

Challenger LOADERS

Challenger[®] LOADERS



We're up to
The Challenge

ML70B & ML90B SERIES
LOADERS



“It’s about time somebody built a loader that will handle the job and still let me see what I’m doing.”

Challenger Loaders take productivity to new heights

One look at the Challenger® ML “B” series loaders and you’ll never look at front-end loaders the same again. Designed with the professional operator in mind, the new “B” series loaders provide optimum functionality, speed of cycle times, ease of connection and longer service life.

Available in two different series, they also offer a balance of strength and visibility not found on other units. Choose from six self-leveling models in the ML90B Series; or consider the ML70B Series, for non-self-leveling performance that’s every bit as serious.

A Model For Every Tractor

Challenger Tractor Model	Compatible Loader Model
All MT300B Series	ML72B or ML92B
MT425B	ML73B*, ML74B, ML93B* or ML94B
MT445B & MT455B	ML73B*, ML74B, ML93B* or ML94B
MT465B	ML74B or ML94B
ML525B, MT535B & MT545B	ML77B or ML97B
MT555B, MT565B & MT575B	ML98B
All MT600B Series	ML99B

* Max 320/85 R24 front tires.

Structural Strength

The exceptional strength and torsional rigidity of the new “B” series loaders starts with a solid frame constructed from U-shaped, steel channels that are fitted together and welded on the inside for a cleaner profile.

Equally important, the compression-molded cross tube is structurally reinforced with a long support plate and positioned just above the tool carrier for improved strength, forward visibility and better headlight clearance.

Other features that add to the ML “B” series’ durability, stability and longevity include:

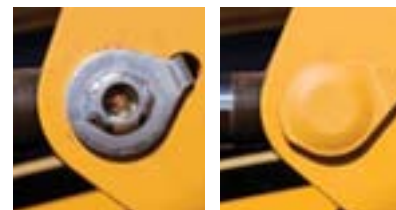
- A long and strong cross tube support plate is located on the inside of each loader arm.
- Strategic bends in the bearing box mounting plates increase structural strength and allow the use of shorter pins for better reliability.
- All the welded joints on the double U-profile are facing in toward the tractor, which further contributes to the clean lines in the loader arm design.



- The mechanical self-leveling linkage is contoured to fit over the frame for increased visibility.
- Short and stronger 40 mm galvanized pivot pins include rigid locking collars to prevent them spinning in the frame.
- Replaceable bushings throughout.



- Extra pin reinforcement rings have been added on ML77B, ML97B, ML98B and ML99B models to prevent wear on the frame of the loader.
- Parking stands lock into the stored position via a spring-loaded mechanism.
- Grease fittings are easily accessible and covered with rubber caps to prevent grease from getting on the hood or windows when pressure washing the machine.



- An overlapping knee plate wraps around both sides of the loader beam for extra strength and reliability on the bend in the loader frame.
- All components are treated and degreased prior to painting and final assembly.

STRENGTH



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The Challenge

Strength & Support

second to none

Corporate Stability

The strength of Challenger ML "B" series loaders goes well beyond alloy steel and baked enamel. It comes from a partnership that began in March 2002, when AGCO acquired the highly respected Challenger line of track tractors from Caterpillar and began expanding it into a full line of serious farm machinery. Today, the Challenger brand includes a rugged line of wheel and track tractors from 23 to 570 engine horsepower; a high-quality family of hay equipment, and three of the most productive and reliable combines on the market.

Equally important, we partnered with Caterpillar and the Cat dealer organization to develop the highest level of customer satisfaction in the world. Nobody commands more respect for their integrity, in-field service and parts support than the Cat dealer network. It's little wonder that Challenger equipment has become the prominent choice of professional and commercial producers whose output represents 75 percent of the world's commodity production.

Solid Mounting

Challenger ML "B" series loaders offer the perfect blend of easy mounting and solid attachment, thanks to a rugged subframe designed specifically for your Challenger tractor. In effect, the tractor retains the balance, visibility, maneuverability and performance you've come to expect, even with the loader attached.



Mounting Is A Snap

You've never seen a tractor loader that is as quick and simple to mount or remove as the Challenger ML "B" series loader. The new "Lock and Go™" designation pretty well says it all.

To remove the loader, simply drop the parking stands and pull out and rotate the locking wheel on each side of the unit to secure it in the retracted position. Then, lower the bucket to the ground to raise the loader off the subframe. Unhook the hydraulic connections and back away.

When reattaching the loader, simply drive into the loader and reverse the procedure. When the subframe and the loader are aligned, the spring-loaded pins automatically rotate and lock the loader into place.

