

**CASE**  
CONSTRUCTION

# Backhoe Loaders

N SERIES



580N EP | 580N | 580 Super N | 580 Super N WT | 590 Super N

**SINCE 1842**



**580N EP**



**580N**



**580 Super N**



**580 Super N WT**



**590 Super N**





# *Outmuscle, Outpower, Outperform, Outlast*

When your legacy goes back to creating the world's first fully integrated backhoe loader you tend to understand a thing or two about how to engineer them. Meet the Tier 4 Final N Series—some of the most versatile machines in the industry—and built to outdo. The best breakout force. The highest lifting capacity. Fast roading speeds. One of the quietest cabs. Their list of credentials is impressive. Whether it's excavating, grading, craning, loading or removing snow, the Tier 4 Final N Series are the machines made for the job.

- + PowerLift™\*\*
- + PowerBoost\*\*
- + PowerDrive - Direct Drive Transmission\*
- + Over-Center Backhoe Design
- + ProControl System (PCS)
- + Comfort Steer™\*\*\*
- + Greater Coupler Compatibility and Design\*\*\*\*
- + Second-to-None Serviceability

\*Not available on the 580N EP

\*\*Not available on the 580N EP or 580N

\*\*\*Not available on the 580N EP or any 2WD models

\*\*\*\*Optional

# STRENGTH FROM WITHIN



## **FUEL-SAVING FEATURES\***

ECO-mode minimizes fuel burn while still providing full power to hydraulics. Other features such as auto-idle and auto-shutdown help take efficiency even further to lower operating costs.

\*ECO-mode, auto-idle and auto-shutdown not available on 580N EP

## **CUT TURNS IN HALF WITH COMFORT STEER™\***

CASE's Comfort Steer option reduces lock-to-lock rotations when moving from full right to full left (and vice versa). Load, stockpile and backfill considerably faster with less operator discomfort throughout the day.

\*Comfort Steer™ not available on 580N EP or any 2WD models

## **THE MOST MANEUVERABLE CONTROLS AROUND**

Creature comforts such as infinitely adjustable pilot control towers that adjust fore/aft and tilt in/out, as well as proportional roller switches, comfortable armrests, adjustable wrist rests and a footrest help keep any-sized operator comfortable.

Change directions quickly and easily with the flip of a switch. PowerDrive equipped machines offer a secondary Forward Neutral Reverse (FNR) switch that can be easily operated on the loader control lever. Also offered is an ergonomically placed clutch cut-out trigger allowing operators to channel more hydraulic flow to the loader.

## **LIGHTS, VISIBILITY, 360° ACTION**

All N Series machines feature high-intensity exterior lighting, including industry-inclusive "Easy Flex" side lighting\*. These adjustable lights have 45° rotation to provide overlapping fields of coverage for 360° visibility at night. For even greater visibility, an optional LED lighting package is available.

\*Not available on 580N EP canopy models

## **COMMUNICATION IS A BREEZE**

All windows easily open by hand, including the rear-quarter window, which opens 180°. Not only does this maximize airflow through the cab, it enables operators to clearly communicate with spotters all around the machine.

## **ADD VALUE WITH CASE OPTIONS**

For an increase in comfort the premium cloth hand stitched seat offers heat and air suspension with distinctive Power Tan striping, contrast stitching and a woven CASE logo. Hands-free calling, music streaming and a variety of connections allow operators to communicate and connect to their cell phone and audio devices with the standard waterproof bluetooth radio\*. Keep mud, dirt and debris contained with optional front fenders.

\*Standard on all cab models



**MAXIMUM VISIBILITY  
MINIMUM VOLUME**

Floor-to-ceiling windows encircle the operator for exceptional sightlines of loader and backhoe. The N Series also offers one of the quietest cabs in the industry, with a sound rating as low as 72 dBa.

## **DIG, LIFT, LOAD AND ROAD – BETTER**

### **PROCONTROL MEANS PRECISION**

When swinging the backhoe from side to side, our exclusive ProControl swing dampening system stops the boom exactly when and where you want. No wiggle. No rebound. No waiting for it to set. Just precise, responsive control.





**POWERLIFT POWERBOOST**

**POWERLIFT™ AND POWERBOOST TAKE TOUGHNESS UP A NOTCH\***

Our push-button PowerLift feature unleashes the industry's most ferocious breakout force and a lifting capacity that outperforms the competition. Additional hydraulic power is channeled directly to the backhoe, giving the N Series strength comparable to an 8-ton excavator and greater precision when craning with lower engine RPMs. PowerBoost offers PowerLift forces and unleashed engine RPMs for full power and speed designed to dig through tough ground in an instant. \*Not available on 580N EP and 580N



**POWERDRIVE – DIRECT DRIVE TRANSMISSION**

PowerDrive transmissions feature automatic Direct Drive engagement in 3rd and 4th gear locking the power of the engine to the transmission for increased gradeability and acceleration while reducing travel times around the job site. Standard Auto-Shifting, a fourth reverse gear and six distinct speeds provide constant matched speed and torque to adapt to a variety of terrains and demanding tasks.



