



A 2290

hydraulic drill rig



A 290

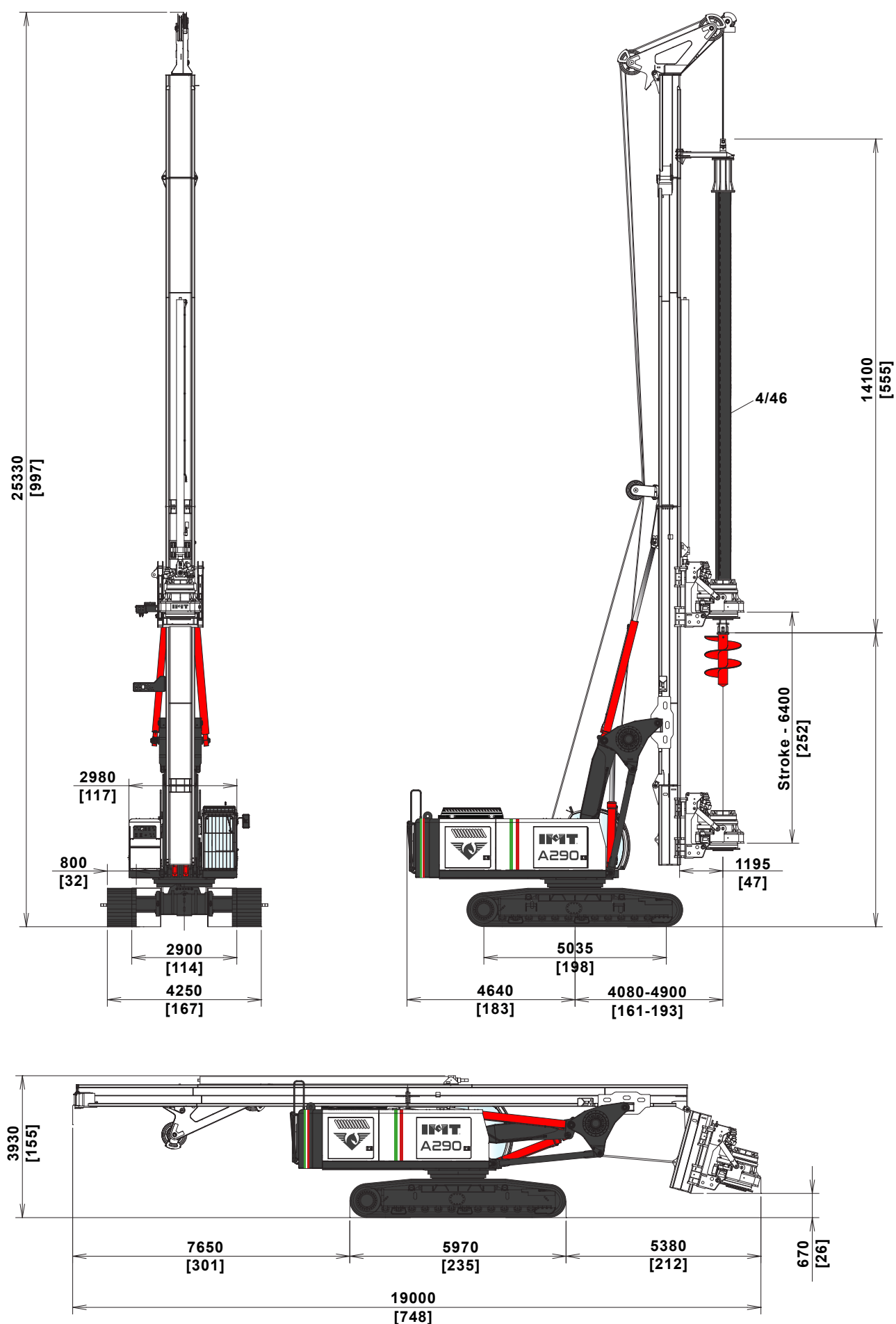
IMT, a global leader in the manufacture of drill rigs and a brand which has always been synonymous with quality and reliability in the pursuit of satisfying market demand, is pleased to present a new series of A drill rigs. This new line is unique in its simplicity and flexibility of use, while also perfectly maintaining sturdiness and productivity.

The A290 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.



A 290 - Hydraulic Drill Rig

Crowd cylinder version

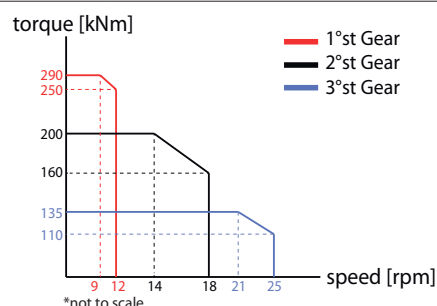


A 290 - Hydraulic Drill Rig

Technical specifications

A290 Crowd Cylinder

Rotary		
Nominal torque	kNm	290
	lbf ft	213895
Min. Working speed	rpm	12
Max. Working speed	rpm	25
Min. Discharge speed	rpm	72
Max. Discharge speed	rpm	105



Winches		
Main winch pull force	kN	270
	lbf	60700
Main winch speed	m/min	58
	ft/min	190
Main winch cable diameter	mm	30
	in	/
Auxiliary winch pull force	kN	120
	lbf	26980
Auxiliary winch speed	m/min	80
	ft/min	262
Auxiliary winch cable diameter	mm	22
	in	/

Crowd System		
Kelly crowd push	kN	300
	lbf	67450
Kelly crowd pull	kN	390
	lbf	87680
Stroke (mm)	mm	6400
	in	252

