

# TH215C

TIER 2

Rated Power: 112kw/1950rpm  
Max. Power: 129kw/2200rpm

Operating Weight  
21,200kg

Bucket Capacity  
1.0m<sup>3</sup>



# TH215C Economical, Reliable, Safe and Durable

## Stronger power, faster speed, lower fuel consumption

- Cummins engine with great reputation of excellent reliability, durability, strong power and economy.
- Full and complete combustion of diesel fuel, dramatically improving performance.
- Multi-fuel filtration system ensures engine durability.
- Optimisation of the oil circuit design of the main control valve improves operating speed and compounding capability.
- More efficient loading operations and bigger operation volume per hour.
- Lower operating costs and higher returns.

## Advanced negative flow hydraulic system for comfortable operation and high working efficiency

- Full power control, four power modes to adapt to different working conditions.
- Kawasaki main pump with energy-saving and low-consumption, fast working speed.
- Hengli slewing motor for improved operational efficiency and better durability.

## Longer durability of structural components

- Heavy-duty boom and arm for better durability.
- Reinforced box section beam and X-leg type center frame for better stability.
- Highly reliable carrier and track rollers that can withstand shocks caused by large loads.
- Increased thickness of the lower support ring and improved weld strength of the lower frame.
- Full 3D modelling and finite element analysis techniques to ensure the reliability and stability.

## Higher cooling performance

- Large-capacity and high-efficiency cooling inline fan.
- Sealing foam of the cooling module is made of polyurethane foam with higher oil and heat resistance.



## Durable shafts, sleeves and resin gaskets

- High-density copper-based sub-lubricated bushings with low friction and wear-resistance.
- Oil-containing resin gaskets increases side lubrication and prevents wear and rattling.
- Minimised loosening of working devices.

## Durable fuel tank

- Increased fatigue life of welded parts by adopting plate + support type.
- Increased size of the fuel filler neck improves convenience and prevents spillage during filling.

## Electrical system performance enhancement

- ECU is sealed with silicone to prevent moisture injection and resist vibration.
- Precise throttle control by stepper motor, significantly reducing fuel consumption.
- Pressure sensor with enhanced durability and reliability.



\*The sample may contain an optional configuration or painting style and design changes.

## Cummins 6B5.9 Engine

6-cylinder, 4-stroke, turbocharged intercooled engine with load resistance, high-horsepower output, high reliability, low fuel consumption, significantly reducing the use and maintenance costs. The application of a large-capacity turbocharger and a high-pressure fuel injection pump reduces fuel consumption and increases power reserve.



## Engine Alternate Droop Accelerator Select System

Optimise the power performance of the engine and main pump. According to different workloads, there are different power selection methods, which can bring out the best performance while reducing fuel consumption. The system also features automatic idling and power increase. The monitor displays engine speed, coolant temperature and hydraulic oil temperature. The system is self-diagnostic and displays error codes on the monitor.



## Intelligent Electronic Surveillance System

Real-time monitoring, self-diagnostic fault alarms, maintenance information prompts.





## Flexible, **FAST**

Various buckets, crushers and protective nets are available to meet different needs.





## Various Working Conditions

Full power control, 4 power modes.

