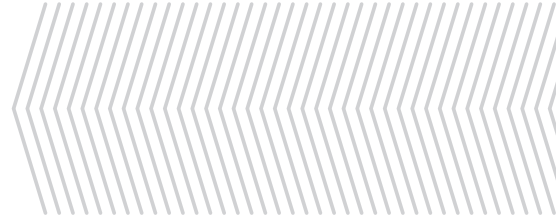


EK200

CYLINDER CROWD DRILLING RIG



CZM
FOUNDATION EQUIPMENT



czm-us.com

EK200

FEATURES

The EK200 is a versatile drilling rig, that is very productive on hard soil and rock drilling. It can be easily broken down for transport in 2 loads.

Easy conversion from standard to short mast by replacing:

- › **Top mast assembly**
- › **Crowd cylinder**
- › **Kelly bar**

CZM'S OPERATOR ASSIST TECHNOLOGY:

- › Auto Gear shifting for Rotary
- › Auto Gear shifting for Main winch
- › Drill Lock
- › Auto Crowd
- › Auto Level
- › Return to Center

TELEMATICS: The rig includes a CZM Telematics System for remote monitoring, diagnostics, and software updates, enabling CZM Support to assist with troubleshooting and performance optimization.

BASE

The new Cat® 340 Next Gen is a purpose-built machine powered by a fuel-efficient U.S. EPA Tier 4 Final C9.3 ACERT engine.

Equipped with CAT Vision Link that allows management to monitor machine operations and maintenance data online and wireless, providing information such as location, hours, fuel usage, idle time, event codes and maintenance schedule.

ROTARY

Robust design, with 2 slewing bearings on top and bottom, robust pinion and main gear.

2 groups of Hydraulic Motor / Planetary Gears for high torque and long life.

Anti-cavitation and anti-shock system for longer hydraulic motor life.

Cooling system for hydraulic motors and gearboxes.

Power-shift for High spin-off speed (110rpm) for quick discharge of soil.

3 operation speeds and 3 spinoff speeds. For high torque and high speeds.

Automatic gear shifting, for seamless operation, high production.

Exchangeable keys, bolted and reversible. No need to rebuild keys by welding inside the rotary.

Hydraulic measurement of torque displayed in the cab for the operator.



UNDERCARRIAGE

Caterpillar variable undercarriage with a reinforced frame provides increased stability and traction force. Its variable width design expands for maximum stability during drilling and retracts for easy transport.

MAST

Reinforced mast, with high strength steel.

MAIN WINCH

Special groove for better cable winding and longer cable life.

Press roller to maintain cable alignment standard.

2 gears allows for both high speed and high pulling force.

Automatic gear shifting, for seamless operation, high production.

Automatic down the hole winch stop. When Kelly bar reaches the bottom of the hole, winch automatically stops.

CAB

AM/FM Radio, Air conditioning/Heating

Top protection

LCD monitor for Engine and Hydraulics computer, with diagnostic system

CONTROL SYSTEM

Touch Screen Display

Measurements:

- Torque and rotary speeds
- Drilling depth
- Mast inclination X/Y axis
- Main Winch pulling force
- Crowd force

Automatic functions:

- Auto-level of mast
- Rotary automatic gear shifting
- Main Winch automatic gear shifting

Maintenance and data logging



SAFETY

Stability according to EN16228

Base, Mast and Boom Inclinometers

Working radius warning

Limit switches for Boom, Mast Tilt, Main Winch and Service Winch

Operator warnings for non recommended operations.

