



A 140

hydraulic drill rig



A 140

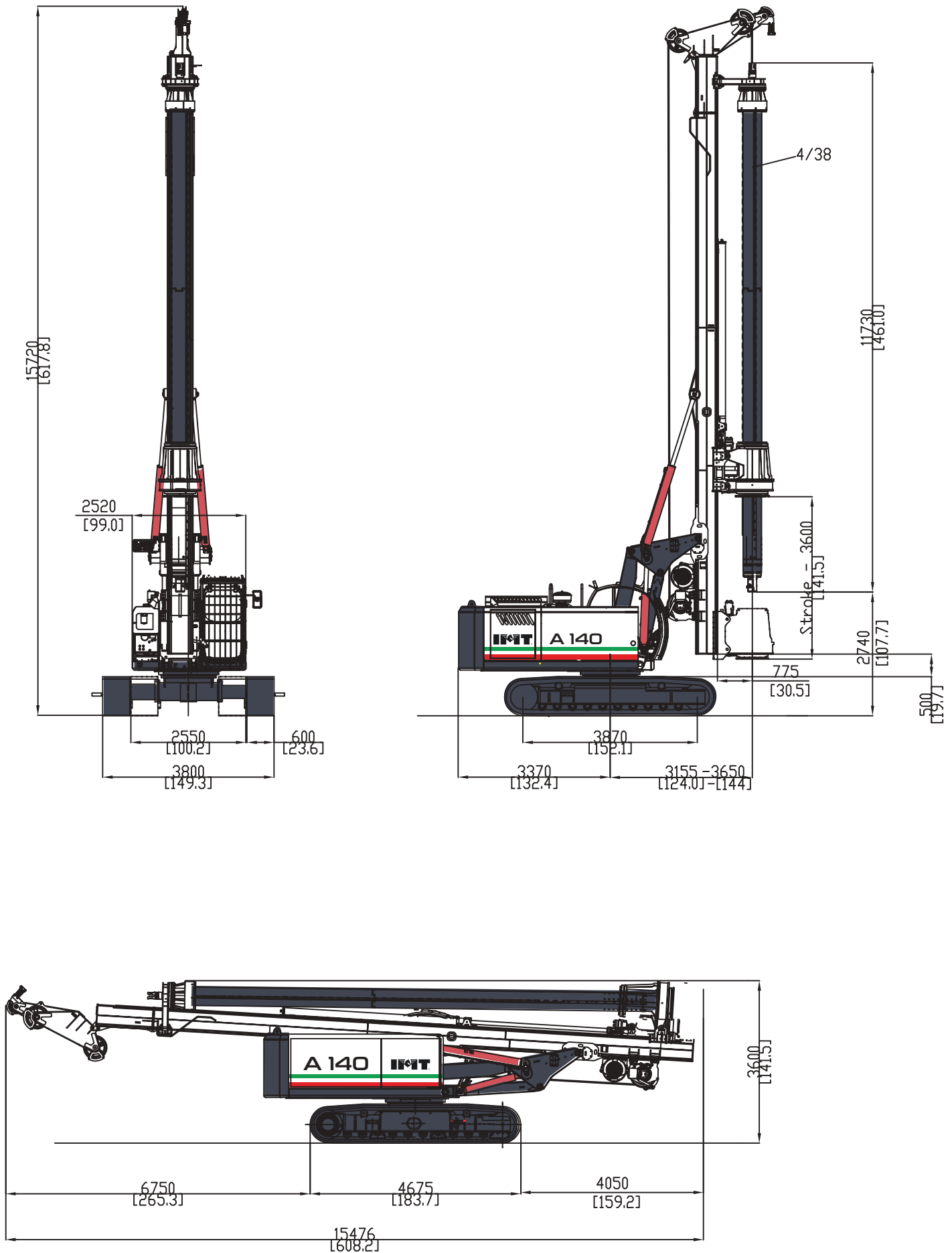
IMT, a global leader in the manufacture of drill rigs and a brand which has always been synonymous with quality and reliability in the pursuit of satisfying market demand, is pleased to present a new series of A drill rigs. This new line is unique in its simplicity and flexibility of use, while also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

The A140 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.



