



# A 290 K

hydraulic drill rig



**INVT.**



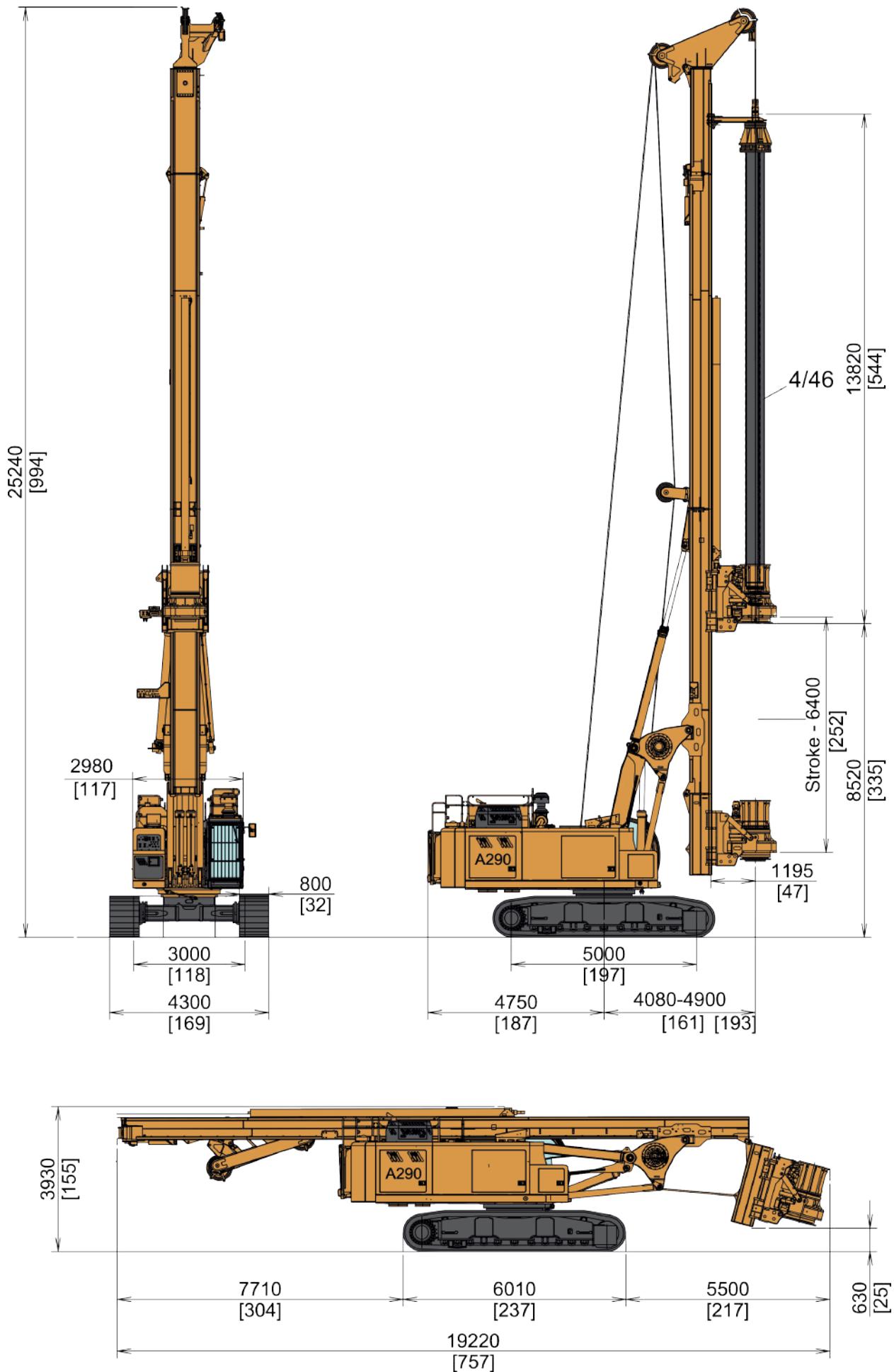
# A 290 K

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 K 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 K - Hydraulic Drill Rig

