A 215

hydraulic drill rig

1974

IMT is founded by Mr. Giulio Accorroni.

1975

The first innovative hydraulic drill rig (model 75 type G) is patented. Capable of drilling up to a depth of 30 meters (best market performance at the time)

1978

The Accorroni family buys 100% of IMT shares and Giulio Accorroni is appointed IMT's sole Director.

1984

Andrea Accorroni takes over IMT management following the death of his older brother, (Fabio Accorroni , Giulio's first son)

1985

The company introduces the 805 model, which soon becomes very successful and used for big construction projects, such as the Sagrada Familia in Barcelona, Spain.

1992

New innovative models are launched (i.e., sound-proof machine and model AF12, assembled on a crawler base completely produced by IMT).

1993

Beginning of co-operation with Caterpillar (CAT): IMT starts assembling drill rigs on CAT bases (IMT is the first drill rig manufacturer to do this; other manufacturers will soon follow the example); IMT starts a distribution agreement in North America and Canada for its drill rigs mounted on CAT bases through the CAT dealer in Miami, Kelly Tractor Company In the same period, the technology for driven piles used in the U.S. until then starts moving towards the European piling system and the drilling equipment demand in the US market for all European manufacturers starts growing.

1997

IMT produces the AF50, the biggest drill rig in the world at the time, and sells no. 7 units to the Japanese multi-national company Sumitomo. Giulio and Andrea Accorroni are invited to Osaka for a lecture on the technical characteristics of the rig. The lecture is attended by the owners/directors of the biggest Japanese construction companies.

2005

IMT patents an innovative drilling system related to highly seismic grounds, the "Multi Rotary driven Soil Mixing Pile".

2006-2008

IMT increases its production range and doubles its sales. Andrea Accorroni, current President of IMT INTERNATIONAL S.p.A

2009-2010

IMT reacts to the global economic crisis by launching 2 new product lines in the market with traditional technology (the "AG" series, assembled on HITACHI base, and the "A" series, mounted on IMT base), and completes the first prototype of drill rig for seismic grounds, the AF460 model, which uses the patented "Multi Rotary driven Soil Mixing Pile" system. The prototype is presented at BAUMA 2010, the most important international exhibition for construction machinery. The complete production range is developed thereafter.

2011

IMT AGM appoints a new Board of Directors.

2011/2013

IMT develops the prototypes for the full range of the AF series drilling rigs with Tier 4 engines, as well as the newly-born A125 and A150 models, mounted on IMT base and powered by CAT.

2014/2015

IMT upgrades the A-series machines with new engines and design, and develops its own particular water well technology system.

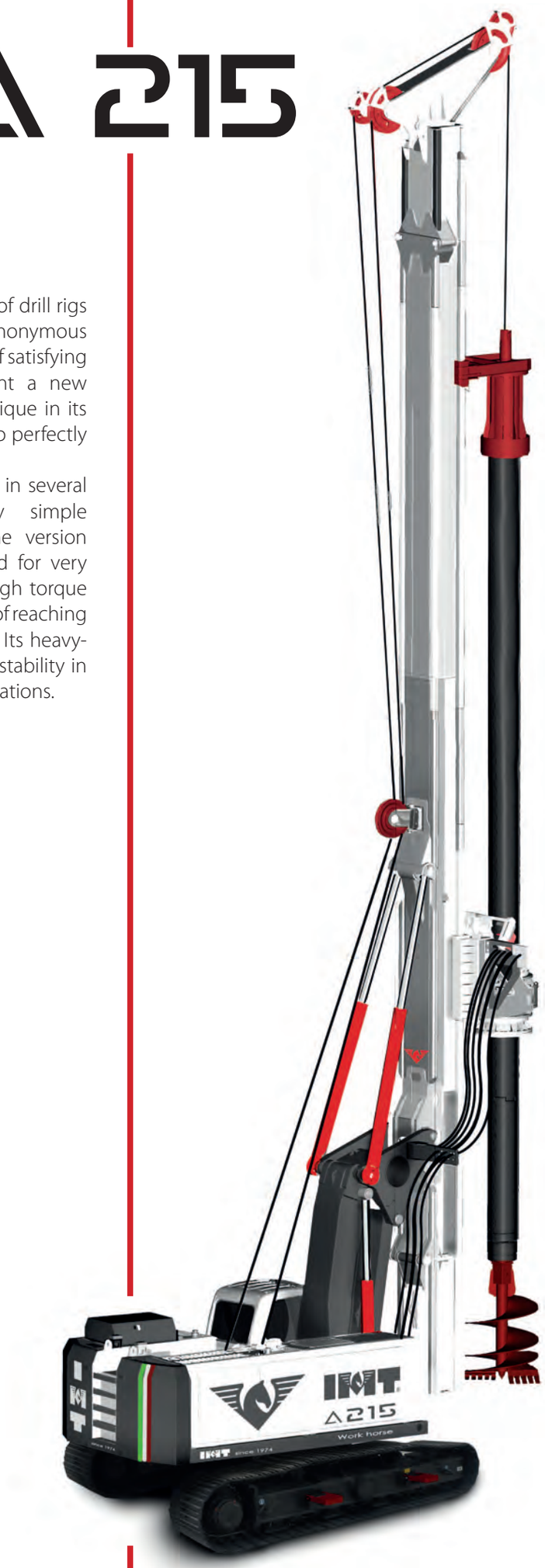
2016/2017

The brand new range of A-series rigs with Tier 3 engines, completely designed and developed by IMT, and lauched into the market, as well as the AF-series machines, mounted on CAT bases with Tier 4 Final engines

