

# ZOOMLION TECHNOLOGY WITH INGENUITY AND CARE



## The world's leading excavator intelligent manufacturing factory

Zoomlion Smart City Earthmoving Machinery Park is an industry-leading intelligent and flexible excavator factory. From a piece of steel plate to an excavator, with high-precision welding process, highly reliable assembly process, high-level coating process and strict quality control, each excavator is delivered with ultimate quality.



Zoomlion Heavy Industry Science & Technology Co.,Ltd.

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Note: Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment.



# ZOOMLION 15-TONNAGE CRAWLER HYDRAULIC EXCAVATOR

ZE145GU







ENGINE POWER:  
**90 kW @ 2200 rpm**

OPERATING WEIGHT:  
**15800 kg**

BUCKET CAPACITY RANGE:  
**0.1-0.6 m<sup>3</sup>**



# SAFE AND COMFORTABLE



The new generation of G series cab is spacious and bright, with a large area of reinforced glass, and the glass transmittance is increased by more than 11%; Standard ROPS certified cab for greater safety.



Cup holder



Storage box



Cigarette lighter



AUX port



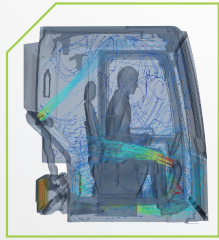
Push start



Large size touch screen



The 135mm large-stroke suspension seat is suitable for drivers of different heights.



High power air conditioner with optimized air duct.



right



left



The rear view is clearly visible on the monitor thanks to the rear-view camera as standard feature. Travel operation is easier and safer.

