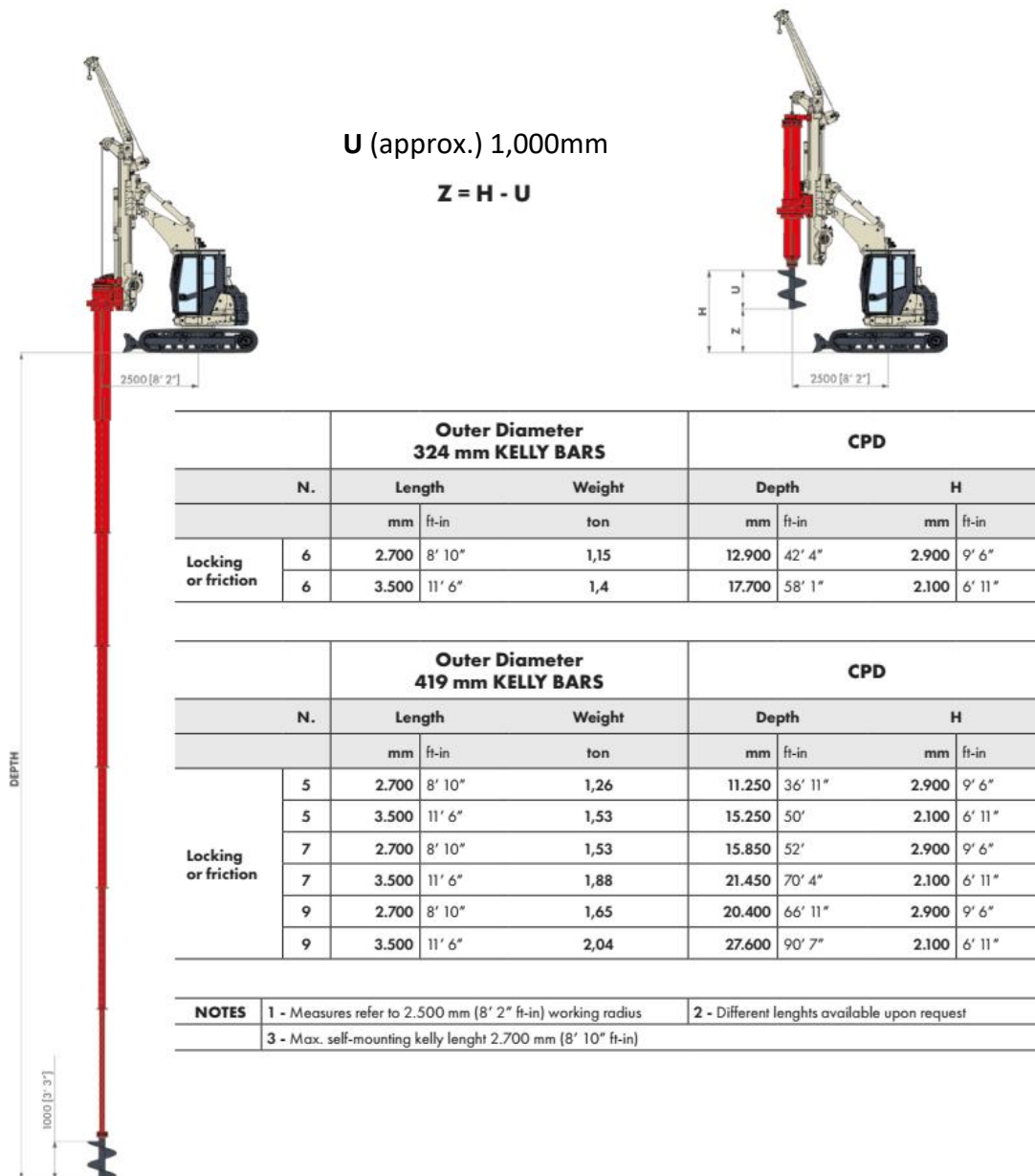
Rotary Head



ROTARY HEAD CR 4	
Nominal max. torque	44kNm at 35MPa
Max. torque	35kNm at 29MPa
Max. drilling speed	48rpm
Hydraulic power	40kW
Spin-off speed	60rpm
Weight	740kg

Innovative Kelly Bar System

KELLY BAR SIZES	
Outer diameter	324mm
Outer diameter	410mm
NOTE – different sizes upon request	



