



AF135

hydraulic drill rig



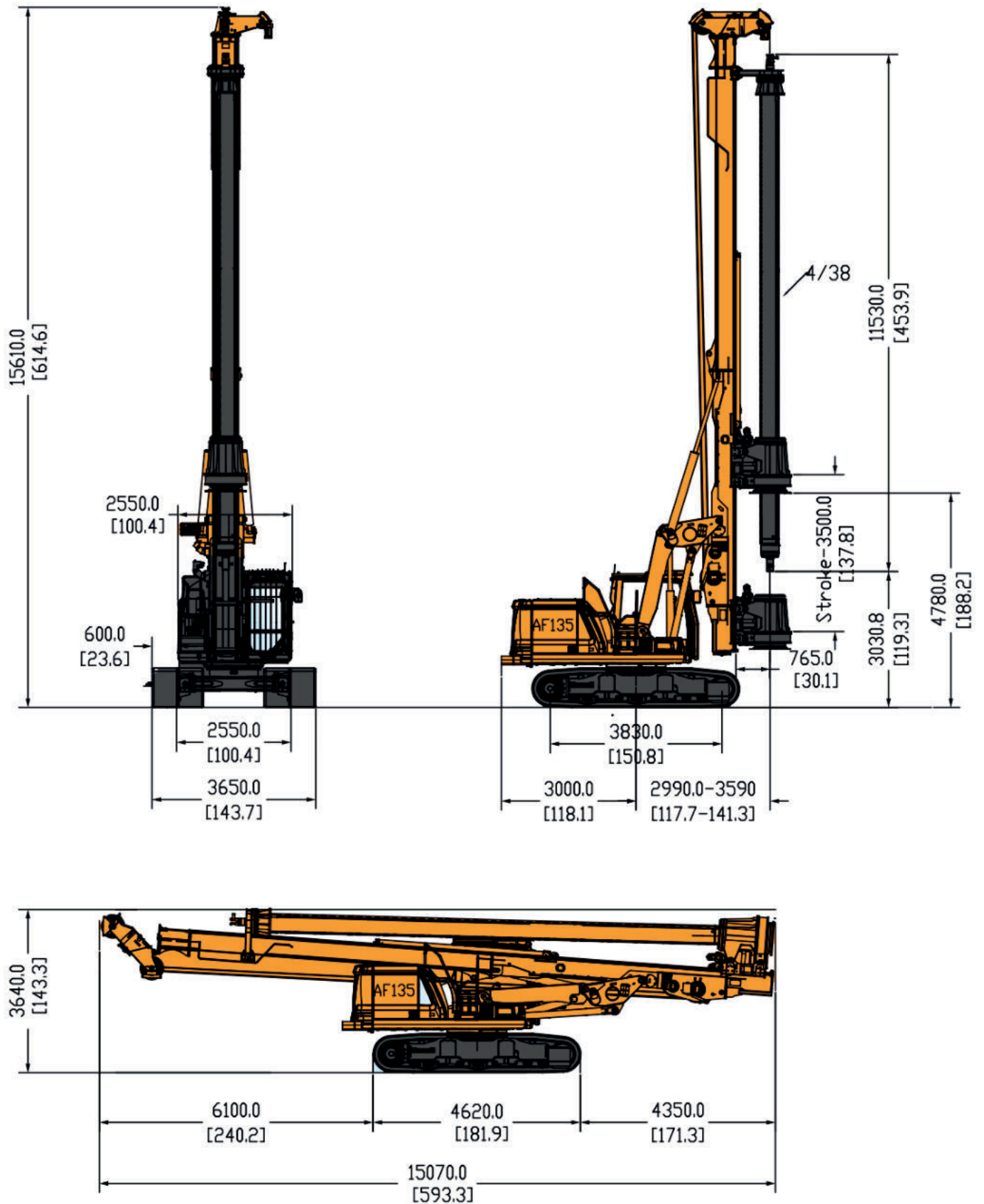
AF135

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 AF drill rigs. This new line is unique in its simplicity and flexibility of use, while also perfectly maintaining sturdiness and productivity. The AF135 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 heavyduty undercarriage guarantees optimal stability in various working conditions and configurations.



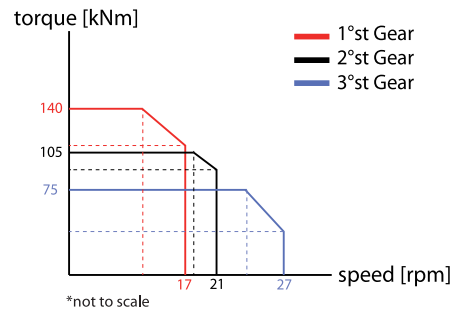
AF135 - Hydraulic Drill Rig

Crowd cylinder version



AF 135 Crowd Cylinder

Rotary		
Nominal torque	kNm	140
	lbf ft	104000
Min. Working speed	rpm	17
Max. Working speed	rpm	27
Min. Discharge speed	rpm	78
Max. Discharge speed	rpm	91



Winches		
Main winch pull force	kN	140
	lbf	31470
Main winch speed	m/min	80
	ft/min	262
Main winch cable diameter	mm	22
	in	/
Auxiliary winch pull force	kN	60
	lbf	13490
Auxiliary winch speed	m/min	40 m/n
	ft/min	131
Auxiliary winch cable diameter	mm	15
	in	/

