

Challenger SPECIALTY WHEEL TRACTORS

# Challenger<sup>®</sup> SPECIALTY WHEEL TRACTORS



We're up to  
**The Challenge**

**SPECIALTY SERIES**

45 TO 240 PTO HP

# Serious Machinery

## for serious applications



Governmental and industrial applications call for one tough machine... whether the job is mowing roadside ditches, powering a broom or towing a scraper. Fortunately, Challenger® offers a special line of wheel tractors that are up to the challenge.

Choose from more than 20 different specialized models that range from 45 to 240 PTO horsepower. Select a special "BRU" or "BRM" model that integrates a customized MT400B or MT500B Series tractor with a Little & Company mower for a complete brush control system. Or pick a high-horsepower MT665B model with an all-inclusive scraper package. Take your machine to the next level, with innovative options like a municipal cab and puncture-resistant Michelin, Nokia or Trelleborg tires on roadside mowing models.

### Single-Point Support

If your company or agency owns or leases Caterpillar® equipment, you know that nobody commands more respect for its integrity, in-field service and parts support than the Cat® dealer network. The same philosophy applies to Challenger equipment, thanks to a partnership between AGCO Corporation and Caterpillar.

It all began in March 2002, when AGCO Corporation acquired the highly respected Challenger line of track tractors from Caterpillar Inc. and began expanding it into a full line of serious equipment. Today, the Challenger brand includes a complete line of wheel and track tractors from 23 to 570 engine horsepower, as well as a family of hay equipment and combines.

Your Cat dealer now offers a single point of contact for all your equipment needs, no matter the application. And that translates into less downtime and greater productivity.



Electro-hydraulically actuated differential lock offers on-the-go engagement for maximum productivity.

Category I/II 3-point hitch and SAE swinging drawbar offers compatibility with all implements.

The 15-8 total gpm (60 lpm) hydraulic system with two standard valves provides outstanding flow for loaders and towed implements.

A wide variety of wheels and tires, including R4 industrial and low-pressure "turf" tires, let you match the MT300B Series to the job.



Differential Lock Switch



Hitch



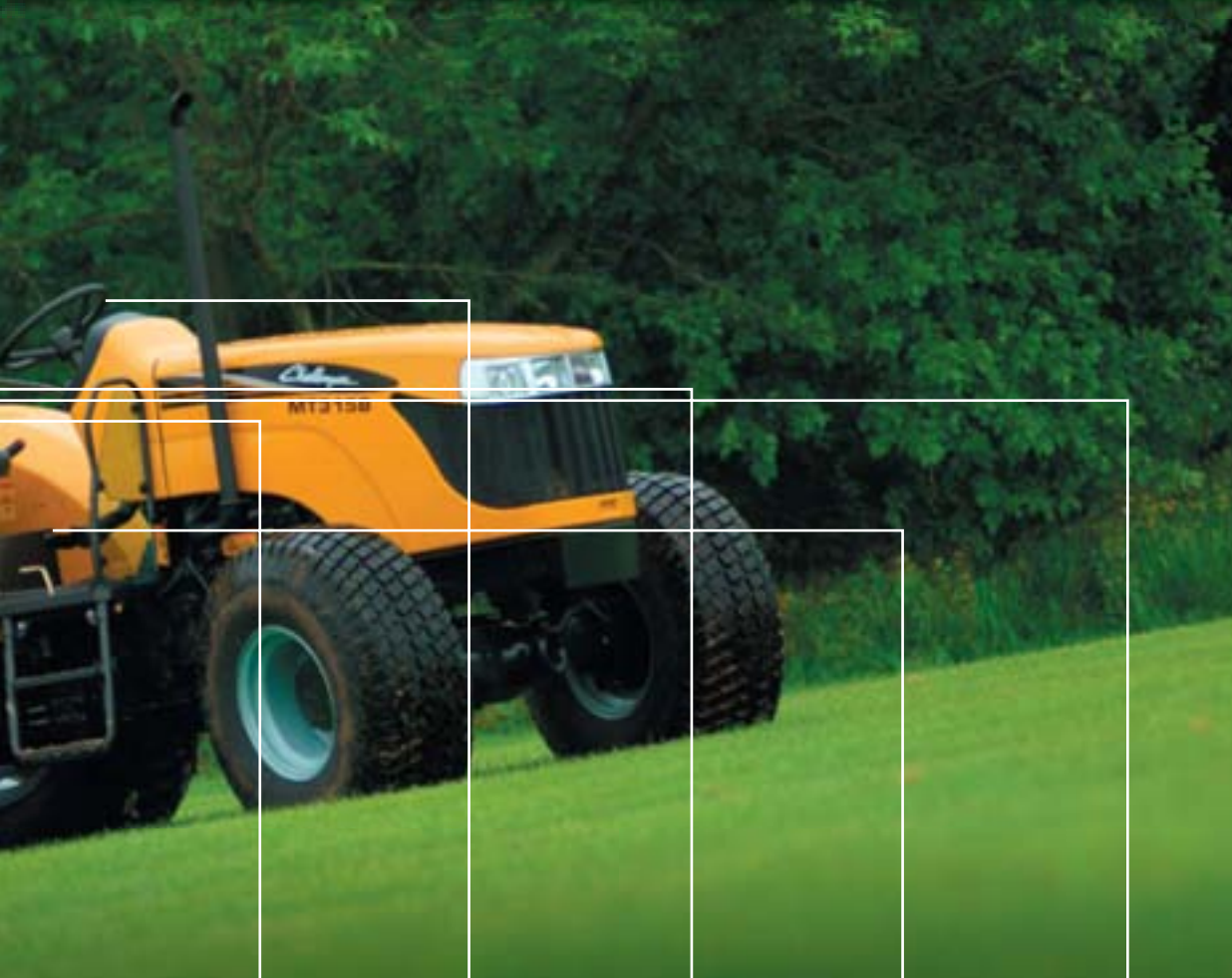
Valves



Ag Tires



"Turf" Tires



# MT300B

## light utility tractors

New to the Challenger line-up, the MT300B Series is a true middleweight champ that can handle highway mowing and loader work with equal ease. Available in four horsepower ranges, the MT300B tractors are powered by a powerful 3.3-liter, 3-cylinder diesel engine that is also turbocharged for maximum performance and fuel efficiency.

