

HYDRAULIC EXCAVATOR CX80



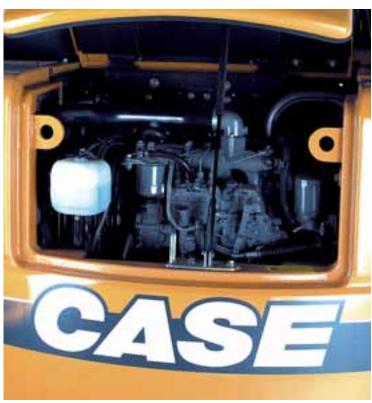
ENGINE

Engine meeting European standards (Tier 2 regulations) "low smoke emissions".

Particularly suitable for urban work, these engines have a very reduced noise level, one of the lowest fuel consumptions on the market and also meet environmental standards. Checking the engine rotation speed using an electric potentiometer.

Manual return to idle, control on RH control lever. Engine preheating. High performance filtration circuit enables oil change intervals to be extended to every 500 h.





HYDRAULIC SYSTEM



FILTRATION

Hydraulic system components protected by "ULTRA CLEAN" filter which filters out particles larger than 1μ and also traces of condensation water. High performance filtration for longer hydraulic fluid life-time (fluid change interval now 5000 hours).

2 variable displacement axial piston hydraulic pumps feeding the attachment, the travel and the swing.





SWING

Fixed displacement, axial piston swing motor. Upperstructure swing speed 10 rpm. Planetary reduction gear with automatic braking by oil bath disc brakes.

TRAVEL

Variable displacement, axial piston hydraulic motors. Planetary reduction gear with automatic braking by oil bath disc brakes.

Two travel speeds (selected on the instrument panel)



CAB

With CASE machines, "smaller machine dimensions" don't mean that there is less space for the operator. The CX80 cab has the same level of comfort and convenience as the standard models in the CX range; it is integrated with the upperstructure and therefore does not affect manoeuvrability on 360° swing. It's still wide enough to provide the operator with maximum comfort and all the advantages of a "standard" machine, including mechanical suspension and a multiadjustable driver's seat, with a storage compartment to the rear LH of the seat. The cab has a large roof window, enabling continuous checking of the bucket position when the attachment is fully retracted. For operator comfort, the cab is insulated from vibration and noise by four elastofluid mountings.







UNDERCARRIAGE



LC type undercarriage providing excellent stability (as a result of its length) and loading capacity comparable to machines of standard dimensions.

Steel or rubber tracks are available.

Upper and lower tracks equipped with bushings and seals.

Travel motors protected and incorporated in the undercarriage.

Track tension adjustable by grease cylinder.



DOZER BLADE

Dozer blade control lever at console height to the right hand side of the cab. Dozer blade movement by a central hydraulic cylinder.









ATTACHMENTS



To meet user requirements, CASE CX80 crawler excavator is suitable for every type of work-site. This machines is mainly used on the following types of work:

- Construction and maintenance of high speed roads and urban streets.
- Construction in residential areas.
- · Demolition.
- Forestry work.
- Machine hire companies.

To provide best possible profitability in the various sorts of work encountered, machine configuration needs to be able to be changed quickly and easily.



THE "CASE" ANSWERS

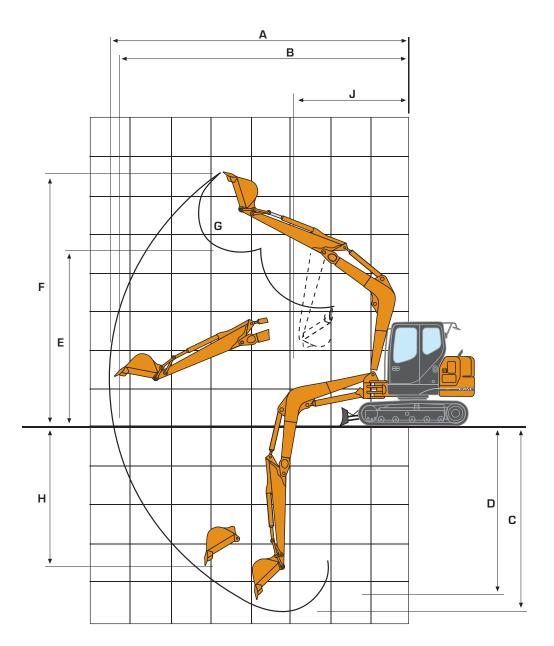
- · A choice of two dipper lengths.
- "MULTIFIT" quick coupler.
- Supply to the most varied types of implement, using supplementary hydraulic functions (swing, tool orientation, etc.)
- Reduced maintenance costs using EMS (Easy Maintenance System) which is standard on the boom foot and head linkages. This system, which is also used on the heavy CX machines, provides a considerable reduction in maintenance intervals (every 1000 h).

