

# M

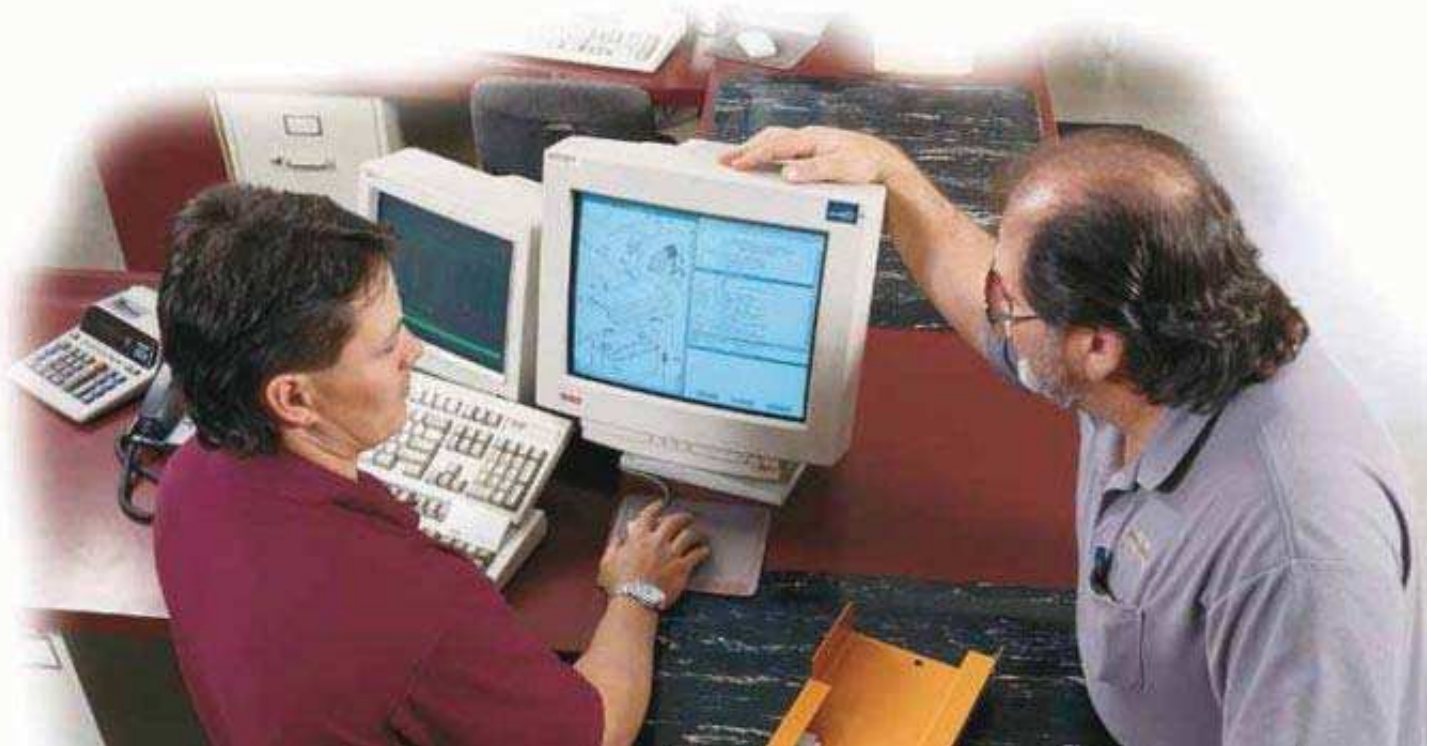
**M SERIES 2  
LOADER BACKHOES**

**CASE**  
PROFESSIONAL PARTNER



# M Series 2

## CUSTOMER SUPPORT



### The Case dealer: Your professional partner

#### Start with world-class Case machinery and attachments

Your Case dealer will help you work smarter and faster by selecting equipment that delivers quality, performance and operator comfort. Your dealer has the knowledge and experience necessary to guide you in choosing the right attachments so you can...

- Work faster with less wear on your equipment
- Reduce the number of machines you need
- Reduce your operating costs

#### Let your Case dealer service your machine on the jobsite

You'll be back in the dirt faster when your Case dealer services your equipment on the jobsite. Advantages include...

