

CH 150

Self-Erecting Hydraulic Piling Rig



COMACCHIO

DRILLING HI-TECH

CH 150

MULTIPURPOSE PILING RIG

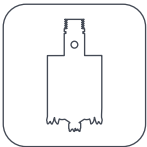
The winning solution for job sites of short duration that require frequent operations of transport and setting up.

Truly self-erecting. The machine is self-erecting, and can be transported in one piece/fully assembled with the rotary head and kelly bar on. Once on site, the rig is easily off loaded from the truck and set up without the need for crane service.

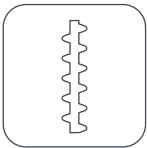
Range of drilling technologies. The CH 150 allows for the use of the following drilling technologies:

BP (Bored Piles) uncased bored piles, excavated by dry method or stabilized by drilling fluid;
CBP (Cased Bored Piles) bored piles with casing installation by rotary drive;
CFA (Continuous Flight Auger) piles that are drilled by the use of a continuous hollow auger stem.

Performance



	m.s.	i.s.	BP (Bored Piles)		CBP (Cased Bored Piles)	
Max. pile diameter	mm	ft-in	750 / 1.000 ⁽¹⁾	2' 6" / 3' 3" ⁽¹⁾	750	2' 6"
Max. pile depth	m	ft-in	27 ⁽²⁾	88' 7" ⁽²⁾	-	-
(1) tool below mast						
(2) using 9-elements locking kelly bar						



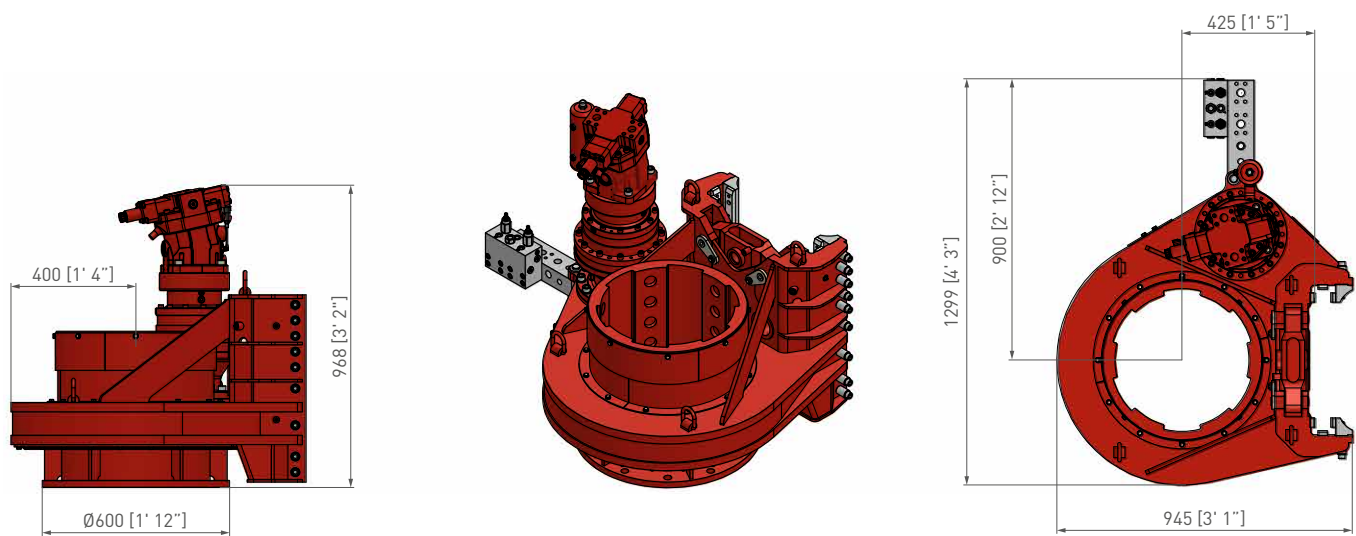
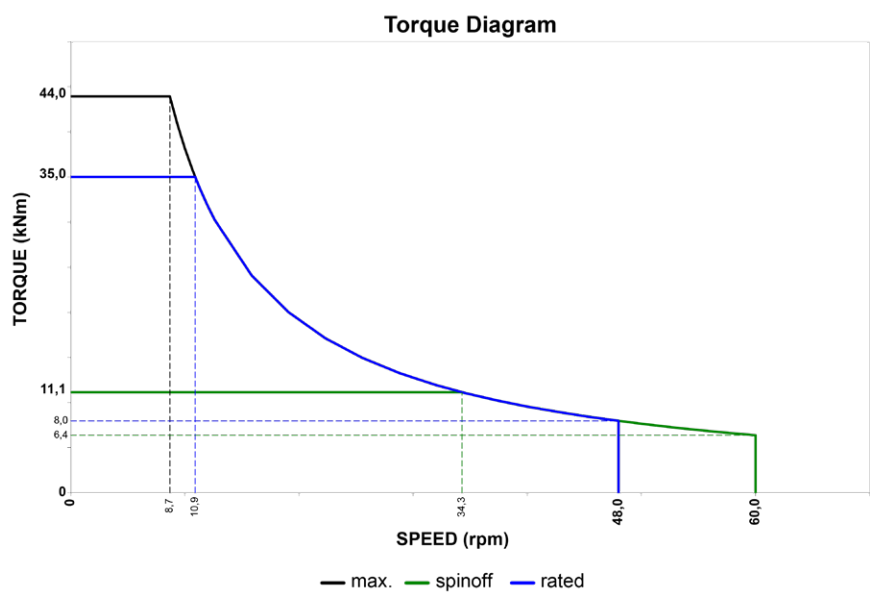
	m.s.	i.s.	CFA (Continuous Flight Auger)	
Max. pile diameter	mm	ft-in	750	2' 6"
Max. pile depth	m	ft-in	12,1 ⁽³⁾	39' 8"
(3) with 4,0 (13' 1") m auger extension				



