

CZM

FOUNDATION EQUIPMENT



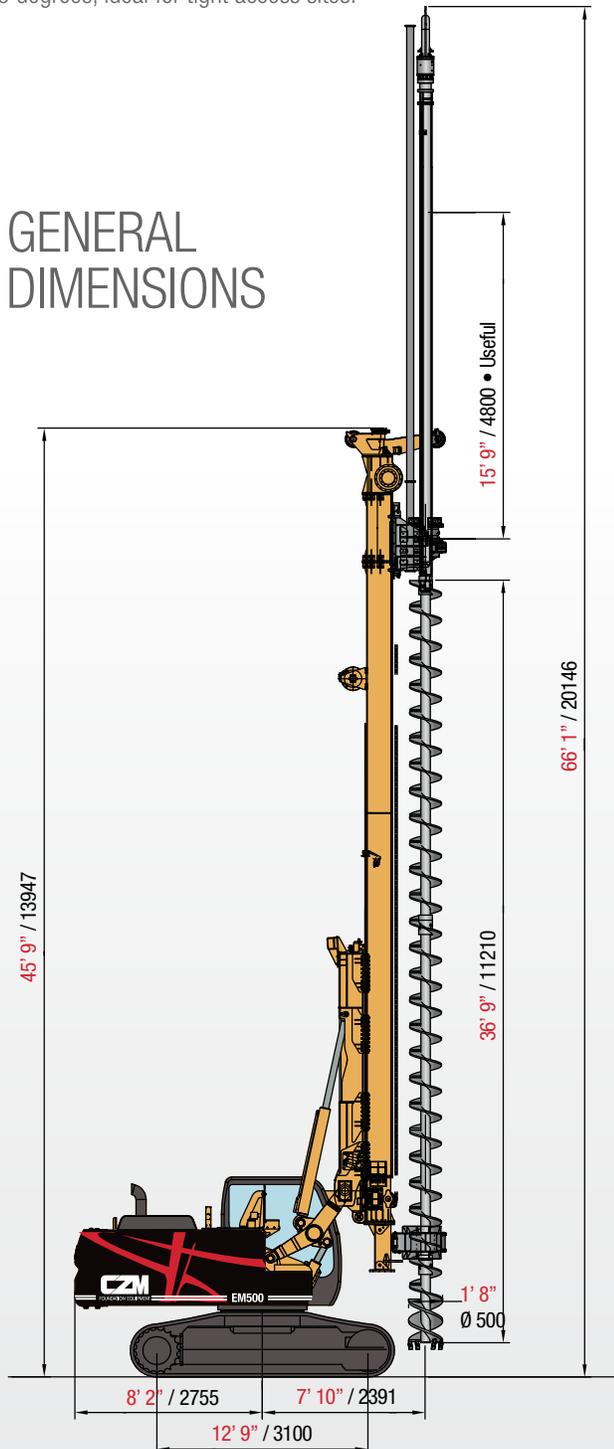
EM500

EM500 ON JOHN DEERE 160G LC

APPLICATION & TECHNICAL SPECIFICATIONS

The **EM500** model from CZM was designed to be a compact one load CFA machine what makes for a much quicker set up at the job site. It may be mounted on a JohnDeere 160 tier3 or on a CAT 160 tier4 base chassis. It has a continuous crowd performed by chain all along with the rotary stroke. This feature combined with its torque gives a great productivity to the machine and allows the penetration of the auger in very hard layers of soil. **EM500** is also equipped with a mast slide, that makes it possible the swing of 360 degrees, ideal for tight access sites.

GENERAL DIMENSIONS



CFA APPLICATION

Drilling depth (auger + extension)	(36.7 + 15.7) = 52 ft 6 in
Drilling Diameter (max.)	20 in 500 mm

ENGINE - John Deere Power Tech 404SH

Exhaust Emission Standard	EPA Tier 3 / EU Stage IIIA
Gross Power (ISO 9249)	121 hp 90 kW
Displacement	275 in ³ 4,5 L

ROTARY HEAD

Maximum torque (nominal)	36.165 lbf.ft 5.000 kgf.m
Working speed	18-40 rpm 18-40 rpm

CROWD SYSTEM (Winch)

Pull Down Force (nominal)	44.100 lbf 20.000 kgf
Pull Up Force (nominal)	44.100 lbf 20.000 kgf
Line speed (max.)	65 ft/min 20 m/min
Stroke	28 ft - 8 in 8.750 mm

MAST SLIDE SYSTEM

Stroke	4 ft 11 in 1.500 mm
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AUXILIARY WINCH

Maximum pull-force 1st Layer (effective)	6.615 lbf 3.000 kgf
Line speed (max.)	100 ft/min 31 m/min
Cable diameter 1st Layer	1/2 in 12,7 mm

MAIN HYDRAULIC SYSTEM

Main circuit pressure (max.)	5.000 psi 345 bar
Main circuit flow rate (max.)	92 gpm 348 lpm
Pilot circuit pressure (max.)	580 psi 40 bar
Pilot circuit flow rate (max.)	9 gpm 34 lpm

UNDERCARRIAGE

Track length	12 ft 10 in 3.920 mm
Length to center of rollers	10 ft 2 in 3.100 mm
Transport position width	8 ft 10 in 2.690 mm
Track shoe width	28 in 700 mm

TRANSPORT

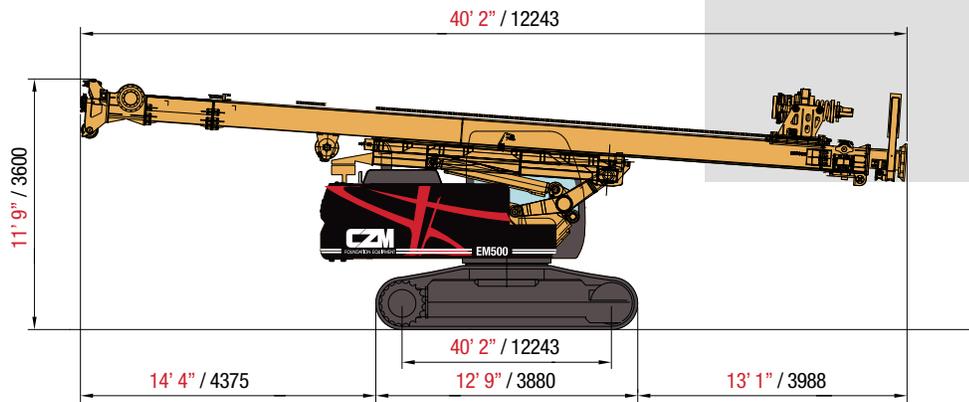
Overall Height	11 ft 9 in 3.600 mm
Transport Length	40 ft 2 in 12.250 mm
Transport Width	8 ft 10 in 2.690 mm
Transport Weight	55.550 lb 25.200 kg

GENERAL DATA

Overall Height (working position)	66 ft 20.150 mm
Operation Weight	67.250 lb 30.500 kg
Ground Pressure	10 psi 0,7 kgf/cm ²

TRANSPORT POSITION GENERAL DIMENSIONS

TRANSPORT POSITION





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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