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The actual supply status of the product shall be subject to the sales contract and the sample shall be for reference only.
If you would like to get the latest information about related products, please keep in touch with us.



XR320E Rotary Drilling Rig



XCMG Foundation Construction Machinery Co.,Ltd

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XCMG FOUNDATION CONSTRUCTION MACHINERY BUSINESS DIVISION

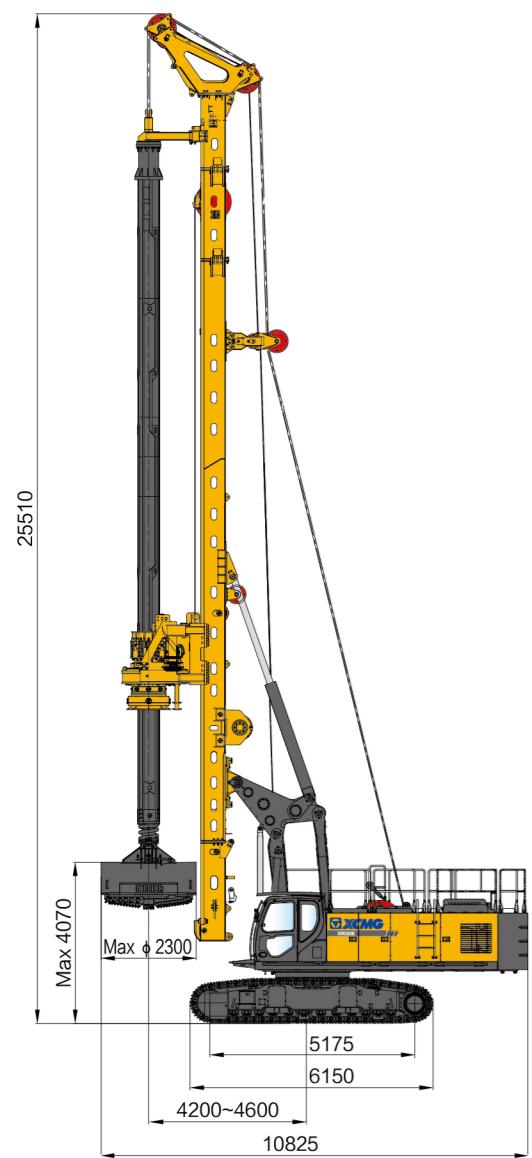
Xuzhou Construction Machinery Group Co., Ltd. (XCMG) was founded in 1943. Since then, XCMG has stood at the forefront of the Chinese construction machinery industry and developed into one of the domestic industry's largest, most influential, and most competitive enterprise groups with the most complete product varieties and series.

XCMG is the 3rd largest construction machinery company in the world. It is ranked 65th in the list of China's Top 500 Companies, 44th in the list of China's Top 100 Manufacturing Enterprises, and 2nd in the list of China's Top 100 Machinery Manufacturers. XCMG is dedicated to its core value of "Taking Great Responsibilities, Acting With Great Morals, and Making Great Achievements" and its corporate spirit of being "Rigorous, Practical Progressive, and Creative" in order to keep moving towards its ultimate goal of becoming a leading world-class enterprise capable of creating real value.

XCMG Foundation Construction Machinery Business Division is one of the five pillar sectors of XCMG focusing on the research, development, manufacturing and sales of piling machinery, trenchless machinery, underground mining machinery, tunneling machinery, and resource drilling machinery, providing customers with comprehensive solutions. It accelerates the intellectualized reconstruction and digital transformation, and has built a thousand-mu new base for intelligent manufacturing to form a world-class industry cluster of foundation construction machinery. At present, XCMG trenchless machinery ranks first in the world and XCMG piling machinery is in the first class. Its various types of products have been exported to more than 80 countries and regions.



