



IMT®

A 90

hydraulic drill rig

IMT®

INVT.



A 90

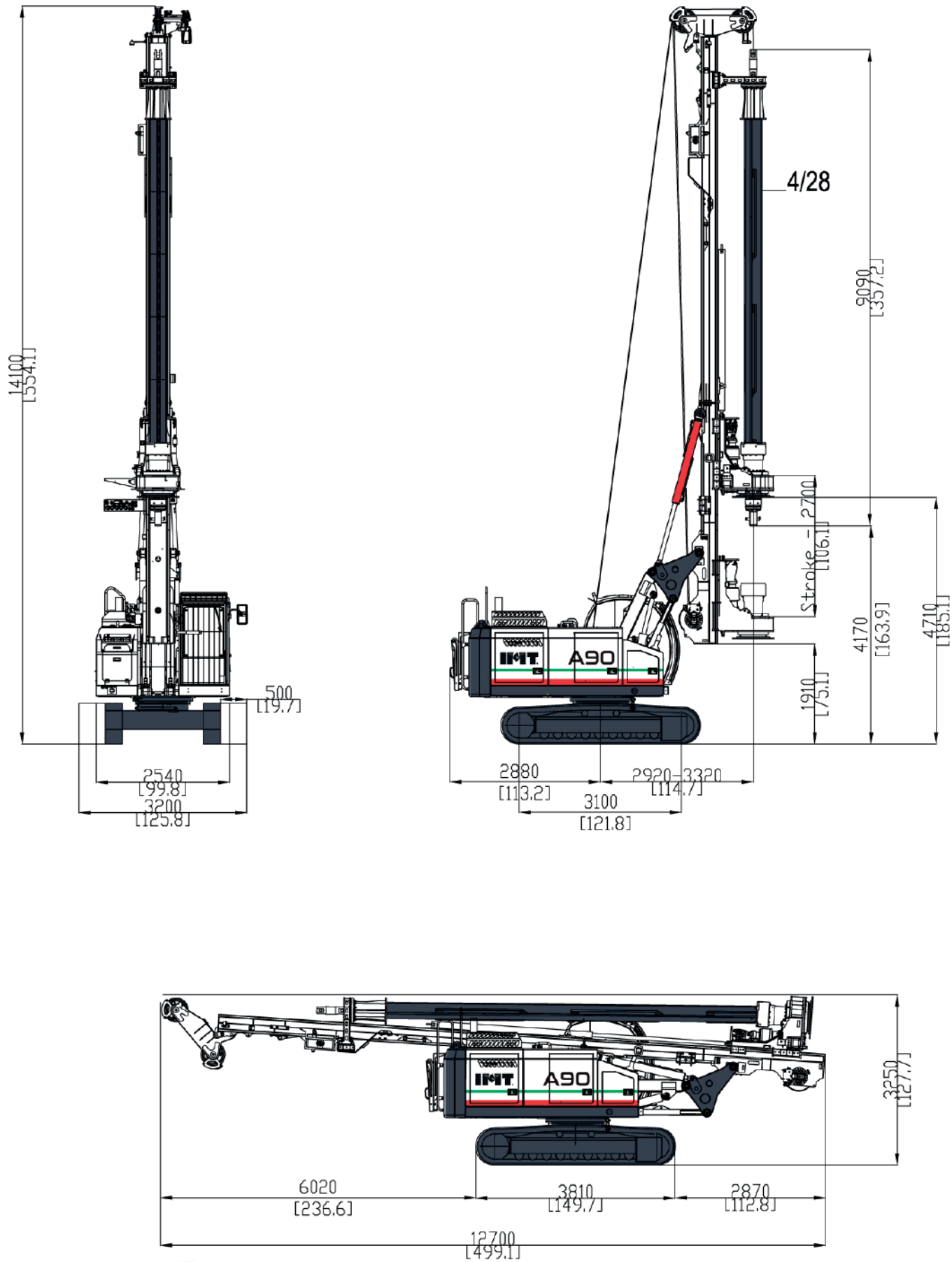
IMT, a global leader in the manufacture of drill rigs and a brand which has always been synonymous with quality and reliability in the pursuit of satisfying market demand, is pleased to present a new series of A drill rigs. This new line is unique in its simplicity and flexibility of use, while also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

The A90 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 compact dimensions, powerful winch and rotary it allows to perform very fast working cycles in small job sites. Its heavy duty variable gauge undercarriage guarantees optimal stability in various working conditions and configurations.



