

# SERVICE & SUPPORT

## At Case Construction we know how important equipment uptime is.

That's why we have invested heavily in our national dealer network, training, parts and maintenance to ensure that your equipment is kept running. Case Construction is on hand should you require repairs, parts, machine servicing and much more.

For all your Case Construction needs including:

- National dealer network
- Factory trained service technicians
- National Parts Distribution Centre
- Service vans equipped with the latest diagnostic tools
- Genuine Case parts with warranty
- Servicing all makes and models

### Contact a Case dealer

#### New South Wales

**Case NSW**  
2 Vicars Pl  
Wetherill Park NSW 2164  
Tel. 02 9765 2200

#### Hartwigs

156 Uriarra Rd  
Queanbeyan NSW 2620  
Tel. 02 6297 2888

#### Hartwigs

266 Hammond Ave  
Wagga Wagga NSW 2650  
Tel. 02 6937 8500

#### Victoria

**Case VIC**  
117 Frankston-  
Dandenong Rd  
Dandenong VIC 3175  
Tel. 03 8710 5000

#### Hartwigs

320 Midland Hwy  
Shepparton VIC 3630  
Tel. 03 5820 7800

#### Queensland

**McDonald Murphy**  
**Brisbane**  
49 Boundary Rd  
Rocklea QLD 4106  
Tel. 07 3710 8300

**McDonald Murphy**  
**Mackay**  
26316 Peak Downs Hwy  
Mackay QLD 4741  
Tel. 07 4952 4550

**Milne Bros**  
324 Campbell St  
Rockhampton QLD 4700  
Tel. 07 4930 0333

**Prime Movers**  
23-27 Langton St  
Garbutt QLD 4814  
Tel. 07 4779 0077

**QMAC Machinery**  
680-682 Bruce Hwy  
Cairns QLD 4868  
Tel. 07 4054 1717

#### South Australia

**SA Tractors**  
Unit 12, 160 Churchill  
Road North,  
Cavan SA 5094  
Tel. 08 8349 7500

#### Northern Territory

**Western Diesel**  
1 Toupein Rd  
Palmerston NT 0831  
Tel. 08 8935 9100

#### Western Australia

**McIntosh & Son**  
547 Great Eastern Hwy  
Redcliffe WA 6104  
Tel. 08 9475 1600



**CASE**  
CONSTRUCTION

**C-SERIES SR EXCAVATORS**  
**CX145C | CX235C**





# MEET THE HIGH EFFICIENCY CASE CX145C & CX235C EXCAVATORS



## Case has built a reputation around power, reliability and fuel efficiency

### Superior fuel economy slashes operating costs

Case excavators deliver up to 15% greater fuel efficiency than the competition. Plus, the C-Series is engineered to deliver up to a 10% fuel savings over our previous models.

Plus, you'll reduce cost and service time with our best-in-class 500-hour engine oil change interval, 5000-hour hydraulic oil change interval and 1000-hour greasing interval with our Extended Maintenance System.

### Advanced Energy Management Systems for fuel economy

1. Boom Economy Control (BEC)
2. Automatic Economy Control (AEC)
3. Swing Relief Control (SWC)
4. Spool Stroke Control (SSC)
5. Auto Idle Shut Down System



### Easy maintenance

Case has a well-earned reputation for easy-to-maintain and service equipment. Features include wide-open panels for easy access to service points, ground level access to grouped lubrication points, along with quick-change filters and simple gauges for daily service checks.

### Minimum swing radius

The CX145C & CX235C offer the same performance levels as the current 'conventional swing' C-Series models, however with a minimum tail swing, these models allow for better access and less chance of machine/jobsite damage in compact areas.



### Increased operator comfort and control

Featuring an all new ROPS cab, the C-Series is designed with comfort and productivity in mind. Operator comfort has been increased by a 7% larger cabin, increasing airflow by 25% and air-conditioning performance by 8%. The new control monitor provides a wide range of operating data at the operators fingertips including fuel consumption. Also included is an easy-to-use auxiliary hydraulic setting system with the option for up to 10 memory recall settings to make tool changes quick and operator friendly.



