



RPI Equipment, LLC

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EK125

**ON CAT323
(NEXT GEN)**

The mast is made of special steel called "Weldox" that has a yield strength 2.8 times higher than regular ASTM A36 steel. It means that with less weight the EK125 can have better stability and displacements on the job site and easier transport handlings



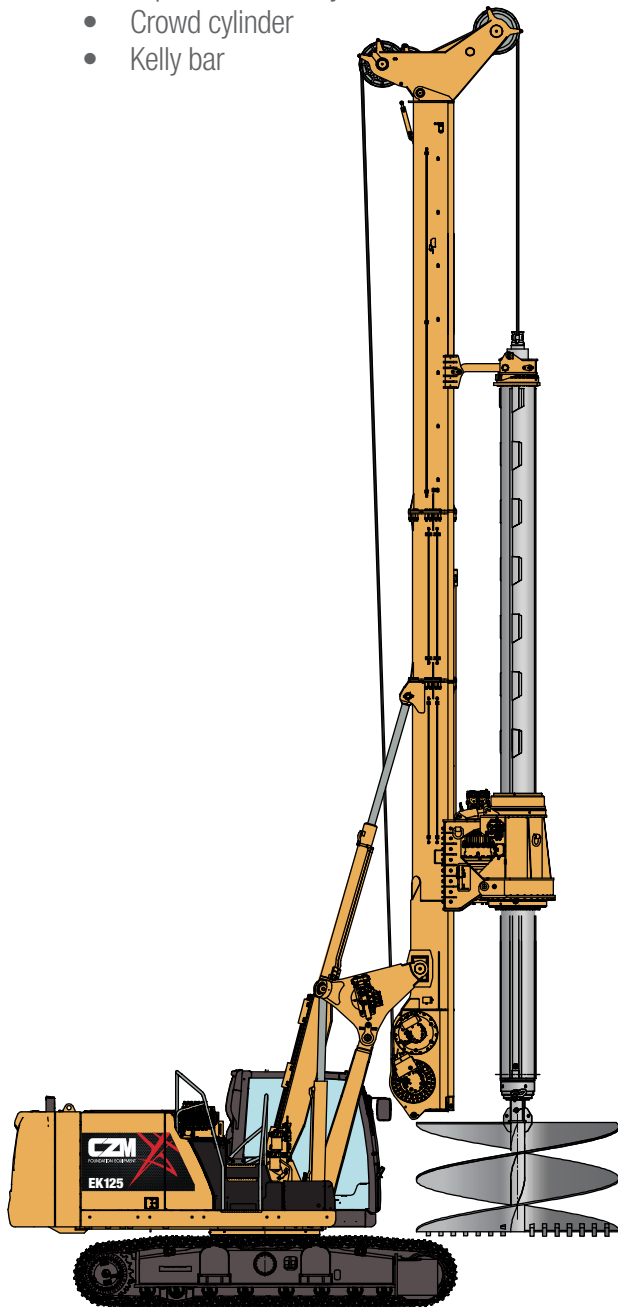


EK125

Mounted on a
CAT 323 ”
(NEXT GEN)

APPLICATION

- One load machine with fast and easy set up.
- Kelly bar is transported with the machine, no auxiliary equipment necessary for set up.
- Easy conversion from versions standard and short mast by replacing:
 - Top mast assembly
 - Crowd cylinder
 - Kelly bar



DRILLED SHAFT PILE (STANDARD VERSION)