Undercarriage	m.s.	i.s.		
Type		-	Variable gauge	
Track shoe width	mm	ft-in	450	1' 5" 11/16
Track shoe type		-	Triple grouser	
Overall width (retracted side frames)	mm	ft-in	2.320	7' 7" 5/16
Overall width (extended side frames)	mm	ft-in	2.920	9' 6" 15/16
Overall length	mm	ft-in	3.076	14' 1"
Centre idler to centre sprocket	mm	ft-in	2.480	8' 1" 5/8
Upperframe				
Width	mm	ft-in	2.235	7' 4"
Operators' cabin		-	ROPS - TOPS & FOPS-1 certified, 1030 mm (3' 4") wide	
Control system type		-	CAN-BUS	
User interface		-	5" Touch Screen	
Tail swing radius	mm	ft-in	1.300	4' 3" 3/16
Diesel Engine	High Tech Line			
Make and model		-	YANMAR 4TNV98CT	
Emission certification		-	EU stage V / US EPA Tier 4f	
Aspiration		-	Turbocharged	
Power rating (2.100 rpm)	kW	HP	54	73
Displacement	cc	in³	3.319	203
Fuel tank	l	gal	105	28
Hydraulic System				
Main pumps flow	l/min	gal/min	180	48
Main pump working pressure	MPa	Psi	28	4,061
Hydraulic oil tank capacity	l	gal	90	24
Main Winch				
Type		-	Controlled descent	
1 st layer line pull	kN	lbs	65	14,612
1 st layer rope speed	m/min	ft/min	64	210'
Rope diameter	mm	in	15	9/16"
Rope layers		-	2	
FEM classification		-	M5-L2-T5	
Service Winch				
Type		-	Controlled descent	
1 st layer line pull	kN	lbs	27	6,069
1 st layer rope speed	m/min	ft/min	55	180'
Rope diameter	mm	in	10	3/8"
Rope layers		-	4	