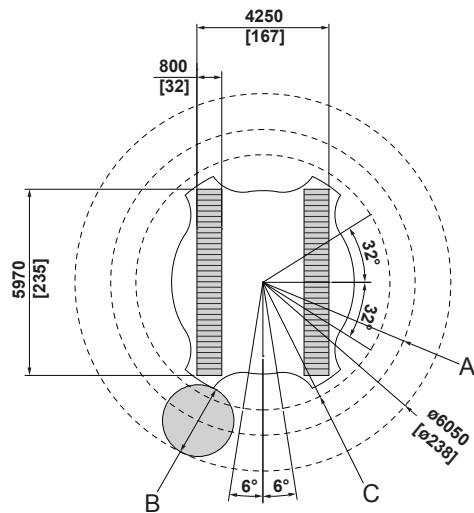
Base		IMT
Undercarriage length / widening range / shoe	mm	5970 / 2900 - 4250 / 800
	in	236 / 114 - 167 / 31,5
Engine type		CAT C13 T3/T4F STAGE V
		328 KW (446 HP) @1800 rpm T3
		340 KW (462 HP) @ 1800 rpm T4F STAGE V
Oil tank capacity	l	730
Fuel tank capacity	l	640

Mast		
Mast raking forward	degree	5°
Mast side raking	degree	±8°
Mast raking backwards	degree	15°
Pile max diameter (in front of mast)	mm	2300
	in	91

Kelly bar		
Standard		4/46
Options available		4/35 - 4/52 - 5/50 - 5/66 - 5/75
Operating Weight w/standard kelly bar	t (metric)	84,5
	lbs	186290

A 290 - Hydraulic Drill Rig

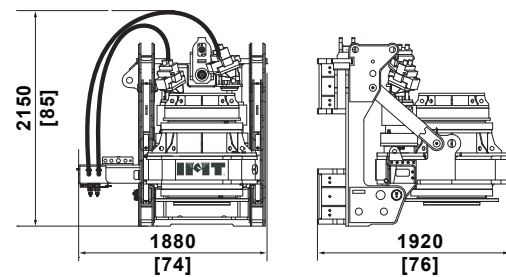
Working area crowd cylinder



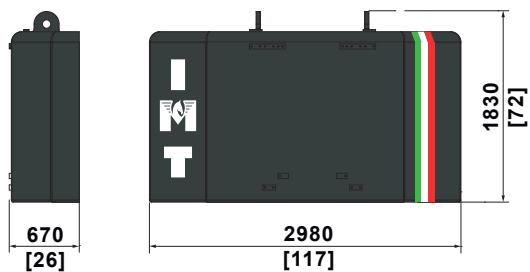
A	MAX WORKING RADIUS 4900 [R 193]
B	MAX TOOL DIAMETER 2300 [ø 91]
C	MIN WORKING RADIUS 4090 [R 161]

Removable parts for transport phase

Rotary Weight = 5,3 ton [11700 lb]



Counterweight Weight = 12 ton [26500 lb]



Equipment

- STANDARD EQUIPMENT -

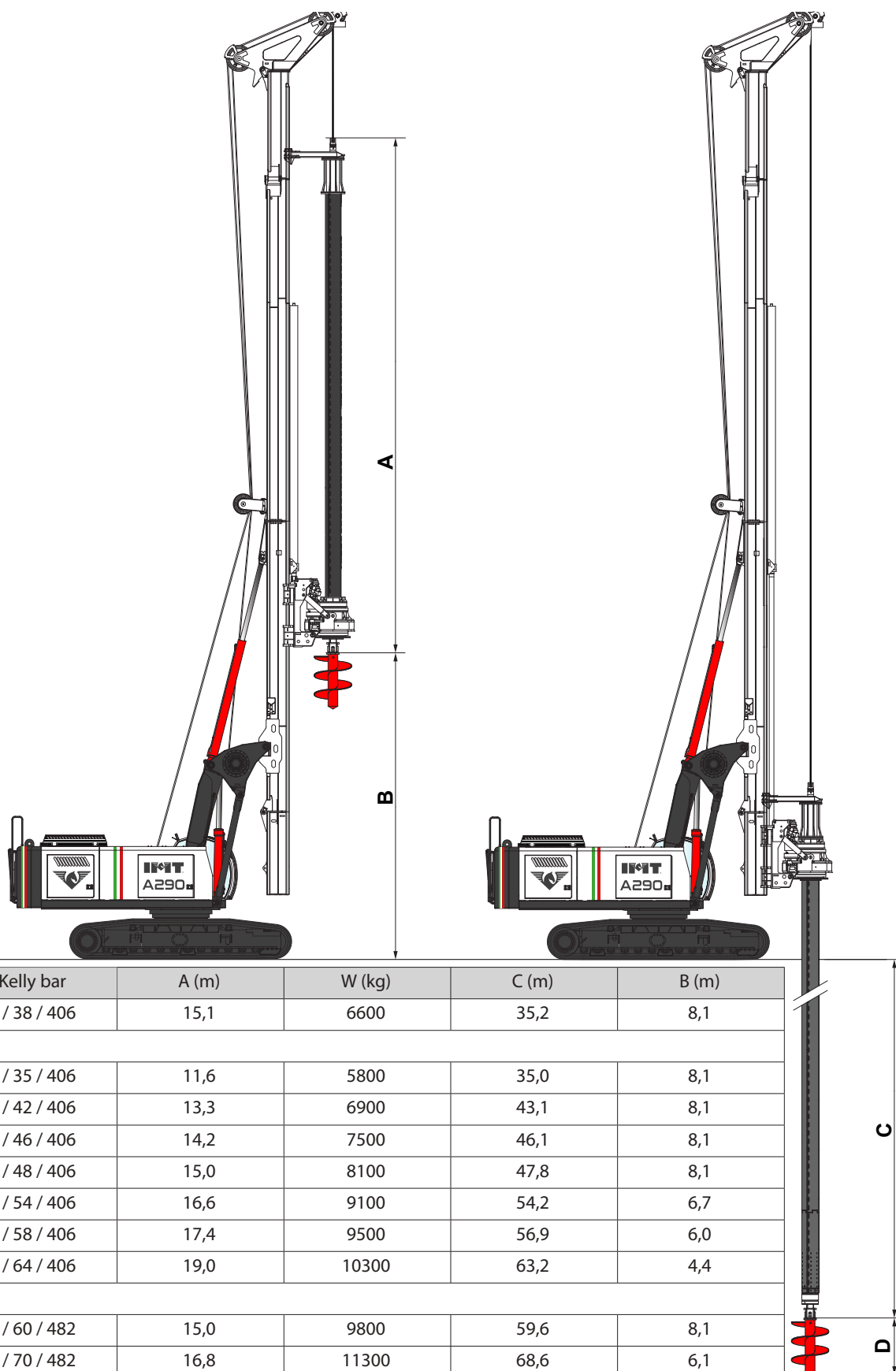
Air conditioner
Neutral lever (lock out) for all control
Guard cab front
Guard cat top
Winches spot light
Top cabin working lights
Fuel refill pump
Engine diagnostic system
Main and auxiliary load sensing circuit
Free flow during drilling phase
Automatic bottom hole stop
Depth measuring device on main winch
Mast inclination measurement
Kelly bar intelocking 4/46 (46m depth)
Rotary suitable for every kind of kelly bar
Quick coupling connections on crowd cylinder

