# XTC260 CRAWLER CRANE

EN13000

## Technical Specification


260t

77.5m

116.5m

# Technical specifications

## ➢ Operator’s cab

- The shape of the cab adopts bionic design, and the interior is arranged according to ergonomics, so that the operator can touch all buttons without getting up. The cab is equipped with touch screen, adjustable seat, air conditioner (heating and cooling), power sockets and radio to provide the operator with a comfortable operating environment. The cab has large space, with wide field of vision, the operation is comfortable and convenient.

## ➢ Engine

- Model: Cummins QSL9.
- Type: in-line six-cylinder, turbocharged and inter-cooled.
- Emission standard: Stage V.
- Rated power/maximum speed: 252kW/1800rpm.
- Maximum torque/speed: 1526Nm/1400rpm.
- Fuel tank capacity: 520L.

## ➢ Hydraulic system

- Pumps are driven by engine through drive device to realize hoisting, luffing, telescoping, slewing and travel. Electric proportional load sensitive main system + closed slewing system, which is equipped with independent high-power cooler and large-capacity hydraulic oil tank to ensure stable operating temperature of the system, more suitable for foundation construction conditions.

## ➢ Electrical system

- WIKA (Hirschmann) integrated control system, composed of engine control, safety control, pilot control, load moment indicator control, auxiliary function control, etc.
- The control system has track gauge detection and virtual wall functions, it is intelligent and has high safety under extreme working conditions. CAN-bus transmission and display interface port state query (monitoring all bus sensors) make troubleshooting much easier. Push-in terminal block and heavy-duty connector are used to improve the maintenance convenience.
- Configured with monitoring systems for winches and turntable tail, improving the comfort and safety during operation.

| Battery model | Qty. | Total rated voltage | Total rated capacity |
|---|---|---|---|
| 6-QAW-180D | 2 | 24V | 180Ah |

## ➢ Hoisting system

- Planetary reducer is driven by motor, to achieve the lifting and lowering of main or auxiliary hook blocks through drum.
- Hoisting winch has built-in planetary reducer, with constant closed brake to achieve “spring brake/ hydraulic release” function, safe and reliable.

| | | | | | |
|---|---|---|---|---|---|
| Main hoisting system | Diameter of wire rope | 22mm | Auxiliary hoisting system | Diameter of wire rope | 22mm |
| | Rated single line pull | 11.1t | | Rated single line pull | 11.1t |
| | Wire rope length | 360m | | Wire rope length | 250m |

# Technical specifications

## ➢ Slewing system

- Slewing system is externally meshed with slewing bearing. The slewing bearing is driven by motor and planetary gear reducer to achieve 360° slewing.
- The system has built-in planetary reducer, with normally-closed brake to achieve "spring brake/ hydraulic release" function, to ensure the high braking safety of the system.
- A mechanical slewing locking device is set to realize locking protection.
- With free sliding function.

## ➢ Traveling device

- It is divided into left and right crawler travel devices, consists of track frame, track shoe, track roller, drive sprocket, idler, carrier roller, travel unit and tensioning device.
- Track frame: symmetrically arranged, one piece for each side, made of high-strength steel plate and welded in box-type structure.
- Drive sprocket: it is connected on planetary reducer housing with high-strength bolt.
- Track roller: double flange design, with built-in floating seal, self-lubrication.
- Tension roller: The rollers are used to adjust crawler tightness through tensioning device.
- Carrier roller: with built-in floating seal, self-lubrication.
- Track shoe: rolled track shoes, width 1100mm.
- Travel unit: constant closed planetary gear reducer with strong travel power and high flexibility and mobility. It uses multiple wet-type constant closed brake, spring brake, and hydraulic release.

## ➢ Hook block

- Hook block configuration is as follows:

| Name | 150t hook | 75t hook | 11t hook |
|---|---|---|---|
| Weight (Kg) | 1900 | 653 | 265 |
| Qty. | 1 | 1 | 1 |
| Number of pulleys | 7 | 3 | 0 |

Note: If you need hooks not listed in above table, please contact our company to make sure the hooks can be used.