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Rotary Head



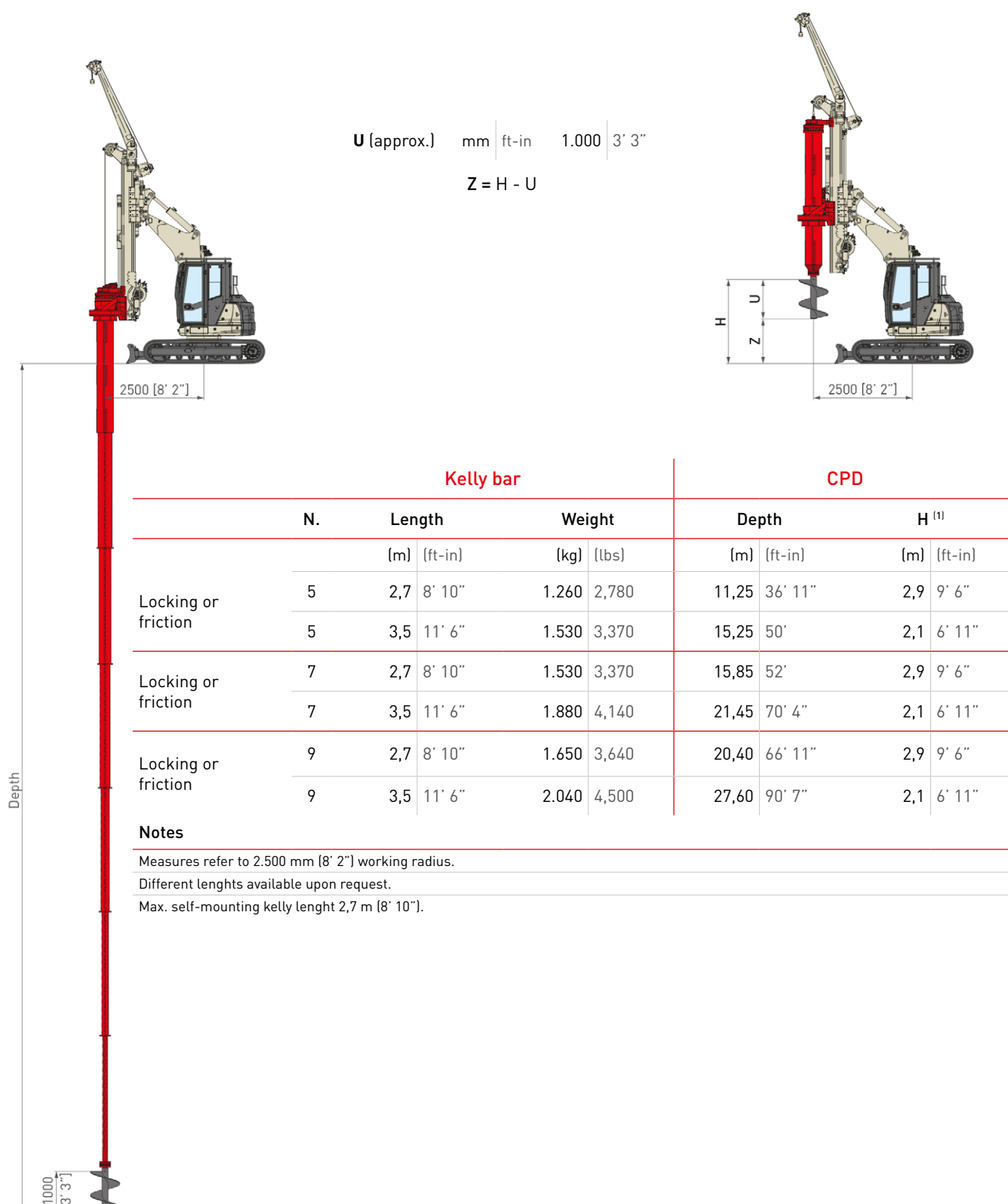
Rotary Head	m.s.	i.s.	CR 4	
Nominal max torque	kNm	lbf-ft	44 at 35 MPa	32,450 at 5,076 psi
Max. torque	kNm	lbf-ft	35 at 28 MPa	25,800 at 4,060 psi
Max. drilling speed	rpm		48	
Hydraulic power	kW	HP	40	54
Spin-off speed	rpm		60	