### Adaptable Transmission

Despite its compact, maneuverable size, the MT300B comes with a standard 12FX12R shuttle transmission for an equal number of gears in both forward and reverse. Reverse speeds are 15 percent slower than forward speeds for shorter cycle times and increased productivity.



Whether you choose the comfortable, open platform, or the roomy, ergonomic cab, the MT300B Series offers the kind of operator comfort that results in greater productivity.

### Responsive PTO

Although a 540 rpm PTO is standard on all MT300B models, those who use this versatile tractor for mowing and PTO applications might want to consider the optional 540/540E PTO. In light-duty applications, this economy minded option allows the operator to attain rated 540 rpm PTO speed at only 1,648 engine rpm. You'll not only save on fuel costs, but minimize operator fatigue and improve productivity by reducing noise levels.

Four-wheel braking on all-wheel-drive models activates at speeds greater than 8.5 mph, a feature normally only available on larger tractors.

Power shuttle allows even smoother shifting and the ability to Shift forward and reverse without the use of a clutch pedal.

Optional factory installed hydraulic joystick and two mid-mounted valves offer integrated ergonomics and superb loader control.

Hydraulically actuated, oil-cooled multi-disc brakes provide optimum efficiency and safety, yet require minimal maintenance.

The Power Shuttle transmission provides the added convenience of a push-button gearshift without the use of the clutch pedal. (Push, shift and go.)



R4 Tires    4-Wheel Drive Switch    Shuttle Lever    Joystick    Brake Pedals    Gearshift

# Challenger Integrated mowing systems

Never before has a tractor manufacturer taken the initiative to provide customers with a complete brush management solution, much less designed the tractor and mower as a single unit. However, that has changed with the introduction of six new Challenger® BRM and BRU models.

Now, through your local Cat dealer, you can attain single-source price bids, service, parts support and warranty protection. Most importantly, you receive a unit that has been built as an integral package, so you're assured of reliability, performance and adherence to the design parameters of both the tractor and mowing system.

## MT400B Series Tractors

Thanks to the excellent visibility, easy maneuverability and exceptional power-to-weight ratio, MT400B Series tractors—which serve as the base unit for all MT400BRU and MT400BRM models—are especially well suited for jobs like roadside mowing and brush management. Standard features on all models include:

- Rugged 4-cylinder, 4.4-liter (268 cu. in.) Caterpillar® diesel engine for legendary reliability and performance.
- AutoPower™ IV 16F/16R transmission offers four clutchless powershifts in four ranges for improved tractor and operator performance as well as a power shuttle for reduced cycle times.



- Total hydraulic flow of 34.8 gpm puts the MT400B up to 123 percent ahead of most competitors.
- Optional creeper transmission provides operating speeds down to 0.12 mph (0.2 kph) for even greater adaptability.



## MT400BRU Mowing Systems

Ideal for roadside mowing and brush management, MT400BRU models couple the rugged performance of a Little & Company two-piece boom with your choice of a PowerAxe flail head or rotary head in a 4- or 5-foot (1.22 - 1.52 m.) width.

- Support and stability come from the 1/2-inch (12.7 mm) thick steel Powerplate frame designed into the tractor. Equipped with top and bottom cross bracing, as well as vertical and horizontal bracing, it allows external forces to pass through the frame, and not the tractor chassis, ensuring durability and longer service life from all components.

- Articulated, two-piece Dynamx booms are fabricated from 100,000-psi yield strength and 130,000 psi tensile strength ASTM A514 steel with internal reinforcement, which minimizes twisting and flexing in the toughest conditions.



An isolation-mounted cab, compete with heating and air conditioning, front windshield wiper/washer and an adjustable steering column is standard on all MT400BR, MT400BRU and MT400BRM models. For additional comfort, an air-suspended seat is optional.

- A minimum 130 degrees of horizontal swing with breakaway protection in both forward and reverse directions.



- Boom movement provides a horizontal reach of 22 feet (6.7 m) out; a minimum of 17 feet (5.2 m) up, and 10 feet (3.1 m) down from the centerline of the tractor for unmatched flexibility.
- A 40-gpm PTO-driven hydraulic pump coupled to a powerful 50-horsepower hydraulic drive motor ensures plenty of power to drive the flail or rotary head. Oil is provided by a self-contained hydraulic system that includes its own 35-gallon (132.5 litre) reservoir and filter system. This allows the tractor hydraulics to operate boom movement without hesitation or stalling.
- MT445BRU - 72 PTO hp (52.2 kW) at 1000 RPM
- MT455BRU - 82 PTO hp (59.7 kW) at 1000 RPM
- MT465BRU - 95 PTO hp (67.1 kW) at 1000 RPM





“Just once, I’d like to find a tractor and mower that’s designed as a unit, instead of a pieced-together outfit. It’d be nice, too, if one dealer serviced and warranted the whole package.”

# VERSATILE



We're up to  
**The Challenge**

# MT500B

## series tractors

Today's fast-paced municipal and commercial workload often calls for a mid-sized tractor with the guts to handle the tough jobs, the comfort to enhance operator productivity and the technology to improve efficiency – all of this can be found in the MT500B.

Whether it serves as the base unit for an MT500BRM, or as the power unit for your batwing mower or loader operation, an MT500B offers everything you need.

