

# Hydraulic Excavators XE135U



Rated Power: 93 kW  
Operating Weight: 15 000 kg  
Bucket Capacity: 0.32-0.6 m<sup>3</sup>

XCMG North America Corporation  
5145 Schirlls Street, Las Vegas, NV 89118  
Email: [info@xcmgusa.com](mailto:info@xcmgusa.com)  
Phone: (Las Vegas) 725-605-2777  
(Houston) 346-409-2855  
Web: [www.xcmg-usa.com](http://www.xcmg-usa.com)





# Technical Specifications

## Engine

Designed to deliver superior performance and fuel efficiency, the Cummins T4F diesel engine fully meets the emissions regulations. To optimize machine performance, the engine uses high-pressure fuel injectors, VGT™ turbocharger inter-cooler and electronic engine controls. 4-Cycle Water-Cooled, turbocharged, Exhaust Gas Recirculation (EGR) and Selective Catalytic Reduction (SCR) with a Diesel Particulate Filter (DPF).

|                         |                                                                     |
|-------------------------|---------------------------------------------------------------------|
| Model                   | Cummins F3.8                                                        |
| No. of cylinders        | 4                                                                   |
| Rated power at 2100 rpm |                                                                     |
| (SAE J1995)             | 124.7 hp at 2200 rpm                                                |
| (SAE J1349)             | —                                                                   |
| (ISO 9249)              | —                                                                   |
| Max. torque at 1500 rpm | 369 lb.ft                                                           |
| Idle (low - high)       | 950-1100 rpm                                                        |
| Piston displacement     | 232 in <sup>3</sup>                                                 |
| Bore × stroke           | 4" × 5"                                                             |
| Starter                 | 24 V × 6.4 hp                                                       |
| Batteries - Alternator  | 2 × 12 V, 95 Ah - 24 V, 70 A                                        |
| Air filter              | Donaldson the latest PSD air filter and pre-filtered dust separator |

## Weight

|                | Shoe width (in.) | Operating weight (lb) | Ground pressure (psi) |
|----------------|------------------|-----------------------|-----------------------|
| Triple grouser | 24"              | 33,069                | 6.2 psi               |
|                | 28"              | 33,510                | 5.4 psi               |
|                | 31"              | 33,951                | 4.8 psi               |

## Hydraulic system

The XICS (XCMG Intelligent Control System) is the brain of the excavator, which minimizes the fuel consumption and enables the hydraulic system optimized and efficient for all working conditions. To harmonize the operation of the engine and the hydraulics, the XICS is connected to the engine's electronic control unit (ECU) via a data transfer link.

- The hydraulic system enables independent or combined operations - 2 travel speeds offer either increased torque or high speed
- 8 work modes, 3 power modes - Flow and pressure control of auxiliary hydraulic circuits from control panel
- Computer-aided pump flow control

### › Pumps flow & system pressure

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Main pumps, type:        | 2 × variable displacement tandem axial piston pumps |
| Maximum flow at 1800 rpm | 2×30 gal/min                                        |
| Pilot pump, type:        | Gear pump                                           |
| Maximum flow at 1800 rpm | 4.8 gal/min                                         |
| Relief valve settings:   |                                                     |
| Pressure up              | 4,978/5,405 psi                                     |
| Travel                   | 4,978 psi                                           |
| Swing                    | 3,627 psi                                           |
| Pilot                    | 569 psi                                             |

## Undercarriage

Extremely robust construction throughout - made of high-quality, durable materials, with all welded structures designed to limit stresses.

- Track shoes made of induction-hardened alloy with triple grouser
- Heat-treated connecting pins
- Hydraulic track adjuster with shock-absorbing tension mechanism

### › Number of rollers and track shoes per side

|                                  |     |
|----------------------------------|-----|
| Upper rollers (standard shoe)    | 1   |
| Lower rollers                    | 7   |
| Number of links & shoes per side | 45  |
| Overall track length             | 12' |

## Cab

The air-conditioning and heating systems are integrated for optimal climate control. An automatically controlled fan supplies the pressurized and filtered cab air, which is distributed throughout the cab from multiple vents. The heated air suspension, adjustable operator's seat includes a seat belt. The operator can adjust the ergonomic seat and joystick console separately according to his preferences.

Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

### › Noise emission

|                           |           |
|---------------------------|-----------|
| Noise level LpA(IOS 6396) | 76 dB(A)  |
| Noise level LwA(IOS 6395) | 102 dB(A) |



# Technical Specifications

## Component weights

| Item                          | Unit  | XE135U      | Remarks                 |
|-------------------------------|-------|-------------|-------------------------|
| Upper structure without front | lb    | 11,806      | With counterweight      |
| Lower structure assembly      | lb    | 10,571      | 20" shoe shoe           |
| Front assembly                | lb    | 5,732       | Without cylinder        |
| Counterweight                 | lb    | 4,960       | Standard counterweight: |
| Boom                          | ft/lb | 15'1"/1,975 | including bushing       |
| Arm                           | ft/lb | 8'3"/1,008  | including bushing       |

## Drive

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers / foot pedals guarantee smooth travel with counter-rotation on demand. The track frame protects the travel motor, brake and planetary gears. The multi-disc track brakes are spring-applied and hydraulic released.

### > Speed & traction

|                           |               |
|---------------------------|---------------|
| Travel speed (low - high) | 1.68-3.04 mph |
| Maximum traction          | 27,202 lbf    |
| Maximum gradeability      | 35° / 70%     |

## Buckets

| Bucket type | Capacity (yd³)<br>SAE | Width (in.)       |                  | Weight<br>(lb) | Boom 15'1"           |
|-------------|-----------------------|-------------------|------------------|----------------|----------------------|
|             |                       | With side cutters | W/o side cutters |                | Arm 8'3"<br>Shoe 24" |
| GP          | 0.42                  | 24                | 24               | 829            | A                    |
|             | 0.52                  | 35                | 35               | 948            | A                    |
|             | 0.78                  | 43                | 43               | 1,105          | C                    |
| HD          | 0.68                  | 40                | 40               | 1,096          | B                    |
|             | 0.78                  | 44                | 44               | 1,164          | C                    |
|             | 0.85                  | 46                | 46               | 1,186          | C                    |
| SD          | 0.68                  | 37                | 37               | 1,131          | B                    |

## Swing mechanism

The swing mechanism uses an axial piston motor, driving a 2-stage planetary reduction gear bathed in oil for maximum torque.

- Swing bearing: single-row, shear type ball bearing with induction hardened internal gear
- Internal gear and pinion immersed in lubricant

### > Swing speed & torque

|                      |              |
|----------------------|--------------|
| Maximum swing speed  | 11.6 rpm     |
| Maximum swing torque | 28,027 ft·lb |

### > Fluid capacities

|                           |           |
|---------------------------|-----------|
| Fuel tank                 | 66 gal    |
| Cooling system (radiator) | 5.5 gal   |
| Urea (def) tank           | 6.6 gal   |
| Hydraulic oil tank        | 25.1 gal  |
| Engine oil                | 2.9 gal   |
| Swing drive               | 0.5 gal   |
| Travel device             | 2x0.6 gal |

GP: General purpose; HD: Heavy duty; SD: Severe duty;

A: Suitable for materials with a density less than or equal to 2100 kg/m³ (131.1 lb/ft³)

B: Suitable for materials with a density less than or equal to 1800 kg/m³ (112.37 lb/ft³)

C: Suitable for materials with a density less than or equal to 1500 kg/m³ (93.64 lb/ft³)

Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.

