CASE

HYDRAULIC EXCAVATOR
CX350

Engine Horsepower	202 kW - 271 hp
Operating weight (max.)	37 t
Bucket range	0.74 m^3 to 2.01 m^3

PROFESSIONAL PARTNER

ECONOMY AND PERFORMANCE

Electronically-controlled Tier 3A compliant engine featuring common rail diesel injection, for high performance with maximum fuel economy, resulting in improved productivity and lower emissions.
Right for your job site, right for the environment.

FASTER CYCLE TIMES

Intelligent Computer Command Control System (ICCCS) offers optimum balance of speed, power and control, while ensuring maximum fuel economy in all conditions. Boom priority and hydraulic flow regeneration system increase speed, reducing cycle times and increasing performance.
Power on command, control at all times.

REDUCED OWNERSHIP COSTS

Extended service intervals and ultra-clean 1 micron hydraulic filter result in 5,000 hour hydraulic oil changes, keeping the machine working even in the harshest operating conditions.
Maximum productivity, minimum downtime.

EASE OF OPERATION

Four engine and hydraulic operating modes allow the operator to match the machine's performance to the individual job application.
Revolutionary auto setting uses ICCCS to instantly change between modes, offering rapid response to changing site conditions. Auto power boost automatically increases power by 8-10 per cent to tackle tough ground or heavy lifting duties.
Operator control, electronic response.

DURABILITY AND BUILD QUALITY

Turntable bearing hub extends through top plate for increased strength, while swivel guard protects internal upperstructure components from damage. Full track guards protect track components and strut-type chain links reduce twisting and point loading.
Durable undercarriage, extended component life.

FASTER TRAVEL

Two speed travel with auto downshift offers traction on tough ground. Track rollers equipped with synthetic oil to reduce heat build up, increasing long term reliability.
Smooth shifting, maximum tractive effort.

LONG LIFE COMPONENTS

EMS chrome plated pins and brass bushes for maximum durability. Greasing on all boom and arm pins (except bucket) at six month/1000 hour intervals.
Reduced maintenance, peace of mind.

EXCEPTIONAL SERVICE ACCESS

Wide opening side panels and walkways to both sides of the machine enable service access to all engine and hydraulic components. A reversible hydraulic fan draws dust and debris from the cooling pack at engine start-up to reduce build-up in the radiators. On-board diagnostics constantly monitor machine status and green plug drain system eliminates ground pollution during regular maintenance.
Ease of service, reduced downtime.

OPERATOR COMFORT

Spacious cab offers excellent all round visibility and high levels of comfort. Isolation mountings reduce vibration and noise in the cab, while climate control provides the perfect working environment for the operator.
Total comfort, total productivity.

STRENGTH TO PERFORM

Heavy duty boom and dipper construction with internal baffles provides strength and durability to resist torsional loads. Choice of four boom/arm configurations, including mass excavation combination for increased productivity in high capacity applications.
The power to dig, built to last.

ENGINE

The Case CX350 is equipped with a proven Isuzu AH-6HK1X-S diesel engine, providing 271hp (202kW) of power at an unstressed 2000 rpm. With high pressure common rail fuel injection, this electronically-controlled motor easily meets the requirements of the EU directive 97/68/EC Tier 3A on engine emissions.
Electronic engine control, in combination with the Case hydraulic Intelligent Computer Command Control System (ICCCS) optimises the fuel injection to meet the load on the engine and hydraulic cylinders. This results in a high level of responsiveness for the operator and more efficient use of fuel, reducing consumption and emissions.
The engine incorporates an automatic warm-up system, which increases engine speed gradually as the correct operating temperatures are reached, preventing premature wear of engine components.

HYDRAULIC SYSTEM

Case excavators are among the toughest on the market, yet they retain the power and speed to perform. Using an Intelligent Computer Command Control System (ICCCS), the CX350 provides the optimum balance of speed, power and fuel efficiency whatever the job.
Boom priority permits faster cycle times in loading operations as the hydraulic oil is prioritised to the main boom circuit during the raise function. The energy created by oil returning from the boom and the dipper arm is regenerated to increase the excavating speed.
In addition there is an auto power boost function which automatically increases the system pressure by 8-10 per cent to power through heavy ground, or to help with heavy lifting duties.
The CX350 features an ultra-clean 1 micron hydraulic filter, which provides an exceptional level of filtration, even removing water from the oil. This results in extended hydraulic oil life, with change intervals now set at 5000 hours, reducing downtime and cutting soperating costs.