A 90 - Hydraulic Drill Rig

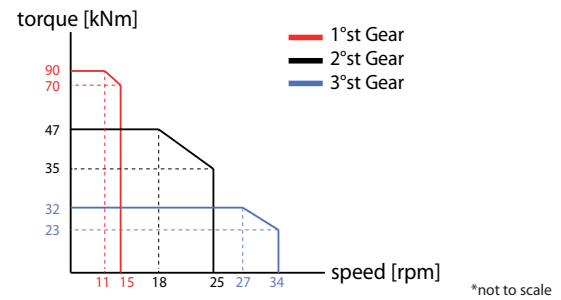
Crowd cylinder version



Technical specifications

A90 Crowd Cylinder

Rotary		
Installed torque	kNm	90
	lbf ft	63300
Min. Working speed	rpm	11
Max. Working speed	rpm	34
Min. Discharge speed	rpm	60
Max. Discharge speed	rpm	95



Winches		
Main winch nominal pull force	kN	100
	lbf	22485
Main winch speed	m/min	60
	ft/min	197
Main winch cable diameter	mm	20
	in	/
Auxiliary winch nominal pull force	kN	35
	lbf	7870
Auxiliary winch speed	m/min	35
	ft/min	110
Auxiliary winch cable diameter	mm	12
	in	/

Crowd System		
Kelly crowd push	kN	95
	lbf	21360
Kelly crowd pull	kN	110
	lbf	24730
Stroke (mm)	mm	2700
	in	106

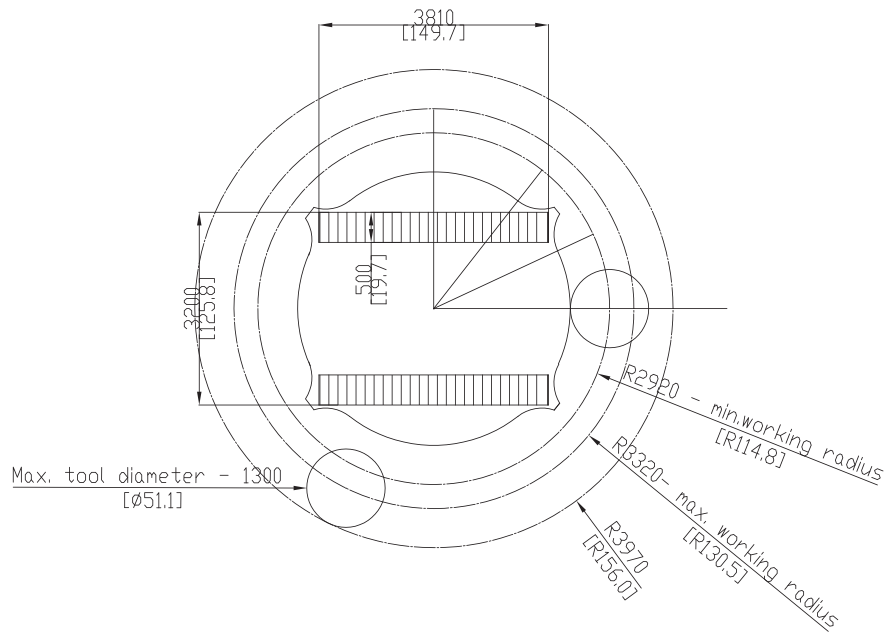
Base	IMT	
Undercarriage length / widening range / shoe	mm	3810/2540-3200/500
	in	150/100-126/19,7
Engine type	CUMMINS F3-8 T4 FINAL STAGE ▽ 100 KW (136 HP) @1800 rpm	
Oil tank capacity	l	180
Fuel tank capacity	l	185

Mast		
Mast raking forward	degree	4°
Mast side raking	degree	±5°
Mast raking backwards	degree	15°
Pile max diameter (in front of mast)	mm	1300
	in	52

Kelly bar		
Standard		4/28
Options available		4/22 - 4/32 - 4/35
Operating Weight w/standard kelly bar	t (metric)	26,8
	lbs	59100

