

CX

SERIES MINI-EXCAVATORS
CX40B^{ZTS} CX50B^{ZTS}

CASE



P R O F E S S I O N A L P A R T N E R

CX40B^{ZTS} CX50B^{ZTS}



HYDRAULICS

Completely redesigned component layout: hydraulic components are now grouped on the right side of the machine. A wide, hinged panel provides **easy access to all hydraulic components**. The lower deck can be easily and independently unbolted.



ENGINE

The new engines are still located at the rear but the access to main components such as air filter, engine oil filters and the water separator, is now highly improved thanks to the **new layout** and to a **wide, hinged panel**.



ZERO TAIL SWING

A smart, compact design allows these machines to **rotate completely within the width of their tracks**. With the advantage of zero tail swing, operators enjoy the confidence that the excavator won't strike work-site objects or suffer damage. In this case, zero means a lot.



FUEL TANK

The **Polyethylene, rust free, fuel tank** is now located on the left-rear side of the machine and **can be easily refilled from ground level** simply by unscrewing the fuel cap.



BLADE

The front blade, newly designed, features a sophisticated “roll away” shape.

In backfilling operations, the earth rolls away in front of the blade.

In addition, it ensures unrivalled strokes:

- for quicker backfilling operations;
- for excellent gradeability with the blade raised, to overcome obstacles, such as heaps of earth, on the job site.



CAB / CANOPY ERGONOMY

Wider entrance and operator compartment.

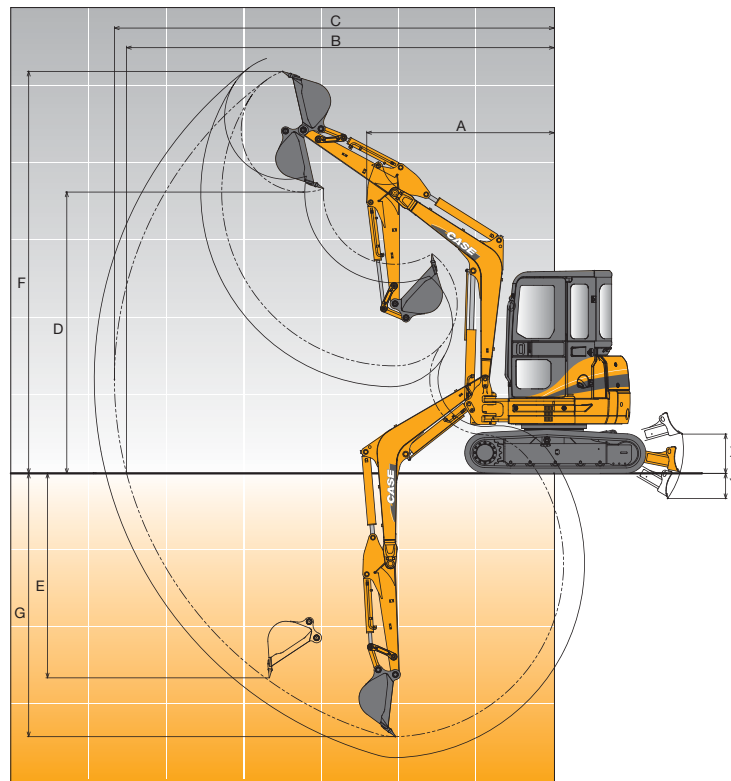
Enhanced visibility in all directions, both in cab and canopy versions. **Ergonomically located, pilot-operated joystick controls**, combined with the well located pedals and switches, provide **maximum operator comfort**.

TRACKS

The machine can be supplied with **rubber or steel tracks** which are **completely interchangeable**.

This gives the customer free choice according to the job site where the machine is expected to operate.