ACCESSORIES

Lighting package

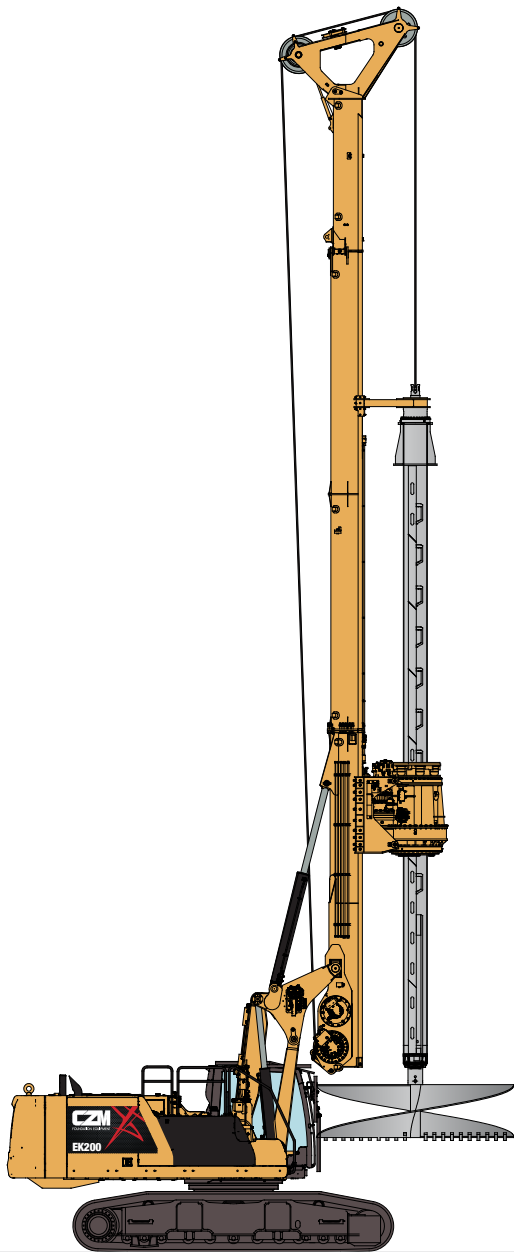
Refueling pump

O-ring kits

Toolbox

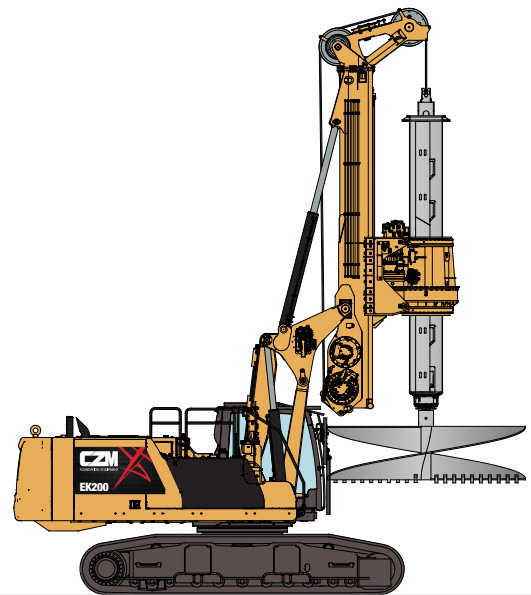
EK200

APPLICATIONS



STANDARD MAST

Standard Drilling Depth	125 ft
Diameter (Max. w/ lower mast)	5 ft 10 in
Diameter (Max. w/o lower mast)	11 ft
Max. Torque	193,750 ft.lbs
Operating weight*	139,000 lb



SHORT MAST

Standard Drilling Depth	55 ft
Diameter (Max. w/ lower mast)	5 ft 10 in
Diameter (Max. w/o lower mast)	11 ft
Max. Torque	193,750 ft.lbs
Operating weight*	127,500 lb

*Weight includes standard Kelly, without tool.

EK200

TECHNICAL SPECIFICATIONS

ROTARY HEAD - RT 460 - 14

Maximum torque (Nominal)	193,750 ft.lbs
Working speed of rotation	12-26 rpm
Spin-off rotation	57 - 110 rpm

CROWD SYSTEM

Cylinder stroke - standard mast	16 ft 5 in
Cylinder stroke - short mast	10 ft
Cylinder push force	65,000 lbf
Cylinder push speed	35 ft/min
Cylinder pull force	55,500 lbf
Cylinder pull speed	40 ft/min

MAIN WINCH

Max. pull-force - 1st Layer (effective)	53,400 lbf
Max. pull-force - 1st Layer - 2nd Speed (effective)	43,100 lbf
Line speed - 1st Layer	220 ft/min
Max. line speed - 1st Layer - 2nd Speed	275 ft/min
Cable diameter	26 mm
Drum diameter - 1st Layer	20.5 in

AUXILARY WINCH

Max. pull-force - 1st Layer (effective)	22,000 lbf
Line speed - 1st Layer	85 ft/min
Cable diameter	3/4 in
Drum diameter - 1st Layer	16.5 in

MAST INCLINATION

Backward	15°
Forward	5°
Sideways	4° / 4°

DIESEL ENGINE Cat® 340 - (Cat® C9.3 ACERT™)

Net Power (ISO 14396)	352 hp
Displacement	568 in³
Fuel Tank	158 gal

HYDRAULIC SYSTEM - (Cat® 340)