Faster Hydraulic Hook-Ups

Loader mounting and removal can be even faster and easier with Challenger's optional hydraulic multi-coupler, which groups all hydraulic couplers into a single block coupling. Simply line up the coupler, engage the locking handle and you're ready to go.



State-Of-The-Art Hydraulics

The hydraulic system on Challenger's new ML "B" series loaders is not only unique... it's patented. The heart of the system is the innovative Q-Compact Valve, which is protected by the cross tube and hidden under a cover.

Not only does the Q Compact Valve connect all functions at one point; but all oil flow leaves from one centrally located point. As a result, loader movement is always synchronized between the left and right sides, regardless of the load, oil temperature or hydraulic pressure.

Finally, all ML "B" series loaders utilize ozone-resistant hydraulic hoses—instead of tubing—that are routed inside the beams. The benefits include:

- Hoses can't be damaged by debris or obstructions... or by exposure to the sun.

- O-Ring connections on all hoses makes it quick and simple to replace a broken hose. The swivel connection also keeps hoses from twisting when under load giving a longer hose life.
- Shock valves are integrated into the system for circuit protection.
- The spool for a third diverter valve high - pressure/high - flow service is already plumbed into the system and requires only the addition of a solenoid.

A Softer Ride

Reduce the amount of stress placed on the loader frame and tractor front axle, while increasing your own comfort, with the option of Challenger's SoftDrive hydra-cushion suspension

system (Optional on the ML "B" series loaders.) Thanks to the plug-in feature of the Q Compact Valve, SoftDrive—which incorporates gas-charged accumulators connected to the lift cylinders—can even be added at any time.

Joystick Control

Work like a pro, no matter the job, thanks to simple joystick control. Standard configurations utilize the TouchMaster multi-directional joystick on Challenger MT500B Series tractors. For other models, Challenger offers an ergonomic, multi-directional joystick control valve that includes a float position and buttons for a third hydraulic function.



Full Engine Access

Every Challenger ML70B and ML90B loader allows the tractor hood to be fully opened, giving the operator access to the engine, radiator and filters. There's no need to remove the loader for routine maintenance.

Advanced Simplicity

makes changing implements fast and easy

Fast Implement Attachment

Implement hook-up is fast and simple on all Challenger® ML “B” series loader models. Simply raise the tool carrier to engage the toolbar with the hooks on the bucket or attachment and roll the linkage back until the locking pins automatically release. Unhooking an attachment is just as easy. One lever disengages both locking pins at once and secures them in a disengaged position.

Challenger’s Implement System

With the right attachment, your Challenger tractor and loader—which operate as an integral unit—can do everything from moving snow, gravel or grain to loading bales or pallets to digging and backfilling. In the meantime, a standard two-position level indicator ensures a precise standard of work, no matter which attachment is used.



• **Pallet forks**
Choose from two models rated at 3,500 and 5,500 lbs. capacity.



• **Log grab (for pallet forks)**



• **Series H material buckets**
Designed for agricultural, municipal and contractor duty, these strong, universal buckets feature extra reinforcement between the back and base. They’re also available in five sizes from 23 to 36.4 cu. ft.



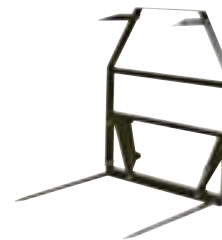
• **Series HV light material/snow buckets**
Series HV buckets are perfect for the operator who needs to efficiently move high volumes of light material. Capacities range from 40.9 to 65.3 cu. ft.



• **Grapple**
Available in six models from 83 to 102 inches in width, and with or without teeth, the Maxi Grapple is rugged and reliable to handle products from hay to debris materials. Each model is also available with an optional backscreen.



• **Series HD heavy-duty material buckets**
Intended for the hardest and most demanding tasks, HD Series buckets feature additional reinforcement and larger cutting edges. They’re also available in four sizes from 25.4 to 36.4 cu. ft.



• **Big Bale Fork with backstop**



• **QuadroGrip**
Similar to the FlexiGrip, the QuadroGrip is the perfect implement for transporting and stacking big square bales, both wrapped and non-wrapped. However, it’s equally adept at handling round bales, thanks to independent clamp arms that adjust from 24 to 78 inches.



• **Series HT construction tooth buckets**
Available in three sizes from 23 to 29 cu. ft., these buckets feature the same solid design as the Series H buckets, but are equipped with welded teeth.