WORKING RANGE



CX40B^{ZTS} canopy

CX40B^{ZTS} cab

CX50B^{ZTS} canopy

CX50B^{ZTS} cab

| | mm | CX40B ^{ZTS} canopy | | CX40B ^{ZTS} cab | | CX50B ^{ZTS} canopy | | CX50B ^{ZTS} cab | |
|---|----------------|-----------------------------|-----------------------|--------------------------|-----------------------|-----------------------------|-----------------------|--------------------------|-----------------------|
| | | STD. DIPPER 1.43 m | LONG DIPPER 1.70 m | STD. DIPPER 1.43 m | LONG DIPPER 1.70 m | STD. DIPPER 1.56 m | LONG DIPPER 1.87 m | STD. DIPPER 1.56 m | LONG DIPPER 1.87 m |
| A Min. swing radius | mm | 2100 | 2200 | 2410 | 2430 | 2150 | 2230 | 2560 | 2580 |
| B Max. digging reach at ground level | mm | 5510 | 5770 | 5510 | 5770 | 5750 | 6050 | 5750 | 6050 |
| C Max. digging reach | mm | 5660 | 5920 | 5660 | 5920 | 5890 | 6190 | 5890 | 6190 |
| D Max. dumping height | mm | 3910 | 4100 | 3620 | 3790 | 4090 | 4290 | 3680 | 3840 |
| E Max. vertical digging depth | mm | 2630 | 2910 | 2630 | 2910 | 2810 | 3120 | 2810 | 3120 |
| F Max. digging height | mm | 5490 | 5680 | 5180 | 5340 | 5670 | 5880 | 5210 | 5380 |
| G Max. digging depth | mm | 3390 | 3660 | 3390 | 3660 | 3590 | 3900 | 3590 | 3900 |
| X Dozer strokes (above) | mm | 505 | 505 | 505 | 505 | 495 | 495 | 495 | 495 |
| Y Dozer strokes (below) | mm | 325 | 325 | 325 | 325 | 375 | 375 | 375 | 375 |
| Bucket breakout force | kN | 36 | | 36 | | 36 | | 36 | |
| Dipperstick breakout force | kN | 22 | 20 | 22 | 20 | 27 | 24 | 27 | 24 |
| Bucket range | m ³ | 0.09 to 0.18 | | 0.09 to 0.18 | | 0.09 to 0.18 | | 0.09 to 0.18 | |

ENGINE

| | |
|-------------------------------------|--|
| Model | YANMAR 4TNV88A-XYB |
| Type | Water-cooled. 4 cycle. direct injection, diesel engine* |
| Cylinders | 4 |
| Bore and stroke | 88 mm x 90 mm |
| Displacement | 2190 cm ³ |
| Net output power (ISO 14396) | 32 kW/43 hp @ 2400 rpm |
| Net maximum torque | 139.3 Nm @ 1440 rpm |
| Starting motor | 2.3 kW |
| Alternator | 55 A / 12 V |
| Batteries | 1 x 72 Ah |

* Tier 2 emissioned engine complies with 97/68/CE STAGE 2 rules

PERFORMANCE

| | | |
|---|-------------|--------------|
| Travel speed (rubber/steel tracks) | low | 2.8/2.5 km/h |
| | high | 4.6/4.2 km/h |
| Gradeability | 58% - 30° | |
| <small>(Gradeability is limited by engine lubrication requirements)</small> | | |

CAPACITIES

| | |
|-------------------------|-------------|
| Fuel | 53.0 litres |
| Coolant | 6.0 litres |
| Engine oil | 7.4 litres |
| Hydraulic system | 63.0 litres |

