

Challenger MT500B

# Challenger<sup>®</sup> MT500B



We're up to  
**The Challenge**

**MT500B SERIES**  
100 TO 160 PTO HP

# SPECIFICATIONS

## Challenger MT500B Series

With more models, more power and better performance than ever before, the redesigned Challenger® MT500B Series is the ultimate business machine for any operation.

### Engine

The redesigned Challenger MT500B Series features a powerful new CAT® ACERT™ C6.6 Tier 3 diesel in all six models. For better access and easier service, all models also feature a styled one-piece hood that lifts to reveal a flip-up cooling kit and a new air cleaner that uses a compact, cassette-type element.

### Transmission

Take your choice of two award-winning transmissions. Select the new AutoPower™ VI with 24 forward and 24 reverse gears and a top speed of 25 mph (40 kph) at only 1800 engine rpm or the proven TechStar™ CVT that offers stepless speed choices from 0 to 32 mph (50 kph) with the available Quadlink™ front axle suspension system.

### Hydraulics

A closed-center pressure and flow-compensated hydraulic system with 29 gallons per minute (110 L/min.) of hydraulic flow is standard for maximum efficiency and performance. Choose the Touchmaster™ system that offers joystick control or opt for the electro-hydraulic fingertip valve control system, depending upon preference.

### PTO

All MT500B Series tractors feature dual speed, 540/1000 rpm PTO with an economy PTO feature as standard equipment. When operating equipment that does not require maximum horsepower, economy PTO allows the engine speed to be reduced 23%, yet maintain full PTO shaft speed, saving fuel and reducing in-cab noise.