## Crowd cylinder version

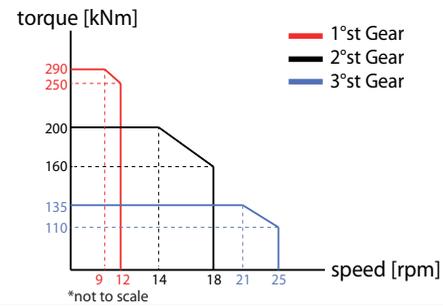


# A 290 K - Hydraulic Drill Rig

## Technical specifications

### A290 K Crowd Cylinder

Rotary		
Nominal torque	kNm	290
	lbf ft	213895
Min. Working speed	rpm	12
Max. Working speed	rpm	23
Min. Discharge speed	rpm	76
Max. Discharge speed	rpm	90



Winches		
Main winch pull force	kN	270
	lbf	60700
Main winch speed	m/min	58
	ft/min	190
Main winch cable diameter	mm	32
	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	340
	lbf	76400
Stroke (mm)	mm	6400
	in	252

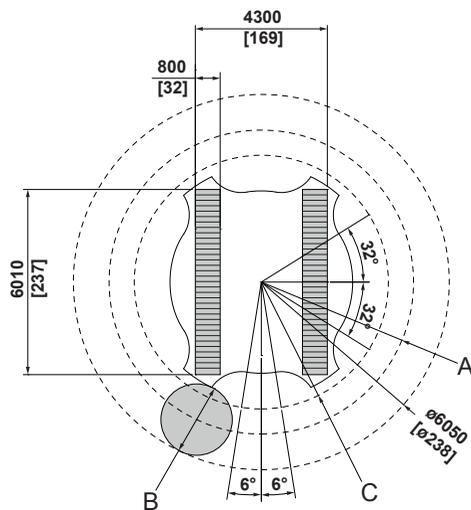
Base		IMT
Undercarriage length / widening range / shoe	mm	6010 / 3000 - 4300 / 800
	in	237 / 118 - 169 / 32
Engine type		CAT C13/T4F STAGE V
		340 KW (462 HP) @ 1800 rpm T4F STAGE V
Oil tank capacity	l	730
Fuel tank capacity	l	640

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		4/30 - 4/52 - 5/50 - 5/66 - 5/75
Operating Weight w/standard kelly bar	t (metric)	84,5
	lbs	186290

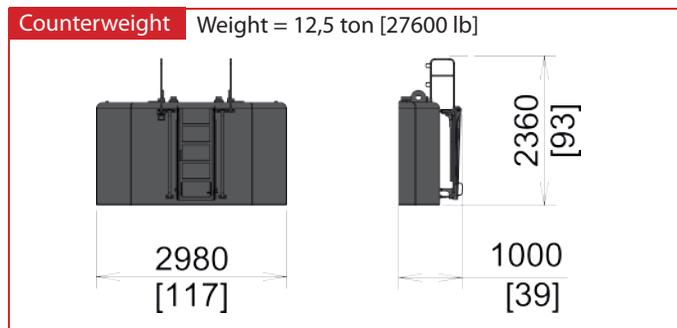
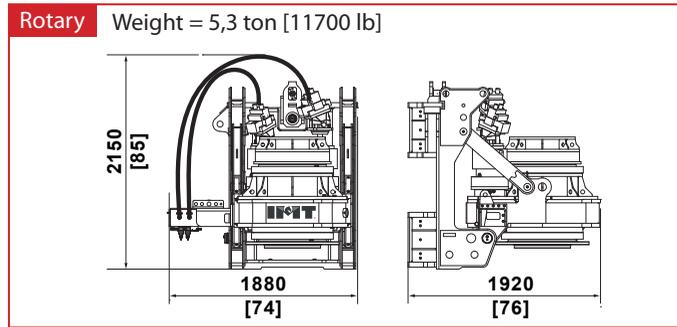
# A 290 K - Hydraulic Drill Rig

