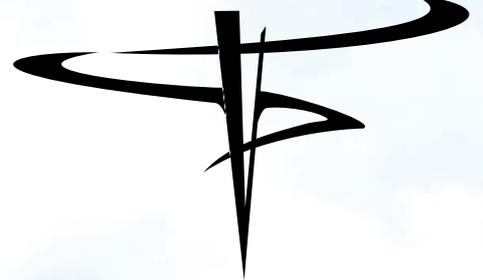
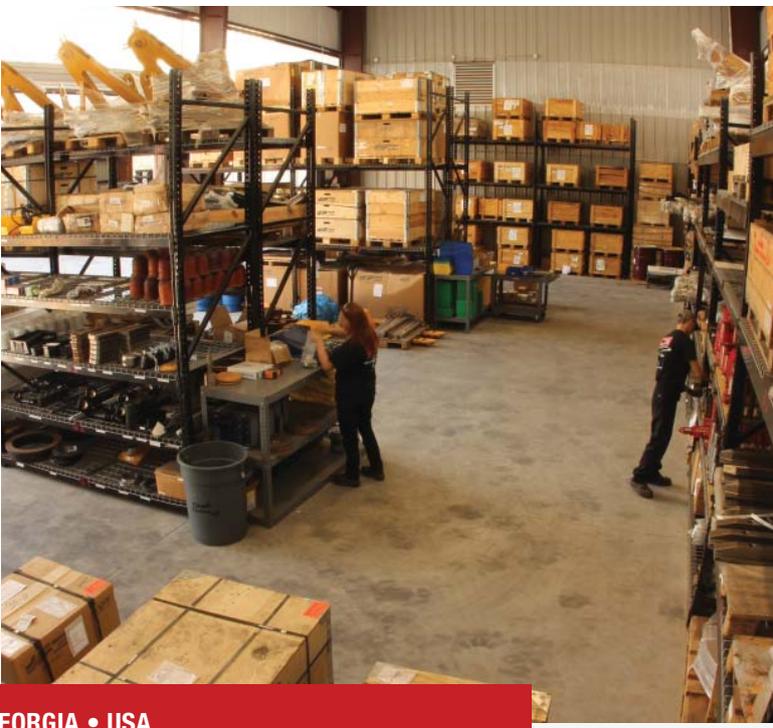