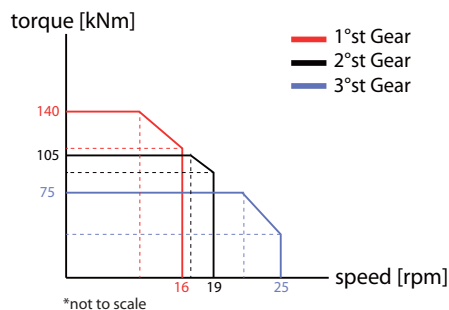
A 140 - Hydraulic Drill Rig

Crowd cylinder version



A140 Crowd Cylinder

Rotary		
Installed torque	kNm	140
	lbf ft	110600
Min. Working speed	rpm	7,5
Max. Working speed	rpm	25
Min. Discharge speed	rpm	45
Max. Discharge speed	rpm	112



Winches		
Main winch pull force	kN	145
	lbf	32600
Main winch speed	m/min	90
	ft/min	295
Main winch cable diameter	mm	22
	in	/
Auxiliary winch pull force	kN	60
	lbf	13490
Auxiliary winch speed	m/min	30 m/n
	ft/min	114
Auxiliary winch cable diameter	mm	15
	in	/

Crowd System		
Kelly crowd push	kN	110
	lbf	24730
Kelly crowd pull	kN	175
	lbf	39345
Stroke (mm)	mm	3600
	in	142

Base		IMT
Undercarriage length / widening range / shoe	mm	4690 / 2550 - 3800 / 600
	in	185 / 100 - 149,3 / 23,6
Engine type		Cummins QSB 6,7 T3/T4
		169 KW (227 HP) @1900 rpm
Oil tank capacity	l	250
Fuel tank capacity	l	290

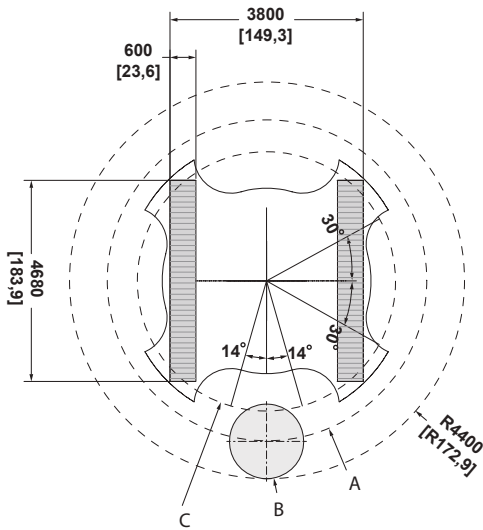
Mast		
Mast raking forward	degree	5°
Mast side raking	degree	±5°
Mast raking backwards	degree	15°
Pile max diameter	mm	1500
	in	60

Kelly bar		
Standard		4/38
Options available		3/27 - 4/33 - 5/47 - 6/57
Operating Weight w/standard kelly bar	t (metric)	39,5
	lbs	85980



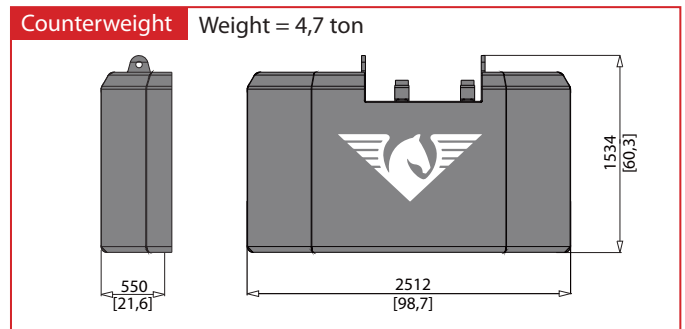
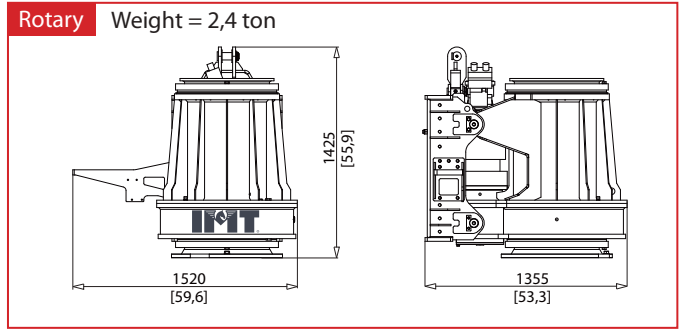
A 140 - Hydraulic Drill Rig

Working area A215 crowd cylinder



A	MAX WORKING RADIUS 3650 [R 143,4]
B	MAX TOOL DIAMETER Ø1500 [R 59]
C	MIN WORKING RADIUS 3155 [R 124]