Crowd System		
Kelly crowd push	kN	100
	lbf	22485
Kelly crowd pull	kN	165
	lbf	37095
Stroke (mm)	mm	3500
	in	138

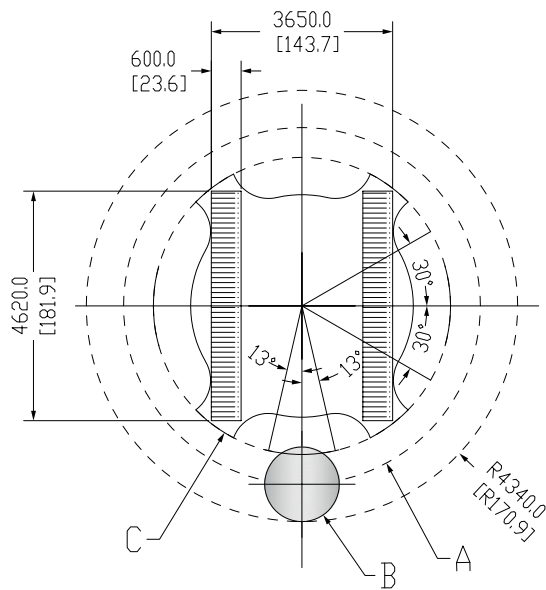
Base		
CAT 323 NGH		
Undercarriage length / widening range / shoe	mm	CAT 4620 / 2550 - 3650 / 600
	in	181 / 100 - 144 / 23,6
Engine type		CAT C 4,4 STAGE V
		129 KW (173 HP) @1650 rpm
Oil tank capacity	l	115
Oil fuel capacity	l	267

Mast		
Mast raking forward	degree	5°
Mast side raking	degree	±5°
Mast raking backwards	degree	15°
Pile max diameter	mm	1500
	in	60

Kelly bar		
Standard		4/38
Options available		3/27- 4/30 - 5/47
Operating Weight w/standard kelly bar	t (metric)	39,5
	lbs	89290

AF135 - Hydraulic Drill Rig

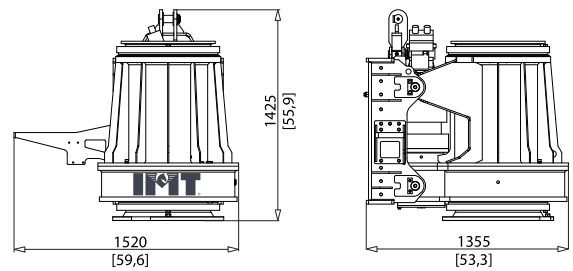
Working area AF135 crowd cylinder



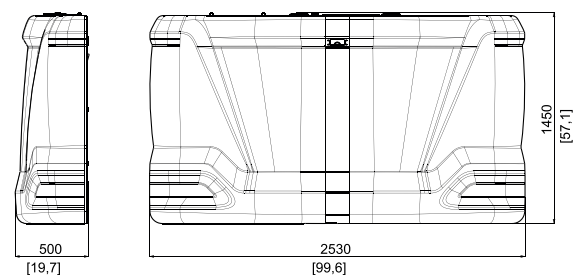
A	MAX WORKING RADIUS 3590 [R 141,3]
B	MAX TOOL DIAMETER $\varnothing$ 1500 [R 59]
C	MIN WORKING RADIUS 2990 [R 117,7]