## Working area crowd cylinder



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

## Removable parts for transport phase



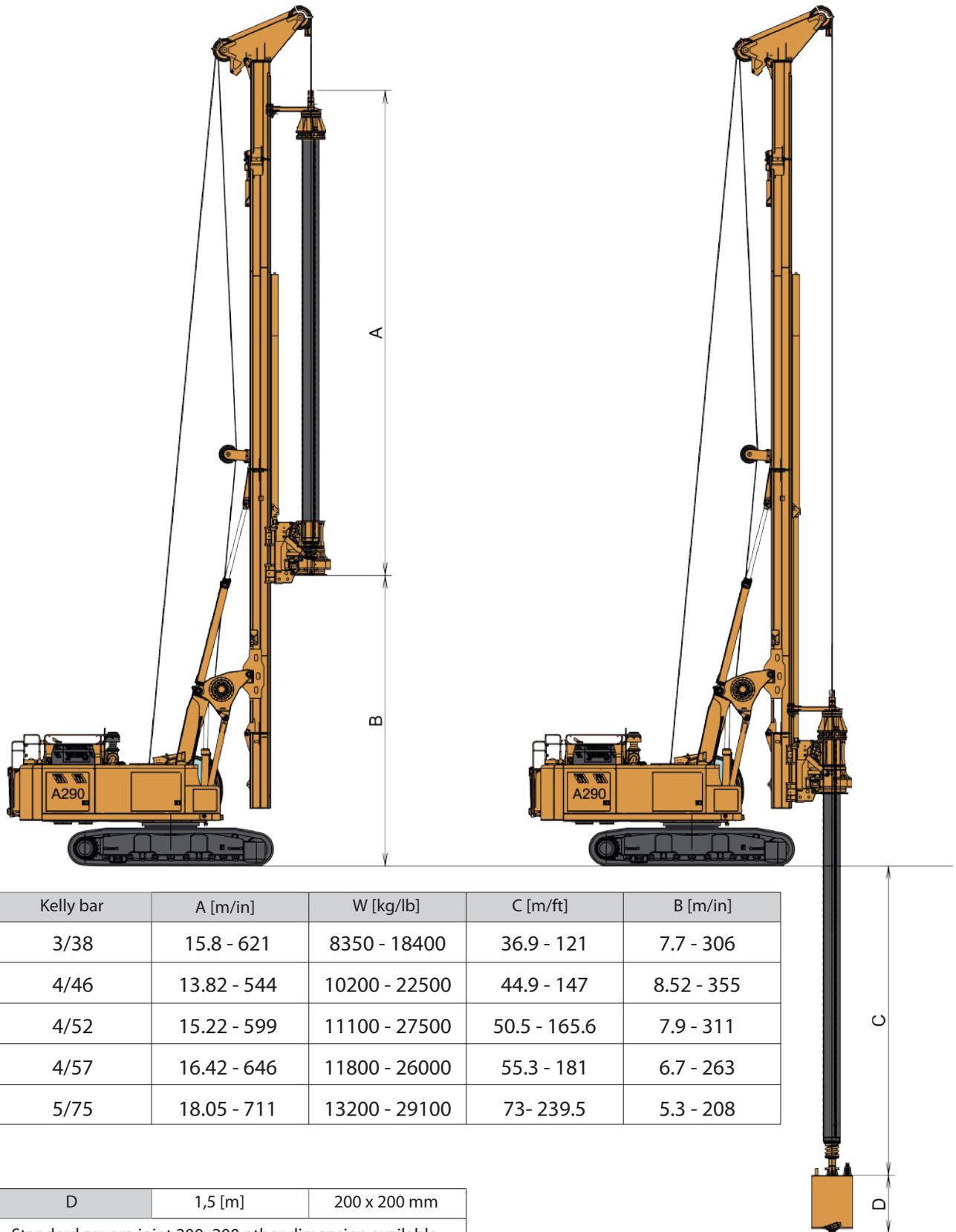
## Equipment

- 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 interlocking 4/46 (46m depth)
Rotary suitable for every kind of kelly bar
Quick coupling connections on crowd cylinder
Main winch camera
Rear / Lateral camera
"Y" shape derrick

- OPTIONAL EQUIPMENT-
Biodegradable oil
Crowd winch kit
CFA kit
Grab kit
Vibro displacement kit
Cardanic universal joint kit
Casing oscillator kit
LCA kit
Every kind of Kelly bar
GPS kit
Mast foot kit
CFA data logger
Remote control for tracks and boom
Automatic greasing system