**BENEFIT OF OVER-CENTER DESIGN**

Our revolutionary over-center backhoe design locks the boom in toward the machine, transferring at least 15% of its weight to the front axle, which drastically improves stability to minimize “porpoising” during roading. You’ll retain more material and comfortably travel up to 25 mph to, from and around the site.



**AUTO-RIDE CONTROL™**

CASE Auto-Ride Control is a spill-reducing feature engineered into our 4WD backhoe loaders. This highlight automatically reduces loader arm bounce at elevated speeds and features industry-leading adjustable speed settings, giving operators full control of their load retention as well as their comfort.



**LOW-TO-NO MAINTENANCE TIER 4 FINAL SOLUTIONS**

All N Series backhoe loaders make it easy to meet emissions regulations. The 580N EP uses a maintenance-free Diesel Oxidation Catalyst that has no exhaust filter to replace, no regeneration and no DEF (Diesel Exhaust Fluid) to add - just get in and go. The rest of the N-Series lineup uses an SCR (Selective Catalytic Reduction) after-treatment system. Without the need to regenerate, you don't have to worry about downtime or burning additional fuel. The system lets the engine run at peak performance for maximum power and better fuel efficiency. Just top off the DEF (Diesel Exhaust Fluid) when needed and you're ready to go.



**ADDED CLEARANCE – ADDED PERFORMANCE\***

18" front tires and a heavy duty front axle clear the most severe terrain and put power to the ground for increased gradeability, push power and maneuverability in demanding applications.

\*Available on 580N and 580SN models



## ATTACHED TO STRENGTH

CASE backhoe loaders are available with a variety of attachments to give your business even greater versatility.

**SEE OUR FULL LINE AT [CASECE.COM/ATTACHMENTS](http://CASECE.COM/ATTACHMENTS)**

### UNIVERSAL COUPLER

CASE offers a universal backhoe coupler option that also fits most Cat® and John Deere attachments for even greater versatility.

### FACTORY INSTALLED THUMB

Get a grip with a hydraulic backhoe thumb designed and manufactured by CASE, available as a bolt-on, no welding required, factory installed option or Dealer Installed Accessory (DIA) kit. The serrated teeth, made of rugged high-strength steel, provide excellent grip to make material handling easy. The adjustable teeth can be bolted into two positions in order to mesh with both the 18 or 24 inch universal and high-capacity buckets. Designed for use with both hydraulic and mechanical quick couplers allows quick and easy bucket changes throughout the day. When not in use, a convenient thumb lock mechanically holds the thumb in the "open" position for worry-free bucket operation.

Thumbs can be installed on all Extendahoe® machines equipped with two-way backhoe auxiliary hydraulics.

### INDUSTRY-EXCLUSIVE INTEGRATED HYDRAULIC QUICK-COUPLER

Only CASE offers an integrated hydraulic quick-coupler\* on our backhoes. Its unique design is factory-built into the backhoe, so it doesn't alter the physics or breakout force of the machine like after-market options. You get the same industry-leading power with the added convenience of being able to switch out attachments from the comfort of the cab.

\*Not available on 580N EP, 580N or any standard dipper/arm configuration

### SMARTFIT™ BUCKET TEETH

N Series buckets come standard with the innovative SmartFit bucket tooth system. These heavy-duty, self-sharpening teeth combine exceptional strength and unmatched ease of installation, thanks to a hammerless fastener system with reusable locking pins. Available in a full range of styles.



**THUMB AND THUMB LOCK**



**HYDRAULIC COUPLER**



**RIPPER**



**GRADER RAKE**



**AUGER**

# MAINTENANCE MADE EASY

## SERVICEABILITY IS IN OUR DNA

When you invest in CASE equipment, you need it to last. We make it simple. The N Series is no exception. From swing-out coolers and outboard-mounted disc brakes to ground-level site gauges and grouped service points located under a tilt-up hood, you can do daily maintenance in a matter of minutes. It's the easiest way to help you get the most performance and longest life out of your machine.