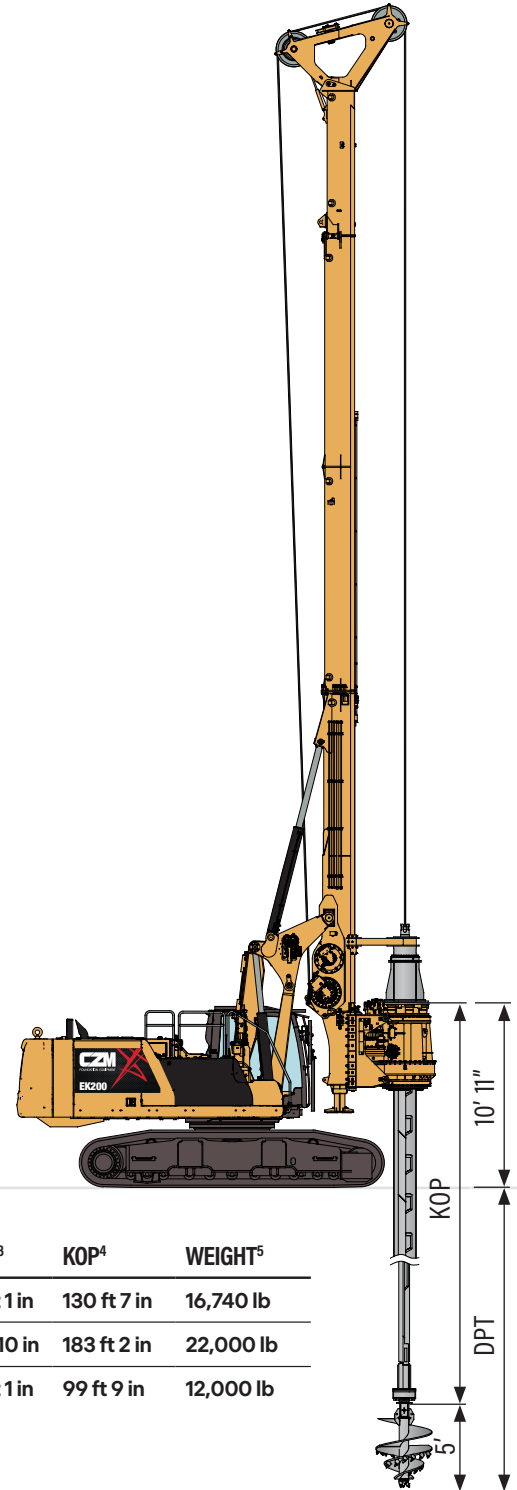
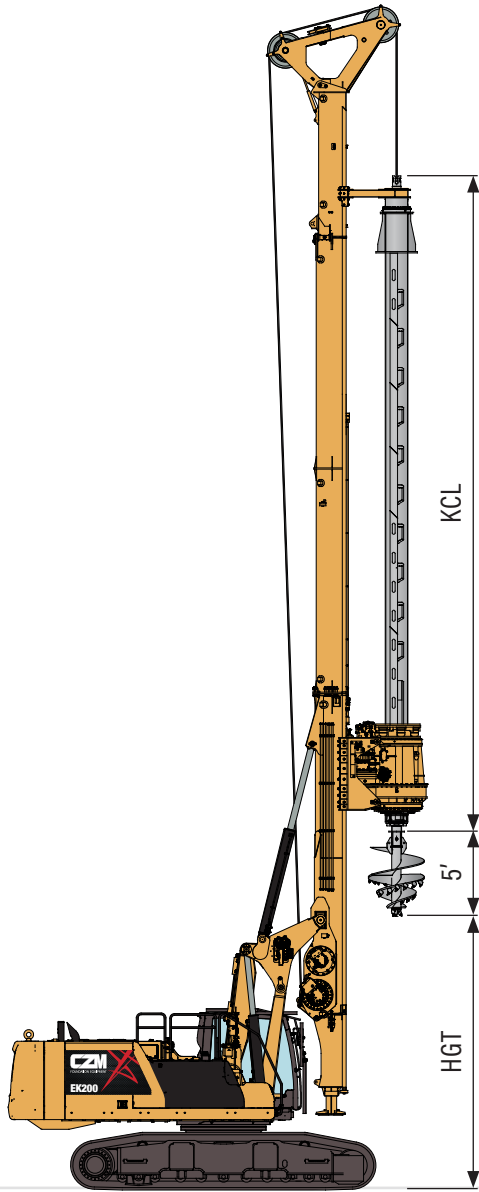
Hydraulic pressure	5,076 psi
Flow rate (main circuit)	2x74 gal/min
Flow rate (auxiliary circuit)	26.5 gal/min
Hydraulic oil tank capacity	42.5 gal

UNDERCARRIAGE

Track length	17 ft 10 in
Length to Center of rollers	15 ft 1 in
Closed position width (retracted)	9 ft 10 in
Working position width (extended)	14 ft 7 in
Shoes width	28.3 in
Max. drawbar pull	95,150 lbf
Max. travel speed	1.3 mph

STANDARD MAST

GENERAL DIMENSIONS



KELLY BAR OPTIONS	PART #	# ELEMENTS	DEPTH - DPT ¹	TRANSPORT - KCL ²	HGT ³	KOP ⁴	WEIGHT ⁵
4/125 Interlock	25852.4130.000	4	124 ft	39 ft 4 in	16 ft 1 in	130 ft 7 in	16,740 lb
4/175 Interlock	25852.4175.000	4	176 ft 4 in	52 ft 6 in	6 ft 10 in	183 ft 2 in	22,000 lb
3/90 Interlock ⁶	25852.3090.000	3	93 ft	39 ft 4 in	16 ft 1 in	99 ft 9 in	12,000 lb

¹ DPT: Total depth with 5 ft tool boomed all the way back. Additional 2 ft of depth if boomed forward.

