



ON CAT330 (NEXT GEN)

APPLICATIONS:

- Long Reach, the longest reach drill rig of its class in the market.
- Conversion to **Long Mast** and **Short Mast** options available.

BASE:

- The **new Cat 330 Next Gen** is a purpose-built machine powered by a fuel-efficient U.S. EPA **Tier 4 Final** C7.1 ACERT engine.
- Equipped with **CAT Vision Link** that allows management to monitor machine operations and maintenance data online and wireless, providing information such as location, hours, fuel usage, idle time, event codes and maintenance schedule.

UNDERCARRIAGE:

• Caterpillar **variable undercarriage** VH4400/4230/700. Reinforced frame H style variable undercarriage.

MAST:

• Reinforced mast, with high resistance steel Weldox 700.

ROTARY:

- **Robust design**, with 2 slewing bearings on top and bottom, robust pinion and main gear.
- Anti-cavitation and anti-shock system for longer hydraulic motor life.
- **1 group of Hydraulic Motor / Planetary Gear** for high torque, high speeds and long life.
- Cooling system for hydraulic motors and gearboxes.
- Power-shift for High spin-off speed (120rpm) for quick discharge of soil.
- **3 operation speeds** and 3 spinoff speeds. For high torque and high speeds.
- Automatic gear shifting, for seamless operation, high production.
- **Exchangeable keys**, bolted. No need to rebuild keys by welding inside the rotary.
- Hydraulic measurement of torque displayed in the cabin for the operator.

MAIN WINCH:

- Special groove for better cable winding and longer cable life.
- Press-roller included
- 2 gears allows for both high speed and high pulling force.
- Automatic gear shifting, for seamless operation, high production.
- Automatic down the hole winch stop. When Kelly bar reaches the bottom of the hole, winch automatic stops.
- Free willing winch during crowd operation.
- Hydraulic and mechanic brake.
- Hydraulic measurement of pulling force displayed in the cabin for operator.

KELLY BAR:

- Large inner passage on rotary allows for **large diameter pipes** (16in) and **thicker keys**.
- Thick Keys made of Wear resistant materials Hardox 450.



CAB:

- AM/FM Radio, Air conditioning/Heating
- ROPS cab
- Top protection
- LCD monitor for Engine and Hydraulics computer, with diagnostic system

CONTROL SYSTEM:

- Touch Screen Display
- Measurements:
 - Torque and rotary speeds
 - Drilling depth
 - Mast inclination X/Y axis
 - Main Winch pulling force
 - Crowd force
 - Automatic functions:
 - Auto-level of mast
 - Rotary automatic gear shifting
 - Main Winch automatic gear shifting
 - Drill Lock
 - Auto Crowd
 - Return to Center
- Maintenance and data logging

ACCESSORIES:

- Lighting package
- Refueling pump
- Cold weather start up package
- Fine filtration system
- Tool & O'ring kits

TECHNICAL SPECIFICATIONS

KELLY BAR SHORT MAST APPLICATION

Drilling Depth (5 elements; interlock kelly bar)*	55 ft	16,760 mm
Maximum Drilling Depth (Interlocking bars)	80 ft	24,380 mm
Maximum Drilling Depth (Friction bars)	100 ft	30,480 mm
Drilling Diameter	11 ft	3,350 mm

*For longer bars, mast extension is required.

ROTARY HEAD - RT 406-10

Max. torque (nominal)	77,530 ft.lbs 10,750 kg.m
Working speed of rotation	20 – 32 rpm 20 – 32 rpm
Spin-off rotation	100-140 rpm 100-140 rpm

CROWD SYSTEM

Cylinder stroke - short mast	6 ft 3 in	1,920 mm
Cylinder push force	27,000 lbf	12,300 kgf
Cylinder push speed	128 ft/min	33 m/min
Cylinder pull force	39,600 lbf	18,000 kgf
Cylinder pull speed	118 ft/min	36 m/min

MAIN WINCH

Max. pull-force - 1st Layer (effective)	27,120 lbf	12,330 kgf
Line speed - 1st Layer	412 ft/min	125 m/min
Cable diameter	3/4 in	20 mm
Drum diameter - 1st Layer	15.75 in	400 mm