- Saving time and the cost of transporting machines to and from your dealer
- Reducing costs due to downtime
- Increasing machine life
- Reducing service staff and stocking fewer parts
- Realizing quick parts delivery through the Case global parts network

#### Manage your equipment better

Case Plus Pac™ service maintenance and the machine Protection Plus Pac™ can be customized to meet your needs. Add the GlobalTRACS® Fleet Management Communications System to complete your program. GlobalTRACS gives you the information to manage your fleet better while protecting it against theft. It's all waiting for you at your local Case dealer.



# OPERATOR ENVIRONMENT

## Comfortable and productive

Operator comfort and visibility are key factors in maximizing productivity and profitability. The operator environment in the Case M Series 2 Loader Backhoe features modern styling, with a quiet, spacious work area for comfortable, precise operation all day long.

It starts with wide access entry and continues with extra leg room. Expansive tinted and curved glass on cabs prevents distortion and reduces sound level for clear comfortable visibility to the loader and backhoe operations. Heater vents are directed low to warm feet in cold weather, while air conditioning vents direct cool fresh air around the operator's head.

The large cab increases operator comfort during a long workday and provides extra legroom when rotating the seat from loader to backhoe operation. Add an optional right-hand door for access from either side. A window in the door can be latched open in a vent position or fully opened, and the 3-piece rear window gives an operator more ventilation options.

Cab models can be equipped with an optional cloth air-suspension seat with armrests for ultimate all-day comfort. And the deluxe cab package lowers sound levels to 72 dB(A) for a quieter ride.

Case Pilot Controls, available on all models, feature exclusive infinite fore/aft position adjustment and infinite lateral adjustment. Exclusive height adjustable wrist rests and thumb-operated proportional control for the Extendahoe provide relaxed fingertip operation. In cab pattern change switch allows matching backhoe or excavator control preference for increased productivity.

Optional auto up stabilizer control allows the operator to raise the stabilizers while swiveling the seat to the loader position for faster turn-around and increased productivity.



# M Series 2

## POWERTRAIN

### Proven power — right when you need it

Case Family 3 engines have evolved over the years to meet Tier II emission certification and your most demanding expectations.

With a 500-hour oil change interval, dual element air cleaner, and optional aspirated air cleaner, these engines are smooth, high torque, fuel-efficient powerhouses. Increased displacement provides added lugging ability for faster loader and backhoe cycles.

The Power-Shift versions of the Super M models have a viscous fan drive that operates only when it's needed, resulting in maximum net horsepower for your toughest tasks.



Whether you choose the four-speed synchro-mesh transmission or the optional Power-Shift, with automatic up/downshift on 4WD Super M models, you'll appreciate the smooth, easy operation of a Case M Series 2 Loader Backhoe.

The lubed-for-life U-joints mean less maintenance and more productivity from your loader backhoe. For maximum protection, a heavy-duty steel weldment guards the in-line driveshaft on four-wheel-drive machines. Four-wheel-drive can be engaged on the fly and disengaged with the push of a button to help reduce tire wear.

On Power-Shift equipped machines, select the maximum travel speed desired. The transmission automatically shifts up or down to match travel speed to load requirements. The result is easier, more productive operation.

### ENGINE PERFORMANCE

580M	76 net hp (57 kW)
580M turbo	80 net hp (60 kW)
580 Super M	90 net hp (67 kW)
580 Super M+	90 net hp (67 kW)
590 Super M	98 net hp (73 kW)



# SERVICEABILITY

## Maximize uptime to maximize profit

When machines are down for service, they're not on the job making money. Fast and easy serviceability is designed into each Case M Series 2 Loader/Backhoe. Flip-up hood, visual checks for engine coolant and hydraulic fluid level, remote lube for axle pivots and permanently sealed and lubricated driveshafts minimize lubrication time. Coupled with spin-on filters to provide fast and clean 500-hour engine oil changes, M Series 2 maintenance costs are the lowest in the industry.

A componentized powertrain makes fast repairs of major components possible. The availability of remanufactured components for engines, torque converters, transmissions and axles keeps repair costs to a minimum.



