

# *Challenger* MT500D SERIES



**MT500D SERIES**

140-180 PTO hp







*Challenger*

# TRACTORS BORN WITH A TYPE-A PERSONALITY

The Challenger MT500D Series brings the power and reliability you demand for the toughest jobs. Then we build in the comfort and control to keep a long day from feeling that way.

With more power, increased efficiency, greater capacity and unprecedented ergonomic control, the new Challenger® MT500D Series is that machine. Designed to give you exactly what you need, it redefines expectations of what a tractor should be — in the field and in the cab.

## **RUGGED. INNOVATIVE. UNSTOPPABLE.**

- Electronically fuel-injected AGCO POWER 6.6-liter (402 cu. in.) and 7.4-liter (452 cu. in.) engines legendary for strength, reliability and efficiency.
- Innovative second-generation e3 SCR (Selective Catalytic Reduction), Tier 4i emission technology for brawny performance, enhanced fuel economy and industry-leading air quality control.
- Maintenance-free Diesel Oxidation Catalyst (DOC) designed to be in service for the life of the machine. Plus, real-time emissions and DEF monitoring ensure exceptional total fluid efficiency and compliance. Not to mention a better bottom line.
- Two high-performance, award-winning transmission options.
- Optional Tractor Management Center (TMC) with ISOBUS electronics and monitoring systems improve efficiency and record-keeping. Plus, all ISOBUS-compatible implements can be controlled via the TMC.
- Multi-function joystick customizes common functions to increase efficiency, and provide a new benchmark for control when the tractor is equipped with a front loader.
- New Multipad Control, with easy fingertip functionality, provides enhanced operational performance.
- Industry-leading Topcon 150 System automatic steering system available direct from the factory.
- AGCOMMAND-ready to further enhance productivity and optimize fleet performance.
- One of the highest three-point hitch lift capacities in the industry easily handles the latest-generation attachments like heavy-mounted planters.





# RIGHT-SIZED. RIGHT-POWERED. SERIOUSLY EVOLVED.

Your tractor isn't just a piece of equipment. It's your right arm, left brain and significant other.

The toughest conditions are child's play for these babies. All Challenger MT500D Series tractors are equipped with Tier 4i-compliant, AGCO POWER engines. With solid, cast-iron construction and a high-pressure, common-rail, fuel-injection system, this durable six-cylinder, turbocharged diesel continues Challenger's legendary tradition of strength and reliability.

- Four valves per cylinder improve intake and exhaust gas flow, and a new injector location in the center of the combustion chamber makes for more complete, efficient combustion.
- Cross-flow head design for cooler intake temperatures and a higher energy intake charge.
- Single-side servicing gets you into the field quicker and simplifies maintenance.
- A large, viscous drive fan operates only when needed, saving fuel and horsepower.

- Narrow, in-line design improves forward visibility and allows a short turning radius.

## POWER BOOST FOR AUTOPOWER VI

On models with AutoPower VI, a sophisticated interaction between the engine and transmission management system enables a significant power and torque "boost" when third or fourth gear are selected, or when the PTO is engaged.

## ELECTRONIC ENGINE CONTROL (EEC) SYSTEM

- Full-authority electronic engine control standard on all models, providing full machine integration, engine history and system protection.
- Works with electronic fuel-injection system to provide quick, precise response to throttle movement.

- EEC system constantly communicates with transmission to help maintain consistent travel and engine speed.

## COMPLIANCE WITHOUT COMPROMISE

With e3 SCR technology, these tractors offer the most farmer-friendly approach to meeting EPA standards, with no trade-offs in power, productivity or operating cost.

- Uncompromised horsepower and torque
- Significantly improved fuel economy
- Cooler-running engines for high efficiency and low maintenance
- No increase in price









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# ANY CHALLENGE. ANYWHERE. ANY TIME.

With two highly efficient, award-winning transmissions from which to choose, you're sure to get the most advanced combination of ergonomics and simplicity. Of course, you wouldn't settle for anything less.

## AUTOPOWER VI

Regardless of the transmission you choose, you can count on responsive shuttle shifting via a control lever on the left side of the steering column. You can pre-set forward and reverse starting speeds, and electronically adjust shuttle modulation sensitivity.