Options and Accessories

STANDARD EQUIPMENT
Hoist and lowering limit switches on main and service ropes
Mast inclination measurement on X & Y axes (digital and analog display)
Depth measuring device on main winch
Rpm measuring device on rotary
Crowd pressure setting
Heating and air conditioning system
Engine diagnostic panel
Transport securing lugs on crawler unit
Work lights
Diagnostic panel for hydraulic, electrical and electronic functions
Rollover, fring and top cabin protective grate (FOPS-1 certified)
Radio CD player
Phone charger
CCS Comacchio Controlling System – 5" touch screen
Spinoff and shaker tool dump systems
Rotary auto speed management & interactive multiple gear
Tool box



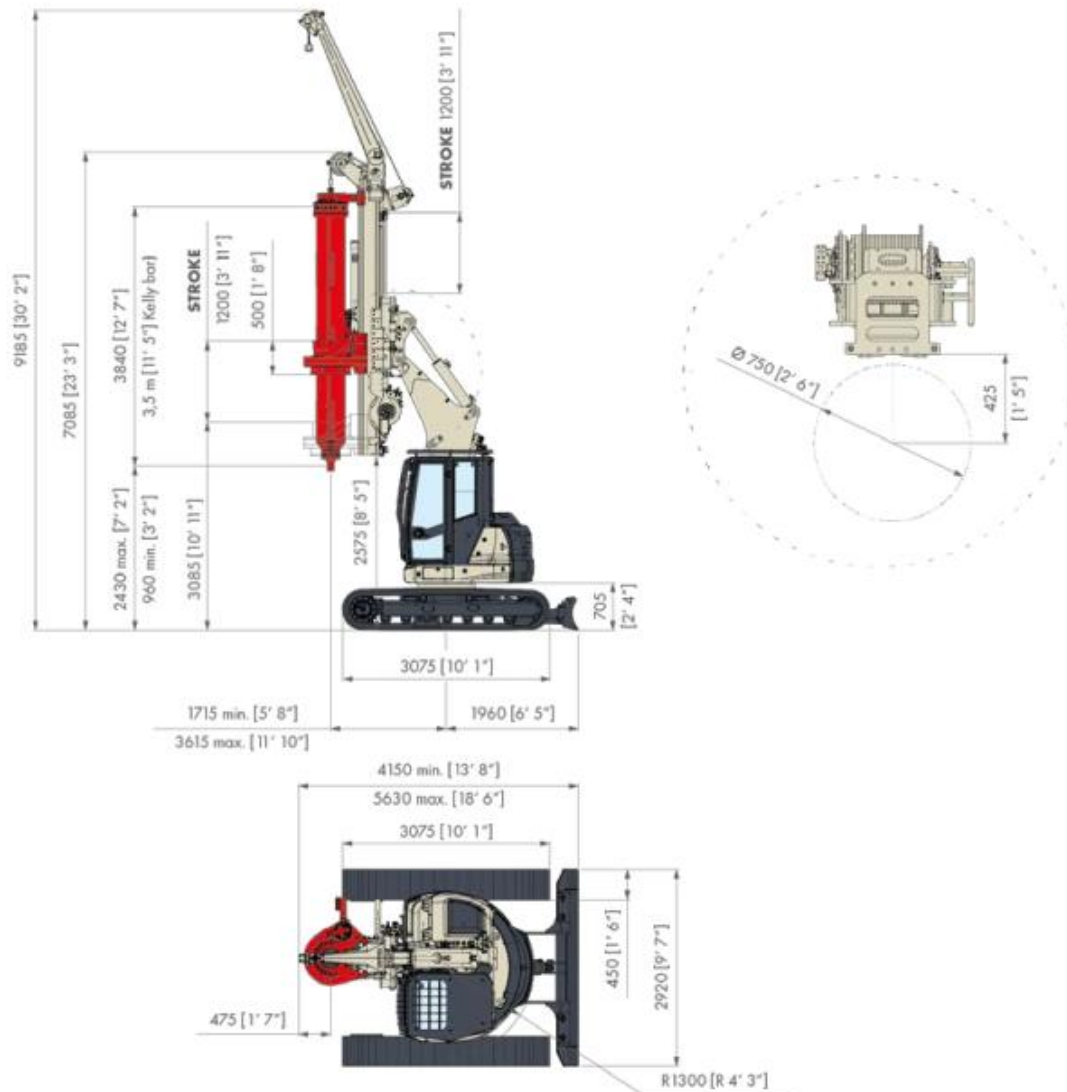
OPTIONAL EQUIPMENT
Biodegradable oil
Swivel for auxiliary rope
CFA cleaner (star or hydraulic type)
Flange for bucket opening
Flange for casing driving
Washing kit
ComNect System
Data logger

CE CONFORMITY KIT
Main and aux winch load cells
CFA cleaner
Rubber strip guards on auger guide