### Tier 4 interim – clean and efficient

The new Isuzu 4-cylinder engine meets EPA's Tier 4 interim without a need for additional diesel exhaust fluid. The engine, cooling system and exhaust system are designed to take advantage of all available space, while also granting excellent serviceability and operator visibility. Low engine rpm in combination with further improved pump torque control and, 5 new energy savings systems reduces the fuel consumption further by up to 10%.



# CX145C SPECIFICATIONS

## ENGINE

Model	Isuzu AM-4JJ1X, Tier 4 Interim Certified
Type	Water-cooled, 4 cycle high pressure common rail system turbo charged with air cooled intercooler, DPD system
Cylinder	4
Bore/Stroke	95.4 x 104.9 mm
Displacement	3.0 L
Fuel injection	Direct
Fuel	Ultra low-sulfur
Fuel filter	Replaceable – full flow spin on carriage
Air filter	Dry type element
Cooling	43° to -25°
Oil	Low ash
Horsepower per SAE J1349	74.9 kW @ 2000 rpm
Max torque	359 N-m @ 1600 rpm

## SERVICE CAPACITIES

Fuel tank	320 L
Hydraulic system	252 L
Hydraulic tank	114 L
Engine oil with filter	23.1 L
Swing drive	5.0 L
Cooling system	15.3 L

## ELECTRICAL

Voltage	24 volts
Alternator rating	50 amp
Batteries	2 x 12 volt
Battery reserve capacity	72 Ah / 5 hr
Work lights	24 volt / 70 watt

## SWING MECHANISM

Swing speed	0 - 10.6 rpm
Swing torque	37,000 N-m
Swing brake	Mechanical disc

## GROUND PRESSURE

Standard operating weight	5.95 psi
Triple semi grouser shoes	500 mm

## UNDERCARRIAGE

Length	3.76 m
Track gauge	1.99 m
Carrier rollers	1 per side
Track rollers	7 per side
Shoes	
Triple grouser	43 per side
Shoe width (std.)	500 mm
Link pitch	172 mm

Track	
Chain	Grease lubricated/strutted
Guides	Single
Adjustment	Hydraulic

## DOZER BLADE

Blade width	2490 mm
Blade height	570 mm
Max. lift above ground	510 mm
Max. drop below ground	520 mm

## HYDRAULICS

System design	Open center
Main pumps	Variable displacement
Max. rated flow	2 x 129 L/min

System Pressures	
Boom, arm & bucket	4,970 psi
Boom, arm & bucket w/ power boost	5,260 psi
Travel circuits	4,970 psi
Swing circuits	4,060 psi
Pilot pump Max capacity	20 L/min
Blade pump Max capacity	62 L/min

Controls	
Dozer blade	One-spool section
Right track travel, bucket, boom & arm acceleration	Four-spool section
Left track travel, auxiliary, swing, boom acceleration	Five-spool section

Work mode selections	SP: Speed priority H: Heavy duty A: Automatic
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Swing motor	Fixed displacement
Swing final drive	Planetary gear reduction
Travel motor	Two-speed independent

## HYDRAULIC CYLINDERS

Boom cylinders	2
Cylinder bore	105 mm
Cylinder rod diameter	75 mm
Cylinder stroke	1120 mm
Arm cylinders	1
Cylinder bore	115 mm
Cylinder rod diameter	80 mm
Cylinder stroke	1108 mm
Bucket cylinders	1
Cylinder bore	95 mm
Cylinder rod diameter	65 mm
Cylinder stroke	881 mm
Blade cylinders	2
Cylinder bore	115 mm
Cylinder rod diameter	70 mm
Cylinder stroke	250 mm

## OPERATING WEIGHT

Operating weight	14,600 kg
With shoes	500 mm
With boom	4.63 m
With arm	2.5 m
With bucket	400 kg
With counterweight	3,700 kg