- OPTIONAL EQUIPMENT-

Biodegradable oil
Rear camera / Lateral camera
Crowd winch kit
CFA kit
Grab kit
Vibro displacement kit
Cardanic universal joint kit
Casing oscillator kit
LCA kit
Every kind of Kelly bar
"Y" shape derrick
Tier 4 final / Eu stage V engine
GPS kit
Mast foot kit

A 290 - Hydraulic Drill Rig

Kelly bar standard version



3 PARTS

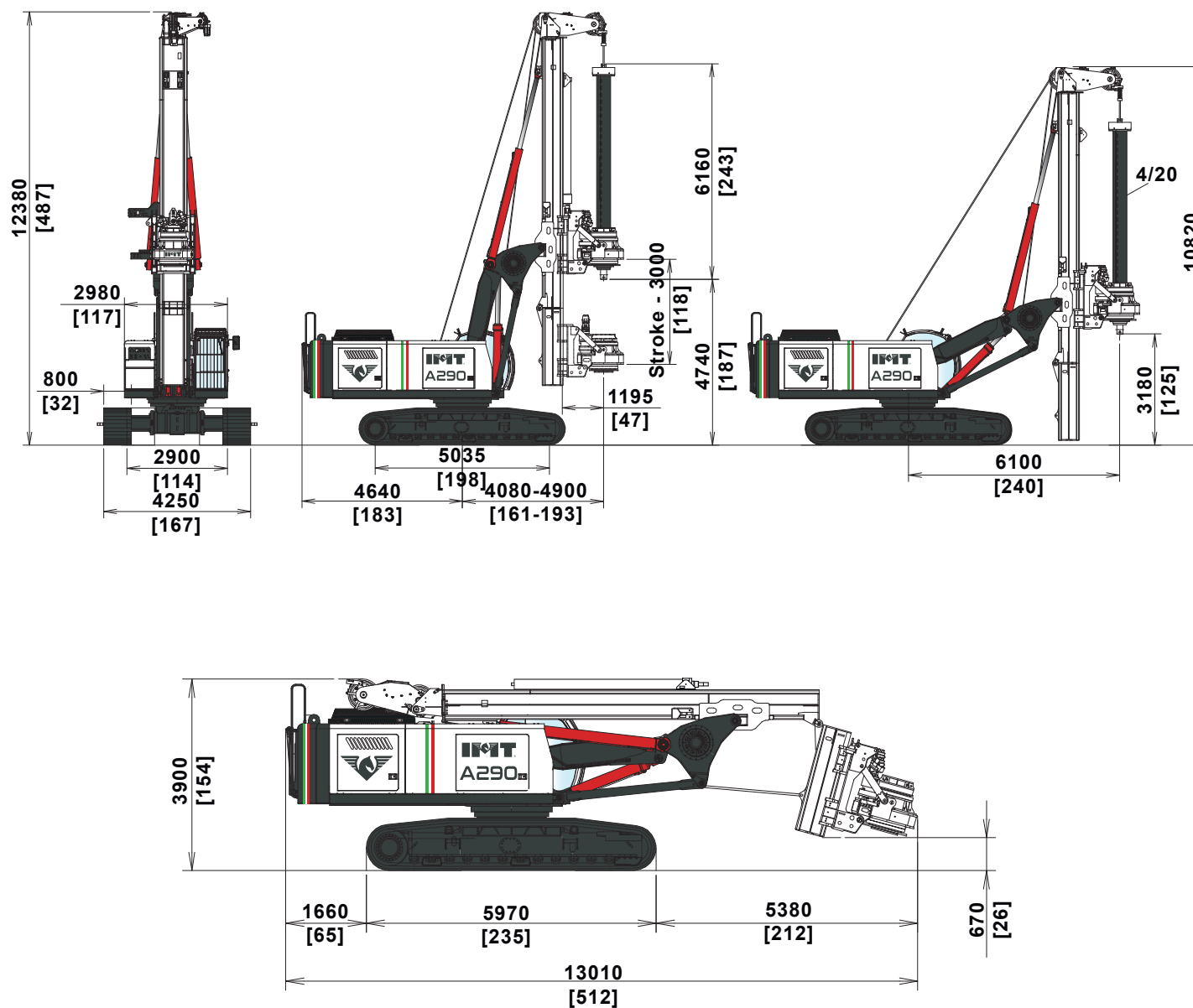
4 PARTS

5 PARTS

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

A 290 - Hydraulic Drill Rig

LCA version

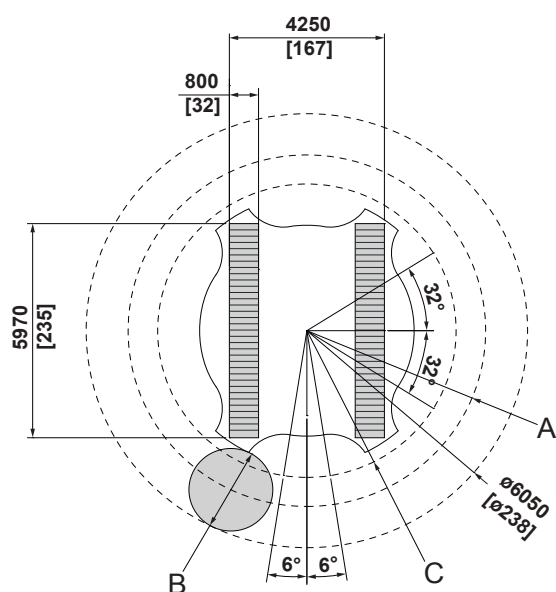


A 290 - Hydraulic Drill Rig

Technical specifications

Crowd System		
Stroke	mm	3000
	in	118
Kelly Bar		
Standard		4/20
Options available		5/25
Operating Weight without auger		
	t (metric)	72,5
	lbs	159840