### PROVEN AUTOPOWER VI PERFORMANCE

The AutoPower VI offers six powershift ratios that can be shifted under full load within four electro-hydraulically selected ranges. That's 24 speeds in both forward and reverse. The operator can manually change both the AutoPower ratio and gearbox range under load, without using the clutch. For AutoPower ratio changes, simply move the T-handle forward or back

to make pulse or sequential shifts. (AutoPower ratios can also be changed with the power control lever).

For easy range changes, just hit the button on the control handle while moving the lever forward or backward. This allows for easy progression from minimum to maximum speed and quickly finds the optimum balance of engine and travel speed.

### NEW PROGRAMMABLE CRUISE SPEEDS

Two new programmable gear and range selections allow an operator to reach the desired speed and performance with the touch of a button.

### MULTI-MODE AUTOMATIC SHIFTING

The AutoPower VI incorporates a rotary-dial autodriven controller to provide automatic shifting in several modes:

**Manual** — Manual shifting with back-up for over-speed protection.

**Speed Matching** — Automatically selects the appropriate AutoPower ratio after a manual range change.

**Autodrive** — At selected engine speeds between 1,600 and 2,200 rpm, controls the upshift and downshift points at which the transmission automatically selects the next AutoPower ratio. Shifts are electronically actuated in response to both engine speed and load, providing full power and torque control, as well as engine braking. In "Road" mode, transmission changes both the AutoPower ratio and gear range. In "Field" mode, only the AutoPower ratio is changed automatically.



# A TRANSMISSION THAT QUICKLY SHIFTS FROM TOUGH JOB TO TOUGHER JOB

## TECHSTAR CVT

Simplicity and performance are at the heart of the TechStar CVT (Continuously Variable Transmission). With over 100,000 AGCO CVT transmissions currently in use worldwide, you can rest assured the toughest jobs will always get done.

### INFINITE SPEED CONTROL

With Infinite Speed Control, you can access power reserves and speed choices normally hidden in the speed ranges between gears. So you control precise ground, engine and/or PTO speeds.

### SIMPLY EFFORTLESS

Just move the control lever in the desired travel direction and select the right speed for the job. No shifting, jerking or delay in traction or power, just infinite control from creep to transport. Plus, you can shift to pedal mode to free your hands for other functions.

## AUTOMATIC VERSIONS OF PEDAL MODE

### Power Mode

Provides stepless characteristics while putting the priority on engine speed and power. Handles heavy tillage or hauling loads – over varying terrain – without concern for engine lug-down.

### Economy Mode

Ratio changes are made at lower engine speeds, for improved economy in light-duty applications.

### Forager Mode

Maintain a specified engine speed, while using the foot pedal to control ground speed. Ideal for loader work, baling or forage harvesting requiring a constant engine speed. Working with the TechStar CVT, the Engine Supervisor automatically maintains travel speeds by adjusting the transmission ratio any time engine speed is reduced.

## Power Management (PM)

An industry-exclusive, PM allows engine and transmission to work together to maintain the most efficient setting based on engine load. Your tractor runs at the most efficient RPM, and varies the RPM to meet draft loads.

## Two Speed Ranges

Two continually variable speed ranges provide stepless field speed selections from 0-17 mph (0-28 kph) and transport speeds from 0-25 mph (0-40 kph) with the standard front axle, and 0-32 mph (0-50 kph) with the optional front-axle suspension system.

## Pre-Set Speed Controls

TechStar CVT provides two field cruise speeds in each of the two speed ranges.







# CABS CRAFTED TO KEEP A LONG DAY FROM FEELING LIKE ONE

The redesigned Challenger MT500D Series cab is perhaps the largest, roomiest, quietest and most technologically evolved cab on the planet. With three cab package options to choose from, you get the ultimate in versatility, operator comfort and ease of operation. So you stay comfortable and alert from sun-up to sundown.

**Classic** – Equipped with the AutoPower VI partial power-shift transmission only, Classic models are economical and full-featured, with comfortable and familiar control layout.

**Deluxe** – With either Techstar CVT or AutoPower VI transmission, Deluxe models offer the ultimate in versatility and an ergonomic, seat-mounted control armrest.

**Premium** – For the ultimate in technology, with all the bells and whistles, Premium models come with the new Multipad armrest with Multipad joystick, featuring thumb and fingertip controls for major tractor functions.