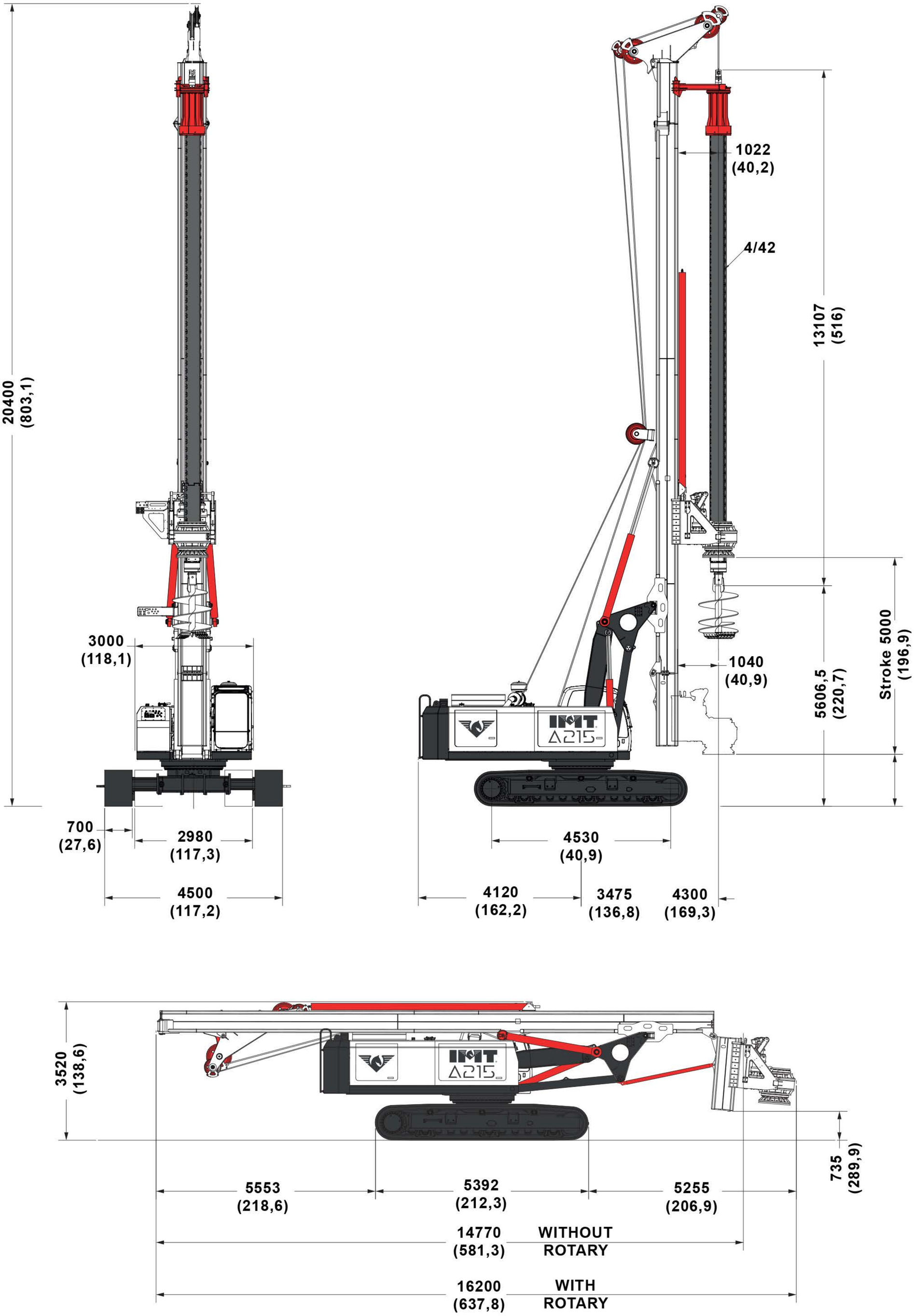
Andrea Accorroni

A 215

IMT, a global leader in the manufacture of drill rigs and a brand which has always been synonymous with quality and reliability in the pursuit of satisfying market demand, is pleased to present a new series of A drill rigs. This new line is unique in its simplicity and flexibility of use, while also perfectly maintaining sturdiness and productivity.
The A215 drill rig is suitable for the use in several different configurations, with very simple procedures for the passage from one version to another. The machine was designed for very arduous applications as, thanks to its high torque and high-performing winch, it is capable of reaching great depths, also with great diameters. Its heavy-duty undercarriage guarantees optimal stability in various working conditions and configurations.