CZM

FOUNDATION EQUIPMENT



EK90 M



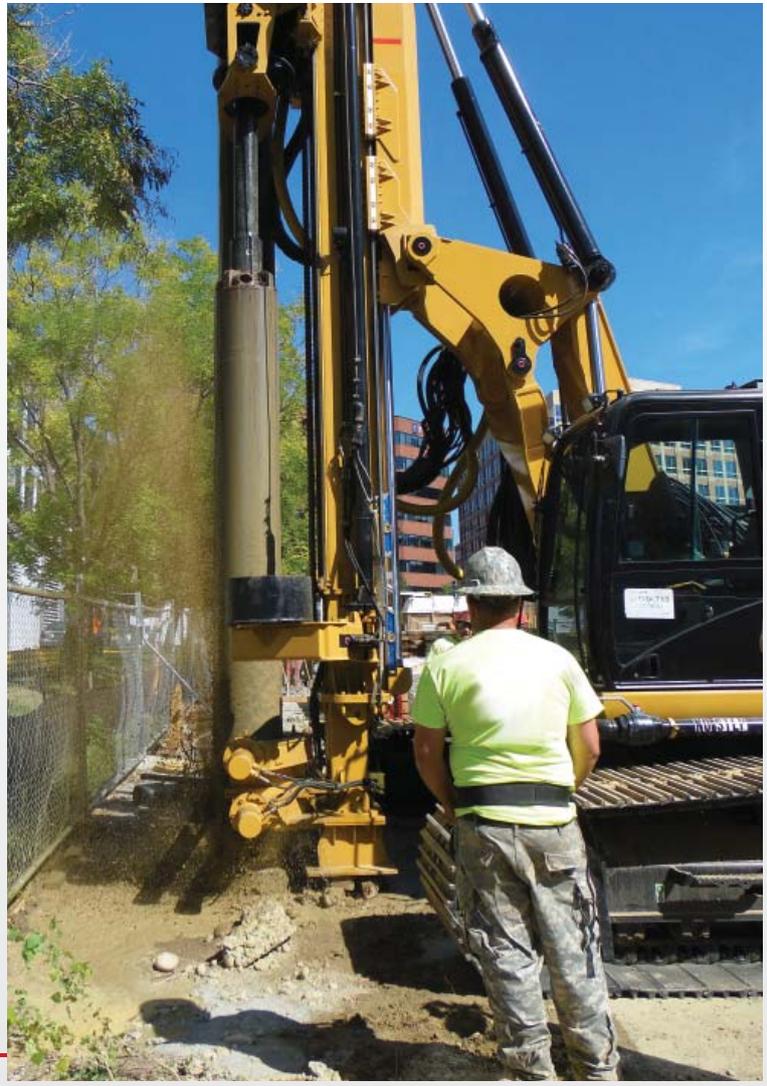
SAVANNAH • GEORGIA • USA

KANBAN KIT

THE COMPANY

- CZM has over 40 years of foundation equipment manufacturing experience with a wide range of models for multiple applications.
- CZM Foundation Equipment's USA Factory is located in Savannah, Georgia.
- CZM has designed their models with the after sales being priority. Quality and service are the main ingredients to a dependable machine. For these reasons CZM uses Caterpillar as a base. The Cat bases are not only operator and maintenance friendly but by using it enables the customer access to the large Caterpillar Network.
- Using Cat the after sales of CZM can focus on the parts and services of the rig itself. Special Spare Parts KANBAN Boxes are available for costumers and dealers. Through them, managing of the inventory is visual, and requires no special systems or skilled personnel.





EK90M

The CZM **EK90M** is a model designed to be a “Multifunctional Drill Rig” mounted on a CAT® 320 excavator base.

It can work for applications of Micropiles, Jet Grouting, Segmented Flight Auger, Interlocking Kelly Bar and Tiebacks.

It is designed in a way that the conversion between these applications is simple. No major changes of hoses are necessary and it can be done in just a few hours.

For some applications it is equipped with a double tool feeder, one on each side of the main mast. This allows drilling and

extracting casings or augers without manhandling.

These versions are also equipped with radio remote control to a fast and safe operation.

Operation can be done either from the remote control or the cabin.

The Parallelogram, the Mast Vertical Slide and the Rotary Shift Slide are great features, usefull for different processes of drilling operations.

TECHNICAL SPECIFICATIONS

GENERAL DATA

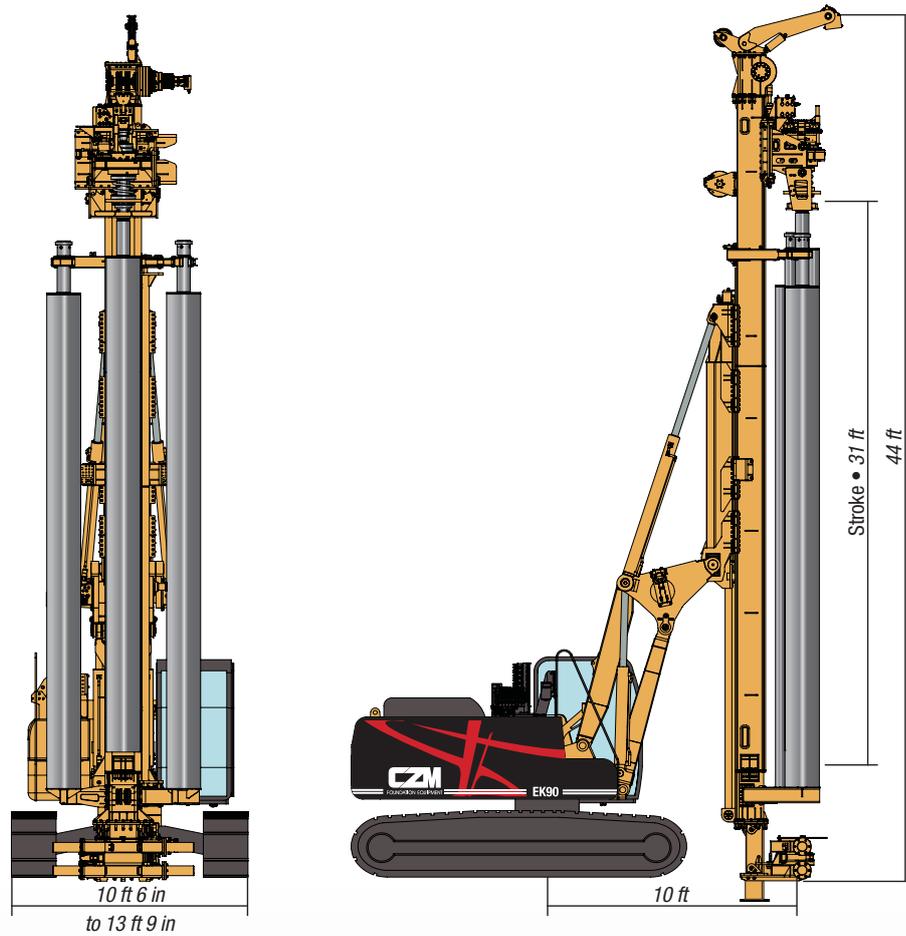
Base excavator	CAT® 320	Side shift stroke	32 in
Diesel engine	CAT® C.4	Mast slide stroke	11 ft
Power	140 HP	Auxiliary winch	6.600 lb
Hydraulic pressure	5.076 psi	Standard rotary max. torque	34.000 lb.ft
Transport weight (average)	65.000 lb	Standard rotary speed	21 - 118 rpm
Rotary stroke (std)	31 ft		