### AutoPower VI

Six powershift ratios on the standard AutoPower™ VI transmission allow the operator to shift under full load within four mechanical robotized selected ranges for a total of 24 speeds in both forward and reverse. A rotary-dial Autodrive controller also provides automatic shifting based on the load and the desired engine speed. With the right speed for any situation, you'll cover more ground in less time and with less fuel.

Maximum road speed can even be achieved between 1,600 & 1,880 rpm for improved fuel economy and reduced noise levels.

### MT400BRM & MT500BRM Boom Mowers



Whether your needs call for the raw power of the 95 PTO HP MT465BRM or the performance of an MT500BRM model, Challenger has the answer to your brush-control assignment.

Choose any one of three available models and acquire the strength of a fully integrated Little & Company brushcutter system. Similar to the MT400BRU system, but built even heavier, the BRM boasts features that aren't even available on many competitive units.

- The 5/8-inch (15.9 mm) thick steel Powerplate frame, which includes both vertical and horizontal bracing, provides a solid foundation without restricting access to daily and preventative maintenance. Equally important, the Powerplate allows external forces to pass through the frame, and not the tractor chassis, ensuring durability and a longer service life from all components.
- The articulated, two-piece Dynamx booms are fabricated from 100,000-psi yield strength and 130,000 psi tensile strength ASTM A514 steel with internal reinforcement to prevent twisting and flexing, even in the toughest conditions.
- Minimum 140 degree swing breakaway protection from obstacles in both forward and reverse directions.
- Three boom lengths offer mowing reaches from 20 to 25 feet (6.1 to 7.6 m) to specifically match your local requirements.
- Boom reach provides a minimum of 19 feet up and 10 feet down from the centerline of the tractor for peak productivity with each pass.
- Booms retract the cutting head to within 24 inches of tractor tires for tight roadside conditions.



A single, primary grade, electronic joystick linked to an electronic proportional four-way hydraulic spool valve, provides simultaneous control of multiple boom functions.

- A patented, quick-change system permits simple and efficient flail blade changes in the field, reducing downtime and saving road travel back to the shop.
- The electronic joystick is equipped with an on/off switch to enable lockout for transport. The boom electronics also utilize a separate circuit breaker.
- A 52 gpm PTO-driven hydraulic pump linked to a powerful hydraulic drive motor provides a minimum of 60-horsepower to drive the flail or rotary head. Oil is supplied by a self-contained hydraulic system that includes its own 55-gallon (208 litre) reservoir and filter system. This allows the tractor hydraulics to operate boom movement without hesitation or stalling.

#### Three High-Performance Choices

- MT465BRM - 95 PTO hp (67.1 kW) at 1000 RPM
- MT525BRM - 105 PTO hp (70.8 kW) at 1000 RPM
- MT535BRM - 110 PTO hp (78.3 kW) at 1000 RPM



Take your choice of a PowerAxe flail head or rotary head on all MT400BRM and MT500BRM systems. Each is also available in a 4- or 5-foot cutting width.

- Rotary head deck and side skirts and flail head cowling are constructed of 1/4" (6.4 mm) T-1 steel for increased stability and a longer service life. Cowling side plates are 3/8" (9.5mm) steel.
- Flail models have 18 or 24 mounting stations, which accept various cutting blades with the ability to cut tree limbs, brush and heavy grass.

# Challenger SPECIALTY WHEEL TRACTORS



A choice between the AUtoPower™ VI or TechStar™ CVT lets you decide which transmission is best for your application.

Largest cab available on a tractor under 130 horsepower.

Six-cylinder, electronically fuel-injected Caterpillar® engines, recognized around the world for durability and reliability.

2WD or AWD only.

Optional front axle suspension system & 31 mph.



TechStar™ CVT



AutoPower™ VI



Cab



Engine



2WD



4WD



Suspension

# RMS

## roadside management system

### MT400BR/MT500BR Tractors Custom Design Your Own System

For those who wish to mount their own roadside mowing system on an MT400B or MT500B tractor, Challenger offers five different "BR" models. Each is shipped without rear hydraulics or the rear 3-point hitch typically found on tractors.

Like their counterparts, however, each model is available with a choice of transmissions and 2WD or all-wheel-drive. A bank of three hydraulic remotes is also available as a supplement to the swinging drawbar, for those who plan to tow a batwing mower or other towed implement.

#### Five Adaptable Models

- MT445BR - 72 PTO hp (52.2 kW) at 1000 RPM
- MT455BR - 82 PTO hp (59.7 kW) at 1000 RPM
- MT465BR - 95 PTO hp (67.1 kW) at 1000 RPM
- MT525BR - 105 PTO hp (70.8 kW) at 1000 RPM
- MT535BR - 110 PTO hp (78.3 kW) at 1000 RPM

As an option for adverse operating conditions, all MT400B and MT500B models can be ordered with welded steel rims and a choice of tires, including Michelin, Trelleborg or Nokia puncture-resistant selections, depending upon the tractor model.



INNOVATIVE







## Municipal viseo cab



A must for the serious roadside mower operator, the new Viseo municipal cab, offers a level of protection and visibility that is unmatched by anyone in the industry. Available only from Challenger on the MT525B and MT535B, it utilizes a one-piece, impact-resistant Plexiglas panel in place of the "B" post, window glass and side door on the right side of the cab. For all weather convenience, a wiper and sunshade are included as standard equipment.

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# MT600B

## series tractors

### TechStar CVT

Whether you acquire the TechStar™ CVT (continuously variable transmission) as standard equipment on an MT665B, or specify it as an option on an MT500BR or MT500BRM model, you won't find a better power train on any machine. The TechStar™ CVT is backed by more than a decade of research, development and production.