## SO QUIET, SO COMFORTABLE

Our roomy cab offers more headroom, automatic air conditioning and a commanding 360° picture window view, as well as an unparalleled sound-pressure level. Settle back in the fully adjustable, air-ride swivel seat or choose the added comfort of the optional extra-wide seat with added cushioning.

## BEYOND SMOOTH. BEYOND COMFORTABLE. BEYOND EXPECTATION.

The redesigned, seat-mounted control arm organizes all controls by function while placing them at your fingertips. The control arm also includes an advanced ISOBUS-based Tractor Management Center with video capability and integrated control of any ISOBUS-compliant equipment.

## THREE CONSOLES AVAILABLE



Familiar layout ergonomically places T-handle transmission level and hydraulic controls within easy reach on ride-side console alongside PTO and three-point hitch controls.



Short control armrest features T-handle transmission and fingertip-controls for hydraulic remotes, three-point hitch, engine speed and headland, throttle and power management.



Multipad armrest with Multipad joystick for thumb and fingertip control of forward/reverse shuttling, PTO, programmable hydraulic function, engine and cruise speeds.





*Deluxe cab shown*







**THE POWER TO CONTROL BRUTE FORCE  
(NOW AVAILABLE AT YOUR FINGERTIPS)**

*Challenger*



This is about smart performance. About having exactly what you need at your fingertips, with clearly marked controls and switches that are ergonomically arranged by form and function. From the hand throttle and hydraulic controls, to the three-point hitch depth control, to the engagement switch for the power front axle.

With everything incorporated into the armrest - even the TechStar CVT speed control - whatever you reach for becomes an extension of you.

### **POWER UP TO FIT YOUR OWN SPECIFIC CHALLENGE**

The MT500D Series tractor is readily customizable to fit the high-tech way you farm. The innovative Tractor Management Center (TMC) works in tandem with the standard equipment travel speed sensing radar. It offers an extensive array of high-value monitoring, control and comparative functions, including wheel slip, fuel/hour, distance, cost/hour and area worked.

The Headland Management System (HMS) activates at the push of a button.

- Program up to 35 tractor and implement actions
- Program hydraulic remotes to extend or retract, raise the three-point hitch, downshift, throttle back, disengage or re-engage the PTO and/or disengage the AWD and differential lock

Our ProMAX™ Implement Response Control comes standard.

- Senses wheel slip in excess of preset levels
- Automatically adjusts the working depth of hitch-mounted implements

The unique Trailed Implement automatically controls wheel slippage

- Automatically adjusts the working depth of sensor-equipped trailed implements
- Keeps field travel speed and engine performance at peak levels at all times

### **SEQUENCE MEMORY FOR PRE-PROGRAMMING**

The unique Power Performance III system allows you to pre-program and save a Headland Management Sequence for use by someone else.

### **EASY DATA RECALL**

- Input memory functions for up to six complete sets of data using keys and rotary dial on the TMC terminal

- Name fields, operators or implements for easy recall when changing drivers or equipment

### **ISOBUS-COMPATIBILITY WITH FINGERTIP CONTROL**

Monitor the performance of both the tractor and trailing implements through a common ISOBUS communication system that eliminates the need for a separate monitor/control box in the cab for every different implement.

### **AUTO-GUIDE™ GIVES NEW MEANING TO PRODUCTIVITY, EFFICIENCY AND EASE.**

The intuitive Auto-Guide satellite navigation system trades fatigue and exhaustion for increased operation speeds — particularly at night and in low-visibility conditions. It also reduces skips and overlaps, as well as seed and chemical waste.



# PRECISE DATA FOR ONE MACHINE OR YOUR ENTIRE FLEET



Precision farming, machine control and machine management technology allow you to work smarter than ever before.

The AGCO System 150 Precision AutoSteering Technology, an industry leader in performance, is a complete automatic steering system, featuring flexible accuracy options.

## THE STRONGEST PARTNERSHIP IN THE INDUSTRY

AGCO and Topcon Positioning Systems have teamed up to usher in a new era of precision agriculture. This partnership was formed with a commitment to provide the most sophisticated and accurate satellite-guided positioning systems on the market.

## Multiple Viewing Options

The moving map display can be set to see the field in Bird's Eye, North Up or Horizon views.

## Visual Indicators

Easily identify area applied, speed, row number and satellites.

## Automatic Coverage Mapping

Features easy-to-read maps for tracking areas covered or missed, and boundary mapping for planning application and coverage.