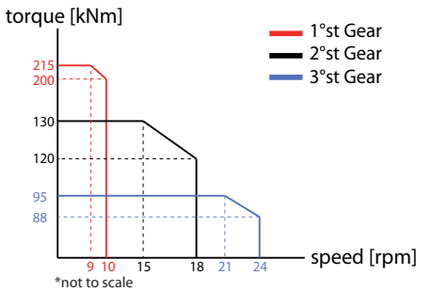
Crowd cylinder version



Technical specifications

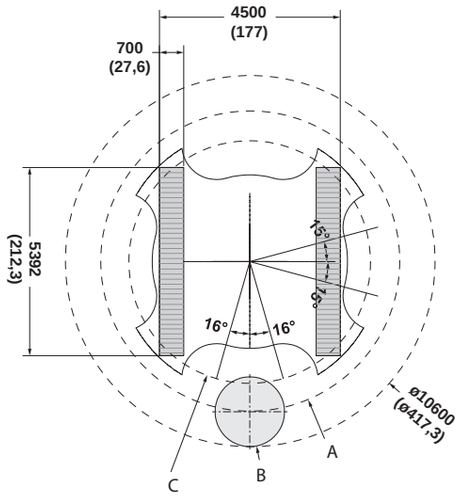
A215 Crowd Cylinder

Rotary		
Installed torque	kNm	215
	lbf ft	158575
Min. Working speed	rpm	13
Max. Working speed	rpm	28
Min. Discharge speed	rpm	67
Max. Discharge speed	rpm	104



Winches		
Main winch pull force	kN	200
	lbf	
Main winch speed	m/min	60
	ft/min	197
Main winch cable diameter	mm	26
	in	/
Auxiliary winch pull force	kN	80
	lbf	17985
Auxiliary winch speed	m/min	50
	ft/min	164
Auxiliary winch cable diameter	mm	20
	in	/
Crowd System		
Kelly crowd push	kN	180
	lbf	40470
Kelly crowd pull	kN	200
	lbf	44965
Stroke (mm)	mm	5000
	in	197
Base		**IMT**
Undercarriage length / widening range / shoe	mm	5392 / 2980 - 4500 / 700
	in	212 / 117 - 177 / 27,5
Engine type		Cummins QSL9 Tier III / Tier IV
		254 KW (340 HP) @1800 rpm
Oil tank capacity	l	600
Fuel tank capacity	l	530
Mast		
Mast raking forward	degree	4°
Mast side raking	degree	±5°
Mast raking backwards	degree	15°
Pile max diameter	mm	2000
	in	79
Kelly bar		
Standard		4/42
Options available		4/46 - 4/48 - 5/60
Operating Weight w/standard kelly bar	t (metric)	60
	lbs	132280

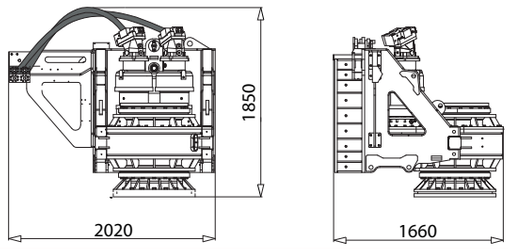
Working area A215 crowd cylinder



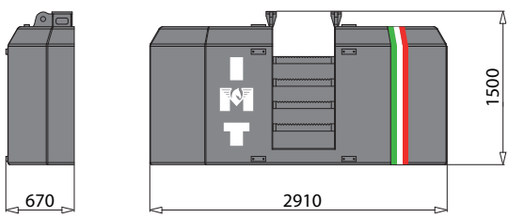
A	MAX WORKING RADIUS 4300 (R 169,3)
B	MAX TOOL DIAMETER 2000 (ø 78,7)
C	MIN WORKING RADIUS 3475 (R 1368)

Removable parts for transport phase

Rotary Weight = 4 ton



Counterweight Weight = 8 ton



Equipment

- STANDARD EQUIPMENT -	- OPTIONAL EQUIPMENT-
Air conditioner	Biodegradable oil
Neutral lever (lock out) for all control	Rear camera
Guard cab front	Crowd winch kit
Guard cat top	CFA kit
Winches spot light	Grab kit
Top cabin working lights	Vibro displacement kit
Main and auxiliary load sensing circuit	Cardanic universal joint kit
Free flow during drilling phase	Casing oscillator kit
Automatic bottom hole stop	Removable racks rotary
Depth measuring device on main winch	Every kind of Kelly bar
Mast inclination mesurement	
Kelly bar intelocking 4/42 (42m depth)	

