

MT400

Challenger[®]

THE **MT400B** Series

A close-up photograph of a yellow Challenger tractor. The focus is on the front right side, showing a large, black, treaded tire mounted on a white metal rim. The tractor's body is bright yellow with a black stripe that contains the word "Challenger" in a white, cursive font. Below the stripe, there are several vertical slats for ventilation. In the background, parts of the engine and other mechanical components are visible, including a yellow filter canister.

Challenger

**DESIGNED FOR
VERSATILITY**

Challenger

BUILT FOR RELIABILITY

Challenger® was started in 2002 with the well respected Caterpillar® brand of track tractors and engines; and has evolved into a full-line of wheel and track tractors, combines and hay equipment. Challenger unites high-specifications with superior reliability, innovative designs and groundbreaking technology to create professional-grade farm equipment.

Challenger is AGCO's fastest-growing equipment brand in North America and continues to gain trust by demonstrating superior performance, reliability, power and support.

THE CHALLENGER MT400B SERIES

Whether they're at work around the farm, moving materials on the construction site or mowing the median on a state highway, Challenger MT400B Series tractors give you more at every turn. More torque, more control, more serviceability features and more fuel left at the end of the day are just a few trademarks of the MT400B Series.

- **MORE CHOICES.** Available in four horsepower levels, MT400B tractors are offered in either a cab or platform (cab only on MT475B) with a two-wheel drive or powered front axle.
- **MORE HORSEPOWER.** New generation Cat® ACERT® Tier III engines plus the addition of the MT475B model takes the series up to 100 PTO horsepower (75 kW).
- **MORE FRONT HITCH OPTIONS.** A new front axle support casting on the six-cylinder MT475B allows the use of a fully integrated front 3-point hitch along with the added option of a 1,000 rpm PTO.
- **MORE GEARS.** The standard AutoPower IV™ transmission features clutchless shifting and smooth operation through a total of 16 gears in each direction.
- **MORE HYDRAULIC POWER.** Hydraulic flow rates up to 29 gpm (110 lpm) at the remotes and plenty of flexibility features for virtually any application.
- **MORE 3-POINT LIFT CAPACITY.** A lift capacity of up to 9,189 lbs (4,168 kg) for best-in-class performance.

MODEL	ENGINE	DISPLACEMENT	RATED HORSEPOWER *
MT445B	Cat C4.4 ACERT	4.4L (269 cu in)	75 PTO hp (56 kW)
MT455B	Cat C4.4 ACERT	4.4L (269 cu in)	85 PTO hp (63 kW)
MT465B	Cat C4.4 ACERT	4.4L (269 cu in)	95 PTO hp (71 kW)
MT475B	Cat C6.6 ACERT	6.6L (402 cu in)	100 PTO hp (75 kW)

* PTO HP when stationary





Legendary Cat diesel engines power all of the MT400B Series tractors. Whether it's the Cat C4.4 ACERT or the Cat C6.6 ACERT (MT475B only), these engines provide outstanding power and reliability, not to mention the latest Tier III technology for lower emissions, increased fuel efficiency and decreased noise levels.

STRENGTH AND PERFORMANCE START INTERNALLY

- Precise electronic control of the common rail fuel injection system provides quicker response to changes in field conditions and engine load for more power, more torque and better fuel economy.
- Four valves per cylinder provide better fuel/air mixture, improved gas exchange and optimum fuel combustion. The placement of the injector at the center of the head enhances fuel burn and power.
- A smart wastegate inside the turbocharger automatically diverts exhaust gasses away from the turbine wheel when necessary.
- A viscous fan drive houses an internal clutch that responds to engine temperature to provide increased airflow and maximum efficiency.

- A single-piece, cast-iron block on both engines boasts exceptional structural strength and a narrow profile for a tight turning radius and a superior line of sight.
- An air-to-air intercooler contributes to better combustion and improved engine performance.