CH 150 - CPD

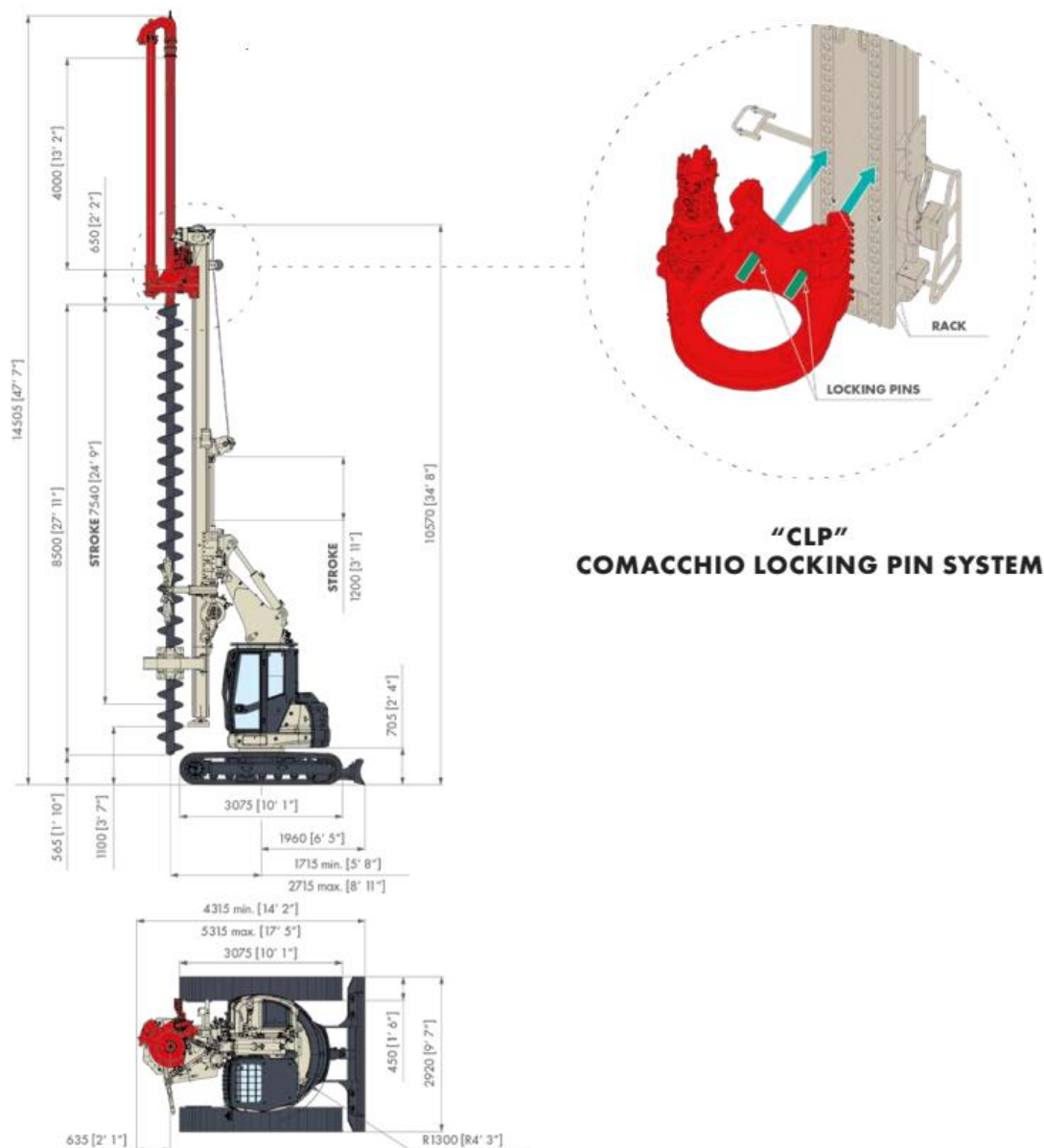
Overall Dimensions



CPD (Cylinder Pull Down)	
Stroke	1,200mm
Max. pull up force	60kN
Max. pull down force	60kN
Max. pile diameter	750mm / 1,000mm*
Operating weight w/o tool	15 tonne**
* Tool below mast	
** c/w 7 x 2,700mm long Kelly bar	

