

CASE
CONSTRUCTION

N SERIES
BACKHOE LOADERS

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



OUTMUSCLE. OUTPOWER. OUTPERFORM. OUTLAST.

When you're building one of the most versatile machines in the industry, where do you focus your strength? Everywhere. The best breakout force, the highest lifting capacity, the fastest roading speeds, the quietest cab – the list of credentials is impressive. That's what happens when your legacy goes back to the world's first backhoe loader. So whether it's excavating, grading, craning, loading or removing snow, the N Series is engineered to outdo.



PowerLift™*

*Not available on the 580N



**Over-Center
Backhoe Design**



**ProControl System
(PCS)**



Comfort Steer™



Fully Integrated Hydraulic Quick-Coupler*

**Optional*



Second-to-None Serviceability

Models Available



580N



580 Super N



580 Super N WT



590 Super N

DIG, LIFT, LOAD AND ROAD – BETTER.



POWERLIFT™ TAKES TOUGHNESS UP A NOTCH*

Our exclusive, push-button PowerLift feature unleashes the industry's most ferocious breakout force and a lifting capacity that outperforms the competition to the tune of nearly 1,200 lbs. 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.

*Not available on 580N

A QUICK 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 an industry-leading 24 mph to, from and around the site.

OPERATORS ASKED FOR IT – AUTO-RIDE CONTROL™

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



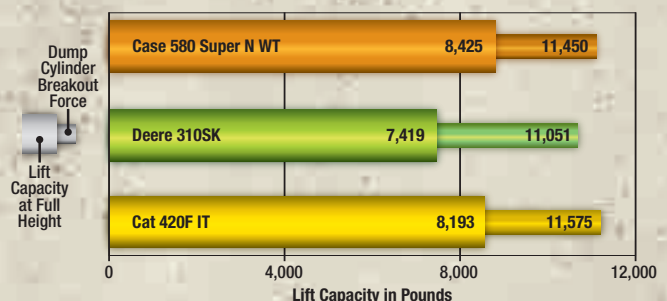
SAME POWER, SAME TORQUE, LESS FUEL

To meet Tier 4 Interim standards, a 3.4-liter turbocharged CEGR (Cooled Exhaust Gas Recirculation) engine delivers the performance of previous models while providing a faster throttle response and delivering fuel savings of 5-20%. And where other solutions required a larger hood that decreases visibility, ours stayed the same. That’s going beyond compliance.



DIG DEEPER. REACH FURTHER. LOAD FASTER.

Every element of the CASE loader is designed for greater productivity. Longer arms make it easier to load in the center of a truck, a mechanical stopper causes metal-to-metal impact on full dump to shake out material, and our in-line parallel linkage with a solid thru-pin design – another industry first – helps balance uneven loads. It’s a loader like no other.





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.

**MAXIMUM VISIBILITY.
MINIMUM VOLUME.**

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



STRENGTH FROM WITHIN.

CUT TURNS IN HALF WITH COMFORT STEER™

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

THE MOST MANEUVERABLE CONTROLS AROUND

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



Pilot control towers offer industry-leading ergonomic design.

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.

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.

SMARTCLUTCH – DECIDE HOW IT DRIVES

Operators can customize the feel of forward-to-reverse transitions, thanks to our industry-exclusive SmartClutch modulation. Aggressive or soft, set it to what you need.



Adjustable “Easy Flex” side lights come standard.

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 | 4. Outboard-mounted wet disc brakes | 7. Swing-out coolers |
| 2. Spin-on filters | 5. Hydraulic diagnostic ports | 8. Safe jump-start terminal and master disconnect switch (optional) |
| 3. Flip-up hood | 6. Grouped site gauges | |

SERVICE-FREE FEATURES

- Lube-for-life U-joints
- Hardened steel triple-bushed joints

SEE A 360° VIEW



CaseCE.com/360



NO TOOLS NEEDED

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



REMOTE. CONTROL.



SUPPORT COMES STANDARD

Base & Extended Warranty Coverage*

2-Year/2,000-Hour Standard Powertrain Warranty available at no charge in addition to 1-Year/Unlimited-Hour Full-Coverage Base Warranty

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

Purchased Protection Plan

Extension of the factory base and extended coverage is available at an additional cost. Plans are available up to six years/7,500 hours on CASE N Series backhoe loaders. Talk to your CASE dealer to determine the plan that best fits your needs.

Breakdown Assistance

Standard on all CASE equipment.

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 that quickly pinpoints machine issues to help maximize uptime.



**PARTS
& SERVICE**





Standard on all N Series backhoe loaders, CASE SiteWatch™ telematics breaks the boundaries of fleet management by allowing you to monitor and manage multiple machines from your office, wherever that 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.





ATTACHED TO STRENGTH.

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.

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.