# A 290 K - Hydraulic Drill Rig

## Kelly bar standard version

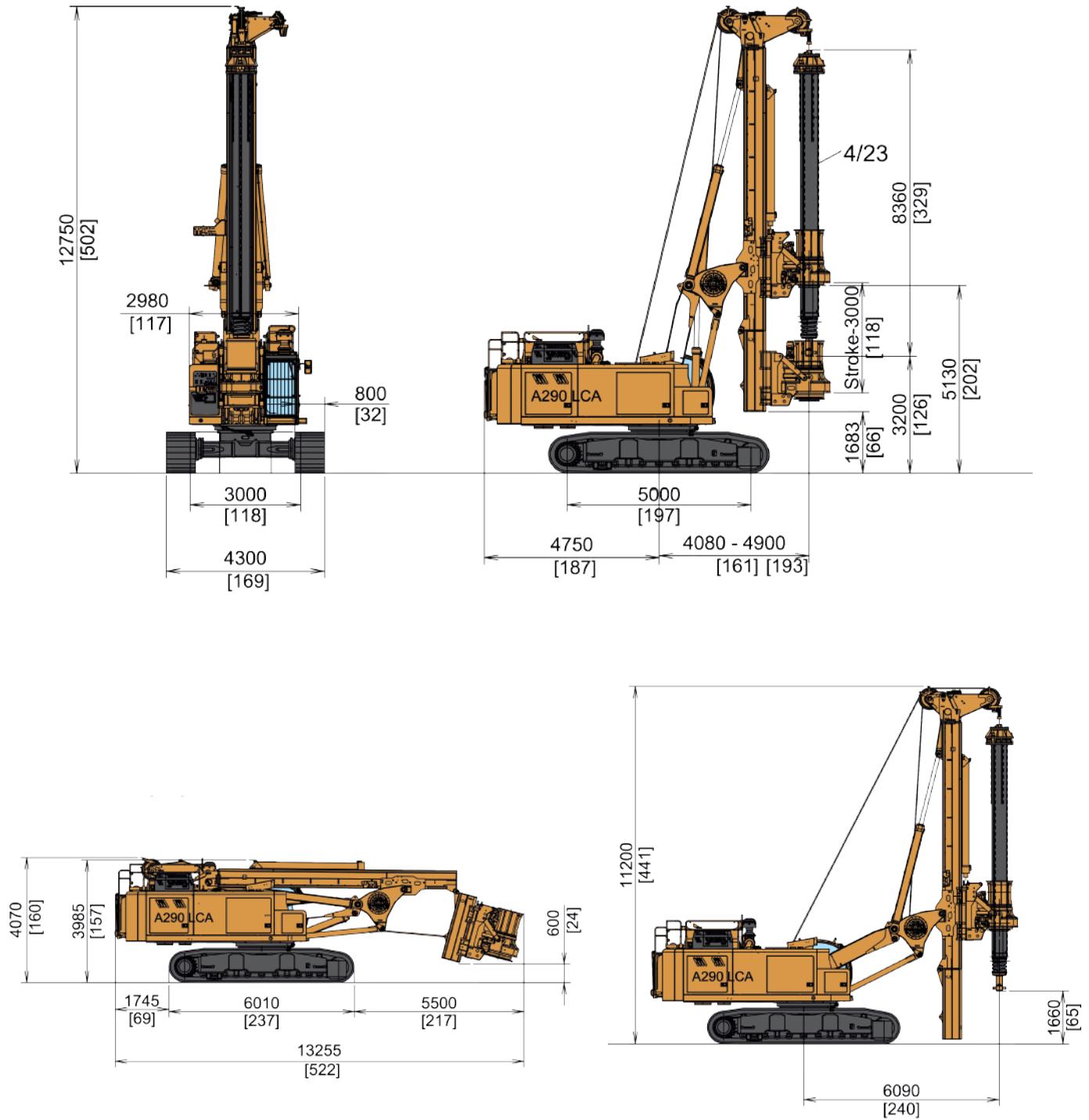


	Kelly bar	A [m/in]	W [kg/lb]	C [m/ft]	B [m/in]
3 SECTIONS	3/38	15.8 - 621	8350 - 18400	36.9 - 121	7.7 - 306
	4/46	13.82 - 544	10200 - 22500	44.9 - 147	8.52 - 355
4 SECTIONS	4/52	15.22 - 599	11100 - 27500	50.5 - 165.6	7.9 - 311
	4/57	16.42 - 646	11800 - 26000	55.3 - 181	6.7 - 263
5 SECTIONS	5/75	18.05 - 711	13200 - 29100	73 - 239.5	5.3 - 208

D	1,5 [m]	200 x 200 mm
Standard square joint 200x200 other dimension available		
Further kelly bars available on request		