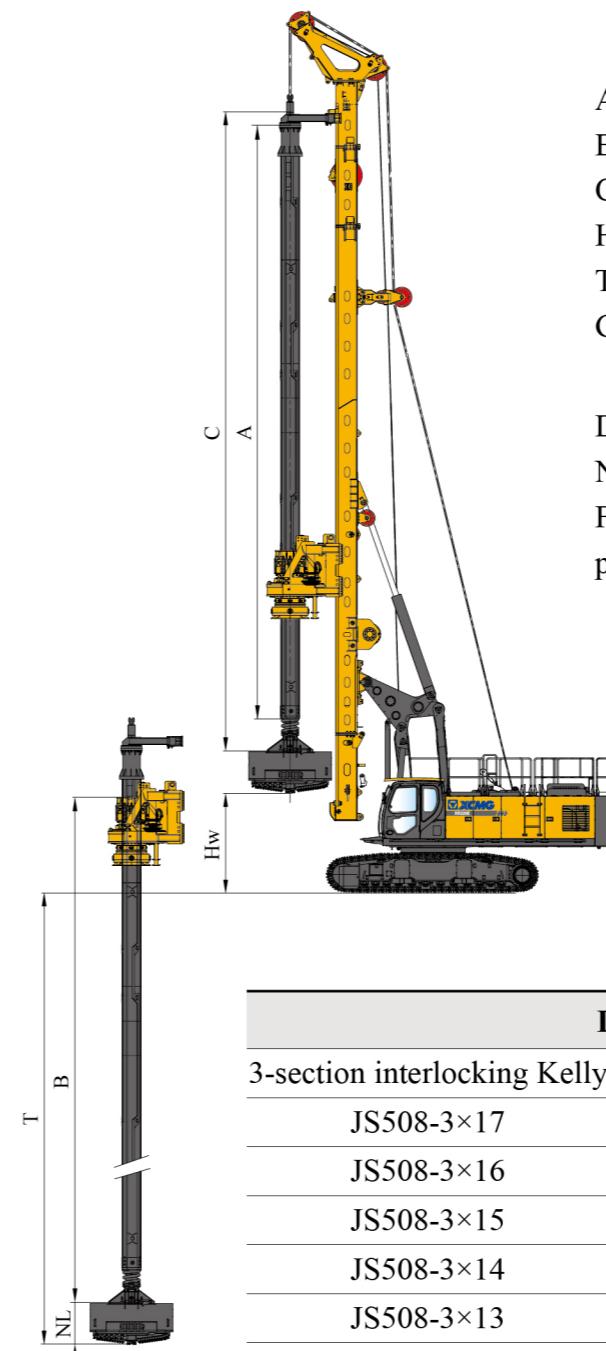
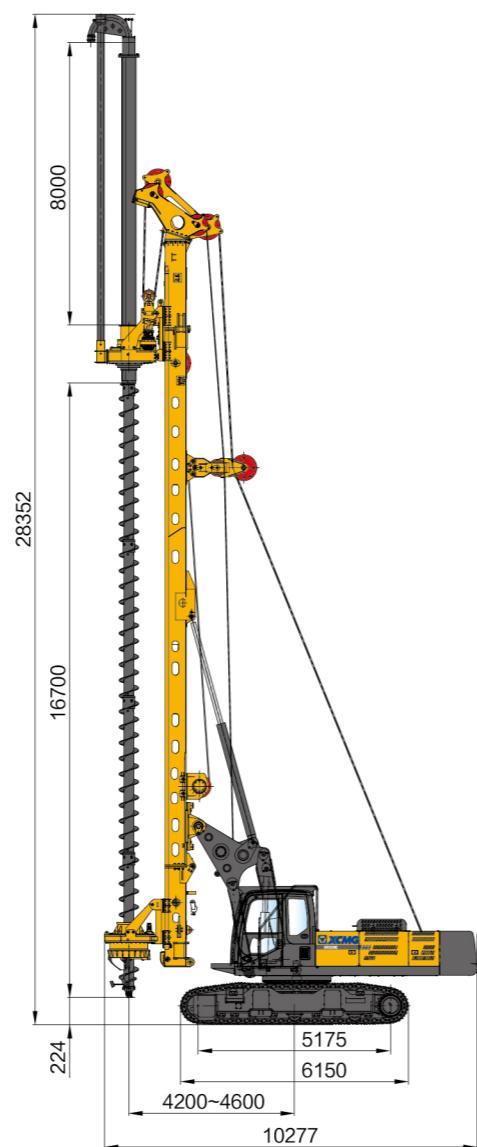
	Items	Units	Values
Main data	Working height	m	25.5
	Overall operating weight(standard)	t	106
	Max. drilling diameter	mm	Φ2300
	Max. drilling depth	m	61/94
Dimensions	Working condition	mm	10825×4800×25510
	Transport condition	mm	19750×3500×3790
Engine	Model	/	TAD1382VE
	Rated power	kW	315
	Emission standard	/	EU stage V
	Fuel tank capacity	L	800
Rotary drive	Rated output torque	kNm	320
	Rotary speed	rpm	6-27
Crowd winch	Max. crowd force push/pull	kN	330/370
	Max. stroke	m	15.5
Main winch	Max. pulling force	kN	340
	Max. line speed	m/min	75
Auxiliary winch	Max. pulling force	kN	100
	Max. line speed	m/min	41
Mast inclination	Lateral/forwards/backwards	°	±3/5/15
	Max. travel speed of overall unit	km/h	1.5
Undercarriage	Width of triple grouser track shoes	mm	800
	Width of crawlers retracted /extended	mm	3500-4800
	Max. climbable gradient of overall unit	%	35
	Ground pressure	kPa	125
Hydraulic system	Hydraulic oil tank capacity	L	1000
	Working pressure	bar	330