OPERATING MODES

The CX350 enables the operator to have a choice on how the machine is operated. Simply choose the work mode that matches the machine output to the job application.
Four operating modes are available.

H Mode (Heavy)
For heavy excavation or whenever you need extra power.
S Mode (Standard)
For standard digging and loading operations reducing fuel consumption.
L Mode (Light)
For lifting and other operations that need fingertip accuracy.
Auto-Mode
The most revolutionary approach to maximizing power & fuel efficiency available today. Just select the Auto-Mode with the switch panel. Using actual working pressure readings, ICCCS instantly changes modes assuring the best combination of speed and power while you can stay focused on the work at hand.

OPERATOR'S CAB

The CX350's cab offers high levels of comfort, low levels of noise and a climate-controlled working environment. The entire cab is mounted on six shock absorbing rubber and fluid mounts, reducing vibration and noise in the cab for the operator.

A fully adjustable suspension seat is standard equipment, offering height, reach and rake options to ensure that all sizes of operator can find their ideal working position. Automatic climate control maintains the desired temperature in the cab whatever the weather outside.

The cab is a full 1 metre wide, with plenty of room for the operator to store coats and bags out of the working area. Large windscreens and side glazing, along with low bodywork to the rear of the machine, provide excellent all round visibility from the cab. Rear view safety mirrors are also included in the standard specification.

UNDERCARRIAGE/TRANSMISSION

Case has a long tradition of building strong, durable excavators and the CX350 is no exception. A modified X-style carbody is welded internally for added strength, and the turntable bearing hub extends down through the top plate of the carbody for additional structural integrity.
The machine has standard two speed travel motors, with a top speed of 5.5 km/h, making it easy to reposition on site.
The motors will downshift automatically when the going gets tough, and compact high torque final drives ensure traction on the steepest grades and in the deepest mud.

MAINTENANCE/ACCESSIBILITY

There are large, wide opening doors to both sides of the machine, making it easy for technicians to access the engine and hydraulic componentry.
The CX350 is equipped with a hydraulically-driven cooling fan, which can be reversed on start-up to blow dust and debris away from the excavator's cooling pack.
The machine benefits from a 580 litre fuel tank, to maximise working time. An auto-stop electric fuel pump is fitted as standard to the machine, to reduce refuelling times and make life easier for the operator.

IMPROVED PIN AND BUSHING LIFE

EMS chrome plated pins with brass bushing

All boom pins (except the bucket pins) are extended maintenance system (EMS) chrome plated for increased hardness, with lubricated brass bushings fitted through the boom and dipper. Dust seals are double structured to prevent the ingress of dirt and dust on site.
This combination makes it possible to extend lubrication intervals on the boom pins to six months/1000 hours of operation, cutting downtime and ensuring that the machine keeps working longer.

SPECIFICATIONS

ENGINE

Latest generation engine, meeting European requirements for "low exhaust emissions" Tier 3A, in accordance wihit directive 97/68/EC.

Make ISUZU
Type AH-6HK1X-S
Common rail, turbo, intercooler, fuel cooler Yes
Direct injection electronically controlled
No. of cylinders 6
Bore - Stroke 115 x 125 mm
Cubic capacity 7790 cm^3
EEC 80/1269 horsepower 202 kW - 271 hp
Engine speed 2000 rpm

HYDRAULIC SYSTEM

Linked to the engine power management electronic system, a second electronic system manages all the hydraulic parameters so as to obtain the highest possible available hydraulic power, under optimum conditions of efficiency and economy. The system consists of two axial piston, variable flow pumps.

