E210/E210 LC
21 500/22 200-kg Operating Weight
World-class manufacturing, one-of-a-kind performance.

Built with state-of-the-art tools and techniques by a quality-conscious workforce in a world-class John Deere manufacturing facility, the E210 and E210 LC Excavators are your best choice. Their highly efficient engine/hydraulic-management system delivers dependable power and unsurpassed fuel economy, so you can get work done with less fuel. Other advantages include an intuitive multifunction LCD monitor with easy-to-read onboard diagnostic display. Ultra-reliable solid-state electronics. Plus simplified daily and periodic maintenance. The E210 and E210 LC deliver the productivity, uptime, and low daily operating costs you’re seeking. And exactly what you should expect from a highly respected 178-year-old North American equipment manufacturer like John Deere.

Specifications E210/E210LC

Net rated power 117 kW

Operating weight 21 500–22 200 kg w/ 600-mm triple-grouser shoes

Maximum digging depth 6522–6690 mm

Arm digging force 110.5 kN

Bucket digging force 153.1 kN
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### Specifications

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<tbody>
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Daylong reliability, long-term durability.

The E210 and E210 LC utilize many of the same job-proven uptime-increasing advantages found in our other highly reliable John Deere earthmoving machines. Such as an SSM that virtually never wears out. Optimized boom and arm structures with internally welded bulkheads for maximum strength. Heavy-duty cooling system. And wet-sleeve engine-cylinder liners for maximum service life. The difference is in the details — and when you know how they’re built, you’ll choose an E210 or E210 LC.
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1. Heavy-duty cooling system keeps the engine and hydraulic system running efficiently, even in tough environments or at high altitudes.

2. Sealed and lubricated undercarriage and heavy-duty X-frame provide a solid, stable platform, for lower-frame optimization. Increased track-frame slope on the SC helps resist material buildup and simplify cleanout.

3. Durability details are everywhere. Rigid side shields and sheet metal resist dents. Steel ribs help protect the arm when curling the bucket, and steel collars guard otherwise vulnerable grease points.

Optimized digging structures utilize three welded bulkheads within the boom to resist torsional stress and provide long-term durability.

Standard carriage (SC) option enables reduced track length and narrower overall machine width, for increased maneuverability on tighter jobsites.
The perfect combination of stability, agility, and ability.

Not too big or too small, the E210 and E210 LC are the right choices for a wide variety of jobsites. Delivering quick work cycles and solid stability, they’re perfect for demolishing structures, loading trucks, and excavating footings — plus a whole lot more. Four power modes and three work modes easily adapt to changing demands and applications. Their highly efficient engine/hydraulic-management system perfectly balances engine performance and hydraulic flow for consistent operation, regardless of the task. With the E210 and E210 LC, you get all the ability you need in 21-metric-ton excavators.

1. Low-effort pilot levers and smooth multifunction operation deliver the control you need for close-quarters work and around structures.

2. Generous flow, arm force, and swing torque help speed work cycles. When the work demands a little extra effort, press the pressure-boost button for the additional power you need.

3. Lift, Dig, and Hammer/Bidirectional Auxiliary work modes let an operator choose the proper hydraulic response for specific applications and attachments. Simply press a button on the sealed-switch module to select power- and work-mode settings.
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Four hydraulic power modes enable the operator to select the best combination of power and fuel efficiency. Low/Economy limits engine rpm and hydraulic power to help preserve fuel. Standard delivers a balance of power, speed, and fuel economy for typical operation. High delivers more power and faster hydraulic response to move more material.

Auto-idle reduces engine speed when hydraulics aren’t in use for impressive fuel savings and reduced noise.
A more productive day starts here.

What operator wouldn’t be more productive behind the low-effort pilot controls of a John Deere excavator? Legroom is generous, and the spacious and quiet climate-controlled cab is filled with numerous productivity-enhancing features. A mechanical-suspension high-back seat and independently adjustable armrests provide daylong comfort. And the large expanse of tinted glass allows nearly unrestricted all-around visibility. Other John Deere advantages, including an easy-to-navigate multifunction LCD monitor and fingertip-controlled sealed-switch module (SSM), provide the convenience and control needed to give productivity a push.
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Unique SSM gives convenient fingertip control of numerous machine functions including keyless start.

Mechanical-suspension seat and padded armrests are fully adjustable. An air-suspension seat is available.

1. Optional polycarbonate roof window provides additional overhead visibility.

2. Automatic climate-control system helps keep the windows clear and the cab comfortable.

3. Short-throw pilot levers provide smooth and predictable low-effort control of digging functions. Rotary dial allows fingertip engine-speed control.

4. Spacious area behind the seat provides onboard storage space and additional room to recline the seatback.

5. Easy-to-read multi-language LCD monitor allows push-button access to machine data and functions including vital operating information, detailed diagnostics, and more.