## Convenient USB Port

Quick and simple for transferring field data and reports.



## COMPLETE STEERING SOLUTION

The AGI-3 Positioning System can be upgraded to Omnistar or RTK performance with 900 MHz radio, GSM option. The AGI-3 is also compatible with Topcon base stations, GSM and CORS networks.

Topcon's unique Paradigm G3 Triple Constellation Technology can receive GPS, Glonass and Galileo (when available) and features state-of-the-art inertial sensors and steering control with superior line acquisition and holding capabilities.

## Direct Interface Steering

- Automated steering system calibration
- Designed for a wide range of guidance-ready equipment

## THE CHALLENGER DIFFERENCE

Every AGCO System 150 comes standard with sub-meter and decimeter accuracy. Easily upgrade to centimeter accuracy with a Snap-In Module that also allows the use of Internet-based correction signals. Simply call OmniSTAR to subscribe to one of their signals (VBS, XP or HP) and start driving. Or use WAAS for a no-cost sub-meter system.





## AGCOMMAND™

AGCO's AGCOMMAND system is a leading-edge data recording tool that helps users optimize fleet performance, monitor operating costs and generate reports.

### HOW AGCOMMAND WORKS

The AGCOMMAND system collects GNSS (Global Navigation Satellite System) satellite location and machine performance data every 60 seconds in the Standard Plus package and every 10 seconds in the Advanced package. This allows users to see where machines are, where they have been and the data collected at each interval.

### DATA COLLECTION

Machine performance data is collected from the vehicle's CAN Bus. This data is then transferred via a GPRS cellular modem. Access to the stored data is obtained by logging into a secure and easy-to-use website.

### BENEFITS OF AGCOMMAND

Utilizing this information will help managers analyze vehicle efficiency, maximize productivity and increase profitability. The Universal Installation Kit allows AGCOMMAND to be fitted to any piece of machinery in a fleet, regardless of brand.

### OPTIMUM PERFORMANCE

AGCOMMAND organizes information and develops detailed reports that track engine hours, fuel consumption, operator efficiency and field-specific machine information. By collecting and summarizing this information, the system promotes accountability to help optimize performance.

### MAINTENANCE

AGCOMMAND makes maintenance easier to plan and track. Service alerts can be set to signal maintenance intervals. Alerts can also be set to notify your dealer for faster service response time.

### GEO-FENCING AND LOGISTICS

Geo-fences, or virtual GPS boundaries, can be created to track when machines enter or exit designated areas. Tracking logistics enables the user to anticipate routine tasks like refueling. To help reduce downtime, the system plots a machine's exact position on the map so it can be quickly located.

### INTERNAL MEMORY

If a machine leaves a GPRS coverage area, the onboard module will record its location and performance data for up to 50 hours and transfer the information once the machine reenters a coverage area.

### EFFICIENCY

Managers using AGCOMMAND can monitor multiple fleets from off-site locations. Operations that have numerous locations and projects can utilize logistics to minimize downtime by having instant tractor performance data.



Bottom line, the high-horsepower Challenger MT500D Series tractors are simply built to do more. That's why all models are equipped with an electronic three-point hitch, two remote hydraulic outlets and a three-way, electronically controlled PTO system. If you've got extreme power needs, you can also add up to four hydraulic remotes and an optional front three-point hitch.

**HIGH-PERFORMANCE HYDRAULICS**

- Closed-center, pressure- and flow-compensated hydraulic system provides flow to multiple functions at up to 29 gpm (110 l/min) and 2,900 psi (200 bar)

**NEW HYDRAULIC CONTROLS MEAN SHORTER CYCLES, LESS FATIGUE**

- Programmable electro-hydraulic valve arrangement controlled by unique multi-function joystick makes for easy loader work
- Program flow and speed of all functions, then repeat them by simply moving the joystick

**FINGERTIP CONTROL OF MULTIPLE FUNCTIONS**

- Optional electronic remote hydraulic levers, sized and positioned for intuitive fingertip operation

**CUSTOMIZABLE HYDRAULIC SETTINGS**

- Optional TMC with Power Performance III software allows operator to regulate the flow rate for lifting and lowering, adjust the actuation time and lock/unlock each remote, simply by using touch keys and rotary dial

**SERIOUS HITCH PERFORMANCE**

- Some of the highest lift capacities in its class – up to 12,500 lbs. – depending on the transmission
- Transport lock easily secures implements in the raised position, while the hydraulic rams absorb shocks, leaving ride and steering unaffected

**CHOOSE THE PTO SETTING TO SUIT YOUR OPERATION**

- Electronically controlled 540/1000/540Eco PTO available on all models.