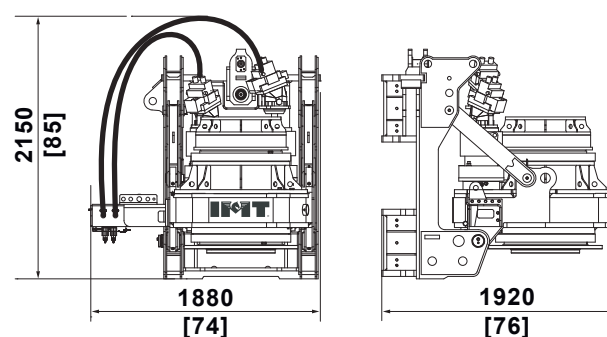
Working area LCA



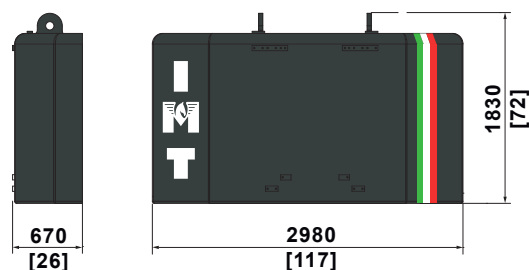
A	MAX WORKING RADIUS 4900 [R 193]
B	MAX TOOL DIAMETER 2300 [ø 91]
C	MIN WORKING RADIUS 4090 [R 161]

Removable parts for transport phase

Rotary Weight = 5,3 ton [11700 lb]

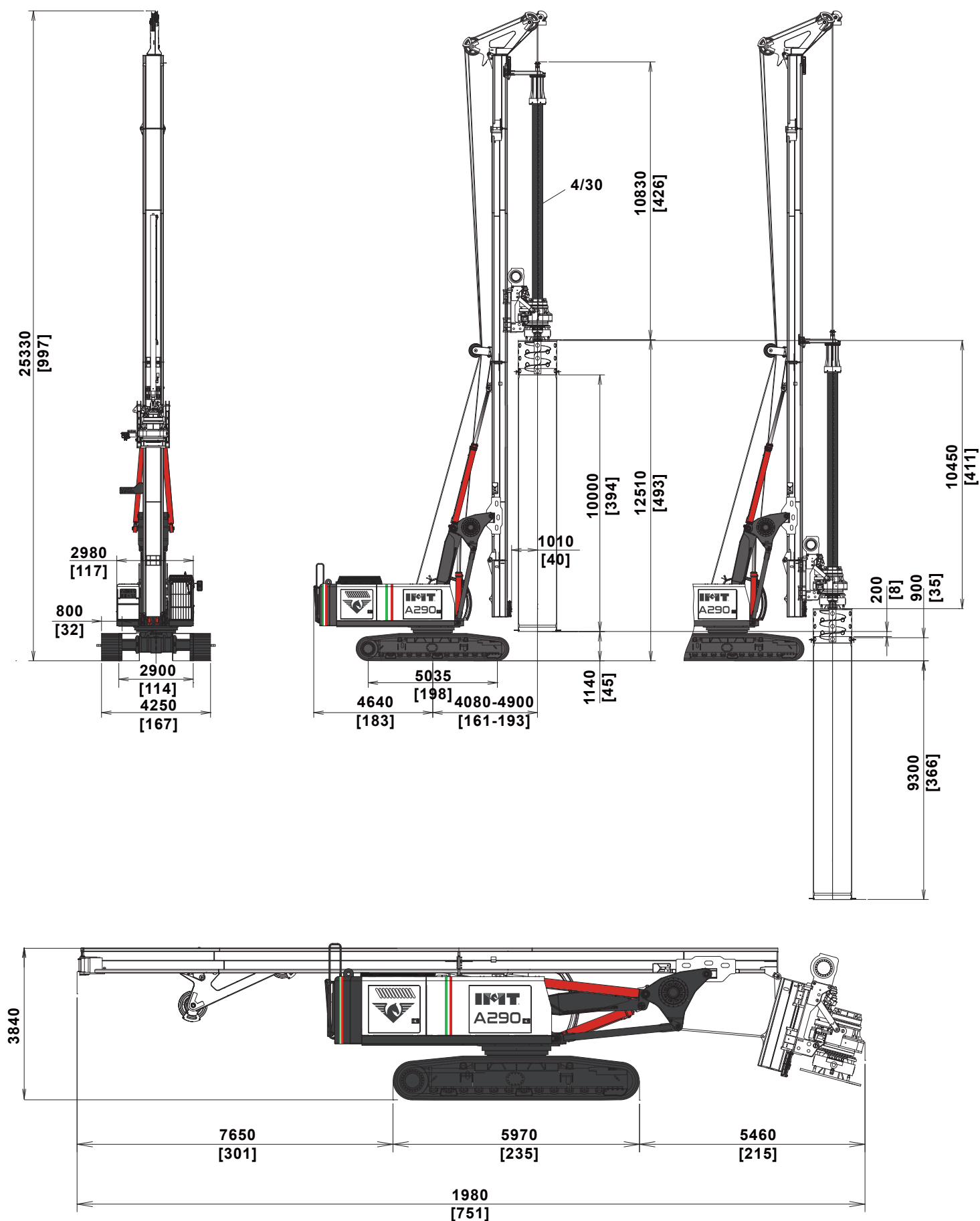


Counterweight Weight = 12 ton [26500 lb]