# A 290 K - Hydraulic Drill Rig

LCA version

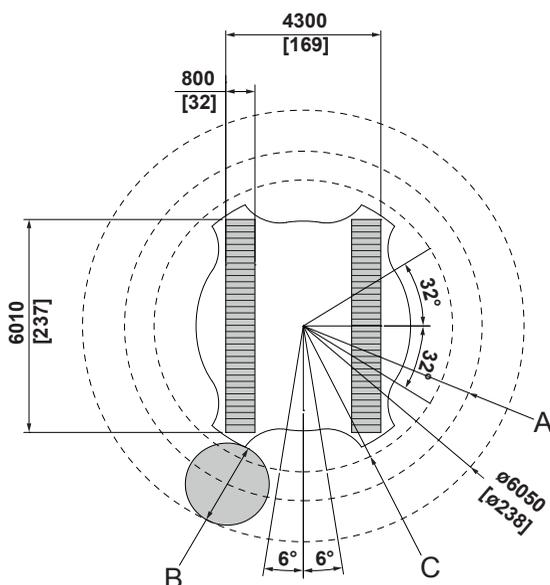


# A 290 K - Hydraulic Drill Rig

## Technical specifications

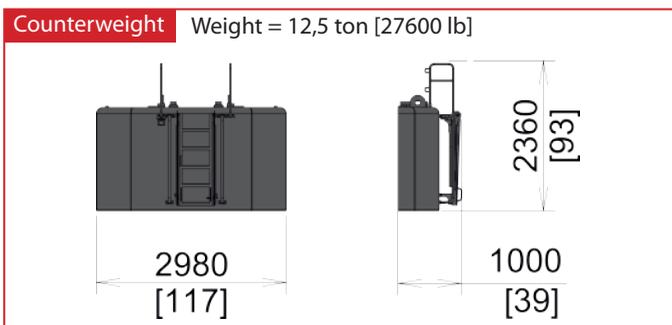
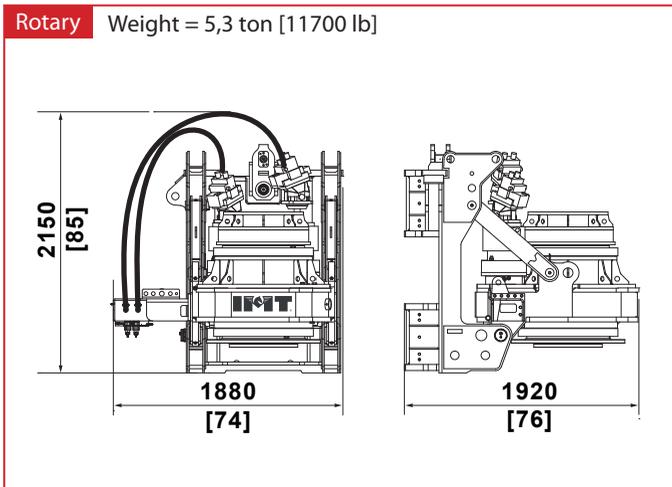
Crowd System		
Stroke	mm	3000
	in	118
Kelly Bar		
Standard		4/23
Options available		4/20 - 5/25
Operating Weight without auger		
	t (metric)	72,5
	lbs	159840