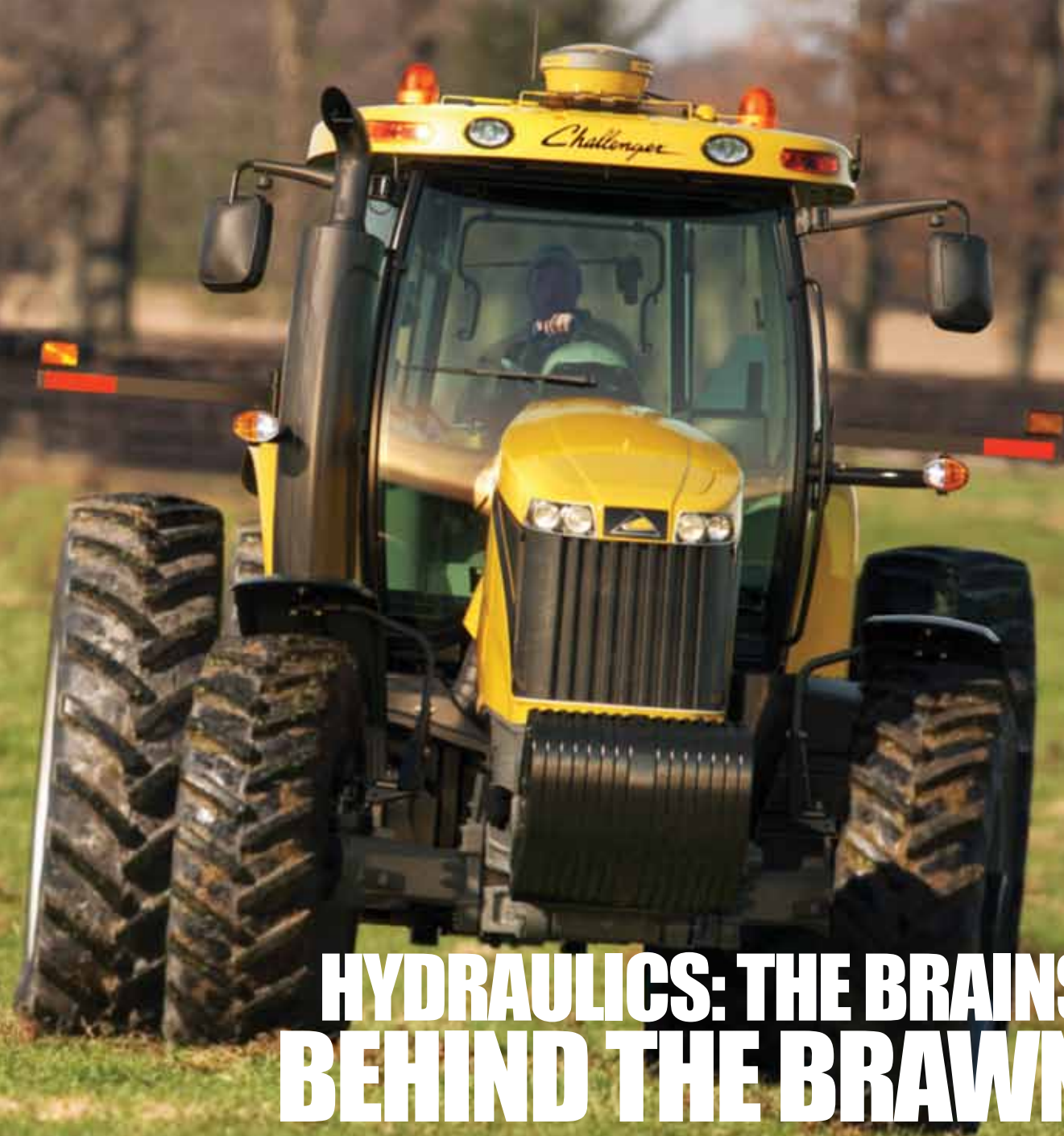
- Economy PTO setting reduces engine speed by 23% from 1,932 to 1,488 rpm on CVT versions, and by 19% from 1,890 to 1,524 rpm on Dyna-6 versions, when handling light loads, yet maintains full 540-rpm PTO shaft speed, which helps reduce fuel usage, noise and vibration

**OPTIONAL FRONT THREE-POINT HITCH**

- Front three-point hitch option integrated into the tractor mainframe delivers greater strength and a more compact profile.
- Equipped with Category 3 fixed ball end links with Category 3 Quick Hitch to handle implements like cultivators, plows and fertilizer tanks
- Front linkage has standard lift capacity of 8,800 lbs.