Max output 2 x 284 l/min
Max safety valve pressure
Attachment/**Power Boost** 343/**373** bar
Upperstructure swing 294 bar
Travel 343 bar
Oil filtration (Ultra Clean) 1 micron

SWING

Axial piston, fixed flow motor
Max upperstructure swing speed 9.6 rpm

TRAVEL

The travel circuit is equipped with two axial piston, variable flow motors.
Planetary reduction gear, automatic multi-disc brake.

Max travel speed 5.5 kph
Low travel speed 3.2 kph
Speed change is controlled from the instrument panel.
Gradeability 70% (35°)

ELECTRICAL SYSTEM

Circuit 24 volts
Batteries 2 x 12 v - 128 A/h
Circuit equipped with water-proof connectors
Alternator 24 v - 50 A/h

UNDERCARRIAGE

Upper rollers 2
Lower rollers 8
Number of track pads 48
Type of shoes Triple grouser
Standard track pad width 600 mm
Chain guides Front and central (2)

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank 580 l
Hydraulic reservoir 175 l
Hydraulic system 350 l
Travel reduction gear (per side) 11 l
Swing reduction gear 6 l
Engine (including filter change) 36 l
Engine cooling system 30 l

ATTACHMENTS/BUCKETS

CX350 customers can choose from a variety of main booms and dipper arms to suit different applications, all of which are constructed of heavy duty steel box section with internal baffles to increase torsional rigidity. Deep groove welding ensures that the booms and arms can withstand the stress of high breakout forces, heavy lifting and attachments such as hydraulic breakers, compactors, demolition shears and crushers.
With a choice of two main booms and four dipper sticks, along with a range of buckets from 0.74 m^3 - 2.01 m^3, there is a configuration to meet the requirements of every customer's job site.

GENERAL PURPOSE

SAE capacity	l	740	940	1150	1360	1580	1800	2010
Width	mm	750	900	1050	1200	1350	1500	1650
Weight	kg	770	820	910	1000	1150	1230	1330

HEAVY DUTY

SAE capacity	l	740	940	1150	1360	1580	1800	2010
Width	mm	750	900	1050	1200	1350	1500	1650
Weight	kg	864	938	1096	1243	1350	1429	1537