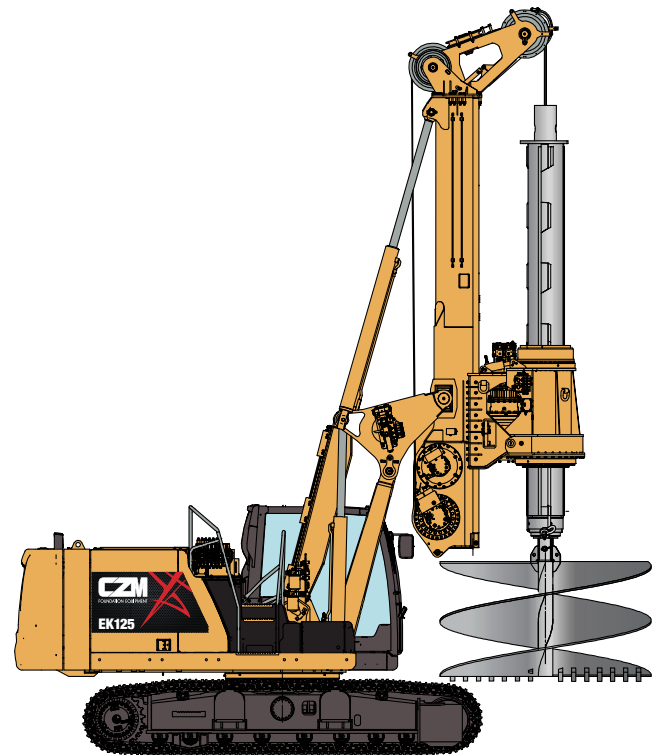
Depth: 90ft (27.4m) / 120ft (37m) / 150ft (46m) / friction 180ft (55m)
Diameter (max.): with lower mast: 60in (1,500mm)
Diameter (max.): without lower mast: 96in (2,440mm)

STANDARD FEATURES

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 machine can be monitored remotely, for faults and maintenance data.



DRILLED SHAFT PILE (SHORT MAST VERSION)

Depth: 55ft (16.7m) / friction 65ft (20m)
Diameter (max.): with lower mast: 60in (1,500mm)
Diameter (max.): without lower mast: 96in (2,440mm)

TECHNICAL SPECIFICATIONS

KELLY BAR STANDARD MAST APPLICATION

Drilling Depth (standard - 4 elements; interlock kelly bar)	120 ft	37 m
Drilling Depth (3 elements; interlock kelly bar)	90 ft	24.7 m
Drilling Depth (5 elements; interlock kelly bar)	150 ft	46 m
Drilling Depth (6 elements; friction kelly bar)	180 ft	55 m
Drilling Diameter with lower mast (max.)	60 in	1,500 mm
Drilling Diameter without lower mast (max.)	96 in	2,440 mm

Other kelly bars available upon request.

KELLY BAR SHORT MAST APPLICATION

Drilling Depth (standard - 5 elements; interlock kelly bar)	55 ft	16.7 m
Drilling Depth (6 elements; friction kelly bar)	65 ft	20 m
Drilling Diameter with lower mast (max.)	60 in	1,500 mm
Drilling Diameter without lower mast (max.)	96 in	2,440 mm

ROTARY HEAD - RT 460 - 12 (STANDARD)

Max. torque (nominal)	88,000 lbf.ft	12,000 kgf.m
Working speed of rotation	9-28 rpm	
Spin-off rotation	70-100 rpm	

ROTARY HEAD - RT 460 - 14 (OPTIONAL. FOR 3 AND 4 ELEMENTS KELLY ONLY)

Max. torque (nominal)	101,700 lbf.ft	14,000 kgf.m
Working speed of rotation	8-24 rpm	
Spin-off rotation	70-100 rpm	

CROWD SYSTEM

Cylinder stroke - standard mast	11 ft	3,350 mm
Cylinder stroke - short mast	9 ft	2,750 mm
Cylinder push force	43,000 lbf	19,000 kgf
Cylinder push speed	56 ft/min	17 m/min
Cylinder pull force	53,000 lbf	24,000 kgf
Cylinder pull speed	51 ft/min	16 m/min

MAIN WINCH

Max. pull-force - 1st Layer (effective)	41,000 lbf	18,600 kgf
Max. pull-force - 1st Layer - 2nd Speed (effective)	33,600 lbf	15,300 kgf
Line speed - 1st Layer	200 ft/min	60 m/min
Max. line speed - 1st Layer - 2nd Speed	245 ft/min	75 m/min
Cable diameter	-	24 mm
Drum diameter - 1st Layer	18.5 in	473 mm

AUXILIARY WINCH

Max. pull-force - 1st Layer (effective)	22,000 lbf	10,000 kgf
Line speed - 1st Layer	180 ft/min	55 m/min
Cable diameter	3/4 in	19 mm
Drum diameter - 1st Layer	16.5 in	420 mm