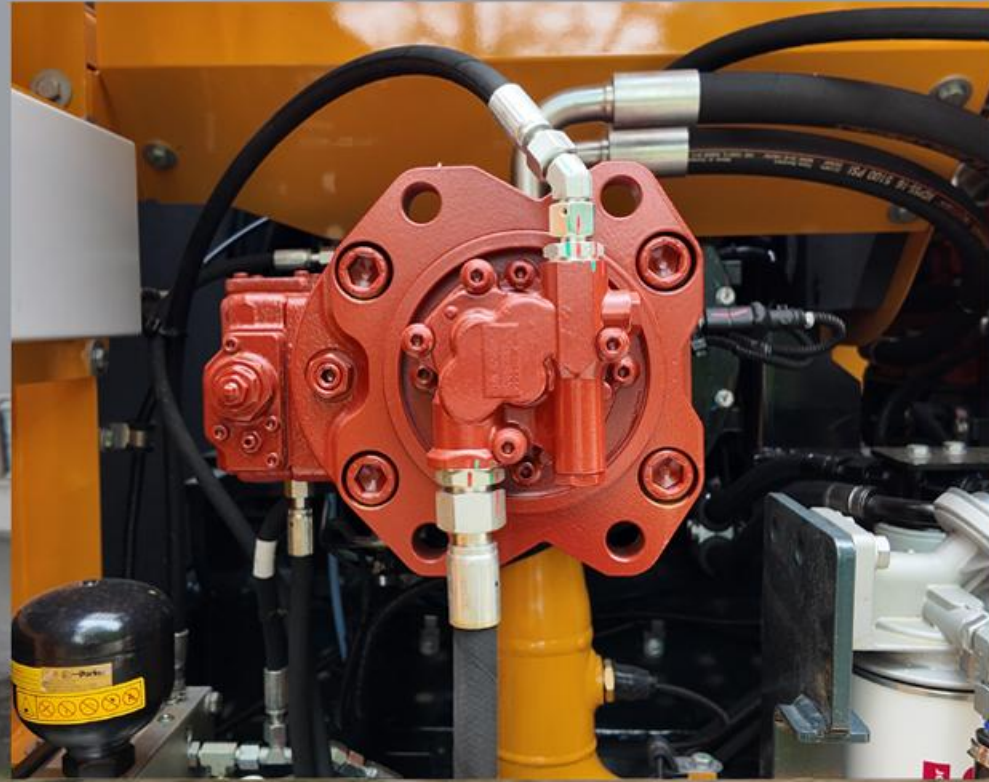
Widely used in municipal, roads, pipe networks, factories and mining enterprises and other construction sites.



## Hydraulic System

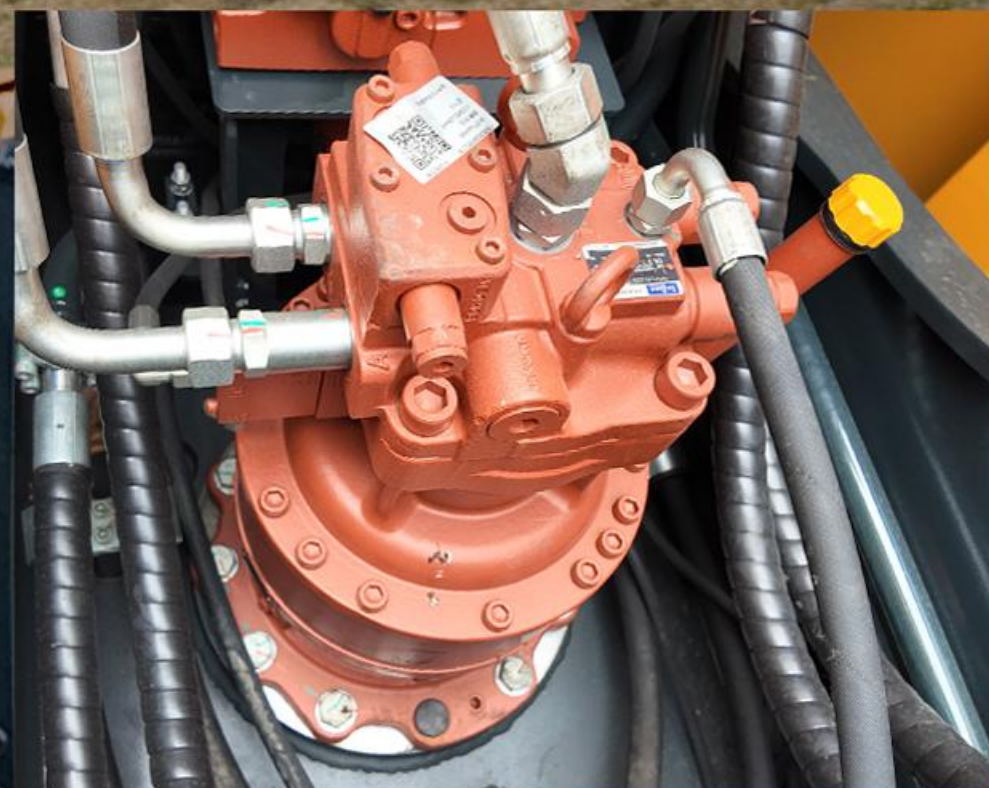
### Kawasaki Main Pump

Quality assurance, more excellent performance, large flow rate of 2\*224L/min, energy saving and low consumption, fast operation speed.