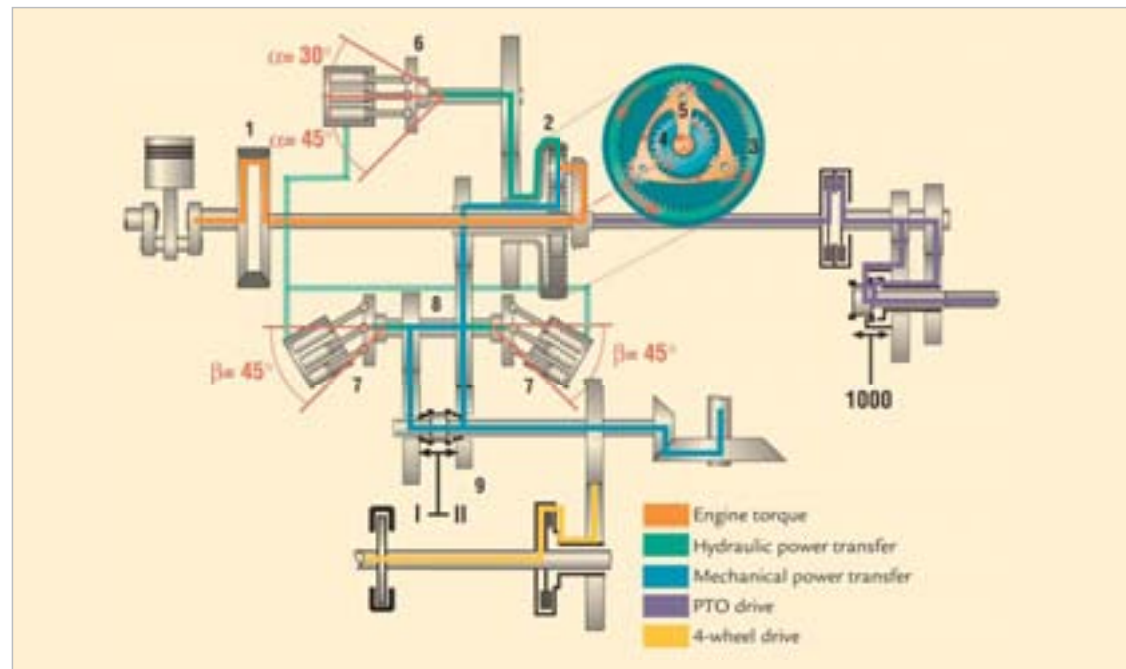
One pass with a TechStar-equipped MT500B or MT600B model and you'll quickly appreciate the infinite speed control that allows you to attain the optimum speed for the job.

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

### MT665B Special Application Tractor

Rated at 240 PTO horsepower (180 kW), the Challenger MT665B features exceptional power, excellent efficiency and the most innovative technology in the industry. That also makes it an ideal tractor for scraper and industrial applications... particularly when it's equipped with Challenger's new "Special Application" package, which includes: pneumatic cab suspension, 2 roof mounted beacons and extra weights to assist traction for the 710/70R38 and 600/65R28 tires.

Perhaps the best feature of the MT665B scraper tractor, though, is the standard-equipment TechStar CVT (continuously variable transmission). When coupled with the Challenger Endurance diesel engine and its electronic engine management system, the TechStar CVT provides a virtually unlimited combination of engine speeds and ground speeds from 60 feet per hour to 25 mph (32 mph with the suspended front axle). Pull a scraper at exactly the right speed for slope and soil conditions. Then take advantage of the rapid transport.



### Stepless Speed Control....How It Works

By using both its mechanical and hydrostatic capabilities at the same time, the TechStar CVT not only operates more efficiently, but it does so without preset gear limits.

With stepless variable speed, you have access to the power reserves, as well as the speed choices, normally hidden in the areas between gears.

Say, for example, you choose to pull a 30' chisel at 6.4 mph instead of the 5.7 mph gear limit on a competitive powershift. The difference

in speed adds up to an extra 36 acres in a 14-hour day. And that's just one operation on one day.

Think of the possibilities with applications like crop spraying, where a constant ground speed is critical for accuracy. Or harvesting with PTO-drive equipment, where it's important to keep engine speed at a steady level.

With the Challenger MT600B and the TechStar CVT, the operator can control precise ground speed, engine speed and/or PTO speed as each takes precedence.

# Challenger SPECIALTY WHEEL TRACTORS

The 8.4-liter (512 cu. in.), 6-cylinder Challenger "Endurance" diesel used in the MT665B is Tier III compliant and was designed from inception to provide the highest level of performance and reliability when coupled with the TechStar CVT.

Four valves per cylinder, along with a turbocharger and aftercooler ensure Tier III compliance, while providing continuous power and up to 40 percent torque backup.

- Electronic Engine Management (EEM) ensures quick and precise response to throttle movement. The EEM system also allows the operator to program or recall two specific engine speeds with the touch of a button.

- The single-piece cast-iron block provides maximum strength and serves as a load-bearing frame component, contributing to a shorter turning radius.

- Stepless variable speed provide access to the power reserves, as well as the speed choices, normally hidden in the areas between gears on powershift units.

- Achieve precise ground speed, engine speed and/or PTO speed as each takes precedence.

- A separate oil reservoir isolates the transmission from the hydraulic remotes, minimizing the chance for contamination.

- All tractor movements can be controlled with the operators left hand leaving the right hand free to operate the boom mower or other machinery.

Extra wheel weights

F600/65R28 and R710/70R38 tire package

Front belly weight (1,012 lbs./459 kg) and up to 16 suitcase weights

Pneumatic cab suspension

Rear window washer/wiper

Two roof-mounted rotating beacons



Engine



CVT



Weights



Tires



Weights



Cab Suspension



Wiper



Beacons

# All-Day comfort

Designed by ergonomic specialists, with the help of user focus groups, the MT600B cab offers the best comfort, control and ease of use in the industry.