MAST INCLINATION

Backward	15°	15°
Forward	9°	9°
Sideways	9° / 9°	9° / 9°

DIESEL ENGINE CAT323 (CAT® C7.1 ACERT™)

Net Power – SAE J1349	172 hp	128 kW
Displacement	433 in3	7.1 L
Fuel Tank	86 gal	345L

HYDRAULIC SYSTEM (CAT323)

Hydraulic pressure	5,076 psi	350 bar
Flow rate (main circuit)	2x49 gal/min	2x185 L/min
Flow rate (auxiliary circuit)	26.5 gal/min	100 L/min
Pilot circuit pressure	569 psi	40 bar
Pilot circuit flow	6.4 gal/min	24.3 L/min
Hydraulic oil tank capacity	30.4 gal	115 L

UNDERCARRIAGE

Track length	15 ft 4 in	4,650 mm
Length to Center of rollers	12 ft 7 in	3,830 mm
Transport position width (retracted)	8 ft 4 in	2,540 mm
Working position width (extended)	12 ft 1 in	3,675 mm
Shoes width	23.6 in	600 mm
Max. drawbar pull	46,085 lbf	20,500 kgf
Max. travel speed	1.93 mph	3.1 km/h

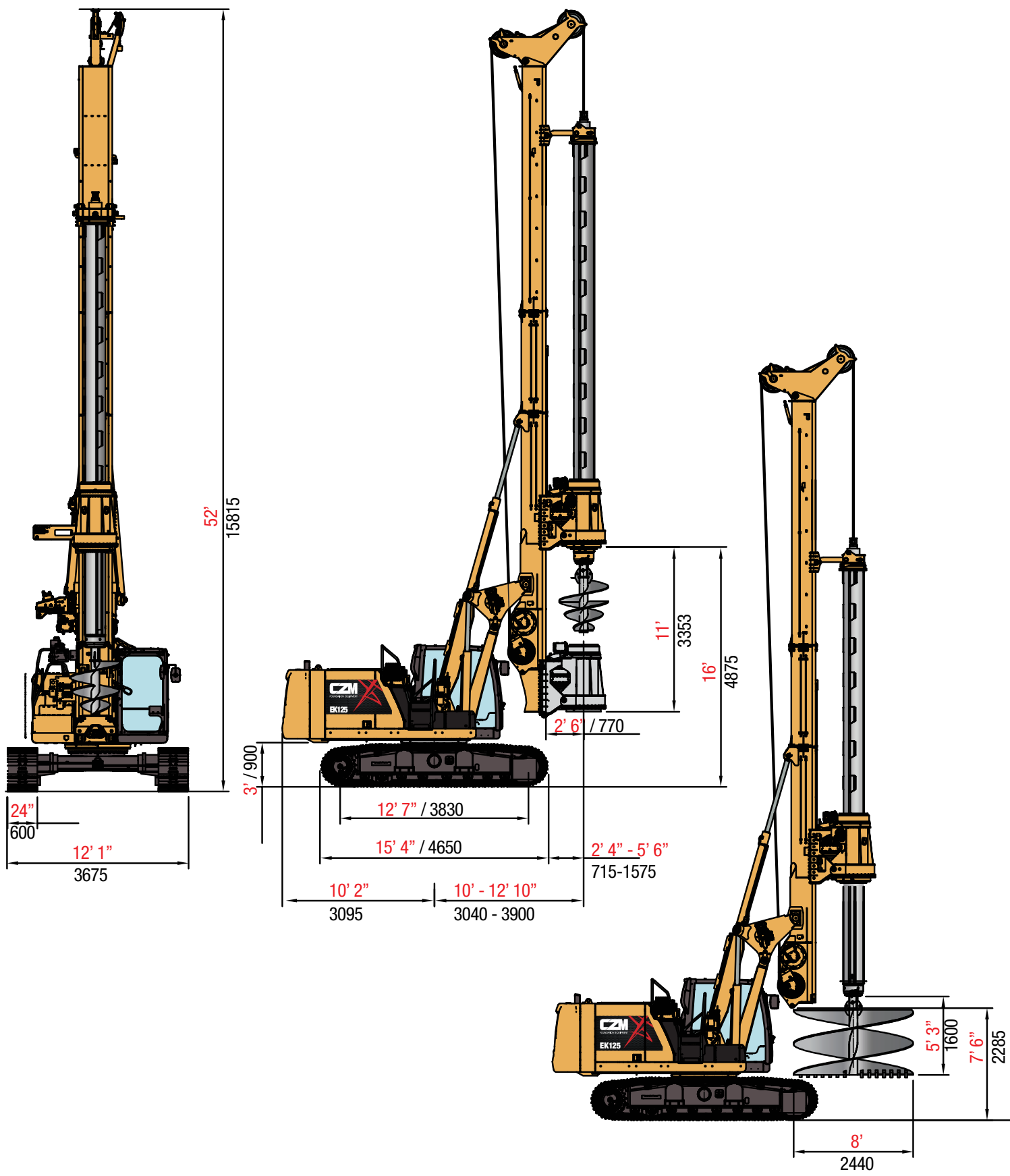
TRANSPORT

Transport height	11 ft 6 in	3,510 mm
Length	50 ft 10 in	15,500 mm
Transport width	9 ft	2,750 mm
Transport weight (standard kelly 4 / 120 ft)	82,500 lb	37,500 kg
Transport weight (with kelly 3 / 80 ft)	79,500 lb	36,150 kg
Transport weight (with kelly 5 / 155 ft)	85,000 lb	38,600 kg
Transport weight (short mast-kelly 5 / 55 ft)	74,500 lb	33,850 kg

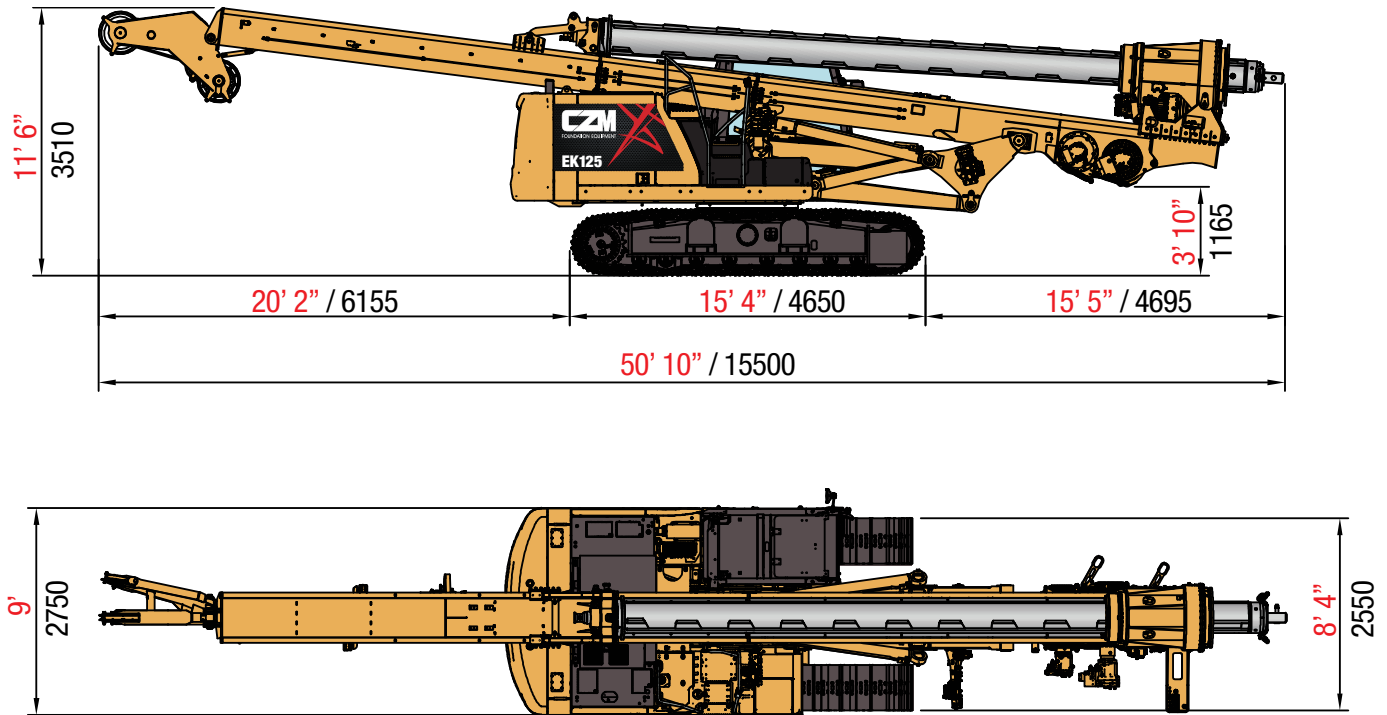
GENERAL DATA

Overall height (standard mast)	52 ft	15,815 mm
Overall height (short mast application)	28 ft 5 in	8,650 mm