A90 - Hydraulic Drill Rig

Working area crowd cylinder



A	MAX WORKING RADIUS 3320
B	MAX TOOL DIAMETER 1300
C	MIN WORKING RADIUS 2920

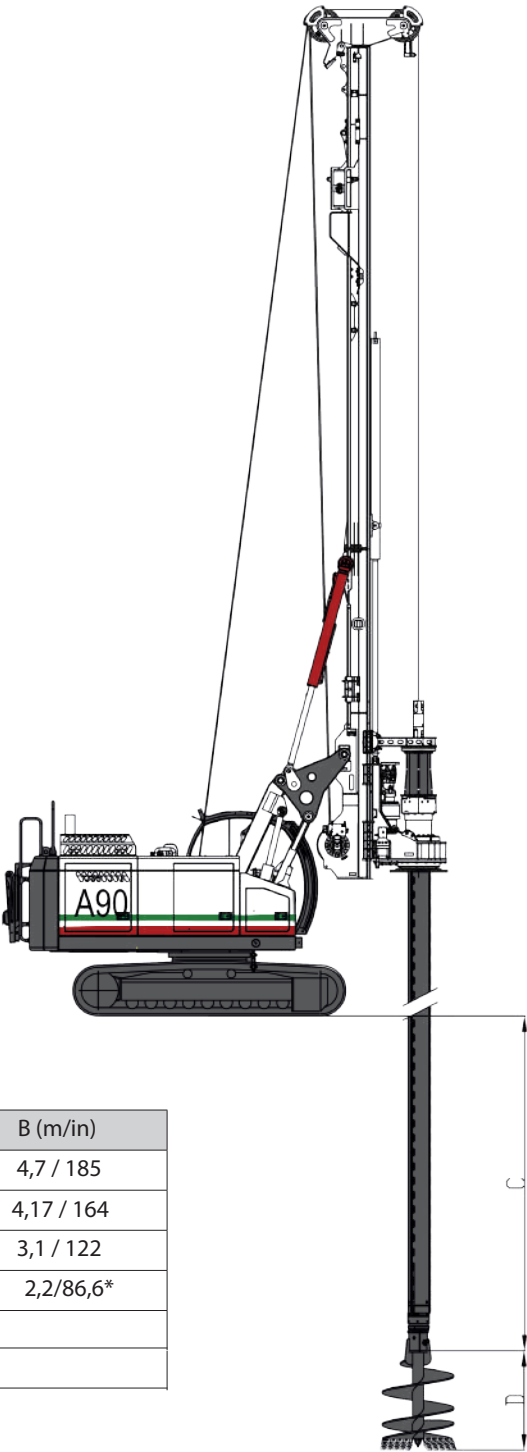
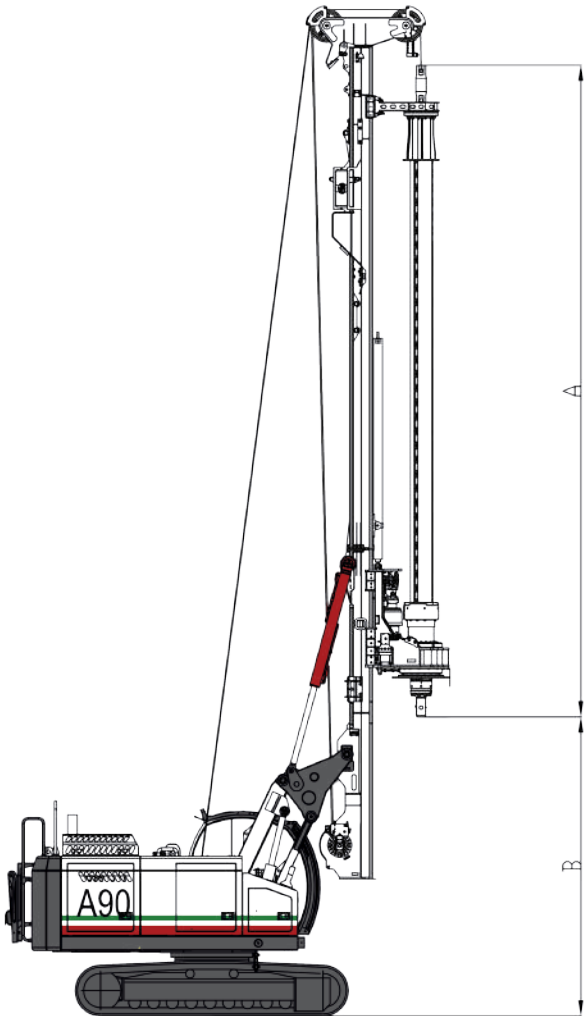
Equipment

- STANDARD EQUIPMENT -
Air conditioner
Neutral lever (lock out) for all control
Guard cab front
Guard cat top
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 interlocking 4/28 (28m depth)
Rotary suitable for every kind of kellybar
"Y" shape derrick

- OPTIONAL EQUIPMENT-
Biodegradable oil
Rear camera / Lateral camera
CFA kit
Universal joint kit
LCA kit
Every kind of Kelly bar
Tier 3 engine
GPS kit
Automatic lubrication system
Remote control for tracks and boom
Advanced display
Rubber covers for tracks