SPECIFICATIONS

Relief pressure_

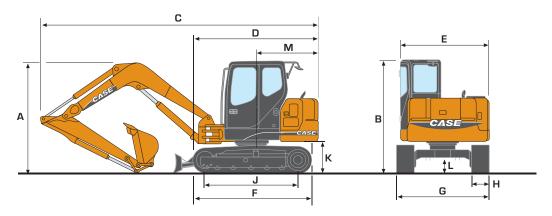
ENGINE	Swing
	Motor (1)Fixed displacement axial piston design
Modellsuzu AU-4LE2X	Speed 0.9 5 rpm
Type4-stroke	SpeedO-9.5 rpm BrakeMechanical disk
Cylinders4	Tail swing radius1.21 m
Bore/Stroke85 x 96 mm	Travel
Displacement2179 cc	Motor (2)Two-speed axial piston design
Fuel injectionDirect	Final drivePlanetary gear reduction
Fuel injection pumpMechanical	Drawbar pull59.2 kN
FuelDiesel	Travel Speeds - Auto shift high to low
Fuel filterIn-line strainer	
CoolingLiquid	Forward/Reverse
Horsepower per SAE J1349	Low3.4 km/h High5.1 km/h
Net54 hp (40 kW) @ 2000 rpm	Travel control valve
Maximum torque @ 1500 rpm	
Net210 Nm	Dual stage relief and counter-balance design
BOOM/ARM	HYDRAULIC CYLINDERS
Swing Boom	Boom cylinders (1)
Length3.50 m	Bore diameter110 mm
Boom w/arm cylinder & plumbing492 kg	Rod diameter70 mm
Hoist cylinders (1)103 kg ea	Stroke911 mm
Total weight595 kg	Arm cylinder (1)
Arm 1.71 m	Bore diameter95 mm
Bare arm140 kg	Rod diameter60 mm
Bucket cylinder linkage& plumbing115 kg	Stroke797 mm
Total weight 255 kg	Bucket cylinder (1)
Arm 2.12 m	Bore diameter85 mm
Bare arm185 kg	Rod diameter55 mm
Bucket cylinder linkage & plumbing115 kg	Stroke665 mm
Total weight300 kg	Boom Swing Cylinder
Boom swing left80°	Bore diameter95 mm
Boom swing right50°	Rod diameter55 mm
Dourn Swing Fight	Stroke640 mm
UNDERCARRIAGE	ELECTRICAL
Number of rollers	
Top, each track1	
Bottom, each track5	Alternator50 amp Batteries (1)Low-maintenance 64 Ah
Number of shoes	Batteries (1)Low-maintenance 64 Ah
Triple grouser - each side39	SERVICE CAPACITIES
Link pitch154 mm	
	Hydraulic tank
HYDRAULICS	Refill capacity50 I
Pumps (2)Variable displacement axial piston design	Total system97.3 I
Capacity	Final drive (per side)1.1 I
Maximum68 l/min	Engine
System relief pressure	w/filter change9.0 I
Standard29.4 MPa	Fuel100 l
Control valves	Radiator10.2 I
2-blade, boom swing	
4-spool section for right track travel, boom, bucket and arm	OPERATING WEIGHT
5-spool section for left track travel, boom, auxiliary, swing and arm	With 1.71 m arm, 450 mm track shoes, 210 kg bucket, 75 kg
Boom anti-drift valves	operator, full fuel and standard equipment8430 kg
Pilot control hydraulic system	
Pump (1) Gear design	
Maximum capacity21.4 l/min Relief pressure24.2 MPa	

PERFORMANCE DATA



DIMENSIONS	1.71 m	2.12 m	
A Maximum dig radius	m	7.03	7.40
B Dig radius at groundline	m	6.89	7.27
C Maximum dig depth	m	4.18	4.59
Dig depth - 2.44 m level bottom	m	3.78	4.23
E Dump height	m	4.39	4.60
F Overall reach height	m	6.39	6.60
6 Bucket rotation		177°	177°
H Vertical straight wall dig depth	m	3.08	3.55
J Minimum swing radius	m	1.79	2.09
Arm digging force	kN	38.3	34.0
Bucket digging force	kN	56.9	56.9
Dozer blade cutting edge			
Max. height	kN	0.42	0.42
Dozer blade cutting edge			
Max. depth	kN	0.21	0.21