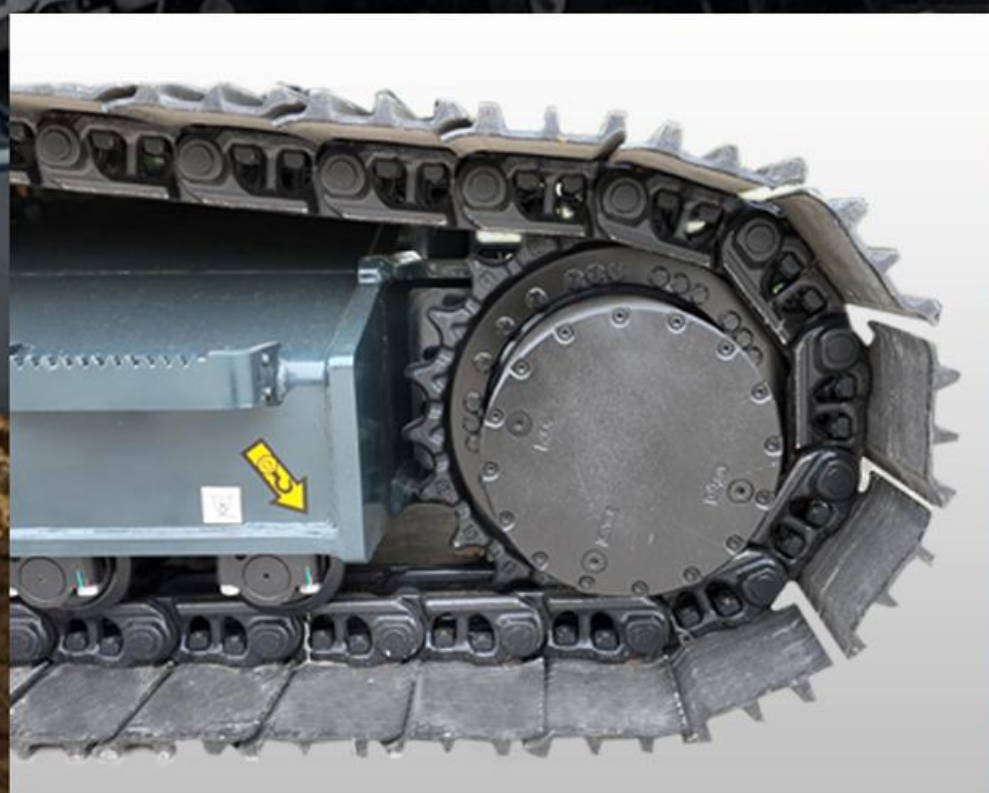
### Hengli Slewing Motor

Better adaptability, improved efficiency, increased durability and higher operational efficiency. Tested and fully proven performance.



### Doosan Travelling Motor

Stable travelling, faster compound movements, better reliability.



## Heavy Duty Working Device

Improved durability and life of the upperstructure and working device. Bushing with improved flexibility, durability and wear resistance. 5.68 m boom, 2.9 m standard arm, greatly improving loading efficiency.



## Reinforced Bucket and Linkage

1.0 m<sup>3</sup>, specially designed for earthmoving operations. Loading and unloading materials without sticking, convenient and efficient. Sealed bucket connecting rods ensure low wear on pins and bushings for quiet operation. Improving the reliability and wear characteristics of the connecting rod.



## High-strength and Stable Undercarriage

The reinforced box structure frame is made of low-stress, high-strength steel plates welded together and fitted with highly reliable carrier rollers, track rollers and rail guards. The track shoes made of high-strength steel are able to withstand the external impacts generated by the machine when walking on rough surfaces and working in wetlands. The X-leg centre frame with integral welding to ensure max. strength and reliability.





## Wide Cabin with Excellent Visibility

The cab is spacious and safe and ergonomically designed with low noise, better visibility and ventilation. Full-view front, rear and side windows for excellent visibility of all directions and construction work.

Intelligent LCD Touch Instrument Cluster  
Operation mode, fault reminder, oil and water temperature, maintenance tips and other multi-functional reminders.



AC Front and Rear Vents  
Air circulation for better air conditioning.



RCV Joystick  
More flexible, with better co-ordination of movements and ergonomic design.



Smooth Travel Pedal and Foot Rests  
The layout is more spacious to relieve driving fatigue.

