# 315

## HYDRAULIC EXCAVATOR



| | |
|---|---|
| **Engine Power (ISO 14396)** | 82.0 kW (110 hp) |
| **Operating Weight** | 15 400 kg (34,000 lbs) |

Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

# THE NEW CAT® 315

## COMPACT POWER AND EFFICIENCY

The Cat® 315 excavator offers superior performance in a compact design. Standard, easy-to-use Cat technologies boost operator efficiency and improve jobsite productivity while a large, ergonomic cab provides a comfortable working environment. Combined with simplified maintenance points, the 315 keeps you working, quickly and efficiently.



### NEXT GENERATION EXCAVATORS

The new line of Cat Excavators offers more choices than ever for your business.

+ MORE MODEL OPTIONS
+ MORE STANDARD TECHNOLOGIES
+ MORE WAYS TO BOOST PERFORMANCE

Ready to help you make your business stronger, Cat Next Generation Excavators give you new ways to get the most work done at a cost that fits your business.



## SUPERIOR **PERFORMANCE**

Easily work on slopes and move around your jobsite with 10 percent more swing torque and 14 percent more drawbar pull.

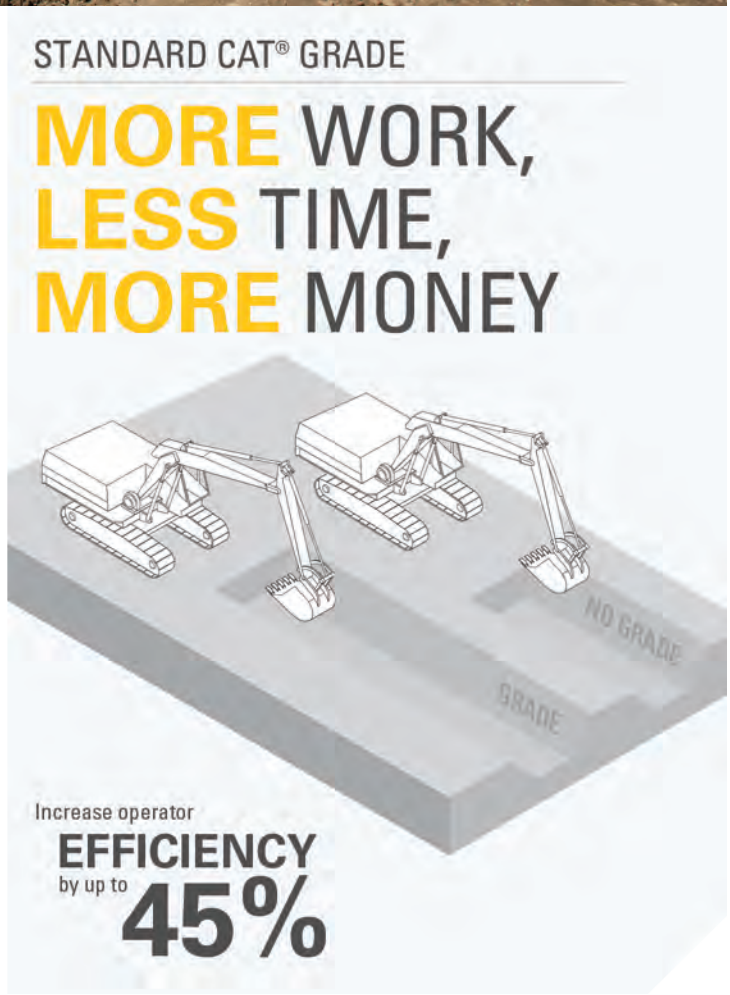
## WORK IN **COMFORT**

Increase operator productivity with an all-new, 13 percent larger cab. Deluxe and Premium cab options vary by region.

## INCREASE OPERATOR EFFICIENCY **BY UP TO 45%**[1]

The Cat 315 offers the industry's highest level of standard, factory-equipped technology, including Cat GRADE with 2D and Payload.

[1] Compared to the 315F



# BOOST YOUR PRODUCTIVITY BY UP TO 45%

## WITH SIMPLE-TO-USE INTEGRATED CAT TECHNOLOGY




## STANDARD TECHNOLOGIES INCLUDE:

### CAT GRADE WITH 2D

Cat GRADE with 2D helps operators reach grade faster. Onboard processors and sensors provide real-time guidance on distance to grade without guesswork. Work safer with fewer ground personnel needed to check the work area for obstacles or grade.