ELECTRONIC ENGINE CONTROL

Electronic Engine Management works in perfect unison with the electronic fuel injection system to provide quick and precise response to throttle movement.



LEGENDARY CAT POWER



STATE-OF-THE-ART SPEED SELECTION



Challenger

The AutoPower IV is the kind of versatile, reliable transmission operators have been looking for to meet today's demanding applications. With a combination of four ranges and four powershifts, it is easily the simplest 16 X 16 semi-powershift transmission in its class.

SINGLE-LEVER CONTROL



Simply pulse the special T-handle forward or back to make sequential shifts through the four ranges and powershifts - all without clutching.

FINGERTIP POWER CONTROL



The three-function shuttle lever, located on the left side of the steering column, provides convenient fingertip control of forward/reverse shuttling, powershift changes and declutching; leaving the operator's right hand free to operate other controls, such as a loader joystick.

SHUTTLE INTENSITY



A rotary dial on the right-hand console lets the operator adjust the intensity of shuttle engagement to match application needs and preferences.

CREEPER AND SUPERCREEPER OPTIONS

For jobs that require full power and control at the lowest possible speed, all MT400B Series tractors are available with creeper and supercreeper gear reduction options. Respectively, they provide ratios of 4:1 and 14:1 gear reduction for speeds down to .4 mph (0.6 km/h) using creeper and as low as .11 mph (0.2 km/h) with supercreeper.





Whether it is a two-wheel drive or four-wheel drive, each model of the MT400B Series provides outstanding strength and agility to get the job done.

- 2WD models feature a rugged box-in-box style axle that can be adjusted for width in four-inch increments.
- 4WD models feature a powered front axle – an integral component that is matched to the horsepower and chassis size of each model.



- The cast-iron front axle housing (4WD models only) features a single-piece design to handle heavier loads, increased shock loads and greater torsion twisting.
- The powered front axle and on-the-go fully locking front differential are electro-hydraulically controlled by rocker switches conveniently located on the right-hand console.
- Wet disc rear brakes provide smooth, fade-free braking and longer service life.



AUTOMATIC FOUR-WHEEL BRAKING

MT400B models with 4WD feature four-wheel braking when both brake pedals are pressed by automatically engaging the powered front axle. The benefit is increased control, especially when towing heavy loads.

SOLID CONSTRUCTION MEANS STRENGTH



DURABLE AND DEPENDABLE PERFORMANCE



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Don't be fooled by the MT400B's mid-range class rating. These tractors feature 3-point hitch and hydraulic lift capacities that are best-in-class among mid-range tractors and even rival that of most high horsepower tractors.

MODEL	STANDARD LIFT CAPACITY	OPTIONAL LIFT CAPACITY*
MT445B	7,817 lbs. (3,546 kg)	9,189 lbs. (4,168 kg)
MT455B	7,817 lbs. (3,546 kg)	9,189 lbs. (4,168 kg)
MT465B	7,817 lbs. (3,546 kg)	9,189 lbs. (4,168 kg)
MT475B	9,189 lbs. (4,168 kg)	N/A

* Factory-installed option

ELECTRONIC LINKAGE CONTROL

Electronic Linkage Control (ELC) is easy to operate and provides the choice of a draft-sensing mode for quick response to changing field conditions or a position control mode for maintaining a steady height or depth.



- Rotary dials allow quick customization of lowering speed and maximum lift height.

- Telescopic lower link ends are standard, making it faster and easier to hook up large implements.

- Fender-mounted lift/lower buttons allow the operator to adjust hitch height from outside the cab.



- A palm-shaped pad allows rocker-switch control of raise/lower/neutral and dial control of height/depth.



SECURE, COMFORTABLE TRANSPORT

Active Transport Control allows the operator to lock mounted implements in the raised position and use the hydraulic rams to absorb shocks during transport over rough surfaces.