6. Two-piece front glass provides nearly unrestricted visibility and can be opened and retracted to improve ventilation.
Maintenance made easier.

Like all John Deere machines, the E210 and E210 LC are full of features that increase uptime and reduce daily operating costs. Grouped service points make it fast and easy to perform daily checks and lubrication. Periodic maintenance is convenient, too, with ground-level access to quick-change remote-mounted filters. Plus, extended service/maintenance reminders and detailed diagnostics help you make timely decisions about machine upkeep, so you can manage uptime and costs.

1. Fresh-air cab and recirculation filters are serviced quickly from ground level, where it’s more likely to get done. An in-cab indicator alerts the operator when the filter is restricted.

2. Ground-level access to remote-mounted engine-oil and fuel filters speeds service. 500-hour engine-oil, oil-filter, and fuel-filter service intervals decrease downtime for routine maintenance.

3. Perforated cooler-compartment side screens help prevent debris from plugging the coolers. Side-by-side cooler design and swing-out air-conditioner condenser allow easier core access for quicker cleanout.

4. Centralized lubrication banks make greasing less messy and time consuming.

Automatic cool-down extends idle time prior to shutdown when the engine is hot, to maximize turbocharger life.

Self-cleaning steps and anti-skid rear platform surfaces provide solid footing for daily checks and periodic maintenance.

Low-effort lift-assist hood provides wide-open engine-compartment access for quick and convenient oil and coolant checks.

Three filters and two water separators remove sediment and moisture to protect fuel-system components.

Hinged storage compartment provides plenty of space for tools, containers, or other items.

Swing open the side panels and you’ll discover many of the numerous ways the E210 and E210 LC keep maintenance to a minimum.
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**E210/E210 LC**

**Engine**
- **Manufacturer and Model**: John Deere PowerTech Plus 4045
- **Non-Road Emission Standard**: Stage III
- **Net Rated Power (ISO 9249)**: 117 kW at 2,000 rpm
- **Net Peak Power (ISO 9249)**: 118 kW at 1,900 rpm
- **Maximum Net Torque (ISO 9249)**: 633 Nm at 1,600 rpm
- **Cylinders**: 4
- **Displacement**: 4.5 L
- **Off-Level Capacity**: 70% (35 deg.)
- **Aspiration**: Turbocharged, air-to-air charge-air cooler

**Cooling**
- Variable-speed suction-type fan
- **Engine Coolant Capability**: –40° C to +48°C
- **Engine Radiator Coolant to air**
- **Hydraulic Cooler Oil to air**
- **Charge-Air Cooler Air to air**

**Hydraulics**
- **Main Pumps**: Tandem variable-displacement electrohydraulic (EH)-controlled axial-piston pumps
- **Maximum Discharge Flow**: 224 L/m x 2
- **Pilot Pump**: Gear type
- **Maximum Discharge Flow**: 20 L/m x 1

**System Operating Pressure**
- **Circuits**
  - Implement: 32.4 MPa
  - Travel: 35.3 MPa
  - Swing: 25.5 MPa
  - Pilot: 3.9 MPa
- **Pressure Boost**: 35.3 MPa
- **Auxiliary Service Valve**: Preset to 21.0 MPa 1-way mode / 32.4 MPa 2-way mode

**Controls**
- Hydraulic pilot controls with hydraulic-enable lever

**Travel System**
- Fully hydrostatic, 2-speed axial-piston motor with spring-applied hydraulic-release brake
- **Reduction System**: Planetary gear reduction
- **Maximum Travel Speed**
  - Low: 3.2 km/h
  - High: 5.7 km/h
- **Drawbar Pull**: 216 kN
- **Parking Brake**: Wet multi disc

**Cylinders**
- **Boom (2)**: 125 mm 85 mm 1221 mm
- **Arm (1)**: 140 mm 95 mm 1475 mm
- **Bucket (1)**: 120 mm 80 mm 1060 mm

**Swing System**
- **Motor**: Axial-piston with spring-applied hydraulic-release brake
- **Reduction**: Planetary gear reduction
- **Gear Lubrication**: Grease bathed
- **Brake**: Wet multi disc
- **Speed**: 12.7 rpm
- **Torque**: 58.6 kNm

**Undercarriage**
- Includes lubricated rollers, idlers, track adjusters (with shock-absorbing spring), and greased and sealed track chain with triple-grouser shoes
  - **SC option**
  - **LC standard**
  - **Center Frame**: X-leg type
  - **Track Frame**: Pentagonal box type
  - **Shoes, Triple Grouser (each side)**: 45
  - **Rollers (each side)**
    - **Carrier**: 2
    - **Track**: 7
    - **Track Guides**: 1 per side
    - **Shoe Width**: 2 per side
  - **Standard**: 600 mm/8.5-mm thickness
  - **Optional**: 500 mm/8.5-mm thickness / 600-mm/10-mm thickness

