



ES24

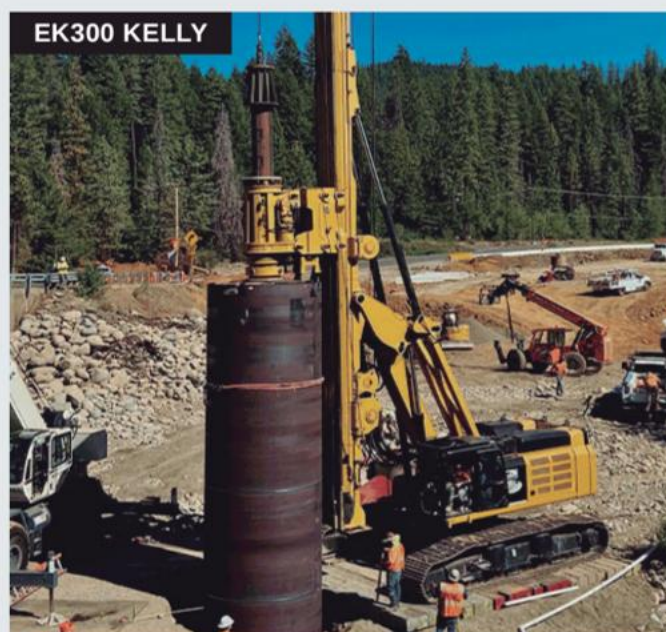


Savannah • Georgia • USA

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, tiebecks, and others.

CZM operates three manufacturing facilities: the USA factory in Savannah, Georgia; the Brazilian factory in the Belo Horizonte area, MG; and the Italian factory in the Ravenna area, Italy. We are leader in the USA and Brazil, and have made over 2,500 rigs, working in more than 30 countries. Our rigs are mounted on Caterpillar Bases.





Belo Horizonte • Minas Gerais • Brazil



Service Centers in USA, Brazil and Italy



Alfonsine • Ravenna • Italy



ES24

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The ES24 is a middle size CFA Dedicated Equipment. This continuous flight auger rig was designed to perform most of CFA medium size jobs. Offering a drilling capacity of up to 24 meters deep and 800 mm in diameter, which makes it a highly profitable investment.

Features:

- Transport: the ES24 is transported with no need to dismantle any component. Its upper mast folds and the counterweight stay assembled, which allows an easy and quick set-up on site.
- High-performance base carrier: manufactured by CAT, the base carrier is backed by technical support across the entire CAT network. This ensures that parts and service are immediately available and at affordable cost, thanks to the partnership with CZM and CAT-OEM / Dealers.
- Equipped with Next Generation CAT NG engine and hydraulic system, controlled by advanced digital technology, ES24 delivers remarkable hydraulic and mechanical efficiency, reaching fuel savings of over 15%. That efficiency also translates into high performance.
- The CZM and CAT digital systems offer online monitoring control and trouble diagnostics. This gives access to operating and maintenance data in real time, making management and supervision of the work easier.
- Live maintenance and diagnostic support from one of the three CZM factories often eliminates the need for a technician on site.
- The ES24 stands out as a robust and efficient solution for everyday CFA application.



CZM OPERATING COMPUTER

CZM DIGITAL COMMAND AND CONTROL SYSTEM

- Automatic gear shifting for the rotary head (3 gears) and the main winch (2 speeds).
- Display with key information: torque measurement, line pull measurement (main and auxiliary winch), rotary head speed (rpm), mast inclination and remote access to the machine by the CZM aftersales team.

And more:

- Up to 15% better fuel efficiency and 15% savings in maintenance costs with the new generation of Caterpillar base carriers.
- Three power modes: Power, Smart and Eco, which automatically match engine and hydraulic power to the drilling conditions.
- Telemetry system.
- The new-generation Caterpillars also come with PRODUCT LINK as standard, which provides: location, machine hours, fuel consumption, monitoring of productivity, idle time and diagnostic codes.