Comacchio Innovative Kelly bar system

Kelly bar sizes	m.s.	i.s.	Outer diameter	
	mm	in	419	1' 4" 1/2

Note

Different sizes upon request

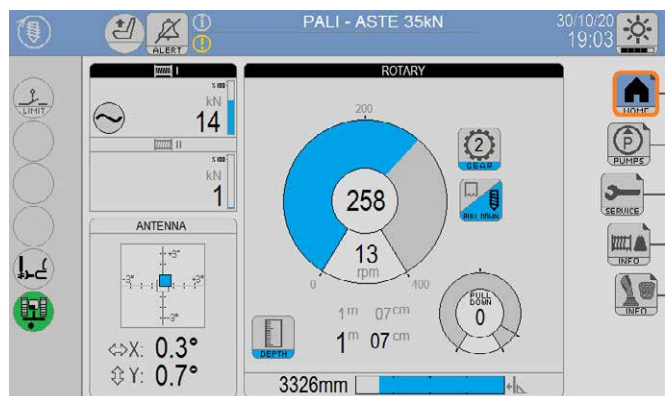


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Options and Accessories

Standard equipment

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



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Optional equipment

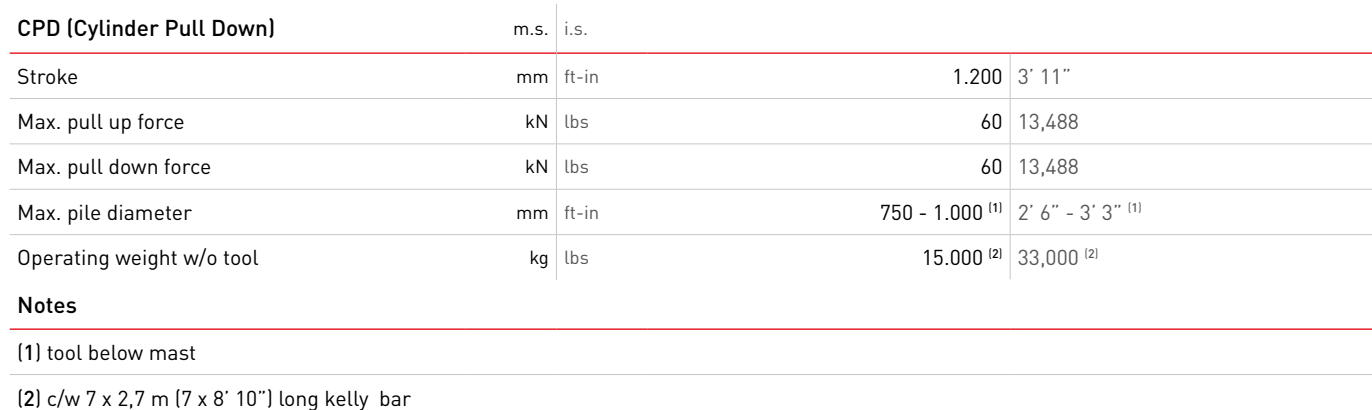
Biodegradable oil	Flange for casing driving
Swivel for auxiliary rope	Washing kit
CFA cleaner (star or hydraulic type)	ComNect system
Flange for bucket opening	Data logger