EXTRA HEAVY DUTY

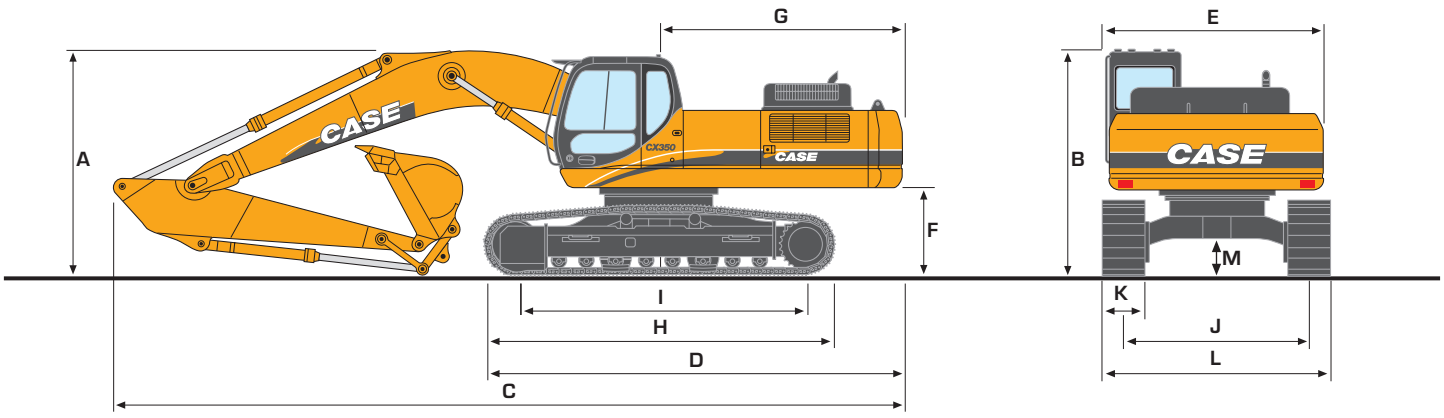
SAE capacity	l	1360
Width	mm	1200

QUARRY

SAE capacity	l	2010
Width	mm	1650
Weight	kg	1660

For other bucket sizes, please contact your CASE dealer

GENERAL DIMENSIONS



			LC	NLC
A Overall height	Dipper 2.20 m	m	3.60	3.57
	Dipper 2.60 m	m	3.53	3.53
	Dipper 3.25 m	m	3.29	3.29
B Cab height		m	3.13	3.13
C Overall length	Dipper 2.20 m	m	11.25	11.25
	Dipper 2.60 m	m	11.13	11.13
	Dipper 3.25 m	m	11.05	11.05
D Overall length (wo/attachment)		m	5.91	5.91
E Width of upperstructure		m	3.04	3.04
F Upperstructure ground clearance		m	1.21	1.21
G Swing (rear end) radius		m	3.45	3.45
H Track overall length		m	4.98	4.98
I Centre/centre (idler to sprocket)		m	4.04	4.04
J Track gauge		m	2.60	2.39
K Track shoes width (std)		mm	600	600
L Track overall width	- Shoes 600 mm	m	3.20	2.99
	- Shoes 700 mm	m	3.30	3.09
	- Shoes 800 mm	m	3.40	3.19
M Ground clearance		m	0.48	0.48

WEIGHT AND GROUND PRESSURE

STANDARD CONFIGURATION 6.45 m BOOM

CX 350 LC

With operator, full fuel tank, lubricant, coolant, bucket*

	600 mm		700 mm		800 mm	
	WEIGHT (kg)	GROUND PRESSURE (bar)	WEIGHT (kg)	GROUND PRESSURE (bar)	WEIGHT (kg)	GROUND PRESSURE (bar)
Dipper 2.20 m	36126	0.68	36437	0.59	36748	0.52
Dipper 2.65 m	36168	0.68	36479	0.59	36790	0.52
Dipper 3.25 m	36231	0.68	36542	0.59	36853	0.52