- An industry-leading 71 dB(A) maximum interior sound level helps the operator concentrate on the job.
- The VRS semi-active operator's seat allows continuous real-time automatic damping force adjustments based on terrain inputs. The comfortable ride, combined with the quieter environment, helps keep the operator fresh and alert through long days for improved safety, performance and productivity.
- A multi-function armrest, attached to the seat, puts all frequently used controls at the operator's fingertips.
- An ergonomically designed right-hand control console groups all controls by function for quick response.
- 61 square feet (5.67 square meters) of glass provides excellent visibility in all directions.
- The slim-profile dash features improved forward ground visibility and provides both analog and LCD displays.

## Computerized Assistance

An in-cab Power Performance display allows the operator to monitor all tractor operations and pre-setup to 21 tractor and implement functions for efficient operator performance.

Using the Trailed Implement Control (TIC) the operator can control scraper depth automatically by presetting the maximum wheel slip and allowing the tractor to adjust the blade height. As a result, engine performance remains at peak levels and scraper cuts are always gradual and even, improving cycle times and ensuring single-pass accuracy.





## World-Class commitment

When you purchase a Challenger® special application tractor, you're buying a lot more than a piece of machinery. You're purchasing the Challenger commitment to quality and service.

Take a close look at a Challenger tractor or mowing system and you'll realize that it's built to the highest standards of quality in terms of components and construction, as well as fit and finish.

But Challenger's commitment to the customer goes far beyond steel and rubber.

### Complete Warranty Coverage

Whether you purchase a tractor or a complete system, you are assured of full grille-to-drawbar warranty protection for two years or 2,000 hours, whichever comes first. That includes the frame and booms on the BRM and BRU mowing systems, making it the best protection in the industry.

### New ProTech Protection

Unlike any other offering in the industry, Challenger's new ProTech Service and Support Program includes a valuable 4-year/4,000-hour Extended Service Contract at no additional cost. In each case, the Extended Service Contract is provided through Cat® insurance and is fully transferable.

We're up to  
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# SPECIFICATIONS MT300B

MODEL	MT315B	MT325B	MT335B	MT345B
<b>ENGINE</b>				
PTO HP	45	55	65	75
Gross HP	58	68	78	91
Engine	Challenger	Challenger	Challenger	Challenger
No. of Cylinders	3	3	3	3
Displacement (in <sup>3</sup> /litres)	201/3.3	201/3.3	201/3.3	201/3.3
Aspiration	Turbo	Turbo	Turbo	Turbo/Aftercooled
Rated RPM	2,150	2,150	2,150	2,150
Fuel Tank Capacity (US Gal)	29 (109.7)	29 (109.7)	29 (109.7)	29 (109.7)
Bore (in / mm)	4.13 / 105	4.13 / 105	4.13 / 105	4.13 / 105
Stroke (in / mm)	5.0 / 127	5.0 / 127	5.0 / 127	5.0 / 127
<b>TRANSMISSION</b>				
Base (Synchro Shuttle)	12x12 (0.3-18.6 mph)	12x12 (0.3-18.6 mph)	12x12 (0.3-18.6 mph)	12x12 (0.3-18.6 mph)
Optional (Power Shuttle)	12x12 (0.3-18.6 mph)	12x12 (0.3-18.6 mph)	12x12 (0.3-18.6 mph)	12x12 (0.3-18.6 mph)
<b>POWER TAKE-OFF (PTO)</b>				
Engagement	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic
Standard	540 Ind.	540 Ind.	540 Ind.	540 Ind.
Optional	540/540E Ind.	540/540E Ind.	540/540E Ind.	540/540E Ind.
<b>DIFFERENTIAL LOCK</b>				
Type	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic
<b>FRONT AXLE ENGAGEMENT</b>				
Type	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic	Electro Hydraulic
<b>HYDRAULICS</b>				
Max Flow to Remotes GPM (l/min.)	15.8 (60)	15.8 (60)	15.8 (60)	15.8 (60)
Total Flow	22.4 (84.8)	22.4 (84.8)	22.4 (84.8)	22.4 (84.8)
Maximum Hydraulic Pressure psi (bar)	2755 (190)	2755 (190)	2755 (190)	2755 (190)
3 Point Hitch	Cat III	Cat III	Cat III	Cat III
3 Point Hitch Controls	Position & Draft	Position & Draft	Position & Draft	Position & Draft
Lift Capacity @ Link Ends lbs (kg)	5500 (2500)	5500 (2500)	5500 (2500)	5500 (2500)
Auxiliary Valves	----- 2 Valves SA/DA Standard / 3rd Valve Optional / Mid-Mount Joystick with 2 Valves Optional -----			
<b>STEERING</b>				
Type	Hydrostatic Power	Hydrostatic Power	Hydrostatic Power	Hydrostatic Power
<b>BRAKES</b>				
Type	Hydraulic Oil Cooled Disc	Hydraulic Oil Cooled Disc	Hydraulic Oil Cooled Disc	Hydraulic Oil Cooled Disc
<b>ELECTRICAL SYSTEM</b>				
Alternator (AMP)	80	80	80	80
Battery/CCA	12V/675	12V/675	12V/675	12V/675
<b>OPERATOR STATION</b>				
Brake/Clutch Pedals	Pendant	Pendant	Pendant	Pendant
Gearshift Lever - Main & Range	R.H. Side	R.H. Side	R.H. Side	R.H. Side
Gearshift Lever - Shuttle	L.H. Side/Column	L.H. Side/Column	L.H. Side/Column	L.H. Side/Column
<b>OPERATOR STATION NON CAB</b>				
Floor Type	Platform	Platform	Platform	Platform
2 Post Folding ROPS	Standard	Standard	Standard	Standard
<b>CAB VERSION</b>				
Floor Type	Platform	Platform	Platform	Platform
Tilt & Telescopic Steering Wheel	Standard	Standard	Standard	Standard
Sound Level DBA	78	78	78	78
<b>DIMENSIONS IN (16.9-30 REAR TIRE)</b>				
Wheelbase 2wd & 4wd	82.7	82.7	82.7	82.7
Maximum Length (2wd/4wd)	126/132.3	126/132.3	126/132.3	148
Overall Height (ROPS/Cab)	101/101.4	101/101.4	101/101.4	105/102.5
Minimum Width	72.8	72.8	72.8	76
Weight Platform 2wd/4wd (lbs)	5291/5732	5291/5732	5291/5732	5291/5732
Weight Cab with AC 2wd/4wd (lbs)	6614/7716	6614/7716	6614/7716	6614/7716