CE conformity kit

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

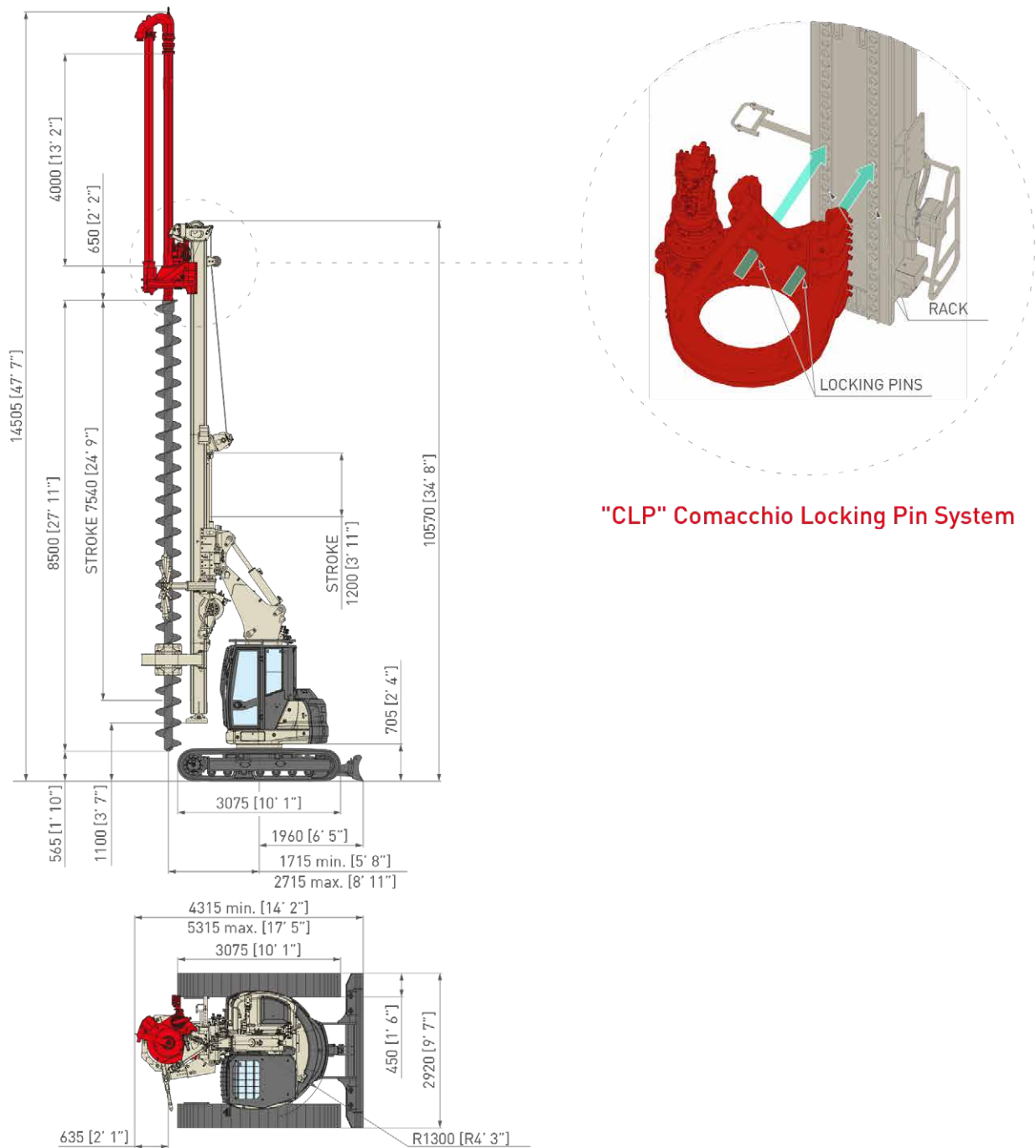


Overall dimensions



CH 150 - CFA

Overall dimensions



CFA

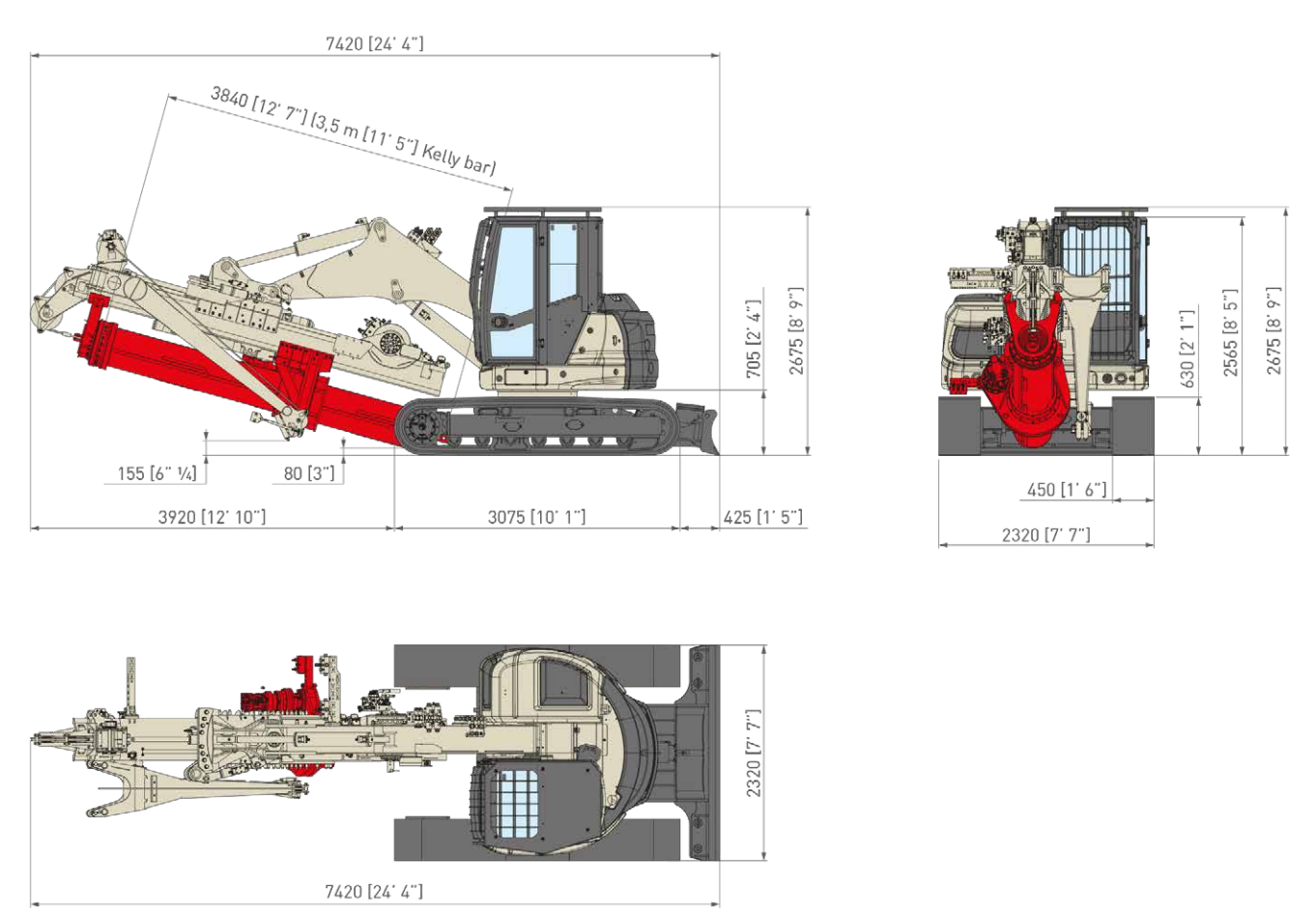
	m.s.	i.s.		
Max. pile diameter	mm	ft-in	750	2' 6"
Max. length of augers	m	ft-in	8,5	27' 11"
Max. length of auger extension	m	ft-in	4,0	13' 1"
Max. pile depth without/with auger extension	m	ft-in	8,1 / 12,1 ⁽¹⁾	26' 7" / 39' 8"
Extraction force	kN	lbs	170	37,217
Crowd force on auger (optional with "CLP System")	kN	lbs	60	13,500