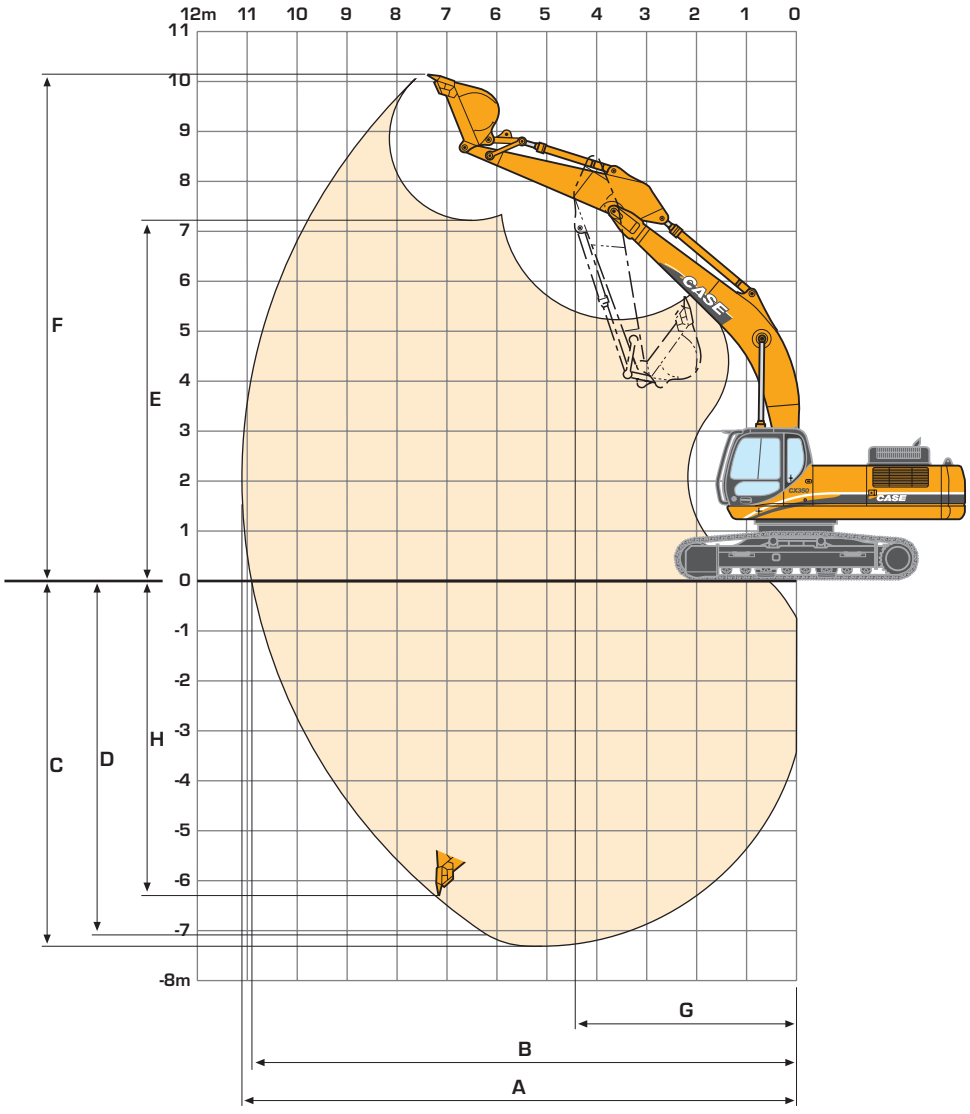
CX 350 NLC

Dipper 2.20 m	35926	0.68	36237	0.59	36548	0.52
Dipper 2.65 m	35968	0.68	36279	0.59	36590	0.52
Dipper 3.25 m	36031	0.68	36342	0.59	36653	0.52

*Bucket weight: 1170 kg

CX350

PERFORMANCE DATA
WITH 6.45 m MONOBLOC BOOM



DIPPER LENGTH			2.20 m	2.60 m	3.25 m
A	Maximum digging reach	m	10.20	10.67	11.17
B	Maximum digging reach at ground level	m	9.99	10.47	10.98
C	Maximum digging depth	m	6.30	6.73	7.34
D	Digging depth - 2.44 m level bottom	m	6.10	6.55	7.19
E	Max dump height	m	6.77	7.14	7.23
F	Overall reach height	m	9.85	10.32	10.37
G	Minimum swing radius - attachment	m	4.66	4.63	4.50
H	Vertical straight wall dig depth	m	5.08	5.97	6.35
	Digging force (w/o Power Boost)	daN	22700	19500	16400
	Breakout force (w/o Power Boost)	daN	22880	22880	22880
	Digging force with Power Boost	daN	24600	21100	17800
	Breakout force with Power Boost	daN	24840	24840	24840

LIFTING CAPACITY

CX350 LC WITH 6.45 m MONOBLOC BOOM

Values are expressed in kilos

Front / 360°	REACH												
	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At max reach		m

With 2.20 m dipper, 600 mm shoes and bucket

7.5 m											8500*	8500*	6.3
6.0 m					9100*	9100*	8300*	6400			8300*	6150	7.7
4.5 m			13250*	13250*	10250*	8950	8750*	6150			8300*	5150	8.3
3.0 m			16200*	12650	11600*	8250	9400*	5800			7600	4600	8.6
1.5 m			17900*	11650	12700*	7700	9200	5500			7400	4400	8.6
0 m			18000*	11400	12750	7350	9000	5300			7600	4500	8.4
-1.5 m	18500*	18500*	17000*	11400	12650	7300	8900	5250			8350	4950	7.8
-3.0 m	19400*	19400*	15100*	11650	11550*	7400					9600*	6000	7.0
-4.5 m			11550*	11550*							9400*	8850	5.5
-6.0 m													