*** Technical specifications common to all versions**

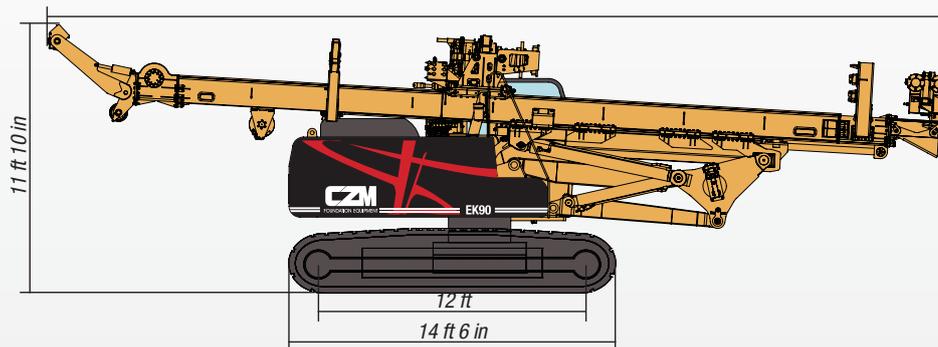


GENERAL DIMENSIONS

MICRO-PILING APPLICATION



TRANSPORT POSITION



TECHNICAL SPECIFICATIONS

MICRO PILE APPLICATION

Standard stroke multi pass	25 ft
Single pass stroke	31 ft
Feed/Extract force	44,300 lb
Max feed rate	6 ft/min
Double rotary options	Eurodrill single and double
Standard double clamps	18 in
Side shift stroke	32 in