## ➢ Counterweight

- It is composed of 62t turntable counterweight and 18t central counterweight.

# Technical specifications

## ➢ Turntable

- Turntable is a key load bearing structural component to connect crane upper and lower structures. It is a box type composite structure welded by high strength steel plate, with box at both sides. Turntable is connected to chassis by slewing bearing, with good overall strength and stability. Cab, luffing mechanism, engine system, main pump, hydraulic valve, electrical cabinet, boom and superstructure counterweight are respectively connected with different parts of the turntable.

## ➢ Car-body

- Car-body is radial box structure, welded by high strength steel plate, with features of good rigidity and high strength.

## ➢ Boom

- Seven boom sections, U-shaped cross section, with single-cylinder pin type telescoping system, single-plate boom head, compact boom tail and embedded slide block. Increased boom length, strong lifting performance and wide application range.
- Main boom length 14.8m ~ 77.5m, the length is longest among the same ton cranes in industry, meeting the needs of various operating radius within the range of boom length.
- Jib is composed of connecting frame, rotary frame and two lattice fordable jib sections, placed near main boom. Fixed jib length: 12m, 20m.
- Boom end single pulley is installed on main boom top section, used for the lifting operation with single rope. The lifting performance is the same with main boom, but the max. lifting capacity shall not exceed 10.5t.

# Model and optional parts

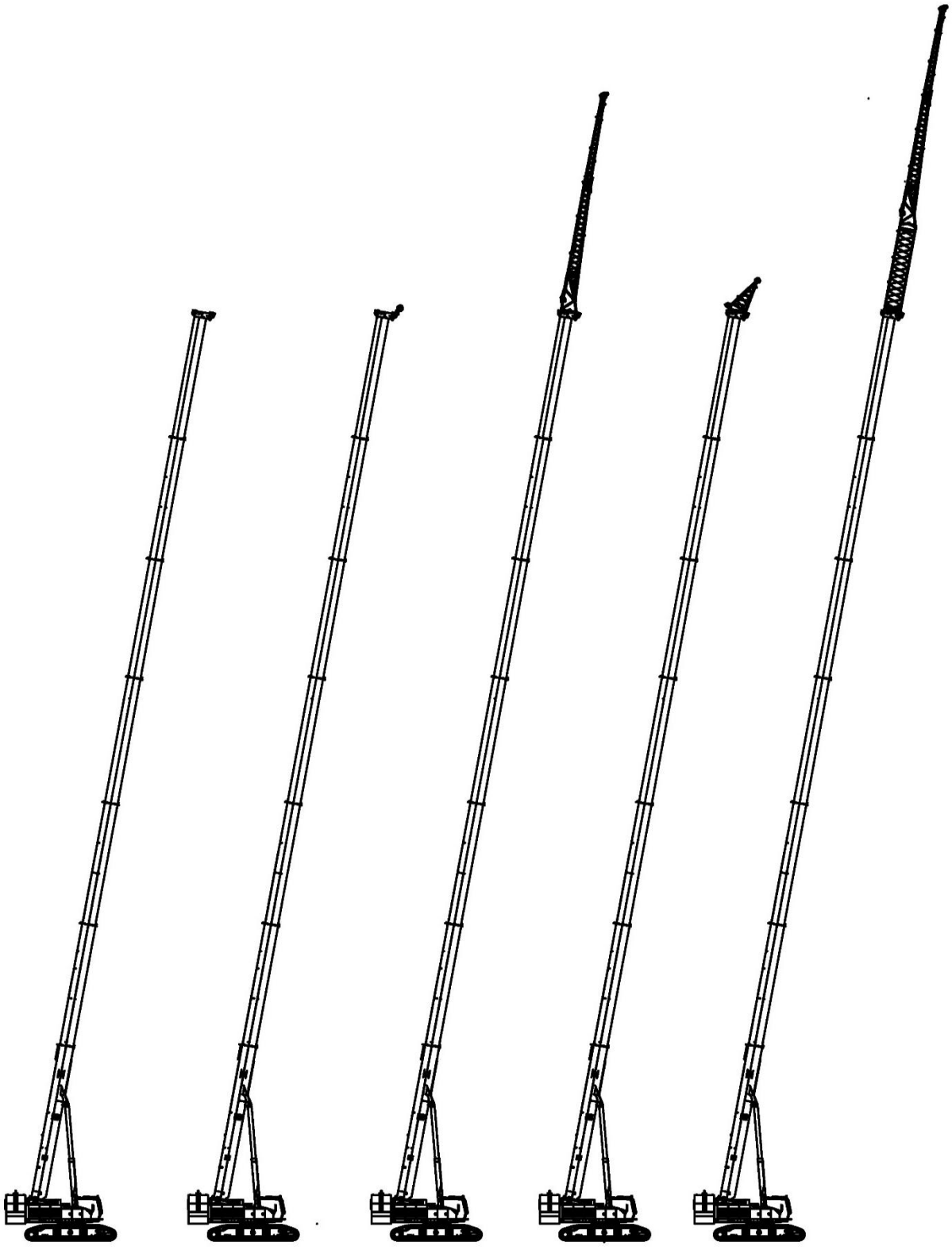
| Model | Function description |
|---|---|
| **Standard model** | Main boom+fixed jib+boom end single pulley, seven single-cylinder pinned main boom sections, main boom length 77.5m, jib 12/20m; rolled crawler shoes. |
| | |