### Easy access to everything

- 1 Easiest safety strut to lower/raise
- 2 Spin-on filters
- 3 Electronic Fuel Priming\*  
\*Not available on 580N EP models
- 4 Flip-up hood
- 5 Outboard-mounted wet disc brakes
- 6 Hydraulic diagnostic ports
- 7 Grouped site gauges
- 8 Safe jump-start terminal and master disconnect switch
- 9 Externally adjustable Extendahoe wear pads

## NO TOOLS NECESSARY

The N Series backhoe loaders continue the CASE hallmark of simple serviceability with features like tool-free access to routine maintenance points.



### Service-free features

- + Lube-for-life U-joints
- + Hardened steel triple-bushed joints
- + Maintenance-free Tier 4 Final solution for 580N EP

## **SUPPORT COMES STANDARD**

### **BASE & EXTENDED LIMITED WARRANTY COVERAGE\***

#### **1-YEAR/UNLIMITED-HOUR FULL-COVERAGE BASE LIMITED WARRANTY**

#### **2-YEAR/2,000-HOUR EXTENDED LIMITED ENGINE WARRANTY**

Discuss the extended engine warranty coverage details with your dealer.

### **UPTIME SOLUTIONS**

Your CASE dealer can provide solutions to meet all your needs and keep you productive.



### **STRONGER PRODUCT SUPPORT SOLUTIONS**

Your CASE dealer knows best how you can maximize your equipment investment and uptime—with genuine CASE parts, expert service and a complete range of product support solutions including CASE remanufactured and all-makes parts. CASE supports better parts availability and faster deliveries through nine parts distribution centers in North America and a forecasting system to ensure that the right parts will be there when you need them. And only CASE dealers have exclusive access to the Electronic Service Tool (EST) that quickly pinpoints machine issues. Just ask your dealer for details.



### **FLEXIBLE FINANCIAL OPTIONS**

Specialized finance programs and flexible leasing packages put you in the driver's seat of industry-leading CASE equipment while no-nonsense warranties and comprehensive protection plans ensure that your equipment is protected. As the only finance company dedicated to CASE, we offer strong products and services designed around your unique needs and are the only ones supported by the helpful service professionals at your CASE dealer.

\*Please see your CASE dealer for limitations, exclusions and confirmation of policies in effect.





## REMOTE CONTROL

**SiteWatch™**

Standard on all N Series backhoe loaders, CASE SiteWatch™ telematics break the boundaries of fleet management by allowing you to monitor and manage multiple machines from your computer, wherever you may be. No more manually tracking down engine hours and fuel levels. Get real-time performance metrics, idle-time analytics, scheduled maintenance intervals and programmable security alerts sent to any computer, anytime, anywhere.