Kelly drilling

Upper kelly guide	Available
Max. drilling diameter	
Uncased	Φ2300 mm
Cased(without oscillator)	Φ2000 mm
Cased(with oscillator)	Φ1500 mm
Operating weight, approx.	106 t
With kelly bar	JS508-4×16

CFA drilling	
Kelly extension	8 m
Max. drilling depth	
With auger cleaner	22 m
Without auger cleaner	23 m
Max. drilling diameter with auger cleaner	Φ1000 mm
Max. extraction force with main winch and crowd winch	680 kN



A: Length of single section Kelly bar
 B: Length of Kelly bar (extracted)
 C: Length of Kelly bar (retracted)
 Hw: Max. clearance to drilling tool
 T: Drilling depth
 G: Weight of Kelly bar

Drilling data have been determined with an effective tool length of NL = 1 m and with the mast at a minimum operating radius.
 Further drilling depths, diameters and other Kelly types on request, please contact us.

Drilling depth – kelly drilling with casing

Max length of casing sections

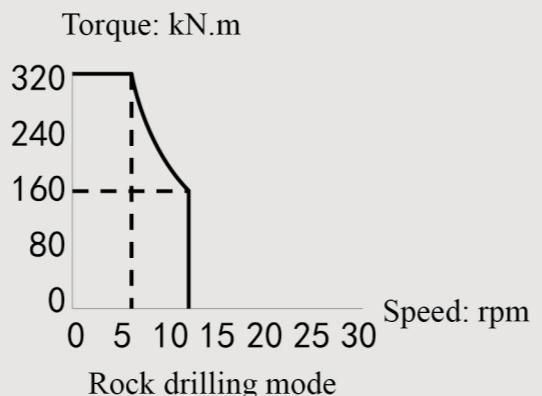
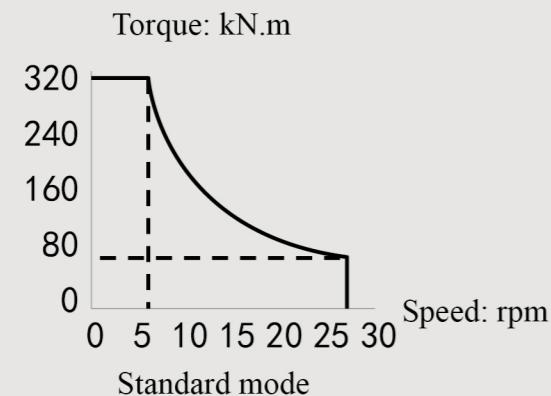
Without casing oscillator	Hw-1.1m
With casing oscillator	Hw-1.6m

Drilling depth – uncased Kelly drilling

3-section interlocking Kelly	A (m)	B (m)	C (m)	G (t)	Hw (m)	T (m)
JS508-3×17	17	48.3	18.5	12.9	3	45
JS508-3×16	16	45.3	17.5	12.3	4	42
JS508-3×15	15	42.3	16.5	11.7	5	39
JS508-3×14	14	39.3	15.5	11.1	6	36
JS508-3×13	13	36.3	14.5	10.5	7	33
JS508-3×12	12	33.3	13.5	9.9	8	30

4-section interlocking Kelly

JS508-4×17	17	63.9	18.5	14.5	3	61
JS508-4×16	16	59.9	17.5	13.7	4	57
JS508-4×15	15	55.9	16.5	12.9	5	53
JS508-4×14	14	51.9	15.5	12.1	6	49
JS508-4×13	13	47.9	14.5	11.3	7	45
JS508-4×12	12	43.9	13.5	10.5	8	41



		Kelly drilling	CFA drilling
Chassis	Retractable crawler chassis	●	●
	Casing oscillator interface	○	△
	Double boom luffing mechanism	●	●
	Luffing limit	●	●
	Braided electrical harness	●	●
	Automatic centralized lubrication system	●	●
	Sound-light alarm	●	●
	LED lighting system	●	●
	Tail safety monitoring	●	●
	Right side safety monitoring	●	●
Upper structure	Double side foldable pedal	●	●
	Fire extinguisher 2×6 kg	●	●
	Top safety fence	●	●
	Fuel self priming pump	●	●
	Automatic shut-off while refueling	○	○
	Fixed base of concrete pipe	△	●
	Concrete pipe	△	●
	Independent drilling mast support	●	●
	Automatic fire extinguishing system	○	○
	FOPS	●	●
Cab	Front protective grille	●	●
	Rear view mirror	●	●
	Electric double speed wiper	●	●
	Front sun blind	●	●