### AVAILABLE OPTIONAL UPGRADES

Cat GRADE with Advanced 2D and Cat GRADE with 3D increase productivity and expand grading capabilities. GRADE with Advanced 2D adds in-field design capabilities through an additional 254 mm (10-in.) high-resolution touchscreen monitor. GRADE with 3D adds GPS and GLONASS positioning for pinpoint accuracy. Plus, it's easier than ever to connect to 3D services like Trimble Connected Community or Virtual Reference Station with the excavator's built-in communication technology.

### CAT PAYLOAD

Cat Payload technology delivers precise load targets with on-the-go weighing, which helps prevent over/underloading and maximizes efficiency. Automated tracking helps manage production and lower costs. You can even take payload data with you. The monitor's USB port lets you download your results from one shift all the way up to 30 days of work, so you can manage your progress without needing an internet connection or VisionLink® subscription.

# CAT LINK TECHNOLOGY
## TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Link telematics technology helps take the complexity out of managing your jobsites by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



### PRODUCT LINK™

Product Link collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.



### VISIONLINK

Access information anytime, anywhere with VisionLink. Use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).



**Remote Services** is a suite of technologies that improve your jobsite efficiency.

**Remote Troubleshoot** allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot helps ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

**Remote Flash** updates on-board software without a technician being present, potentially reducing update time by as much as 50 percent. You can initiate the update when convenient, increasing your overall operating efficiency.

The **Cat App** helps you manage your assets – at any time – right from your smartphone. You can see your fleet location, hours, and other information. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

# COMPACT RADIUS

## SIZED RIGHT FOR CONFINED SPACES

The 315's compact radius design makes it the right machine for working in space-restricted areas. Work confidently in road construction jobs with lane closures and next to buildings and other structures.

**WORK WITH CONFIDENCE AND POWER**
Unlike a standard radius machine, the 315's boom cylinders are positioned toward the center of the machine, maximizing lifting performance over the front.








# EXPAND YOUR JOBSITE CAPABILITIES

## WITH MORE SWING TORQUE AND GREATER FUEL EFFICIENCY

A 10 percent increase in swing torque and a 14 percent increase in drawbar pull versus the previous model makes traveling, swinging, and working on slopes easy. Backfill trenches and move around your jobsite faster than before – allowing you to be more productive and finish jobs quickly.

### INCREASE FUEL EFFICIENCY

An advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.



### SEAT AND JOYSTICK CONSOLE HELP REDUCE FATIGUE

Comfort and movement efficiency help keep operators productive and alert all shift long. A tip-up left console lets you get in and out of the cab easily, and the standard seat is wide and adjustable for operators of virtually any size. Controls are easy to reach, allowing you to operate comfortably with minimal twists and turns.




# CAB TAKES THE HARD OUT OF WORK

The new 315 cab protects the operator as much as possible from the fatigue, stresses, sounds, and temperatures of the job.




## NEW SMART MODE

The new Smart mode, one of three power mode settings, automatically adjusts engine and hydraulic power for the highest fuel efficiency – less power for tasks such as swinging and more power for digging. Operators can set and store their power mode preference using Operator ID. Owners can lock in the mode they want their operators to use to help manage fuel consumption.

## KEYLESS PUSH TO START

The 315 uses a keyless push-button engine start. This adds security for the machine by using Operator ID codes to limit and track machine access. Codes can be entered manually, via an optional Bluetooth® key fob, or using a smartphone app.