**Electrical**
- **Number of Batteries**: 2 – 12 volt (24 volt)
- **Battery Capacity**: 950 CCA
- **Reserve Capacity**: 165 min.
- **Alternator Rating**: 80 amp

**Refill Capacities**
- **Fuel Tank**: 392 L
- **Engine Coolant**: 26 L
- **Engine Oil**: 14.7 L
- **Swing Mechanism**: 4 L
- **Travel Final Device (each side)**: 3.3 L
- **Hydraulic System**: 320 L
- **Hydraulic Tank**: 216 L

**Operating Dimensions**
- **Arm Length**: 2.9 m with 5.68-m Boom
- **Bucket Digging Force (ISO)**: 153.1 kN
- **Arm Digging Force (ISO)**: 110.5 kN
- **Tooth Cutting Edge**: A
- **Maximum Reach**: 9996 mm 9828 mm
- **Maximum Reach at Ground Level**: 9772 mm 9654 mm
- **Maximum Digging Depth**: 6690 mm 6522 mm
- **Maximum Depth Cut for 2.44-m Level Bottom**: 6515 mm 6329 mm
- **Maximum Cutting Height**: 9747 mm 9624 mm
- **Maximum Loading Height**: 6828 mm 7032 mm
- **Minimum Slew Radius**: 3659 mm 3659 mm
- **Maximum Vertical Wall Digging Depth**: 4283 mm 4103 mm
- **Tail-Swing Radius**: 3041 mm 3041 mm

**Operating Weights**
- **E210/E210 LC**: Triple-Grouser Shoes
  - **600 mm**: 21 500 kg 22 200 kg
  - **500 mm**: 21 280 kg 22 860 kg
  - **Counterweight**: 3900 kg 3600 kg
- **Ground Pressure**
  - **Triple-Grouser Shoes**: 600 mm 49.6 kPa 46.3 kPa
  - **800 mm**: 58.9 kPa 35.8 kPa

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<tbody>
<tr>
<td></td>
<td>SC option</td>
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Triple-Grouser Shoes
- 600 mm: 21,500 kg
- 500 mm: 21,280 kg
- Counterweight: 3,900 kg

Ground Pressure

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<th>800 mm</th>
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Electrical

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Serviceability

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<th>Refill Capacities (standard fill)</th>
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<tr>
<td>Engine Coolant</td>
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<tr>
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<tr>
<td>Swing Mechanism</td>
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<tr>
<td>Travel Final Device (each side)</td>
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<tr>
<td>Hydraulic Tank</td>
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Operating Dimensions

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Bucket Digging Force (ISO) 153.1 kN
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<th>Tooth</th>
<th>Cutting Edge</th>
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<tr>
<td>A</td>
<td>Maximum Reach 9996 mm 9828 mm</td>
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<tr>
<td>A'</td>
<td>Maximum Reach at Ground Level 9772 mm 9654 mm</td>
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<tr>
<td>B</td>
<td>Maximum Digging Depth 6690 mm 6522 mm</td>
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Machine Dimensions

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<td>SC option</td>
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<tr>
<td>Arm Length</td>
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<tr>
<td>A Overall Length</td>
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<tr>
<td>B Overall Height</td>
<td>3140 mm</td>
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<tr>
<td>C Overall Width</td>
<td>2800 mm</td>
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<td>D Tail Length</td>
<td>2975 mm</td>
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<tr>
<td>E Tumbler Distance</td>
<td>3265 mm</td>
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<td>F Overall Length of Crawler</td>
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<td>G Counterweight Clearance</td>
<td>1089 mm</td>
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<tr>
<td>H Cap Height</td>
<td>3010 mm</td>
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<tr>
<td>I Ground Clearance</td>
<td>469 mm</td>
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<tr>
<td>J Overall Width of Upperstructure</td>
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<tr>
<td>K Track Gauge</td>
<td>2200 mm</td>
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<tr>
<td>L Shoe Width</td>
<td>600 mm</td>
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Lift Capacities

**SC Option**

Boldface type indicates stability-limited capacity; lightface type indicates hydraulically limited capacities, in kg. Ratings at bucket pivot/arm nose; machine equipped with 2.9-m arm with 5.68-m boom and 600-mm triple-grouser shoes; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are based on ISO 10567.