Removable parts for transport phase

Rotary Weight = 2,4 ton



Counterweight Weight = 4,2 ton



Equipment

- STANDARD EQUIPMENT -

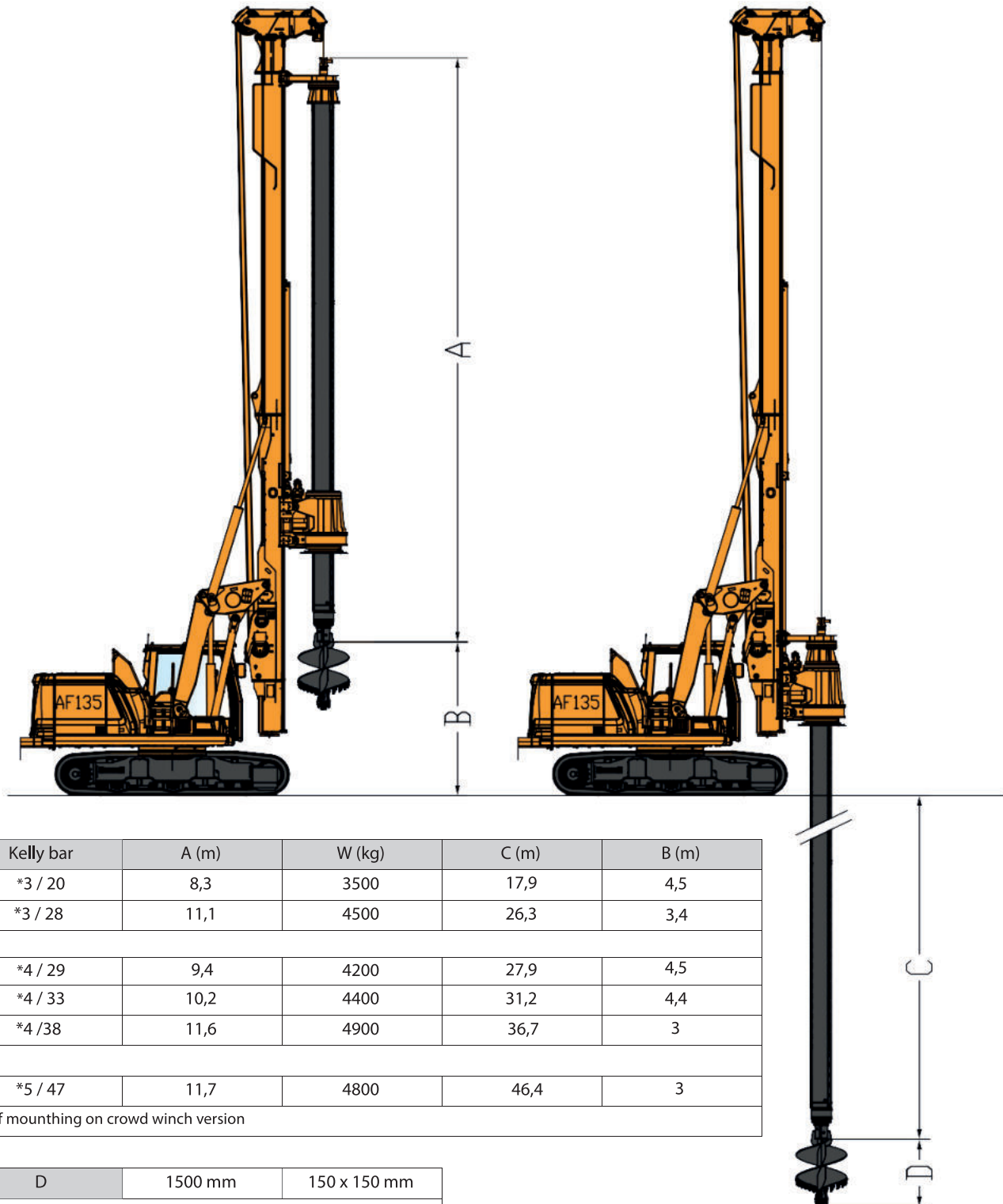
- Air conditioner
- Neutral lever (lock out) for all control
- Guard cab front
- Guard cat top
- Top cabin working lights
- Fuel refill pump
- Engine diagnostic system
- Main and auxiliary load sensing circuit
- Free flow during drilling phase
- Automatic bottom hole stop
- Depth measuring device on main winch
- Mast inclination measurement
- Kelly bar interlocking 4/38
- Rear camera / Lateral camera
- "Y" Shape derrick
- 360° machine top view

- OPTIONAL EQUIPMENT-

- Biodegradable oil
- Crowd winch kit
- CFA kit
- Grab kit
- Vibro displacement kit
- Universal joint kit
- Every kind of Kelly bar
- Automatic greasing system
- 1,2 m Mast extension
- Remote controlo for tracks and boom
- GPS kit
- Openable A-frame for LCA version