Note

(1) with 4,0 m (13' 1") auger extension & star cleaner

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Transport dimensions



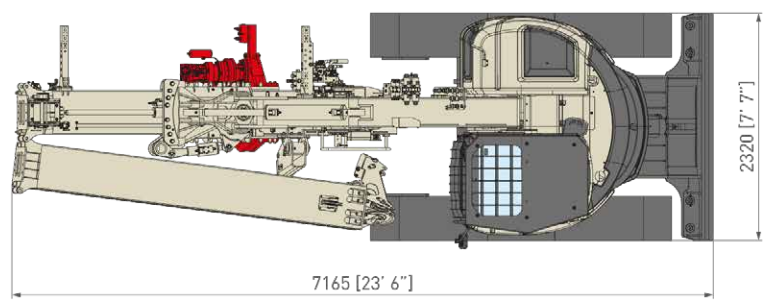
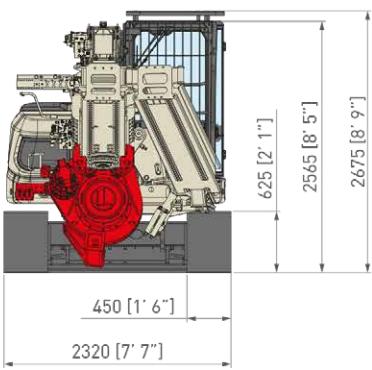
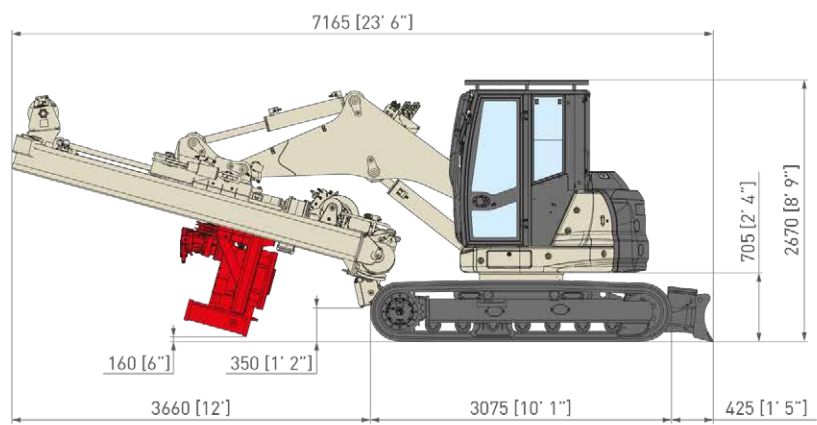
	m.s.	i.s.	CPD	
Transport weight ⁽¹⁾	kg	lbs	15,000	33,000

Note

(1) c/w 7 x 2,5 m (7 x 6' 6") long Kelly bar

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Transport dimensions



	m.s.	i.s.	CFA	
Transport weight ⁽²⁾	kg	lbs	14,000	30,000

Note

(2) without augers, auger extension, auger cleaner, auger guide



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