



FOUNDATION EQUIPMENT



EK305 CFA



Contagem • Minas Gerais • Brasil



Savannah • Georgia • USA

THE COMPANY

CZM has 50 years of experience in manufacturing foundation equipment, offering a wide range of models for the most diverse applications, including bored piles, continuous flight auger (CFA) piles, hydraulic hammer driven piles, secant piles, micropiles, ground anchors, and others.

CZM operates two manufacturing facilities: one located in Contagem, Minas Gerais, Brazil, from where it exports to more than 30 countries, and another located in Savannah, Georgia, USA. The company also maintains after-sales service and technical support units in Dallas, Texas, and Los Angeles, California, as well as a parts manufacturing facility in Ravenna, Italy.

EK305





TECHNICAL SPECIFICATIONS

DRILLING

Maximum Depth with Mast Extension / Without Extension	40 m / 36 m
Continuous Flight Auger with Mast Extension / Without Extension	34 m / 30 m
Kelly Extension – Useful Length / Total Length with Bend	6 m / 10.4 m
Maximum Diameter – Up to 40 m / Up to 32 m Depth	1.0 m / 1.2 m
Parallelogram Mast	Long Type
Mast Inclination	±3° Front / ±3° Side

GEARBOX

1st Gear	33.000 kg.m @ 7,5 a 12 RPM
2nd Gear	19.000 kg.m @ 13 a 20 RPM
3rd Gear	13.500 kg.m @ 19 a 28 RPM

EXTRACTION FORCE

Line Pull	27.500 KGF
Drum Diameter	560 mm
Extraction Force (x4)	110,000 KGF
Cable Diameter	28,5 mm (1.1/8")

AUXILIARY WINCH

Line Pull	10,000 kgf
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BASE

Diesel Engine	Tier 3 C9.3B 420 HP / 315 KW
Maximum Hydraulic Pressure	350 BAR
Diesel Tank Capacity	600 L
Hydraulic Flow	389 LMP x 2 + 147
Operating Weight	102 Ton
Transport Weight	73.000 kg (with gearbox and without counterweight)
Transport Weight	65.000 kg (without gearbox and without counterweight)

TRACKS

Overall Length	6.45 M
Track Shoe Width	800 MM
Transport Width	3.5 M
Operating Width	4.9 M

CZM DIGITAL COMMAND AND CONTROL SYSTEM

CZM drilling rigs are equipped with a state-of-the-art digital control system composed of programmable modules and displays developed for demanding mobile equipment applications. Components communicate through a CAN network, recognized for its robustness and reliability, and feature an IP67 protection rating, ensuring resistance to dust and water.

- Auto Tilt (automatic mast leveling)
- Automatic rotary gearbox shifting (3 gears)
- Automatic main winch speed shifting (2 speeds)
- Block Rotary (automatic rotary control)
- Real-time monitoring of:
- Torque, Main and auxiliary winch force (kgf), Rotary speed (RPM), Mast inclination

The system also includes a remote-access module via 3G/4G network, allowing the CZM after-sales team to perform parameter adjustments, diagnostics, and software updates remotely.

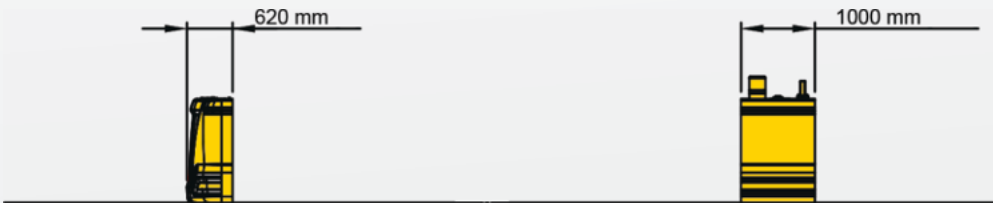
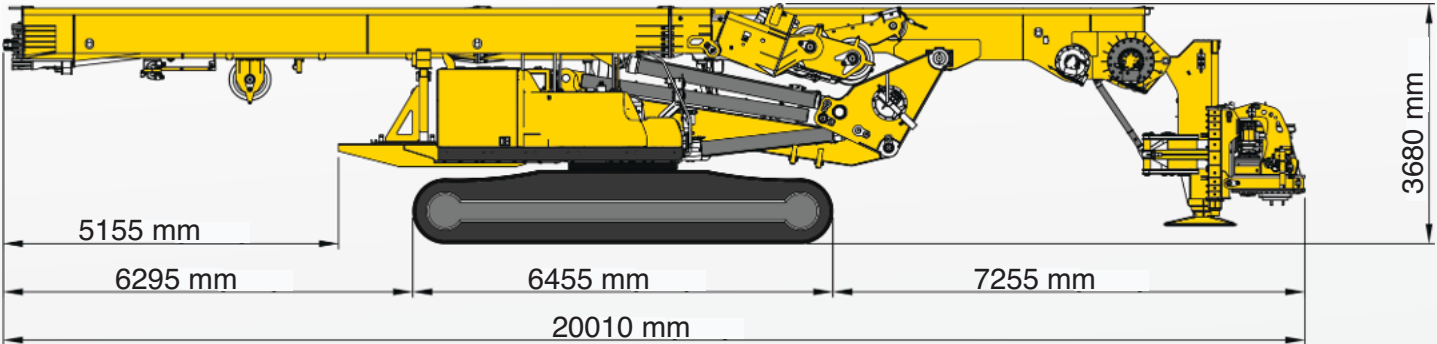
- Up to 15% greater fuel efficiency.
- Up to 15% reduction in maintenance costs.
- Three operating modes: Power, Smart, and Eco, which automatically adjust the engine and hydraulic system according to drilling conditions.
- Standard Product Link system, allowing monitoring of: Machine location, Operating hours, Fuel consumption, Productivity, Idle time, Diagnostic codes.