• **3-point hitch counter weights**



• **FlexiGrip**
Available in two sizes to handle bales to 63 (1.6 M) and 79 (2.0 M) inches in diameter, the FlexiGrip is ideal for handling round bales wrapped in plastic. The grip arms are constructed of round tubing to prevent tears or snags and are hydraulically operated for easy pickup and release.

Non-Self-Leveling Loader

Model	72B	73B	74B	77B
Lift height to pivot pin in (mm)	126 (3200)	138 (3505)	148 (3759)	167 (4241)
B Lift height under level bucket in (mm)	116 (2946)	128 (3251)	138 (3505)	157 (3988)
Lift capacity max lift height 31.5" forward of pivot pin lbs (kg)	2090 (948)	2530 (1147)	3190 (1446)	4070 (1846)
Lift capacity 59" lift height 31.5" forward of pivot pin lbs (kg)	2530 (1147)	2860 (1297)	3630 (1646)	4510 (2045)
Lift capacity ground level 31.5" forward of pivot pin lbs (kg)	2640 (1197)	3080 (1397)	3850 (1746)	4730 (2145)
Lift capacity max lift height at pivot pin lbs (kg)	3300 (1496)	3850 (1746)	4840 (2195)	5720 (2594)
Lift capacity 59" lift height at pivot pin lbs (kg)	3740 (1696)	4400 (1995)	5500 (2494)	6380 (2893)
Lift capacity ground level at pivot pin lbs (kg)	4180 (1896)	4840 (2195)	5940 (2694)	6820 (3093)
Max Rollback force 31.5" out from pivot pin lbs (kg)	4070 (1846)	4070 (1846)	5940 (2694)	10560 (4790)
A Bucket Dump Angle	55°	59°	52°	52°
C Bucket Crowd Angle	41°	43°	44°	44°
D Bucket Dump Angle	150°	146°	140°	140°

Per ASAE standard 301.3

Self-Leveling Loader

Model	92B	93B	94B	97B	98B	99B
Lift height to pivot pin in (mm)	126 (3200)	138 (3505)	148 (3759)	167 (4241)	177 (4495)	187 (4750)
B Lift height under level bucket in (mm)	116 (2946)	128 (3251)	138 (3505)	157 (3988)	167 (4241)	177 (4495)
Lift capacity max lift height 31.5" forward of pivot pin lbs (kg)	2530 (1147)	2640 (1197)	3410 (1546)	4400 (1995)	4620 (2095)	4950 (2245)
Lift capacity 59" lift height 31.5" forward of pivot pin lbs (kg)	2970 (1347)	3080 (1397)	3850 (1746)	4840 (2195)	5170 (2345)	6160 (2795)
Lift capacity ground level 31.5" forward of pivot pin lbs (kg)	3190 (1446)	3300 (1496)	4180 (1896)	5060 (2295)	5500 (2494)	6600 (2994)
Lift capacity max lift height at pivot pin lbs (kg)	3190 (1446)	3300 (1496)	4180 (1896)	5060 (2295)	5170 (2345)	5610 (2544)
Lift capacity 59" lift height at pivot pin lbs (kg)	3630 (1646)	3740 (1696)	4730 (2145)	5610 (2544)	5940 (2694)	7150 (3243)
Lift capacity ground level at pivot pin lbs (kg)	3850 (1746)	3960 (1796)	5060 (2295)	5940 (2694)	6270 (2844)	7700 (3493)
Max Rollback force 31.5" forward of pivot pin lbs (kg)	4180 (1896)	4180 (1896)	6160 (2795)	10560 (4790)	10560 (4790)	10560 (4790)
A Bucket Dump Angle	55°	58°	59°	53°	52°	53°
C Bucket Crowd Angle	41°	45°	43°	44°	43°	41°
D Bucket Dump Angle	150°	146°	147°	140°	141°	144°

Every Challenger Purchase

comes with World-Class commitment

When you purchase a Challenger product, you're buying a lot more than a piece of farm machinery. You're purchasing the Challenger commitment to quality and service.

If you haven't already done so, take a close look at the Challenger line-up at your local Cat dealership. You'll quickly realize that it's built to the highest standards of quality in terms of components and construction, as well as fit and finish.

But the Challenger customer commitment to its customers extends well beyond steel and rubber. Consider just some of the benefits of being a Challenger customer:

Long-Term Challenger Support

In addition to bringing new thinking to farm equipment, the Challenger brand brings a whole new concept to sales and service through Cat® dealers. It is our biggest difference and our

greatest strength. And it may be the reason your operation could become more profitable with the assistance of Challenger equipment.