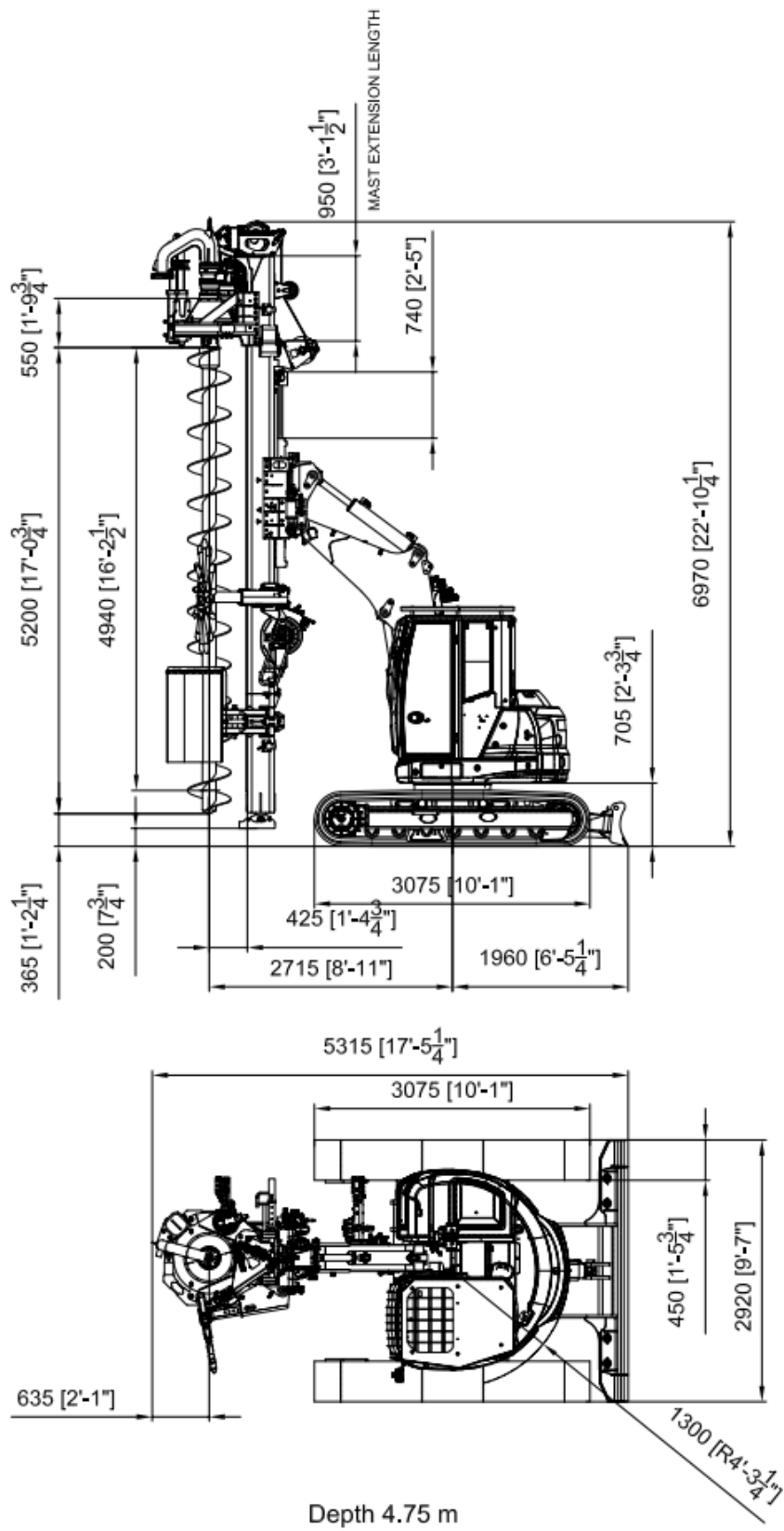
CH 150 - CFA

Overall Dimensions

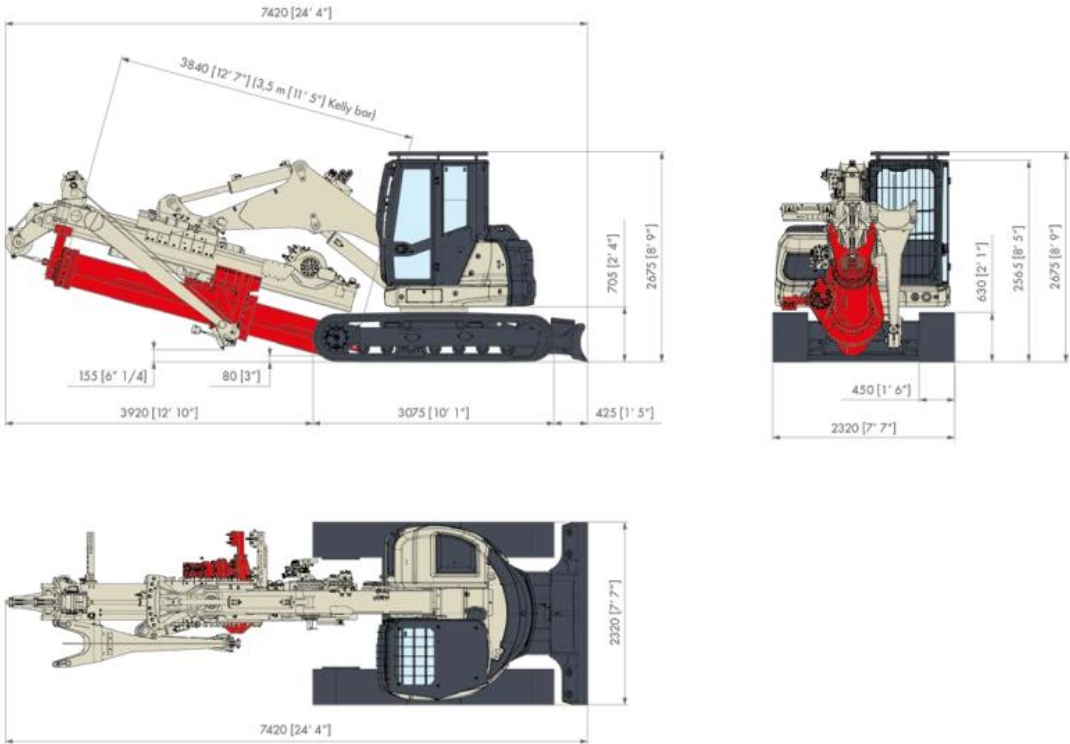


CFA (Continuous Flight Auger)	
Max. pile diameter	750mm
Max. length of augers	8,500mm
Max. length of auger extension	4,000mm
Max. pile depth without/with auger extension	8,100mm / 12,100mm*
Extraction force	170kN