INDEPENDENT, DUAL-SPEED PTO



Forget about having to switch tractors when an application calls for 540 or 1,000 rpm PTO. Challenger MT400B Series tractors cover both speeds. Electro-hydraulic control ensures smooth engagement, while a digital PTO speed display on the dash eliminates any guess-work on actual PTO speed.

A convenient rocker switch changes the digital PTO speed readout on the dash after the shaft has been changed.

ECONOMY PTO OPTION



MT400B Series tractors are an economical choice for any job. However, even more fuel can be saved on light-duty PTO applications like spraying or raking with the economy PTO option. When engaged, it allows the engine speed to be reduced by 23% and still maintain 540 or 1,000 rpm shaft speed - reducing fuel consumption, noise, vibration and wear.

OPTIONAL FRONT 3-POINT HITCH



Take productivity to the next level with a front 3-point hitch (MT475B only). A 1,000 rpm PTO and two hydraulic remotes are also optional for added versatility.



EXPERIENCE BEST-IN-CLASS

Hydraulic muscle comes standard with the MT400B Series. Plus, there are plenty of options and flexibility features for virtually any application.

- Standard equipment is an open-center system that delivers 26 gpm (100 lpm) to handle a wide range of applications.
- MT400B Series models are also available with a hydraulic system that delivers 15 gpm (57 lpm) to the rear remotes.
- Cab models are available with a Closed-Center Load-Sensing (CCLS) hydraulic system that delivers 29 gpm (110 lpm).
- Two remotes are standard on all models with the option of a third and fourth valve.



TAKE PRODUCTIVITY TO NEW HEIGHTS

When your material handling needs call for a loader, you can't do any better than the Challenger MLB Series. Thanks to an integral fit, each of the four different models ensures the performance, reliability and operator comfort that comes with the MT400B Series tractor.

- The main loader arms are constructed of two U-shaped, high-strength alloy steel channels fitted together and welded on the inside for a 70 mm wide profile with a clean, strong appearance.
- Grease fittings are covered with plastic caps to give the loader a stylish look.
- Ozone-resistant hydraulic hoses are routed inside the double-C section loader beams for an uncluttered view and serious protection.

- Patented Compact Valve — incorporated into the cross tube and hidden under a cover — connects all functions at one point for easier service and synchronized flow between the left and right sides, regardless of the load, oil temperature or hydraulic pressure.

LOADER-READY PACKAGE

Save time and money by ordering a loader-ready MT400B Series model. In addition to pre-installed loader mounts and an integrated hydraulic valve set, the loader-ready package includes a multifunction joystick that allows the operator to control two functions simultaneously. The joystick allows the operator to incorporate third function capabilities.

HYDRAULIC PERFORMANCE



AVAILABLE LOADER MODELS

MODEL	MECHANICAL SELF-LEVELING		NON-SELF LEVELING	
	ML94B	ML97B	ML74B	ML77B
MT445B	•		•	
MT455B	•		•	
MT465B	•		•	
MT475B		•		•



ALL-DAY COMFORT FOR MAXIMUM PRODUCTIVITY

Cab or flat-deck platform, the MT400B Series provides plenty of comfort, control, roominess and visibility – all designed to improve operator efficiency and productivity. Every model of the MT400B Series can also be equipped with the new Mechanical Cab Suspension option for even greater comfort and reduced fatigue.

SEATING

All MT400B Series tractors come with a fully adjustable spring-suspension seat as standard equipment. All cab models feature an optional air-ride swivel seat with armrests as well as an instructor seat.

EASY-TO-REACH CONTROL CONSOLE



All major tractor and implement controls are conveniently located on the right-hand control console where they are logically and ergonomically arranged for maximum productivity and minimal fatigue.

MECHANICAL CAB SUSPENSION

The new Mechanical Cab Suspension system option utilizes silent block bushes at the front of the cab and a pair of spring assisted shock absorbers mounted at the rear. Damping is also provided in three dimensions with a panhard rod for lateral stability.

