

CASE
CONSTRUCTION

M SERIES 3 LOADER / BACKHOES

580 M • 580 Super M • 580 Super M+ • 590 Super M • 590 Super M+



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Everybody wants to say they're No. 1, but when you get right down to it, there's only one leader of the pack. More than 50 years ago, Case built the world's first fully integrated tractor loader/backhoe warranted from the factory and designed specifically for construction applications.

And our leadership continues with the M Series 3.

Easy, precise operation

The best backhoe operators tell us it's all about precision, feel and control. Case-exclusive PCS™ (PRO CONTROL SYSTEM) delivers precise, superior control with exceptional speed. Plus, optional pilot controls keep the "feel" that's so important, while making operation easy and intuitive. This combination makes novice operators good and good operators great.

Proven power—and fuel economy

Tier III-certified Case engines on the M Series 3 loader/backhoes deliver the power to get the job done while also providing maximum fuel efficiency and reducing emissions. That's good for the environment—and your bottom line.

Quiet, comfort and room to spare

You can get more done when you're in a comfortable environment. That's why we've paid special attention to the details in the cab. And that's why you'll find the Case cab the quietest in the industry. More than that, all the controls are positioned for ease and comfort. Floor-to-ceiling glass gives you a clear view to the working ends of the machine. And there's legroom and headroom to spare for any operator.

Ease of service for increased uptime

We know that the easier it is to service your equipment, the more likely it will get done. That's why Case M Series 3 loader/backhoes feature a flip-up hood, external sight gauges and grouped service checks. That means more uptime.

Best standard warranty in the business

We've been building the world's best loader/backhoes for more than 50 years, and we stand behind our machine with the industry's best warranty: two years or 2,000 hours on the power train, and five years on the boom. Now, that's peace of mind.



580 M





580 Super M



580 Super M+



590 Super M



590 Super M+



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Easy, precise operation

Veteran loader/backhoe operators will tell you they like to “feel” what they’re digging. They love the precision and speed they get from Case backhoes. And we’re constantly improving on a good thing.

Best backhoe “feel”

Case M Series 3 loader/backhoes feature Case-exclusive PCS™ (PRO CONTROL SYSTEM) which allows fast positioning of the bucket with pinpoint accuracy. The anti-rebound swing system cushions the boom, while minimizing over-swing. The result is full buckets and fast cycle times.

Optional Case pilot controls, which are infinitely adjustable, provide the ultimate in operator comfort and easy, intuitive operation. And, in fact, the operator can choose excavator or backhoe-style operation, depending on personal preference. New on the Case pilot controls is a one-touch idle button that allows you to idle down and go back to the previous RPM setting with a simple touch.

Swing into loader operation fast, with the auto-up stabilizers available with Case pilot controls. This lets you raise the stabilizers while swiveling the seat so you can move into another operation while the next operator is still getting turned around.

Fast loader cycle times

On the M Series 3 models, you’ll also appreciate the extra productivity you gain with the ergonomically designed loader control handle and hydraulic self-leveling through the lift cycle for maximum load retention and control.

Ride Control™, standard on the Super M+ models and an option for all other M Series 3 machines, smooths the ride, which increases load retention—and operator comfort.





Proven power—and fuel economy

The heart of any machine is its engine, and Case engines are built for endurance and performance. The new Case Family IV engines on the M Series 3 not only meet Tier III emissions certification, they also provide even better fuel efficiency.

Electronic fuel injection on the 580 Super M, 580 Super M+, 590 Super M and 590 Super M+ boosts fuel efficiency for those models. And, axial piston pump, pressure compensated, load-sensing hydraulics on the 580 Super M+ and 590 Super M+ models deliver up to 15-percent greater fuel efficiency. That's a potential savings of 500 gallons of fuel per year.

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Pro Control System

The next-generation Case PCS™ (PRO CONTROL SYSTEM) provides precise control and eliminates over-swing for faster cycle times and accurate placement of buckets or attachments. Yet, the operator can still “feel” buried objects. An anti-rebound feature cushions quick stops.



Increased fuel efficiency

The new Case Tier III engines deliver proven Case performance while increasing efficiency. Electronic fuel injection and cold-start capability are standard on the Super M and Super M+ models.



Engineering excellence

Case packs 50 years of engineering excellence into its backhoe design. The narrow frame provides outstanding visibility, while floating pins and triple bushings provide exceptional durability. The trademark over-center design improves balance, transport and roading.



Standard SAHR brake

New low-effort power-assisted brakes provide greater stopping power. An SAHR (spring-applied, hydraulic-release) parking brake is now standard on all models.



More pushing power

The new axle provides up to 15 percent more pushing power in first and second gears, meaning you get a fuller bucket more quickly so you can finish the job faster.





Optimum visibility

Floor-to-ceiling, curved glass and the Case trademark narrow backhoe boom provide optimum visibility to the trench or work area.



Maneuverability

Case-exclusive Comfort Steer cuts steering movement in half for increased loader performance and maneuverability.



Electronic auxiliary hand control

The electronic auxiliary hand control is now a large dial that is easy to adjust, even with gloves on.



Precise control of attachments

A new electronic auxiliary control for the loader provides precise, easy control of attachments.