# SPECIFICATIONS MT400B

# Challenger SPECIALTY WHEEL TRACTORS

MODEL	MT445B	MT455B	MT465B
<b>ENGINE</b> Gross Eng HP (Kw) @ 2000 rpm PTO HP @ 2000 rpm (Rated PTO Speed) Rated PTO HP (Kw) @ 2200 rpm Type Displacement CID (L) Number of Cylinders Bore in. (mm) Stroke in. (mm) Alternator Std (optional)	Caterpillar 3054C / Perkins 1104C-44T 91.7 (68.38) 72 (53.96) Nebraska Test 70 (52.19) Wastegate Turbocharge 268.0 (4.4) 4 4.13 (105) 5.00 (127) 80 AMP (120 AMP)	Caterpillar 3054C / Perkins 1104C-44T 103.2 (76.95) 82 (61.14) Nebraska Test 80 (59.65) Wastegate Turbocharge 268.0 (4.4) 4 4.13 (105) 5.00 (127) 80 AMP (120 AMP)	Caterpillar 3054C / Perkins 1104C-44T 123.12 (91.81) 95 (70.84) Nebraska Test 90 (67.11) Wastegate Turbocharge Air-to-Air Intercooled 268.0 (4.4) 4 4.13 (105) 5.00 (127) 80 AMP (120 AMP)
<b>TRANSMISSION &amp; CLUTCH</b> Type Option w / 8-Creeper Gears Option w / 16-Creeper Gears Clutch AutoPowerTM IV Powershift Clutch Lubrication & Brakes Clutch Lubrication & Brakes & Charge Pump ***Optional Mechanical Clutch Mechanical Shuttle	AutoPowerTM IV Semi-Powershift 16 x 16 Power Shuttle w/4-Speed Powershift 24 x 24 Power Shuttle w/4-Speed Powershift 32 x 32 Power Shuttle w/4-Speed Powershift 2-Multi-Wet Clutch Packs 8.075 GPM (30.57 LPM) Open-Center Hyd 43.6 GPM (165 LPM) Closed PFC 16 x 16 Mechanical Shuttle w/2-Speed Powershift 1-cerimetallic 13" Dry Paddle	AutoPowerTM IV Semi-Powershift 16 x 16 Power Shuttle w/4-Speed Powershift 24 x 24 Power Shuttle w/4-Speed Powershift 32 x 32 Power Shuttle w/4-Speed Powershift 2-Multi-Wet Clutch Packs 8.075 GPM (30.57 LPM) Open-Center Hyd 43.6 GPM (165 LPM) Closed PFC 16 x 16 Mechanical Shuttle w/2-Speed Powershift 1-cerimetallic 13" Dry Paddle	AutoPowerTM IV Semi-Powershift 16 x 16 Power Shuttle w/4-Speed Powershift 24 x 24 Power Shuttle w/4-Speed Powershift 32 x 32 Power Shuttle w/4-Speed Powershift 2-Multi-Wet Clutch Packs 8.075 GPM (30.57 LPM) Open-Center Hyd 43.6 GPM (165 LPM) Closed PFC 16 x 16 Mechanical Shuttle w/2-Speed Powershift 1-cerimetallic 13" Dry Paddle
<b>REAR AXLE</b> Planetary Permissible Static Load Limit Brakes Differential Lock	Heavy-Duty Flange Heavy-Duty Inboard 34,943 Lbs (15,850 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Heavy-Duty Flange Heavy-Duty Inboard 34,943 Lbs (15,850 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Heavy-Duty Flange Heavy-Duty Inboard 34,943 Lbs (15,850 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement
<b>FRONT AXLE</b> Type 2WD Type 4WD Maximum Turning Angle Steering Permissible Static Load Limit 2WD Permissible Static Load Limit 4WD	2WD / 4WD Box in Box Design Center Pivot 55 degrees Hydrostatic Power, Tilt and Telescopic 9,590 Lbs (4,350 Kg) 16,534 Lbs (7,500 Kg)	2WD / 4WD Box in Box Design Center Pivot 55 degrees Hydrostatic Power, Tilt and Telescopic 9,590 Lbs (4,350 Kg) 16,534 Lbs (7,500 Kg)	2WD / 4WD Box in Box Design Center Pivot 55 degrees Hydrostatic Power, Tilt and Telescopic 9,590 Lbs (4,350 Kg) 22,046 Lbs (10,000 Kg)
<b>POWER TAKE - OFF (PTO)</b> Speeds Speeds Optional Control Clutch	Independent 540 / 1000 540 / 540E / 1000 / 1000E Electro-Hydraulic Multi-Wet Clutch Pack	Independent 540 / 1000 540 / 540E / 1000 / 1000E Electro-Hydraulic Multi-Wet Clutch Pack	Independent 540 / 1000 540 / 540E / 1000 / 1000E Electro-Hydraulic Multi-Wet Clutch Pack
<b>HYDRAULIC SYSTEM</b> Max Flow to Remotes GPM No. of Remotes Std No. of Remotes Optional Max Pressure PSI (Bar) Max Flow Power Steering GPM	Open Center or (Closed, Load Sensing PFC Cab only) 26.4 Open Center / 29 Closed PFC 2 up to 4 2,900 (200) 11.09 Open Center / 43.6 Closed PFC	Open Center or (Closed, Load Sensing PFC Cab only) 26.4 Open Center / 29 Closed PFC 2 up to 4 2,900 (200) 11.09 Open Center / 43.6 Closed PFC	Open Center or (Closed, Load Sensing PFC Cab only) 26.4 Open Center / 29 Closed PFC 2 up to 4 2,900 (200) 11.09 Open Center / 43.6 Closed PFC
<b>3-POINT HITCH</b> Control Electronic Draft Control Rate of Drop Speed Control Telescopic Stabilizers Telescopic Draft Link Ends Lift Capacity @ 24 in Behind Ball Ends	Electronic (ELC) Mouse Wheel, Rocker Switch, Draft Knobs, Fenders Top Link Sensing Electronic Control Electronic Control Standard Standard 7,285 Lbs (3,304 Kg) Nebraska Test	Electronic (ELC) Mouse Wheel, Rocker Switch, Draft Knobs, Fenders Top Link Sensing Electronic Control Electronic Control Standard Standard 7,285 Lbs (3,304 Kg) Nebraska Test	Electronic (ELC) Mouse Wheel, Rocker Switch, Draft Knobs, Fenders Top Link Sensing Electronic Control Electronic Control Standard Standard 7,285 Lbs (3,304 Kg) Nebraska Test
<b>Capacities</b> Fuel Tank Gal (L) Cooling System Gal (L) Transmission Hydraulic System Gal (L) Engine Crankcase Qt (L)	40 (150) Optional 53 (241) 4.4 (16.6) 19.5 (73.8) 8.0 (7.5)	40 (150) Optional 53 (241) 4.4 (16.6) 19.5 (73.8) 8.0 (7.5)	40 (150) Optional 53 (241) 4.4 (16.6) 19.5 (73.8) 8.0 (7.5)
<b>DIMENSIONS</b> Wheelbase in (mm) Unballasted Weight Lbs (Kg) 2WD Cab Unballasted Weight Lbs (Kg) 4WD Cab Tire Sizes Used For Specifications	97.0 (2,464) 8,631 (3,915) 8,929 (4,050) 480/70R38 R /340/85R28 F /10.00-16 F	97.0 (2,464) 8,631 (3,915) 8,929 (4,050) 480/70R38 R /340/85R28 F /10.00-16 F	100.4 (2550) 9,171 (4,160) 9,976 (4,525) 480/70R38 R /340/85R28 F /10.00-16 F