GENERAL DIMENSIONS



TRANSPORT POSITION GENERAL DIMENSIONS



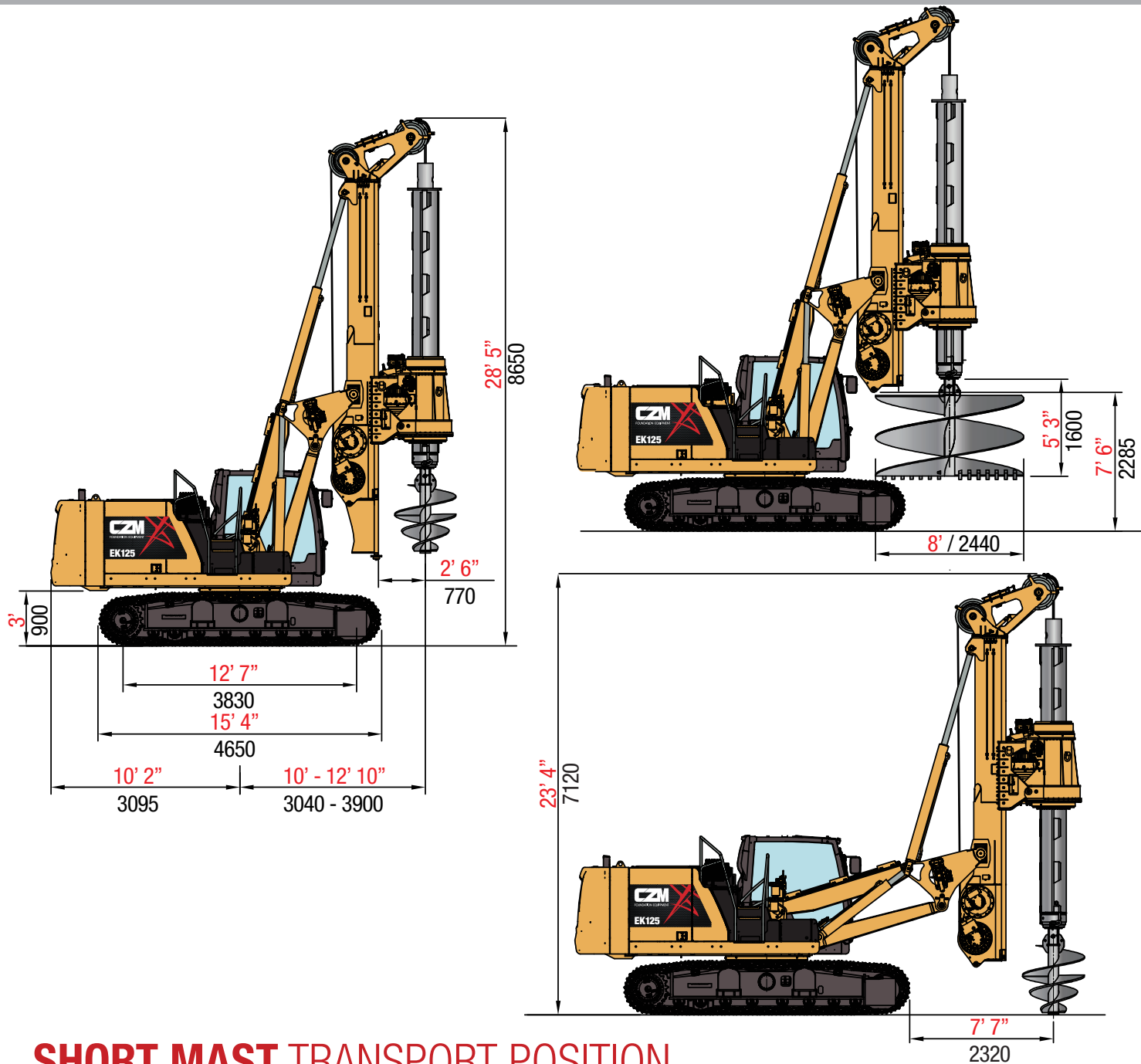
Weight: 82,500 lb / 37,500 kg (with standard kelly bar 4/120 ft)