## CAB & CONTROL

Air conditioner output	18,100 BTU/hr
Heater output	20,150 BTU/hr
Sound level (inside cab)	70 dBa
Electrical outlet	12 volt
Cab interior light	10 watt
Rear-view camera	Standard
Seat	Air suspension

## DRIVE TRAIN

Travel control	Dual stage relief/counter balance design
Brakes	Mechanical disc
Service brakes	SAHR disc

Two speed travel	
Max high speed	5.6 kph
Max low speed	3.2 kph
Drawbar pull	116kN
Gradeability	70% (35° slope)

## STANDARD EQUIPMENT

Engine	
Isuzu four-cylinder turbo-charged diesel	
Tier 4 Interim Certified (CEGR)	
Electronic fuel injection	
High pressure common rail system	
Diesel Particulate Defuser System (DPD)	
Neutral safety start	
Auto-engine warm up	
Glow-plug preheat	
EPF (Engine Protection Feature)	
Dual-stage fuel filtration	
Dual element air filter	
Remote oil filter	
Green plug oil drain	
500-hour engine oil change interval	
24-volt system	

Fuel Economy Systems	
Engine Idle/Fuel Economy System:	
Auto-idle	
One-touch idle	
Idle shut-down	
BEC – Boom Economy Control	
AEC – Auto Economy Control	
SWC – Swing Relief Control	
SSC – Spool Stroke Control	

Hydraulics	
Auto power boost	
Auto swing priority	
Auto travel speed change	
Selectable work modes	
ISO pattern controls	
Preset auxiliary pump settings	
Auxiliary valve	
Auxiliary pipe brackets	
5,000-hour hydraulic oil change interval	
1,000-hour hydraulic filter change interval	
SAHR brake	
Hose Burst Control Valves (HBCV)	

Upper Structure	
Right and left side mirrors	
Isolation mounted cab (fluid and spring)	
Common key vandal locks	
Upper mounted work light (70 watt)	
Swivel guard belly pan	

## STANDARD EQUIPMENT (cont.)

Attachments	
Boom – 4.63 m (Heavy Duty)	
Arm – 2.50 m (Heavy Duty)	
Heavy-duty bucket linkage	
Boom mounted work light (70 watt)	
Auxiliary pipe brackets	
Centralised grease fittings	
Attachment cushion valve	
Arm and boom regeneration	

Operator Station	
ROPS protection	
FOPS cab top guard (Level 2)	
Pressurised cab	
One-touch lock front window	
AC/heat/defrost w/ auto climate control	
Colour monitor – 180 mm	
Interior dome light	
Air-suspension seat (cloth)	
Seatbelt (3 in)	
Adjustable armrests	
Tilting consoles – 4-position	
Low-effort joystick controls	
Sliding cockpit – 180 mm	
Controls prewired for auxiliary	
AM/FM radio w/ antenna and 2 speakers	
Aux-in port for personal electronics	
Rear-view camera	
Anti-theft system (start code system)	
Rubber floormat	
12-volt electric outlet	
24-volt cigarette lighter	
External rear view mirrors	
Windshield wiper/washer	
Clear (polycarbonate) roof window w/ sunshade	
Cup holder	
Storage compartments	
On-board diagnostic system	
Travel alarm with cancel switch	
One key start and lock-up	

Undercarriage	
500 mm steel shoes, triple semi-grouser	
Full overlap turntable bearing tub	
Single track chain guides	
Hydraulic track adjustment	
X-pattern carbody	

Auxiliary Hydraulics	
Double acting	
Twin pump flow	
Multi-function (ten programmable presets on monitor)	