		<b>MT525B</b>	<b>MT535B</b>	<b>MT545B</b>
<b>ENGINE</b>	Model	Caterpillar C6.6 ACERT™	Caterpillar C6.6 ACERT™	Caterpillar C6.6 ACERT™
	PTO HP (kW)	100 (74.6)	110 (82.0)	120 (89.5)
	Type	In-line, liquid-cooled diesel	In-line, liquid-cooled diesel	In-line, liquid-cooled diesel
	# Cylinders / Displacement - CID (L)	6 / 403 (6.6)	6 / 403 (6.6)	6 / 403 (6.6)
	Rated Speed - rpm	2200	2200	2200
	Aspiration	Turbocharged and aftercooled	Turbocharged and aftercooled	Turbocharged and aftercooled
	Bore / Stroke - in (mm)	4.14 (105) / 5.00 (127)	4.14 (105) / 5.00 (127)	4.14 (105) / 5.00 (127)
	Fuel System	Common Rail	Common Rail	Common Rail
<b>CAPACITIES</b>	Fuel Tank - gal (L)	71 (270)	71 (270)	71 (270)
	Cooling System - gal (L)	6.73 (25.5)	6.73 (25.5)	6.73 (25.5)
	Hydraulic System - gal (L)	18.5 (70)	18.5 (70)	18.5 (70)
	TechStar CVT - gal (L)	14.8 (56)	14.8 (56)	14.8 (56)
	Hydraulic System CVT - gal (L)	26.4 (100)	26.4 (100)	26.4 (100)
<b>TRANSMISSION</b>	<b>TechStar CVT</b>			
	Speed Range - mph (kph)	0.01 to 25 (.03 to 40)	0.01 to 25 (.03 to 40)	0.01 to 25 (.03 to 40)
	Optional Speed Range	0.01 to 32 (.03 to 50)	0.01 to 32 (.03 to 50)	0.01 to 32 (.03 to 50)
	<b>AutoPower VI</b>			
	Speed Range - mph (kph)	1.01 to 25 (1.62 to 40)	1.01 to 25 (1.62 to 40)	0.01 to 25 (.03 to 40)
<b>AXLES</b>	Optional 4:1 Creeper - mph (kph)	0.28 to 25 (0.44 to 40)	0.28 to 25 (0.44 to 40)	0.28 to 25 (0.44 to 40)
	<b>Front</b> 2WD AutoPower VI only	Box in Box / 2WD	Box in Box / 2WD	Box in Box / 2WD
	MFWD	Center Pivot, MFD	Center Pivot, MFD	Center Pivot, MFD
	Hydraulic Suspension	Optional	Optional	Optional
	<b>Rear Axle</b>			
Flange Axle	Standard (AutoPower VI Only)	Optional (AutoPower VI Only)	Optional (AutoPower VI Only)	
Bar Axle	Standard (TechStar CVT Only)	Standard	Standard	
Tread width - 18.4 Tires - in (mm)	60 to 88 (1524 to 2235)	60 to 88 (1524 to 2235)	60 to 88 (1524 to 2235)	
Long Bar Axle	60 to 110 (1524 to 2794)	60 to 110 (1524 to 2794)	60 to 110 (1524 to 2794)	
<b>BRAKES</b>	Rear Brakes	Hydraulic wet multi-disc	Hydraulic wet multi-disc	Hydraulic wet multi-disc
	Front Brakes AutoPower	4WD Pack	4WD Pack	4WD Pack
	Front Brakes TechStar CVT	Wet brakes on cardan shaft	Wet brakes on cardan shaft	Wet brakes on cardan shaft
<b>INDEPENDENT PTO</b>	Type	Electronically controlled	Electronically controlled	Electronically controlled
	540/540E/1000 - 1.375" (35mm) TechStar CVT	Standard	Standard	Standard
	540/540E/1000/1000E - 1.375" (35mm) AutoPowerVI	Standard	Standard	Standard
<b>ELECTRICAL SYSTEM</b>	Alternator	120 amp.	120 amp.	120 amp.
	Batteries	(2) 600 SAE cca 12-V	(2) 600 SAE cca 12-V	(2) 600 SAE cca 12-V
<b>HYDRAULIC SYSTEM</b>	Type	Pressure/flow compensated	Pressure/flow compensated	Pressure/flow compensated
	Remotes - std (opt)	2 (4)	2 (4)	2 (4)
	Max. Pressure - PSI (BAR)	2900 (200)	2900 (200)	2900 (200)
	Total Flow - gpm (lpm)	29 (110)	29 (110)	29 (110)
	Control	Electronic	Electronic	Electronic
<b>3-POINT HITCH</b>	Control	Electronic	Electronic	Electronic
<b>CAT. 2/3, ADJUSTABLE LINKAGE</b>	AutoPower VI	7152 (3244)	8923 (4047)	8923 (4047)
<b>LIFT CAPACITY @ 24" - LB (KG)</b>	TechStar	10915 (4950)	10915 (4950)	10915 (4950)
<b>FRONT HITCH (OPTIONAL)</b>	Capacity - lb (kg)	6100 (2800)	6100 (2800)	6100 (2800)
<b>FRONT PTO</b>	1000 RPM - 1.375" (35mm)	Optional	Optional	Optional
<b>STEERING</b>	Type	Full power hydrostatic	Full power hydrostatic	Full power hydrostatic
<b>DIMENSIONS</b>	Wheelbase - in (mm)	111.3 (2827)	111.3 (2827)	111.3 (2827)
	Minimum Width - in (mm)	81.1 (2060)	81.1 (2060)	81.1 (2060)
	Height Top Cab - in (mm)	112.8 (2865)	112.8 (2865)	112.8 (2865)
	Overall Length - in (mm)	182.2 (4628)	182.2 (4628)	182.2 (4628)
	Under Drawbar Clearance - in (mm)	15.4 (392)	15.4 (392)	15.4 (392)
	Shipping Weight - lb (kg) / AutoPower 2WD	11052 (5013)	11052 (5013)	11052 (5013)
	Shipping Weight - lb (kg) / AutoPower AWD	11546 (5237)	11949 (5420)	11949 (5420)
	Shipping Weight - lb (kg) / TechStar	13084 (5935)	13410 (6083)	13410 (6083)