Removable parts for transport phase



Equipment

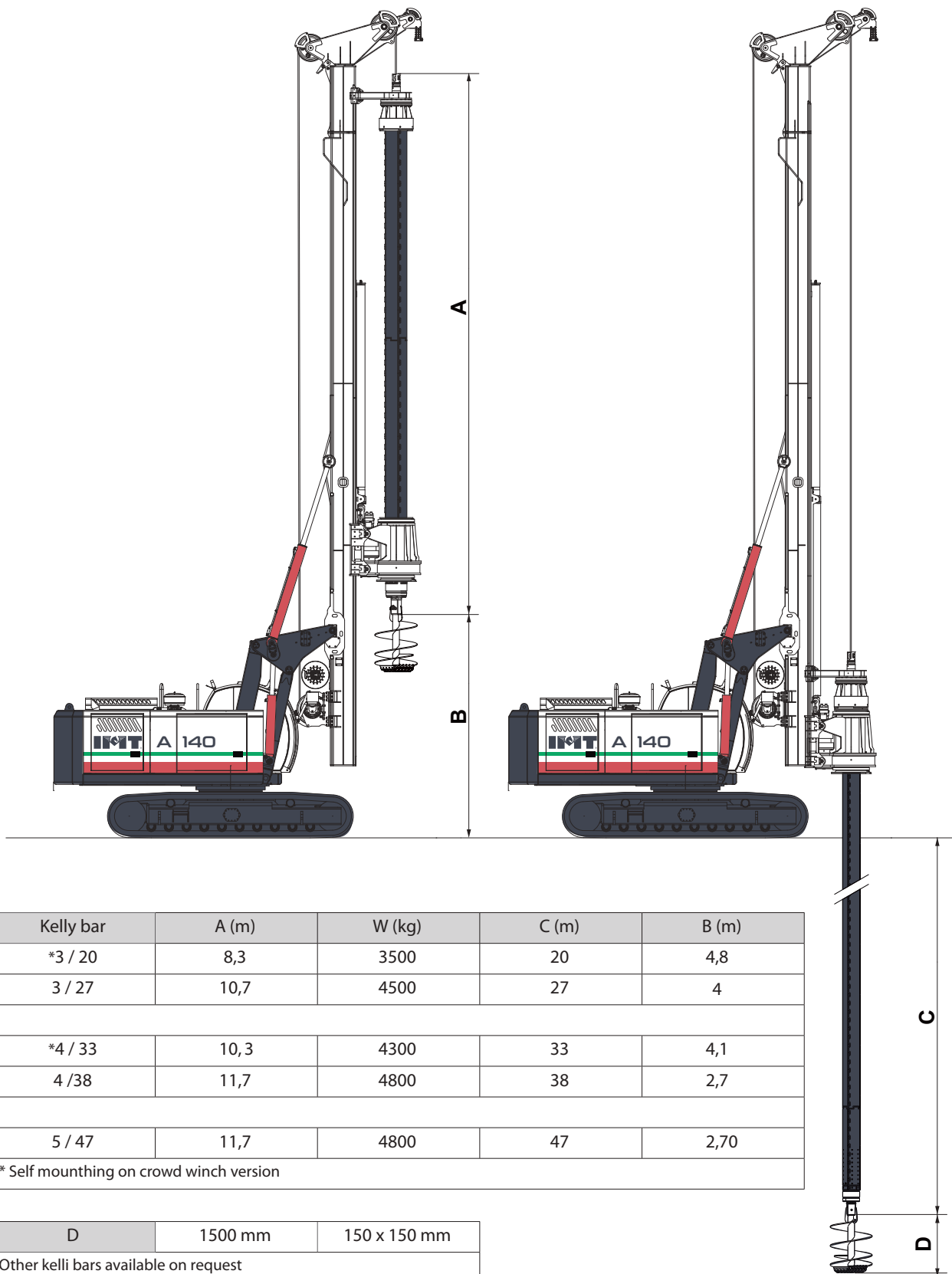
- STANDARD EQUIPMENT -

- 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

- OPTIONAL EQUIPMENT-

- Biodegradable oil
- Rear camera / Lateral camera
- Crowd winch kit
- CFA kit
- Grab kit
- Vibro displacement kit
- Cardanic universal joint kit
- Every kind of Kelly bar
- Tier 4 final / Eu stage V engine
- 1,2 m Mast extension
- "Y" Shape derrick
- GPS kit
- Openable A-frame for LCA version

Kelly bar standard version



3 PARTS

4 PARTS

5 PARTS

Kelly bar	A (m)	W (kg)	C (m)	B (m)
*3 / 20	8,3	3500	20	4,8
3 / 27	10,7	4500	27	4
*4 / 33	10,3	4300	33	4,1
4 / 38	11,7	4800	38	2,7
5 / 47	11,7	4800	47	2,70