**HYDRAULICS: THE BRAINS  
BEHIND THE BRAWN**





*Challenger*



# MADE FOR WORKDAYS THAT DON'T END WHEN THE DAYLIGHT DOES

Pre-dawn and post-dusk work is no problem with the full bank of hi/lo halogen work lights you'll find on the MT500D Series. Standard equipment includes two headlamps, two front and two rear double-element work lights. The convenient touchpad makes it easy to select the optimum exterior lighting combination for any job or condition.

Other features include taillights, flashing amber warning lights and turn signals. One or two rotating beacons are also available as an option.

For even more nighttime flexibility, opt for Challenger's Nightbreaker™ HID lighting package, with HID Xenon lights for more pure white light and up to 30% greater nighttime visibility.

## **A PANORAMIC VIEW ANY TIME OF DAY**

With 61 sq. ft. (5.6 m<sup>2</sup>) of usable glass area, a contoured, sloping hood, two

large, telescoping side mirrors and an inside mirror, there's nothing you can't see in front of you, at your side or behind you.

For more convenience, choose the optional side mirrors with electrical in-cab adjustment and electric de-icing.

## **MAINTENANCE IS EASY**

The smooth, curved lines of the streamlined, one-piece hood give the MT500D Series a powerful and dynamic look. More important, it gives operators easy lift-up access to the engine and cooling system.

- No side panels
- Easy-to-reach batteries, out of harm's way
- Hydraulic and transmission oil level sight gauges positioned for checking at a glance

- Fuel tank filler location designed to let you fill up while standing on the ground
- Convenient outside access lets you remove cab air filter from cab steps.

## **INNOVATIVE AIR CLEANER/ COOLING PACKAGE**

A new cooling package, used in conjunction with the Tier 4i engine, provides greater surface area for better cooling capacity, better sealing from outside dust and easier maintenance.

- Fixed-mounted intercooler, oil coolers, air conditioning condenser and radiator, allow for complete access and easy cleaning
- Redesigned engine air cleaner positioned at the front for simple access
- Cassette-type air filter for high-speed maintenance



# WE DIDN'T BUILD THE WORLD'S BEST TRACTOR TO DROP THE BALL ON SUPPORT

When you buy a Challenger tractor, you're buying more than a piece of farm equipment. You're buying the peace of mind that comes from a job well done, and a machine well built.

Take a closer look at the MT500D Series at your local Challenger dealership, and you'll see that – down to the smallest detail – it's built to the highest standards.

## DEALERS AND SERVICE: ABOVE AND BEYOND

For 365 days a year, day and night, under the most adverse conditions, our dealer network keeps North America's agribusiness in motion. Our dealers are second to none in on-location service. And their factory-trained technicians work as hard at preventing problems as they do repairing them. With more mobile service trucks loaded with more diagnostic equipment than most repair shops, it's little wonder the army of Challenger loyalists continues to grow. Combine this quality service with

AGCO's 24-hour-a-day parts network and you get the gold standard in dealer support.

## CHALLENGER FINANCING

We know financing is as much a part of your purchase decision as the features and benefits of the machine. So 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 Challenger dealer.

## MAXIMUM WARRANTY COVERAGE

As a Challenger tractor owner, you get full warranty protection for two years or

2,000 hours, whichever comes first. An Extended Service Plan is also available, assuring you of additional support from your Challenger dealer.

## HIGHER RESALE VALUE

Quality equipment demands a premium price, particularly when there's no competition. Fortunately, the new MT500D Series tractors are extremely cost-competitive, considering their advanced innovation. Plus you can be confident the technology built into these tractors, along with our long-term dealer support, will do nothing but help retain their value long into the future.

When you combine seriously evolved machinery with seriously dedicated dealers, you get long-lasting value.