Kelly bar standard version

3 PARTS

4 PARTS

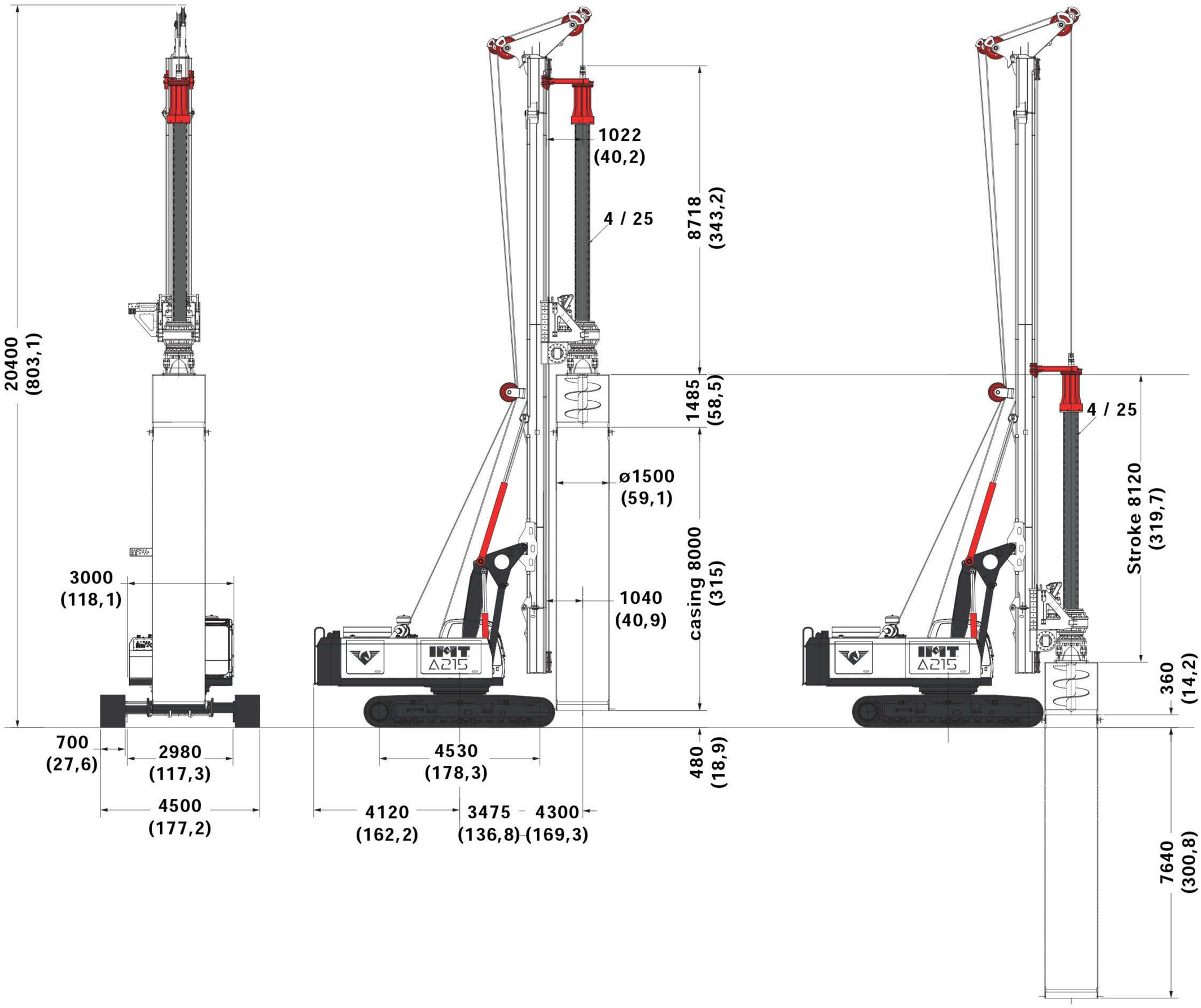
5 PARTS

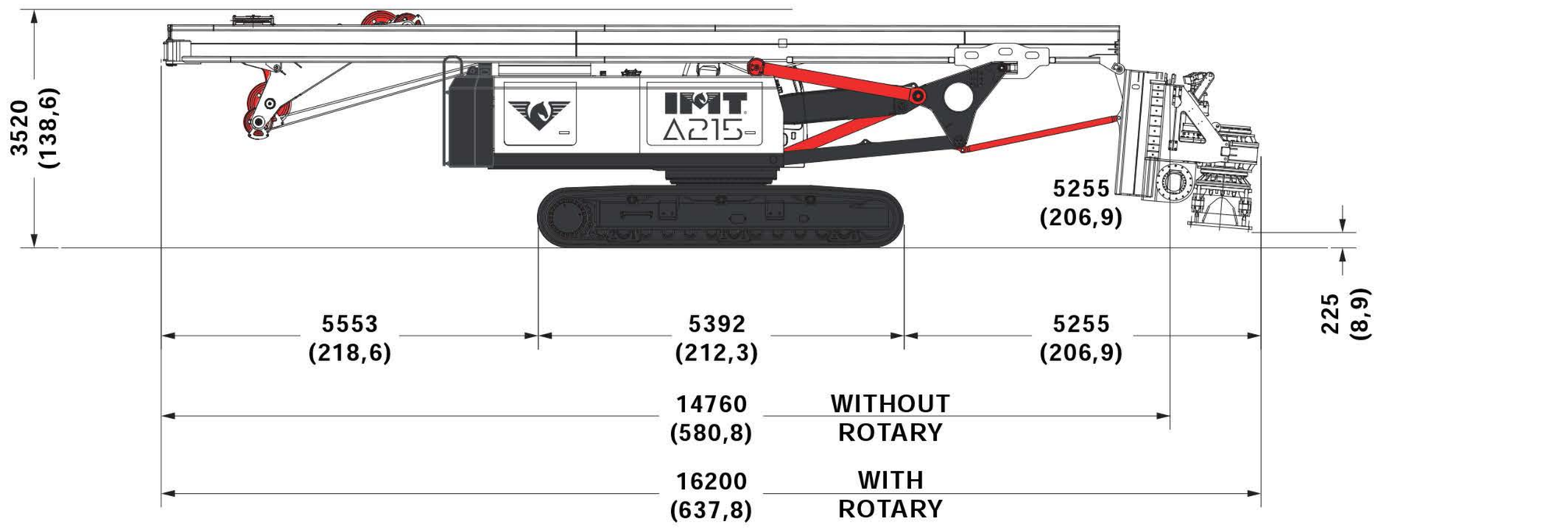
Kelly bar	A (m)	W (kg)	C (m)	B (m)
3 / 30 / 406	13,0	7000	31,3	5,70
3 / 38 / 406	15,4	8050	38,5	2,80
4 / 25 / 406	8,9	5350	26,1	9,95
4 / 35 / 406	11,5	6600	36,0	7,20
4 / 42 / 406	13,3	7650	43,1	5,60
4 / 46 / 406	14,1	8100	46,3	4,60
4 / 48 / 406	14,9	8500	50,0	3,80
4 / 50 / 406	15,5	8600	51,9	3,20
*4 / 54 / 406	16,6	10100	54,9	2,10
5 / 60 / 406	14,9	8100	61,8	3,80
* Only for crowd cylinder version				

