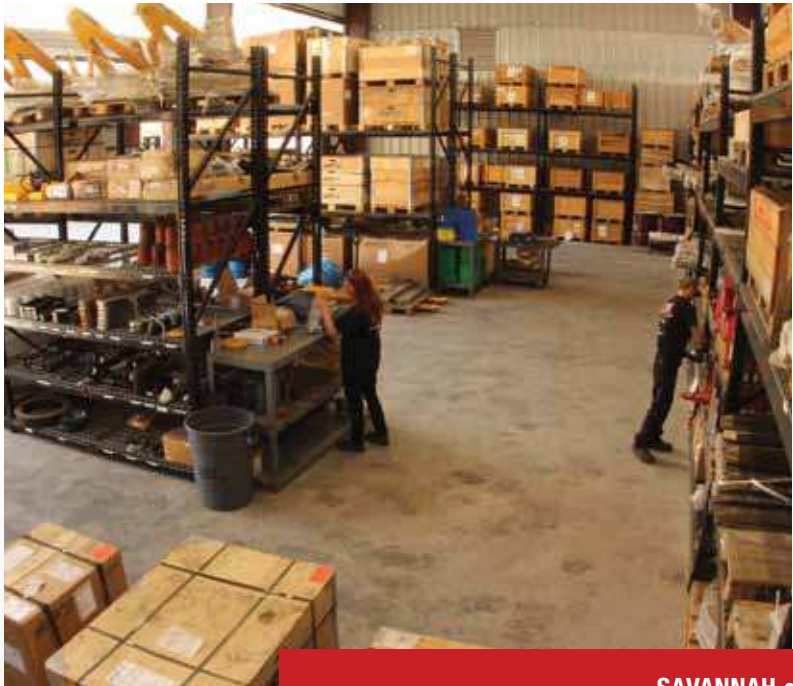


CZM
FOUNDATION EQUIPMENT



EK125HH



SAVANNAH • GEORGIA • USA

THE COMPANY

- CZM has over 40 years of foundation equipment manufacturing experience with a wide range of models for multiple applications: drilled shafts, CFA, driven piles with hydraulic hammers, secant piles, micro piles, and anchoring, among others.
- CZM Foundation Equipment's USA manufacturing facility is located in Savannah, Georgia.
- CZM Foundation Equipment has designed their models with the after sales being priority. Quality and service are the main ingredients to a quality machine, this is one of the direct reasons CZM uses Caterpillar as a base, the Caterpillar bases are not only operator and maintenance friendly but by using Caterpillar it enables the customer access to the large and already nationally established Caterpillar Network.
- CZM is the world's largest manufacturer of CFA drilling rigs, featuring the revolutionary torque mechanism "Bottom Drive CFA", an internationally recognized CZM patent.





EK125HH

Mounted on
CAT 323



APPLICATION

The EK125HH is a hydraulic pile drive machine mounted on CAT323 equipped with a free fall hydraulic impact hammer. This free fall feature has many advantages:

- Half of the life cycle maintenance free since operated by gravity.
- Less installed power and less fuel consumption therefore.
- No need of impact reaction absorption by the hydraulic circuit when ram hits the pile, thus a much higher durability and the possibility of working with any kind of bearing capacity and / or refusal specification.
- Much better rate ratio between piston weight and total hammer weight what implies on higher efficiency for same size machines.

Other important feature of the CZM hammer is the use of two external hydraulic cylinders which lift the ram up to the controlled height, quick and easy to visually, inspect and access for maintenance.

EK125HH is a compact machine of quick set up for operation and transport mode and it is a one load equipment. The 360-degree of swing and its parallelogram gives agility in the pile location and the ability of working in very tight access.

The computer in the cabin controls a precise drop height and driving frequency on the already renowned high energy transfer efficiency of this kind of hammer.

TECHNICAL SPECIFICATIONS

LEADER

Overall height	63 ft	19 m
Hammer stroke	46 ft	14 m
Max Pile Length	45 ft	13.7 m
Max Pile Diameter	20 in	500 mm

HYDRAULIC HAMMER – HH 3600

Piston weight	8,000 lb	3,600 kg
Hammer total weight	14,600 lb	6,600 kg
Blows per minute	0 – 80	0 – 80
Drop Height	0 – 4 ft	0 – 1.2 m

MAIN WINCH

Max. pull-force	40,400 lbf	18,400 kgf
Line speed	200 ft/min	60 m/min
Cable diameter	-	24 mm
Drum diameter - 1st layer	18.5 in	465 mm

AUXILIARY WINCH

Max. pull-force	22,000 lbf	10,000 kgf
Line speed	180 ft/min	55 m/min
Cable diameter	¾ in	-
Drum diameter - 1st layer	16.5 in	420 mm

