

Cat[®] dealers and service.

World-renowned dealers delivering world-class service.

In addition to bringing **new thinking to machines**, Challenger 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 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 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 fixing 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.

Challenger[®] MT500B



serious **machinery** — serious **dealers**

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MT500B SERIES
95 to 145 PTO HP

From innovative beginnings comes a line of equipment that will change the way you think about farm machinery

Today, farming is serious business—more serious than ever. We understand that you face ever increasing pressure to maximize productivity, cut costs and control as many variables as possible. It's with all these factors in mind that in March 2002, we launched an entirely new kind of equipment company. It was then that AGCO® Corporation acquired the highly praised Challenger® line of track tractors from Caterpillar® and began expanding it into a full line of serious farm machines. In addition, we broke from the traditional dealer sales and service equation by partnering with Cat and the unequalled Cat® dealer organization.

Today we're offering the most innovative and advanced track tractors in the world—without exception. An astonishingly simple, yet highly productive line of rotary combines. A suite of highly respected, high-quality, high-output hay equipment. And an entire line of rugged wheel tractors from 23 to 225 HP—built to the toughest standards in the industry. All sold, serviced and supported solely by Cat dealerships. The best-trained, most responsive dealers in any business.

In the pages that follow we'll outline what makes the new Challenger MT500B series of wheeled tractors standouts in the market today. And rest assured, we're constantly making improvements, anticipating the needs of the future and improving on the Serious Machinery of Challenger.

Challenger. Serious Machinery. Serious Dealers.

The MT500B Series has been redesigned to be more rugged, more reliable with enough raw power to handle your toughest jobs.

- 6-cylinder electronically fuel injected Caterpillar® engines recognized around the world for durability and reliability
- Industry-leading AutoPower IV (32F x 32R) 4 speed powershift transmission
- Optional TechStar CVT transmission, allowing operation at any combination of forward speed and engine rpm
- Highest 3-pt lift capacities in the industry
- A cab featuring advanced ergonomic controls for easy operation and comfort at an impressive and quiet 71 DbA ... the quietest cab in the industry
- Efficiency and comfort-enhancing features of an industry-leading front axle suspension system
- Smooth, quiet operation thanks to industry-leading air ride cab suspension
- Optional Xenon lighting that can virtually turn night into day

All of these features come in a tractor with an impressive, newly-restyled cab interior maximizing comfort, visibility and control.

MT500B SERIES Offering five models to choose from.

MT525B-95 PTO HP
MT535B-105 PTO HP
MT545B-115 PTO HP
MT555B-130 PTO HP
MT565B-145 PTO HP

Specifications: MT500B Series tractors

MT 500B TechStar CVT • MT 500B AutoPower IV

ENGINE	MT525B	MT535B	MT545B	MT555B	MT565B
PTO HP	95	105	115	130	145
Engine	Caterpillar 3056	Caterpillar 3056	Caterpillar 3056	Caterpillar 3056	Caterpillar 3056
Cooling	Liquid	Liquid	Liquid	Liquid	Liquid
Fuel	Diesel	Diesel	Diesel	Diesel	Diesel
Rated Speed	2,200	2,200	2,200	2,200	2,200
Aspiration	Turbo	Turbo	Turbo	Turbo	Turbo
Displacement (CID / L)	366 / 6.0	366 / 6.0	366 / 6.0	366 / 6.0	366 / 6.0
Bore (in / mm)	3.94 / 100	3.94 / 100	3.94 / 100	3.94 / 100	3.94 / 100
Stroke (in / mm)	5.0 / 127	5.0 / 127	5.0 / 127	5.0 / 127	5.0 / 127
# Cylinders	6	6	6	6	6
FUEL TANK CAPACITY					
Cab (US Gal / L)	71.3 / 270	71.3 / 270	71.3 / 270	71.3 / 270	71.3 / 270
TRANSMISSIONS					
Standard	AutoPower IV	AutoPower IV	AutoPower IV	AutoPower IV	AutoPower IV
Speeds	32F X 32R	32F X 32R	32F X 32R	32F X 32R	32F X 32R
Optional Creeper	Yes	Yes	Yes	Yes	Yes
Optional	TechStar (CVT)	TechStar (CVT)	TechStar (CVT)	TechStar (CVT)	TechStar (CVT)
Speeds	Infinite	Infinite	Infinite	Infinite	Infinite
	(0 to 32 mph)	(0 to 32 mph)	(0 to 32 mph)	(0 to 32 mph)	(0 to 32 mph)
	(0 to 50 kph)	(0 to 50 kph)	(0 to 50 kph)	(0 to 50 kph)	(0 to 50 kph)
BRAKES					
Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc
POWER TAKE-OFF (PTO)					
Independent	Independent	Independent	Independent	Independent	Independent
Speeds rpm	540/1000/Economy	540/1000/Economy	540/1000/Economy	540/1000/Economy	540/1000/Economy
HYDRAULIC SYSTEM					
Type	PFC	PFC	PFC	PFC	PFC
# remotes std. / opt.	2/up to 4	2/up to 4	2/up to 4	2/up to 4	2/up to 4
Max. Pressure (PSI / Bar)	2900 / 200	2900 / 200	2900 / 200	2900 / 200	2900 / 200
Std. Output	29	29	29	29	29
3-POINT HITCH					
3-Point Hitch Control	Electronic	Electronic	Electronic	Electronic	Electronic
Category:	II	II	II	II	II
3-Point Hitch Stabilizers	Telescoping	Telescoping	Telescoping	Telescoping	Telescoping
Lift Capacity @ 24" (lb / kg)					
Auto Power IV	7000 / 3175	8,700 / 3946	8,700 / 3946	14,700 / 6,668	14,700 / 6,668
TechStar CVT	11,200 / 5,080	11,200 / 5,080	11,200 / 5,080	13,700 / 6,214	13,700 / 6,214
Lower Draft Arm Link Ends	Telescopic	Telescopic	Telescopic	Telescopic	Telescopic
DIMENSIONS					
Wheel base (in / mm)	109.5 / 2780	109.5 / 2780	109.5 / 2780	109.5 / 2780	109.5 / 2780
Minimum Width (in / mm)	81.1 / 2060	81.1 / 2060	81.1 / 2060	81.1 / 2060	81.1 / 2060
Height Top of Cab (in / mm)	112.8 / 2865	112.8 / 2865	112.8 / 2865	112.8 / 2865	112.8 / 2865
Overall Length (in / mm)	171.0 / 4344	171.0 / 4344	171.0 / 4344	171.0 / 4344	171.0 / 4344