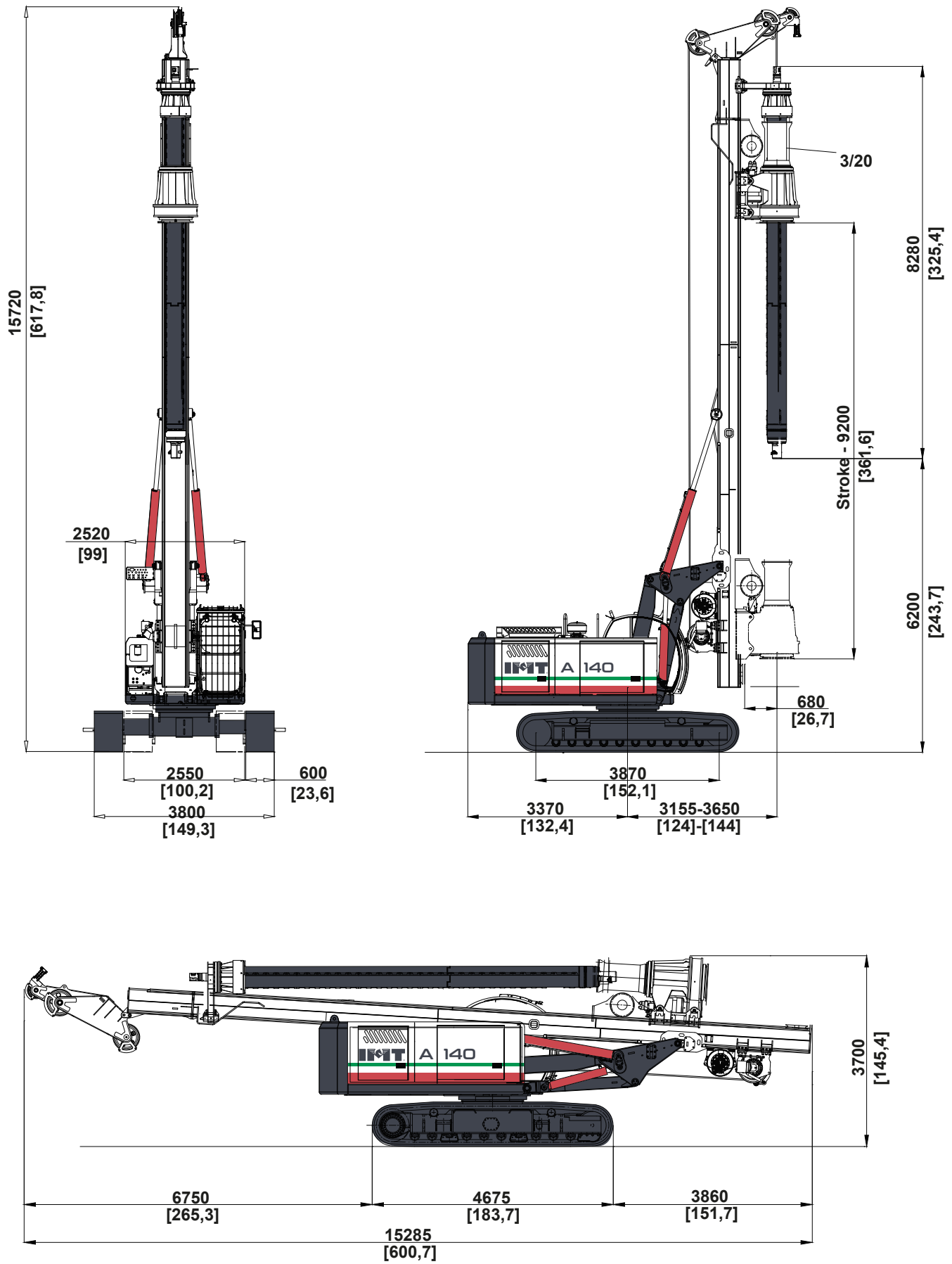
* Self mounthing on crowd winch version

D	1500 mm	150 x 150 mm
Other kelly bars available on request		



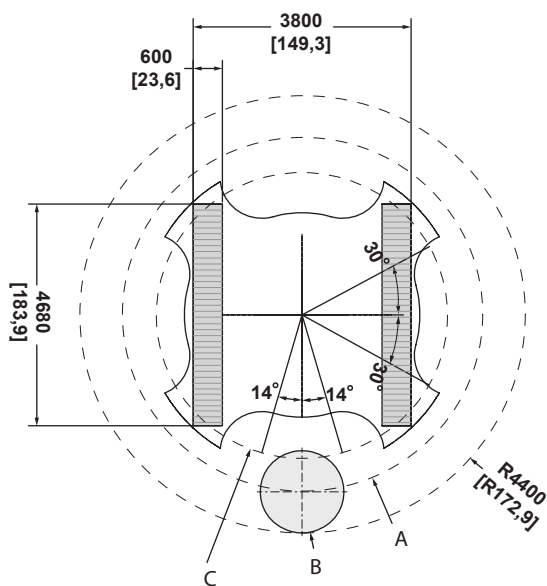
A 140 - Hydraulic Drill Rig

Crowd winch version



Winch Crowd System		
Kelly crowd push	kN	150
	lbf	33725
Kelly crowd pull	kN	150
	lbf	33725
Max stroke (mm)	mm	9200
	in	362
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