A 290 - Hydraulic Drill Rig

Crowd winch version

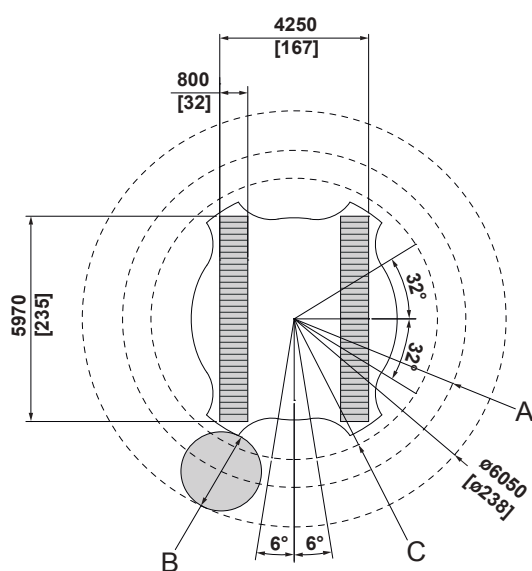


A 290 - Hydraulic Drill Rig

Technical specifications

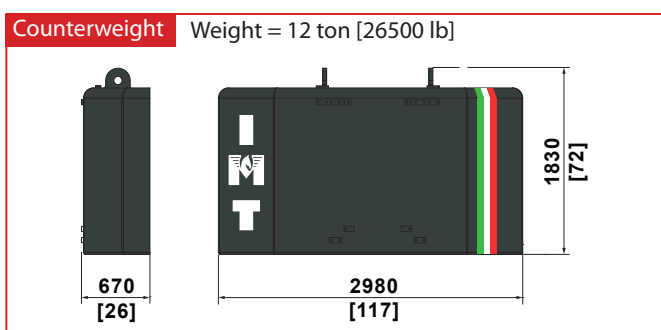
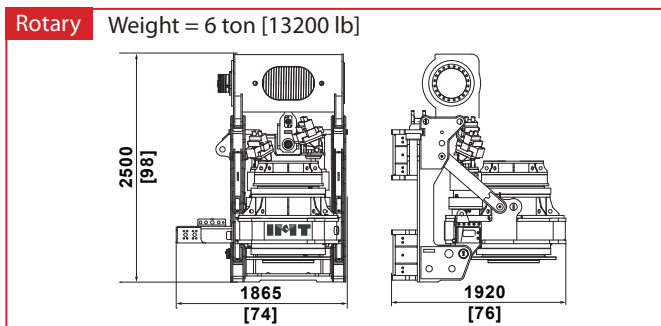
Winch Crowd System		
Kelly crowd push	kN	340
	lbf	74190
Kelly crowd pull	kN	340
	lbf	74190
Speed	m/min	7
	ft/min	23
Fast speed	m/min	20
	ft/min	65
Rope diameter	mm	26
Mast		
Pile max diameter	mm	1900
	in	75
Operating Weight w/standard kelly bar (4/30)	t (metric)	85
	lbs	166450

Working area crowd winch



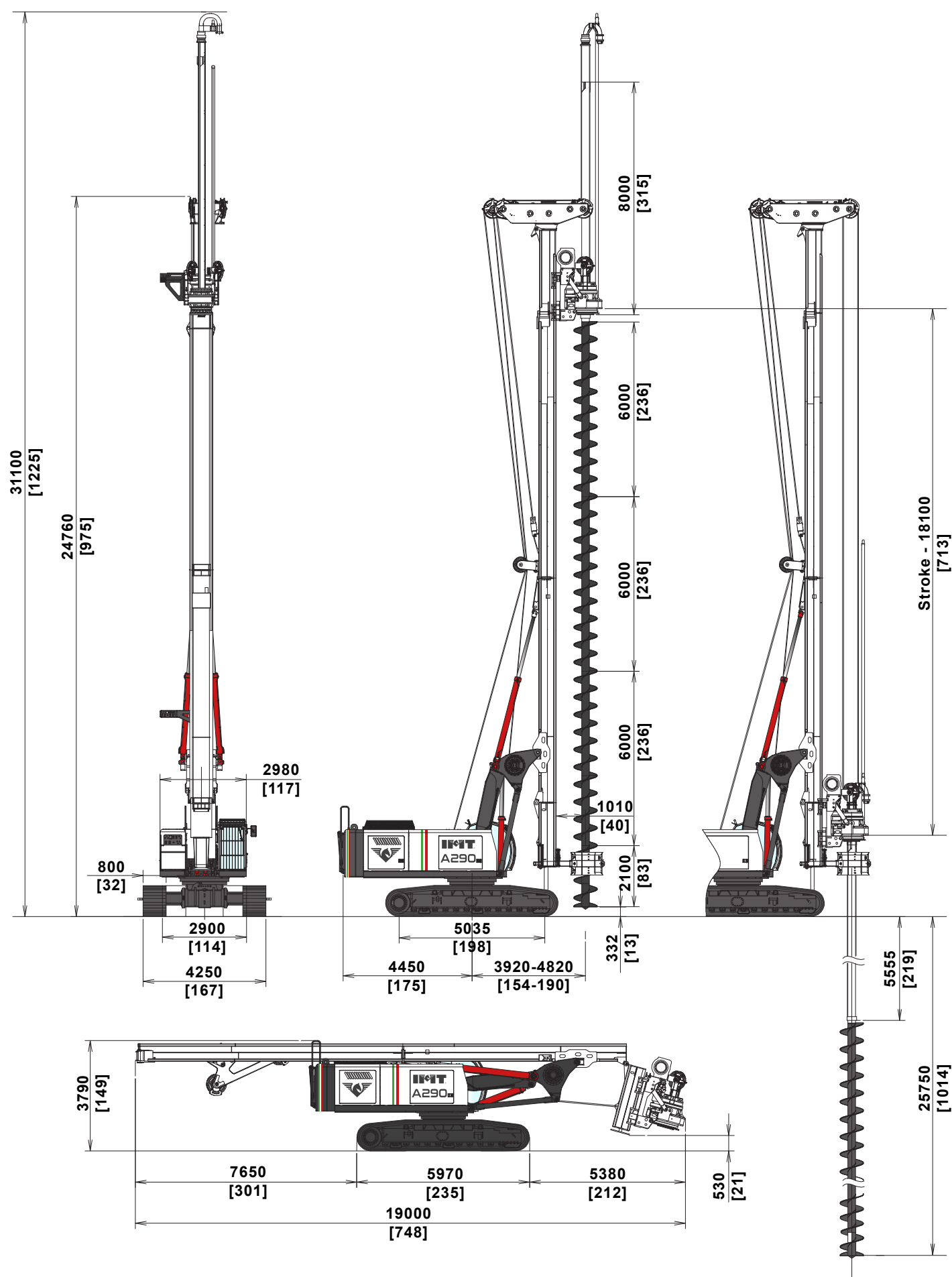
A	MAX WORKING RADIUS 4900 [R 193]
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Removable parts for transport phase