With 2.60 m dipper, 600 mm shoes and bucket

7.5 m											7750*	7750*	6.9
6.0 m							7800*	6450			6400*	5300	8.3
4.5 m					9650*	9050	8350*	6200			6550*	4550	8.9
3.0 m			15350*	13000	11100*	8350	9050*	5850	7000	4250	6850	4100	9.1
1.5 m			17500*	11900	12350*	7750	9200	5500	6850	4050	6650	3950	9.2
0 m			18100*	11450	12750	7400	8950	5250			6800	4000	9.0
-1.5 m	15700*	15700*	17500*	11350	12600	7250	8850	5150			7350	4350	8.5
-3.0 m	21400*	21400*	15850*	11500	11950*	7300	8950	5250			8700*	5100	7.6
-4.5 m	16750*	16750*	12800*	11950	9500*	7600					8700*	7000	6.4
-6.0 m													

With 3.25 m dipper, 600 mm shoes and bucket

7.5 m							6050*	6050*			5700*	5700*	7.6
6.0 m							7000*	6500			4250*	4250*	8.8
4.5 m					8700*	8700*	7600*	6200	6250*	4350	4350*	4000	9.4
3.0 m	13400*	13400*	13900*	13450	10250*	8500	8400*	5800	6590	4150	4600*	3650	9.6
1.5 m	6900*	6900*	16550*	12100	11700*	7800	9150	5450	6750	3950	5050*	3450	9.7
0 m	10300*	10300*	17750*	11400	12650*	7350	8850	5150	6600	3800	5850*	3500	9.4
-1.5 m	15150*	15150*	17700*	11200	12450	7100	8650	5001			6550	3750	9.0
-3.0 m	21150*	21150*	16600*	11250	12300*	7050	8650	5000			7550	4350	8.2
-4.5 m	19500*	19500*	14200*	11550	10600*	7250					8400*	5700	7.1
-6.0 m			9600*	9600*							8000*	8000*	5.2

- Machine in «LIGHT» mode
- Lift capacities are taken in accordance with SAE J 1097 / ISO 10567 / DIN 15019-2
- Lift capacities shown in kg do not exceed 75% of the tipping load or 87% of the hydraulic lift capacity
- Capacities that are marked with an asterisk are hydraulic limited

LIFTING CAPACITY

CX350 NLC WITH 6.45 m MONOBLOC BOOM

Values are expressed in kilos

Front / 360°	REACH												
	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At max reach		m

With 2.20 m dipper, 600 mm shoes and bucket

7.5 m											8511*	8241	6.3
6.0 m					9116*	8774	8323*	5856			8277*	5609	7.7
4.5 m			13249*	12943	10252*	8185	8764	5610			8315	4673	8.3
3.0 m			16218*	11393	11608*	7507	9412*	5280			7608	4181	8.6
1.5 m			17918*	10454	12693*	6954	9185	4978			7370	3981	8.6
0 m			17988*	10171	12729	6639	8961	4780			7566	4045	8.4
-1.5 m	18505*	18505*	17040*	10200	12630	6555	8906	4731			8325	4437	7.9
-3.0 m	19420*	19420*	15099*	10442	11550*	6686					9598*	5407	7.0
-4.5 m			11545*	10958							9389	7986	5.5
-6.0 m													

With 2.60 m dipper, 600 mm shoes and bucket

7.5 m											7764*	7185	6.9
6.0 m							7800*	5927			6399*	4849	8.3
4.5 m					9673*	8303	8328*	5654			6542*	4109	8.9
3.0 m			15346*	11756	11120*	7614	9055*	5305	7006	3817	6824	3707	9.1
1.5 m			17499*	10666	12363*	7020	9190	4977	6830	3658	6627	3540	9.2
0 m			18077*	10216	12746	6646	8926	4744			6777	3586	9.0
-1.5 m	15717*	15717*	17479*	10144	12575	6501	8616	4646			7358	3890	8.56
-3.0 m	21400*	21400*	15857*	10308	11974*	6562	8909	4728			8678	4614	7.6
-4.5 m	16767*	16767*	12813*	10717	9511*	6875					8680*	6320	6.4
-6.0 m													

