

E215c



E215c LC

ENGINE POWER	117 kw - 159 hp
MAX. OPERATING WEIGHT	22220 kg
BUCKET CAPACITY	0.94 m ³ - 1.1 m ³



BUILT AROUND YOU

MAIN REASONS TO CHOOSE NEW HOLLAND

FUEL EFFICIENT FPT ENGINE

6-cylinders, electronic fuel injection guarantees highly fuel efficient performances with very high power reserve.

NEW DESIGN CAB

Newly designed spacious cab provides comfortable and safe environment with exceptionally full round visibility and low noise and vibration.



LAND EXCAVATOR

BUILT-IN SERVICEABILITY & RELIABILITY

Heavy duty structures and attachments improve durability of machines. High quality components, ground level servicing and increased service intervals to reduce cost of ownership.

HIGHER PRODUCTIVITY & BETTER CONTROLABILITY

Faster cycle times, best energy saving performance and smooth control result in higher productivity & comfortable long- hours operations.

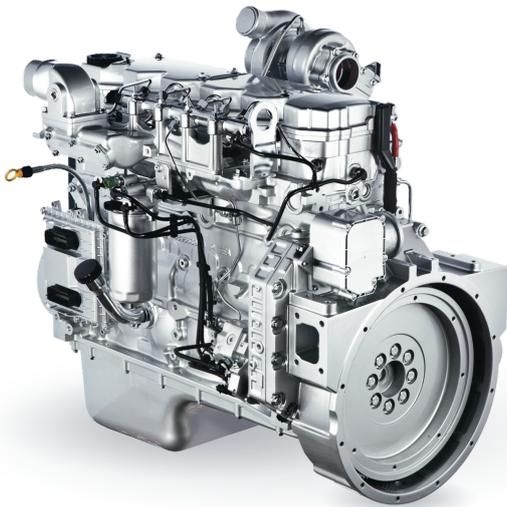


EASE, EFFICIENCY AND HIGH PRODUCTIVITY



A PERFECT COMBINATION OF SPEED, EFFICIENCY & CONTROL

High efficiency hydraulics supply high flow at low RPM maximizing fuel efficiency and optimise the performance of machine. The hydraulic system is governed by a Machine Control Unit which collects input from pressure sensors located on pumps, main valve and pilot lines. The Machine Control Unit contentiously dialogue with the Engine Control Unit in order to optimize machine output at any moment in any condition. Two variable displacement axial piston pumps with regulating system are combined with the New Holland main valve, designed in Japan for fine, precise and efficient operations. Hydraulic system electronically governed delivers impressive machine control with unrivalled energy and fuel savings in all cycle time phases.



PERFECT MATCH BETWEEN ENGINE AND HYDRAULICS

The E215C model is powered by 6-cylinders fuel efficient FPT (Fiat Power Train) Engine delivers outstanding power & torque, designed to boost machine performances and optimize fuel economy.

The new improved hydraulic system minimises friction losses and pressure drops while the intelligent management system ensures optimal pump utilisation and reduced engine RPM. Advanced energy management system reduces the pump displacement in case of overload and continuously adjust oil flow to avoid over loading of engine and pumps.

DYNAMIC STABILITY & HIGH RELIABILITY

The E215C offers robust machine with heavy duty boom, arm and upper structure which has been reinforced in all areas with higher stress to increase the durability. The bucket linkage has a fortified structure and reduced tolerances for increased component life, minimizing downtime. The anti-friction resin shims in the boom foot and head reduce noise and free play, increasing durability and reliability for the customer.

The heavy duty design is a perfect match with the machine's powerful performance. The long carriage undercarriage provides exceptional dynamic stability ensuring a safe and productive performance on all terrains. The new undercarriage structure is made heavy duty with thicker plate for travel motor frame, reinforced idler guard, large pin diameter. The 'sloped' lower frame design reduces the time needed to clean the undercarriage.



COMFORT, CUSTOMIZATION AND EXCELLENT SERVICEABILITY



EXCELLENT VISIBILITY, VERSATILITY & SMOOTH OPERATION

Ergonomically designed seat with well positioned joystick enhances operator comfort and hence productivity. Wide & roomy cab with openable roof window to give better visibility to operator. Advanced engine throttle control that determines working mode selection.

Air-conditioned cabin with longer seat slides, a fully reclining seat and foot space ensure that any operator can stay comfortable throughout the working day. Radio's slot, speakers and antenna as standard for an easy radio add on.

Operators can store up to 10 auxiliary hydraulic flow and pressure settings to easily switch among different attachments with no need of any mechanical adjustment.

3-power modes to match any customer need:

A AUTO: for normal digging, grading, lifting and precision work. Power boost always engaged.

H HEAVY: for heavy operations always granting the best balance between productivity and fuel economy. Power boost automatically engaged.