\*Estimated shipping weight, single rear wheels

		<b>MT555B</b>	<b>MT565B</b>	<b>MT575B</b>
<b>ENGINE</b>	Model	Caterpillar C6.6 ACERT™	Caterpillar C6.6 ACERT™	Caterpillar C6.6 ACERT™
	PTO HP (kW)	130 (96.9)	145 (108.1)	160 (119.3)
	Type	In-line, liquid cooled diesel	In-line, liquid-cooled diesel	In-line, liquid-cooled diesel
	# Cylinders / Displacement - CID (L)	6 / 403 (6.6)	6 / 403 (6.6)	6 / 403 (6.6)
	Rated Speed - rpm	2200	2200	2200
	Aspiration	Turbocharged and aftercooled	Turbocharged and aftercooled	Turbocharged and aftercooled
	Bore / Stroke - in (mm)	4.14 (105) / 5.00 (127)	4.14 (105) / 5.00 (127)	4.14 (105) / 5.00 (127)
	Fuel System	Common Rail Electronically controlled	Common Rail Electronically controlled	Common Rail Electronically controlled
<b>CAPACITIES</b>	Fuel Tank - gal (L)	98 (370)	98 (370)	98 (370)
	Cooling System - gal (L)	6.73 (25.5)	6.73 (25.5)	6.73 (25.5)
	Hydraulic System - gal (L)	18.5 (70)	18.5 (70)	18.5 (70)
	TechStar CVT - gal (L)	15.3 (58)	15.3 (58)	15.3 (58)
	Hydraulic System CVT - gal (L)	26.4 (100)	26.4 (100)	26.4 (100)
<b>TRANSMISSION</b>	<b>TechStar CVT</b>			
	Speed Range - mph (kph)	0.01 to 25 (.03 to 40)	0.01 to 25 (.03 to 40)	0.01 to 25 (.03 to 40)
	Optional Speed Range	0.01 to 32 (.03 to 50)	0.01 to 32 (.03 to 50)	0.01 to 32 (.03 to 50)
	<b>AutoPower VI</b>			
	Speed Range - mph (kph)	1.01 to 25 (1.62 to 40)	1.01 to 25 (1.62 to 40)	0.01 to 25 (.03 to 40)
	Optional 4:1 Creeper - mph (kph)	0.28 to 25 (0.44 to 40)	0.28 to 25 (0.44 to 40)	0.28 to 25 (0.44 to 40)
<b>AXLES</b>	<b>Front</b> 2WD AutoPower VI only	Box in Box / 2 WD	Box in Box / 2 WD	Box in Box / 2 WD
	MFWD	Center Pivot, MFD	Center Pivot, MFD	Center Pivot, MFD
	Hydraulic Suspension	Optional	Optional	Optional
	<b>Rear Axle</b>			
	Flange Axle	N/A	N/A	N/A
	Bar Axle	Standard	Standard	Standard
Tread Width - 18.4 Tires - in (mm)	60 to 88 (1524 to 2235)	60 to 88 (1524 to 2235)	60 to 88 (1524 to 2235)	
Long Bar Axle	60 to 120 (1524 to 3048)	60 to 120 (1524 to 3048)	60 to 120 (1524 to 3048)	
<b>BRAKES</b>	Rear Brakes	Hydraulic wet multi-disc	Hydraulic wet multi-disc	Hydraulic wet multi-disc
	Front Brakes AutoPower	4WD pack	4WD pack	4WD pack
	Front Brakes TechStar CVT	Wet brakes on cardan shaft	Wet brakes on cardan shaft	Wet brakes on cardan shaft
<b>INDEPENDENT PTO</b>	Type	Electronically controlled	Electronically controlled	Electronically controlled
	540/540E/1000 - 1.375" (35mm)	Standard	Standard	Standard
<b>ELECTRICAL SYSTEM</b>	Alternator	150 amp.	150 amp.	150 amp.
	Batteries	(2) 600 SAE cca 12-V	(2) 600 SAE cca 12-V	(2) 600 SAE cca 12-V
<b>HYDRAULIC SYSTEM</b>	Type	Pressure/flow compensated	Pressure/flow compensated	Pressure/flow compensated
	Remotes - std (opt)	4 (5)	4 (5)	4 (5)
	Max. Pressure - PSI (BAR)	2900 (200)	2900 (200)	2900 (200)
	Total Flow - gpm (lpm)	29 (110)	29 (110)	29 (110)
<b>3-POINT HITCH</b>	Control	Electronic	Electronic	Electronic
<b>CAT. 2/3, ADJUSTABLE LINKAGE</b>	AutoPower VI	15240 (6913)	15240 (6913)	15240 (6913)
<b>LIFT CAPACITY @ 24" - LB (KG)</b>	TechStar	14283 (6479)	14283 (6479)	14283 (6479)
<b>FRONT HITCH (OPTIONAL)</b>	Lift Capacity - lb (kg)	8800 (4000)	8800 (4000)	8800 (4000)
<b>FRONT PTO</b>	1000 RPM - 1.375" (35mm)	Optional	Optional	Optional
<b>STEERING</b>	Type	Full power hydrostatic	Full power hydrostatic	Full power hydrostatic
<b>DIMENSIONS</b>	Wheelbase - in (mm)	113.8 (2890)	113.8 (2890)	113.8 (2890)
	Minimum Width - in (mm)	81.1 (2060)	81.1 (2060)	81.1 (2060)
	Height Top of Cab - in (mm)	122.8 (3118)	122.8 (3118)	122.8 (3118)
	Overall Length - in (mm)	190.6 (4842)	190.6 (4842)	190.6 (4842)
	Under Drawbar Clearance - in (mm)	17.4 (440)	17.4 (440)	17.4 (440)
	Shipping Weight - lb (kg) / AutoPower 2WD	15000 (6800)	15000 (6800)	15000 (6800)
	Shipping Weight - lb (kg) / AutoPower AWD	16100 (7300)	16100 (7300)	16100 (7300)
	Shipping Weight - lb (kg) / TechStar	16400 (7440)	16400 (7440)	16400 (7440)