² KCL: Length measured from bottom of stub to top of swivel.

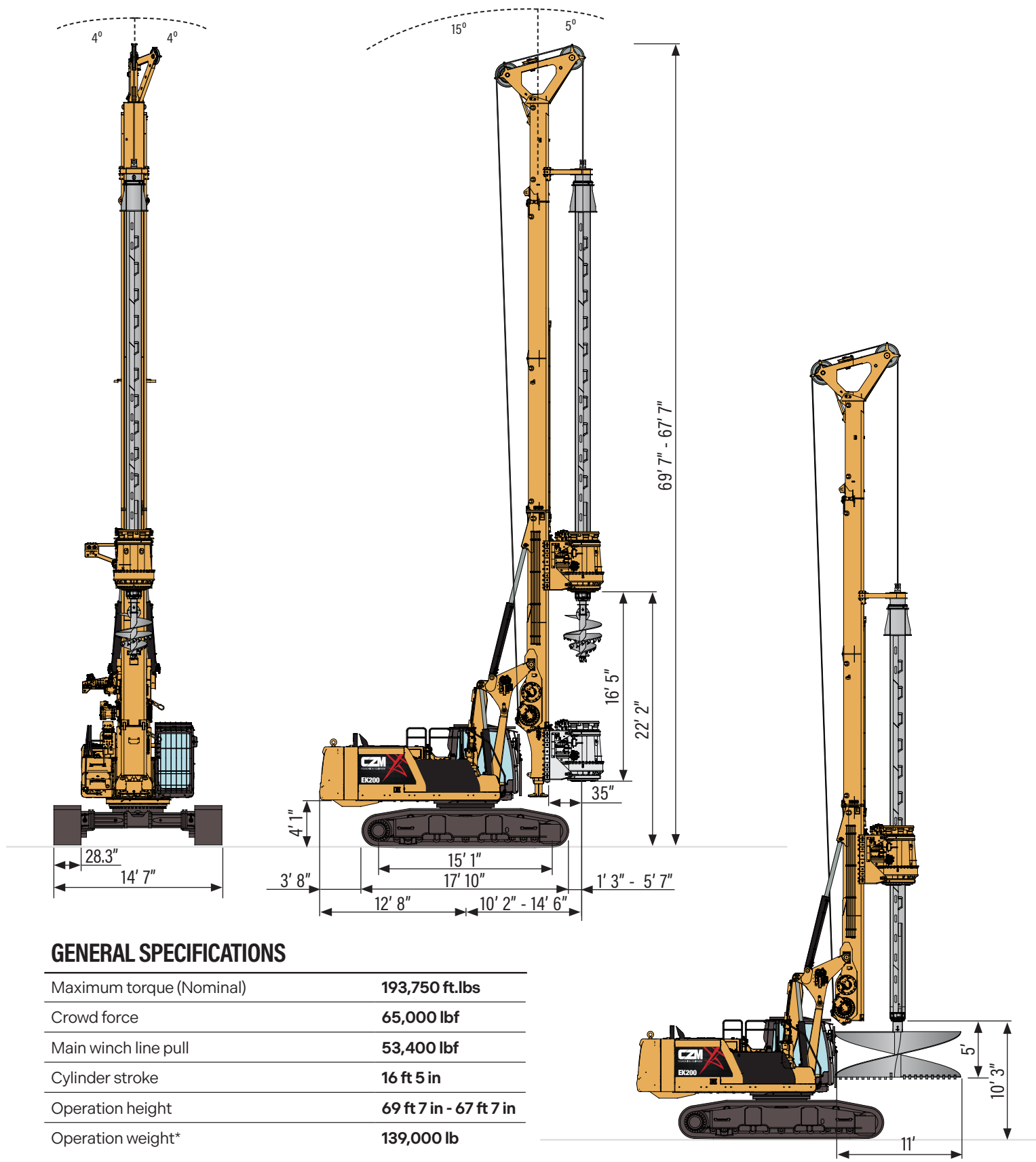
³ HGT: Length measure from ground to bottom of auger assuming a 5 ft tall tool.

⁴ KOP: Length measure from top of flange to bottom of stub (without a tool).

⁵ Weight includes A-frame and swivel.

⁶ Special kelly bar, not in stock.

Other kelly bars available upon request.