### Working area LCA



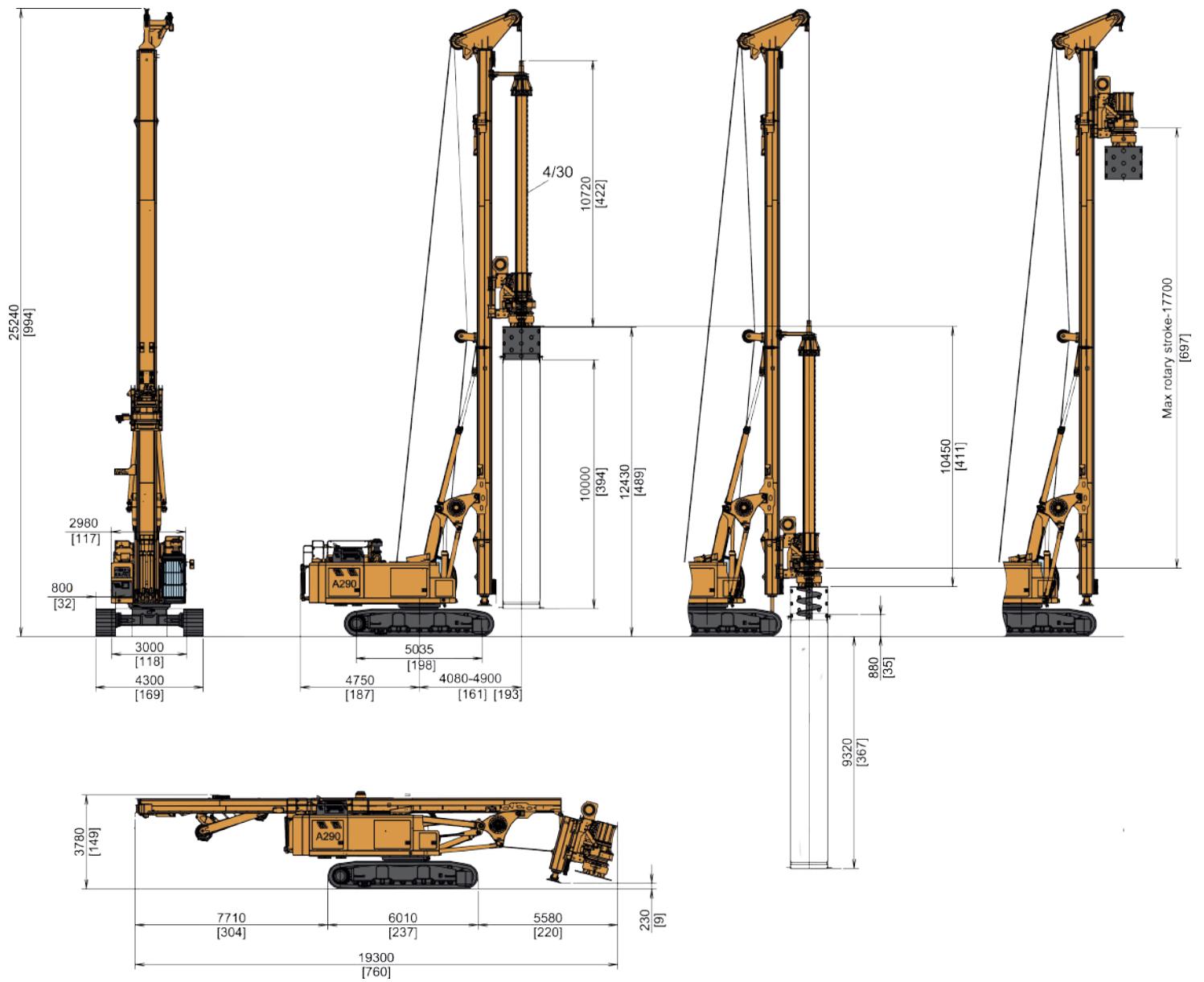
A	MAX WORKING RADIUS 4900 [R 193]
B	MAX TOOL DIAMETER 2300 [ø 91]
C	MIN WORKING RADIUS 4090 [R 161]