A90 - Hydraulic Drill Rig

Kelly bar standard version



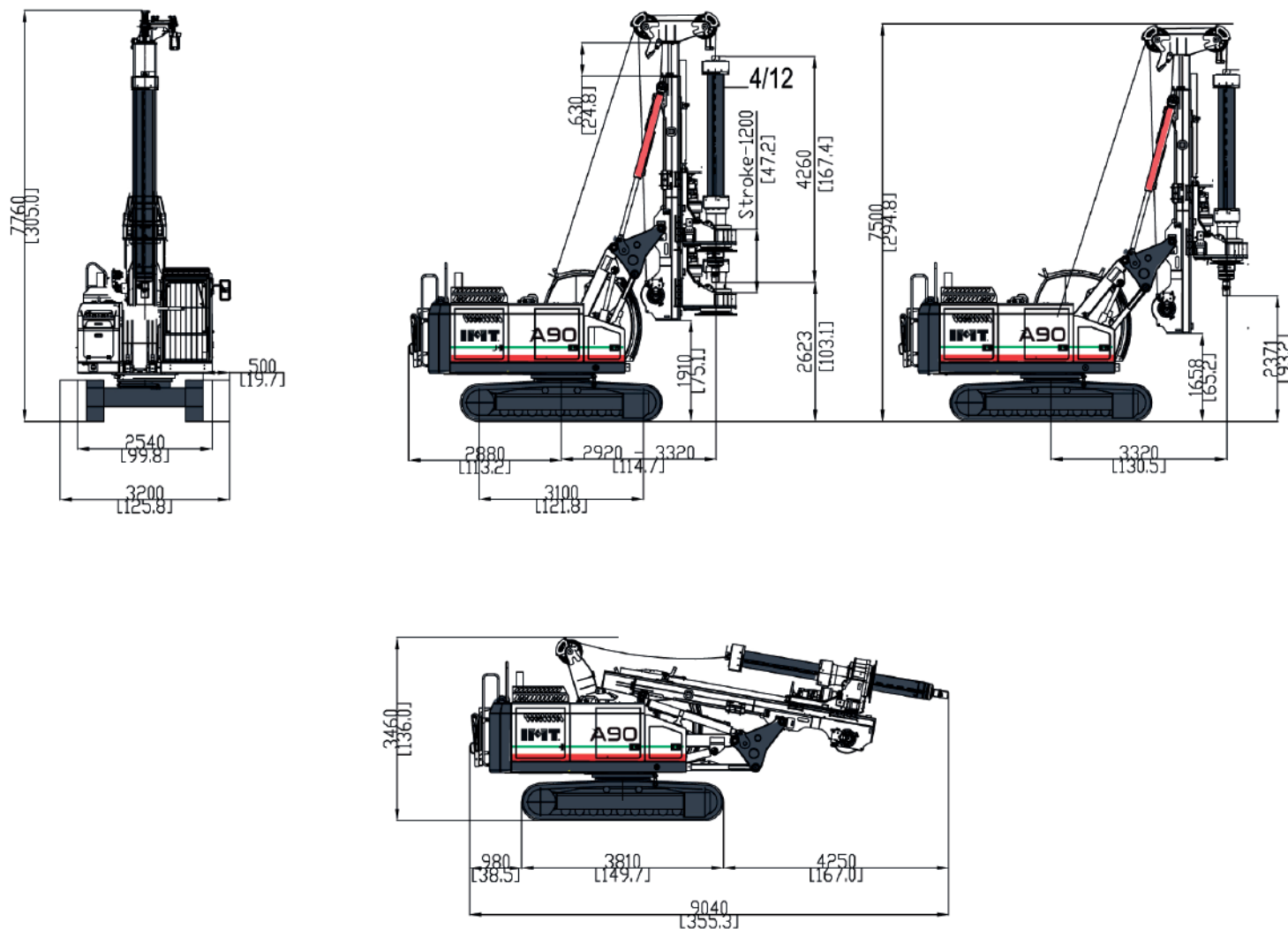
Kelly bar	A (m/in)	W (kg/lb)	C (m/ft)	B (m/in)
4 / 25	9,3 / 307	2500 / 5500	22,7 / 74,5	4,7 / 185
4 / 28	9,2 / 362	2400 / 5300	26,5 / 87	4,17 / 164
4 / 32	10,2 / 401	2750 / 6060	29,8 / 97,7	3,1 / 122
4 / 35	11 / 433	3000 / 6610	32,9 / 108	2,2/86,6*

* Mast extension 600 mm lenght available to increase clearance

D	1,5 (m)	130 x 130 mm
Standard square joint 130x130 other dimension available		
Further kelly bars availabre on request		