FULL VISIBILITY



All models feature a narrow, sloping hood and either an A-post mounted exhaust or an optional down-swept exhaust (4-cylinder models only).

Once the sun sets, two front grill high/low beam headlights, two double-element cab roof work lights and two double-element rear work lights help maintain productivity. Extra field lights on the hand rails are optional on all models.

CONVENIENCE FEATURES THROUGHOUT



- Analog gauges on the instrument panel provide engine rpm, coolant temperature and fuel level, while a panel of lights indicates engaged systems and components.
- Two digital readouts monitor PTO and theoretical ground speed.
- Dash mounted rocker switches allow convenient control of all lighting systems.
- Cab roof design provides ample head room and domed air vents for maximum air circulation.
- Climate controls built into the roof console offer four fan speeds, air conditioning control and a thermostat.
- Conveniently located 12-volt electrical outlet.
- Large field storage compartment.



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**CUT DOWN
ON THE DOWNTIME**

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Challenger engineers understand the need for maximum productivity. That's why the MT400B Series has easy-to-access daily service points – making it easy to service and maintain.



4-Cylinder (MT445B - MT465B)



6-Cylinder (MT475B)



Pivoting Cooling Package (MT475B)



Cassette-type air cleaner (MT475B)

- Redesigned for optimum airflow, the one-piece, styled hood lifts at the front for unprecedented access to the cooling system, air filter and key service points.
- No tools are required to separate the cooling cores to remove trash build-up or blockage.
- A weatherproof toolbox, molded into the fuel tank, provides convenient storage for tools and field supplies.
- The cab air filter, located under the cab roof overhang, is easily removed without tools for cleaning or replacement.
- A new cassette-type engine air cleaner on the 6-cylinder MT475B makes service even less time-consuming.
- The pivoting cooling package on the MT475B conveniently tilts up and away from each other for complete access and easy cleaning.
- The battery has been relocated beneath the right-side platform/cab steps for easier access.
- An optional battery disconnect allows the operator to completely disconnect the battery from the tractor electrical system.

WORLD-RENOWNED DEALERS, WORLD-CLASS SERVICE

When you buy or lease a Challenger MT400B Series tractor, you also get the backing and support of the legendary network of Challenger dealers who take downtime seriously. With more mobile service trucks loaded with more diagnostic equipment than most repair shops, Challenger dealers are second to none in field service. Plus, their factory-trained technicians work as hard at preventing problems as they do at repairing them.

It may be our biggest difference and our greatest strength. And it may be the reason your operation will become more profitable with Challenger equipment.

MAXIMUM WARRANTY COVERAGE

Challenger equipment comes with full warranty protection for two years or 2,000 hours, whichever comes first. An Extended Service Plan is also available, assuring you of continued support from your Challenger dealer.

Quality service plus a 24-hour-a-day parts network equals the absolute gold standard in dealer support.



SPECIFICATIONS/OPTIONS

PGS 18/19

MODEL	MT445B	MT455B	MT465B	MT475B
ENGINE				
PTO HP @ 2,200 rpm (kW)*	75 (56)	85 (63)	95 (71)	100 (75)
Engine manufacturer	Caterpillar	Caterpillar	Caterpillar	Caterpillar
Engine model	C4.4	C4.4	C4.4	C6.6
Aspiration/Charge cooling	Turbo/Air-to-Air	Turbo/Air-to-Air	Turbo/Air-to-Air	Turbo/Air-to-Air
Cylinders	4	4	4	6
Valves	16	16	16	24
Injection	Electronic high pressure common rail	Electronic high pressure common rail	Electronic high pressure common rail	Electronic high pressure common rail
Total Displacement L (CID)	4.4 (269)	4.4 (269)	4.4 (269)	6.6 (402)
Fuel Tank Capacity US gal (L)	38 (145)	38 (145)	38 (145)	38 (145)
Optional Fuel Tank US gal (L)	12 (45)	12 (45)	12 (45)	17 (65)

* PTO HP when stationary

TRANSMISSION

16 x 16 Autopower IV, 4 ranges, multifunct. Power Shuttle	Std/Opt creeper	Std/Opt creeper	Std/Opt creeper	Std/Opt creeper
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AGCO FINANCE

AGCO Finance understands 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.