## OPTIONAL EQUIPMENT

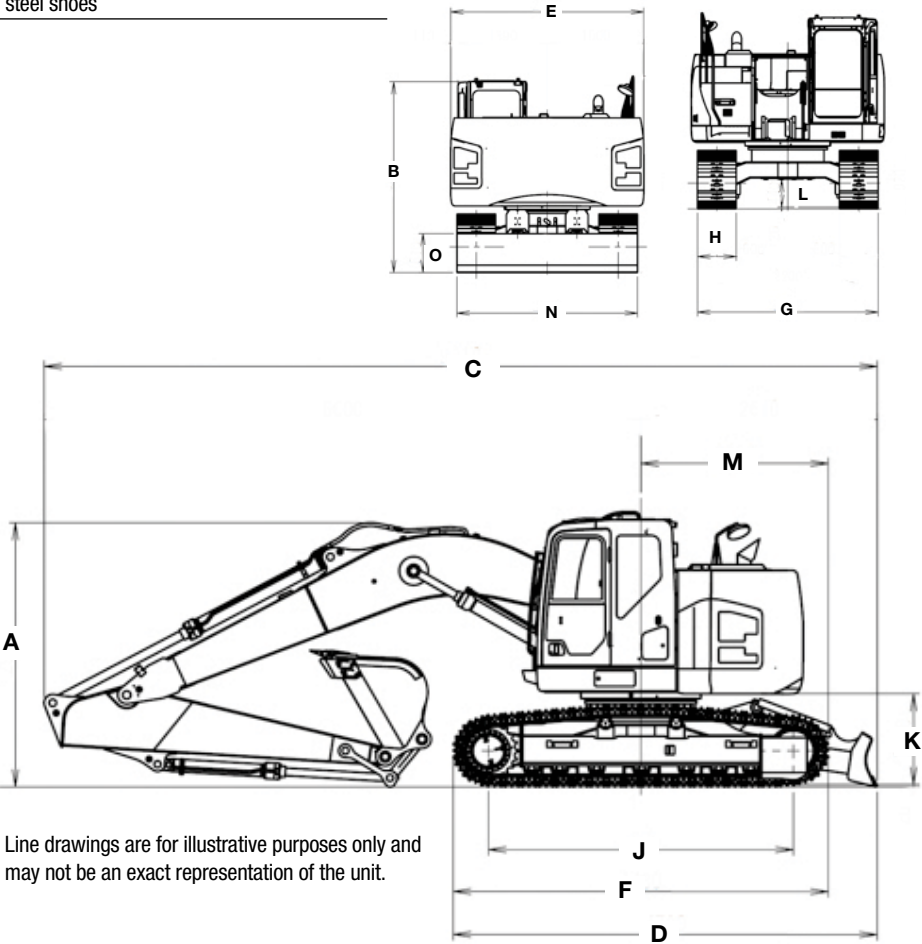
Hydraulics	
Auxiliary hydraulics:	
Secondary low-flow	
Attachment	
Offset boom – 4.63 m	
Arm – 2.41 m (offset boom)	
Arm – 3.01 m (standard boom)	
Free swing	

Operator Station	
Control pattern selector	
Front grill guard – 2 x 2 screen mesh	
Front rock guard – vertical bars (two piece)/OPG 1	
Front rock guard – vertical bars (fixed/one piece)/OPG 2	
Vandal guard	
Rain deflector	
Sun visor	
Side-view camera	
Refuelling pump	

Undercarriage	
Track guides – double	
500 mm rubber shoes	
600 mm steel shoes	
700 mm steel shoes	

## DIMENSIONS

	2.5 m Arm
A. Overall height with attachment	2.80 m
B. Cab height	2.80 m
C. Overall length with attachment	7.88 m
D. Overall length without attachment	4.16 m
E. Width of upperstructure	2.49 m
F. Track overall length	3.50 m
G. Track overall width with 500 mm shoes	2.49 m
H. Track shoe width	600 mm
J. Center to center	2.79 m
K. Upperstructure ground clearance	0.88 m
L. Minimum ground clearance	0.44 m
M. Rear tail swing radius	1.55 m
N. Dozer blade width	2.49 m
O. Dozer blade height	570 mm



Line drawings are for illustrative purposes only and may not be an exact representation of the unit.