MAJOR COMPONENT WEIGHTS

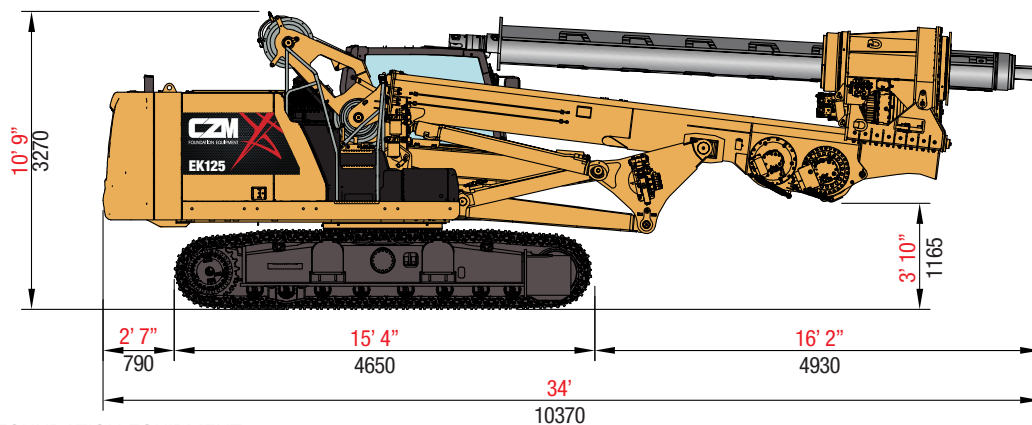
Standard Kelly bar 4/120ft	10,780 lbs / 4,900 kg
Rotary	6,000 lbs / 2,730 kg
Counter weight	9,040 lbs / 4,100 kg



SHORT MAST GENERAL DIMENSIONS



SHORT MAST TRANSPORT POSITION



Weight: 74,500 lb / 33,850 kg
(with standard kelly bar 5/55ft)