SP SUPER POWER: extra speed and power for the most demanding jobs that require maximum productivity. Power boost automatically engaged.



FAST CYCLES

The advanced hydraulic system offers higher breakout forces, improved swing speeds and greater swing torque, resulting in **faster cycle times and increase in productivity.**

Power boost function is automatically engaged. The electronic management of speed and power lowers fuel consumption and offers considerable productivity benefits in terms of outputs.

BETTER SERVICEABILITY

All filters and regular check points are grouped and easily accessible from the ground. Easy access and centralised lubrication points. Battery disconnect switch accessible from ground while servicing the machine.

E215C LC

SPECIFICATIONS

ENGINE

Model FPT F4HE0687A*J105
 Type Water-cooled, 4-cycle diesel,
 6-cylinders in line, electronically controlled, high pressure common
 rail system, turbocharger, air cooled intercooler
 Emission certified Tier 3
 Displacement 6.727 L
 Bore/Stroke 104 x 132 mm
 Horsepower ISO 14396 GROSS 117 kW (157 hp) at 1800 min-1
 Maximum torque ISO 14396 GROSS 622 Nm at 1800 min-1

HYDRAULIC SYSTEM

Type 2 variable displacement axial piston pumps
 with regulating system
 Max. oil flow 2 x 211 l/min at 1800 min-1
 Working circuit pressure
 Boom/Arm/Bucket circuit 34.3 MPa
 Boom/Arm/Bucket circuit (with auto power up) 36.8 MPa
 Swing circuit 29.4 MPa
 Travel circuit 34.3 Mpa

SWING

Maximum swing speed 11.5 min-1
 Swing torque 64,400 N-m

FILTERS

Suction filter 105 µm
 Return filter 6 µm
 Pilot line filter 8 µm

TRAVEL

Travel motor Variable displacement axial piston motor
 Max. travel speed 5.6 km/h
 Low travel speed 3.4 km/h
 Gradeability 70% (35°)
 Drawbar pull 205 kN

ELECTRICAL SYSTEM

Circuit 24V
 Alternator 70 Amp
 Starter motor 4.0 kW
 Battery 2 x 12V 110Ah

UNDERCARRIAGE

Number of carriers rollers (each side) 2
 Number of track rollers (each side) (E215C LC) 8
 Number of shoes (each side) (E215C LC) 49
 Type of shoe Triple grouser shoe

CAPACITIES

Fuel tank (l) 410 lt
 Hydraulic system (l) 295
 Cooling system (l) 25
 Engine Crank Case (l) 16.5

WEIGHT AND GROUND PRESSURE

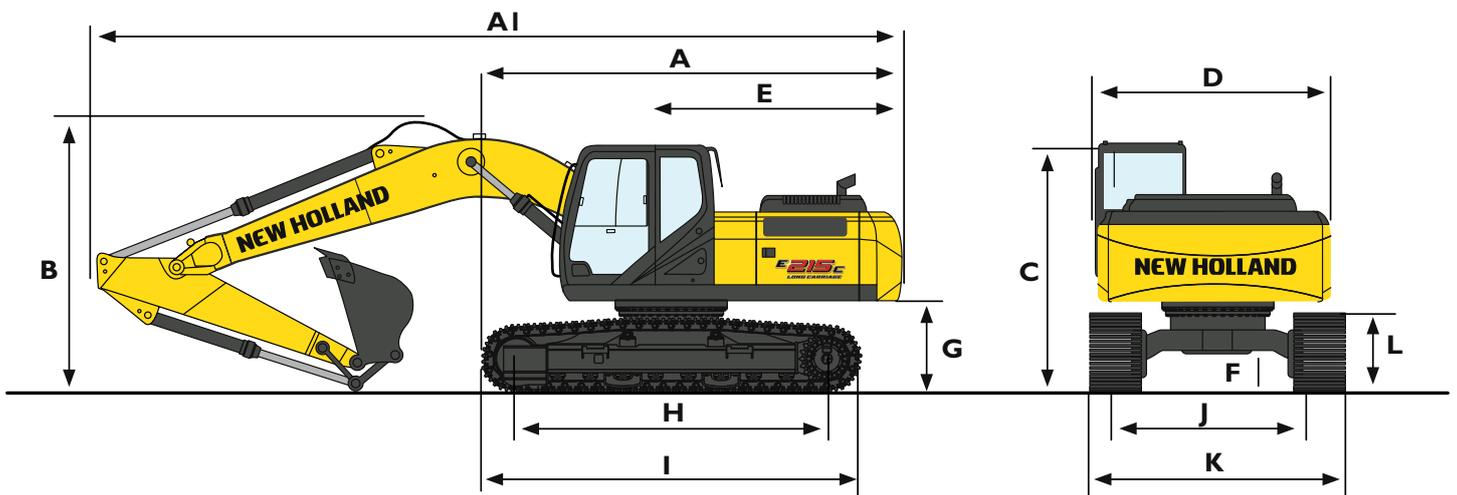
LC 2.4 m arm, 1.1 Cu Mt Bucket, 600mm triple grouser shoe, operator, lubricant, coolant and full fuel tank.