MAST INCLINATION

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

DIESEL ENGINE CAT320E L TIER IV (CAT C6.6 ACERT)

Gross Power – SAE J1995	164 hp	122 kw
Displacement	403 in ³	6,6 L
Fuel Tank	108 gal	410 L

HYDRAULIC SYSTEM (CAT320E L TIER IV)

Hydraulic Pressure	5,076 psi	350 bar
Flow rate (main circuit)	2x49 gal/min	2x185 L/min
Flow rate (auxiliary circuit)	14.3 gal/min	54 L/min
Pilot circuit pressure	569 psi	40 bar
Pilot circuit flow	6.4 gal/min	24.3 L/min
Hydraulic oil tank capacity	37.8 gal	143 L

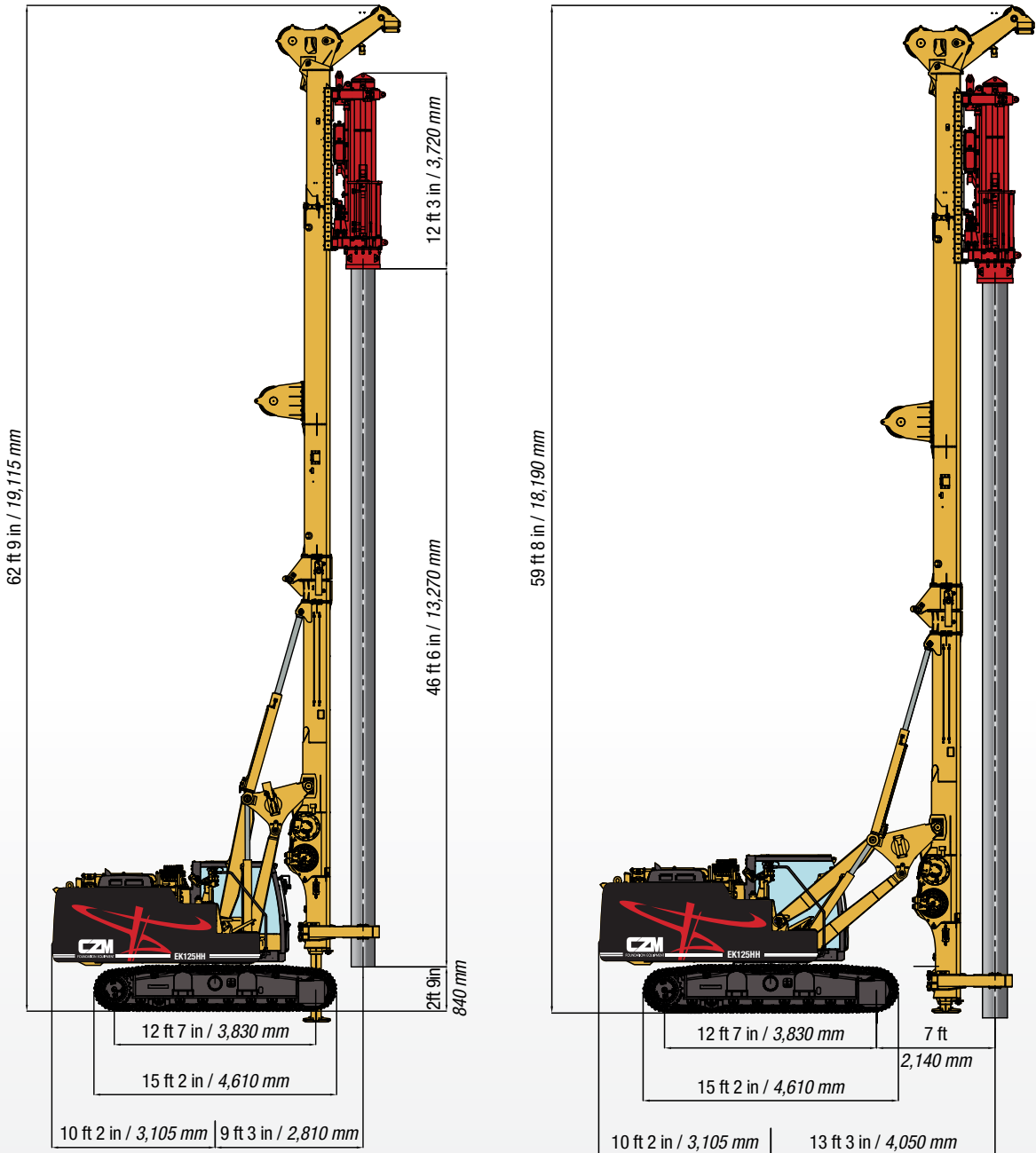
UNDERCARRIAGE

Track length	15 ft 2 in	4,610 mm
Length to Center of rollers	12 ft 7 in	3,830 mm
Transport position width (retracted)	8 ft 4 in	2,560 mm
Working position width (extended)	11 ft 10 in	3,600 mm
Shoes width	23.6 in	600 mm
Max. travel speed	1.93 mph	3.1 km/h