TECHNICAL SPECIFICATIONS

DRILLING

Max. Diameter	800 mm
Max. Depth with Extension	24 m
Extension Usable Length	6 m
Max. Depth without Extension	18 m
Max. Torque	12,000 kgf.m
Rotation at Max. Torque	9 rpm
Max. Rotation — 2nd Speed	30 rpm
Max. Rotation — 3rd Speed	40 rpm
Extraction	60,000 kgf
Ground Pressure	0.79 kgf/cm ²
Operating Weight	53,000 kg

CAT 320 BASE

Installed Power	119 kW / 160 hp
Displacement	7.0 l
Fuel Tank	345 l

MAST INCLINATION

Forward Inclination	3 degrees
Side Inclination	2.7 / 4.8 degrees

MAIN HYDRAULIC SYSTEM

Main Circuit Pressure (max.)	350 bar
Main Circuit Flow (max.)	429 lpm

MAIN WINCH

Pull Force	15,000 kgf
Line Speed (1st Layer)	97 m/min
Rope Diameter	19 mm
Drum Diameter	391 mm

AUXILIARY WINCH

Line Pull, 1st Layer	3,000 kgf
Rope Diameter	13 mm

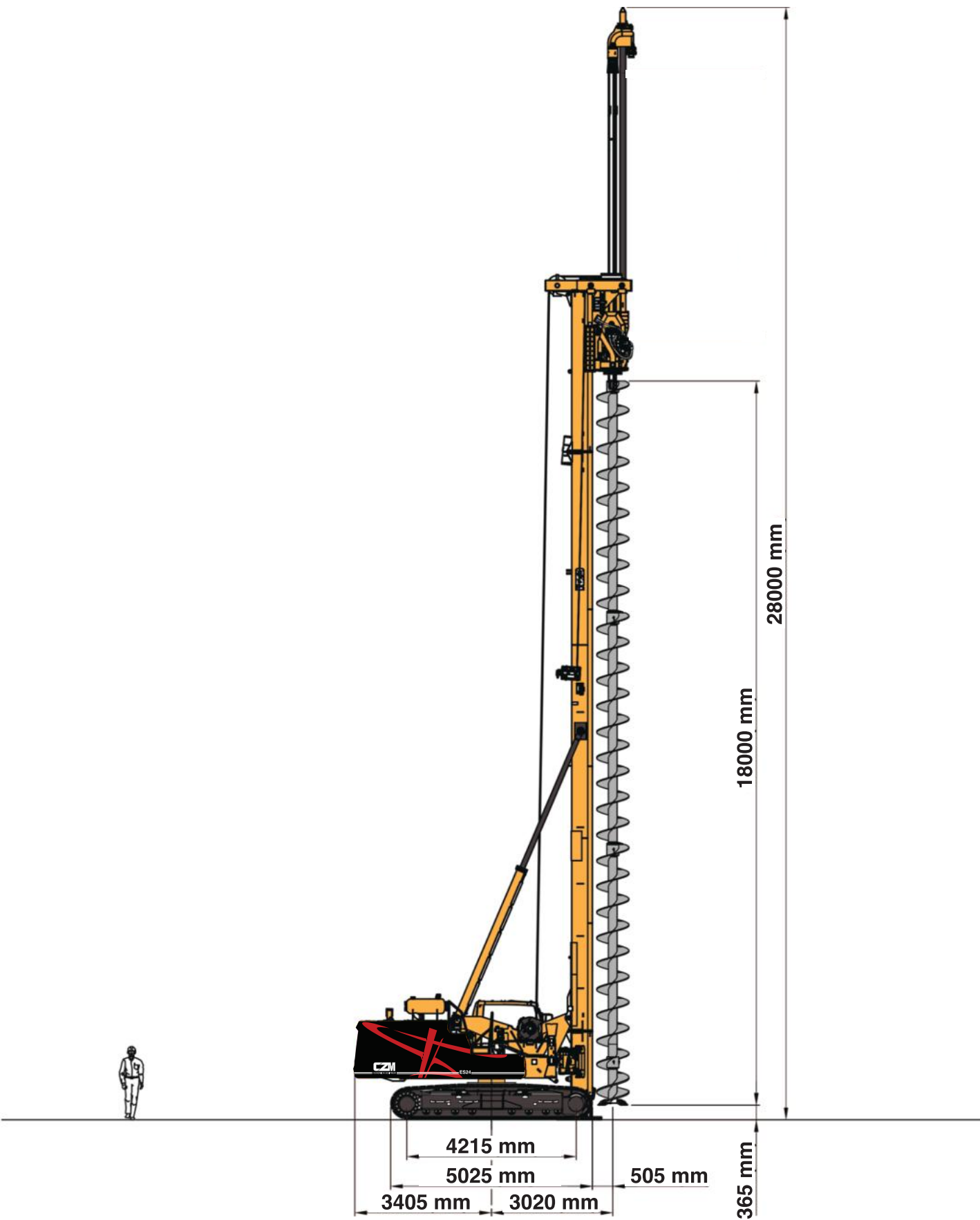
UNDERCARRIAGE

Overall Length	5,025 mm
Length between Rollers	4,212 mm
Width in Transport Position (retracted)	2,956 mm
Width in Working Position (extended)	4,126 mm
Track Shoe Width	800 mm

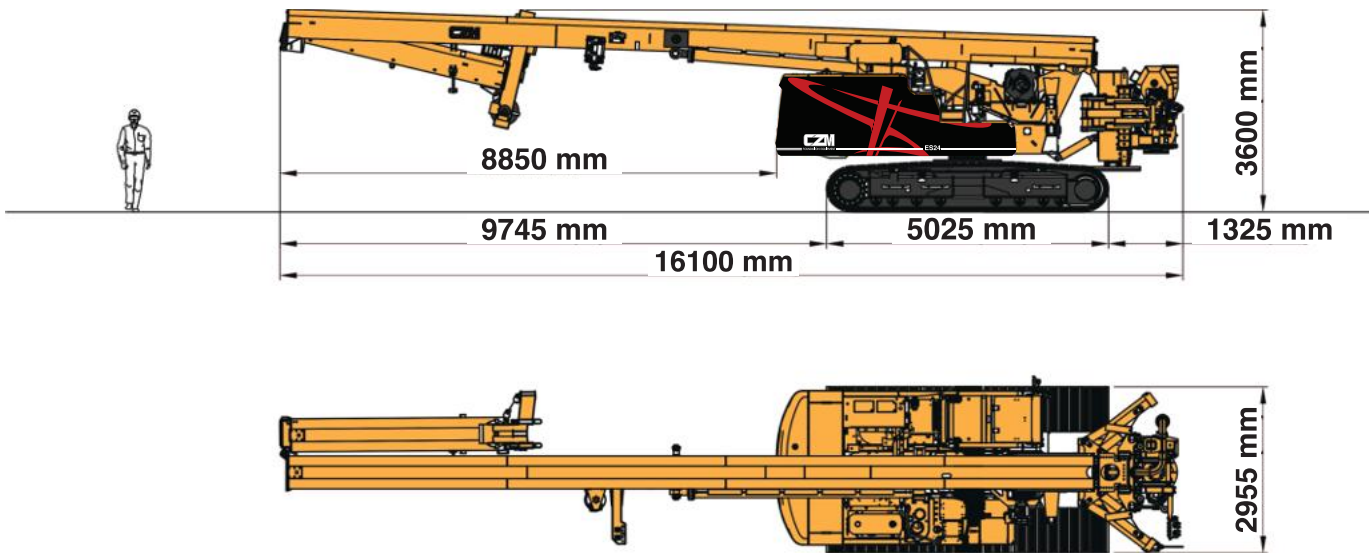
TRANSPORT

Transport Height	3,600 mm
Transport Length	16,100 mm
Transport Width	2,955 mm
Transport Weight	47,400 kg

GENERAL DIMENSIONS



TRANSPORT POSITION



ES24



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FOUNDATION EQUIPMENT



CONTAGEM

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