| Optional parts | Parts description |
|---|---|
| **Hook block** | 100t hook, 35t hook |
| **Main boom extension section** | Two welded lattice structures, connected to fixed jib.<br>Length of each main boom extension section: 8m |
| **Jib extension section** | One welded lattice structure, connected to main boom head.<br>Length of main boom extension section: 8m |
| **Independent boom head** | Welded lattice structure, connected to main boom head.<br>Length of independent boom head: 2.9m. |
| **Crawler shoe** | Casted crawler shoes |
| | |

# Main technical parameters

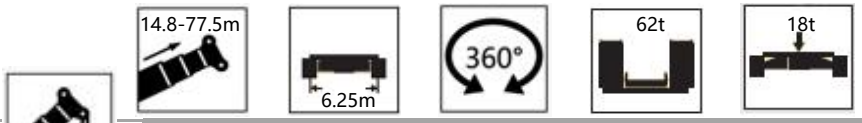
| Parameters | | | | Unit | Value |
|---|---|---|---|---|---|
| Lifting performance parameters | Max. rated lifting capacity | Main boom | | t | 260 |
| | | Jib | | t | 10.5 |
| | Max. lifting moment | | | t.m | 875 |
| | Length | Main boom | | m | 14.8~77.5 (seven sections) |
| | | Fixed jib | | m | 12/20 (two jib sections) |
| | | Main boom extension section | | m | 8+8 |
| | | Jib extension section | | m | 8 |
| | | Max. boom and jib combination | | m | 116.5 (72.5+44) |
| | | Independent boom head | | m | 2.9 |
| Wire rope | Diameter/single line pull | | | mm/t | Φ22/11.1 |
| Speed parameters | Lifting speed | | Main winch | m/min | 140 |
| | | | Aux. winch | m/min | 140 |
| | Slewing speed | | | r/min | 1.7 |
| | Travel speed | | | km/h | 2.0 |
| | Grade ability | | | % | 35 |
| Power system | Engine brand | | | / | Cnmmins QSL9 |
| | Power/rated speed | | | kW/rpm | 252/1800 |
| | Maximum torque | | | Nm | 1526 |
| | Fuel tank capacity | | | L | 520 |
| | Emission standard | | | / | Stage V |

# Operation modes and lifting performances



| Main boom | Main boom + boom end single pulley | Main boom + fixed jib | Main boom + independent boom head | Main boom + extension section + jib |
|---|---|---|---|---|
| 14.8 ~ 77.5m | Main boom: 14.8 ~ 77.5m | Main boom: 14.8 ~ 77.5m<br>Jib: 12m/20 m | Main boom: 14.8 ~ 77.5m<br>Independent boom head: 2.9m | Main boom: 14.8 ~ 77.5m<br>Jib: 12m/20 m<br>Main boom extension section: 2*8m<br>Jib extension section: 8m |