A90 - Hydraulic Drill Rig

LCA version

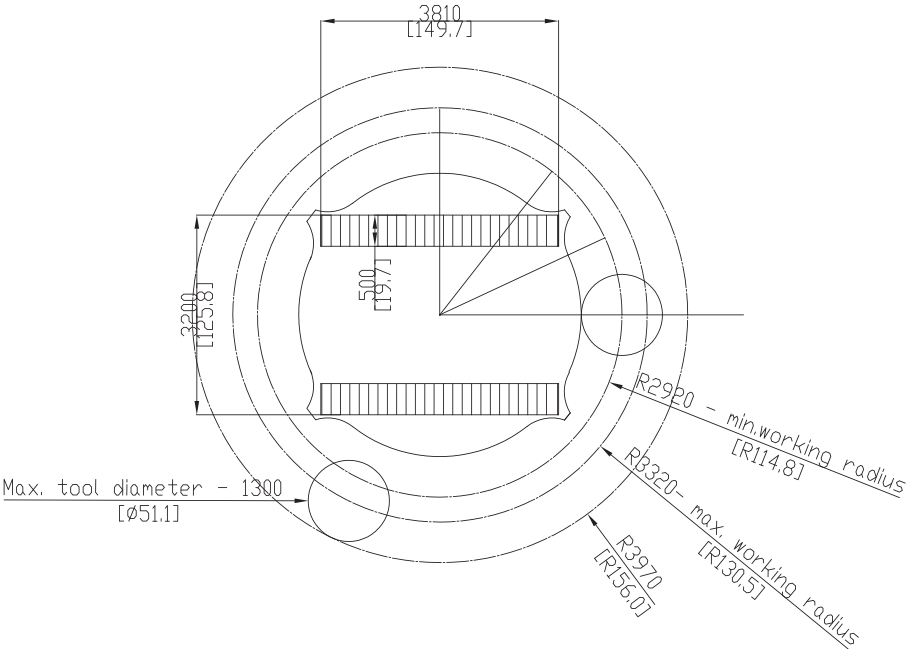


A90 - Hydraulic Drill Rig

Technical specifications LCA version

Crowd System		
Stroke	mm	1200
	in	47,2
Kelly Bar		
Standard		4/12
Operating Weight without auger		
	t (metric)	24,3
	lbs	53570