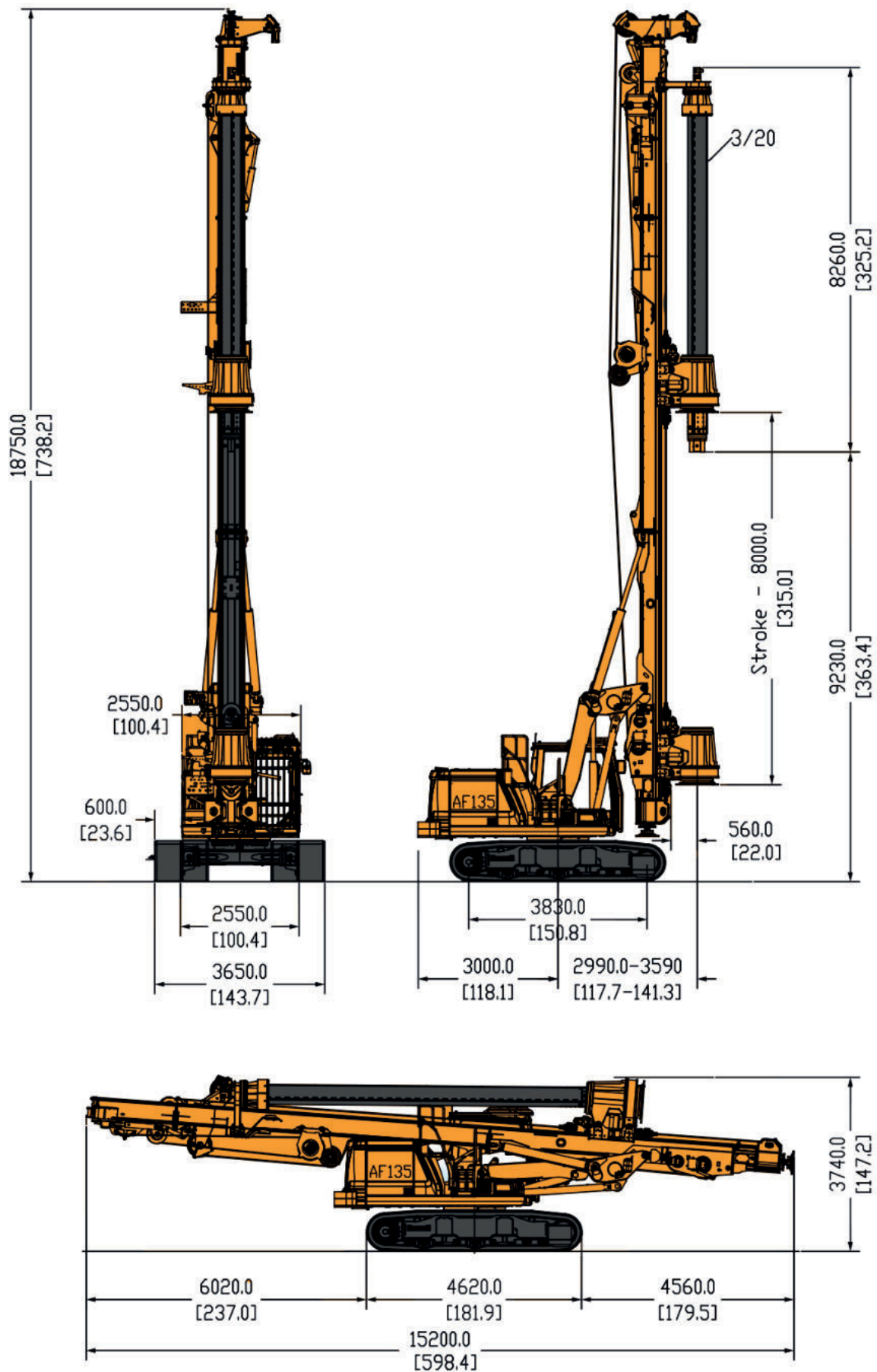
AF135 - Hydraulic Drill Rig

Kelly Bar Standard version



AF135 - Hydraulic Drill Rig

Crowd winch version



Winch Crowd System

Kelly crowd push	kN	190
	lbf	40470
Kelly crowd pull	kN	190
	lbf	40470
Stroke w/ kb 3/20 (mm)	mm	8000
	in	315
Max Stroke (mm)	mm	13000
	in	512

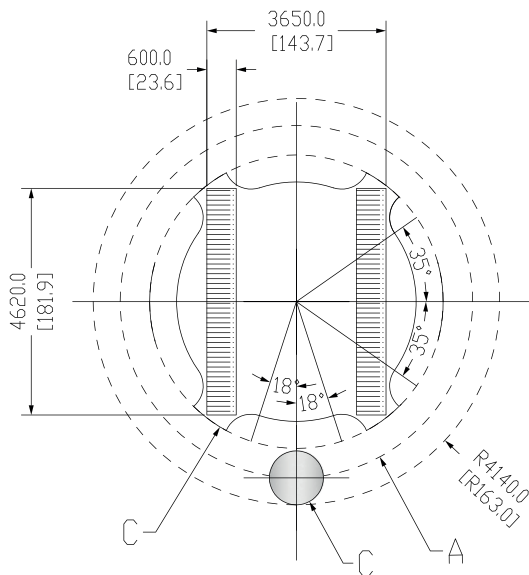
Mast

Pile max diameter	mm	1300
	in	52

Kelly bar

Standard		3/20
Operating Weight w/standard kelly bar (3/20)	t (metric)	39,5
	lbs	87090

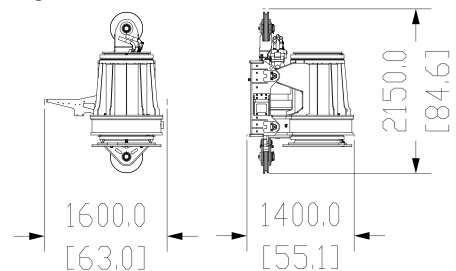
Working area crowd winch



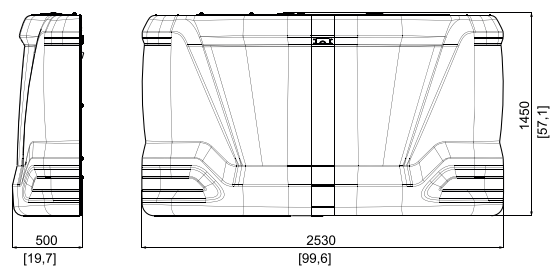
- | | |
|----------|-----------------------------------|
| A | MAX WORKING RADIUS 3590 [R 141,3] |
| B | MAX TOOL DIAMETER 1100 [Ø 43] |
| C | MIN WORKING RADIUS 2990 [Ø 117,7] |