# Main boom operation mode (HB)

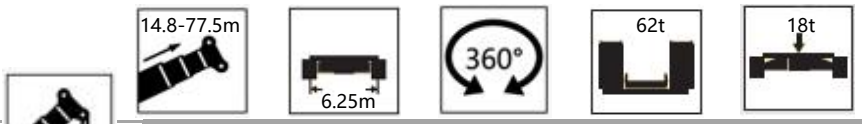



**Main boom: 14.8~48.5m**

| | 14.8 | 19.6 | 24.4 | 29.2 | 34 | 38.9 | 43.7 | 48.5 |
|---|---|---|---|---|---|---|---|---|
| 2.5 | 260* | | | | | | | |
| 3 | 230* | 135 | | | | | | |
| 3.5 | 220* | 135 | 135 | | | | | |
| 4 | 200* | 133 | 135 | | | | | |
| 4.5 | 181* | 133.0 | 135 | 127 | | | | |
| 5 | 175* | 133.0 | 133.0 | 127 | | | | |
| 6 | 140 | 132.0 | 133.0 | 127 | 99 | | | |
| 7 | 118 | 120.3 | 129.7 | 127.0 | 99 | 73.5 | | |
| 8 | 102 | 110.1 | 111.3 | 110.9 | 90 | 73.5 | 63.5 | |
| 9 | 90 | 96.1 | 97.2 | 96.7 | 88.6 | 68 | 58.2 | 55.5 |
| 10 | 80 | 84.8 | 86.0 | 85.6 | 83.4 | 67.3 | 53 | 50.5 |
| 12 | | 68.4 | 69.5 | 69.1 | 70.1 | 61.2 | 42.4 | 44.6 |
| 14 | | 56.6 | 57.8 | 57.3 | 58.4 | 55.9 | 38.9 | 38.7 |
| 16 | | | 47.9 | 47.6 | 48.8 | 47.4 | 35.8 | 35.2 |
| 18 | | | 39.9 | 39.6 | 40.8 | 39.9 | 33.2 | 32.1 |
| 20 | | | 33.8 | 33.6 | 34.9 | 33.9 | 31.0 | 29.5 |
| 22 | | | | 28.8 | 30.0 | 29.1 | 29.1 | 27.2 |
| 24 | | | | 24.9 | 26.1 | 25.3 | 26.4 | 25.2 |
| 26 | | | | | 23.0 | 22.2 | 23.2 | 22.5 |
| 28 | | | | | 20.3 | 19.4 | 20.5 | 19.8 |
| 30 | | | | | | 17.2 | 18.3 | 17.5 |
| 32 | | | | | | 15.2 | 16.3 | 15.6 |
| 34 | | | | | | | 14.6 | 13.9 |
| 36 | | | | | | | 13.1 | 12.4 |
| 38 | | | | | | | 11.8 | 11.1 |
| 40 | | | | | | | | 9.9 |
| 42 | | | | | | | | 8.8 |
| 44 | | | | | | | | |
| 46 | | | | | | | | |
| 48 | | | | | | | | |
| 50 | | | | | | | | |
| 52 | | | | | | | | |
| 54 | | | | | | | | |
| Main boom combination | 000000 | 001000 | 110000 | 111000 | 111100 | 111110 | 111111 | 211111 |

Note: the capacities with "*" in the table need to realize through auxiliary device after adding pulley block.