## CUSTOMIZABLE JOYSTICKS

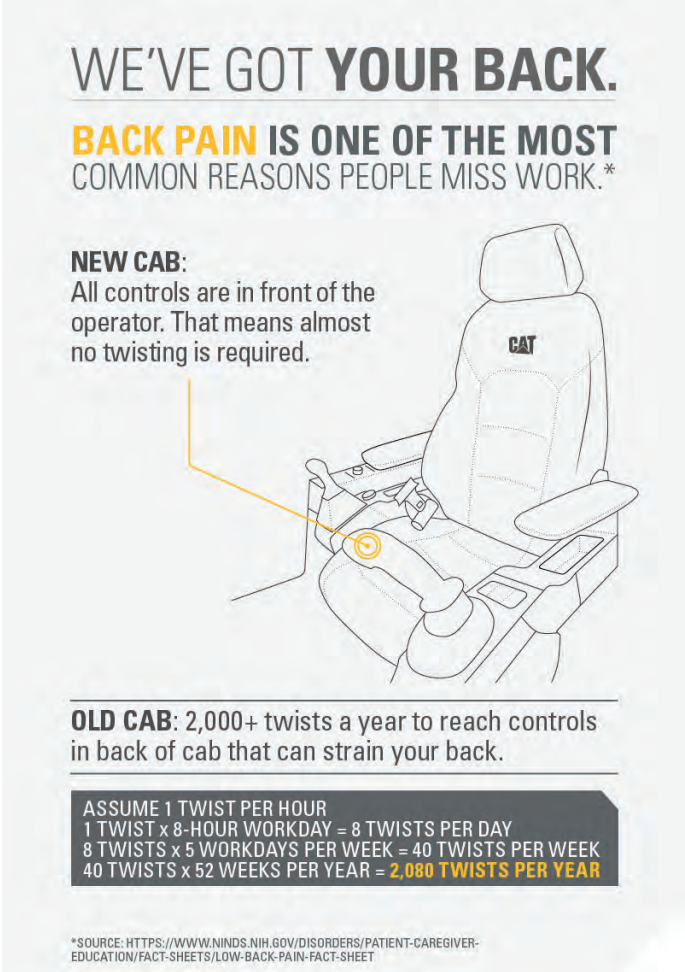
Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preferences. All preferences are saved with the Operator ID and restored at log in. For additional modifications to the function speed (Gain) setting and balance refinement, contact your local Cat dealer.

## TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution 203 mm/8-in. touchscreen monitor. It offers 42 languages and is easy to read from the seat. A second 254 mm/10-in. touchscreen monitor is available.

NEW CAB DESIGN

# HELPS KEEP YOU SAFE




## ALL-AROUND VISIBILITY

Enlarged windows and improved machine layout increase visibility from the seat of the cab. Standard rearview and right-side-view cameras always keep operators aware of their surroundings. An optional 360° visibility feature is also available. Powerful, long-lasting LED lights consume minimal power, keeping you safe while working in the dark.

## ISO-CERTIFIED ROPS CAB KEEPS YOU SAFE

The ISO-certified ROPS cab is sound suppressed and sealed. The large windows and lower front, right, and rear profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

## EASY ACCESS, CONNECTIVITY, AND STORAGE

Several built-in convenience features make work more comfortable.

+ ERGONOMIC CONTROL LAYOUT
+ BLUETOOTH-INTEGRATED RADIO
+ USB PORTS FOR CHARGING AND PHONE CONNECTIVITY
+ 12V DC OUTLETS AND AUX PORT
+ STORAGE IN REAR, OVERHEAD, AND CONSOLE COMPARTMENTS
+ CUP AND BOTTLE HOLDERS

# SAFETY FEATURES

## LOOK OUT FOR YOUR PEOPLE AND EQUIPMENT

Help keep your people and equipment safe with new safety technology features, ground-level daily maintenance, and new upper platform access.




### GROUND-LEVEL DAILY MAINTENANCE

All daily maintenance checks can be performed from ground level, making maintenance faster, easier, and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.

### UPPER PLATFORM ACCESS

New right service platform design provides easy, safe, and quick access to upper service platform. The service platform steps use anti-skid punch plate to help prevent slipping.

### SECURE START

Use your PIN code on the monitor, the optional Bluetooth key fob, or your smartphone to enable the push-button start feature.

### STANDARD 2D E-FENCE TECHNOLOGY

Standard 2D E-fence automatically stops excavator motion using boundaries you set through the monitor for the entire working envelope – above, below, sides, and front. E-fence protects equipment from damage and reduces fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing overswinging and overdigging.



E-WALL SWING



E-WALL FORWARD



E-WALL CAB PROTECTION



E-WALL CEILING



E-WALL FLOOR







## DO MORE. PAY LESS.

With extended and more synchronized maintenance intervals, you get more done at a lower cost. Consolidated filter locations make service faster.

## INFORMATION AT YOUR FINGERTIPS

View operating information such as fuel and oil levels as well as critical service alerts on the in-cab touchscreen monitor. Your machine's filter life and maintenance intervals are also trackable on the in-cab monitor.

## NEW LONGER-LASTING FILTERS

The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and a 3,000-hour replacement interval – 50 percent longer than previous filter designs.

INCREASE YOUR PRODUCTIVITY AND PROFIT

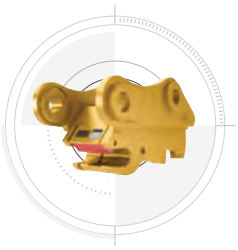
# WITH CAT ATTACHMENTS

Easily expand the performance of your machine by using any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability.