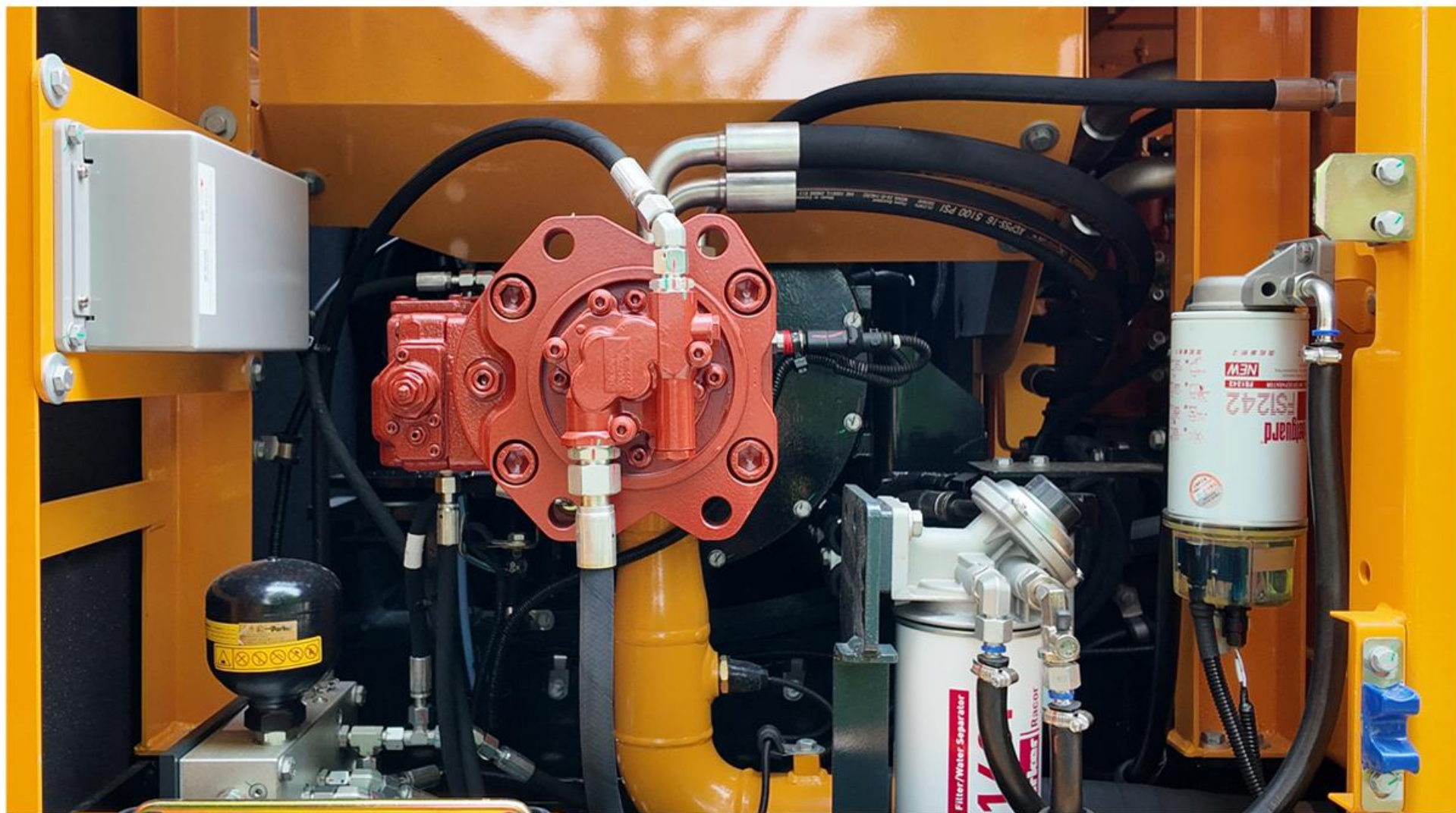


# Easy to Maintain Engine Components

Side Cover with Left & Right Swing Open Type  
Make maintenance and repair easy.



Three-stage filtration protects the engine for longer lifespan.



## Large Capacity Toolbox

Convenient storage for grease drums and maintenance tools.