# CX235C SPECIFICATIONS

## ENGINE

Model	Isuzu AM-4HK1X, Tier 4 Interim Certified	
Type	Water-cooled, 4 cycle high pressure common rail system turbo charged with air cooled intercooler, DPD system	
Cylinder	4	
Bore/Stroke	115 x 125 mm	
Displacement	5.2 L	
Fuel injection	Direct	
Fuel	Ultra low-sulfur	
Fuel filter	Replaceable – full flow spin on carriage	
Air filter	Dry type element	
Cooling	43° to -25°	
Oil	Low ash	
Horsepower per SAE J1349	119.3 kW @ 1800 rpm	
Max torque	621 N-m @ 1500 rpm	

## SERVICE CAPACITIES

Fuel tank	320 L
Hydraulic system	252 L
Hydraulic tank	114 L
Engine oil with filter	23.1 L
Swing drive	5.0 L
Cooling System	30.9 L

## ELECTRICAL

Voltage	24 volts
Alternator rating	50 amp
Batteries	2 x 12 volt
Battery reserve capacity	92 Ah / 5 hr
Work lights	24 volt / 70 watt

## SWING MECHANISM

Swing speed	0 - 11.8 rpm
Swing torque	64,000 N-m
Swing brake	Mechanical disc

## GROUND PRESSURE

Standard operating weight	8.4 psi
Triple semi grouser shoes	600 mm

## UNDERCARRIAGE

Length	4.18 m
Track gauge	2.2 m
Carrier rollers	2 per side
Track rollers	7 per side
Shoes	
Triple grouser	46 per side
Shoe width (std.)	600 mm
Link pitch	190 mm

Track	
Chain	Grease lubricated/strutted
Guides	Single
Adjustment	Hydraulic

## DOZER BLADE

Blade width	2800 mm
Blade height	610 mm
Max. lift above ground	490 mm
Max. drop below ground	390 mm

## HYDRAULICS

System design	Open center
Main pumps	Variable displacement
Max. rated flow	2 x 211 L/min

### System Pressures

Boom, arm & bucket	4,970 psi
Boom, arm & bucket w/ power boost	5,330 psi
Travel circuits	4,970 psi
Swing circuits	4,260 psi
Pilot pump Max capacity	18 L/min
Blade pump Max capacity	62 L/min

### Controls

Dozer blade	One-spool section
Right track travel, bucket, boom & arm acceleration	Four-spool section
Left track travel, auxiliary, swing, boom acceleration	Five-spool section

Work mode selections	SP: Speed priority H: Heavy duty A: Automatic
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Swing motor	Fixed displacement
Swing final drive	Planetary gear reduction
Travel motor	Two-speed independent

## HYDRAULIC CYLINDERS

Boom cylinders	2
Cylinder bore	120 mm
Cylinder rod diameter	85 mm
Cylinder stroke	1370 mm
Arm cylinders	1
Cylinder bore	140 mm
Cylinder rod diameter	100 mm
Cylinder stroke	1460 mm
Bucket cylinders	1
Cylinder bore	120 mm
Cylinder rod diameter	85 mm
Cylinder stroke	1010 mm
Blade cylinders	2
Cylinder bore	130 mm
Cylinder rod diameter	80 mm
Cylinder stroke	260 mm

## OPERATING WEIGHT

Operating weight	25,000 kg
With shoes	600 mm
With boom	5.70 m
With arm	2.94 m
With bucket	794 kg
With counterweight	7,700 kg

## CAB & CONTROL

Air conditioner output	18,100 BTU/hr
Heater output	20,150 BTU/hr
Sound level (inside cab)	70 dBa
Electrical outlet	12 volt
Cab interior light	10 watt
Rear-view camera	Standard
Seat	Air suspension

## DRIVE TRAIN

Travel control	Dual stage relief/counter balance design
Brakes	Mechanical disc
Service brakes	SAHR disc

### Two speed travel

Max high speed	5.0 kph
Max low speed	3.2 kph
Drawbar pull	200 kN
Gradeability	70% (35° slope)