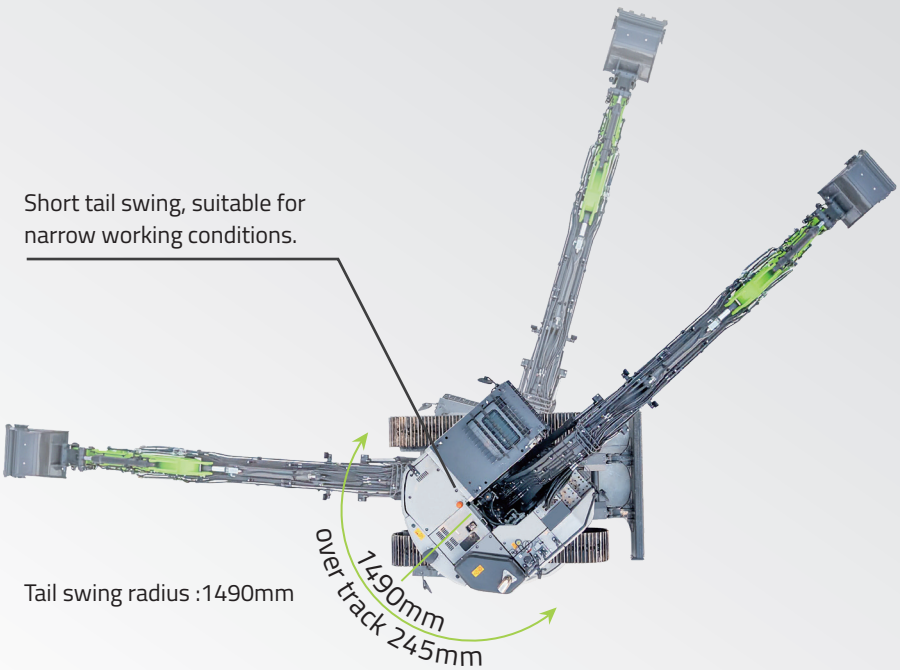


front



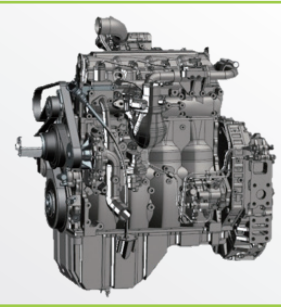
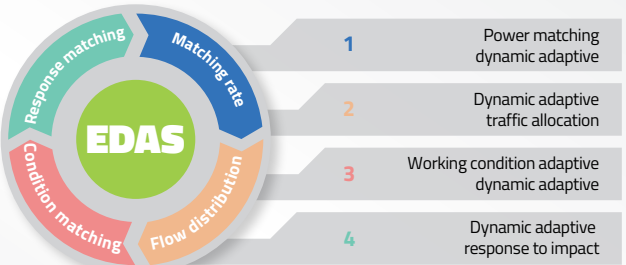
behind

# ENRGY SAVING AND EFFICIENT

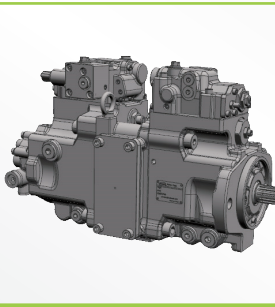


Short tail swing, suitable for narrow working conditions.

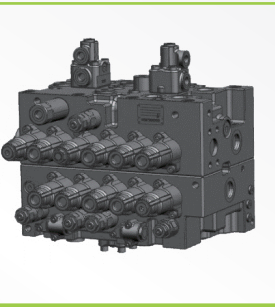
It combines multiple functions in one, offering you extraordinary versatility. The front-end fittings can be replaced quickly to meet the construction requirements of different scenarios.



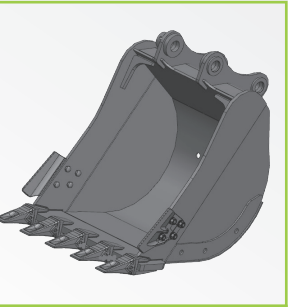
High power engine



Large displacement pump



Large flow diameter main control valve



Large capacity bucket

Loading control technology

Dual pump power control technology

Load abrupt change technology

Heavy-duty power boost technology

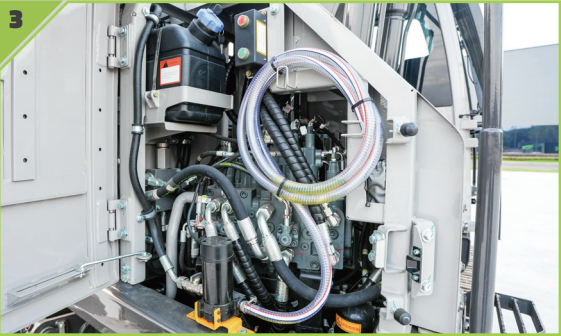
By using the self-developed full electronic control system, combined with the dual-pump power control technology and crushing constant-flow control technology, throttling loss can be reduced, accurate control can be achieved, fuel consumption can be lowered, thus the machine's maneuverability and fuel efficiency are improved.



# RELIABLE AND DURABLE



Customized Cummins F3.8 engine with rated power (90kW), features high torque and strong power. By applying the high-pressure common-rail fuel injection system and the customized universal characteristic curve, it realizes more complete combustion and lower fuel consumption.



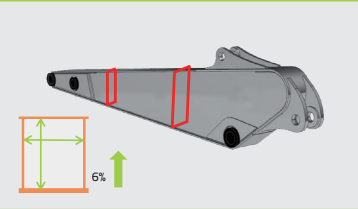
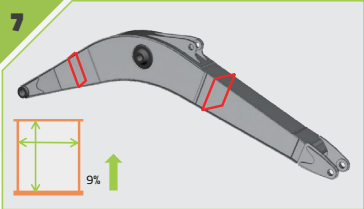
It's easy to fill the DEF tank, which is placed in the toolbox.



The track roller is used as carrier roller. The service life of the track roller is longer with higher bending and torsional resistance since it's supported on both sides. The track derailment is avoided more effectively.



Engine fuel filters, oil filter, air cleaner, hydraulic oil pilot filter and A/C filter are easily accessible at ground level, achieving "one-stop" maintenance on the ground.