D	1500 mm	200 x 200 mm
Standard square joint other dimension available		

Δ 215 - Hydraulic Drill Rig

Crowd winch version

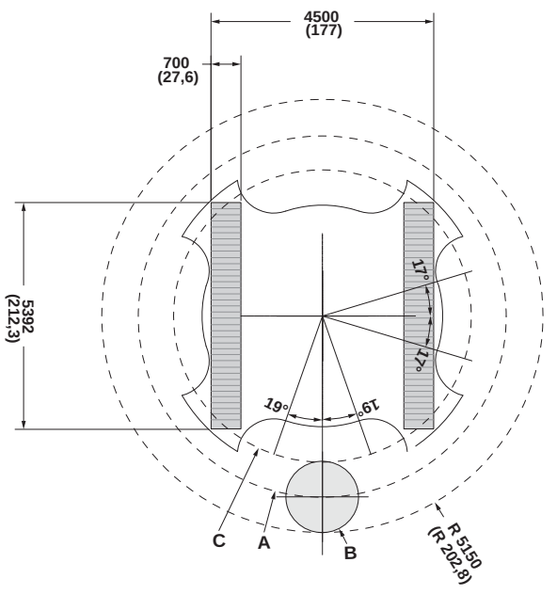




Technical specifications

Winch Crowd System		
Kelly crowd push	kN	260
	lbf	58455
Kelly crowd pull	kN	260
	lbf	58455
Max stroke (mm)	mm	11000
	in	433
Casing length / max diameter	mm	8000 / Ø1700
	in	315 / Ø67
Pile max diameter	mm	1700
	in	79
Operating Weight w/standard kelly bar	t (metric)	60
	lbs	132280

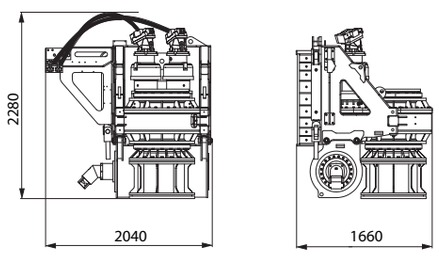
Working area crowd winch



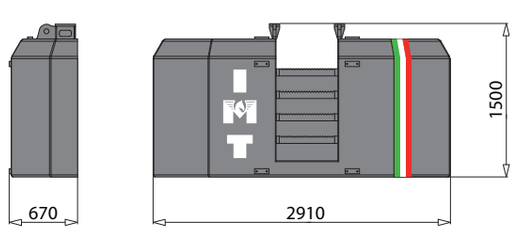
A	MAX WORKING RADIUS 4300 (R 169,9)
B	MAX TOOL DIAMETER 1700 (ø 66,9)
C	MIN WORKING RADIUS 6950 (ø 273,6)