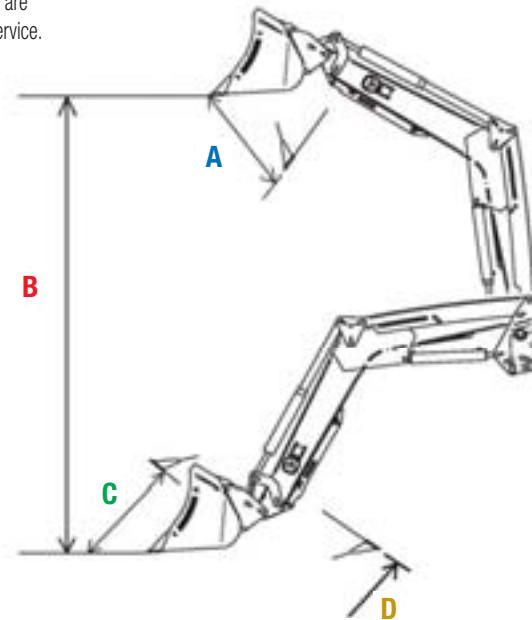
World-Renowned Dealers, World-Class Service

Downtime is rarely scheduled and never convenient. Fortunately, when you buy Challenger equipment you get the backing and support of the legendary network of Cat dealers... who take downtime seriously. For nearly 100 years, Cat dealers have been keeping construction, mining, roadwork and just about every type of heavy-machine equipment in the world up and running... 365 days a year, day and night, under the most adverse conditions.

If they can handle on-site repair of a 20-ton earthmover, does it really make sense to buy a tractor from a dealership that performs all its

service in the shop? Cat dealers are second to none in on-location service. Plus, their factory-trained technicians work as hard at preventing problems as they do at repairing them.

With more mobile service trucks loaded with more diagnostic equipment than most repair shops, it's little wonder that the new wave of Cat loyalists is coming from the farm.



Standard Equipment

- High tensile, tapered box section frame
- Industrial grade hydraulic fittings and hoses, Incorporated inside the loader boom
- Compact valve, Equalized oil distribution with incorporated relief valves
- Lock & Go loader/subframe connection system
- Pivots are greasable and include industrial grade galvanized pins and bushings
- Front bumper guard (With subframe sets)
- Powder Painting with corrosion protection
- One-piece main frame arms and compression molded curved cross member
- Quick-attach implement mounting with single-lever locking system
- Double acting, lift and bucket cylinders

Optional Equipment

- 4 and 6 point Quick Release Couplers
- Live 3rd function kit
- Softdrive, ride control system
- Electric diverter valve 3rd function kit
- Full line of heavy-duty attachments
- Rear counter weight for tractor 3-point hitch
- Weld - on hook - set to convert buckets to Challenger quick hitch system
- Deluxe hose set with the ability to shut off the loader from a switch in the cab and work the rear remotes or vice versa



Cat[®] dealers and service world-renowned dealers, world-class service

In addition to bringing **new thinking to machines**, the Challenger team brings a whole new concept to sales and service through Cat dealers. It may be our biggest difference and our greatest strength. And it may be the reason your operation could become more profitable with Challenger equipment.

When you buy Challenger equipment you get the backing and support of the legendary network of Cat dealers.

People who have been keeping contractors, construction, mining, landscaping, roadwork and just about every heavy-machine demand undertaking in the world, up and running...365 days a year, day and night. People who don't take downtime lightly. That's why we're already creating Challenger brand loyalists—because every Challenger machine is backed by the same support. In fact, Cat dealers are second to none in on-location service.

With more mobile service trucks loaded with more diagnostic equipment than most repair shops, and better-trained technicians who work as hard at preventing problems as they do at repairing them.

Combine it all with our 24-hour-a-day parts network and you have the absolute gold standard in service. And it's all at work, ready to maximize your productivity and uptime.

Plus, Cat dealers have a rock-solid commitment to agriculture. This partnership solidifies their confidence in the Challenger product by putting their name behind the sales force and service network. Combining Serious Machinery with the Serious Dealers of Caterpillar is shifting the way things have always been done. A shift we're certain you'll agree will soon be the standard to beat.

Visit us at: www.challengerag.com



At AGCO Finance, we understand that financing is as much a part of your purchase decision as the features and benefits of the product. So we're committed to providing the best means of acquiring the equipment you need, while allowing you to preserve other credit lines of operating capital.

We offer flexible payment schedules, flexible terms, quality service, competitive rates, comprehensive financing and leasing options, and virtually unlimited resources. All are available under one roof, at your authorized Caterpillar dealership.