The boom and arm are designed with large cross section. The overall cross section of the boom and arm is increased by 9% and 6% respectively. The stress bearing capacity is greater with larger cross section;

Robot welding



Advanced welding process helps to improve the quality of structural components.





# VERSATILE



Standard high efficient reinforced bucket of 0.6m³ capacity; Loading efficiency is high because soil is hardly stuck on it; durable with enhanced design;



The optional 0.55m³ rock bucket is powerful during digging by greatly reducing the cutting resistance of bucket teeth; The bucket is more durable by reducing the wear and impact of the rock on the bottom of the bucket. The stability of the machine is improved, thus the operation is more comfortable.



The dedicated buckets for trenching are optional, which can get twice the result with half the effort in the applications like trenching and pipeline laying.

| Bucket type       | Capacity (m³) | Applicable material density (kg/m³) | Advice for choice                              |
|-------------------|---------------|-------------------------------------|------------------------------------------------|
| Reinforced bucket | 0.6           | 1500                                | Digging light or loose materials               |
| Rock bucket       | 0.55          | 1800                                | High abrasion applications like quarry or rock |
| Trenching bucket  | 0.34          | 1500                                | Digging trenches of 600mm wide                 |
| Trenching bucket  | 0.1           | 1500                                | Digging trenches of 300mm wide                 |

# ATTACHMENTS

Excavators can be used for different functions by installing different attachments, further improving efficiency. Better stability and performance can be achieved by installing Zoomlion attachments. Attachments can be easily replaced by using Zoomlion quick coupler.



Top-mount hammer



Ripper



Dual-cylinder Hydraulic Shear (Concrete)



Dual-cylinder Hydraulic Shear (Scrap Steel)



Pulverizer



Timber (Stone) grab



Tilt bucket

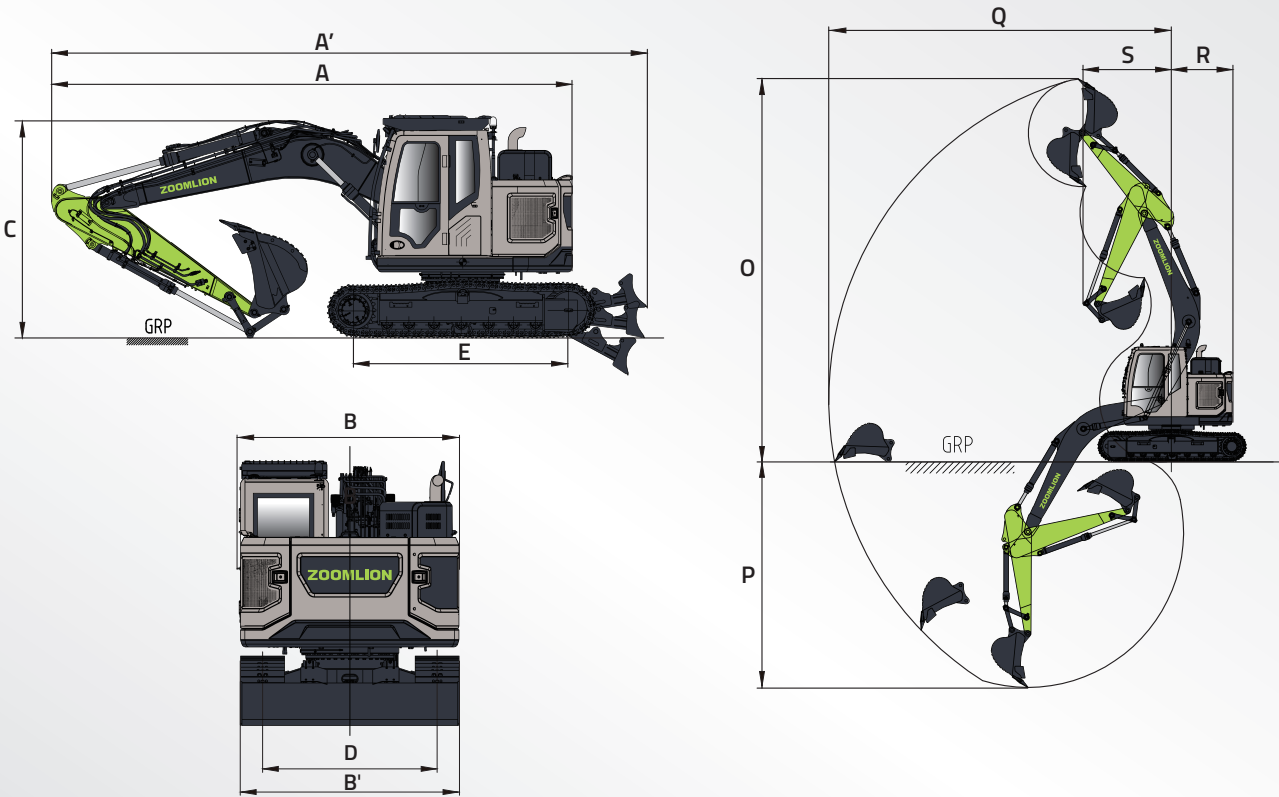
Please contact with ZOOMLION for more available attachments.