### Removable parts for transport phase



# A 290 K - Hydraulic Drill Rig

## Crowd winch version

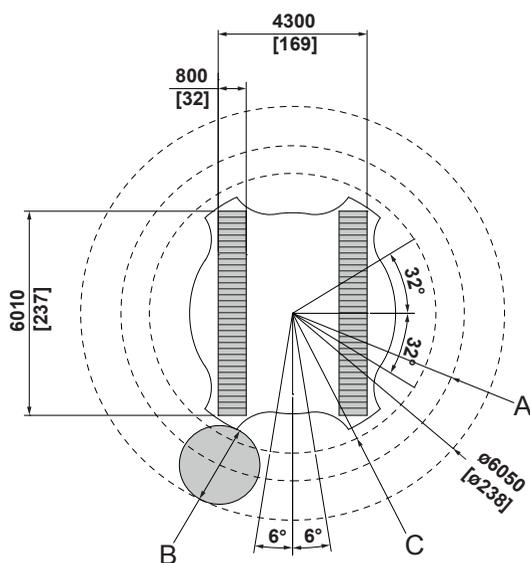


# A 290 K- Hydraulic Drill Rig

## Technical specifications

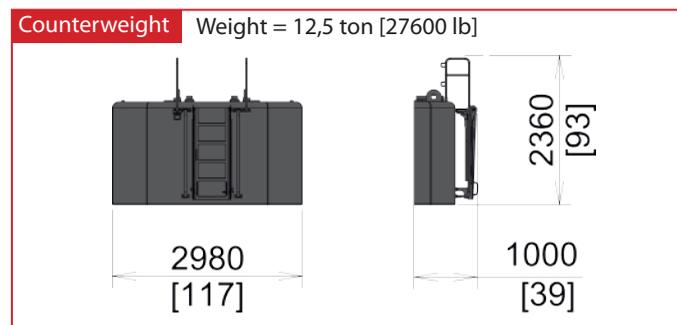
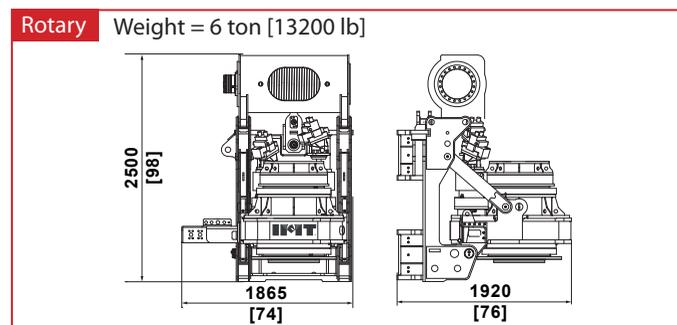
Winch Crowd System		
Kelly crowd push	kN	340
	lbf	74190
Kelly crowd pull	kN	340
	lbf	74190
Speed	m/min	7
	ft/min	23
Fast speed	m/min	20
	ft/min	65
Rope diameter	mm	26
Mast		
Pile max diameter	mm	1900
	in	75
Operating Weight w/standard kelly bar (4/30)	t (metric)	85
	lbs	166450