## Standard Equipment

- Caterpillar C6.6 ACERT™ Engine
- Closed Center Load-Sensing Hydraulics
- Flow Control on All Valves
- Total Flow of 29 GPM (110 LPM)
- Power Beyond; Pressure, Return and Load Sensing
- Lower Link Pin Sensing w/Electronic Lift Control
- Active Transport Control (ATC)
- Left and Right Side External Lift Controls
- 3-Point Linkage: Category II/III Adjustable Linkage with Mechanical Leveling
- Economy PTO
- Standard-Duty Drawbar with Clevis
- Double Element Halogen Work Lights
- Deluxe Cab with Heater and A/C
- Rear View Mirror and two Exterior Telescopic
- Side View Mirrors
- Tilt and Telescopic Steering Column
- In Cab Electrical Socket
- Air Suspended Swivel Seat with Vertical Height and Backrest Angle Adjustment, Fore/Aft and Side/Side Isolators, Lumbar Support, Seat Belt and Adjustable Left Armrest
- Instructors Seat with Seat Belt
- Shielded Center Line Drive with Electro-Hydraulic Control of Front Wheel Drive and Front Wheel Drive Differential Lock
- Toolbox
- Front Weight Frame
- SMV Identification Emblem
- Molded Rear Fenders
- Drilled Engine Side Rails

## Optional Equipment

- Factory Fitted Auto-Guide Provisions
- Pneumatic Cab Suspension
- Super Deluxe Semi-Active Seat
- External Camera option
- Automatic Air Conditioning/Climate Control
- Large Telescoping Side Mirrors with Electrical Adjustment and Electric De-Icing
- Hydraulic Trailer Brakes
- Front 3-Point Hitch
- Xenon Work Lights
- ISOBUS Provision (requires Console 1)
- Rotating Beacons
- Pivoting Front Fenders
- Additional Electrical Socket in Cab
- Rear Window Washer/Wiper
- Front Belly Weight
- Front Suitcase and Wheel Weights
- 4:1 Creeper Reduction on Auto-Power VI models
- Techstar CVT
- Continuously Variable Transmission with Dual Lever Control
- Integrated tractor Control System with Fingertip Control
- Quick Hitch, Category II/III
- Power Performance Display III with color screen and 21 function headland management and full spool valve management.
- Console 1 with Video Input
- Front PTO (requires Front Hitch)



## 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](http://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.