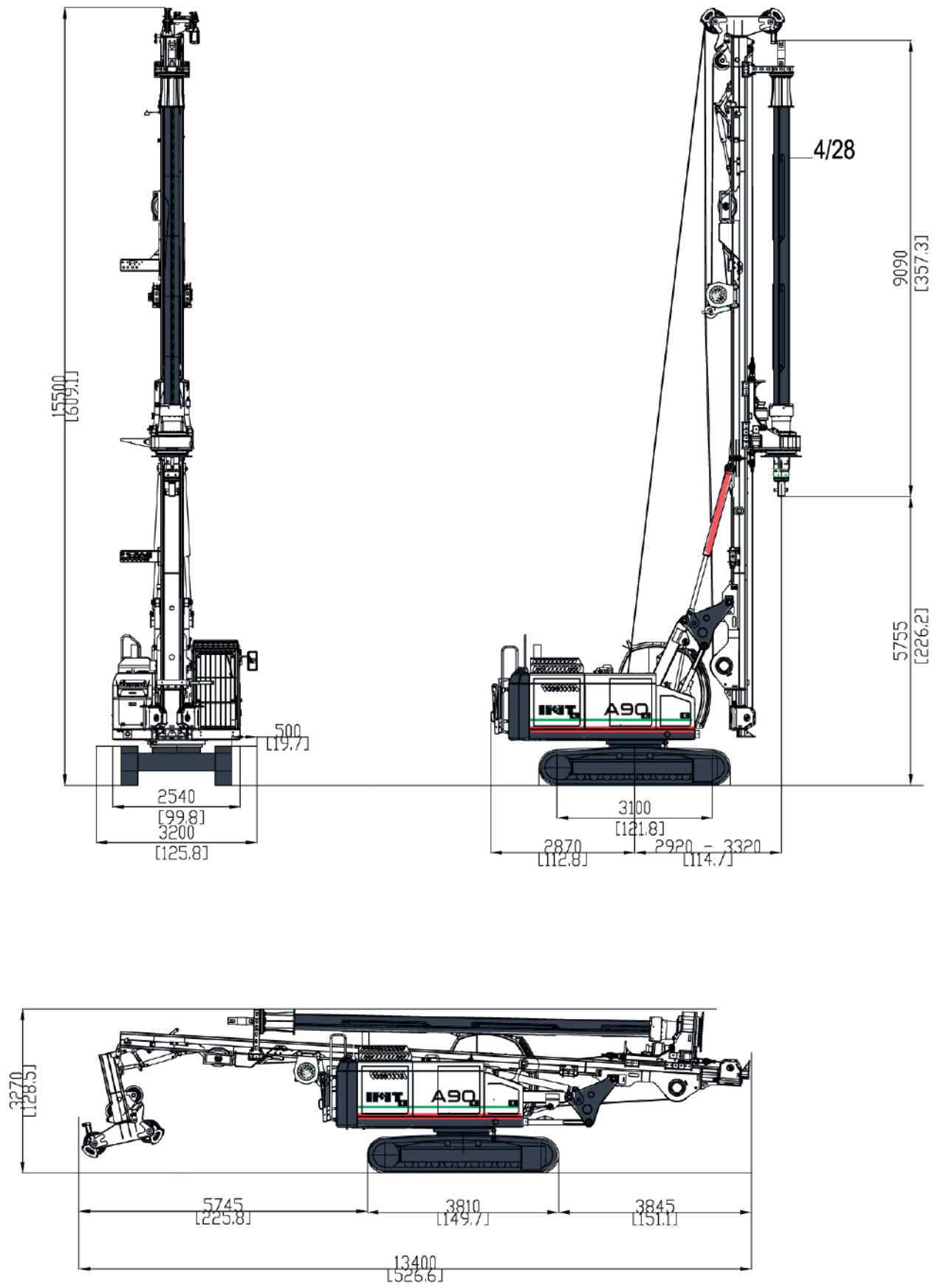
Working area LCA



- A MAX WORKING RADIUS 3320
- B MAX TOOL DIAMETER 1300
- C MIN WORKING RADIUS 2920

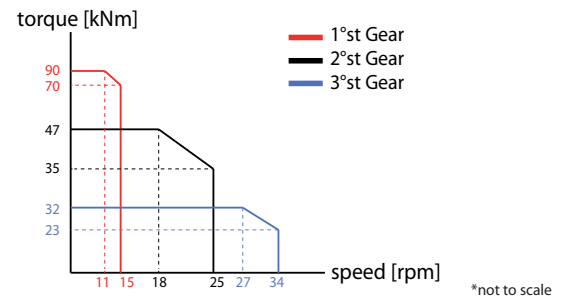
A90 - Hydraulic Drill Rig

Crowd Winch



A90 Crowd Winch

Rotary		
Installed torque	kNm	90
	lbf ft	63300
Min. Working speed	rpm	11
Max. Working speed	rpm	34
Min. Discharge speed	rpm	60
Max. Discharge speed	rpm	95



Winches		
Main winch nominal pull force	kN	100
	lbf	22485
Main winch speed	m/min	60
	ft/min	197
Main winch cable diameter	mm	20
	in	/
Auxiliary winch nominal pull force	kN	35
	lbf	7870
Auxiliary winch speed	m/min	35
	ft/min	110
Auxiliary winch cable diameter	mm	12
	in	/

Crowd System		
Kelly crowd nominal push	kN	120
	lbf	26980
Kelly crowd nominal pull	kN	120
	lbf	26980
Speed Up/Down	m/min	15
Rope diameter	mm	16