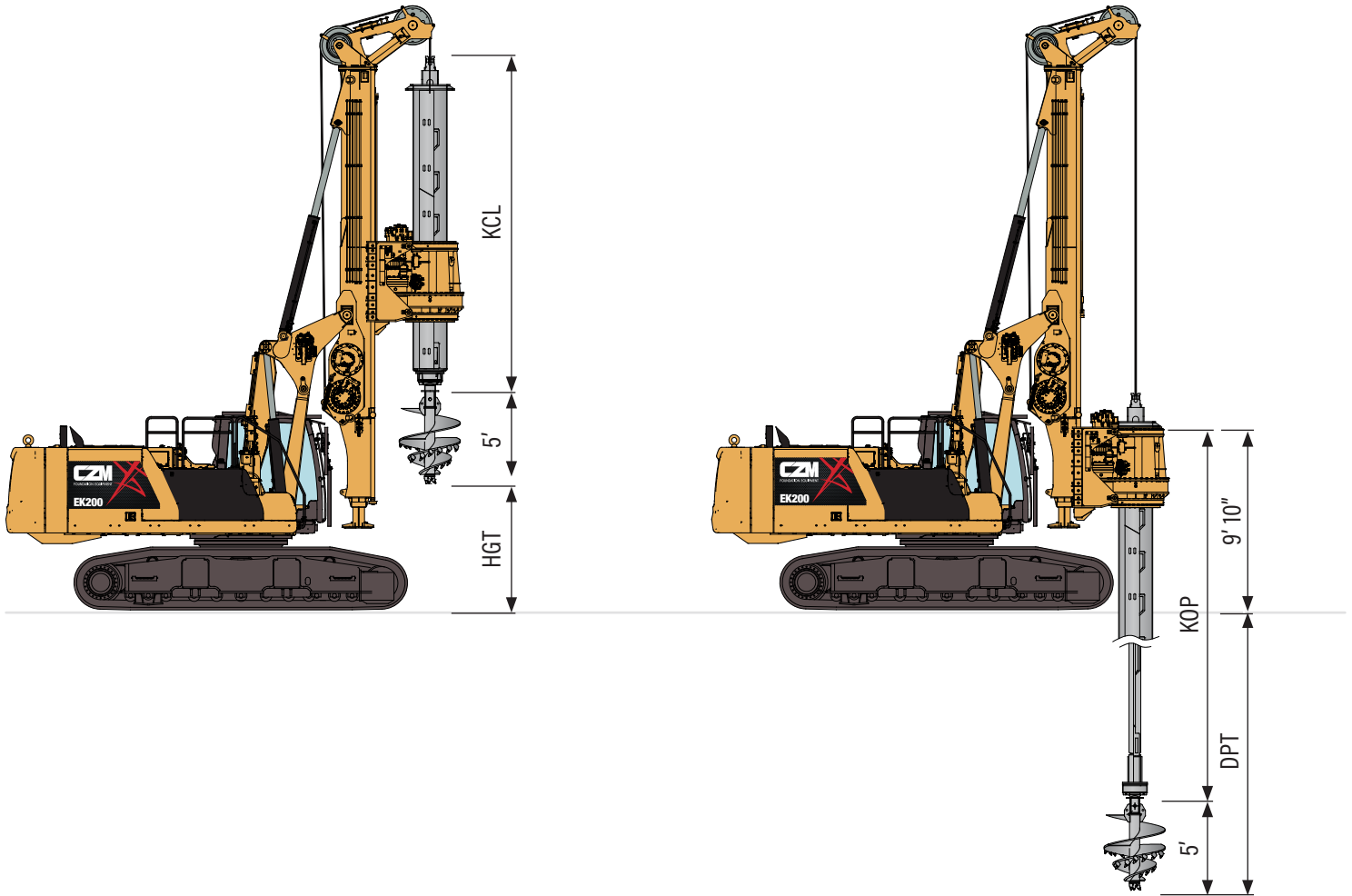
GENERAL SPECIFICATIONS

Maximum torque (Nominal)	193,750 ft.lbs
Crowd force	65,000 lbf
Main winch line pull	53,400 lbf
Cylinder stroke	16 ft 5 in
Operation height	69 ft 7 in - 67 ft 7 in
Operation weight*	139,000 lb

*Weight includes standard Kelly, without tool.

SHORT MAST

GENERAL DIMENSIONS



KELLY BAR OPTIONS	PART #	# ELEMENTS	DEPTH - DPT ¹	TRANSPORT - KCL ²	HGT ³	KOP ⁴	WEIGHT ⁵
Standard 6/55 Interlock	25852.6055.000	6	53 ft 6 in	15 ft 7 in	9 ft	59 ft 4 in	10,500 lb
6/72 Interlock	25852.6072.000	6	73 ft 6 in	18 ft 10 in	6 ft 3 in	79 ft 3 in	12,200 lb