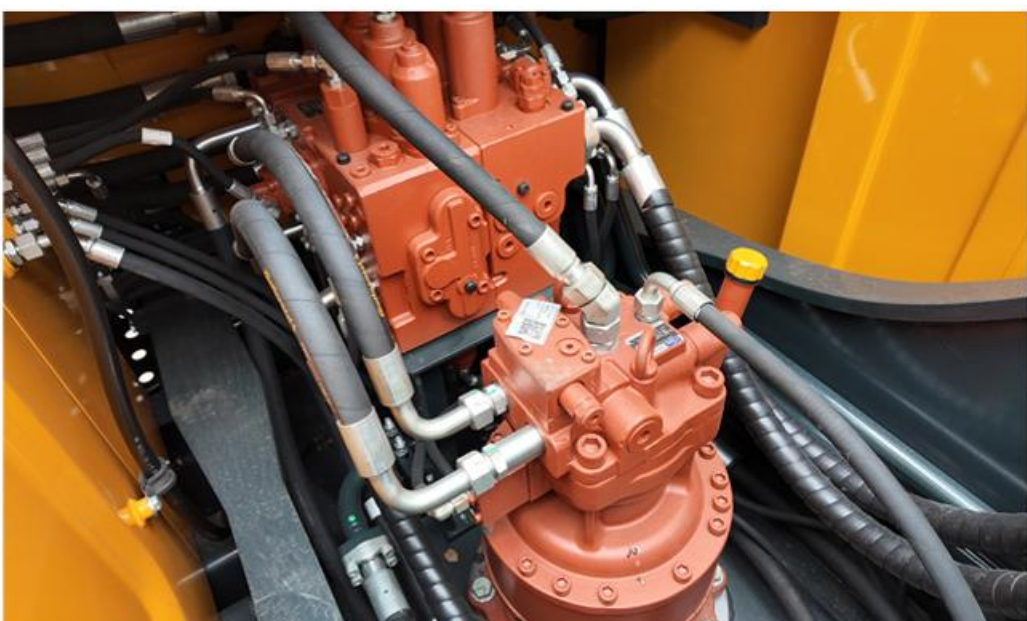


## High Capacity Air Filter

Full and clean engine air intake for longer engine life.



## Flow Control Systems



# SPECIFICATIONS



## ENGINE

|                               |         |           |
|-------------------------------|---------|-----------|
| Maker                         | -       | Cummins   |
| Model                         | -       | 6B5.9     |
| Emission Standard             | -       | Tier 2    |
| Rated Power                   | kW/rpm  | 112/1950  |
| Max. Power                    | kW/rpm  | 129/2200  |
| Max. Torque                   | Nm/rpm  | 614/1500  |
| Displacement                  | cc      | 5883      |
| No. of cylinder-Bore x Stroke | EA-mm   | 6-102×120 |
| Starting Motor                | V/kW    | 24/6      |
| Alternator                    | V/A     | 28/70     |
| Batteries                     | EA×V×AH | 2×12×120  |



## HYDRAULIC SYSTEM

| MAIN PUMP                  |                     |               |
|----------------------------|---------------------|---------------|
| Flow                       | l/min               | 2×224         |
| PILOT PUMP                 |                     |               |
| Rated Flow                 | l/min               | 19.5          |
| Max. Pressure              | kgf/cm <sup>2</sup> | 40            |
| PILOT VALVE                |                     |               |
| Type                       | -                   | 9 valve stems |
| Main Safety Valve Pressure | kgf/cm <sup>2</sup> | 350           |
| Overload Relief Pressure   | kgf/cm <sup>2</sup> | 380           |



## DRIVES

|                           |        |         |
|---------------------------|--------|---------|
| Slewing Speed             | rpm    | 12.0    |
| Travel Speed (high / low) | km/hr  | 5.5/3.6 |
| Gradeability              | deg(%) | 35(70%) |
| Max. Drawbar Pull         | KN     | 194     |
| rotary torque             | KN.m   | 63.1    |



## UNDERCARRIAGE

|                 |               |      |
|-----------------|---------------|------|
| Carrier Roller  | EA(Each Side) | 2    |
| Track Roller    | EA(Each Side) | 7    |
| No. of Shoes    | EA(Each Side) | 46   |
| Ground Pressure | kpa           | 46.5 |