	E215C LC
Operating Mass	22,220 Kg
Ground Pressure	0.046 MPa

BUCKET SELECTION GUIDE

Part Number	Bucket Cap (CuM)	Type	Application	Material Handled	(Density upto in T/CuM) - eg		E215C LC		
							1.90m Arm	2.40m Arm	2.94m Arm
481256008	1.00	GP	General	Earthwork	A	1.80	A	A	B
461852008	1.10	GP	Light Duty	Dry, Loose soil	B	1.60	B	C	C
488214008	0.90	HD ROCK	Heavy Duty	Granite/Marble	C	1.40	A	A	B
488228008	0.94	HD	Heavy Duty	Stone/Rubble	X	N/A	A	A	B

GENERAL DIMENSIONS

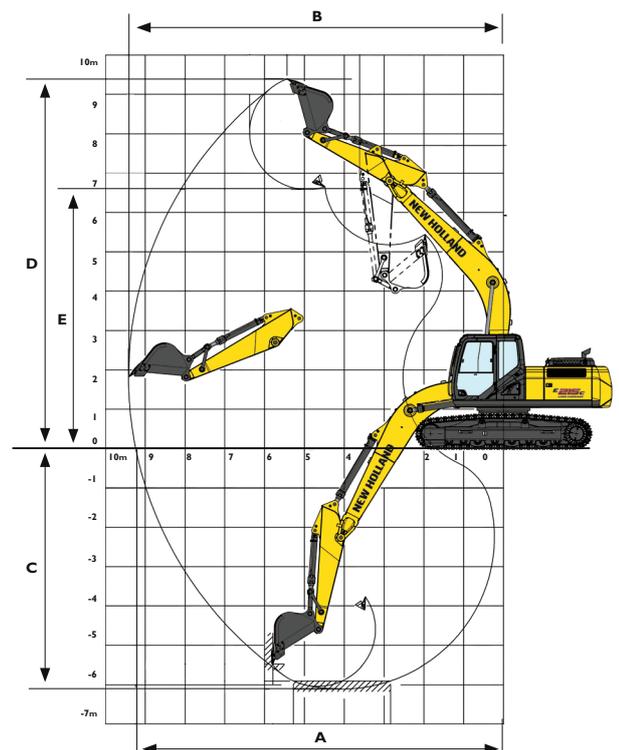


GENERAL DIMENSIONS

		E215C LC			
		2.94m Arm	2.40m Arm	1.90m Arm	
A	Overall length (without attachment)	mm	4985	4985	4985
AI	Overall length (with attachment)	mm	9430	9510	9520
B	Overall height (with attachment)	mm	2980	3198	3008
C	Cab height	mm	2950	2950	2950
D	Upper structure overall width	mm	2770	2770	2770
E	Swing (rear end radius)	mm	2780	2780	2780
F	Minimum ground clearance	mm	440	440	440
G	Clearance height under upper structure	mm	1040	1040	1040
H	Wheel base (Center to center of wheels)	mm	3660	3660	3660
I	Crawler overall length	mm	4470	4470	4470
L	Crawler tracks height	mm	920	920	920
J	Track gauge	mm	2390	2390	2390
K	Undercarriage overall width (with 600 mm shoes)	mm	2990	2990	2990

PERFORMANCE DATA

		E215C LC			
		2.94m Arm	2.40m Arm	1.90m Arm	
Boom length	mm	5700	5700	5700	
Bucket radius	mm	1450	1450	1450	
Bucket wrist action	°	177	177	177	
A	Maximum reach at GRP	mm	9730	9240	8770
B	Maximum reach	mm	9870	9380	8910
C	Max. digging depth	mm	6650	6110	5610
D	Max. digging height	mm	9610	9410	9140
E	Max. dumping height	mm	6810	6590	6330
	Arm digging force with auto power up	kN	110	132	152
	Bucket digging force with auto power up	kN	152	152	152



REACH									
Front	4.5 m		6.0 m		7.5 m		At max reach		
360°									m

E215C LC, ARM 2.4 M, BUCKET WEIGHT 868 KG, SHOES 600 MM

7.5 m							4820*	4820*	5,6
6.0 m			4650*	4530			4640*	3520	6,8
4.5 m	6200*	6200*	5130*	4410	4580*	2830	4570*	2830	7,5
3.0 m	7950*	6710	5920*	4190	4700	2780	4280	2500	7,9
1,5 m	9410*	6200	6680*	3960	4600	2690	4140	2400	8,0
0 m	10020*	5970	6560	3810	4530	2630	4290	2480	7,8
-1,5 m	9860*	5950	6510	3770			4810	2800	7,2
-3.0 m	8900*	6090	6330*	3860			5770*	3570	6,3
-4.5 m	6280*	6280*					5650*	5650*	4,8