A 290 - Hydraulic Drill Rig

CFA version

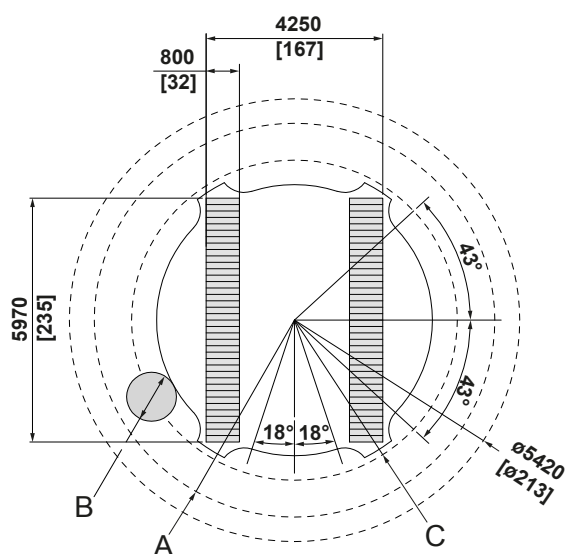


A 290 - Hydraulic Drill Rig

Technical specifications

Crowd System		
Pushing force	kN	340
	lbf	74190
Pulling force	kN	800
	lbf	179850
Max push / pull speed	m / min	15 / 15
	ft / min	50
Rotary stroke	mm	18100
Main winch cable diameter	mm	30
Drilling depth maximum w/o auger extension	m	17,75
	ft	58,22
Drilling depth maximum w auger extensions	m	25,75
	ft	84,46
Auxiliary wick		
Auxiliary winch pull force	kN	120
	lbf	26980
Auxiliary winch speed diameter	m/min	80
	ft/min	262
Auxiliary winch cable diameter	mm	22
	in	/
Pile max diameter	mm	1200
	in	48
Operating Weight without auger		
	t (metric)	85
	lbs	169760

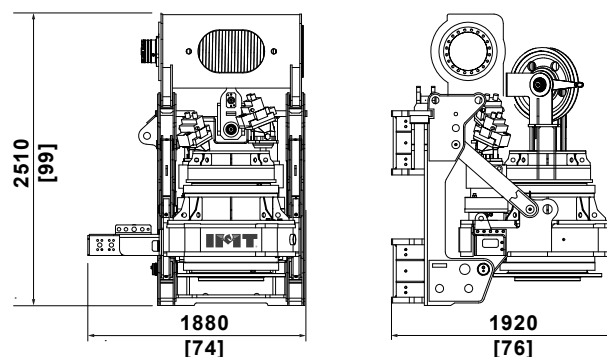
Working area CFA



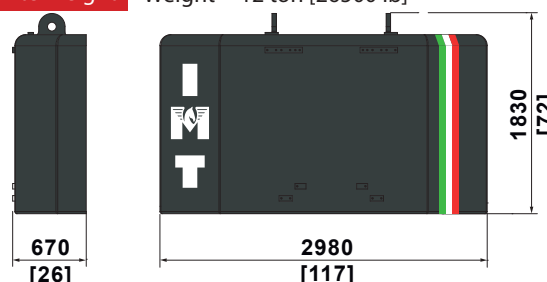
A	MAX WORKING RADIUS 4820 [R 190]
B	MAX DRILLING TOOL 1200 [ø 47]
C	MIN WORKING RADIUS 3920 [R 154]

Removable parts for transport phase

Rotary Weight = 6,7 ton [14800 lb]

