



EK200LS CASED CFA

Courtesy of Crane.Market



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.





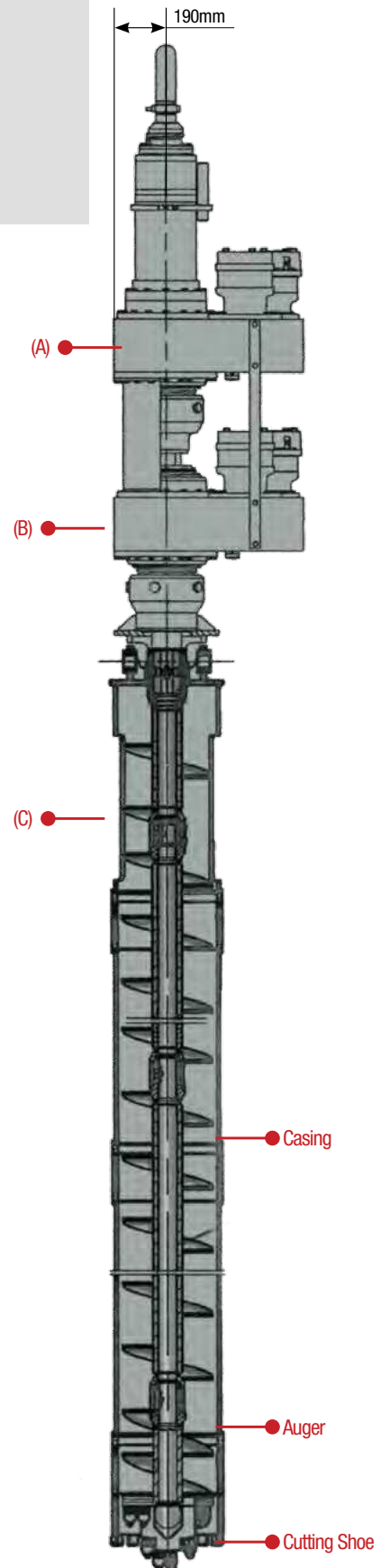
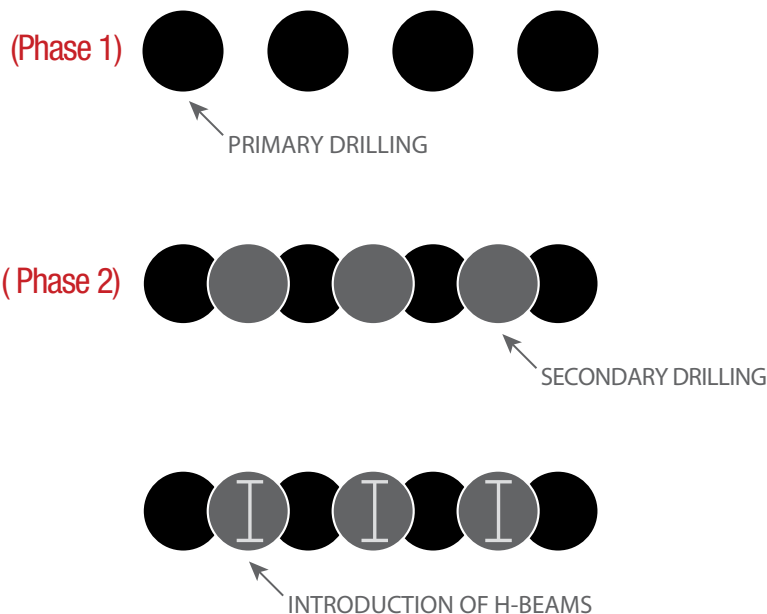
CASED CFA SECANT PILE WALL

- Double rotary head.

Rotary A drives the auger clockwise.
Rotary B drives the casing counter clockwise.