TECHNICAL SPECIFICATIONS

|                                       | ZE145GU                                                               |
|---------------------------------------|-----------------------------------------------------------------------|
| ENGINE                                |                                                                       |
| Brand                                 | Cummins                                                               |
| Model                                 | F3.8                                                                  |
| Rated power                           | 90 kW @ 2200 rpm                                                      |
| Displacement                          | 3.8 L                                                                 |
| Emission standard                     | EPA T4F / EU Stage V                                                  |
| HYDRAULIC SYSTEM                      |                                                                       |
| Main pump                             | Two variable displacement piston pumps<br>Maximum flow: 2x127.5 L/min |
| Pilot pump                            | One gear pump<br>Maximum flow: 17 L/min                               |
| Maximum pressure - Equipment          | 34.3 MPa                                                              |
| Maximum pressure - Swing              | 25 MPa                                                                |
| Maximum pressure - Travel             | 34.3 MPa                                                              |
| Maximum pressure - Boost              | 37 MPa                                                                |
| Maximum pressure – Pilot system       | 3.9 MPa                                                               |
| UPPER FRAME                           |                                                                       |
| Maximum swing speed                   | 12 r/min                                                              |
| Maximum swing torque                  | 39 kN·m                                                               |
| UNDERCARRIAGE                         |                                                                       |
| Number of carrier rollers (each side) | 1(Two sides supported track rollers)                                  |
| Number of track rollers (each side)   | 7                                                                     |
| Number of idlers (each side)          | 1                                                                     |
| Travel speed (high)                   | 5.4 km/h                                                              |
| Travel speed (low)                    | 3.0 km/h                                                              |
| Maximum drawbar pull                  | 130 kN                                                                |
| Gradeability                          | 70 %                                                                  |
| SERVICE REFILL CAPACITIES             |                                                                       |
| Fuel tank                             | 200 L                                                                 |
| Engine coolant                        | 27 L                                                                  |
| Engine oil                            | 12 L                                                                  |
| Swing drive                           | 1.8 L                                                                 |
| Final drive (each side)               | 2.2 L                                                                 |
| Hydraulic system                      | 130 L                                                                 |
| Hydraulic tank                        | 145 L                                                                 |
| WORK EQUIPMENT                        |                                                                       |
| Boom length                           | 4600 mm                                                               |
| Arm length                            | 2500 mm                                                               |
| Bucket digging force                  | 108 kN                                                                |
| Arm digging force                     | 69 kN                                                                 |