Removable parts for transport phase

Rotary Weight = 6,1 ton

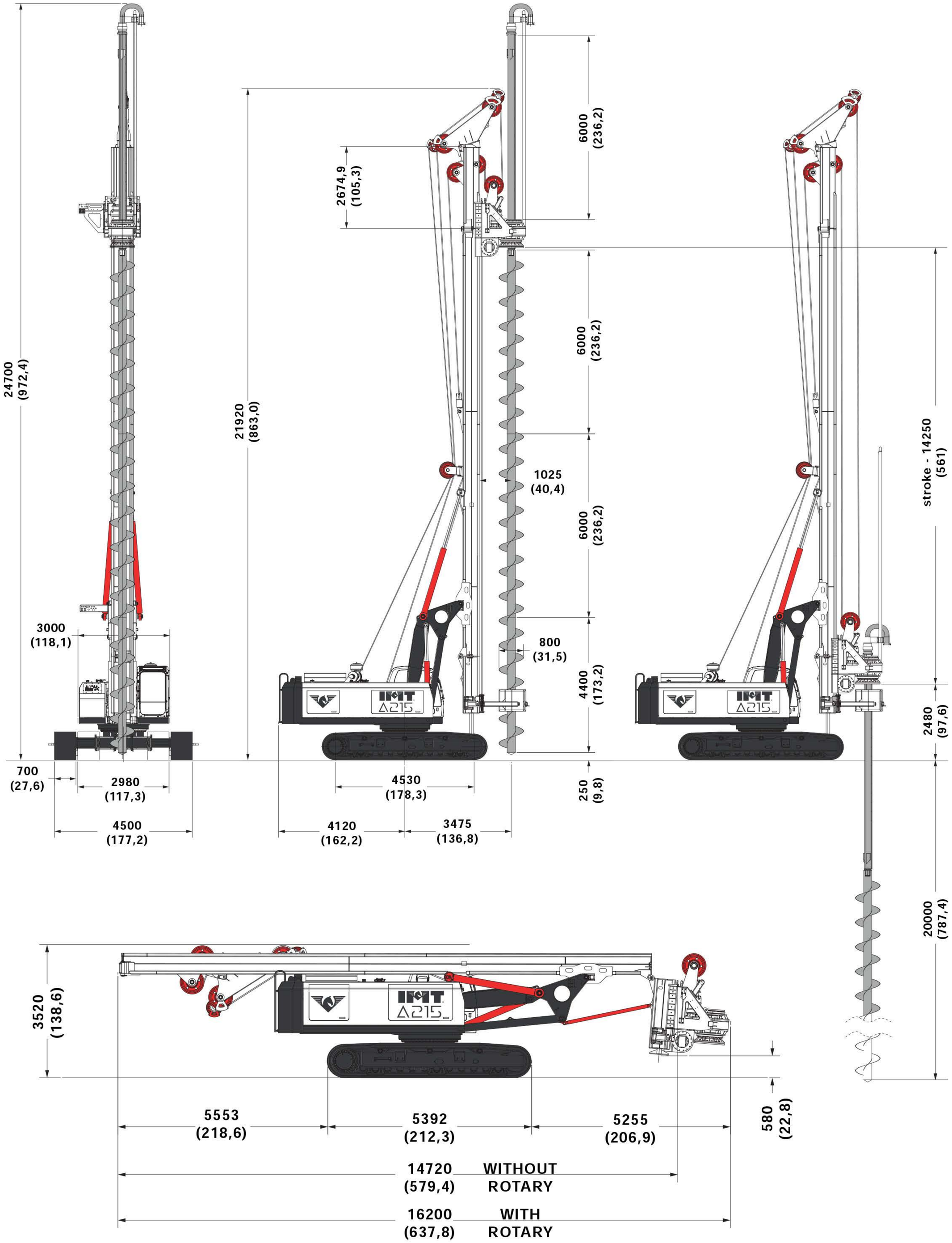


Counterweight Weight = 8 ton



A 215 - Hydraulic Drill Rig

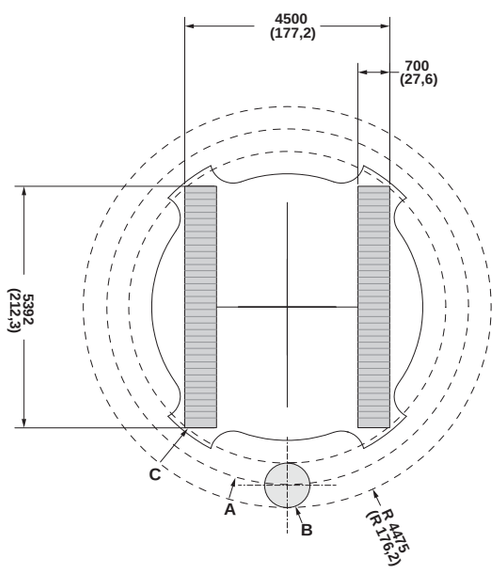
CFA version



Technical specifications

Crowd System		
Pushing force	kN	260
	lbf	58455
Pulling force	kN	400
	lbf	89925
Max push / pull speed	m / min	20 / 30
	ft / min	66 / 99
Rotary stroke	mm	14250
	in	3203530
Drilling depth maximum w/o auger extension	m	14
	ft	45,92
Drilling depth maximum w auger extensions	m	20
	ft	65,6
Pile max diameter	mm	1000
	in	40
Operating Weight without auger	t (metric)	55
	lbs	121260

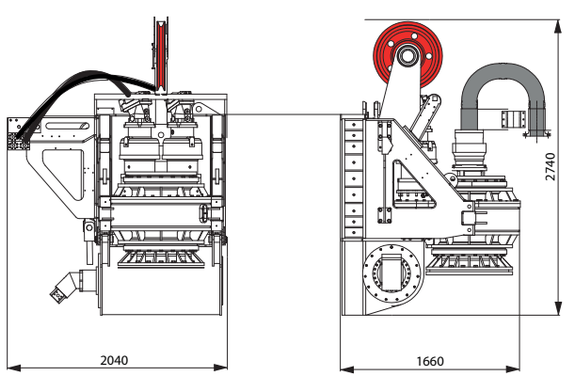
Working area CFA



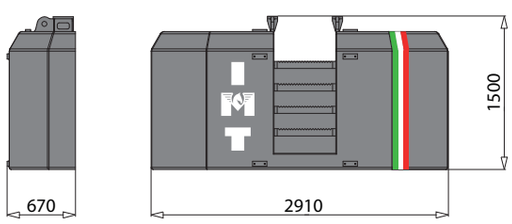
A	MAX WORKING RADIUS 3975 (R 156,5)
B	MAX TOOL DIAMETER 1000 (ø 39,4)
C	MIN WORKING RADIUS 3475 (R 136,8)