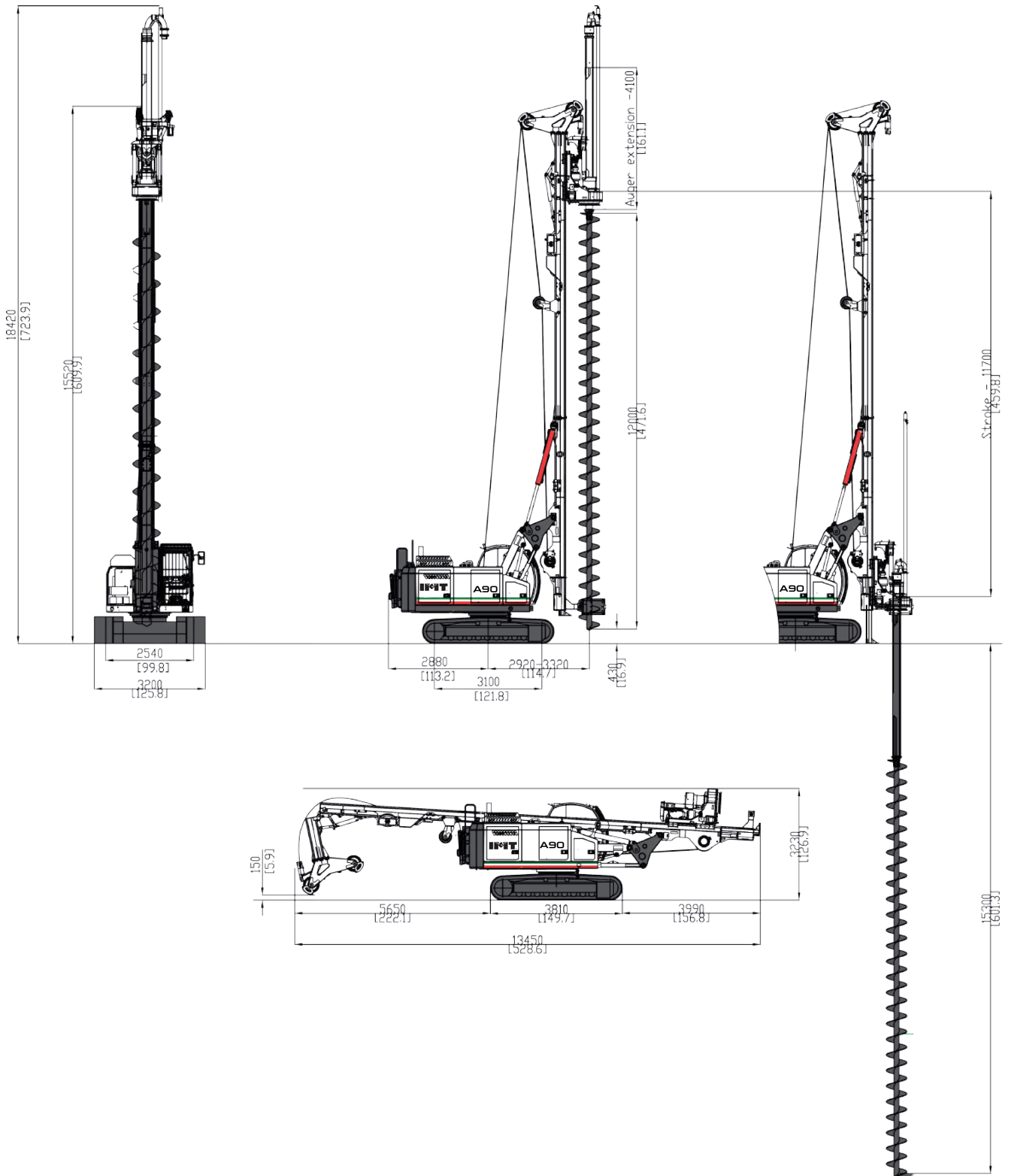
Base	IMT	
Undercarriage length / widening range / shoe	mm	3810/2540-3200/500
	in	150/100-126/19,7
Engine type	CUMMINS F3-8 T4 FINAL STAGE ▽	
	100 KW (136 HP) @1800 rpm	
Oil tank capacity	l	180
Fuel tank capacity	l	185

Mast		
Mast raking forward	degree	4°
Mast side raking	degree	±5°
Mast raking backwards	degree	15°
Pile max diameter (in front of mast)	mm	1000
	in	40

Kelly bar		
Standard		4/28
Options available		4/22 - 4/32 - 4/35
Operating Weight w/standard kelly bar	t (metric)	27,5
	lbs	60600