MODELS	MT555D	MT565D	MT575D	MT585D
<b>ENGINE PERFORMANCE (CVT &amp; AUTOPOWER VI)</b>				
PTO HP @ 2,100-rated engine rpm (kW)	140 (104)	150 (112)	165 (123)	180 (134)
ISO engine HP @ 2,100-rated engine rpm (kW)	170 (127)	185 (138)	200 (149)	220 (164)
Maximum ISO engine HP @ 1,950 engine rpm (kW)	185 (138)	200 (149)	215 (160)	235 (175)
<b>ENGINE</b>				
Rated speed (rpm)	2,100			
Maximum torque rise	35%			
Maximum power bulge	15 hp			
Type	AGCO POWER™ with e3 clean air technology			
Model	66 CTA	66 CTA	66 CTA (TechStar) 74 CTA (AutoPower VI)	74 CTA
Number of cylinders	6			
Aspiration	Turbocharged with air/air intercooler			
Displacement liters (CID)	6.6 (402)	6.6 (402)	6.6 (402) / 7.4 (452)	7.4 (452)
Compression Ratio	6.6 = 17.4:1 7.4 = 17.8:1			
Fuel Injection System	Bosch High Pressure Common-Rail, Electronic; Injectors with Variable Injection Timing and Duration			
Fuel	Diesel			
Fuel Filter	Replaceable Filter - 30µ Prefilter - 5µ Main Filter			
Lubrication System	Gear Pump at Bottom of Timing Gear			
Oil Filter	Single, Spin On			
Starting Aid	Thermostart			

ALL MODELS	
<b>ELECTRICAL SYSTEM</b>	
Battery	12V (X2)
Alternator	175 Amps
ISO BUS Connector	50 Amps <i>(ISOBUS not offered on Classic)</i>
<b>TRANSMISSION – TECHSTAR CVT (CONTINUOUSLY VARIABLE TRANSMISSION)</b>	
Clutches	None
Field Speed Range – mph (km/h)	0.02 - 17 (0.03 - 28 ) Forward / 0.02 - 10 (0.03 - 16) Reverse
Road speed range – mph (km/h)	0.02 - 25 (0.03 - 40 ) Forward / 0.02 - 24 (0.03 - 38) Reverse
Optional road speed range – mph (km/h)	0.02 - 31 (0.03 - 50 ) Forward / 0.02 - 24 (0.03 - 38) Reverse
Forward Speeds	Infinite
Cruise Control Speeds	2
<b>TRANSMISSION – AUTOPOWER VI (PARTIAL POWERSHIFT)</b>	
Clutches	5 discs
Ranges	4 Ranges / 6 Powershifts
Road speed range – mph (km/h)	25 (40) - 31 (50)
Forward Speeds	24 Forward / 24 Reverse
Cruise Control Speeds	2

ALL MODELS	
<b>BRAKES AND FINAL DRIVES</b>	
Type of Final Drives	Inboard Planetary
Type of Brakes	Wet Disc
Brake Actuation	Hydraulic
Pneumatic Trailer Brakes psi (bar) - Optional	94 – 116 (6.5 – 8)
Hydraulic Trailer Brakes psi (bar) - Optional	0 – 2,175 (0 – 150)
<b>HYDRAULICS</b>	
System type	Closed Center Load Sensing (CCLS)
Total flow rate - US standard gallon (L)	29 (110); optional – 39 (150)
Maximum pressure PSI (bar)	2,900 (200)
Available flow rate per spool valves gpm (L/min)	24.3 GPM (92 LPM)
Remotes	
Classic – standard	1-2-3 Mechanical
Classic – optional	4th mechanical
Deluxe – standard	1-2 electric fingertips (joystick optional), 3-4 mechanical
Premium – standard	1-2-3-4 electric, all fingertips (joystick optional on 1-2)
Premium – optional	5th electric valve option on Premium AutoPower VI model only, 1-2 electric joystick
Hydraulic Couplers	Decompression Couplers with Connect/Disconnect Under Pressure Function
Coupler Size	ISO 1/2"
<b>STEERING WHEEL</b>	
Steering Wheel	Tilt and Telescopic
Tru Trak	Standard on Deluxe and Premium versions
<b>REAR AXLE</b>	
AutoPower VI (MT555D and MT565D)	95 mm bar axle Long Bar – 2847 mm, Short Bar – 2144 mm
AutoPower VI (MT575D)	95 mm bar axle Long Bar – 2847 mm, Short Bar – 2138 mm
AutoPower VI (MT585D)	110 mm bar axle Long Bar – 2202 mm, Short Bar – 3002 mm
CVT	95 mm bar axle Long Bar – 2869 mm, Short Bar – 2277 mm
Differential Lock - Full-locking, Electro-hydraulic	Standard
<b>FRONT AXLE</b>	
2-wheel drive	N/A
4-wheel drive differential lock	Full-locking, electrohydraulic standard
4-wheel drive maximum steering angle	55°
Quadlink front axle suspension	Standard on Deluxe and Premium versions
Quadlink differential lock	Full-locking, electrohydraulic
<b>THREE-POINT HITCH - REAR</b>	
Category 3 With Fixed Ball End Links with Cat 3 Quick Hitch	Standard
Category 3 With Fixed Ball End Links without Quick Hitch	Optional
Stabilizers	Rub Block on AutoPower VI, Variable Telescoping on TechStar CVT
Lift Capacity 24" back of the pin	12,500 for AutoPower VI models, 11,650 for all TechStar CVT models