Service and maintenance are no longer a chore.

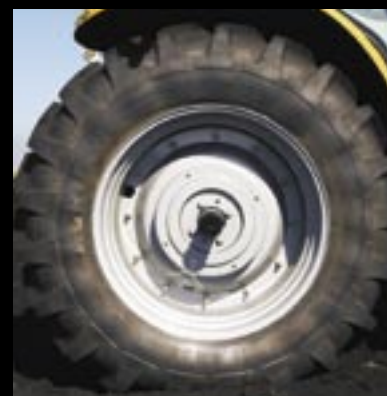
Service on the MT500B Series is a dream. Daily service points are easy to reach and in plain sight. The fuel fill is located on the left-hand side and is accessible from the ground. Engine service points are easily accessed behind innovative, tilting engine side panels, putting every service check at your fingertips.

The radiator, oil dipstick and fill and the hydraulic oil cooler and radiator are all accessible through swing out panels. The air cleaner is directly above the engine for easy inspection, cleaning or replacement.

Tires

All Challenger MT500B Series tractors come equipped from the factory with Michelin® Agribib™ tires, the most productive tires in agriculture.

Agribib tires feature a unique non-pyramid vertical-lug design that maintains excellent traction even when the tread is up to 70 percent worn. They have a strong, yet flexible sidewall creating a longer footprint, keeping more lugs in contact with the ground. It all translates to more pulling power and reduced soil compaction.



Michelin is internationally known for its commitment to quality and safety. The unique tread design, sidewall design and strict quality control creates a tire that not only delivers great traction, but a smoother, more comfortable ride, even at transport speeds.

serious machinery



serious dealers

Maximizing comfort means maximizing productivity.

Designed for optimum comfort, efficiency and productivity, the operator environment on the MT500B Series is ergonomically designed with plenty of room and exceptional visibility.

An optional, industry-leading, dual-stage air-suspended cab optimizes the ride in any condition, at the same time reducing vibration and noise. And you can adjust the ride at the touch of a button to suit field or road operation. The system's advantage lies in a unique design that features air suspension between the cab and transaxle which is similar to suspension systems found in over-the-road trucks.

Further enhancing the ride are unique rubber-roller front cab mounts, reducing the amount of transfer vibration and virtually eliminating fore-and-aft pitching during road transport.



All controls within easy reach.

Controls on the new MT500B Series are now grouped together by function for easier operation and reduced operator fatigue. A new state-of-the-art instrument panel keeps tabs on all vital functions, including engine speed, fluid levels and

monitors tractor systems. A new right-hand interface, located on the steering column, features a unique touch-pad that allows the operator to easily interact with tractor transmission functions.



All gauges and indicator lights on the state-of-the-art instrument panel are in full view and a natural, no-stress glance from the seat. Vital performance functions are easy to read and are represented by tractor schematics. And all lighting is controlled with an innovative touch pad. A graphical diagram displays each light, taking the guesswork out of which lights are selected.

Superior seat design will have you riding in comfort.