JET GROUTING APPLICATION*

Single stroke depth	80 ft
Maximum rod diameter	5 in

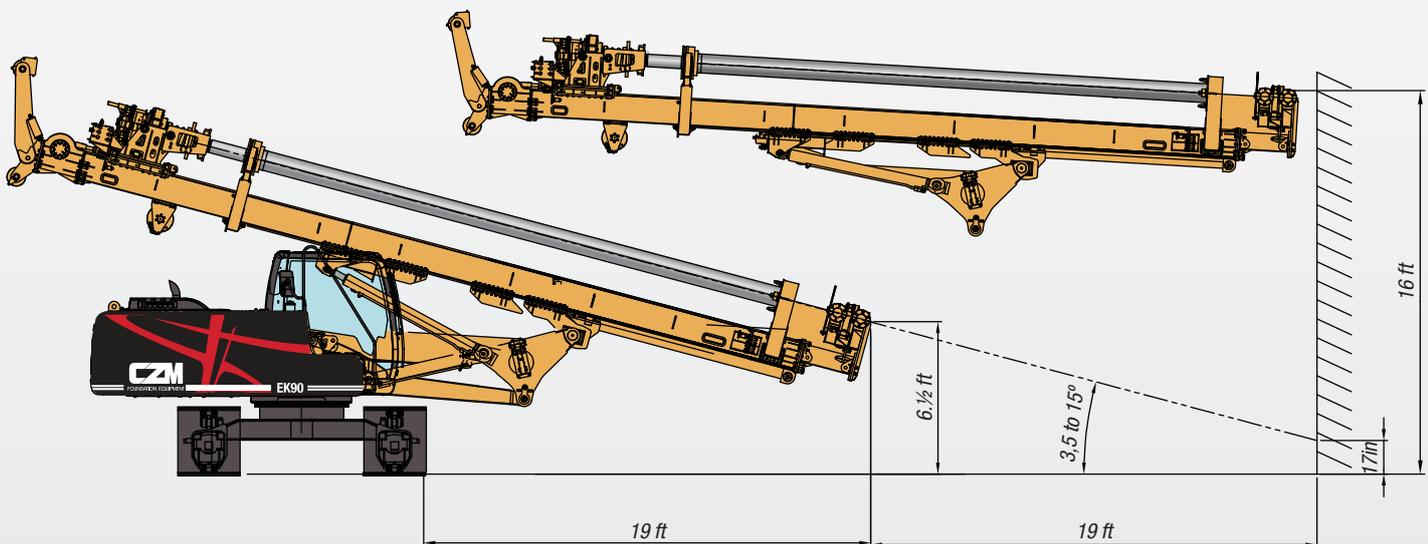
*See general dimensions on page 11.

Radio remote control:

Standard on Micro pile version.

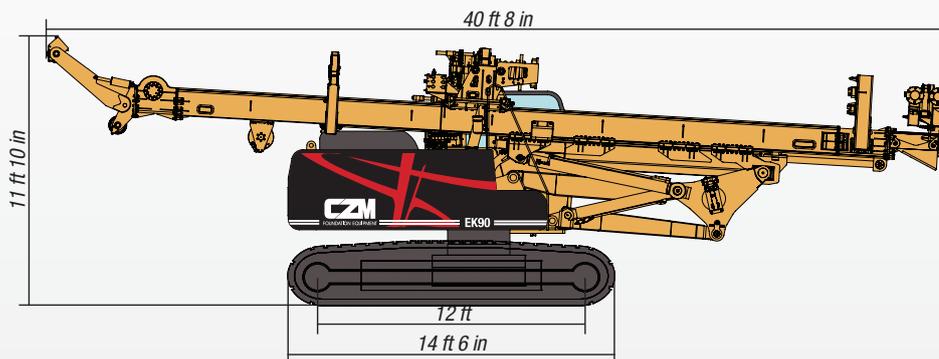
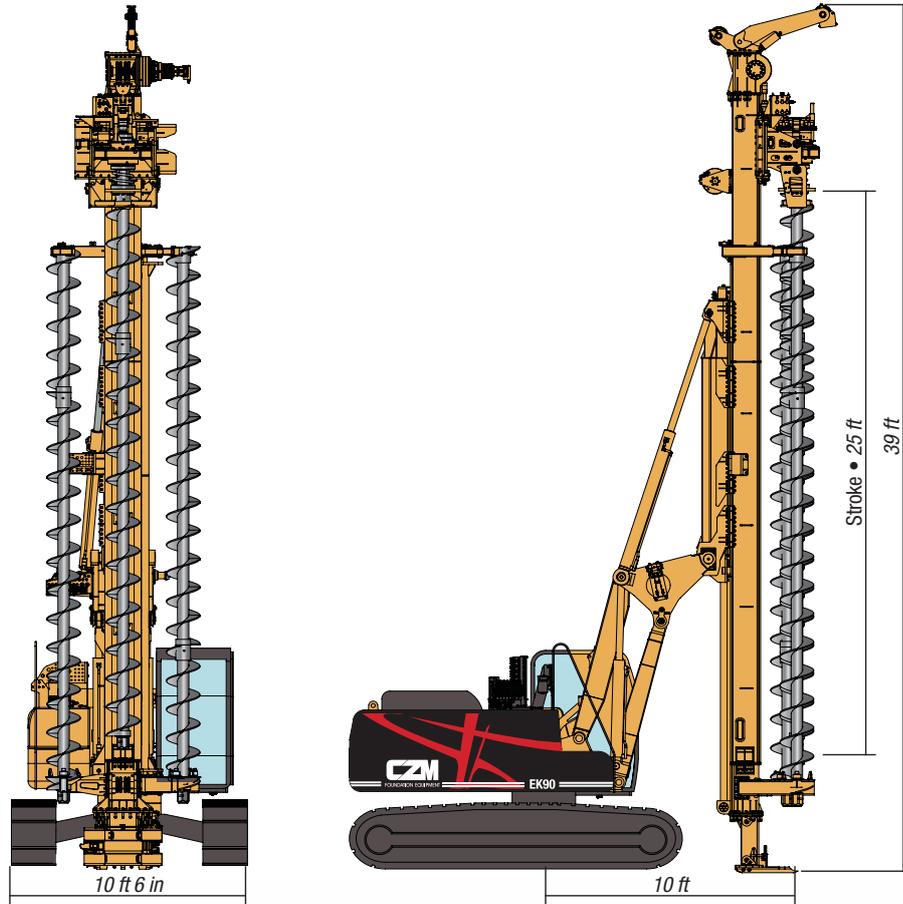