AUXILIARY WINCH

Max. pull-force - 1st Layer (effective)	14,300 lbf	6,500 kgf
Cable diameter	5/8 in	16 mm
Drum diameter - 1st Layer	10.2 in	260 mm

HYDRAULIC SYSTEM

Hydraulic pressure	5,076 psi	350 bar
Flow rate (main circuit)	2x74 gal/min	2x280 L/min
Hydraulic oil tank capacity	38.8 gal	147 L
Flow rate (auxiliary circuit)	33.7 gal/min	128 L/min

UNDERCARRIAGE

Track length	17 ft	5,200 mm
Length to Center of rollers	14 ft 5 in	4,400 mm
Transport position width (retracted)	9 ft 11 in	3,000 mm
Working position width (extended)	14 ft 1 in	4,300 mm
Shoes width	28 in	700 mm
Max. drawbar pull (both tracks)	90,200 lbf	41,000 kgf
Max. travel speed	1.30 mph	2.0 km/h

TRANSPORT

Transport height	10 ft 4 in	3,150 mm
Length	41 ft 4 in	12,600 mm
Transport width	9 ft 11 in	3,000 mm
Minimum transport weight	75,700 lb	34,336 kg

GENERAL DATA

Overall height (boom in)	33 ft 2 in	10,100 mm
Overall height (boom out)	19 ft 2 in	5,825 mm
Operating weight	97,000 lb	44,000 kg

MAST INCLINATION

Backward	15°	15°
Forward	10°	10°
Sideways	12º / 12º	12º/12º

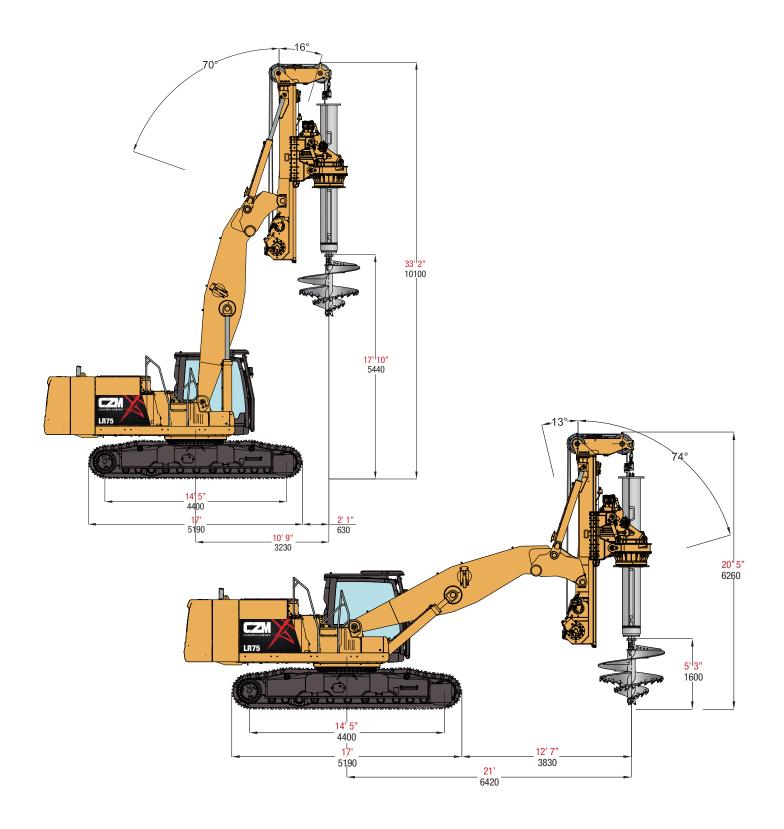
DIESEL ENGINE CAT330 NEXT GEN (CAT® C7.1 ACERT™)

Net Power – SAE J1349	273 hp	203 kW
Displacement	428 in3	7.1 L
Fuel Tank	125 gal	474 L