Removable parts for transport phase

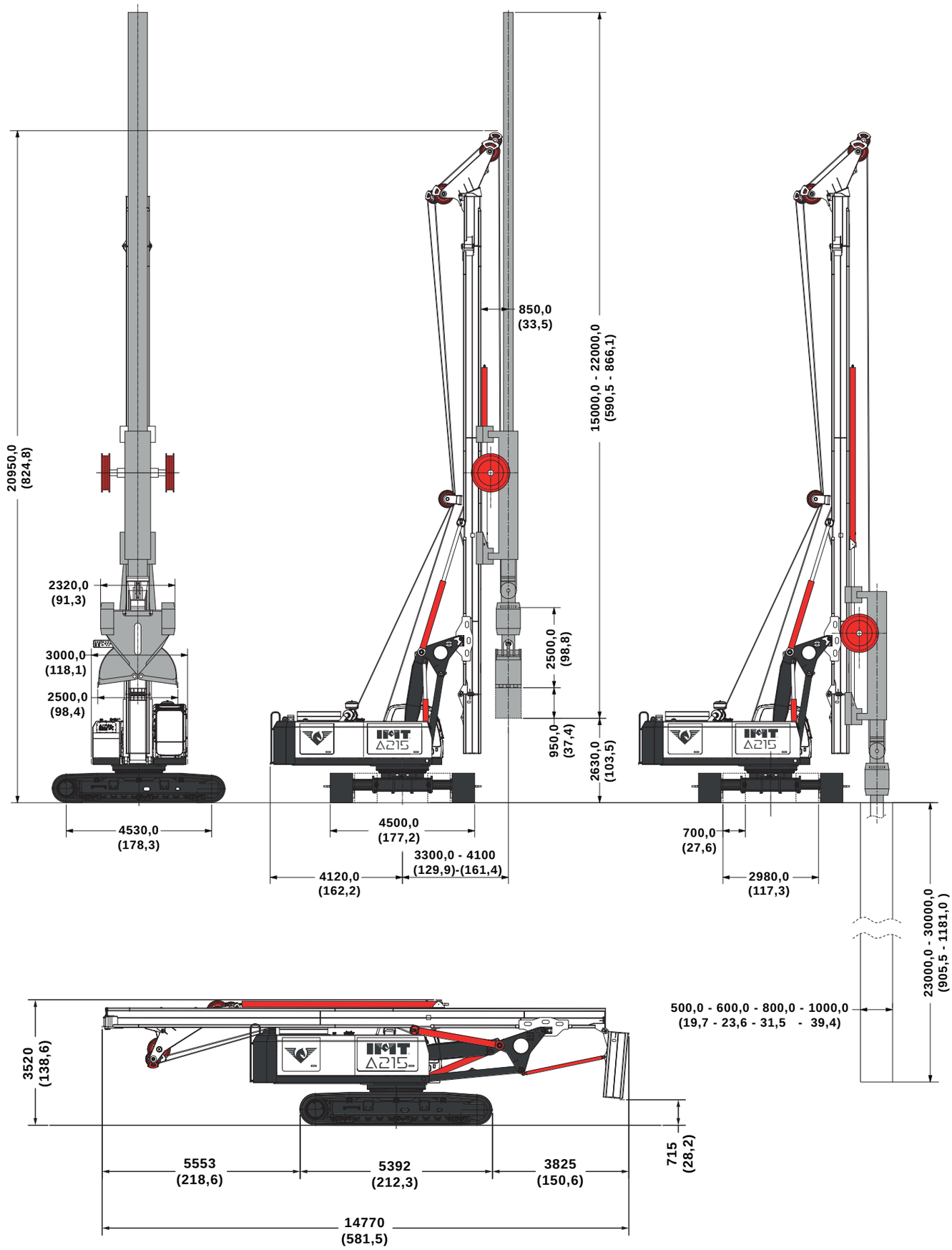
Rotary Weight = 7,1 ton



Counterweight Weight = 8 ton



Grab version

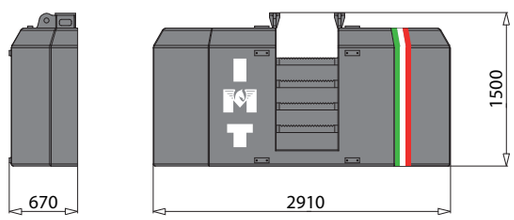


Technical specifications

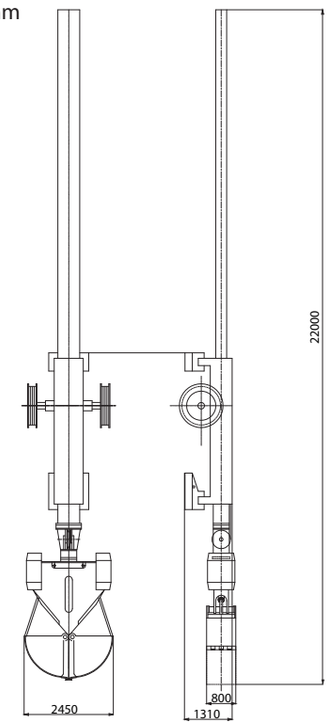
Crowd System		
Excavation width	mm	500-600-800-1000
Jaws opening	mm	2500
Excavation depth	m	23/30
Weight of grab	Kg	4000 / 4300 / 4900 / 5300
Continuous operating pressure	bar	320
Grab capacity	m^3	/
Max closing force	kN	1630
Grab rotation	degree(°)	+45° / - 45°
Winches		
Main winch pull force	kN	400
	lbf	89925
Main winch speed	m/min	30
	ft/min	98
Operating Weight w/out grab	t (metric)	55
	lbs	121260