HORIZONTAL



GENERAL DIMENSIONS

SEGMENTED FLIGHT AUGER APPLICATION



TECHNICAL SPECIFICATIONS

SEGMENTED FLIGHT AUGER APPLICATION

Max. drilling diameter	18 in
Max. depth with - 3 segments	65 ft
Inside diameter auger concrete passage	4 in
Extraction force	44,300 lb
Down crowd	44,300 lb
Max. feed / extraction speed	6 ft/min

HORIZONTAL DRILLING APPLICATIONS

Max. depth (limited to 2 segments)	52 ft
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Radio remote control:
Standard on flight auger application.

SEGMENTED FLIGHT AUGER (SFA)

SEGMENTED FLIGHT AUGER APPLICATION

Max. drilling diameter	500 mm	18 in
Max. depth with - 3 segments	20 m	65 ft
Inside diameter auger concrete passage	100 mm	4 in
Extraction force	20,1 ton	44.300 lb
Down crowd	20,1 ton	44.300 lb
Max. feed / extraction speed		6 ft/min

HORIZONTAL DRILLING APPLICATIONS

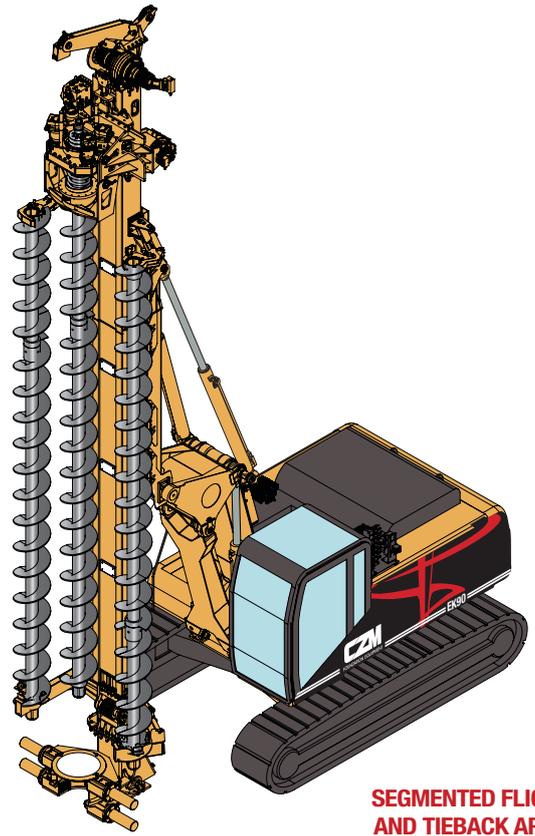
Max. depth (limited to 2 segments)	16 m	52 ft
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RADIO REMOTE CONTROL:

Standard on flight auger application.



**CONTINUOUS
FLIGHT AUGER**



**SEGMENTED FLIGHT AUGER
AND TIEBACK APPLICATION**



GENERAL DIMENSIONS

JET GROUTING VERSION







CZM
FOUNDATION EQUIPMENT

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**GEORGIA
SAVANNAH**

Specifications are subject to change without notice.