# SPECIFICATIONS MT500B

MODEL	MT525B Auto Power™ VI	MT525B TechStar CVT	MT535B Auto Power™ VI	MT535B TechStar CVT	MT545B Auto Power™ VI	MT545B TechStar CVT
<b>ENGINE</b> Gross Eng HP (Kw) @ 2000 rpm PTO HP @ 2000 rpm (Rated PTO Speed) Rated PTO HP (Kw) @ 2200 rpm Type Displacement CID (L) Number of Cylinders Bore in. (mm) Stroke in. (mm) Alternator Std (optional)	Caterpillar 3056C / Perkins 1106C-E 60TA 138.6 (103.54) 105 (78.29) Nebraska Test 95 (70.84) Turbocharge Air-to-Air Intercooled 365.0 (6.0) 6 3.94 (100) 5.00 (127) 120 AMP	Caterpillar 3056C / Perkins 1106C-E 60TA 134.4 (100.22) @ 2034 102 (76.06) Nebraska Test @ 2034 95 (70.84) Turbocharge Air-to-Air Intercooled 365.0 (6.0) 6 3.94 (100) 5.00 (127) 120 AMP	Caterpillar 3056C / Perkins 1106C-E 60TA 145.2 (108.27) @ 2000 110 (82.02) Nebraska Test 105 (78.29) Turbocharge Air-to-Air Intercooled 365.0 (6.0) 6 3.94 (100) 5.00 (127) 120 AMP	Caterpillar 3056C / Perkins 1106C-E 60TA 148.2 (110.51) @ 2000 110 (82.02) Nebraska Test @ 2034 105 (78.29) Turbocharge Air-to-Air Intercooled 365.0 (6.0) 6 3.94 (100) 5.00 (127) 120 AMP	Caterpillar 3056C / Perkins 1106C-E 60TA 155 (115.58) 120 (89.48) Nebraska Test 115 (85.75) Turbocharge Air-to-Air Intercooled 365.0 (6.0) 6 3.94 (100) 5.00 (127) 120 AMP	Caterpillar 3056C / Perkins 1106C-E 60TA 157 (117.07) @ 2034 120 (89.48) Nebraska Test @ 2034 115 (85.75) Turbocharge Air-to-Air Intercooled 365.0 (6.0) 6 3.94 (100) 5.00 (127) 120 AMP
<b>TRANSMISSION</b> Type Option w / 8-Creeper Gears	AutoPower™ VI Semi-Powershift 24 x 24 Power Shuttle w/6-Speed Powershift 32 x 32 Power Shuttle w/6-Speed Powershift	TechStar CVT w / Creeper Std 60 FPH-25 MPH (40 KPH) Continuously Variable 60 FPH-32 MPH (50 KPH) Continuously Variable	AutoPower™ VI Semi-Powershift 24 x 24 Power Shuttle w/6-Speed Powershift 32 x 32 Power Shuttle w/6-Speed Powershift	TechStar CVT w / Creeper Std 60 FPH-25 MPH (40 KPH) Continuously Variable 60 FPH-32 MPH (50 KPH) Continuously Variable	AutoPower™ VI Semi-Powershift 24 x 24 Power Shuttle w/6-Speed Powershift 32 x 32 Power Shuttle w/6-Speed Powershift	TechStar CVT w / Creeper Std 60 FPH-25 MPH (40 KPH) Continuously Variable 60 FPH-32 MPH (50 KPH) Continuously Variable
<b>REAR AXLE</b> Planetary Permissible Static Load Limit Brakes Differential Lock	Heavy-Duty Flange Heavy-Duty Inboard 34,943 Lbs (15,850 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 34,943 Lbs (15,850 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement
<b>FRONT AXLE</b> Type 2WD Type 4WD Maximum Turning Angle 4WD Suspension Option Steering Permissible Static Load Limit 2WD Permissible Static Load Limit 4WD	2WD / 4WD Box in Box Design Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 36,493 Lbs (16,553 Kg)	4WD only N/A Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18750 Kg)	2WD / 4WD Box in Box Design Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 36,493 Lbs (16,553 Kg)	4WD only N/A Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18750 Kg)	2WD / 4WD Box in Box Design Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18,750 Kg)	4WD only N/A Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18,750 Kg)