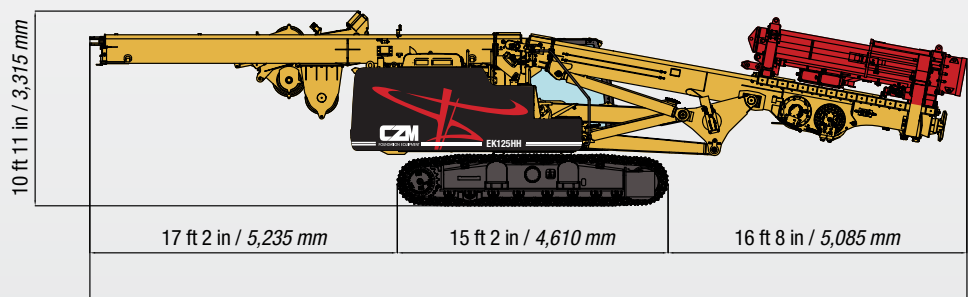
TRANSPORT

Transport height	10 ft 11 in	3,315 mm
Length	49 ft	15 m
Transport width	9 ft	2,750 mm
Transport weight with hammer	90,000 lb	41,000 kg
Hammer weight	14,600 lb	6,600 kg
Transport weight without hammer	75,400 lb	34,400 kg

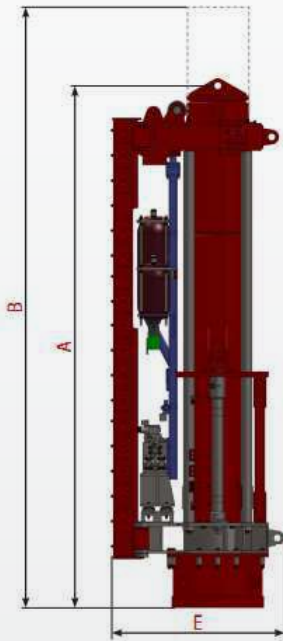
GENERAL DIMENSIONS



TRANSPORT POSITION



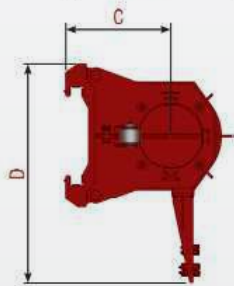
HYDRAULIC HAMMER TECHNICAL SPECIFICATIONS



DESCRIPTION

	HH3600
Piston weight	8,000 lbs
Total weight with standard pile cap	14,600 lbs
Blows per min.	0 - 80 1/min
Max. energy per blow	32,000 ft.lbs
Drop height	4 ft

HH3600

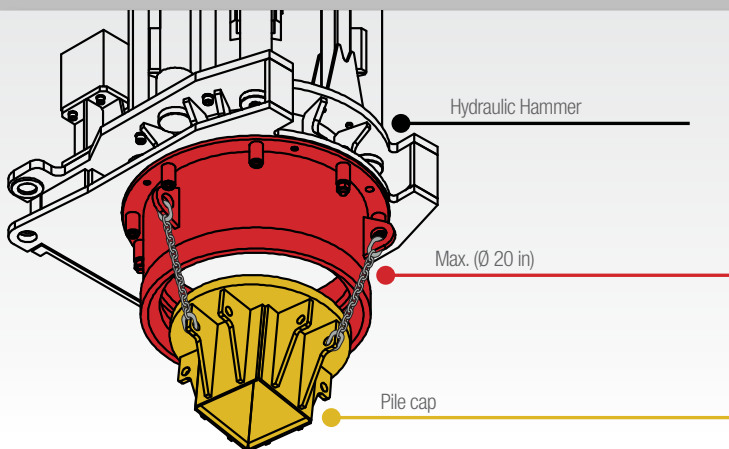


DIMENSIONS

A	12 ft 2 in
B	16 ft 6 in
C	2 ft 5 in
D	5 ft
E	4 ft



PILE CAP



The pile caps are designed and manufactured according to the customer need.

COMPUTER SYSTEM FOR HYDRAULIC HAMMER

- Accurate laser height control
- Remote access and online tracking
- Touch screen or mouse operation
- Special support for PDA test



Operator friendly



Low maintenance due to CAT chassis and free fall hydraulic hammer



Good stability and easy to displace



One load transport with quick set up





USA
SAVANNAH

WWW.CZM-US.COM

145 East Industrial Boulevard
Pembroke • Georgia • 31321
United States • Phone: (912) 200-7654



Specifications are subject to change without notice.