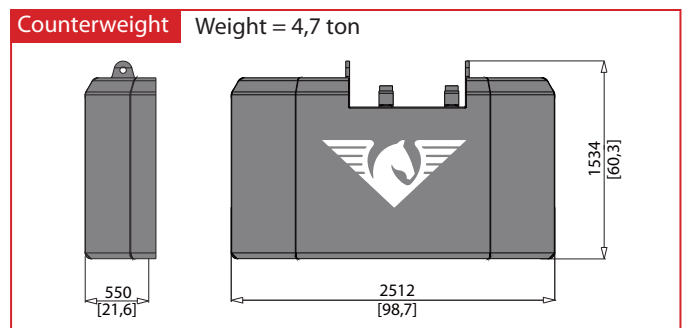
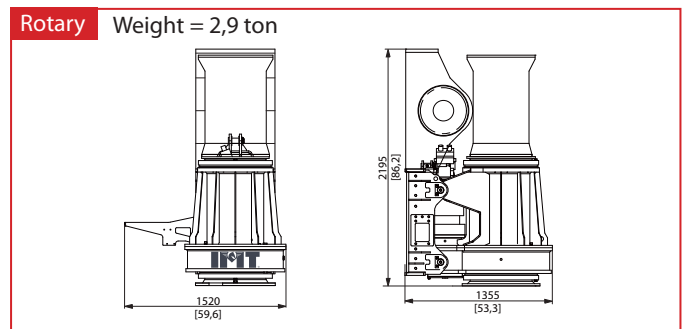


A MAX WORKING RADIUS 3650 [R 143,4]

B MAX TOOL DIAMETER 1500 [ø 59]

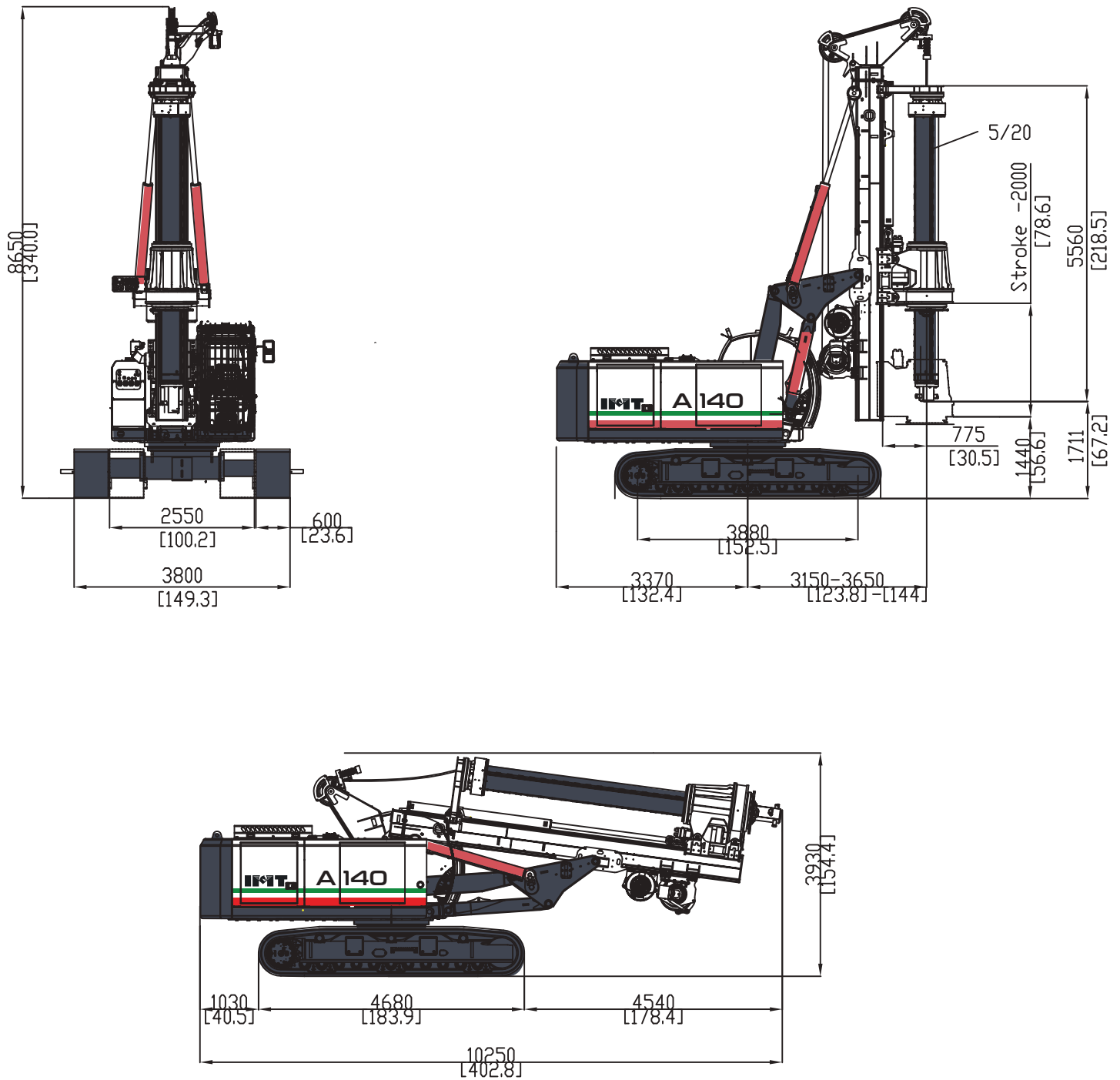
C MIN WORKING RADIUS 3155 [ø 124]