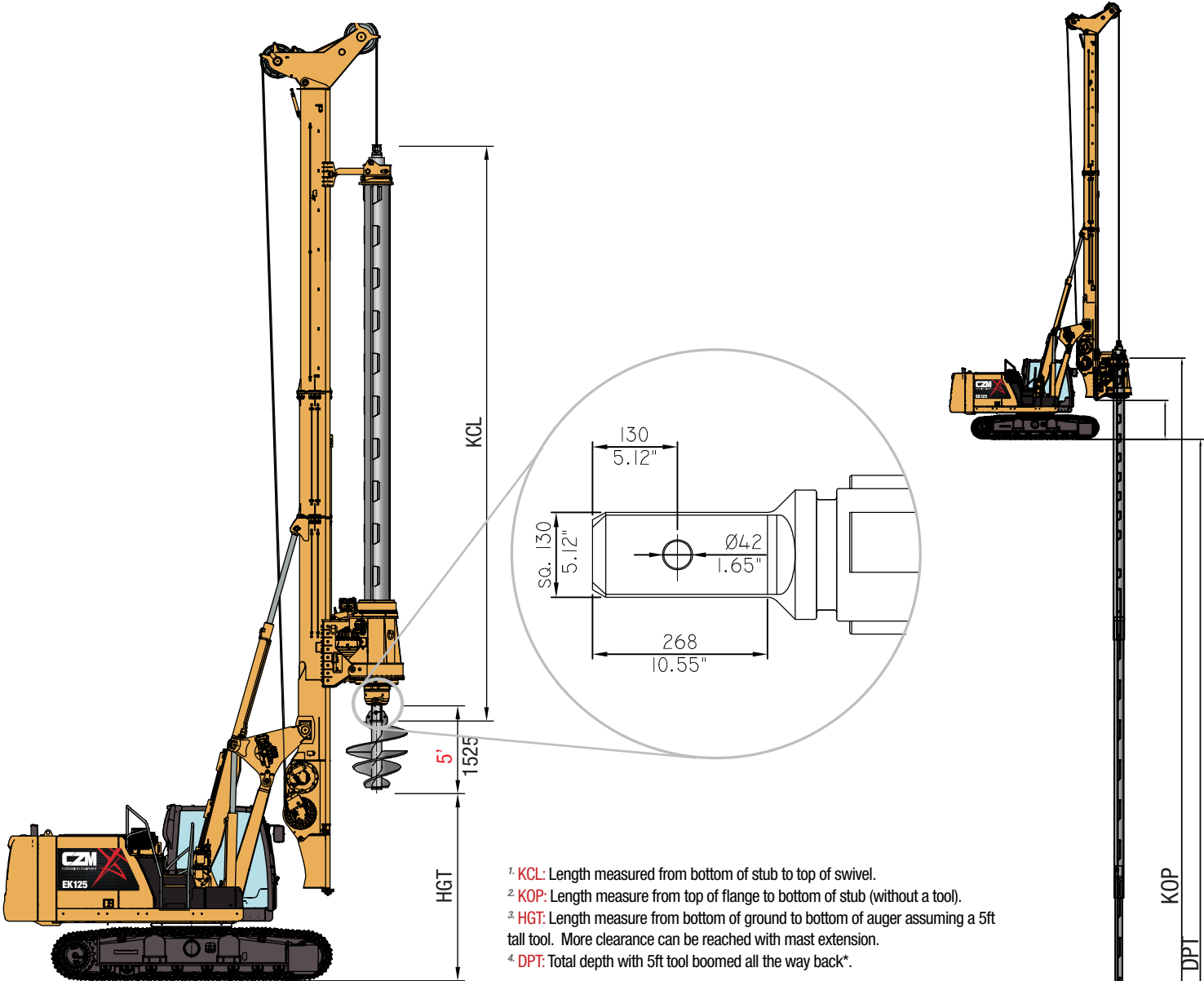


SCAN QR CODE

To view a video
of the EK125.



KELLY BAR GENERAL DIMENSIONS



KELLY BAR OPTIONS FOR STANDARD MAST

	NUMBER OF ELEMENTS	DEPTH - DPT ⁴	TRANSPORT - KCL ¹	HGT ²	KOP ³	WEIGHT
Standard 4/120 Interlock	4	120ft (37m)	37ft (11.3m)	6ft 9in (2m)	126ft 11in (38.7m)	10,780lb (4,900kg)
3/90 Interlock	3	90ft (27m)	37ft 8in (11.4m)	6ft 9in (2m)	97ft 1in (22.8m)	8,150lb (3,700kg)
5/150 Interlock	5	150ft (46m)	37ft 10in (11.5m)	6ft 9in (2m)	157ft 5in (48m)	13,640lb (6,200kg)
6/180 Friction	6	180ft (55m)	37ft (11.3m)	6ft 9in (2m)	190ft 3in (58m)	15,540lb (7,000kg)

KELLY BAR OPTIONS FOR SHORT MAST

	NUMBER OF ELEMENTS	DEPTH - DPT ⁴	TRANSPORT - KCL ¹	HGT ²	KOP ³	WEIGHT
Standard 5/55 Interlock	5	55ft (16.7m)	15ft 2in (4.6m)	5ft 2in (1.6m)	56ft 10in (17.3m)	5,070 lb (2,300kg)
6/65 Friction	6	65ft (20m)	15ft 2in (4.6m)	5ft 2in (1.6m)	59ft 4in (18.1m)	8,300lb (3,800kg)

*Boomed all the way out it gains another 5 ft and 1 in of total depth.





FOUNDATION EQUIPMENT

THE COMPANY

CZM is headquartered in Savannah, Georgia, USA. For over 40 years, we have specialized in manufacturing foundation equipment. We design and customize models for many different drilling applications including Drill shafts, CFA/cased CFA, Micropile and anchoring, piledrive and hydraulic hammers and soil improvements. We are a Caterpillar OEM (Original Equipment Manufacturer).

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Specifications are subject to change without notice.