Removable parts for transport phase

Rotary Weight = 2,6 ton

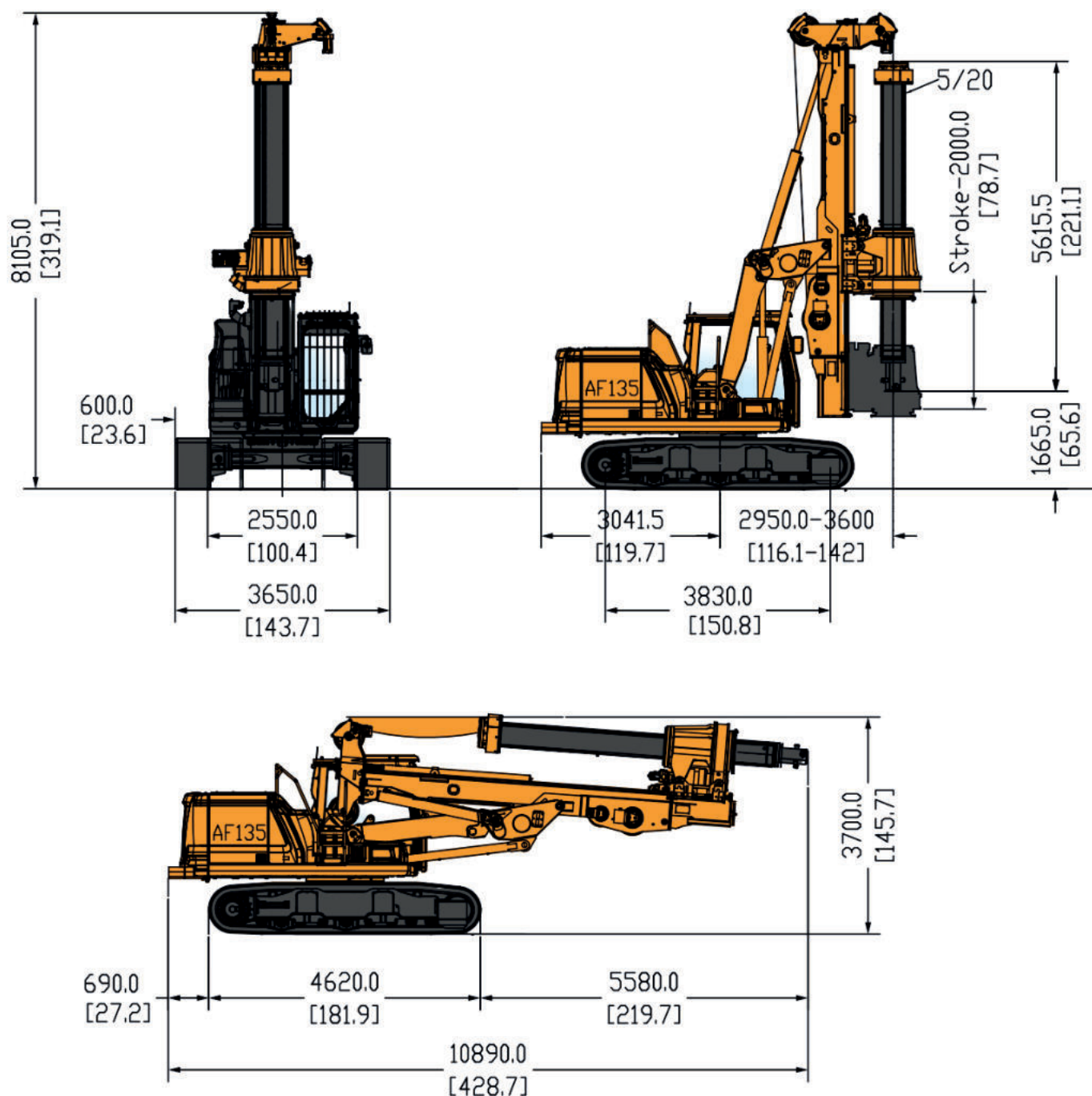


Counterweight Weight = 4,2 ton



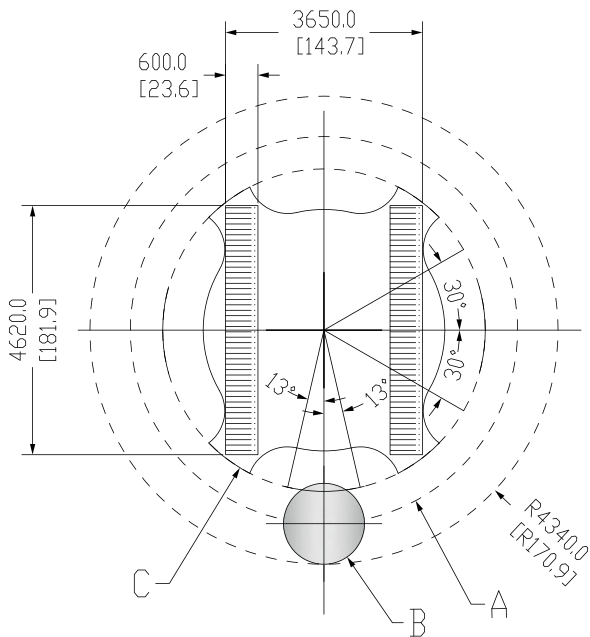
AF135 - Hydraulic Drill Rig

LCA version

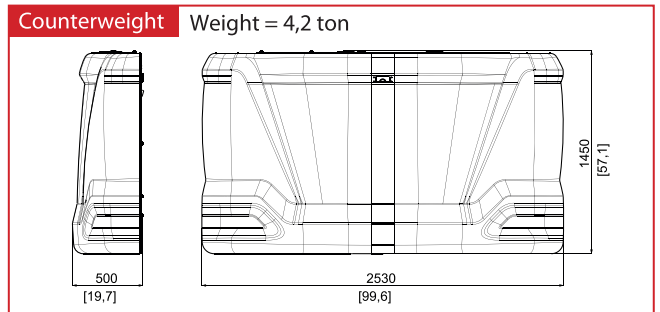
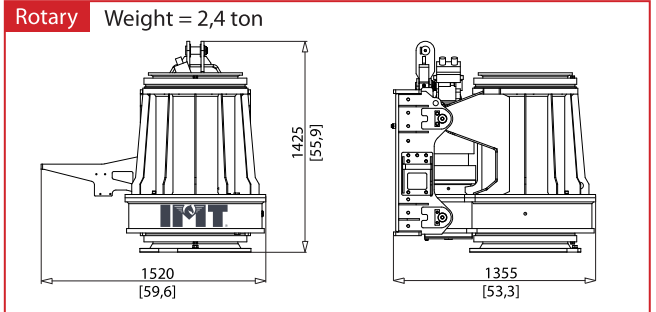