# Lifting Capacities

## XE135U

Standard track width: 8'6"

| Lpr (ft)                                                                  | Lpr (ft) |         | 5.0 ft                                                                            |                                                                                   | 10.0 ft                                                                           |                                                                                   | 15.0 ft                                                                           |                                                                                   | 20.0 ft                                                                             |                                                                                     | Max. reach                                                                          |                                                                                     |        |
|---------------------------------------------------------------------------|----------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                                                                           | A        | B       |  |  |  |  |  |  |  |  |  |  | A      |
| One-piece boom<br>15'1"<br>Arm 8'3"<br>Shoe 24"<br>Counterweight 4,960 lb | 20.0     |         |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *7,084                                                                            | 5,834                                                                             |                                                                                     |                                                                                     | *6,627                                                                              | 4,325                                                                               | 10,635 |
|                                                                           | 15.0     |         |                                                                                   |                                                                                   |                                                                                   |                                                                                   | *7,540                                                                            | 5,675                                                                             | 6,488                                                                               | 3,611                                                                               | 5,893                                                                               | 3,274                                                                               | 12,579 |
|                                                                           | 10.0     |         |                                                                                   |                                                                                   | *12,083                                                                           | 9,881                                                                             | *9,266                                                                            | 5,397                                                                             | 6,369                                                                               | 3,532                                                                               | 5,139                                                                               | 2,838                                                                               | 13,631 |
|                                                                           | 5.0      |         |                                                                                   |                                                                                   | *10,953                                                                           | 8,870                                                                             | 9,484                                                                             | 5,040                                                                             | 6,231                                                                               | 3,373                                                                               | 4,483                                                                               | 2,758                                                                               | 13,948 |
|                                                                           | Floor    |         |                                                                                   |                                                                                   | *16,588                                                                           | 8,393                                                                             | 9,127                                                                             | 4,762                                                                             | 6,012                                                                               | 3,254                                                                               | 4,981                                                                               | 2,698                                                                               | 13,631 |
|                                                                           | -5.0     | *12,024 | *10,219                                                                           | 18,056                                                                            | 8,413                                                                             | 9,048                                                                             | 4,703                                                                             | 5,992                                                                             | 3,254                                                                               | 5,516                                                                               | 2,996                                                                               |                                                                                     | 12,599 |
|                                                                           | -10.0    | *21,250 | *18,056                                                                           | *16,032                                                                           | 8,453                                                                             | 9,068                                                                             | 4,722                                                                             |                                                                                   |                                                                                     |                                                                                     | 5,060                                                                               | 3,770                                                                               | 10,655 |

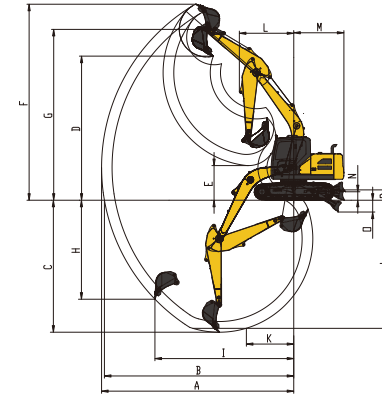
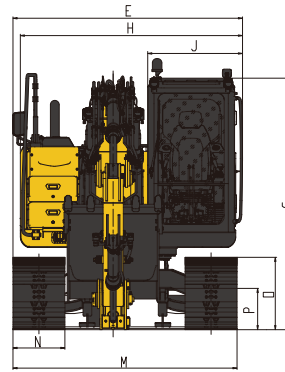
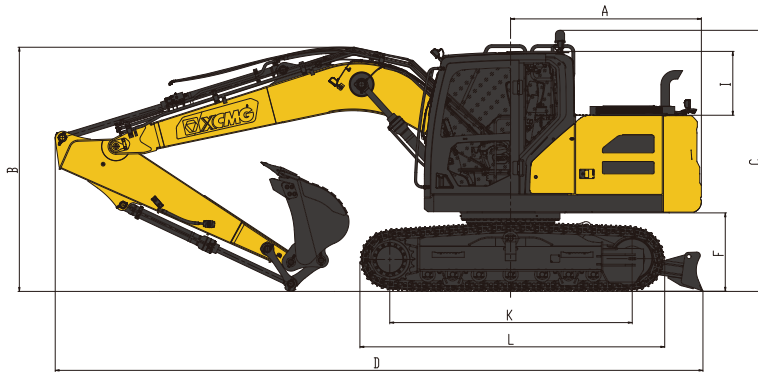
 : Over front  
 : Over side or 360°