	Kelly drilling	CFA drilling
Cab	Top sun blind	●
	Cold and warm air conditioner	●
	Level meter	●
	Reading light	●
	Cigarette lighter	●
	Fire extinguisher	●
	Safety hammer	●
	Clothes hook	●
	Lap belt	●
	Air suspension seat	●
	Radio	●
	Cushion depth and inclination adjustment	○
	Seat mechanical lumbar support	○
	Filter clogging alarm	●
	Hydraulic oil suction alarm	●
	Oil suction filter element	●
	Centralized pressure measuring valve block	●
	GPS	○
	PLC intelligent control	●
	12.1 inch touch screen display	●
	Infrared surveillance camera	●
	7 inch monitor	●
	Automatic rotary positioning	○
	Rotation angle display	●
	Real time display of drilling depth	●
	Sound-light alarm for rotation and walking	●
	Multi gear control of rotary drive	●
Hydraulic and control system	Rotary drive standard mode	●
	Rotary drive rock drilling mode	●
	Rotary drive torque display	●
	Rotary drive speed display	●
	Rotary drive cruise control	●
	Automatic spin-off	●
	High-speed spin-off	○
	Rotary drive torque limit	○
	Rotary drive automatic pressure limit	○
	Stepless pressurization regulation	●
	Double speed control of pressurization	●
	Height limit of main winch	●
	Lifting force display of main winch	●

	Kelly drilling	CFA drilling
Hydraulic and control system	Lifting speed display of main winch	●
	Bottom contact protection of main winch	●
	Double floating control of main winch	●
	Automatic engine idling	●
	Intelligent fault monitoring	○
	Manual/automatic adjustment of drilling mast verticality	●
	Mast verticality detection	●
	Switch of eight languages	●
	Cooperative control of main winch and crowd winch	△
	Mechanical limit of rotary drive height	●
	Electric limit of rotary drive height	●
	Monitoring technology of Kelly bar anti stuck	○
Drilling mast	Height limit of auxiliary winch	○
	Landing leg of drilling mast	○
	Cathead one key folding	●
	Drilling mast limit (front, rear, left and right)	△
Rotary drive	φ419 assembled drive sleeve	●
	φ440 welded drive sleeve	○
	Box four-sealing structure	●
	Anti suction technology of motor	●
	Bracket and box vertical pin structure	●
	Casing drive device	●
Other technologies	12.5m machine clearance working height	○
	Dismantle the bottom drilling mast to meet large diameter drilling	○
	6 m stroke φ368 extension rod	△
	8 m stroke φ368 extension rod	△
	Mechanical guide cylinder	△
	Star type mechanical soil cleaner	△
	Hydraulic rotary soil cleaner	△
	Concrete pressure sensor	△

Standard: ● Optional: ○ Not available: △

Whole Machine Transport



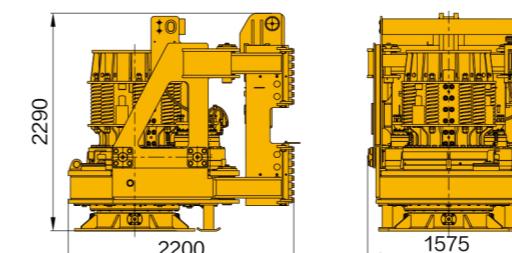
Weight of transport: 85.4 t (excluding Kelly bar and drilling bucket)

Disassembly Transport



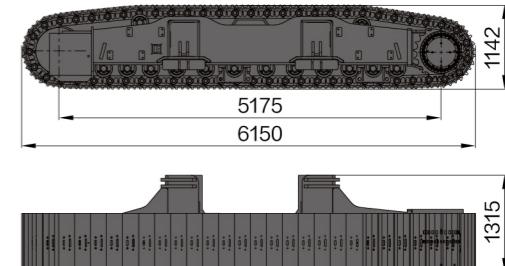
Weight of disassembly transport: about 50t