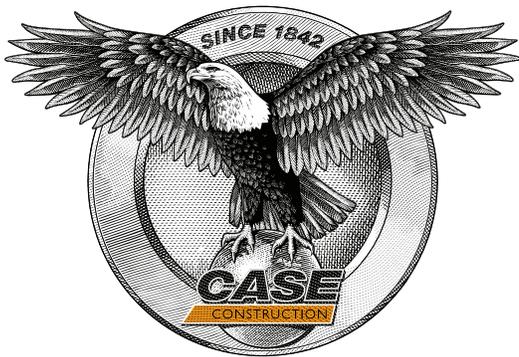


# SPECIFICATIONS AND DIMENSIONS

SPECIFICATIONS	580N EP	580N	580 Super N	580 Super N WT	590 Super N
<b>Engine</b>	FPT F5HFL463D	FPT F5BFL413C	FPT F5BFL413B	FPT F5BFL413A	FPT F5BFL413A
<b>Displacement/Cylinders-in<sup>3</sup> (L)</b>	207 (3.4)/4	207 (3.4)/4	207 (3.4)/4	207 (3.4)/4	207 (3.4)/4
<b>Emissions Certification* Solutions</b>	Tier 4 Final (DOC)	Tier 4 Final (SCR)	Tier 4 Final (SCR)	Tier 4 Final (SCR)	Tier 4 Final (SCR)
<b>Gross Horsepower @ 2200 RPM – hp (kW)</b>	74 (55)	90 (67)	97 (72)	110 (82)	110 (82)
<b>Net Horsepower @ 2200 RPM – hp (kW)</b>	68 (51)	83 (62)	95 (71)	108 (81)	108 (81)
<b>Maximum Net Torque @ 1400 RPM – lb-ft (N-m)</b>	233 (316)	306 (415)	334 (453)	339 (460)	339 (460)
<b>Operating Weight 4WD – lb (kg)</b>	15,810 (7 171)	17,751 (8 052)	19,067 (8 649)	20,077 (9 107)	20,532 (9 309)
<b>Maximum Travel Speed Forward – mph (kph)</b>	21.3 (34.3)	25.0 (40.2)	25.0 (40.2)	25.2 (40.6)	25.2 (40.6)
<b>System Flow – gpm (L/min)</b>	28.5 (108)	28.5 (108)	41 (155.2)	41 (155.2)	43 (162.6)
<b>Backhoe Bucket Force – lbf (kN)</b>	11,517 (51.2)	11,517 (51.2)	14,452 (64.2)	15,070 (67.0)	15,853 (70.5)
<b>Backhoe Boom Lift Capacity @ groundline – lb (kg)</b>	2,858 (1 297)	2,858 (1 297)	3,513 (1 594)	3,761 (1 706)	4,175 (1 894)
<b>Loader Bucket Breakout Force – lb (daN)</b>	9,607 (4 273)	10,622 (4 724)	10,947 (4 965)	10,873 (4 837)	12,776 (5 683)
<b>Loader Lift Capacity @ Full Height – lb (kg)</b>	6,503 (2 950)	6,803 (3 086)	7,044 (3 195)	8,425 (3 822)	8,202 (3 721)
DIMENSIONS	580N EP	580N	580 Super N	580 Super N WT	590 Super N
<b>Height to Top of Cab</b>	8 ft 11 in (2.72 m)	8 ft 11 in (2.72 m)	8 ft 11 in (2.72 m)	8 ft 11 in (2.72 m)	8 ft 11 in (2.71 m)
<b>Bucket Hinge Pin Height, Fully Raised</b>	11 ft 3 in (3.41 m)	11 ft 3 in (3.42 m)	11 ft 3 in (3.42 m)	11 ft 6 in (3.50 m)	11 ft 6 in (3.50 m)
<b>Overall Operating Height, Fully Raised</b>	13 ft 9 in (4.17 m)	13 ft 9 in (4.18 m)	13 ft 9 in (4.18 m)	13 ft 11 in (4.24 m)	13 ft 11 in (4.24 m)
<b>Dump Angle @ Full Height</b>	46°	47°	47°	45°	45°
<b>Dump Clearance @ Full Height, 45° Dump</b>	8 ft 8 in (2.63 m)	8 ft 10 in (2.69 m)	8 ft 10 in (2.69 m)	8 ft 11 in (2.73 m)	8 ft 11 in (2.73 m)
<b>Dump Reach @ Full Height, 45° Dump</b>	26.7 in (679 mm)	31.5 in (801 mm)	31.5 in (801 mm)	27.0 in (685 mm)	29.2 in (741 mm)
<b>Bucket Rollback @ Groundline</b>	40°	42°	42°	40°	40°
<b>Digging Depth Below Grade, Bucket Flat</b>	7.8 in (199 mm)	6.1 in (155 mm)	6.1 in (155 mm)	6.1 in (156 mm)	6.2 in (157 mm)
<b>Wheelbase</b>	84.5 in (2.15 m)	84.5 in (2.15 m)	84.5 in (2.15 m)	84.5 in (2.15 m)	84.5 in (2.15 m)
<b>Reach from Front Axle Centerline, Bucket on Ground</b>	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)	6 ft 9 in (2.05 m)	6 ft 7 in (2.05 m)
<b>Turning Radius at Curb, 4WD, Brakes Applied</b>	11 ft 4 in (3.45 m)	11 ft 4 in (3.45 m)	11 ft 4 in (3.45 m)	12 ft 0 in (3.65 m)	12 ft 6 in (3.81 m)
<b>Backhoe Dig Depth</b>	18 ft 6 in (5.63 m)	18 ft 3 in (5.55 m)	17 ft 11 in (5.47 m)	18 ft 0 in (5.48 m)	19 ft 6 in (5.94 m)

Specification data calculated using same bucket determining operating weight unless otherwise specified.

\*DOC = Diesel Oxidation Catalyst, SCR = Selective Catalytic Reduction.



## **BUILDING A STRONG CASE**

Since 1842, we at CASE Construction Equipment have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity. We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development. This focus has led to numerous innovations like Ride Control™, EZ-EH controls, blade shake, PowerLift™, over-center boom design and the peace of mind that only CASE ProCare provides.

Every CASE machine is backed by more than 300 North American dealer locations, thousands of OEM, remanufactured and all-makes parts, and flexible financing and insurance options that provide the kind of reliable, steadfast support you expect from a professional partner.

We are passionate about improving the lives of others, whether investing in our veterans or raising awareness about local infrastructure initiatives through Dire States. Our goal is to build both stronger machines — and stronger communities.

At the end of the day, we do what's right by our customers and our communities so that they can count on CASE.

**CaseCE.com/TLB**

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.