E215C LC, ARM 2.9 M, BUCKET WEIGHT 868 KG, SHOES 600 MM

7.5 m			3980*	3980*			3080*	3080*	6,2
6.0 m			4060*	4060*			2840*	2840*	7,3
4.5 m			4600*	4450	4240*	2860	2820*	2450	8,0
3.0 m	7170*	6810	5430*	4200	4610*	2760	2930*	2180	8,4
1,5 m	8810*	6230	6290*	3930	4560	2640	3200*	2080	8,5
0 m	9730*	5900	6490	3730	4460	2550	3670*	2130	8,3
-1,5 m	9860*	5800	6400	3650	4430	2520	4190	2380	7,8
-3.0 m	9230*	5880	6440	3690			5120	2950	6,9
-4.5 m	7430*	6140					5470*	4410	5,6

E215C LC, ARM 2.9 M, BUCKET WEIGHT 868 KG, SHOES 800 MM

7.5 m			3980*	3980*			3080*	3080*	6,2
6.0 m			4060*	4060*			2840*	2840*	7,3
4.5 m			4600*	4550	4240*	2940	2820*	2530	8,0
3.0 m	7170*	6970	5430*	4300	4610*	2850	2930*	2250	8,4
1,5 m	8810*	6390	6290*	4030	4700	2730	3200*	2150	8,5
0 m	9730*	6050	6670	3840	4590	2630	3670*	2210	8,3
-1,5 m	9860*	5960	6570	3760	4590	2600	4320	2640	7,8
-3.0 m	9230*	6040	6620	3800			5270	3040	6,9
-4.5 m	7430*	6300					5470*	4530	5,6

STANDARD EQUIPMENT

ENGINE

Tropical package for temperatures -15°C +50°C
 Turbocharger with air-cooled intercooler
 Double element air cleaner
 Air-pre cleaner - cup type
 Pre-fuel filter
 Fuel filter w/ water separator
 Automatic/manual engine return to idle
 Neutral safety start
 Emergency stop
 Dial type throttle control

HYDRAULIC SYSTEM

2 variable flow piston pumps
 Auto/Heavy/Super Power working modes
 Auto power boost
 Swing priority (swing+arm)
 Travel speed change
 Selectable working modes
 Pre-set auxiliary pump settings

ISO pattern controls

Arm and boom regeneration
 Straight travel valve
 100% return oil filtration

CAB AND OPERATOR COMPARTMENT

Pre-disposal for the optional cab protection
 Pressurized cab heat and defrost functions
 Tilting consoles - 4-position
 Low-effort controls
 Sliding cockpit
 Mechanical suspended seat
 Arm rest
 Sun shade
 Color LCD monitor display
 Auxiliary select system
 Aux-in port for personal electronics (12v)
 Rubberfloor mat
 One-piece right hand window
 Two-piece door window

Roof top openable metal window

Windshield wiper / washer
 Storage compartments
 On-board diagnostic system
 Standard handrails
 Sliding front window – storable lower windshield
 Rh front console w/ clock and cell phone holder
 Rear mirror (mounted on cab)

EQUIPMENT AND UNDERCARRIAGE

5,70 meter boom
 Two lights on cabin top
 One light on tool box
 HD Bucket linkage
 Tool box
 Sealed and lubricated tracks
 Single track guide
 600mm triple grouser steel shoes
 Rear mirror (mounted on tool box)

OPTIONAL EQUIPMENT

CAB AND OPERATOR COMPARTMENT

Cabin Fan
 HVAC with Auto Climate Control function
 High band AM/FM Radio
 Super Tropical package for temperatures -15°C +55°C

EQUIPMENT AND UNDERCARRIAGE

Arm 1.90m
 Arm 2.40m
 Arm 2.94m
 Bucket linkage
 Bucket 0.9 Cum HD
 Bucket 1.0 Cum GP
 Bucket 1.1 Cum GP
 800mm triple grouser steel shoes

Triple track guide
 Auxiliary single acting circuit
 Auxiliary single or High flow circuit
 Refuel pump
 Upper front screen (mesh type)
 Air-pre cleaner - cyclone type
 Side cutter for GP bucket
 Boom mounted work light and
 One light on Boom foot
 Lower under cover

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CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED

Level-4, Rectangle-I, D-4, District Center, Commercial Complex, Saket, New Delhi – 110017

Contact No.: 011-66544151 | Email: caseindia@cnhind.com