|                                      | ZE145GU |
|--------------------------------------|---------|
| OVERALL DIMENSIONS                   |         |
| A Overall length (To counterweight)  | 7395 mm |
| A' Overall length (To dozer)         | 8110mm  |
| B Overall width (including handrail) | 2500 mm |
| B' Overall width (Track)             | 2490 mm |
| C Overall height                     | 2955 mm |
| D Track gauge                        | 1990 mm |
| E Length of track on ground          | 2920 mm |
| WORKING RANGE                        |         |
| O Maximum digging height             | 9390 mm |
| P Maximum digging depth              | 5505 mm |
| Q Maximum digging reach              | 8410 mm |
| R Tail swing radius                  | 1490 mm |
| S Front minimum swing radius         | 2165 mm |



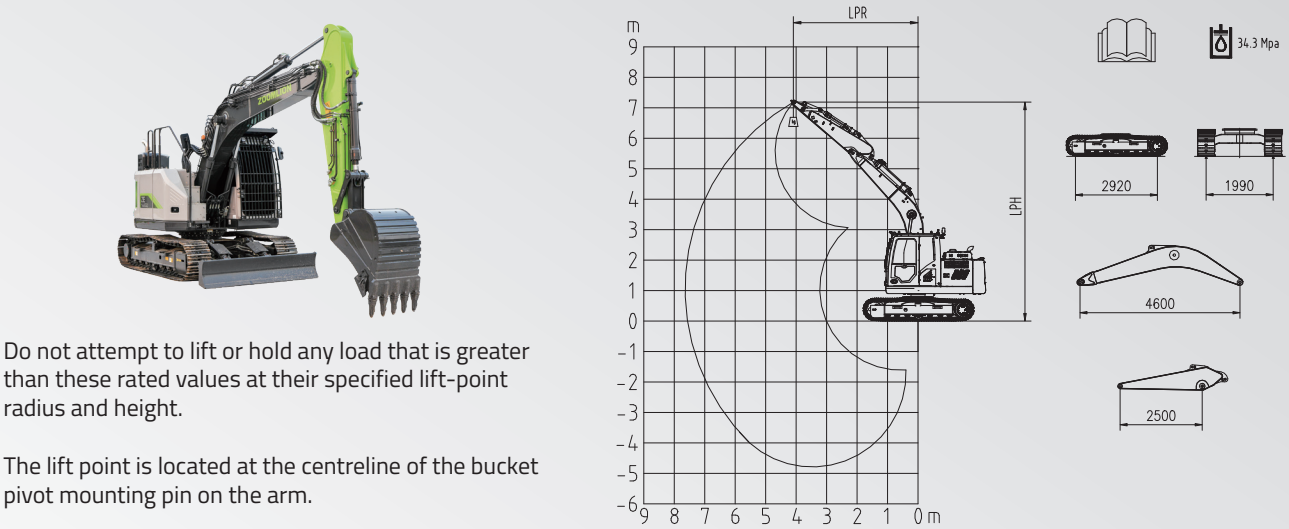


STANDARD & OPTIONAL FEATURES

| Category          | Features                       | ZE145GU |
|-------------------|--------------------------------|---------|
| Powertrain        | Air cleaner                    | ●       |
| Hydraulic system  | Attachments plumbing           | ●       |
|                   | Quick coupler plumbing         | ●       |
|                   | Boom cylinder hose burst valve | ●       |
|                   | Arm cylinder hose burst valve  | ●       |
| Cab               | ROPS                           | ●       |
|                   | Mesh guard                     | ○       |
|                   | Skeleton guard                 | ○       |
|                   | Fire extinguisher              | ●       |
|                   | Air suspension seat            | ●       |
|                   | Sunshade curtain               | ○       |
|                   | Air conditioner                | ●       |
|                   | Multifunctional joystick       | ●       |
| Undercarriage     | 500mm rubber track pad         | ○       |
|                   | 500mm track                    | ●       |
|                   | 600mm track                    | ○       |
|                   | 700mm track                    | ○       |
|                   | Dozer blade                    | ●       |
| Electrical system | Acousto-optic alarm            | ●       |
|                   | Emergency stop                 | ●       |
|                   | 12V DC outlets                 | ●       |
|                   | Rear view camera               | ●       |
|                   | Cab front light                | ● 2 pcs |
|                   | Boom light                     | ● 2 pcs |
|                   | Upper frame light              | ● 1 pc  |
|                   | Refueling pump                 | ●       |
|                   | GPS                            | ●       |
|                   | Am/Fm radio                    | ●       |
|                   | Right view camera and light    | ●       |
|                   | Counterweight light            | ●       |
|                   | Cab rear light                 | ●       |
| Others            | Cab rear mirror                | ● 1 pc  |
|                   | Handrail rear mirror           | ● 1 pc  |