Removable parts for transport phase

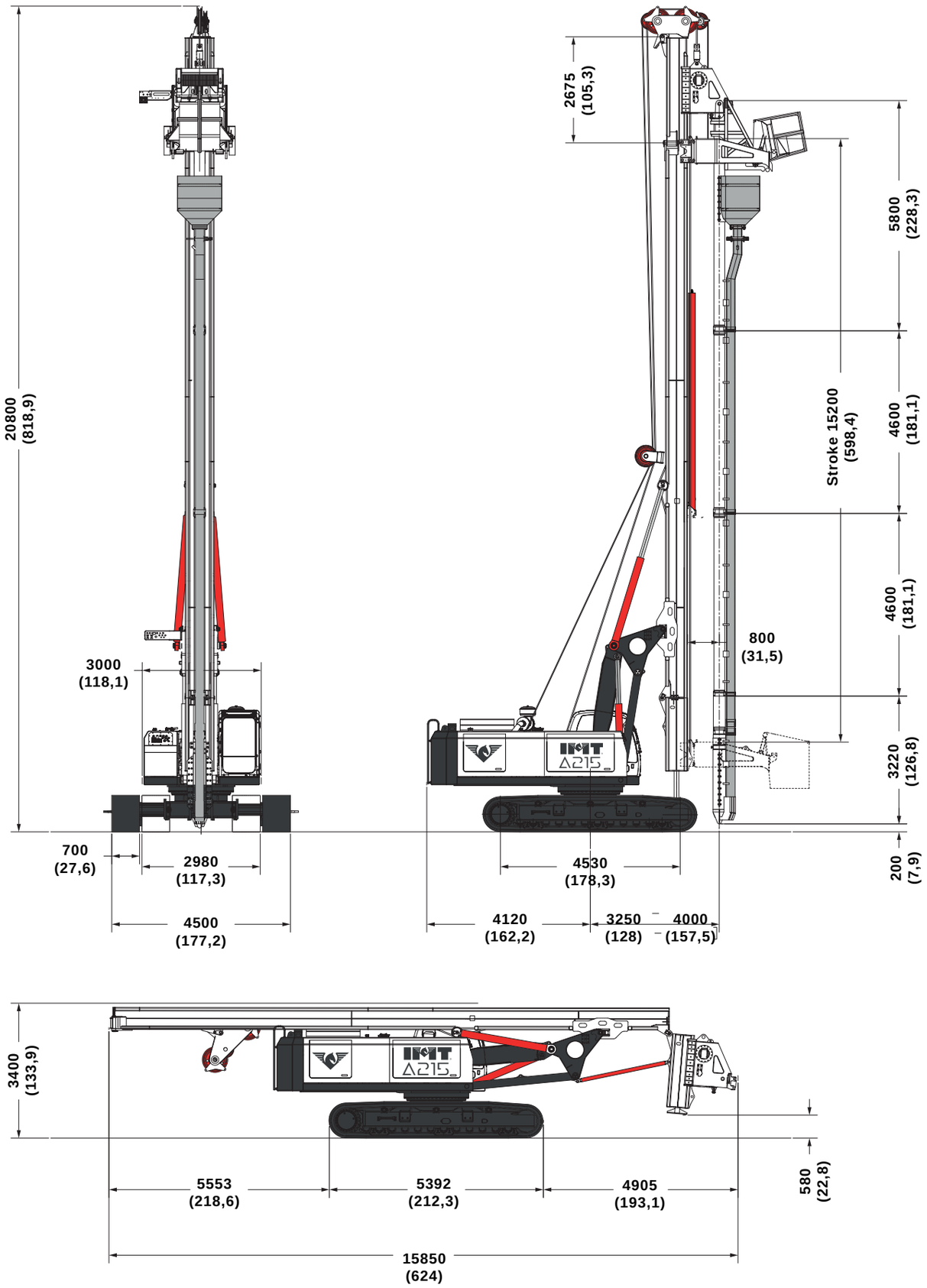
Counterweight Weight = 8 ton



Grab Weight = 4,9 ton
Grab = 800 mm



Vibroflotation version

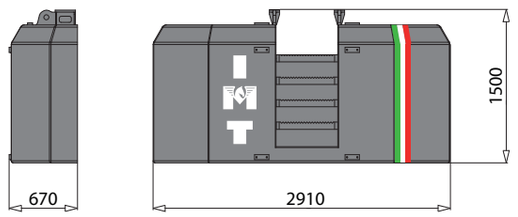


Technical specifications

Vibro		
Power of vibrator	kW	154
Operative frequence	Hz	30
Speed	rpm	1700 / 1900
Operative centrifugal force	kN	230
Amplitude	mm	26
Overall weight incl. extension tube	Kg	6400
Penetration depth	m	15
Pull force	kN	200
Push force	kN	130
Operating Weight w/out vibrator system	t (metric)	55
	lbs	121260

Removable parts for transport phase

Counterweight Weight = 8 ton



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Note

Note

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