Removable parts for transport phase

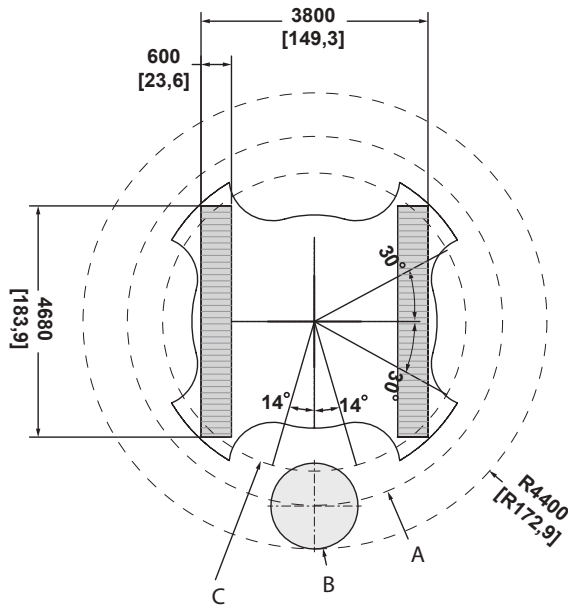


A 140 - Hydraulic Drill Rig

LCA version

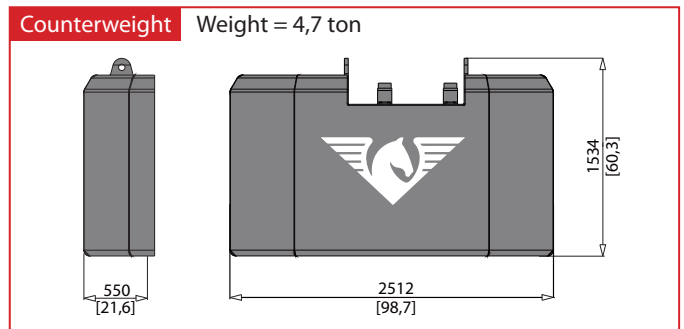
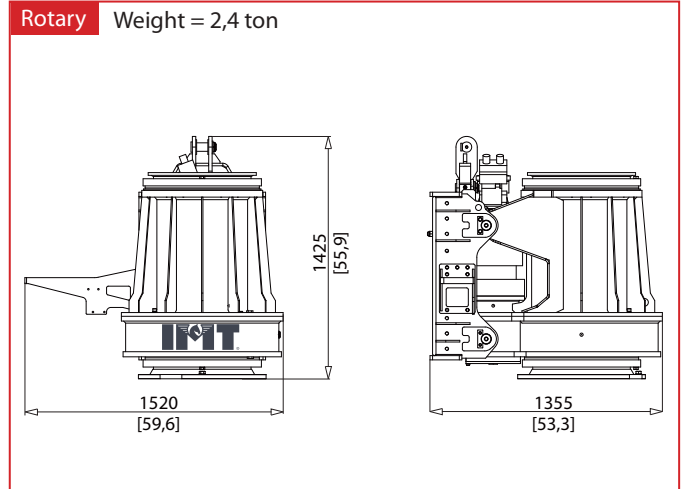


Working area LCA



- A** MAX WORKING RADIUS 3650 [R 143,4]
- B** MAX TOOL DIAMETER 1500 [Ø 59]
- C** MIN WORKING RADIUS 3155 [R 124]