● Standard      ○ Optional

LIFT CAPACITY



| LPH   | Rated lift capacity (kg) |       |       |       |       |       |       |       |      |      |                                 |       |      |
|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|---------------------------------|-------|------|
|       | LPR                      |       |       |       |       |       |       |       |      |      | Lift capacity at maximum radius |       |      |
|       | 1.5m                     |       | 3.0m  |       | 4.5m  |       | 6.0m  |       | 6.0m |      |                                 |       |      |
| m     | End                      | Side  | End   | Side  | End   | Side  | End   | Side  | End  | Side | End                             | Side  | m    |
| 6.0m  |                          |       |       |       |       |       | *3390 | *3390 |      |      | *2504                           | *2504 | 5.41 |
| 4.0m  |                          |       |       |       | *4541 | *4541 | *4024 | *4024 | 3144 | 2138 | *2318                           | 1791  | 6.62 |
| 3.0m  |                          |       |       |       | *6175 | *6175 | *4762 | 3949  | 3082 | 2081 | *2340                           | 1627  | 6.93 |
| 2.0m  |                          |       |       |       |       |       | *5556 | 3707  | 3004 | 2010 | *2307                           | 1537  | 7.07 |
| 1.0m  |                          |       |       |       |       |       | 5523  | 3507  | 2929 | 1941 | 2276                            | 1507  | 7.07 |
| 0m    |                          |       |       |       | *6778 | 5196  | 5373  | 3377  | 2870 | 1887 | 2325                            | 1533  | 6.92 |
| -1.0m |                          |       | *5036 | *5036 | *8479 | 5170  | 5303  | 3317  | 2837 | 1858 | 2474                            | 1627  | 6.61 |
| -2.0m | *6579                    | *6579 | *7520 | *7520 | *7709 | 5189  | 5298  | 3314  | 2850 | 1868 | 2778                            | 1824  | 6.12 |
| -3.0m | *9281                    | *9281 | *8601 | *8601 | *6525 | 5302  | *5068 | *3361 |      |      | *3372                           | 2212  | 5.39 |

Capacities marked with an asterisk (\*) are limited by hydraulic capacities. See Note 2.

- The mass of slings and any auxiliary lifting devices shall be deducted from the rated load to determine the net load that may be lifted.
- Lift capacities are based on the machine standing on a firm, uniform supporting surface. The user shall make allowances for job conditions such as soft or uneven ground.
- The operator should be fully acquainted with the Operator's Manual and the Operating Safety Manual furnished by the manufacturer before operating the machine.
- NOTE 1 Lift capacities shown are without the power boost feature engaged.
- NOTE 2 Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- NOTE 3 The least stable position is over the side.
- NOTE 4 Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
- NOTE 5 The total mass of the machine is 15800kg. Included in this mass are 500mm triple grouser shoes, 4.6m boom, 2.5m arm, 2000kg counterweight, all operating fluids and a 75kg operator.
- NOTE 6 Lift capacities are in compliance with ISO 10567:2007.



**VISION  
CREATES  
FUTURE**