Working area LCA

Removable parts for transport phase



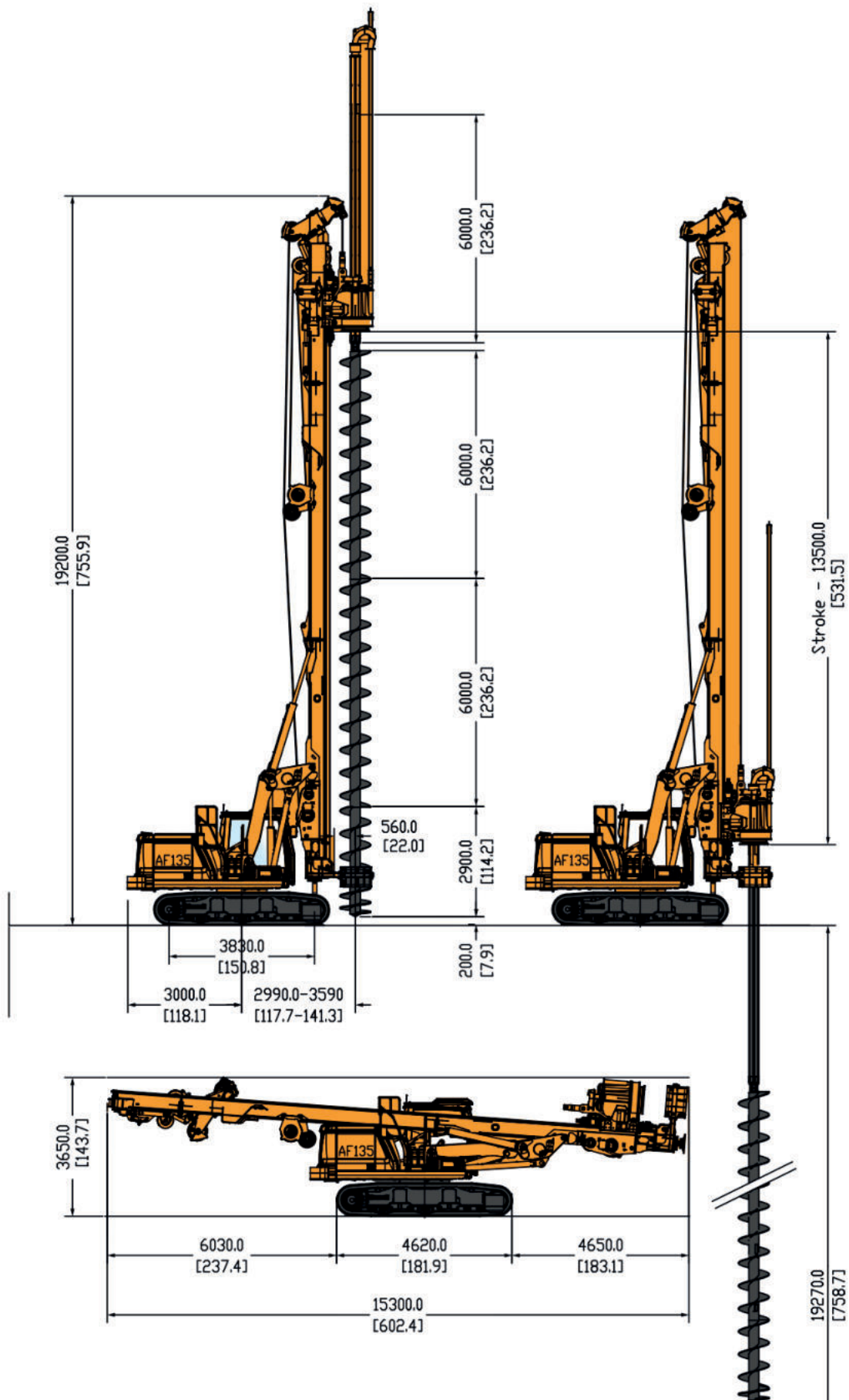
- A** MAX WORKING RADIUS 3590 [R 141,1]
- B** MAX TOOL DIAMETER $\phi 1500$ [R 59]
- C** MIN WORKING RADIUS 2990 [R 117,7]



Cylinder Crowd System		
Kelly crowd push	kN	100
	lbf	22485
Kelly crowd pull	kN	165
	lbf	37095
Stroke	mm	2000
Mast		
Pile max diameter	mm	1500
Kelly bar		
Standard		5/20
Options available		5/15
Operating Weight w/standard kelly bar (5/20)	t (metric)	37
	lbs	81570