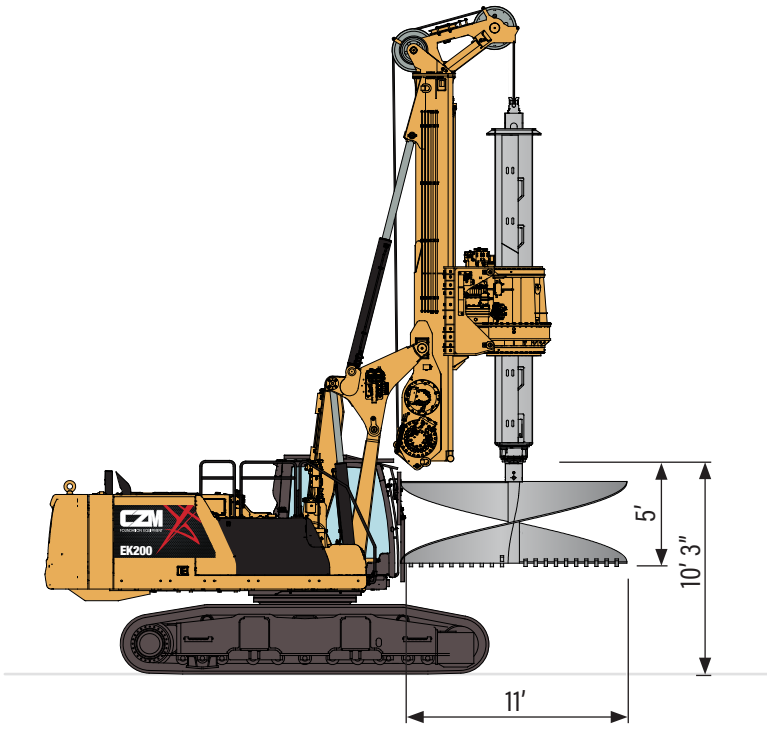
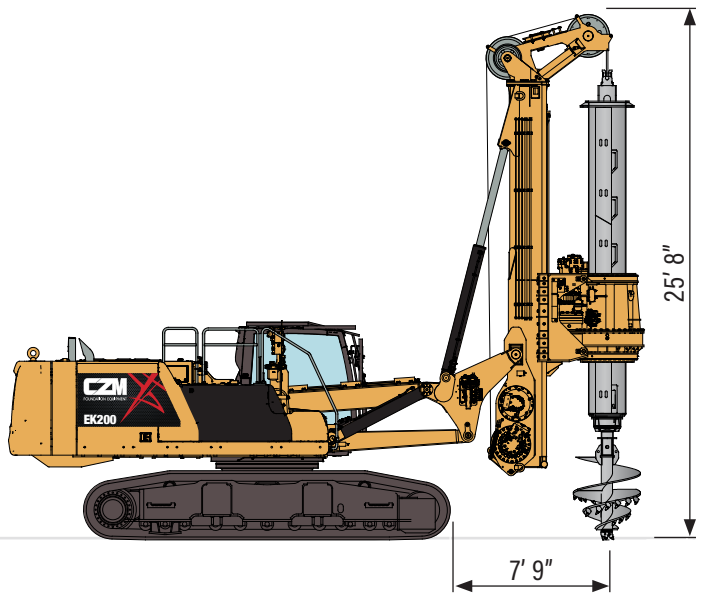
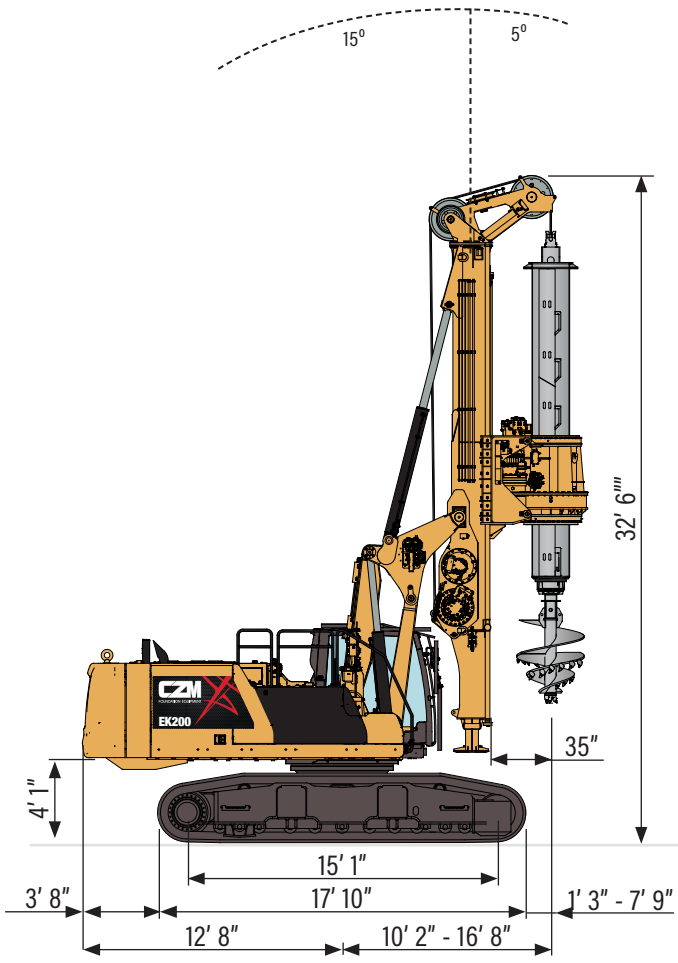
¹ DPT: Total depth with 5 ft tool boomed all the way back*. Additional 5 ft of depth if boomed forward.