<table>
<thead>
<tr>
<th>LOAD POINT HEIGHT</th>
<th>1.5 m</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>Lift Capacity at Maximum Reach</th>
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<tr>
<td></td>
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<td>Side</td>
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<td>Ground Line</td>
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<td>–4.5 m</td>
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<td>11880</td>
<td>8450</td>
<td>6340</td>
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Lift Capacities

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<td>11790</td>
<td>8400</td>
<td>6980</td>
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Bucket Selection Guide* E210/E210 LC

*Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications such as mass-excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.
### Additional equipment

**E210 / E210 LC**

**Engine**
- Auto-idle system
- Automatic belt-tension device
- Batteries (2 – 12 volt)
- Dual-element, dry-type air filter
- Air-inlet precleaner
- Electronic restriction indicator for air intake
- Dust-unloader valve
- Cool air drawn from outside
- Variable-speed suction-type cooling fan
- Remote-mounted electronic control unit (ECU)
- Enclosed fan guard
- Electric fuel-lift pump
- Remote-mounted engine oil filter
- 500-hour engine-oil-change interval
- 35-deg. off-level capability
- Isolated cooling system
- Side-by-side coolers
- Trash screens for added debris protection
- Swing-out air-conditioner condenser
- Surge tank with integrated level switch
- Top-right-side service for dipstick and oil fill
- Steel-construction muffler with high-temperature paint
- Water drain in muffler
- Glow-plugs
- Independent fuel-fired engine preheater with integrated timer module
- Electric fuel-filter preheater with automatic thermostatic control
- 3-stage fuel filtration with dual water separation
- Integrated electric refueling pump, 35 lpm, with onboard auto shutoff and run-dry protection

**Upperstructure (continued)**
- Optimized bulkheads in boom and arm
- Deeper boom joints at ends
- Low-effort lift-assist hood
- Cooling air-inlet perforations for debris management
- Anti-skid plates on upper working platform
- Handrail
- General-purpose bucket, 0.9 m³
- General-purpose bucket, 1.2 m³
- Heavy-duty bucket, 0.9 m³
- Heavy-duty bucket, 1.2 m³
- Arm, 2.9 m
- Boom, 5.68 m

**Hydraulic System**
- Greased and sealed track system
- Selectable 2-speed travel, with auto mode in high speed
- Triple-grouser shoes, 600 mm/8.5-mm thickness
- Triple-grouser shoes, 800 mm/10-mm thickness (LC only)
- Triple-grouser shoes, 500 mm/8.5-mm thickness (SC only)
- Triple-grouser shoes, 600 mm/10-mm thickness (SC only)

**Undercarriage**
- Greased and sealed track system
- Selectable 2-speed travel, with auto mode in high speed
- Triple-grouser shoes, 600 mm/8.5-mm thickness
- Triple-grouser shoes, 800 mm/10-mm thickness (LC only)
- Triple-grouser shoes, 500 mm/8.5-mm thickness (SC only)
- Triple-grouser shoes, 600 mm/10-mm thickness (SC only)

**Operator’s Station**
- Mirrors (2 – frame right, cab left)
- Service ADVISOR plug and fuse access inside cab
- Rigid one-piece ROPS-certified cab frame (conforms to ISO 12117-2)
- High-capacity HVAC unit with automatic temperature control and easy filter access
- Sealed, pressurized cab
- Rugged AM/FM radio with antenna speakers and auxiliary plug for MP3 input
- Convenitely located beverage/cup holder
- Sliding upper-door glass
- Open-latch door
- Laminated upper windshield and reinforced tinted windows
- Openable and retractable 2-piece front windshield (storage for lower pane inside cab)
- Intermittent windshield wiper (park off glass) and washer with large-volume bottle (wiper disabled when front window is opened)
- Openable steel hatch
- Openable polycarbonate hatch with retractable sunshade
- Coat hook
- Onboard hammer for secondary exit
- Fire extinguisher mount location
- Washable and removable floor mat

**Upperstructure**
- Arm-protection ribs
- Bucket wear strips
- Protected grease points
- Centralized grease points for main boom
- Front end optimized for tool forces and lift capacities

**Electrical**
- 80-amp alternator
- Keyless start
- Sealed-switch module (SSM) utilizing solid-state technology
- Solid-state electronics eliminating most mechanical relays
- 17.8-cm color display featuring integrated and advanced machine diagnostic capabilities / Multi-language capability
- Work lights: Boom mounted (2) / Frame mounted (1)
- Lights on all top corners of cab (4)
- Integrated multi-PIN anti-theft system
- Battery shutoff switch
- 10-amp, 12-volt DC power converter with single and dual in-cab power ports
- Primary power modes (4) (High, Standard, Economy, and Low) and work modes (3) (Lift, Dig, and Hammer/Bidirectional Auxiliary)
- Selectable auto idle – single-stage drop after predetermined interval
- Cab wired for easy addition of optional front and rear lights, 12-volt power ports, and satellite-communication module
- Lower wiper and washer
- Rear camera with integrated machine display
- 24-volt power port
- Travel alarm with cancel switch

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**Key:** ● Standard ▲ Optional or special   See your John Deere dealer for further information.

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