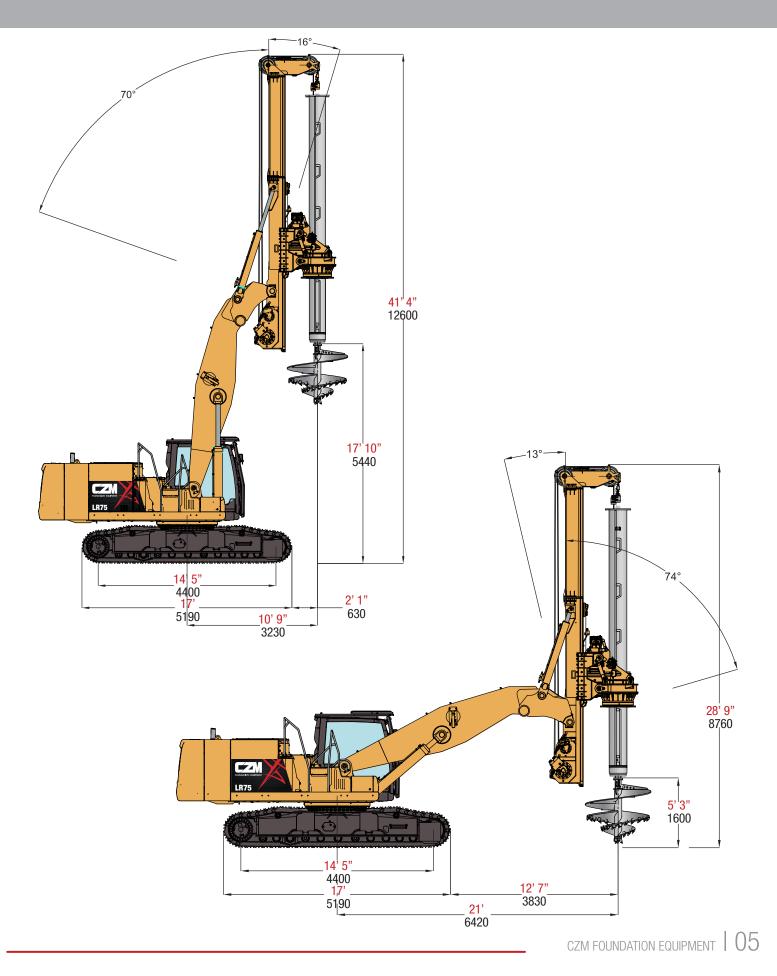




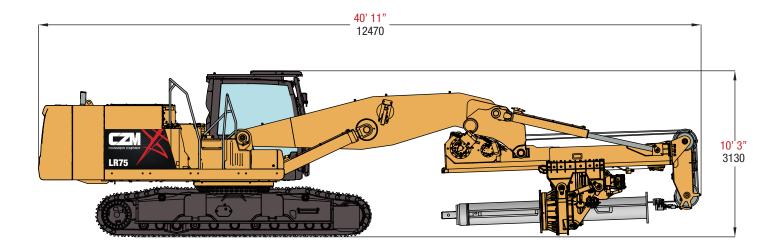
GENERAL DIMENSIONS SHORT MAST



GENERAL DIMENSIONS LONG MAST



TRANSPORT POSITION GENERAL DIMENSIONS





KELLY BAR OPTIONS FOR LR75

	NUMBER OF ELEMENTS	DEPTH - DPT	CLOSED LENGTH	WEIGHT
5/40 Interlock	5	40' (12.2 m)	12' 9" (3,890 mm)	4,740 lbs (2,150 kg)
5/55 Interlock	5	55' (16.8 m)	15' 8" (4,780 mm)	5,840 lbs (2,650 kg)
5/65 Interlock*	5	65' (19.8 m)	17' 10" (5,430 mm)	6,610 lbs (3,000 kg)
5/77 Interlock*	5	77' (23.5 m)	20' 1" (6,130 mm)	7,165 lbs (3,250 kg)
5/80 Interlock*	5	80' (24.4 m)	21' 11" (6,680 mm)	7,385 lbs (3,350 kg)
5/65 Friction*	5	65' (19.8 m)	17' 10" (5,430 mm)	6,610 lbs (3,000 kg)
5/80 Friction*	5	80' (24.4 m)	21' 11" (6,680 mm)	7,385 lbs (3,350 kg)

*Long mast only



SCAN QR CODE To view a video of the LR75.

LR75 Mounted on CAT330

LR75

330

HEFTIGHT

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-18.



▲ 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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