The M Series has a flip-up one-piece hood for easy access to the engine. Daily service points are conveniently grouped and can be reached from ground level. Designed for long life and superior service ease, Case M Series 2 Loader Backhoes deliver on your investment.



When it's time to change the oil, do it quickly and cleanly with genuine Case parts like the vertical spin-on oil filter.



Features like remote lube points for axle pivots allow quicker daily servicing without crawling under the machine.



Both the hydraulic fluid and coolant fluid levels can be quickly checked by using the external sight gauge for the hydraulic fluid (top photo), and opening the hood to view the fluid level in the coolant reservoir (above).



Poly vee fan belt with automatic tensioner and integrated water pump for maintenance-free cooling.



The hydraulic pump is directly mounted to the transmission with a zero-maintenance spline.

# M Series 2

## M SERIES 2 LOADER BACKHOES



### 580 Super M

The worldwide leader in loader backhoe performance and productivity in the 15 foot class.

### The worldwide leader shows the way

Almost fifty years ago Case defined the loader backhoe market, and spent the better part of five decades refining it. Today, Case is building on our tradition of excellence in loader backhoe engineering and manufacture with features on the M Series 2 line, such as:

- Flip-forward hood for fast, easy service
- The exclusive Pro Control System (PCS™) for superior backhoe control and faster cycles
- Spacious cab design for exceptional comfort and visibility
- Hydraulic loader and backhoe quick-couplers for faster attachment changes from the cab

- High-capacity buckets for maximum productivity
- Bold logo decals that double as safety reflectors
- Durable poly fenders eliminate rust and dent damage while rubber bumpers create an impact-resistant grille
- Large tie-downs make it easy to secure the machine for transport between job sites.
- Bushings in loader and backhoe pivots for long life and low operating costs

In addition, you can still depend on customer-driven features first introduced by Case such as Ride Control, Auto-Shift Power-Shift

transmission, open-center hydraulics, and over-center backhoe design.

You get much more than power and precision from the Case M Series 2 Loader Backhoe... you get the best warranty in the business, unmatched customer support, and a worldwide dealership network.



### 580M

The value leader for the utility and rental markets.





### **580M turbo**

The versatile loader backhoe that delivers extra horsepower for high altitudes and contractors needing increased loader and transport speed.



### **590 Super M**

A smooth, heavy-duty, high-capacity loader backhoe that is ideally suited for road & bridge, utility, and municipal applications.



### **580 Super M+**

The ultimate in operator comfort and performance in high flotation and rough operating conditions, with large diameter tires, limited-slip front differential, wide wheel stance, large capacity buckets, and long stabilizers for 180 degree swing stability.

# M Series 2

## LOADER PERFORMANCE

### More material moved in less time means greater productivity

To make the most of tight deadlines and ever-tightening profit margins, you need a productive (high performance) loader backhoe. Case loaders have more built-in performance features than any other machine on the market!

Long-life bushings in loader pivots make accurate grade control possible. Inline, dual bucket cylinders provide more break-out force with less stress. Dual linkage enables lengthy material such as culverts or pipe to be carried across the linkage. Trunion-mounted bucket cylinders provide powerful roll-back and rapid dump for fast loader cycle times.

Choose from an assortment of loader buckets to meet your particular needs, including general purpose,

A clutch disconnect button on the loader control lever disengages the transmission to concentrate engine power on the hydraulics for fast loading cycles.



For ground-grabbing traction in slippery conditions, lock the differential by depressing the engagement button on the loader control lever.

4 IN 1® and scrap grapple designs. All Case buckets feature lift hooks and pre-drilled holes for reversible, bolt-on cutting edges. Bolt-on cutting edges come standard on 580 Super M and 590 Super M loader buckets.

You also get automatic hydraulic self-leveling on the lift cycle to maintain control of the load. For maximum bucket load retention and operator comfort, order your M Series 2 machine equipped with Ride Control.





# BACKHOE PERFORMANCE

## Speed, precision and power: the M Series 2 Loader Backhoe has it all

The M Series 2 backhoe delivers all the power you need with fine control. This productive combination of speed and precision gives you the optimum backhoe performance you expect from Case.