AF135 - Hydraulic Drill Rig

CFA version combined line pull

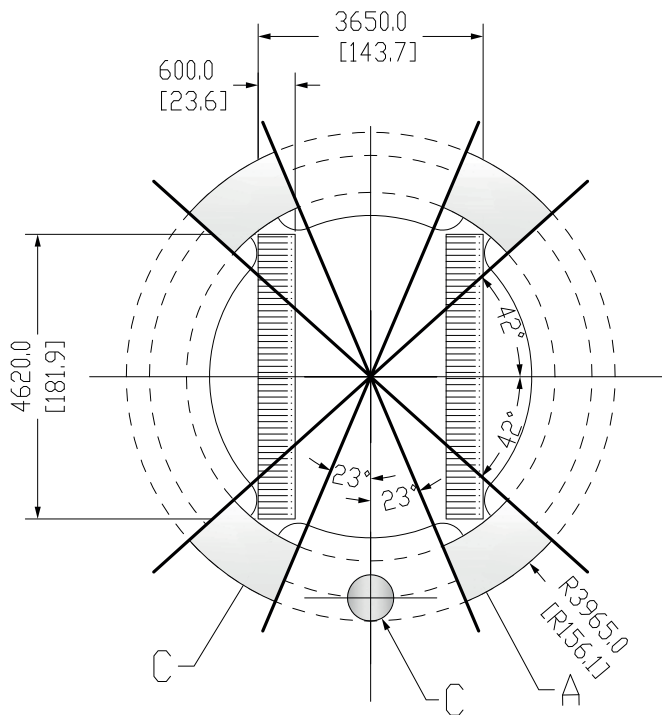


Rotary		
Installed torque	kNm	140
	lbf	103258
Min. working speed	rpm	17
Max. working speed	RPM	27
Crowd system		
Pushing	kN	180
	lbf	40470
Pulling force	kN	330
	lbf	77500
Max push/pull speed	m/min	15/15
Rotary stroke	mm	13500
	in	531,5
Pull cable diameter	mm	22
	in	/
Drilling depth maximum w/o auger extension	m	13,3
	ft	43,6
Drilling depth maximum w auger extension	m	19,3
	ft	63,3
Mast		
Mast raking forward	degree	5°
Mast side raking	degree	±5°
Mast raking backwards	degree	15°
Pile max diameter	mm	750
	in	30
Operating weight w/o auger	t (metric)	38,5
	lbs	84880

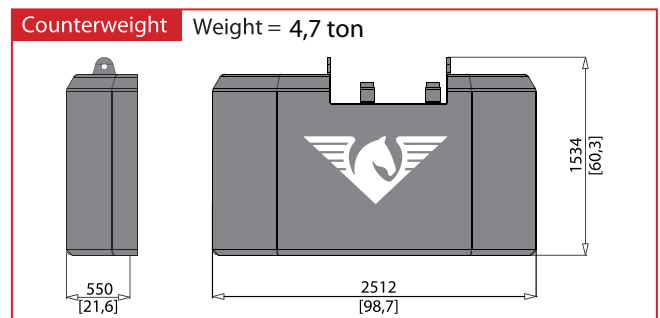
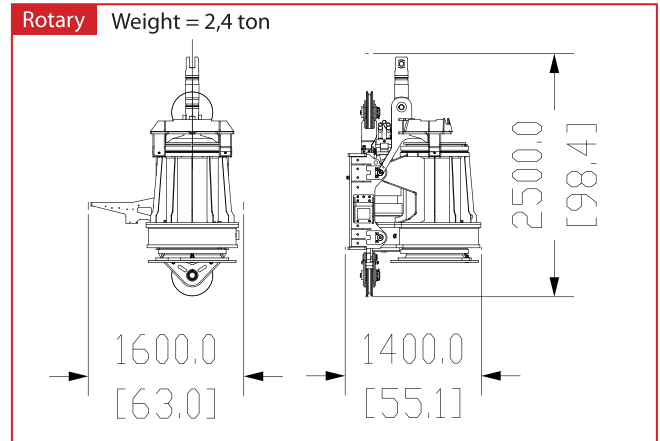
AF135 - Hydraulic Drill Rig

Working area CFA version
combined line pull

Removable parts for transport phase



A	MAX WORKING RADIUS 3590 [R 141,,3]
B	MAX TOOL DIAMETER $\varnothing$ 750 [$\varnothing$ 25,4]
C	MIN WORKING RADIUS 2990 [R 117,7]

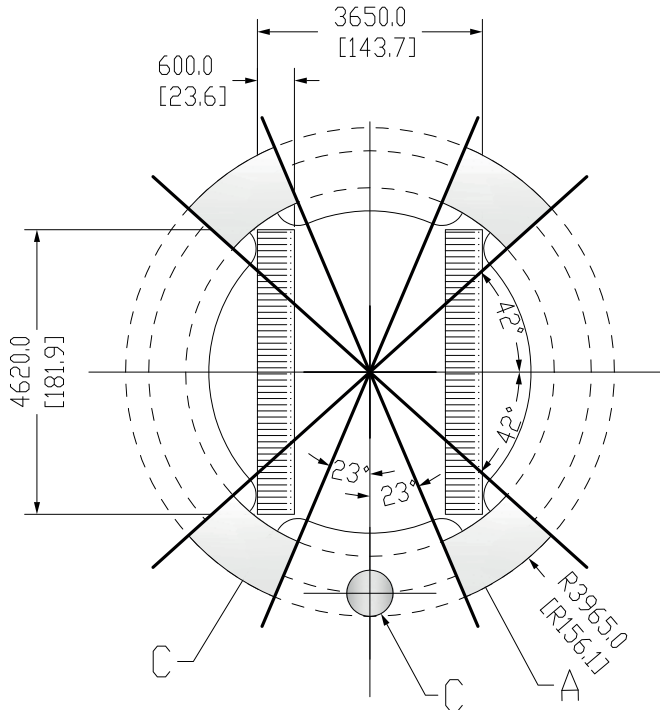


CFA version 4° line pull

Rotary		
Installed torque	kNm	140
	lbf	103258
Min. working speed	rpm	17
Max. working speed	RPM	27
Crowd system		
Pushing (force optional)	kN	40
	lbf	9000
Pulling force	kN	380
	lbf	83700
Max push/pull speed	m/min	15/15
Rotary stroke	mm	14200
	in	559
Pull cable diameter	mm	22
	in	/
Drilling depth maximum w/o auger extension	m	13.8
	ft	49,7
Drilling depth maximum w auger extension	m	19.8
	ft	65
Mast		
Mast raking forward	degree	5°
Mast side raking	degree	±5°
Mast raking backwards	degree	15°
Pile max diameter	mm	750
	in	30
Operating weight w/o auger	t (metric)	39,5
	lbs	87100