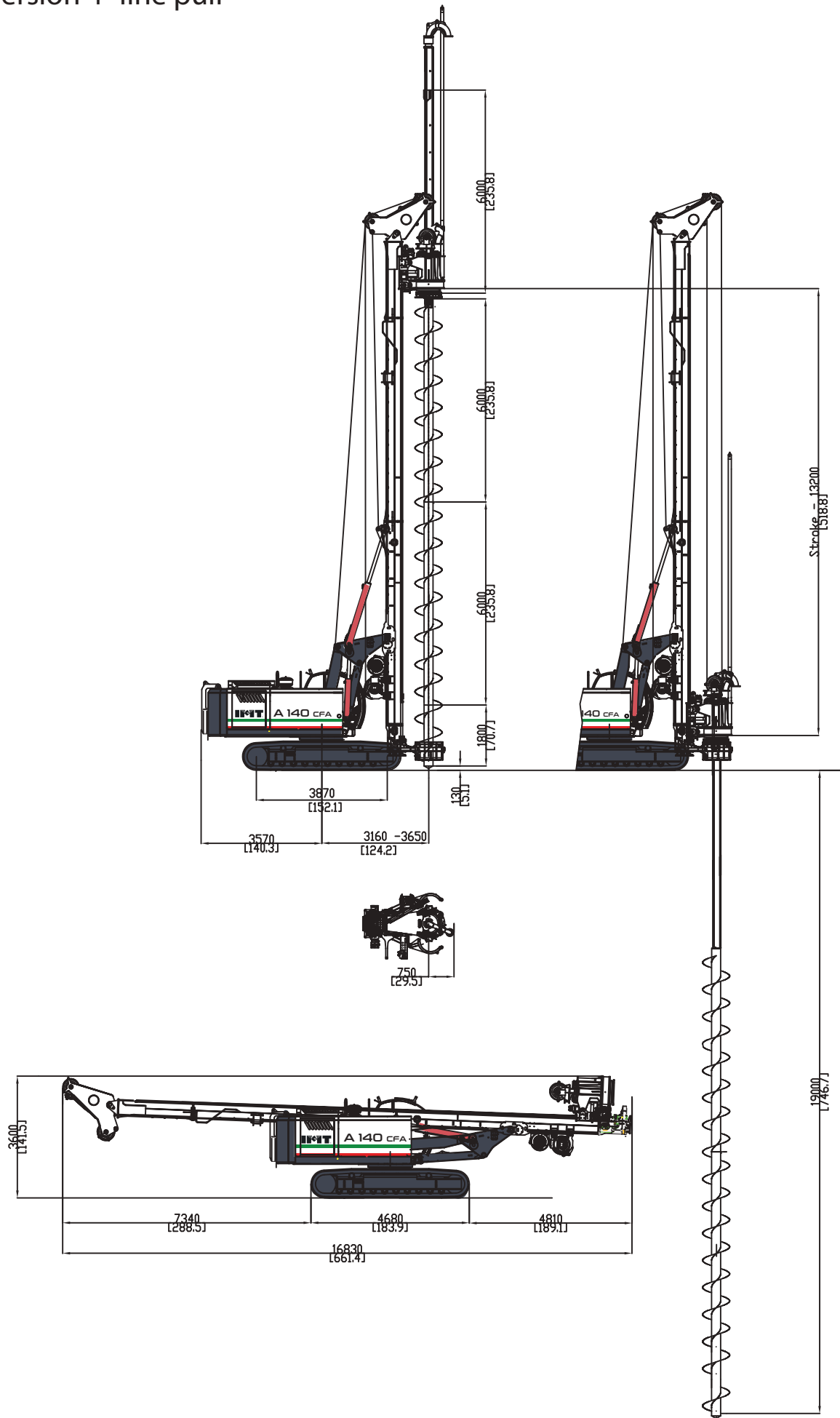
Removable parts for transport phase



Cylinder Crowd System		
Kelly crowd push	kN	110
	lbf	24730
Kelly crowd pull	kN	175
	lbf	39345
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)	36,5
	lbs	80470

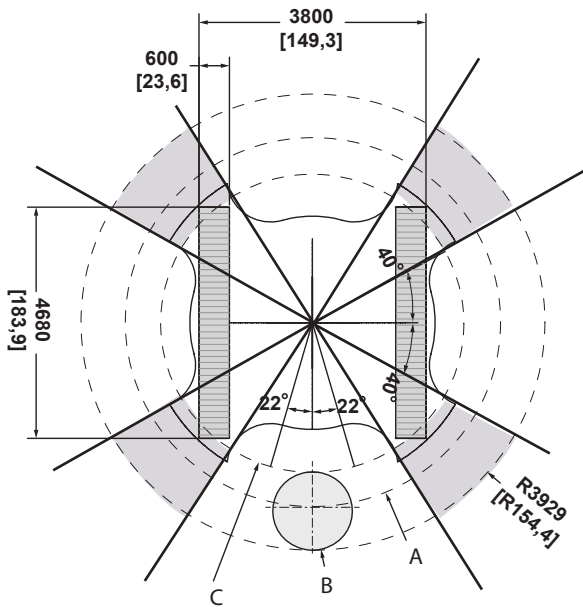
A 140 - Hydraulic Drill Rig

CFA version 4° line pull



Rotary		
Installed torque	kNm	140
	lbf	103258
Min. working speed	rpm	7,5
Max. working speed	RPM	25
Crowd system		
Pushing (force optional)	kN	40
	lbf	9000
Pulling force	kN	380
	lbf	85500
Max push/pull speed	m/min	20/20
Rotary stroke	mm	13200
	in	519
Pull cable diameter	mm	22
	in	/
Drilling depth maximum w/o auger extension	m	13
	ft	42,6
Drilling depth maximum w auger extension	m	19
	ft	62,3
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)	40
	lbs	88200