## STANDARD EQUIPMENT

### Engine

Isuzu four-cylinder turbo-charged diesel
Tier 4 Interim Certified (CEGR)
Electronic fuel injection
High pressure common rail system
Diesel Particulate Defuser System (DPD)
Neutral safety start
Auto-engine warm up
Glow-plug preheat
EPF (Engine Protection Feature)
Dual-stage fuel filtration
Dual element air filter
Remote oil filter
Green plug oil drain
500-hour engine oil change interval
24-volt system

### Fuel Economy Systems

Engine Idle/Fuel Economy System:
Auto-idle
One-touch idle
Idle shut-down
BEC – Boom Economy Control
AEC – Auto Economy Control
SWC – Swing Relief Control
SSC – Spool Stroke Control

### Hydraulics

Auto power boost
Auto swing priority
Auto travel speed change
Selectable work modes
ISO pattern controls
Preset auxiliary pump settings
Auxiliary valve
Auxiliary pipe brackets
5,000-hour hydraulic oil change interval
1,000-hour hydraulic filter change interval
SAHR brake
Hose Burst Control Valves (HBCV)

### Upper Structure

Right and left side mirrors
Isolation mounted cab (fluid and spring)
Common key vandal locks
Upper mounted work light (70 watt)
Swivel guard belly pan

## STANDARD EQUIPMENT (cont.)

### Attachments

Boom – 5.7 m (Heavy Duty)
Arm – 2.94 m (Heavy Duty)
Heavy-duty bucket linkage
Boom mounted work light (70 watt)
Auxiliary pipe brackets
Centralised grease fittings
Attachment cushion valve
Arm and boom regeneration

### Operator Station

ROPS protection
FOPS cab top guard (Level 2)
Pressurised cab
One-touch lock front window
AC/heat/defrost w/ auto climate control
Colour monitor – 180 mm
Interior dome light
Air-suspension seat (cloth)
Seatbelt (3 in)
Adjustable armrests
Tilting consoles – 4-position
Low-effort joystick controls
Sliding cockpit – 180 mm
Controls prewired for auxiliary
AM/FM radio w/ antenna and 2 speakers
Aux-in port for personal electronics
Rear-view camera
Anti-theft system (start code system)
Rubber floormat
12-volt electric outlet
24-volt cigarette lighter
External rear view mirrors
Windshield wiper/washer
Clear (polycarbonate) roof window w/ sunshade
Cup holder
Storage compartments
On-board diagnostic system
Travel alarm with cancel switch
One key start and lock-up

### Undercarriage

600 mm steel shoes, triple semi-grouser
Full overlap turntable bearing tub
Single track chain guides
Hydraulic track adjustment
X-pattern carbody

### Auxiliary Hydraulics

Double acting
Twin pump flow
Multi-function (ten programmable presets on monitor)

## OPTIONAL EQUIPMENT

### Hydraulics

Auxiliary hydraulics:
Secondary low-flow

### Attachments

Arm – 2.4 m
Free swing
Operator Station
Control pattern selector
Front grill guard – 2 x 2 screen mesh
Front rock guard – vertical bars (two piece)/OPG 1
Front rock guard – vertical bars (fixed/one piece)/OPG 2
Vandal guard
Rain deflector
Sun visor
Side-view camera
Refuelling pump

### Undercarriage

Track guides – triple
600 mm rubber shoes
800 mm steel shoes

## DIMENSIONS

	2.94 m Arm
A. Overall height with attachment	3.09 m
B. Cab height	3.00 m
C. Overall length with attachment	9.21 m
D. Overall length without attachment	4.70 m
E. Width of upperstructure	2.99 m
F. Track overall length	4.18 m
G. Track overall width with 600 mm shoes	2.8 m
H. Track shoe width	600 mm
J. Center to center	3.37 m
K. Upperstructure ground clearance	1.02 m
L. Minimum ground clearance	1.02 m
M. Rear tail swing radius	1.79 m
N. Dozer blade width	2.80 m
O. Dozer blade height	610 mm