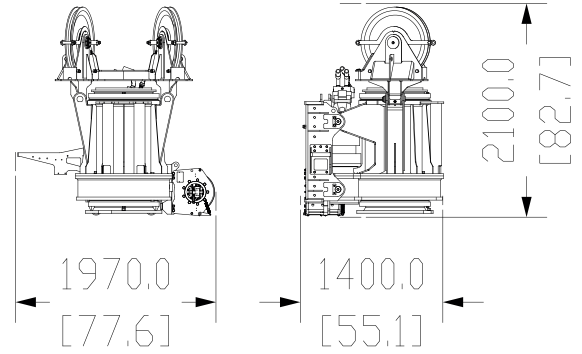
Working area CFA

Technical specifications

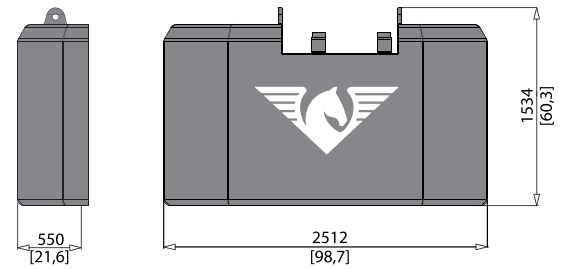


A	MAX WORKING RADIUS 3590 [R 141,3]
B	MAX TOOL DIAMETER $\varnothing 750$ [$\varnothing 25,4$]
C	MIN WORKING RADIUS 2990 [R 117,7]

Rotary Weight = 2,4 ton



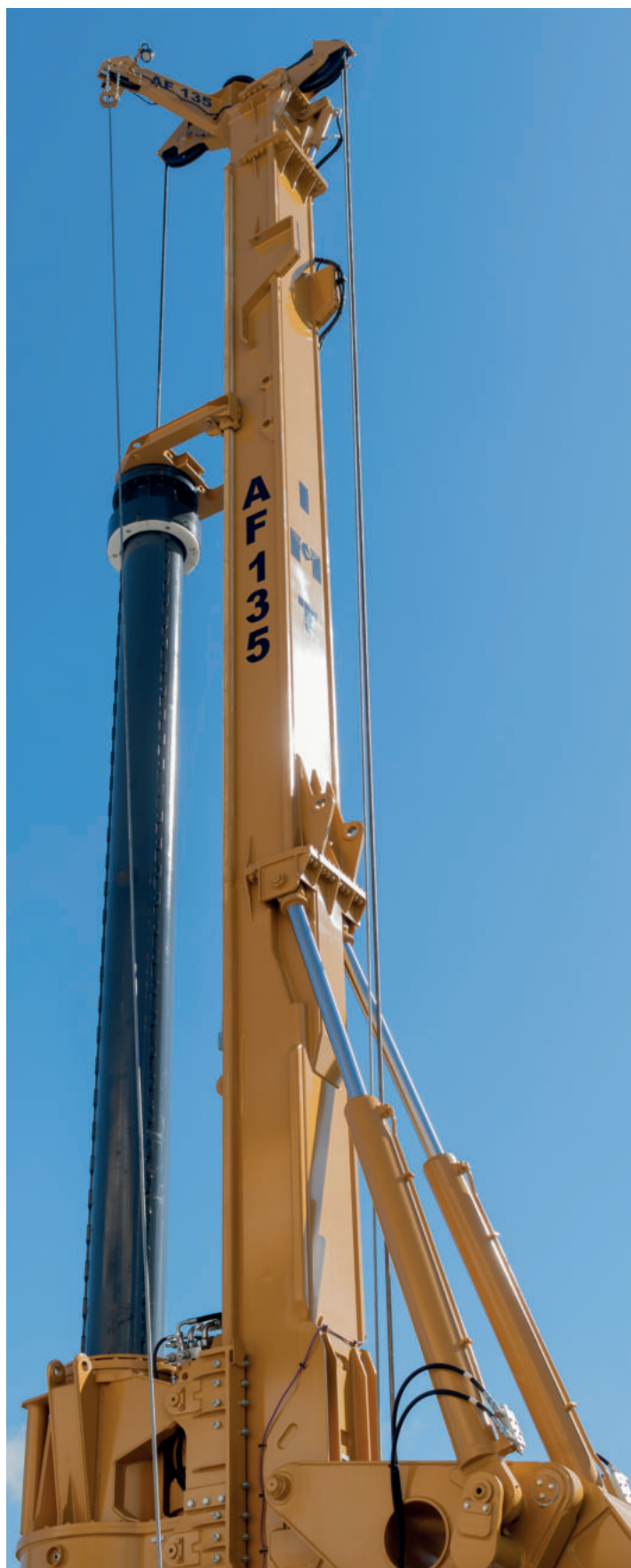
Counterweight Weight = 4,2 ton



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Note



I.M.T. S.r.l. - Industria Meccanica Trivelle
via D'Ancona, 39 60027 Osimo (AN) Italy
Tel. +39 071 723341 - Fax +39 0717 133 352
imt@imtspa.com - www.imtspa.com