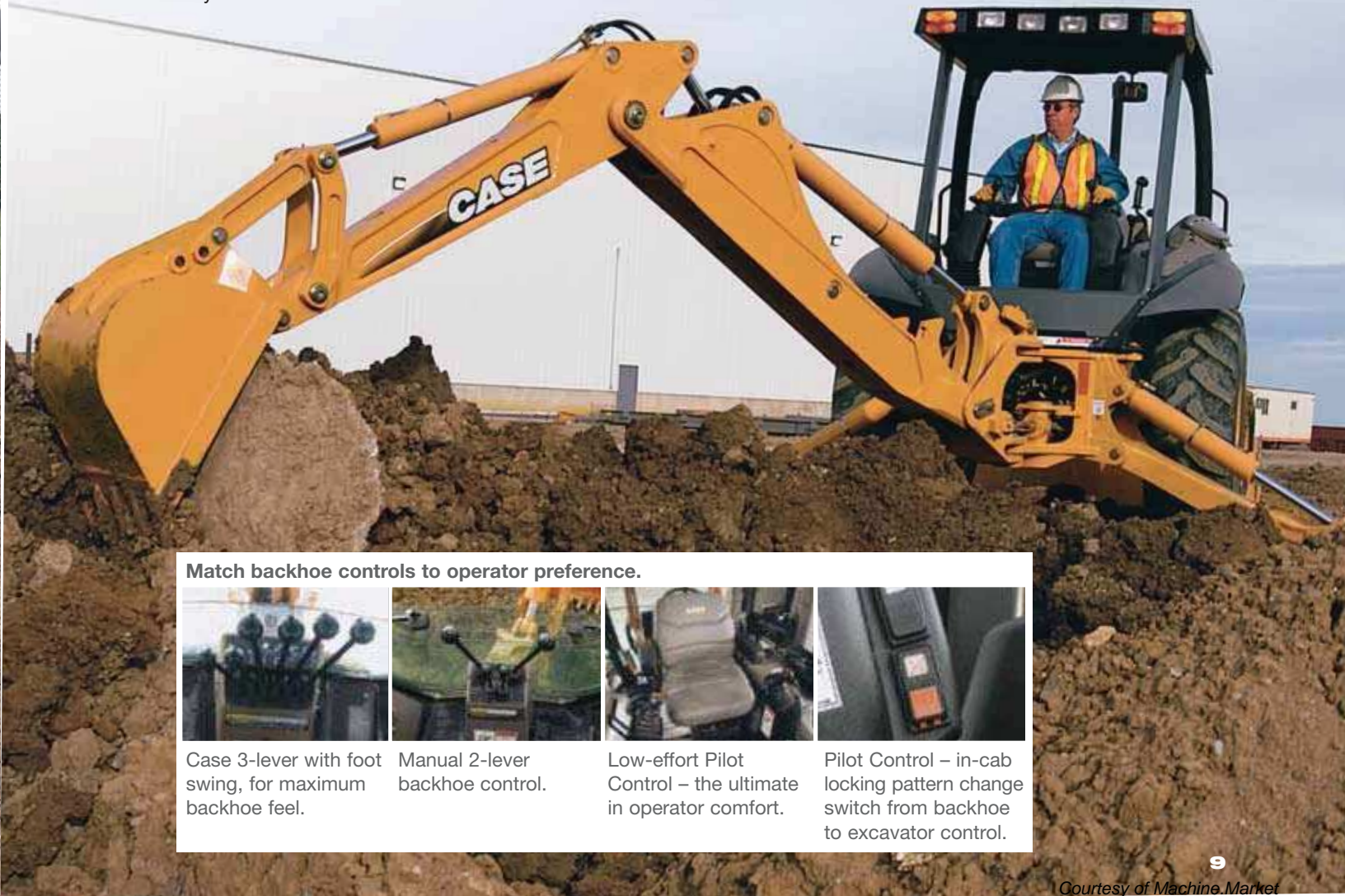
The exclusive Pro Control System lets you feel your way through backhoe functions and allows you to quickly position the bucket with pinpoint accuracy. The anti-rebound swing system cushions the boom to minimize over-swing, vibration and spillage when stopping suddenly. You'll enjoy faster cycle times and appreciate the added feeling of control.