GENERAL DIMENSIONS



DIMENSIONS		1.71 m	2.12 m
A Overall height	m	2.70	2.95
B Cab height	m	2.70	2.70
C Overall length	m	6.66	6.72
w/o attachment	m	3.51	3.51
E Width of upperstructure	m	2.23	2.23
F Track overall length	m	2.85	2.85
G Track overall width w/450 mm shoes	m	2.32	2.32
H Track shoe width	mm	450	450
J Center to center (idler to sprocket)	m	2.21	2.21
K Upperstructure ground clearance	m	0.75	0.75
L Minimum ground clearance	m	0.36	0.36
M Tail swing radius	m	1.66	1.66
Dozer blade width	m	2.32	2.32
Dozer blade height	m	0.45	0.45
Working weight*	kg	8430	8475
Ground pressure	kPa	38	38

 $^{^{\}star}$ With 460 mm track shoe, 210 kg bucket, 75 kg operator, full fuel and standard equipment.

BUCKETS

GENERAL PURPOSE

SAE capacity	m³	0.18 to 0.34
Width	m	0.457 to 0.762

DITCHING

SAE capacity m ³		0.46 to 0.54
Width	m	1.067 to 1.219

LIFTING CAPACITY

Values are expressed in kilos



1.71 m Arm, 209 kg bucket, counterweight operating in "Standard" Mode, blade down.

4.57 m			1316 *	1316 *			1362 *	1135	5.86
3.05 m			1611 *	1611 *			1430 *	980	6.60
1.52 m	4060 *	2962	2291	1588	1838 *	999	1543 *	840	6.80
O m	4151 *	2722	2926 *	1498	2042 *	953	1838 *	863	6.52
-1.52 m	5489 *	2745	3085 *	1452			2133 *	1089	5.63
-3.0 m	4491	2813							

2.12 m Arm , 191 kg bucket, counterweight operating in "Standard" Mode, blade down

4.57 m							1266 *	1022 *	6.32
3.05 m			1317 *	1317 *	1453 *	1044	1271 *	817	6.98
1.52 m	3312 *	2995	2042 *	1589	1679 *	999	1385 *	749	7.18
0 m	4446 *	2723	2768 *	1475	1974 *	954	1611 *	795	6.90
-1.52 m	5535 *	2677	3063 *	1430	2042 *	931	1974 *	954	6.12
-3.0 m	4900 *	2745	2745 *	1475					



STANDARD EQUIPMENT & OPTIONS

STANDARD EQUIPMENT

- Operator's compartment Cab with Isomount® system
- Adjustable deluxe seat with
- 76 mm seat belt

- Safety glass Air conditioning AM/FM Radio w/auto tuner
- Skylight
 Sliding front windows
- Windshield wiper w/washer
- Rear view mirrors

- Isuzu AU-4LE2X diesel
- Tier IV Stage 1 compliant
- Glow plug
- Selectable one touch accelerator/decelerator

- Batteries (2) 12-Volt
- Horn

- ISO pattern pilot controls
- Position mode selector: S
- Variable flow piston pumps
- Neutral pump destroke
- Auxiliary hydraulic valve Boom anti-drift valves
- Ultra Clean filtration system

- Shoes: 450 mm 3-bar, 39 per side
- Track length: 2.85 m Track gauge: 1.87 m Dozer blade

- Track drive 2-speed hydrostatic travel
- Disc-type parking brakes

Jpperstructur

- Swing boom: 3.50 m one pieceSwing brake

- CounterweightSingle key vandal lockup

OPTIONS

Upperstructure ■ Arm: 2.18 m

- - Uppercarriage
- Track Slides: 600 mm
- Rubber Link Track

Hydraulics

- Auxiliary hydraulics
- Single acting, one pump (includes heavy-duty bucket linkage)
 Double acting, single or dual pump (includes heavy-duty bucket linkage)
- Double acting general purpose for use with thumb kit
- Control pattern selector valve

Other

- Load holding control devices
- Cylinder mounted
- Hydraulic Coupler

Standard and optional equipment shown can vary by country.

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The call is free from a land line. Check in advance with your Mobile Operator if you will be charged.

NOTE: Standard and optional fittings can vary regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation



Conforms to directive 98/37/CE

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