Working area CFA



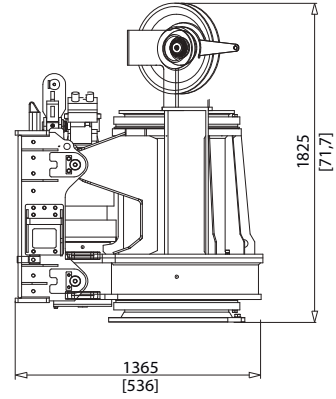
A MAX WORKING RADIUS 3550 [R 139,5]

B MAX TOOL DIAMETER 750 [ø 25,4]

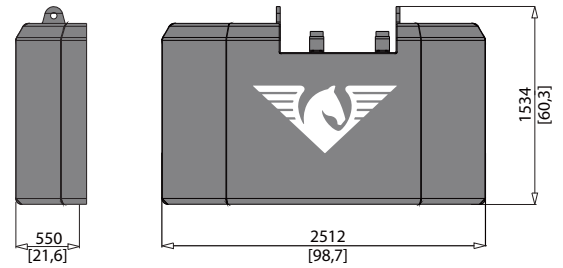
C MIN WORKING RADIUS 3145 [R 123,6]

Removable parts for transport phase

Rotary Weight = 2,7 ton



Counterweight Weight = 4,7 ton



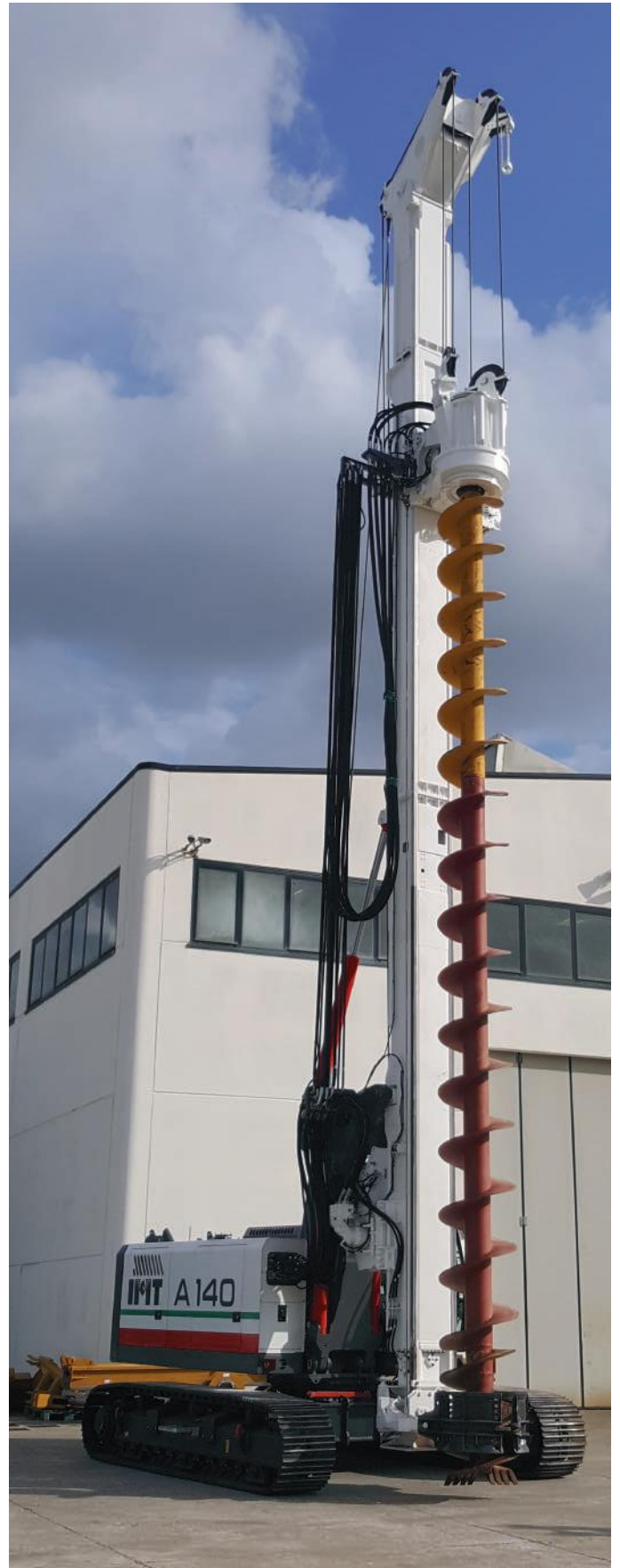


Note

A series of horizontal lines for taking notes, spanning the width of the page.







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.





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