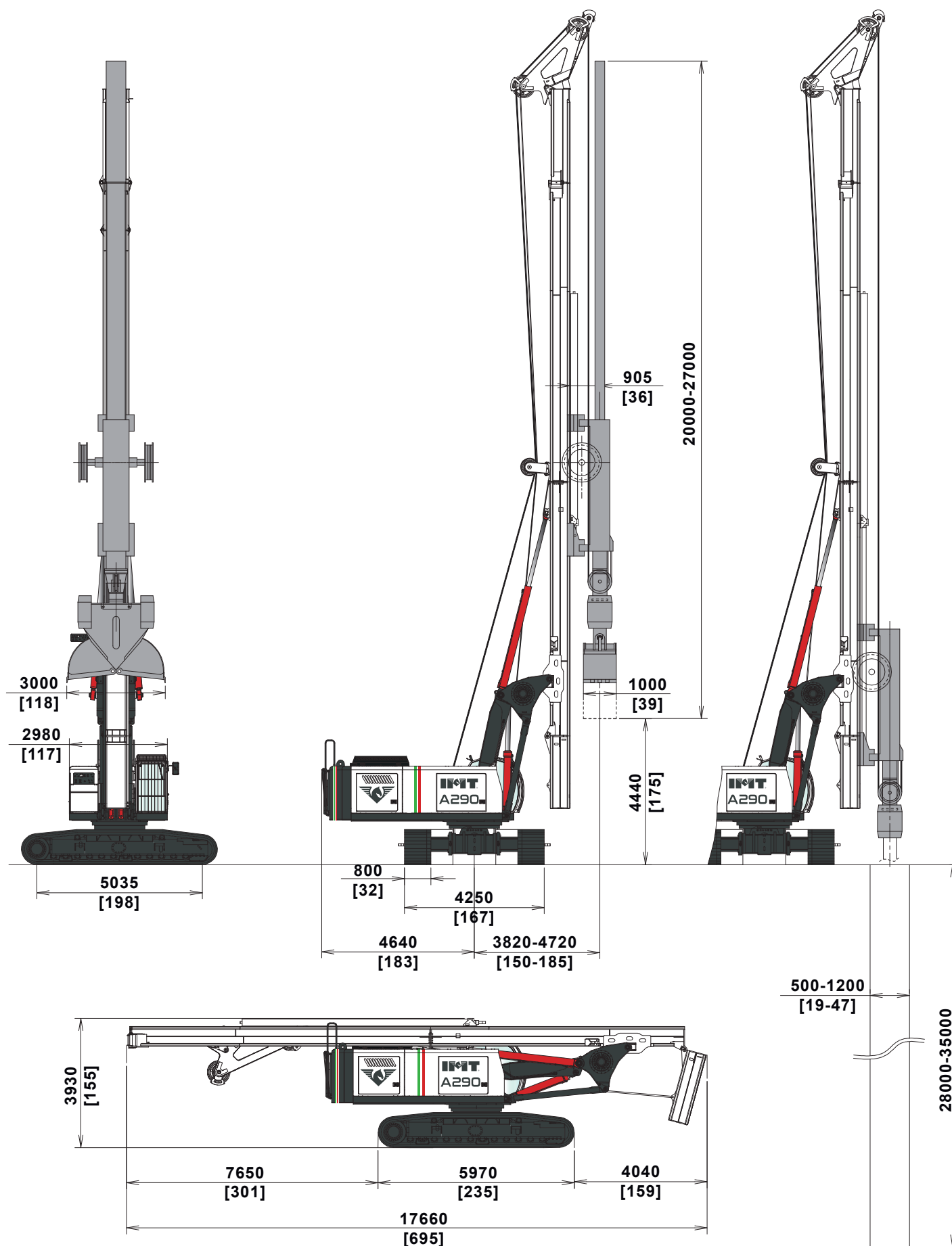


Counterweight Weight = 12 ton [26500 lb]



A 290 - Hydraulic Drill Rig

Grab version

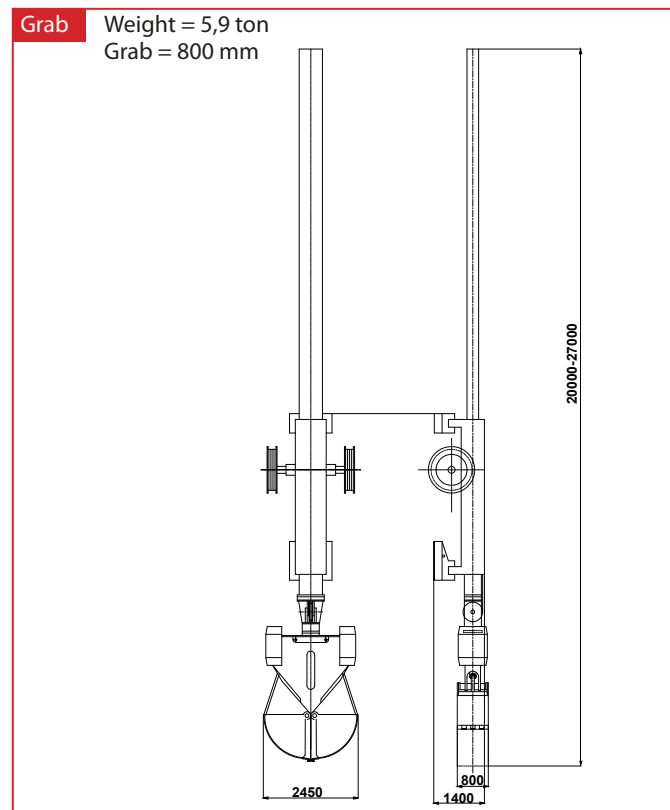
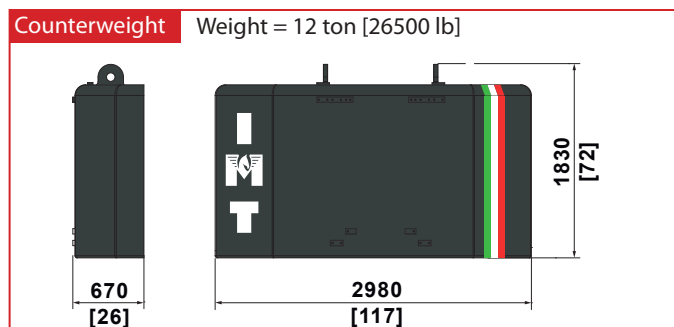