## WORKING EQUIPMENT

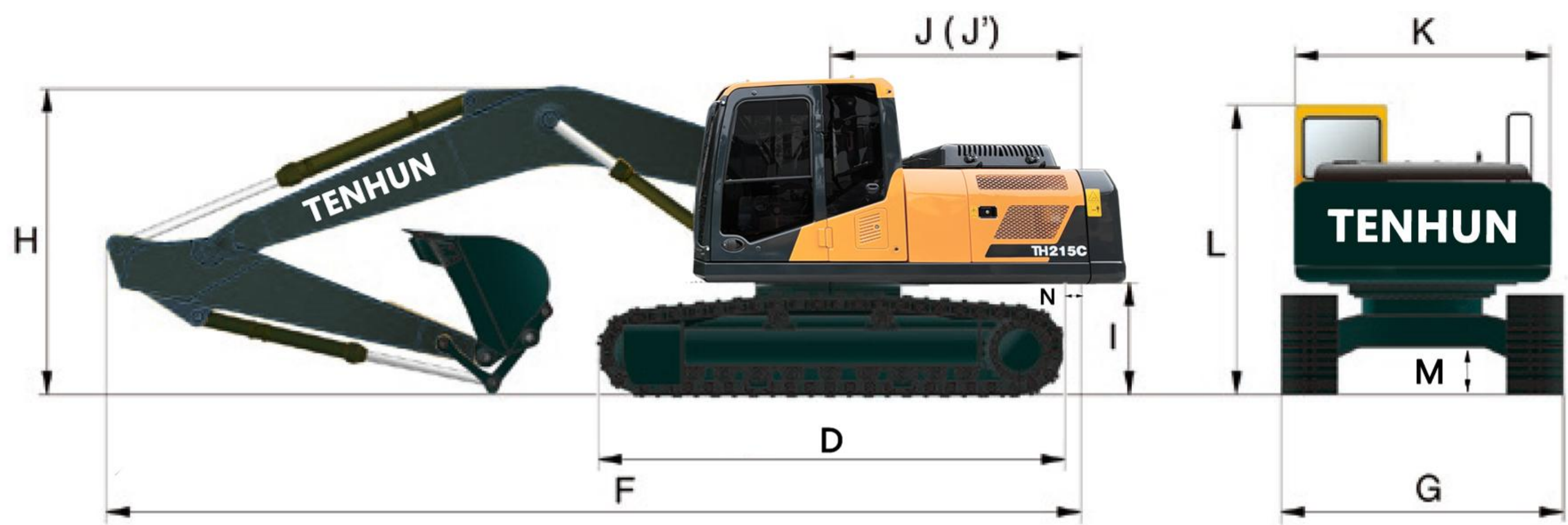
|                            |                |      |
|----------------------------|----------------|------|
| Boom Length                | m              | 5.68 |
| Arm Length                 | m              | 2.90 |
| Bucket Capacity            | m <sup>3</sup> | 1.0  |
| Bucket Digging Force (ISO) | kN             | 150  |
| Arm Digging Force (ISO)    | kN             | 100  |