See your authorized Challenger dealer for:

- competitive rates
- comprehensive financing
- flexible payment schedules
- flexible terms
- quality service
- leasing options
- virtually unlimited resources

ABOUT AGCO

AGCO, Your Agriculture Company, is a premier manufacturer of agricultural equipment, providing high-tech solutions for professional farmers feeding the world. The company is dedicated to delivering superior customer service, innovation and quality. AGCO products are distributed in more than 140 countries worldwide.

AGCO ANSWERS

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At AGCO, customer care isn't just a department. It's a commitment. Contact us with your questions. We'll do our best to answer them promptly or put you in touch with someone who can.



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MODEL	MT445B	MT455B	MT465B	MT475B
3-POINT HITCH				
ASAE category	II	II	II	II
Lift capacity @ 24" (610 mm) lbs. (kg) std/opt	7,817 (3,546)/9,189 (4,168)	7,817 (3,546)/9,189 (4,168)	7,817 (3,546)/9,189 (4,168)	9,189 (4,168) std
Type of draft sensing	Top link	Lower link	Lower link	Lower link
4WD FRONT AXLE				
Engagement	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
Tread width min/max in. (mm)	52.2 (1,325) / 80 (2,032)	52.2 (1,325) / 80 (2,032)	52.2 (1,325) / 80 (2,032)	57.3 (1,455) / 85.2 (2,164)
REAR AXLE				
Differential lock	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
DIMENSIONS				
Length in. (mm)	165.7 (4,210)	167.7 (4,260)	169.3 (4,300)	189.7 (4,818)
Height over cab in. (mm)	108.3 (2,752)	108.3 (2,752)	109.1 (2,770)	110.2 (2,800)
Width min/max in. (mm)	79.3 (2,014)/100.4 (2,550)	79.3 (2,014)/100.4 (2,550)	79.3 (2,014)/100.4 (2,550)	79.3 (2,014)/100.4 (2,550)
Wheelbase in. (mm)	100 (2,552)	100 (2,552)	100 (2,552)	111 (2,827)
Weight, 2wd/4wd cab lbs. (kgs)	9,198 (4,172)/9,848 (4,467)	9,198 (4,172)/9,848 (4,467)	9,402 (4,265)/10,112 (4,587)	11,195 (5,078)/11,905 (5,400)
POWER TAKE-OFF (PTO)				
Type	Independent	Independent	Independent	Independent
PTO speed	540/1,000 or opt. economy	540/1,000 or opt. economy	540/1,000 or opt. economy	540/1,000 or opt. economy
AUXILLIARY HYDRAULICS				
Type (2 valves std/4 opt on all systems)	Open center	Open center	Open center	Open center
Maximum hyd. flow@remotes gpm (lpm) std/opt	26 (100)/15 (57)	26 (100)/15 (57)	26 (100)/15 (57)	26 (100)/15 (57)
Type (option on cab models only)	Closed center	Closed center	Closed center	Closed center
Maximum hyd. flow@remotes gpm (lpm) std/opt	29 (110)	29 (110)	29 (110)	29 (110)
POWER STEERING/WET BRAKES				
Steering column	Tilt/Telescopic	Tilt/Telescopic	Tilt/Telescopic	Tilt/Telescopic
OPERATOR'S AREA				
Type of operator area (cab or open platform)	Both	Both	Both	Cab only
Cab sound level dB(A)	75	75	75	75
Cab glass area ft ² (m ²)	61 (5.7)	61 (5.7)	61 (5.7)	61 (5.7)



DB SERIES

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