With 3.25 m dipper, 600 mm shoes and bucket

7.5 m											5712	5712	7.6
6.0 m							6986*	5973			4227*	4227*	8.8
4.5 m					8706*	8431	7599*	5670	6256*	3949	4329*	3622	9.4
3.0 m	13416*	13416*	13886*	12172	10253*	7713	8416*	5291	6957	3758	4598*	3264	9.6
1.5 m	6878*	6878*	16530*	10885	11691*	7051	9149	4923	6737	3558	5070*	3103	9.7
0 m	10287*	10287*	17765*	10202	12630*	6587	8827	4638	6566	3403	5839*	3120	9.4
-1.5 m	15154*	15154*	17712*	9972	12430	6354	8648	4479			6511	3347	9.0
-3.0 m	21148*	20633	16581*	10025	12298*	6329	8641	4473			7509	3893	8.2
-4.5 m	19524*	19524*	14191*	10318	10578	6518					8409*	5107	7.1
-6.0 m			9607*	9607*							8019*	8019*	5.2

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CX350

STANDARD EQUIPMENT & OPTIONS

STANDARD EQUIPMENT

Hydraulic control
- 4 working modes (3 manual + 1 auto)
- 2 travel speeds with automatic speed change
- Swing brake control
- Load-holding valves on boom and dipper
- Power control - automatic powerboost
- Hydraulic control lever locking, lever position adjustment
- Auxiliary circuit control valve section
- High performance "Ultra Clean" filtration system (1 μ)

Engine control
- Engine to Tier 3 standard
- Calculator on injection pump
- Automatic / manual engine return to idle
- Fuel level check
- Emergency stop
- Automatic engine pre-heating

System Monitor, with 14 language display
- Messages (Function, safety, etc.)
- Working modes (H-S-L and Auto)
- Operating modes (travel mode, swing locking, etc.)
- Audible warning device
- Digital clock
- Water temperature
- Hydraulic oil temperature
- Diagnostic system

Electrical system
- Leak-proof connectors
- Double horn

Lighting
- 1 working light on the fuel tank
- 1 working lights on the boom
- 1 working lights on the cab

Operator environment
- Modern cab, 1 meter wide
- Safety glass
- Suspended cab (6 mounting points with rubber/fluid shock absorbing mountings)
- Windscreen with lockable opening
- "LCD" display
- Water and dust-proof membrane type controls
- Windscreen washer and wiper
- Adjustable heater
- Floor mat
- Sun visor
- Rear-view mirror and safety mirrors
- Self adjusting air conditioning
- Anti-theft device

Operator seat
- Air suspension
- Height and tilt adjustment
- Adjustable heat-rest
- Adjustable seat-back angle
- Adjustable arm-rests
- Reel-type safety belt

Equipment
- EMS (Extended Maintenance System) chrome pins with brush bushing throughout entire attachment except bucket
- Track guide (over full chassis length)
- Upper and lower undercovers
- LC undercarriage
- Sealed and lubricated track

OPTIONS

- Auxiliary hydraulic circuit
  Possible options and combinations:
  - Hammer circuit with pedal control
  - 2nd auxiliary circuit for clamshell rotation, etc.
  - Dual-acting circuit (shears type)
  - Multi-purpose circuit (hammer or shears)
  - Multi-purpose circuit + 2nd circuit
- MULTI-FIT quick coupler

Standard and optional equipment shown can vary by country.

Worldwide Case Construction Equipment Contact Information

EUROPE/AFRICA/MIDDLE EAST:
Centre D'affaires EGB
5, Avenue Georges Bataille - BP 40401
60671 Le Plessis-belleville - FRANCE

NORTH AMERICA/MEXICO:
700 State Street
Racine, WI 53404 U.S.A.

LATIN AMERICA:
Av. General David Sarnoff 2237
32210 - 900 Contagem - MG
Belo Horizonte BRAZIL

ASIA PACIFIC:
Unit 1 - 1 Foundation Place - Prospect
New South Wales - 2148 AUSTRALIA

CHINA:
No. 29, Industrial Premises, No. 376.
De Bao Road, Waigaoqiao Ftz, Pudong,
SHANGHAI, 200131, P.R.C.

NOTE: Standard and optional fittings can vary according to the demands and specific 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 relating to such changes.

CE
Conforms to directive 98/37/CE

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CASE

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