The standard air-ride seat, keeps you comfortable for as many hours as it takes to get your toughest work done. And the seat is positioned to maximize visibility. A special carbon fabric breathes, helping you stay cool, even on the hottest days.

With 15 degrees of rotation, the seat allows you to turn right and left, making it easier to monitor all of your towed or 3-pt mounted implements. The seat is also adjustable to the operator's height and weight. A sliding headrest, an adjustable seat cushion and fore-and-aft settings customize the fit to each operator's preferences.

For an even greater level of comfort, choose the optional super-deluxe air-ride suspension seat featuring an extra-wide seat cushion, added leg and lumbar support and heat for necessary warmth on those cold winter days. A standard instructor's seat, with seat belt offers a wide bottom for added comfort that folds out of the way when not in use.

State-of-the-art heating and ventilation helps keep the operator comfortable with two options of control: manually adjustable air conditioning and automatic climate control for optimum comfort without monitoring. Simply set it and forget it.

A virtually unobstructed 360 degree view helps you keep everything in sight.

The view from the MT500B is panoramic. With 61 square feet of tinted glass, narrow corner posts, side-mounted exhaust and two extendable outside mirrors, there is clear, no-strain visibility all around. And the new Challenger MT500B series offers optional heated, remote control mirrors. The pull-down front shade blocks glare and reduces heat, and an easy-opening rear corner window, and rear window maximize air circulation.

With the new TechStar™ CVT you will experience power, control and efficiency like never before. The TechStar CVT is available with 2 top speed options ... 25 mph (40 kph) or, for increased productivity 31 mph (50 kph).

More power. More control. More productivity.

Challenger Hydraulics—More power, more control, more productivity.

MT500B Series tractors feature advanced controls and offer more than enough lift capacity to get the job done. The industry-leading TouchMaster™ hydraulic control system features a programmable electro-hydraulic valve arrangement that is controlled by Challenger's unique multi-directional joystick. Combined with the TechStar CVT this makes for a virtually perfect solution for loader work. The TouchMaster system allows the operator to program the flow and speed of all functions and then operate simply



The joystick lets you easily and precisely program function and flow settings, record them in the TouchMaster memory and repeat them with a single move of the joystick.

by moving the joystick, shortening cycle times and reducing operator fatigue. Additionally, new external spool valve couplers allow equipment to be connected or disconnected under pressure, for easier implement hook-up.

And, at the working end of each MT500B Series, you'll find a rugged 3-point hitch with the highest lift capacity in the industry—7,000 to 14,000 lbs. (depending upon transmission). It all adds up to a top performer, especially with many of today's

heavy, hydraulic-intensive implements. Optional front PTO and 3-pt hitches are also available. These hitches are also capable of delivering the highest lift capacities in the industry.



Industry-leading hydraulic capacity

Industry-leading hitch lift capacity

Even the power-take-off on the MT500B Series offers leading edge design. Three settings offer a choice of 540 and 1,000 rpm—standard equipment. And the Economy range maintains 1,000 rpm speed at a reduced 1,550 engine rpm, significantly lowering fuel consumption and engine wear at lower noise levels.

A live shaft drives the electronically controlled PTO through a wet multi-disc clutch. For safety, the PTO automatically disengages when the engine is turned off, while a hydraulic brake prevents shaft rotation when the PTO isn't engaged.

Fieldstar®

The Fieldstar Precision Agriculture System features the exclusive DataTOUCH® Command Center terminal. This user-friendly system provides access to all the functions of your in-cab system with one easy-to-read touch screen. Fieldstar can be used in all your farming applications and is compatible with most agricultural

software applications for a wide range of analysis options.

Working in tandem with GPS technology, Fieldstar creates yield maps, marker maps, assists with application planning as well as offers the ability to be completely tailor your farming practices to your fields. This helps maximize your profitability and improve environmental practices.

MT500B Series tractors are built for integrated attachment of Fieldstar. The touch screen is a clean installation with no exposed cables, no keyboards or keypad buttons. Fieldstar can be used with all of your Challenger equipment and its open architecture extends that capability to many other brands.



Fieldstar Precision Agriculture System offers flexibility with a wide range of machines and software.

Largest cab available on a tractor under 130 HP featuring 61 sq feet of glass for outstanding visibility

Easy to read, state-of-the-art instrument panel

Exceptionally comfortable seat

Easiest-to-use controls in the industry—Finger-tip controls located within easy reach of the operator

Lowest cab decibel rating in the industry ... 71 dbA

Tougher transmissions deliver more productivity per acre.

Challenger offers industry-leading transmission options to tailor your tractor to each of your unique applications.

TechStar CVT: Unlimited speed and power control.

The TechStar CVT transmission combines proven hydrostatic transmission technology with conventional mechanical efficiency. This merging of technology allows operation in infinite combinations of forward speed and engine rpm – optimizing performance while minimizing fuel consumption. Two continually variable speed ranges are ideal for field at 0-15 mph or road travel at 0-31 mph.