AFTER SALES MONITORING



TRANSPORT POSITION

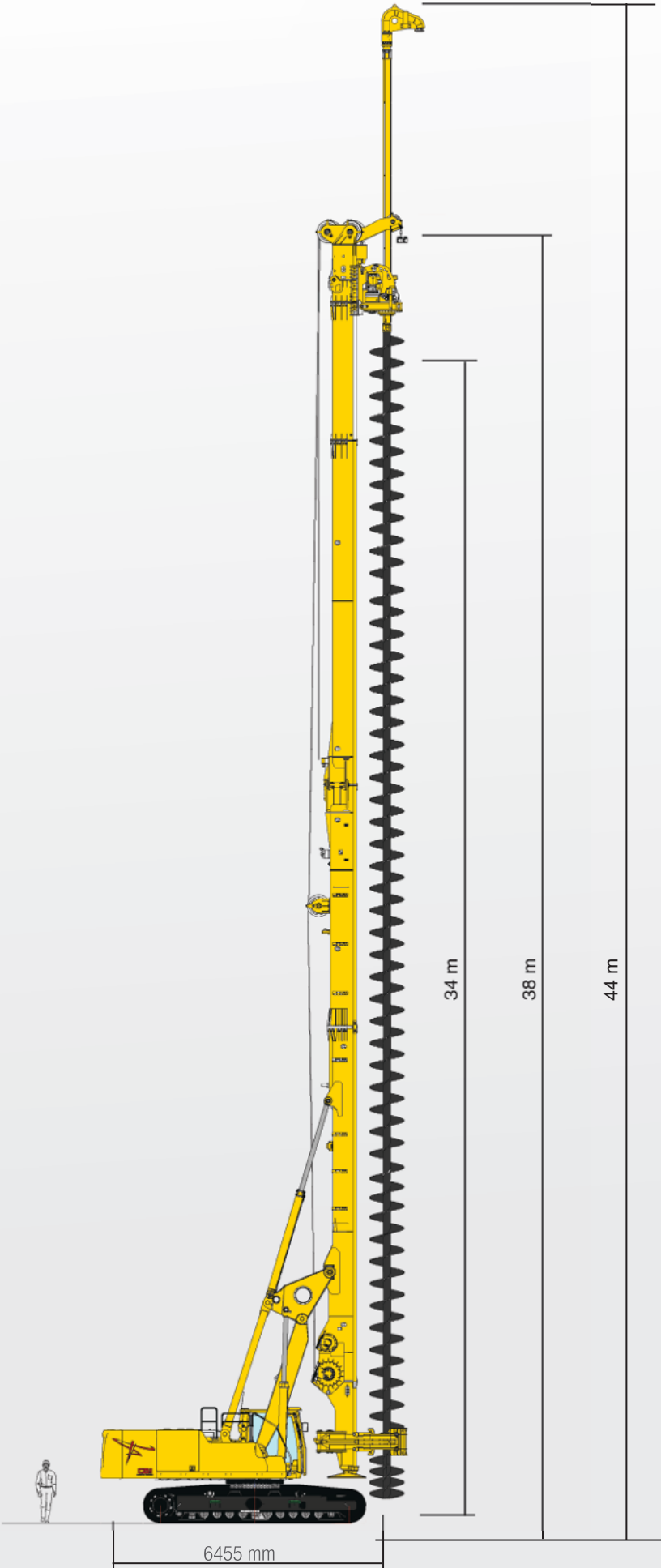


Width: 2960 mm
Weight: 7.6 Ton

Width: 2963 mm
Weight: 8.55 Ton



GENERAL DIMENSIONS









FOUNDATION EQUIPMENT



CONTAGEM

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