A 290 - Hydraulic Drill Rig

Technical specifications

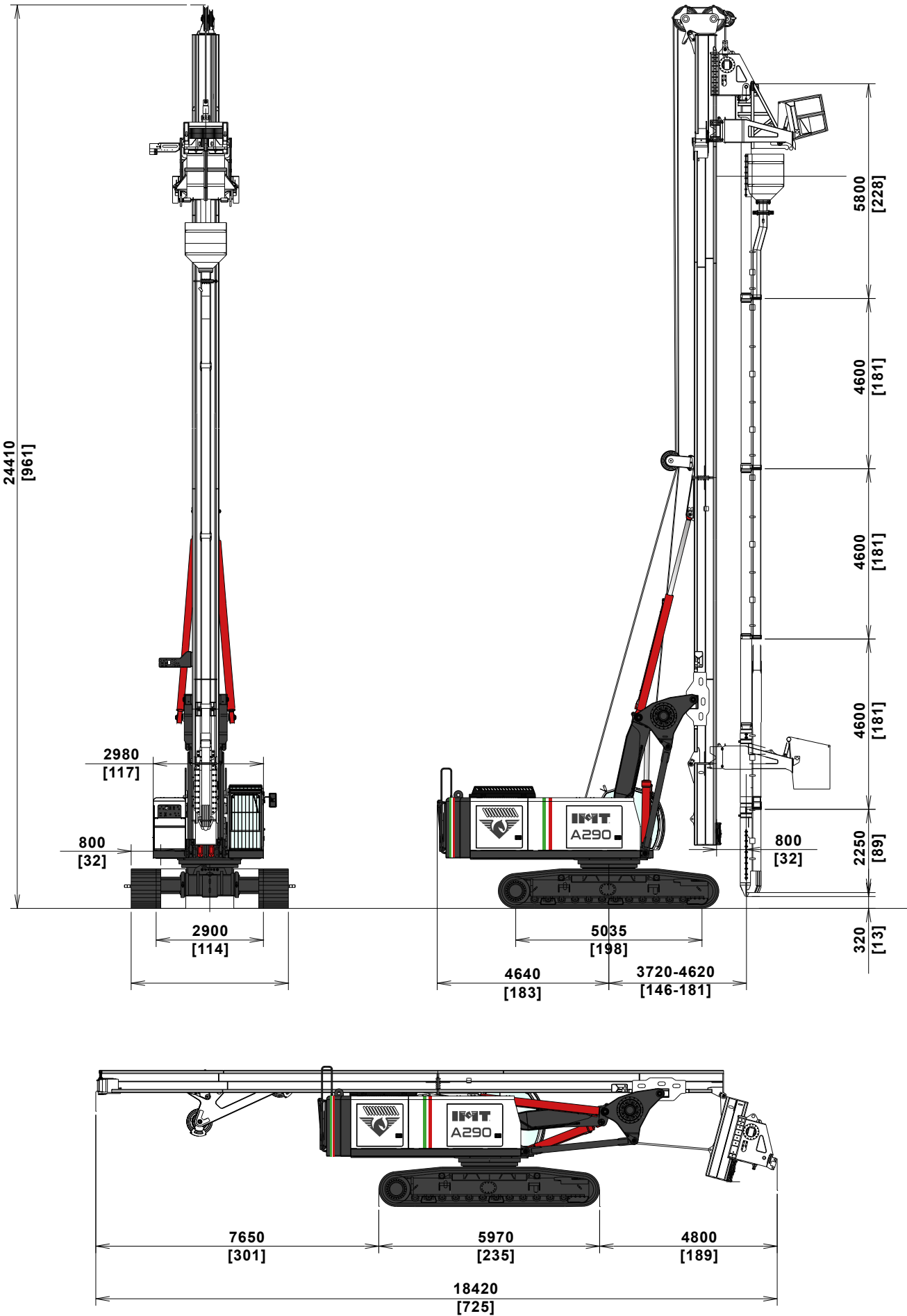
Crowd System		
Excavation width	mm	500-600-800-1200
Jaws opening	mm	3000
Excavation depth	m	28-35
Weight of grab	Kg	5700 / 6000 / 6600 / 7000
Continuous operating pressure	bar	320
Grab capacity	m ³	/
Max closing force	kN	1630
Grab rotation	degree(°)	+45° / - 45°
Winches		
Main winch pull force	kN	540
	lbf	121400
Main winch speed	m/min	29
	ft/min	95
Operating Weight w/out grab	t (metric)	73,5
	lbs	152500

Removable parts for transport phase



A 290 - Hydraulic Drill Rig

Vibroflotation version

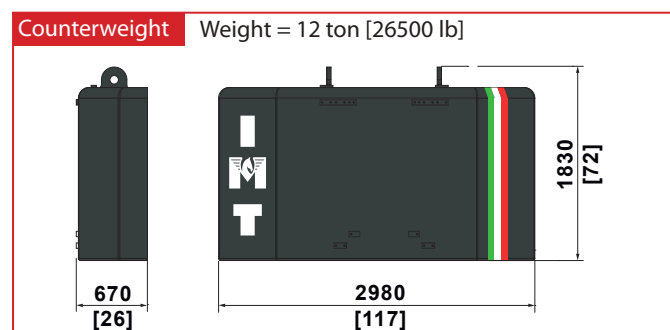


A 290 - Hydraulic Drill Rig

Technical specifications

Vibro		
Power of vibrator	kW	154
Operative frequency	Hz	50
Speed	rpm	3000
Operative centrifugal force	kN	230
Overall weight incl. extension tube	Kg	7000
Penetration depth	m	17,8
Pull force	kN	540
Push force	kN	130
Operating Weight w/out grab	t (metric)	73
	lbs	152500

Removable parts for transport phase



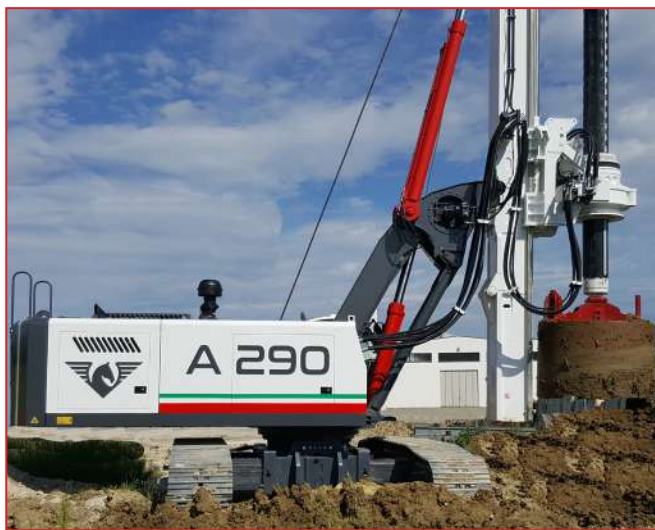
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Note



Note

Area with horizontal lines for notes.

A 290 - Hydraulic Drill Rig

Worldwide sales and assistance network



IMT dealers, a global network at your service
IMT, like very few other companies in the field,
has a global commercial and assistance network which is
present in over 30 countries.
From any part of the world IMT clients know which they
can always count on fast and efficient service.





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