# Main boom operation mode (HB)

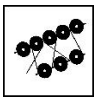



**Main boom: 53.3~77.5m**

| | 53.3 | 58.1 | 62.9 | 67.7 | 72.5 | 77.5 |
|---|---|---|---|---|---|---|
| 9 | 45.8 | | | | | |
| 10 | 41.5 | 36 | | | | |
| 12 | 37 | 34.5 | 26.8 | | | |
| 14 | 34.8 | 31.5 | 26.8 | 20.6 | 17.1 | 13.6 |
| 16 | 31.3 | 27.8 | 25.5 | 20.2 | 17.1 | 13.6 |
| 18 | 28.4 | 25.2 | 23.0 | 19.6 | 17 | 13.5 |
| 20 | 25.9 | 23.0 | 20.9 | 19.5 | 16.5 | 11.7 |
| 22 | 23.8 | 21.0 | 19.1 | 17.9 | 15.6 | 10.5 |
| 24 | 21.9 | 19.3 | 17.6 | 16.5 | 14.9 | 9.6 |
| 26 | 20.4 | 17.9 | 16.3 | 15.1 | 14.2 | 8.7 |
| 28 | 18.9 | 16.6 | 15.0 | 14.1 | 13.3 | 7.9 |
| 30 | 17.3 | 15.4 | 14.0 | 13.0 | 12.4 | 7.2 |
| 32 | 15.4 | 14.4 | 13.0 | 12.1 | 11.6 | 6.6 |
| 34 | 13.7 | 13.4 | 12.1 | 11.3 | 10.8 | 6.1 |
| 36 | 12.2 | 12.4 | 11.3 | 10.5 | 10.1 | 5.6 |
| 38 | 10.9 | 11.0 | 10.6 | 9.9 | 9.5 | 5.0 |
| 40 | 9.8 | 9.9 | 10.0 | 9.2 | 8.8 | 4.6 |
| 42 | 8.7 | 8.8 | 9.1 | 8.7 | 8.3 | 4.3 |
| 44 | 7.7 | 7.9 | 8.2 | 8.2 | 7.9 | 3.9 |
| 46 | 6.8 | 7.0 | 7.4 | 7.7 | 7.4 | 3.6 |
| 48 | | 6.2 | 6.6 | 7.0 | 6.9 | 3.3 |
| 50 | | 5.5 | 5.9 | 6.3 | 6.5 | 2.9 |
| 52 | | | 5.1 | 5.7 | 6.2 | 2.7 |
| 54 | | | 4.6 | 5.0 | 5.6 | 2.4 |
| 56 | | | 4.0 | 4.5 | 5.0 | 2.2 |
| 58 | | | | 4.0 | 4.5 | 2.0 |
| 60 | | | | 3.5 | 4.0 | 1.8 |
| 62 | | | | | 3.6 | 1.7 |
| 64 | | | | | 3.2 | 1.5 |
| 66 | | | | | | 1.4 |
| 68 | | | | | | 1.2 |
| Main boom combination | 221111 | 222111 | 222211 | 222221 | 222222 | 333333 |

Note: the capacities with "*" in the table need to realize through auxiliary device after adding pulley block.

# Symbols

| | |
|---|---|
|  | 360° slewing |
|  | Turntable counterweight |
|  | Central counterweight |
|  | Track gauge |
|  | Parts of line |

| | |
|---|---|
|  | Main boom angle |
|  | Fixed jib |
|  | Main boom working radius |
|  | Main boom length |
|  | Rated lifting capacity |

# Points for attention

1. Do not rely on this document to operate the crane! For correct operating instructions of the crane, please refer to "Operation Manual" and "Rated Lifting Capacity Manual".

2. The unit of rated lifting capacity in the table is “t”. It is the maximum total lifting capacity that the crane can guarantee on a stable and horizontal surface under the current boom length and radius, including the weight of the hook, sling and wire rope. The actual weight of the load is the value after the weight of above items is subtracted.

3. The working radius in the lifting performance table is the horizontal distance from center of gravity of the lifted load to slewing axis of the crane when the load is lifted off the ground.

4. Working radius refers to the horizontal distance from the load to slewing axial line of the crane. In lifting operation, it includes boom deflection, so boom deflection should be taken into consideration before lifting operation.

5. This product has multiple operation modes, and the product images in the document may not be standard configurations. Each functional component can be customized and purchased according to different needs.

6. This document only provides part of the lifting performance of the product. Please refer to "Operation Manual" and "Rated Lifting Capacity Manual" for lifting performances in details.

7. This printed material does not belong to the contract. We reserve the right to make changes to product models, parameters and configurations without notice due to the need of continuous product improvement. The pictures are for reference only, please prevail to the actual product.

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