² KCL: Length measured from bottom of stub to top of swivel.

³ HGT: Length measure from ground to bottom of auger assuming a 5 ft tall tool. More clearance can be reached with mast extension.

⁴ KOP: Length measure from top of flange to bottom of stub (without a tool).

⁵ Weight with swivel.



GENERAL SPECIFICATIONS

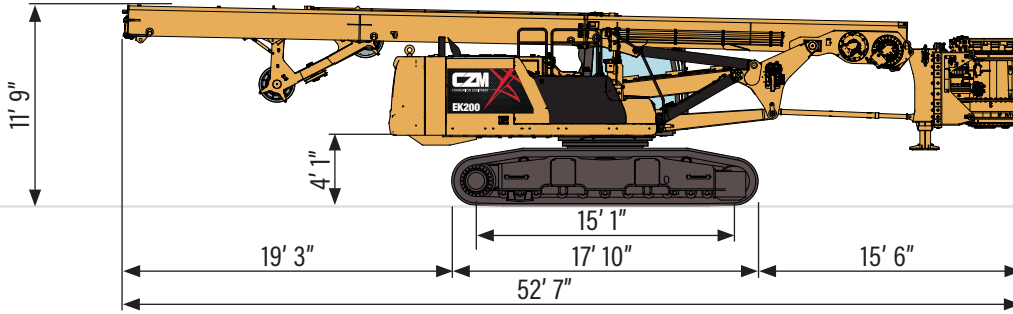
Maximum torque (Nominal)	193,750 ft.lbs
Crowd force	65,000 lbf
Main winch line pull	53,400 lbf
Cylinder stroke	10 ft
Operation height	32 ft 6 in - 25 ft 8 in
Operation weight*	127,500 lb

*Weight includes standard Kelly, without tool.

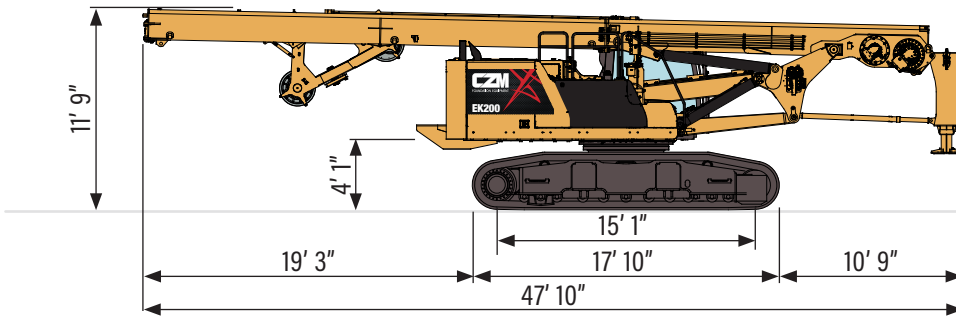
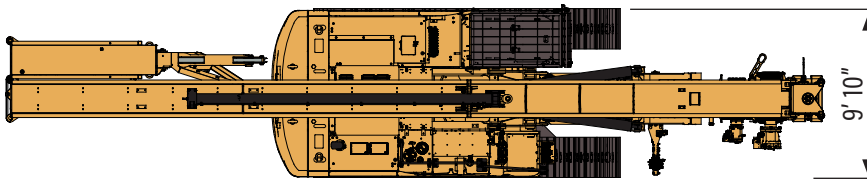
TRANSPORT