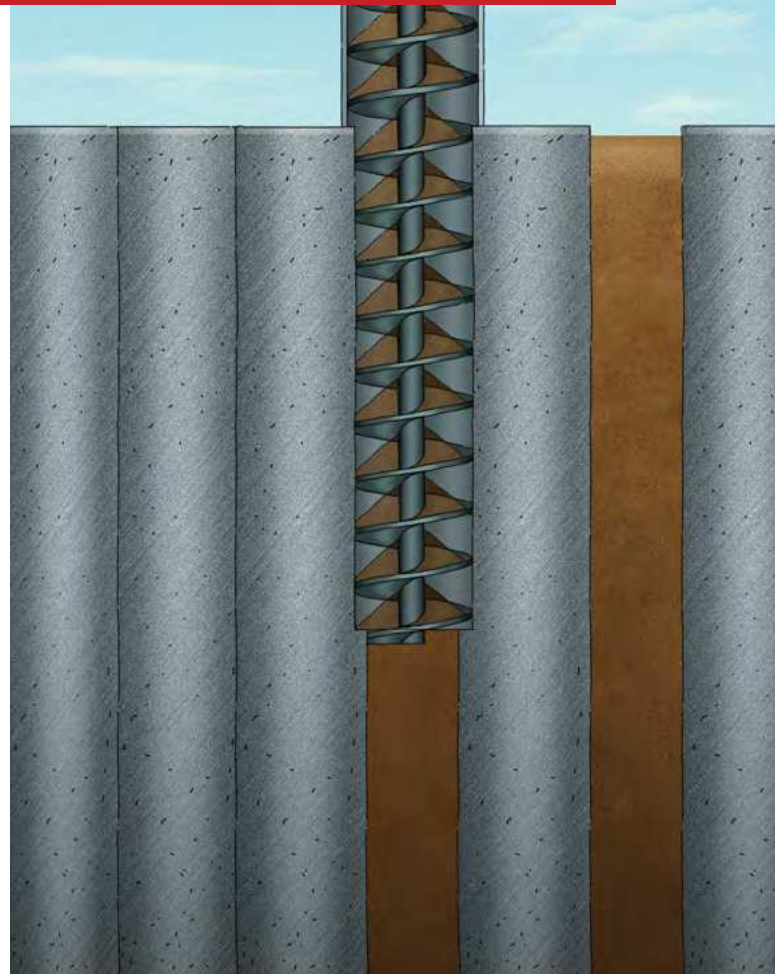
- Dirt comes out of windows in casing coupling (C).
- A first row of continuous flight auger piles are made like shown in Phase 1. (Primary drilling).
- The next day a second row is made between the primary row with the casing shoe cutting 1 ½ inches into each one of the primary piles. Secant to them. Phase 2 (Secondary drilling)
- Following, H-beams or Cages are introduced in the secondary piles.

EXECUTION WITH H-BEAMS



SYSTEM ADVANTAGES

- Very fast method. Similar to CFA and Auger Cast. Production of 12 to 16 piles per day, or more, are usual.
- A guide formwork is made so that every pile is drilled in exact place, secant one to the other. See pictures bellow.
- The perfect guidance and the rigidity of the single piece casing, allow a perfect verticality and excellent sealing.
- The swivel and auger inner passage of 4 inches, allow the use of grouting or concrete.



MAKING THE GUIDE FORMWORK USING STYROFOAM



USING THE GUIDE TO START HOLE



EK200LS CASED CFA

TECHNICAL SPECIFICATIONS

GENERAL DATA

Base	CAT® 336
Diesel Engine	CAT® C9.3 ACERT
Power Net	300 HP
Max. Drilling Diameter with Casing	24 inches
Max. Drilling Diameter only with Auger	40 inches
Max. Depth	60 ft
Max. Torque Rotary of the Casing	57.000 ft.lb
RPM at Max. Torque	21
Max. RPM	40
Max. Torque Rotary of the Auger	50.000 ft.lb
RPM at Max Torque	24
Max. RPM	45
Max. Hydraulic Pressure	5060 Psi
Max. Feed Force	47.000 lb
Max. Extraction Force	91.000 lb
Auxiliary Winch	8.000 lb
Transport Weight	127.000 lb

CASED SECANT PILES DIMENSIONS

STANDART OUTSIDE CASINGS:

16 inches	406 mm
18 inches	457 mm
20 inches	520 mm
24 inches	608 mm





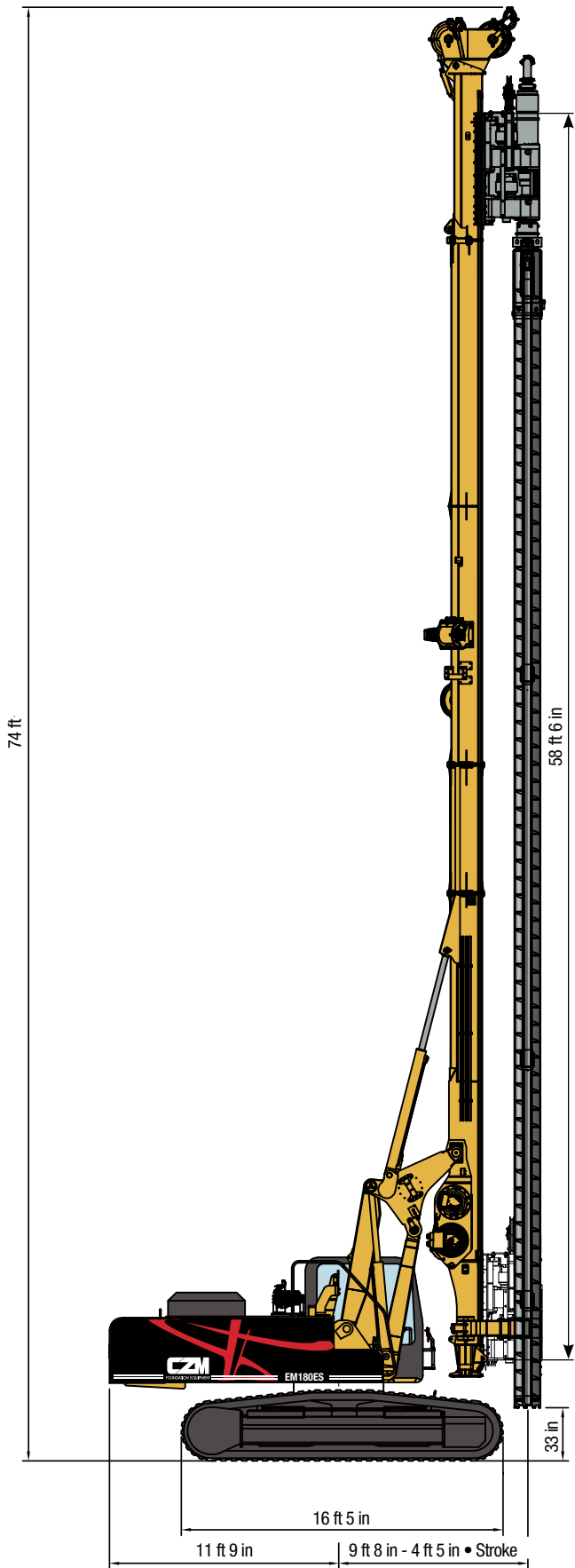
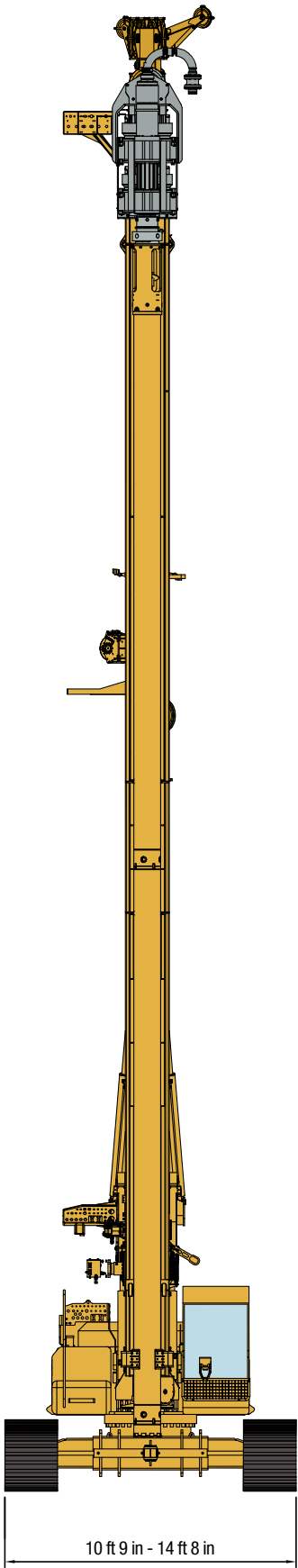
TIGHT ACCESS AND CLOSE TO THE WALL APPLICATIONS



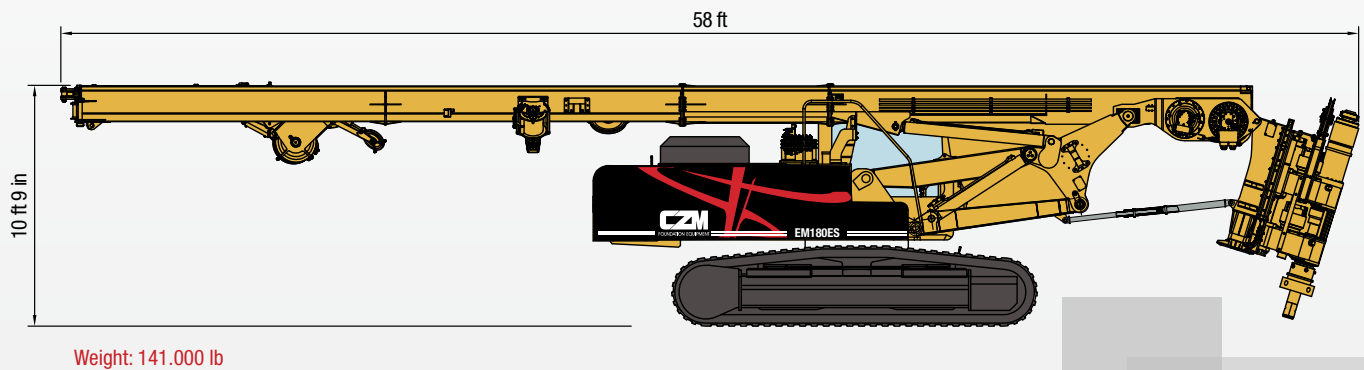
IDEAL FOR ROUND UNDERGROUND CONSTRUCTION