To help finish the job quickly and efficiently, large trenching buckets offer more capacity, moving more material with each cycle. An optional backhoe hydraulic quick-coupler makes switching bucket sizes or other attachments fast and simple without the operator ever leaving the cab.

The proven Case over-center backhoe design offers a smoother ride when roading or traveling around the job site. It also helps the backhoe lift heavy loads and provides superior stability for climbing grades, even with a hammer mounted on the backhoe. Sturdy ductile iron stabilizers give the machine sure footing on a variety of surfaces. Pinned in position, combination, flip-over pads ensure protection on improved surfaces or provide the stability necessary for maximum crowd force in soil.



The M Series 2 Loader Backhoe provides exceptional craning power even when the Extendahoe® dipperstick is fully extended. The rugged external slide design reduces dirt ingestion and extends service life.



### Match backhoe controls to operator preference.



Case 3-lever with foot swing, for maximum backhoe feel.



Manual 2-lever backhoe control.



Low-effort Pilot Control – the ultimate in operator comfort.



Pilot Control – in-cab locking pattern change switch from backhoe to excavator control.

# M Series 2

## LOADER ATTACHMENTS

### Versatility, Utilization, and Productivity

In addition to their industry-leading productivity with the loader or backhoe, the Case M Series 2 Loader Backhoes are outstanding when used as tool carriers. Fast and maneuverable, they are adaptable to work with any attachment. Mechanical or hydraulic quick couplers facilitate speedy tool change for timely job completion.

With more than 25 attachments to choose from, you can match a Case M Series 2 Loader Backhoe to any application need.



### Loader Coupler

From buckets and brooms to rakes and forks, attach whatever the job calls for in a matter of seconds with the hydraulic quick-coupler and keep the job moving – all from the comfort of the cab.



**Forks**



**Rakes**



**Brooms**



# BACKHOE ATTACHMENTS

## Buckets, hammers, you name it...

The integrated backhoe hydraulic quick coupler provides fast, efficient bucket and attachment changes, increasing versatility, saving time and maximizing productivity. The hydraulic coupler option is controlled by the operator from the cab.



**Hydraulic Quick Coupler**



**Hammers**



**Augers**

Choose from uni-direction or dual-direction flow. Uni-direction flow provides maximum flow control to match everything from hand tools to high-capacity hammers. Flow is fingertip controlled on left pilot control joystick. Dual-direction auxiliary hydraulics are used for attachments such as augers, thumbs and swivel buckets.



## M SERIES 2 LOADER BACKHOE QUICK SPECS

### 580M

Engine	76 net hp (57 kW)
Backhoe dig depth	14 ft 3 in (4.34 m)
Backhoe bucket force	11,212 lbf (49 873 N)
Loader lift	6,182 lb (2804 kg)
Operating weight	16,000 lb (7258 kg)

### 580M turbo

Engine	80 net hp (60 kW)
Backhoe dig depth	14 ft 3 in (4.34 m)
Backhoe bucket force	11,212 lbf (49 873 N)
Loader lift	6,182 lb (2804 kg)
Operating weight	16,000 lb (7258 kg)

### 580 Super M

Engine	90 net hp (67 kW)
Backhoe dig depth	14 ft 5 in (4.39 m)
Backhoe bucket force	12,821 lbf (57 031 N)
Loader lift	6,182 lb (2804 kg)
Operating weight	17,000 lb (7727 kg)

### 580 Super M+

Engine	90 net hp (67 kW)
Backhoe dig depth	14 ft 5 in (4.39 m)
Backhoe bucket force	12,821 lbf (57 031 N)
Loader lift	6,182 lb (2804 kg)
Operating weight	18,000 lb (8165 kg)

### 590 Super M

Engine	98 net hp (73 kW)
Backhoe dig depth	16 ft 4 in (4.98 m)
Backhoe bucket force	14,718 lbf (65 469 N)
Loader lift	7,327 lb (3323 kg)
Operating weight	19,500 lb (8864 kg)

NOTE: All engines meet current EPA emission regulations.

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

**IMPORTANT:** CNH America LLC 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.



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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