ALL MODELS		
<b>DRAWBAR</b>		
Category 2 with Clevis	Standard	
<b>PTO</b>		
Speeds - standard rpm	Classic base - 540/1000, Deluxe and Premium Base - 540/1000/540E	
Engagement	Electro-hydraulic	
540e/1000e/1000	Optional on Deluxe & Premium AutoPower VI versions	
Shaft Diameter in (mm)	1.375 in (35mm) shaft, 6 & 21 spline	
PTO Options	540/540e/1000 (all) 540/1000 (Classic AutoPower VI only) 540e/1000e/1000 (Deluxe/Premium AutoPower VI only)	
PTO – Engine Speed	AutoPower VI	CVT
	540 – 1890	540 – 1932
	540e – 1524	540e – 1488
	1000 – 2000	1000 – 1903
	1000e – 1595	1000e – NA
<b>OPERATOR AREA</b>		
Cab volume – ft³ (m³)	100.9 (2.86)	
Cab glass area – ft² (m²)	63 (5.86)	
Noise level dB(A)	70	
OptiRide™ Plus hydraulic suspended cab	Standard on Deluxe and Premium versions	
Operator seat - air suspension	Standard	
Operator Seat – Deluxe	Optional	
Sears Deluxe Seat	Optional	
Transmission Control(s)	Right Console/Armrest	
Forward Control(s)	Left-hand Control	
Cab Doors (2)	Standard	
TMC Display	Standard on Deluxe and Premium versions	
<b>GUIDANCE SYSTEM</b>		
Auto-Steering Ready with Topdock Included and Tractor Management Center (TMC)	Standard on Premium Models, Optional on Deluxe Models	
Digital Instrument Panel, No TMC Display	Standard on Classic, Optional on Deluxe	
Auto-Steering Ready without Topdock with Tractor Management Center (TMC)	Standard on Deluxe models, Optional on Premium models	
<b>CAPACITY</b>		
Fuel tank capacity US gallon (L) with e3 technology	114 (431 L)	
DEF (AdBlue) usable tank capacity US gallon (L) (optional)	11 (40 L)	
Hydraulic Reservoir Capacity Gallon (L)	26.4 (100)	
<b>DIMENSIONS &amp; WEIGHT*</b>		
Wheelbase in (mm)	117.8 (2,993) [MT585D = 117.0 (2,972)]	
Overall Length in (mm)	200.2 (5,084)	
Maximum Height Over Cab in (mm)	With 480/80R42 (Base on MT555D, MT565D & MT575D), 120.8 (3068) With 480/80R46 (Base on MT585D), 122.8" (3,118) Add 6.6" (167mm) if Topdock is installed	
Approx. Shipping Weight lbs (kg)	17,000 (7,700)	
Max. Allowable Weight lbs (kg)	27,560 (12,500)	

\* All dimensions measured with Dual 480/80R46 and 420/90R30 front tires



## 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.

Work with your local AGCO Dealer to find the equipment and financing program that best matches your operating and cash flow needs. You can also contact AGCO Finance directly at 888-989-8525 or [AGCOfinance.com](http://AGCOfinance.com)

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

(877) 525-4384 [AGCOanswers@AGCOcorp.com](mailto:AGCOanswers@AGCOcorp.com)

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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