1. The lifting capacity ratings are based on ISO10567.
2. \* The maximum lifting capacity is limited by hydraulic rather than tipping load.
3. With the machine standing on level and firm ground, the lifting capacity does not exceed 87% of the hydraulic capacity or 75% of the tipping load.
4. The operator should be familiar with the machinery operation and maintenance manuals. Local regulations concerning the operation safety of machinery must be followed at all times.
5. The lift diagrams only cover machines that are originally built by the XCMG: without lifting chains and any other lifting equipment.
6. When the excavator is used to lift or handle materials, it must comply with local regulations.





# Technical Specifications



## Dimensions

| XE135U                            |                         | ft     |
|-----------------------------------|-------------------------|--------|
| Boom length - ft                  |                         | 15'1"  |
| Arm length - ft                   |                         | 8'3"   |
| Bucket capacity - yd <sup>3</sup> |                         | 0.85   |
| A                                 | Tail swing radius       | 7'9"   |
| B                                 | Shipping height (boom)  | 9'7"   |
| C                                 | Shipping height (Cab)   | 9'11"  |
| D                                 | Shipping length         | 25'6"  |
| E                                 | Shipping width          | 8'6"   |
| F                                 | Counterweight clearance | 37"    |
| G                                 | Height over cab         | 9'5"   |
| H                                 | House width             | 8'2"   |
| I                                 | Cab height above house  | 30"    |
| J                                 | Cab width               | 3'7"   |
| K                                 | Tumbler distance        | 9'7"   |
| L                                 | Track length            | 11'11" |
| M                                 | Undercarriage width     | 8'6"   |
| N                                 | Shoe width std.         | 24"    |
| O                                 | Track height            | 32"    |
| P                                 | Ground clearance        | 19"    |

## Digging forces (ISO)

| XE135U                            |  | ft     |
|-----------------------------------|--|--------|
| Boom length - ft                  |  | 15'1"  |
| Arm length - ft                   |  | 8'3"   |
| Bucket capacity - yd <sup>3</sup> |  | 0.85   |
| Bucket(Normal/Press. Up) - lbf    |  | 24,055 |
| Arm(Normal/Press. Up) - lb        |  | 17,985 |

## Working range

| XE135U                            |                               | ft    |
|-----------------------------------|-------------------------------|-------|
| Boom length - ft                  |                               | 15'1" |
| Arm length - ft                   |                               | 8'3"  |
| Bucket capacity - yd <sup>3</sup> |                               | 0.85  |
| A                                 | Max. digging reach            | 27'3" |
| B                                 | Max. digging reach (ground)   | 26'9" |
| C                                 | Max. digging depth            | 18'2" |
| D                                 | Max. loading height           | 20'3" |
| E                                 | Min. loading height           | 6'10" |
| F                                 | Max. digging height           | 28'4" |
| G                                 | Max. bucket pin height        | 24'5" |
| H                                 | Max. vertical wall depth      | 15'   |
| I                                 | Max. radius vertical          | 18'4" |
| J                                 | Max. digging depth (8' level) | 17'4" |
| K                                 | Min. radius 8' line           | 7'2"  |
| L                                 | L Min. swing radius           | 8'1"  |
| M                                 | Real swing radius             | 7'6"  |
| N                                 | Max. Blade height             | 15"   |
| O                                 | Max. Blade depth              | 21"   |
| P                                 | Blade height                  | 23"   |