DIMENSIONS

STANDARD MAST

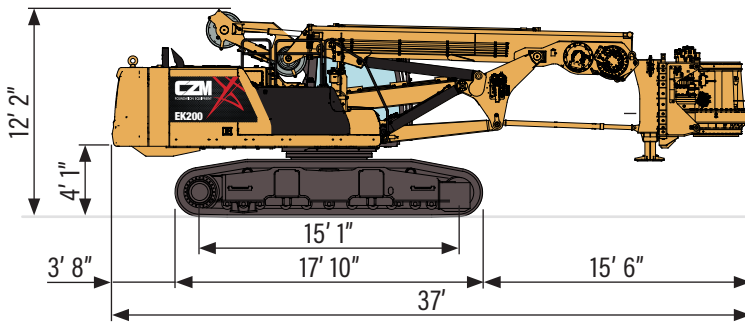


Height	11 ft 9 in
Length	52 ft 7 in
Width	9 ft 10 in
Weight	122,600 lb

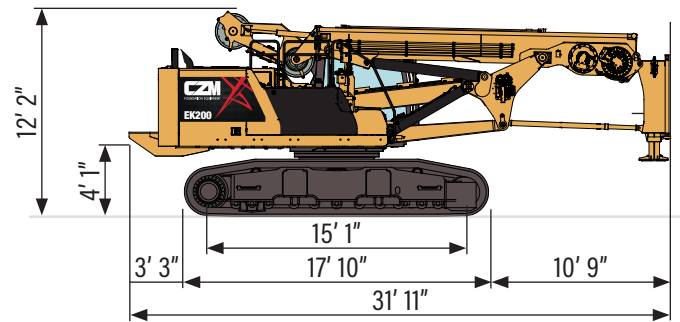


Height	11 ft 9 in
Length	47 ft 10 in
Width	9 ft 10 in
Weight	91,980 lb

SHORT MAST



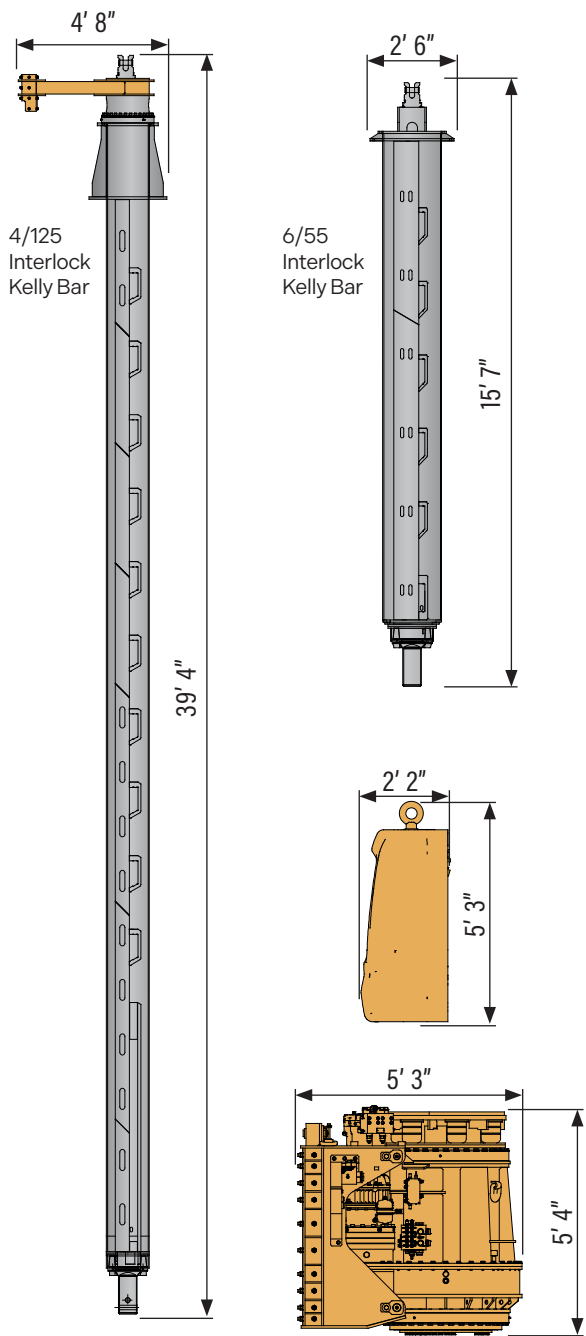
Height	12 ft 2 in
Length	37 ft
Width	9 ft 10 in
Weight	117,000 lb



Height	12 ft 2 in
Length	31 ft 11 in
Width	9 ft 10 in
Weight	86,720 lb

COMPONENTS

Rotary	11,600 lb
Main Cat® Counterweight	18,740 lb
4/125 Interlock Kelly Bar	16,740 lb
6/55 Interlock Kelly Bar	10,500 lb





FOUNDATION EQUIPMENT

> HEADQUARTERS

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Ellabell, Georgia 31308
(912) 200-7654

czm-us.com



AFTER SALES

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Ventura, CA 93001
(805) 701-9885

> GEORGIA

145 East Industrial Blvd.
Pembroke, GA 31321
(912) 200-7656

> KENTUCKY

170 Budco Lane
Elizabethtown, KY 42701
(912) 675-3059

> TEXAS

2501 Blue Mound Rd. W.
Haslet, TX 76052
(817) 232-8053

ABOUT CZM

CZM is headquartered in Savannah, Georgia, USA. For 50 years, we have specialized in manufacturing foundation equipment. We design and customize models for many different drilling applications including Drilled Shafts, CFA, Displacement piles, Soilmixing, Micropiles, Anchors, Driven piles and Soil improvement. We are a Caterpillar OEM (Original Equipment Manufacturer).

myCZM > portal.myczm-us.com

The myCZM Web Portal is the essential digital point of reference for all customers and dealers, providing instant access to everything you need.

- > **Machine Documentation:** Consult manuals, warranties, stability charts, and technical schematics (electrical/hydraulic).
- > **Spare Parts:** Navigate and identify needed parts, and submit direct quotation requests.
- > **Support:** Directly submit information and general inquiries.

CZM CAPITAL

CZM provides flexible, affordable financing to get our machines working for you, Get more than just a machine for your money.

Contact us today at (877) 773-0333.

Specifications are subject to change without notice.