Crowd force on auger (optional with CLP System)	60kN
* With 4,000mm auger extension & star cleaner	

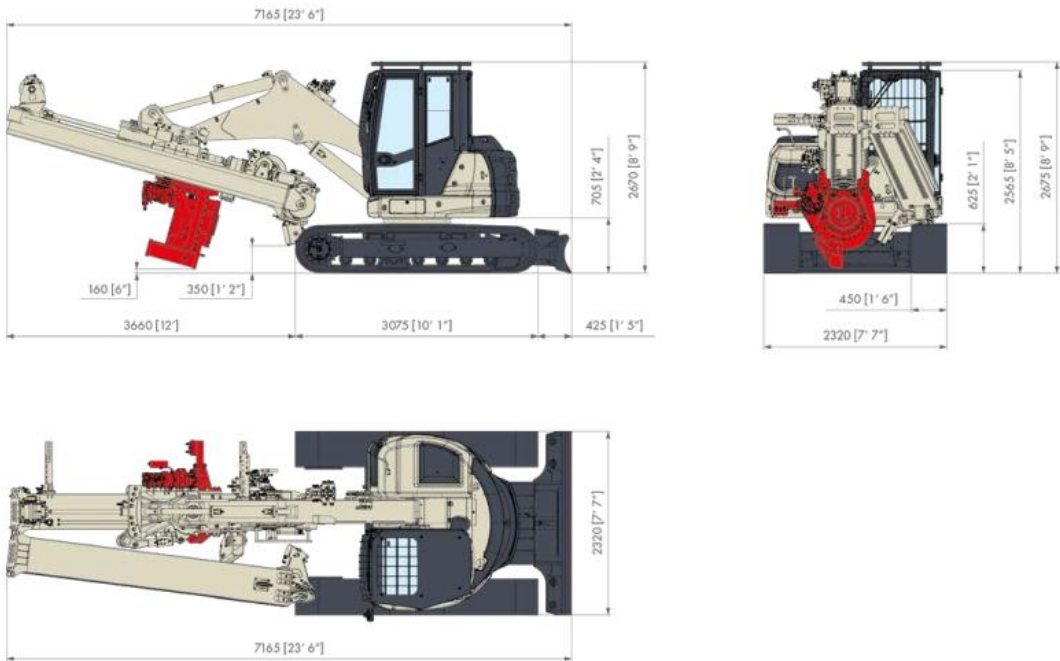
Overall Dimensions – low headroom



Transport Dimensions



CPD		
Transport weight	15 tonne	c/w 7 x 2,500mm long Kelly bar



CFA		
Transport weight	14 tonne	Without augers, auger extension, auger cleaner, auger guide