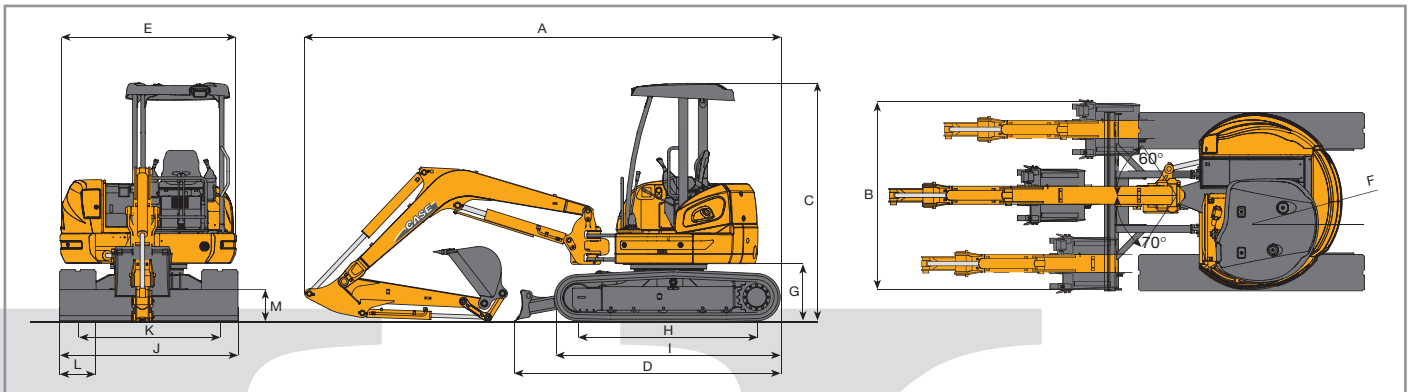
HYDRAULIC SYSTEM

| | |
|--|--|
| Hydraulic pumps | 2 variable displacement axial piston pumps + 1 gear pump |
| Total delivery | 2 x 57 l/min + 34 l/min |
| Max. operating pressure | 230 bar |
| Hydraulic motor with reduction gear | 2-axial piston, 2-speed motor |
| Cylinders (boom, dipper, boom swing, bucket, dozer) | Double action cylinders |

SWING

| | | |
|-----------------------|--------------------|-----|
| Hydraulic motor | Axial piston type | |
| Swing speed | 8.8 rpm | |
| Swing brake | Automatic | |
| Boom swing type | Hydraulic cylinder | |
| Boom swing angle | right | 60° |
| | left | 70° |
| Tail swing radius (F) | 980 mm | |

GENERAL DIMENSIONS



| | | CX40B ^{ZTS} _{canopy} CX40B ^{ZTS} _{cab} | CX50B ^{ZTS} _{canopy} CX50B ^{ZTS} _{cab} |
|-------------------------------------|----|---|---|
| A Overall length | mm | 5000 | 5230 |
| B Overall width | mm | 1960 | 1960 |
| C Overall height | mm | 2600 | 2600 |
| D Basic machine length | mm | 2780 | 2910 |
| E Width of upperstructure | mm | 1940 | 1940 |
| F Tail swing radius | mm | 980 | 980 |
| G Ground clearance of rear end | mm | 635 | 635 |
| H Length of tracks on ground | mm | 1820 | 1970 |
| I Overall length of crawler | mm | 2330 | 2480 |
| J Overall width of crawler | mm | 1960 | 1960 |
| K Track gauge | mm | 1560 | 1560 |
| L Crawler shoe width (rubber/steel) | mm | 400 | 400 |
| M Blade height | mm | 345 | 345 |
| Ground clearance of undercarriage | mm | 345 | 345 |

WEIGHTS AND GROUND PRESSURE

| | | CX40B ^{ZTS} _{canopy} CX40B ^{ZTS} _{cab} | | CX50B ^{ZTS} _{canopy} CX50B ^{ZTS} _{cab} | |
|-------------------------|-----|---|------|---|------|
| | | ● | ● | ● | ● |
| OPERATING WEIGHT | | | | | |
| Rubber tracks | kg | 4200 | 4340 | 4630 | 4770 |
| Steel tracks | kg | 4300 | 4440 | 4730 | 4870 |
| GROUND PRESSURE | | | | | |
| Rubber tracks | bar | 0.26 | 0.27 | 0.26 | 0.27 |
| Steel tracks | bar | 0.26 | 0.27 | 0.27 | 0.27 |

Additional bolted counterweight is available when "High stability" performance is required.

| | | | |
|-------------------|----|------|------|
| Weight | kg | +350 | +350 |
| Tail swing radius | mm | +100 | +100 |