Best-in-class serviceability

Already best-in-class serviceability is even better with features like swing-out coolers, brakes that can be accessed without removing the axle, and single-level axle lube check and fill.



Multiple configurations

Case offers multiple configurations and many options so you can customize your equipment to meet your jobsite needs.



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Quiet, comfort and room to spare

As soon as you close the cab door, sounds from outside fade. At 72 dBA, the Case cab is the quietest in the industry. Couple that with the sheer roominess, ultra-comfortable seat and infinitely adjustable pilot controls, and you have a work environment that approaches the feel of a luxury automobile.

That extra measure of comfort not only feels good, but it also boosts your operator productivity.

Superior visibility

Another key to productivity is having excellent visibility to the buckets and the work area. And the Case cab features curved floor-to-ceiling glass that provides a panoramic view to the loader, the backhoe and the sides.

Too hot or too cold? Climate control in the Case cab is outstanding, with strategically positioned heating and air conditioning vents. And on days when you're happy with the weather outdoors, you can choose from several window adjustments to let in as much or little natural ventilation as you want.



Ease of service for increased uptime—and profits

The Case M Series 3 loader/backhoes feature several new serviceability points that make maintenance costs the lowest in the industry. For starters, a new electronic instrument cluster provides diagnostic and service reminders to help keep your machine up and running at peak efficiency.

Even faster access

New swing-out coolers provide faster, easier service access. In addition, new axles with outboard-mounted wet disc brakes allow servicing of the brakes without removing the axle. Talk about time-saving! And the axles are also engineered to be checked and filled from a single lube point.

Add these improvements to the one-piece flip-up hood, grouped sight gauges for coolant and hydraulic fluid, spin on filters for fast and clean oil changes, and you are saving time every single day on routine and scheduled maintenance.



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Increase productivity with attachments

Case wrote the book on attachment versatility. In fact, we were the first manufacturer to offer a hydraulic quick coupler on our loader. We're the only manufacturer to offer an integrated hydraulic quick coupler on our backhoe, and we have engineered that quick coupler so there is no loss of breakout force.

Hydraulic quick couplers let the operator exchange buckets and many attachments without ever leaving the cab. This means you can change buckets with ease or switch from a bucket to forks or other attachment and back again in seconds.

Productive on both ends

More than two dozen loader attachments are available for Case M Series 3 loader/backhoes, including forks, rakes, brooms and augers.

Case also offers a wide selection of attachments for our backhoes, including a variety of buckets, hammers, augers, tampers and more.



Loader Coupler



Brooms



Forks



Rakes



Backhoe Coupler



Augers



Hammer



Choice of buckets

You can count on Case

You can count on Case and your Case dealer for full-service solutions—productive and reliable equipment, expert advice, flexible financing, genuine Case parts and fast service. We're committed to providing you with the ultimate ownership experience.



Case pride

You can take pride in the Case name displayed on your equipment because you know it has staying power. Case and your Case dealer are here for you, not only when you buy the machine, but also after you put 1,000 or 10,000 hours on it.

A rich, proud history

Case Construction Equipment's manufacturing heritage spans more than 165 years. Growing from J.I. Case's innovations with steam-powered agricultural equipment in the late 1800s, Case developed road-building equipment that helped create early 20th century streets and highways across the world.

Celebrating a tradition of innovation

The current era of Case equipment dates to the 1950s and the invention of the first integrated loader/backhoe made and warranted by one manufacturer. We have continued beyond that achievement with decades of product innovations. Our world-class product line includes more than 15 types of equipment and more than 90 models.

Coast-to-coast customer support

Case equipment is sold and serviced by more than 350 dealer locations across North America. No matter where you work, we're here to support and protect your investment in Case equipment.

To locate a Case dealer near you or find out more about Case equipment, go to www.casece.com. If you are looking for answers about Case equipment or service, call 1-866-54CASE6. If you are looking for flexible finance options, your Case dealer is here to meet your needs. It all adds up. You can count on Case.



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580	M	Super M	Super M+
Engine	79 net hp (59 kW)	91 net hp (68 kW)	95 net hp (71 kW)
Backhoe dig depth	14 ft 3 in (4.34 m)	14 ft 5 in (4.39 m)	14 ft 10 in (4.65 m)
Backhoe bucket force	11,212 lbf (49 873 N)	12,821 lbf (57 031 N)	12,821 lbf (57 031 N)
Loader	6,182 lb (2804 kg)	6,182 lb (2804 kg)	6,182 lb (2804 kg)
Operating at full weight	16,510 lb (7489 kg)	17,545 lb (7958 kg)	18,128 lb (8223 kg)

590	Super M	Super M+
Engine	108 net hp (81 kW)	108 net hp (81 kW)
Backhoe dig depth	15 ft 11 in (4.85 m)	15 ft 11 in (4.85 m)
Backhoe bucket force	14,718 lbf (65 469 N)	14,718 lbf (65 469 N)
Loader	7,327 lb (3323 kg)	7,327 lb (3323 kg)
Operating at full weight	19,578 lb (8881 kg)	19,578 lb (8881 kg)

Note: All engines meet current EPA emission regulations.

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

IMPORTANT: Case Construction Equipment 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 products and their specifications available in your area.

 **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.

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