A90 - Hydraulic Drill Rig

CFA II° Line Pull



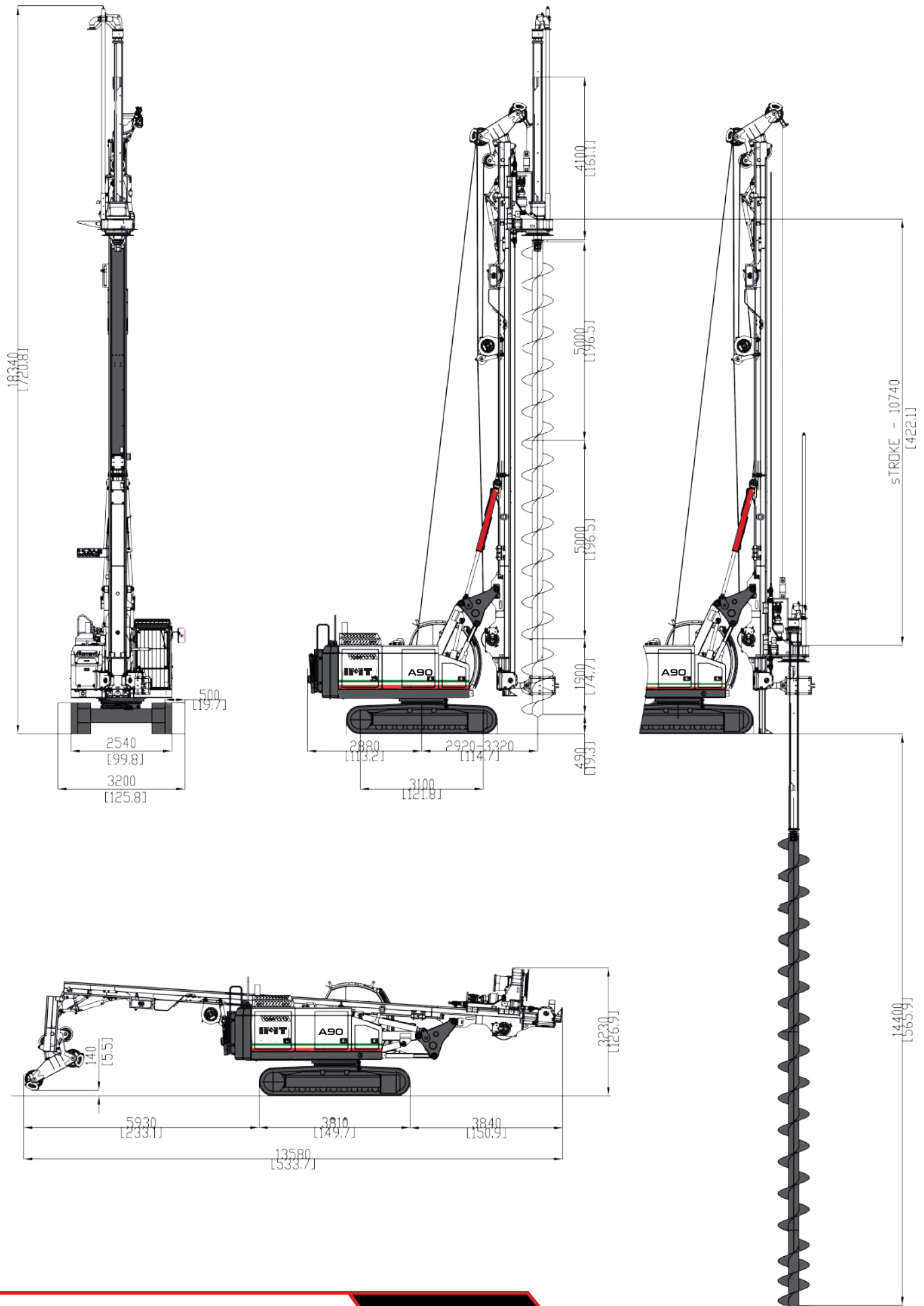
A90 CFA - Hydraulic Drill Rig

Technical specifications

Crowd System		
Pushing nominal force (optional)	kN	25
	lbf	5620
Pulling nominal force	kN	200
	lbf	44960
Max push / pull speed	m / min	30/30
	ft / min	58/98
Rotary stroke	mm	11700
Main winch cable diameter	mm	20
Drilling depth maximum w/o auger extension	m	11,2
	ft	36,8
Drilling depth maximum w auger extensions	m	15,3
	ft	50,1
Auxiliary winch		
Auxiliary winch nominal pull force	kN	35
	lbf	7870
Auxiliary winch speed diameter	m/min	35
	ft/min	110
Auxiliary winch cable diameter	mm	12
	in	/
Pile max diameter	mm	600
	in	24
Operating Weight without auger	t (metric)	26
	lbs	57400

A90 - Hydraulic Drill Rig

CFA Combined Line Pull



A90 CFA - Hydraulic Drill Rig

Technical specifications

Crowd System		
Pushing nominal force	kN	120
	lbf	26980
Pulling nominal force	kN	220
	lbf	49500
Max push / pull speed	m / min	35/35
	ft / min	114
Rotary stroke	mm	10740
Main winch cable diameter	mm	20
Drilling depth maximum w/o auger extension	m	10,3
	ft	33,8
Drilling depth maximum w auger extensions	m	14,4
	ft	47,2
Auxiliary winch		
Auxiliary winch nominal pull force	kN	35
	lbf	7870
Auxiliary winch speed diameter	m/min	35
	ft/min	110
Auxiliary winch cable diameter	mm	12
	in	/
Pile max diameter	mm	600
	in	24
Operating Weight without auger	t (metric)	26
	lbs	57320

A 90 - Hydraulic Drill Rig



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Worldwide sales and assistance network



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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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