## OTHER

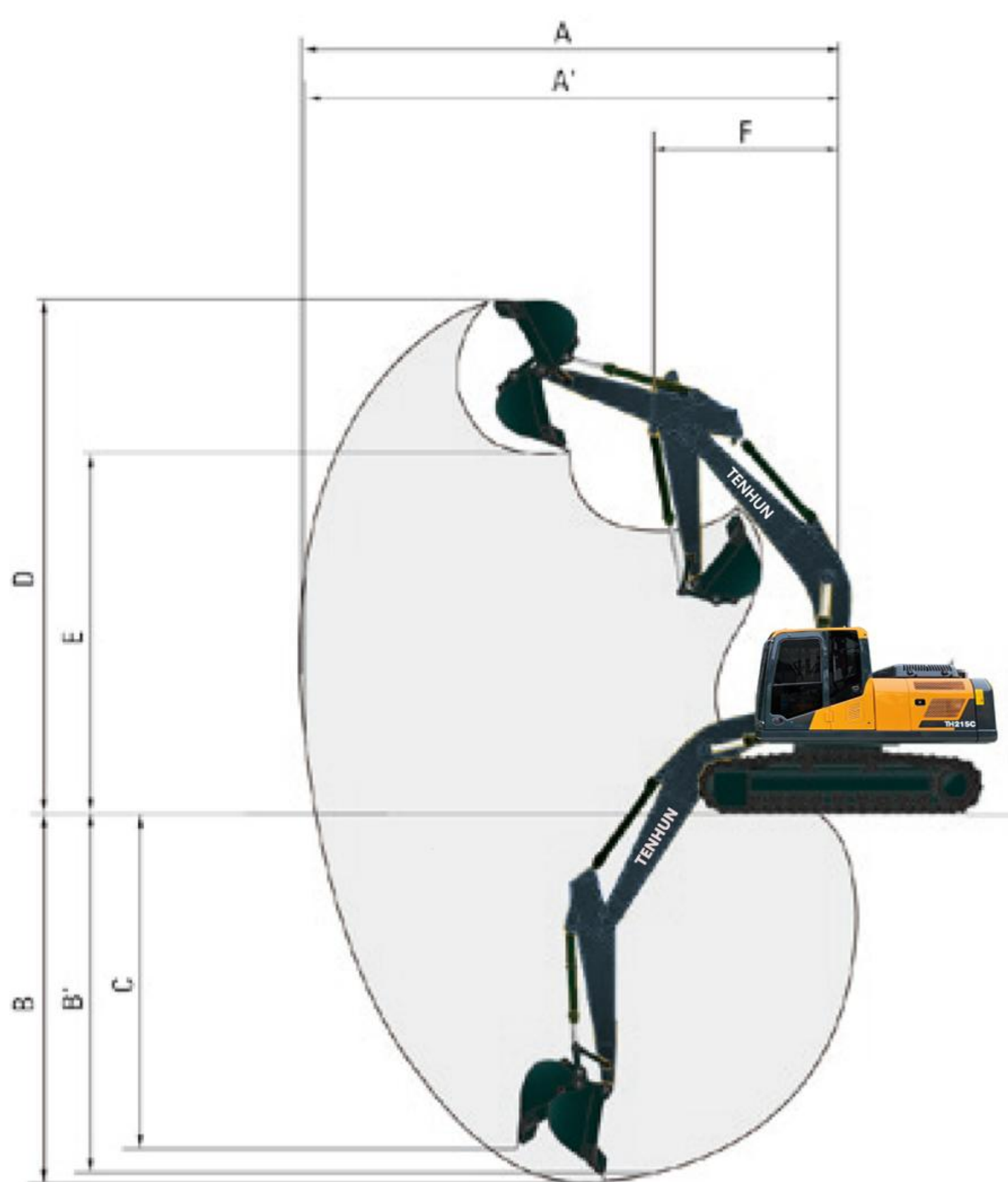
|                |   |      |
|----------------|---|------|
| Fuel Tank      | L | 440L |
| Hydraulic Tank | L | 225L |
| Engine Oil     | L | 24L  |
| Engine Coolant | L | 20L  |

# DIMENSIONS & WORKING RANGE



mm

|                                             |       |
|---------------------------------------------|-------|
| F Overall Length                            | 9,600 |
| G Overall Width (600mm Crawler)             | 2,800 |
| H Overall Height of Boom                    | 3,045 |
| I Ground Clearance of Counterweight         | 1,016 |
| J Tail Swing Radius                         | 2,835 |
| K Overall Width of Upperstructure           | 2,745 |
| L Overall Height of Cab                     | 2,960 |
| J' Rear-end Length                          | 2,900 |
| D Overall Length of Crawler                 | 4,165 |
| M Min. Ground Clearance                     | 470   |
| N Distance of Crawler and Counterweight End | 755   |



|                                      |                   |
|--------------------------------------|-------------------|
| Boom                                 | 5,680mm           |
| Arm                                  | 2,900mm           |
| Bucket                               | 1.0m <sup>3</sup> |
| A Max. Digging Reach                 | 9,900mm           |
| A' Max. Digging Reach on Ground      | 9,731mm           |
| B Max. Digging Reach                 | 6,668mm           |
| B' Max. Digging Depth (2438mm level) | 6,428mm           |
| C Max. Vertical Wall Digging Depth   | 6,437mm           |
| D Max. Digging Height                | 9,639mm           |
| E Max. Dumping Height                | 6,775mm           |
| F Min. Swing Radius                  | 3,530mm           |

▲ Please contact for special requirement of options.