THE N SERIES BACKHOE LOADERS



SPECIFICATIONS	580N	580 Super N	580 Super N WT	590 Super N
Engine	FPT F5HFL413C	FPT F5HFL413C	FPT F5HFL413C	FPT F5HFL413B
Displacement/Cylinder	207 in ³ . (3.4 L) /4	207 in ³ . (3.4 L) /4	207 in ³ . (3.4 L) /4	207 in ³ . (3.4 L) /4
Emissions certification*	Tier 4 Interim (CEGR/DPF)	Tier 4 Interim (CEGR/DPF)	Tier 4 Interim (CEGR/DPF)	Tier 4 Interim (CEGR/DPF)
Gross hp (kW) @ 2200 RPM	85 (63.4)	97 (72.3)	97 (72.3)	110 (82)
Net hp (kW) @ 2200 RPM	78 (59)	95 (71)	95 (71)	108 (81)
Maximum net torque – lb.-ft. (N-m) @ 1400 RPM	268 (364)	333 (452)	333 (452)	338 (458)
Operating weight, 4WD – lb. (kg)	17,454 (7 917)	17,226 (7 814)	19,985 (9 065)	20,458 (9 280)
Maximum travel speed – fwd. – mph (kph)	24.3 (39.1)	23.6 (38.0)	23.0 (37.0)	24.2 (38.9)
System flow – gpm (L/min)	28.5 (108)	41 (155.2)	41 (155.2)	43 (162.6)
Backhoe bucket force – lbf (kN)	11,334 (50.4)	14,223 (63.2)	14,831 (65.9)	15,652 (69.6)
Backhoe boom lift capacity @ groundline	2,858 (1 297)	3,513 (1 594)	2,904 (1 317)	3,160 (1 433)
Loader bucket breakout force – lb. (daN)**	11,312 (5 032)	11,658 (5 288)	11,674 (5 193)	13,717 (6 102)
Loader lift capacity @ full height – lb. (kg)	6,803 (3 086)	7,044 (3 195)	8,425 (3 822)	8,325 (3 776)

DIMENSIONS

Height to top of cab	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)
Bucket hinge pin height – fully raised	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)
Overall operating height – fully raised	13 ft. 9 in. (4.18 m)	13 ft. 9 in. (4.18 m)	13 ft. 11 in. (4.24 m)	13 ft. 10 in. (4.22 m)
Dump angle @ full height	47°	47°	45°	45°
Dump clearance @ full height, 45° dump	8 ft. 10 in. (2.69 m)	8 ft. 10 in. (2.69 m)	8 ft. 11 in. (2.72 m)	9 ft. 1 in. (2.77 m)
Dump reach @ full height, 45° dump	31.5 in. (801 mm)	31.5 in. (801 mm)	27.0 in. (685 mm)	27.8 in. (707 mm)
Bucket rollback @ groundline	42°	42°	40°	41°
Digging depth below grade – bucket flat	6.1 in. (155 mm)	6.1 in. (155 mm)	6.1 in. (155 mm)	5.9 in. (150 mm)
Wheelbase	84.5 in. (2.15 m)	84.5 in. (2.15 m)	84.5 in. (2.15 m)	84.5 in. (2.15 m)
Reach from front axle centerline – bucket on ground	6 ft. 1 in. (2.08 m)	6 ft. 8 in. (2.09 m)	6 ft. 8 in. (2.05 m)	6 ft. 5 in. (1.99 m)
Turning radius at curb, 4WD, brakes applied	11 ft. 4 in. (3.45 m)	11 ft. 0 in. (3.36 m)	12 ft. 0 in. (3.65 m)	12 ft. 6 in. (3.81 m)
Backhoe dig depth	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)

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

*CEGR = Cooled Exhaust Gas Recirculation; DPF = Diesel Particulate Filter.

**Machine equipped with a 4-in-1 bucket.



BUILDING A STRONG CASE

Already in high gear with the arrival of founder J.I. Case's portable steam engine in 1869, we found ourselves at the heart of the road construction boom of the early 1900s. The path was set. Today, CASE is a game changer in construction equipment, financing, parts and service.

Revolutionary is nothing new to CASE, as innovations like the integrated backhoe loader (1957), Ride Control™, over-center boom design and ProCare have shown. It's this ingenuity and spirit that fuels our ongoing pursuit of building industry-leading performance and productivity into every machine throughout our full line of light to heavy equipment.

All of this is backed by a portfolio of more than 10,000 OEM, REMAN and Gold Value parts, more than 350 North American dealer locations, and unmatched financial and insurance services that ensure the best support is always within reach. When all is said and done, our strength is only as solid as the machines we engineer, the support and service we give, and most importantly, the vote of confidence CASE customers have with every bit of it.



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.

To learn more about CASE or for attentive customer service, visit your nearest dealer, call 1-866-54-CASE6 or visit us online at CaseCE.com.





CaseCE.com



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**SAFETY™
NEVER HURTS**

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.

NOTE: All engines meet current EPA emissions regulations.

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Contains 10%
post-consumer fiber

IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment
is biodiesel-friendly.