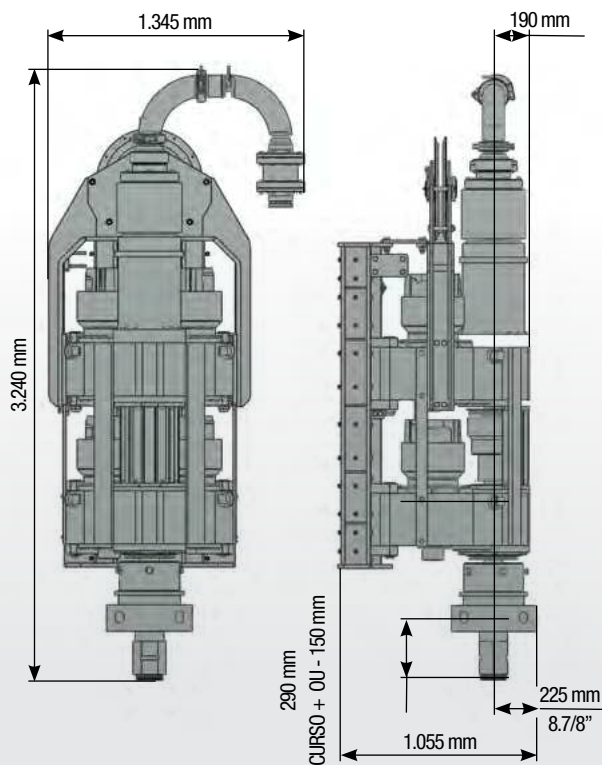
GENERAL DIMENSIONS



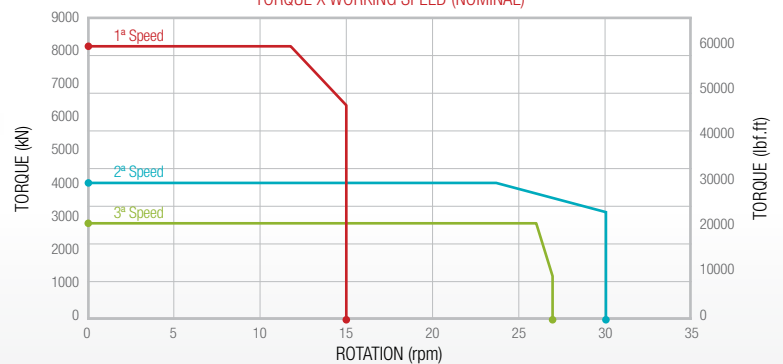
TRANSPORT POSITION



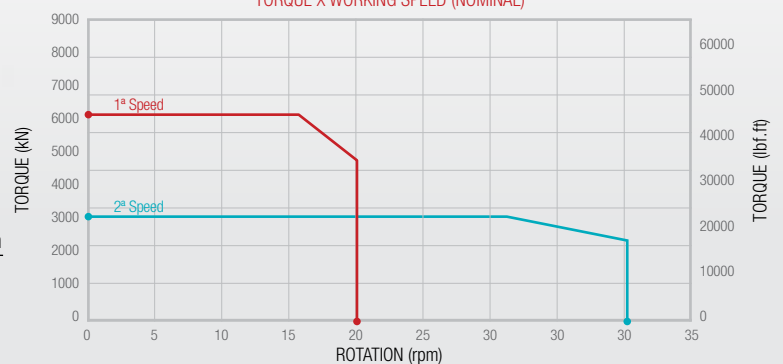
ROTARY HEAD - EURODRILL 6035



CASING TORQUE X RPM
TORQUE X WORKING SPEED (NOMINAL)



AUGER - TORQUE X RPM
TORQUE X WORKING SPEED (NOMINAL)









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CZM
FOUNDATION EQUIPMENT

Specifications are subject to change without notice.

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