Rotary Drive



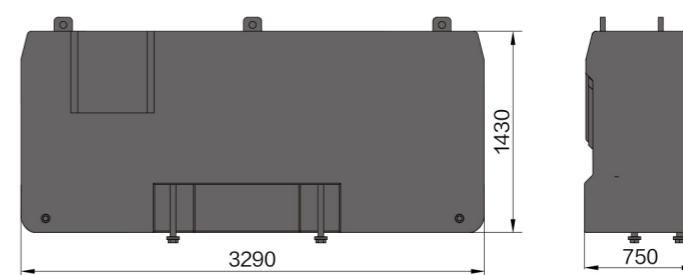
Weight of rotary drive: 7.9 t

Left & Right Crawlers

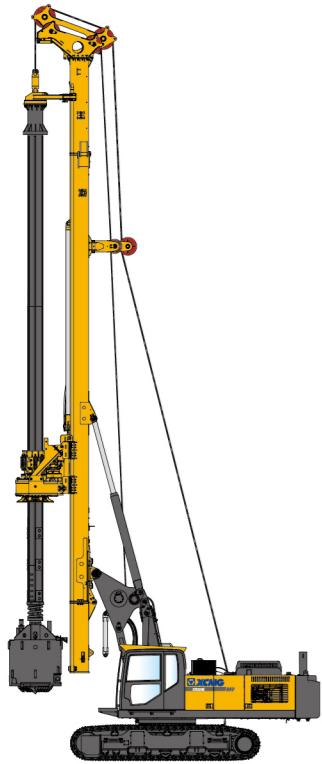


Weight of each crawler: 9.4 t

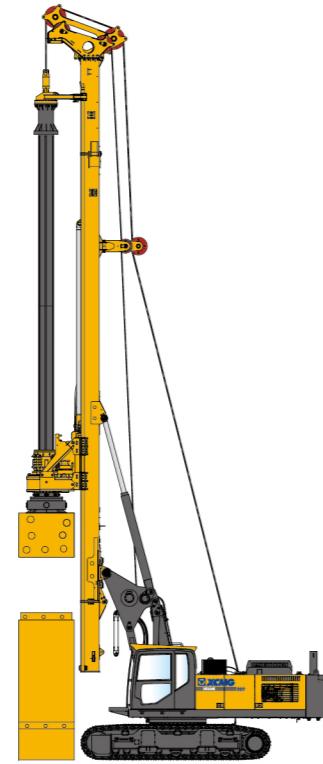
Counterweight



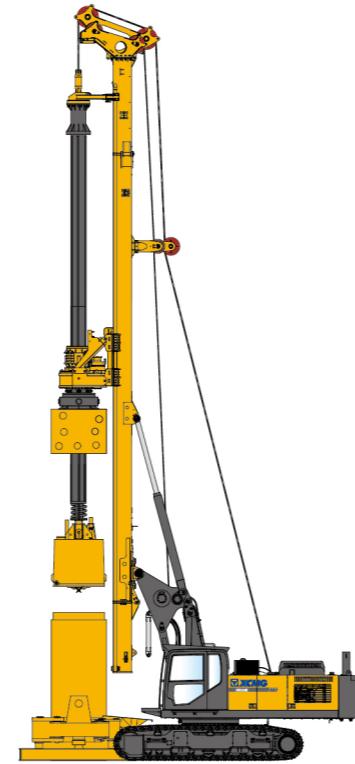
Weight of counterweight: 9 t



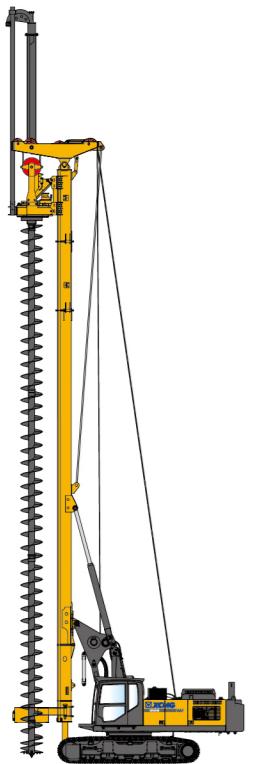
LDP



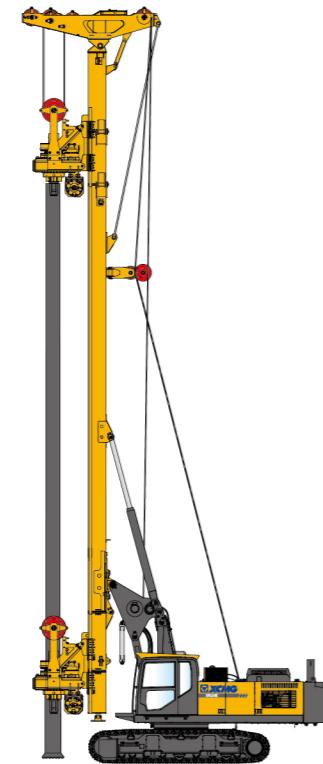
Casing



Casing and oscillator



CFA



DTH



FDD

