



# *Challenger*<sup>®</sup>

## **MT 500B Series**

The Challenger MT 500B sets a new standard in performance, comfort and control among multi-purpose, row-crop tractors. Five new models cover the range between 95 and 145 PTO horsepower, giving you the power and agility to handle a wide variety of operations, including tillage, cultivation, loader work, mowing and utility work.

Additionally, the MT 500B Series really excels in comfort and convenience. New features, found only on the B Series, include an advanced heating and cooling system with the option of automatic climate control; ergonomic controls that are grouped by function; a touch-pad control center for exterior lighting, and reduced in-cab sound levels of 71 dba for the quietest cab in its class.

New options, which further enhance performance, include a dual-stage cab suspension system and front axle suspension. Used in conjunction with the innovative TechStar transmission, they not only improve comfort and productivity, but permit travel speeds of up to 32 mph.

# MT 500B Series

## 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 (Inches / MM)	3.94 / 100	3.94 / 100	3.94 / 100	3.94 / 100	3.94 / 100
Stroke (Inches / MM)	5.0 / 127	5.0 / 127	5.0 / 127	5.0 / 127	5.0 / 127
# Cylinders	6	6	6	6	6
<b>FUEL TANK CAPACITY</b>					
Cab (US Gal / L)	71.3 / 270	71.3 / 270	71.3 / 270	71.3 / 270	71.3 / 270
<b>TRANSMISSIONS</b>					
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 (0 to 32 mph) (0 to 50 kph)	Infinite (0 to 32 mph) (0 to 50 kph)	Infinite (0 to 32 mph) (0 to 50 kph)	Infinite (0 to 32 mph) (0 to 50 kph)	Infinite (0 to 32 mph) (0 to 50 kph)
<b>BRAKES</b>					
Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
<b>POWER TAKE-OFF (PTO)</b>					
Speeds rpm	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc
	Independent	Independent	Independent	Independent	Independent
<b>HYDRAULIC SYSTEM</b>					
Type	540/1000/Economy	540/1000/Economy	540/1000/Economy	540/1000/Economy	540/1000/Economy
# remotes std./opt.	PFC	PFC	PFC	PFC	PFC
Max. Pressure (PSI/Bar)	2/up to 4	2/up to 4	2/up to 4	2/up to 4	2/up to 4
Std. Output	2900 / 200	2900 / 200	2900 / 200	2900 / 200	2900 / 200
<b>3-POINT HITCH</b>	29	29	29	29	29
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
<b>DIMENSIONS</b>					
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



## Unmatched Versatility

We challenge you to find more power and productivity in a row-crop tractor. The unique versatility of the MT 500B Series starts with a rugged 366 cu. in. Caterpillar diesel engine in each model. What really sets the MT 500B Series apart, though, is the choice of two industry-leading transmissions.

The AutoPower IV transmission combines a 4-speed powershift with an 8-speed synchromesh gearbox and offers such innovative features as automatic shifting and speed matching.

Or choose the new TechStar CVT (continuously variable transmission), which puts infinite speed control at your fingertips. Select virtually any ground speed from 0 to 32 mph (when also equipped with front axle suspension) and the TechStar CVT automatically adjusts for the most efficient combination of engine speed and transmission ratio to match the job. The system even allows you to preset two preferred working speeds via a pair of speed/velocity dials. You can even select the speed at which the tractor makes forward/reverse direction changes.