### Working area crowd winch

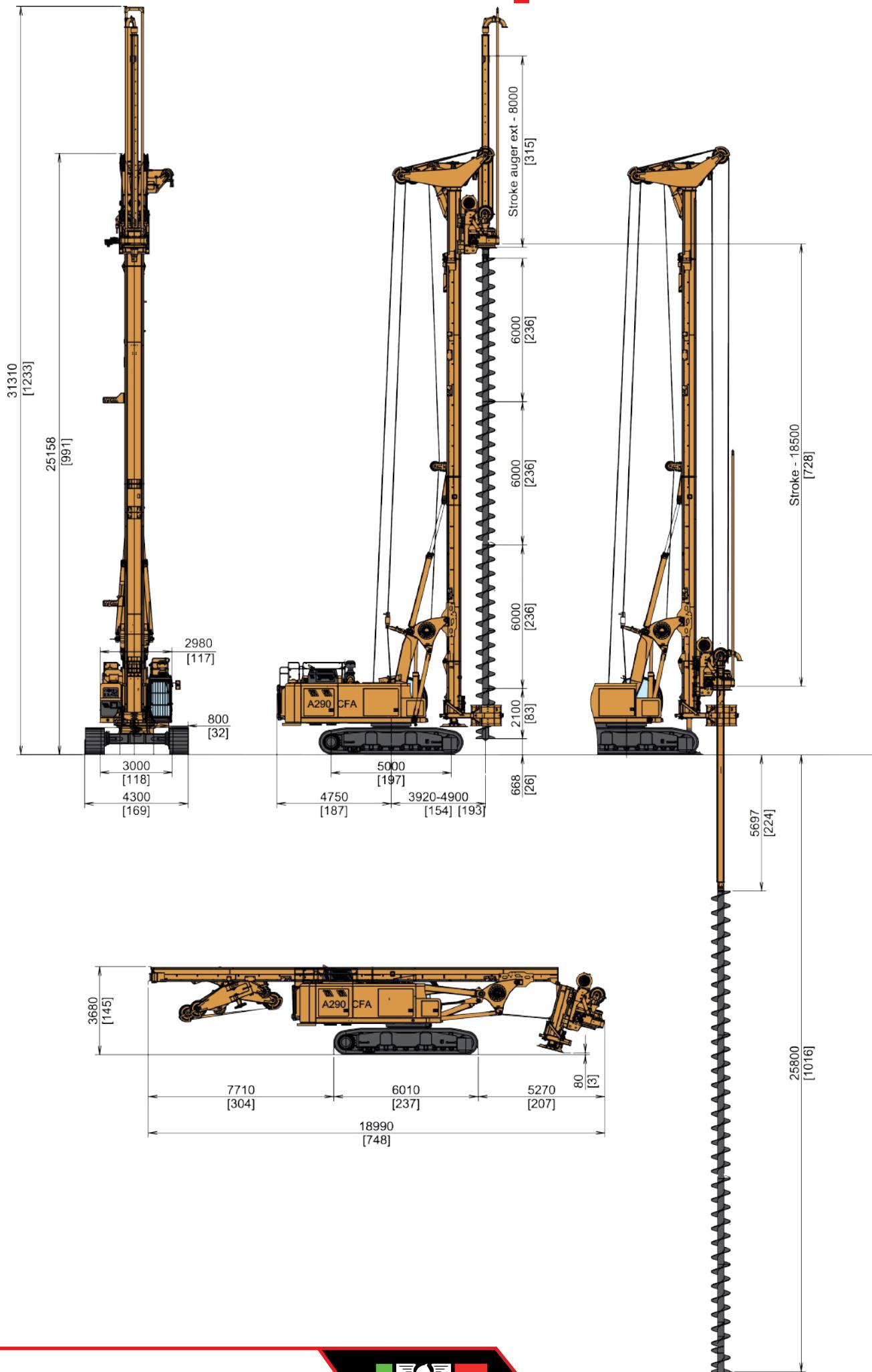


- A MAX WORKING RADIUS 4900 [R 193]
- B MAX TOOL DIAMETER 2300 [ø 91]
- C MIN WORKING RADIUS 4090 [R 161]

### Removable parts for transport phase



# A 290 K - Hydraulic Drill Rig

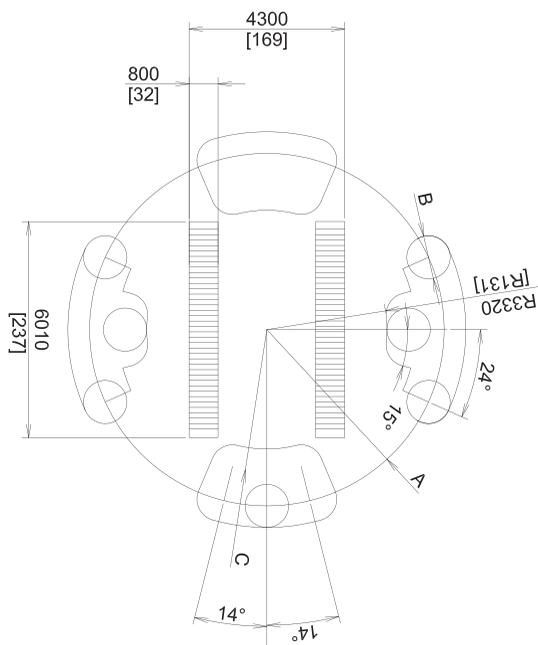


# A 290 K - Hydraulic Drill Rig

## 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	18500
Main winch cable diameter	mm	32
Drilling depth maximum w/o auger extension	m	17,8
	ft	58,4
Drilling depth maximum w auger extensions	m	25,8
	ft	84,6
Auxiliary winch		
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

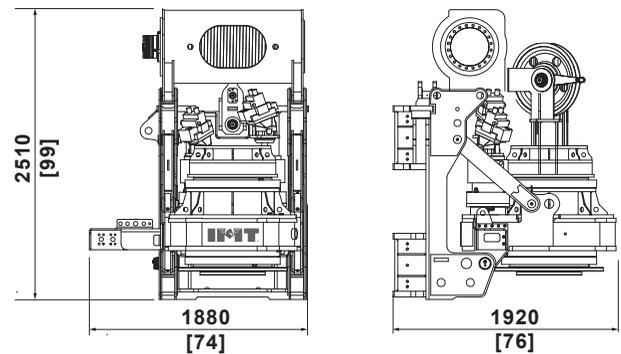
## Working area CFA



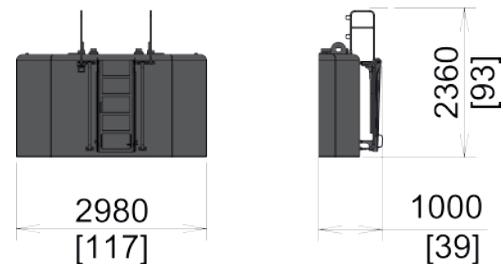
<b>A</b>	MAX WORKING RADIUS 4820 [R 190]
<b>B</b>	MAX DRILLING TOOL 1200 [ø 47]
<b>C</b>	MIN WORKING RADIUS 3920 [R 154]

## Removable parts for transport phase

**Rotary** Weight = 6,7 ton [14800 lb]



**Counterweight** Weight = 12,5 ton [2700 lb]



# A 290 K - 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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