The straight forward, easy-to-use and understand controls make operation of the TechStar transmission ideal to operate. There are no mechanical gears with the TechStar transmission, so changing speed is smooth and efficient. The left-hand power control lever shuttles between forward and reverse while the TechStar speed adjustment lever smoothly alters the speed and velocity of the tractor. With the TechStar transmission, the operator can choose either lever or foot pedal control for loader or grain handling applications. The Engine

Supervisor function automatically adjusts the transmission speed of the tractor depending on engine load eliminating manual speed changes. The percent change can be varied for different operations, maximizing performance and economy. Two working speeds can be selected and preset by the operator for a variety of different jobs. The operator simply selects a desired speed for fieldwork or travel and engages at the touch of a button. Increased productivity is at your fingertips.

The TechStar CVT is Proven Technology.

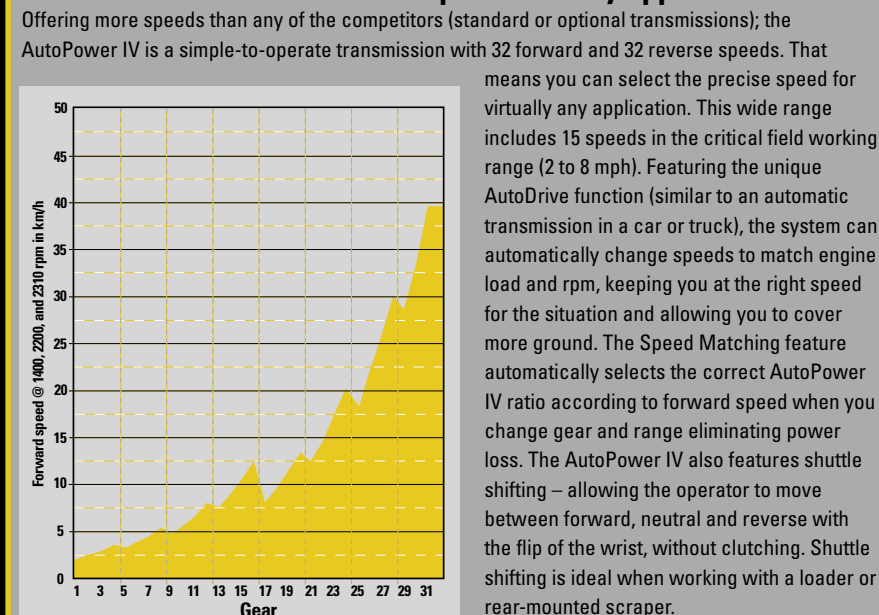
For more than 10 years, another fine brand within the AGCO stable of tractors has been successfully marketing this transmission technology. Today, more than 30,000 CVT transmissions are helping increase productivity throughout the world. Although some have tried, no company has been able to duplicate

the combination of simplicity, dependability and productivity delivered by the TechStar CVT.

Optional suspended front axle.

A unique optional suspended front axle provides superb efficiency and comfort, in the field and on the road. The front axle suspension virtually eliminates power hop and reduces component stress. This suspension can be turned off in cases of extreme front axle loads to prevent damage. Yet even when turned off, front axle oscillation is not compromised. This Challenger exclusive, ensures the front axle will continue to keep both tires in proper, weighted ground contact in all types of terrain. This industry-leading suspension system also reduces tire wear, improves fuel economy, provides more responsive steering and is the easiest system to maintain on the market today.

AutoPower IV: Precision power for any application.*



*Models MT535B and MT545B with 20,8,R38 tires at 2200 rpm. Models MT525B, MT555B and MT565B: speeds will vary based on model and tire specifications.



Caterpillar® engines offer legendary strength and efficiency.

The new MT500B Series is powered by proven diesel engine technology from Caterpillar. These Cat 3056 engines provide outstanding power and reliability. Each model features a 6-cylinder turbocharged diesel that is built to the most demanding standards in the industry. In addition, these Tier II, electronically fuel-injected engines optimize swirl combustion, reduce noise, and increase fuel efficiency while meeting all planned EPA emission standards.

For example: Set one speed to 6 mph for field work and another speed at 3 mph. At the touch of a button the engine powers down to make a smooth turn, allowing you to pay more attention to the turn and to controlling implements.



A programmable memory setting allows the operator to preset two different speeds. This memory function allows the operator, with the push of a button, to increase or decrease a set speed. This provides greater fuel efficiency and ease in turning.

With their electronic fuel injection system, MT500B Series engines offer an optional adjustable engine speed control. The operator can program two specific engine speeds and with the touch of a button, taking the guesswork out of maintaining consistent speeds and optimizing both fuel efficiency and ease of operation.