### CW-DEDICATED COUPLERS



### PIN GRABBER COUPLERS



### HYDRAULIC HAMMERS



### PREVENT HAMMER WEAR AND TEAR

Protect your hammer from overworking. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to prevent wear and tear on the attachment and excavator.

### GRAPPLES



### SHEARS



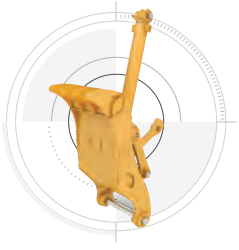
### VIBRATORY PLATE COMPACTORS



### MULCHERS



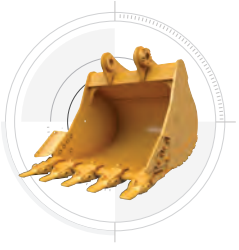
### THUMBS



### GENERAL DUTY BUCKETS



### HEAVY DUTY BUCKETS



### DITCH CLEANING TILT BUCKETS



## ATTACHMENT TRACKING MADE EASY

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The excavator's on-board Bluetooth reader or the Cat app on your phone will locate the device automatically.



Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity; it also ensures all the attachment settings are correct, so you can get to work quickly and efficiently.

# TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

| ENGINE | | |
|---|---|---|
| Engine Model | Cat C3.6 | |
| Engine Power – ISO 14396 | 82.0 kW | 110 hp |
| Engine Power – ISO 9249 | 80.9 kW | 108 hp |
| Bore | 98 mm | 4 in |
| Stroke | 120 mm | 5 in |
| Displacement | 3.6 L | 220 in³ |

| HYDRAULIC SYSTEM | | |
|---|---|---|
| Main System – Maximum Flow | 276 L/min | 72.9 gal/min |
| Maximum Pressure – Equipment | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Travel | 35 000 kPa | 5,075 psi |
| Maximum Pressure – Swing | 26 000 kPa | 3,770 psi |

| SWING MECHANISM | | |
|---|---|---|
| Swing Speed | 12 rpm | |
| Maximum Swing Torque | 35 kN·m | 25,815 lbf-ft |

| WEIGHTS | | |
|---|---|---|
| Operating Weight | 15 400 kg | 34,000 lb |

- Reach boom, R3.0 (9'8") Stick, GD 0.53 m³ (0.69 yd³) bucket, 700 mm (28") triple grouser shoes, and 3830 kg (8,440 lb) counterweight.

| SERVICE REFILL CAPACITIES | | |
|---|---|---|
| Fuel Tank | 187 L | 49 gal |
| Cooling System | 15 L | 4 gal |
| Engine Oil | 8 L | 2 gal |
| Final Drive | 3 L | 1 gal |
| Hydraulic System (including tank) | 138 L | 36 gal |
| Hydraulic Tank | 72 L | 19 gal |
| DEF Tank | 21 L | 6 gal |

| DIMENSIONS | | |
|---|---|---|
| Boom | Reach 4.65 m (15'3") | |
| Stick | Reach R3.0 m (9'8") | |
| Bucket | GD 0.53 m³ (0.69 yd³) | |
| Shipping Height (top of cab) | 2810 mm | 9'2" |
| Handrail Height | 2860 mm | 9'4" |
| Shipping Length | 7530 mm | 24'8" |
| Shipping Length (with blade) | 8090 mm | 26'6" |
| Tail Swing Radius | 1570 mm | 5'1" |
| Counterweight Clearance | 880 mm | 2'10" |
| Ground Clearance | 440 mm | 1'5" |
| Track Length | 3750 mm | 12'3" |
| Length to Center of Rollers | 3040 mm | 9'11" |
| Track Gauge | 1990 mm | 6'6" |
| Transport Width – 500 mm (20") shoe | 2490 mm | 8'2" |

| WORKING RANGES AND FORCES | | |
|---|---|---|
| Boom | Reach 4.65 m (15'3") | |
| Stick | Reach R3.0 m (9'8") | |
| Bucket | GD 0.53 m³ (0.69 yd³) | |
| Maximum Digging Depth | 5990 mm | 19'7" |
| Maximum Reach at Ground Line | 8690 mm | 28'6" |
| Maximum Cutting Height | 9690 mm | 31'9" |
| Maximum Loading Height | 7220 mm | 23'8" |
| Minimum Loading Height | 2080 mm | 6'9" |
| Maximum Depth Cut for 2440 mm (8'0") Level Bottom | 5810 mm | 19'0" |
| Maximum Vertical Wall Digging Depth | 5180 mm | 16'11" |
| Minimum Working Equipment Radius | 2240 mm | 7'4" |
| Bucket Digging Force (ISO) | 98.67 kN | 22,180 lbf |
| Stick Digging Force (ISO) | 59.29 kN | 13,330 lbf |

## AIR CONDITIONING SYSTEM

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant which has a $CO_2$ equivalent of 1.216 metric tonnes.

# STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

| BOOMS AND STICKS | STANDARD | OPTIONAL |
|---|---|---|
| One-piece boom | | ● |
| Variable angle boom | | ●[1] |
| R2.2 m (7'3") stick | | ●[1] |
| R2.5 m (8'2") stick | | ●[3] |
| R2.8 m (9'2") stick | | ●[2] |
| R3.0 m (9'8") stick | | ● |

| CAB | STANDARD | OPTIONAL |
|---|---|---|
| ROPS, sound suppression | ● | |
| Deluxe cab: air suspension heated seat, 254 mm (10") touchscreen monitor | | ● |
| Premium cab: air suspension heated and cooled seat, 10" touchscreen monitor | | ●[1] |

| CAT TECHNOLOGIES | STANDARD | OPTIONAL |
|---|---|---|
| Cat Product Link | ● | |
| Cat GRADE with 2D | ● | |
| Cat GRADE with Advanced 2D | | ● |
| Cat GRADE with 3D | | ● |
| Cat Payload | ● | |
| 2D E-fence | ● | |
| Remote Flash Capability | ● | |
| Remote Troubleshoot Capability | ● | |
| Work tool recognition | ● | |
| Work tool tracking | ● | |
| Auto hammer stop | ● | |

| ELECTRICAL SYSTEM | STANDARD | OPTIONAL |
|---|---|---|
| Maintenance-free battery | ● | |
| LED chassis light, left-side/right-side boom lights, cab lights | ● | |
| Programmable time-delay LED working lights | ● | |
| 360° lighting | | ● |

| ENGINE | STANDARD | OPTIONAL |
|---|---|---|
| C3.6 Tier 4 Final/Stage V | ● | |
| One-touch low idle with automatic engine speed control | ● | |
| Auto engine shutdown | ● | |
| 52°C (125°F) high-ambient cooling capacity without derate | ● | |
| -25°C (-13°F) cold start capability | ● | |
| Electric fuel priming pump | ● | |
| Variable fan | ● | |
| Single fuel filtration system | ● | |
| Double element air filter with integrated precleaner | ● | |
| Biodiesel capability up to B20 | ● | |

| HYDRAULIC SYSTEM | STANDARD | OPTIONAL |
|---|---|---|
| Boom and stick regeneration circuits | ● | |
| Auto hydraulic warmup | ● | |
| Auto two-speed travel | ● | |
| Electric main control valve | ● | |
| Boom and stick drift reduction valve | ● | |
| Electric boom snubber | ● | |
| Auxiliary line support | ● | |
| Boom and stick lowering check valves | | ● |
| Medium-pressure line | | ● |
| High-pressure line | | ● |
| Quick coupler line | | ● |

| SAFETY AND SECURITY | STANDARD | OPTIONAL |
|---|---|---|
| Rear- and right-side-view cameras | ● | |
| 360° visibility | | ● |
| Ground-level engine shutoff switch | ● | |
| Service platform with anti-skid plate and countersunk bolts | ● | |
| Signaling/warning horn | ● | |

| SERVICE AND MAINTENANCE | STANDARD | OPTIONAL |
|---|---|---|
| Grouped engine oil and fuel filters | ● | |
| Ground-level engine oil dipstick | ● | |
| S•O•S℠ sampling ports | ● | |

| UNDERCARRIAGE AND STRUCTURES | STANDARD | OPTIONAL |
|---|---|---|
| Grease lubricated track link | ● | |
| ISO 15818 tie down points on base frame | ● | |
| 500 mm (20") triple grouser shoes | | ● |
| 600 mm (24") triple grouser shoes | | ● |
| 700 mm (28") triple grouser shoes | | ● |
| 3830 kg (8,440 lb) counterweight | ● | |
| 2500 mm (8'2") blade | | ● |
| 2600 mm (8'6") blade | | ● |
| 2700 mm (8'10") blade | | ● |

[1]Europe only
[2]All regions except North America
[3]North America only

**Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.**
For additional information, refer to the Technical Specifications brochures for the 315 available at www.cat.com or your Cat dealer.

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com.

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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