<b>POWER TAKE - OFF (PTO)</b> Speeds Speeds Optional Control	Independent 540 / 1000 540 / 540E / 1000 / 1000E Electro-Hydraulic	Independent 540 / 540E / 1000 No Option Electro-Hydraulic	Independent 540 / 1000 540 / 540E / 1000 / 1000E Electro-Hydraulic	Independent 540 / 540E / 1000 No Option Electro-Hydraulic	Independent 540 / 540E / 1000 / 1000E Electro-Hydraulic	Independent 540 / 540E / 1000 No Option Electro-Hydraulic
<b>HYDRAULIC SYSTEM</b> Max Flow to Remotes GPM (LPM) No. of Remotes Std No. of Remotes Optional Max Pressure PSI (Bar) Total Flow, Steering, cooling, charge etc.	Closed, Pressure / Load Sensing (PFC) 29 (110) 2 up to 5 2,900 (200) 78.83 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 2 up to 4 2,900 (200) 52.8 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 2 up to 5 2,900 (200) 78.83 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 2 up to 4 2,900 (200) 52.8 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 2 up to 5 2,900 (200) 78.83 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 2 up to 4 2,900 (200) 52.8 GPM (190 LPM) Closed (PFC)
<b>3-POINT HITCH</b> Control Electronic Draft Control Rate of Drop Speed Control Telescopic Stabilizers Telescopic Draft Link Ends Lift Capacity @ 24 in Behind Ball Ends	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 7,152 Lbs (3,244 Kg) Nebraska Test	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 10915 Lbs (4,950 Kg) Nebraska Test	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 7,152 Lbs (3,244 Kg) Nebraska Test	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 10915 Lbs (4,950 Kg) Nebraska Test	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 7,152 Lbs (3,244 Kg) Nebraska Test	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 10915 Lbs (4,950 Kg) Nebraska Test
<b>CAB</b> Sound Level Municipality Cab (5 Post Cab)	71dBa Optional	71dBa Optional	71dBa Optional	71dBa Optional	71dBa Optional	71dBa Optional
<b>CAPACITIES</b> Fuel Tank Gal (L) Cooling System Gal (L) Transmission Hydraulic System Gal (L) Engine Crankcase Qt (L) Tech Star CVT Transmission Gal (L)	71.3 (270) 7.5 (28.4) 18.7 (71) 15.3 (14.5) Not Available	71.3 (270) 7.5 (28.4) 26.4 (100) 15.3 (14.5) 14.8 (56)	71.3 (270) 7.5 (28.4) 18.7 (71) 15.3 (14.5) Not Available	71.3 (270) 7.5 (28.4) 26.4 (100) 15.3 (14.5) 14.8 (56)	71.3 (270) 7.5 (28.4) 18.7 (71) 15.3 (14.5) Not Available	71.3 (270) 7.5 (28.4) 26.4 (100) 15.3 (14.5) 14.8 (56)
<b>DIMENSIONS</b> Wheelbase in (mm) Overall Height Unballasted Weight Lbs (Kg) 2WD Cab Unballasted Weight Lbs (Kg) 4WD Cab Tire Sizes Used For Specifications	109.4 (2,780) 115 (2930) 10,956 (4,970) 12,181 (5,525) 460/85R38 R /380/85R28 F /14.00-16 F	109.4 (2,780) 115 (2930) Not Available 13,084 (5,935) 460/85R38 R /380/85R28 F	109.4 (2,780) 115 (2930) 10,956 (4,970) 12,181 (5,525) 460/85R38 R /380/85R28 F /14.00-16 F	109.4 (2,780) 115 (2930) Not Available 13,084 (5,935) 460/85R38 R /380/85R28 F	109.4 (2,780) 115 (2930) 10,956 (4,970) 12,181 (5,525) 460/85R38 R /380/85R28 F /14.00-16 F	109.4 (2,780) 115 (2930) Not Available 13,084 (5,935) 460/85R38 R /380/85R28 F



# Challenger SPECIALTY WHEEL TRACTORS

MODEL	MT555B Auto Power™ VI	MT555B TechStar CVT	MT565B Auto Power™ VI	MT565B TechStar CVT	MT575B Auto Power™ VI	MT575B TechStar CVT	
<b>ENGINE</b>	Caterpillar C6.6 / Perkins 1106D-E 66TA 180 (134) @ 2000 Gross Eng HP (Kw) @ 2000 rpm PTO HP @ 2000 rpm (Rated PTO Speed) Rated PTO HP (Kw) @ 2200 rpm Type Displacement CID (L) Number of Cylinders Bore in. (mm) Stroke in. (mm) Alternator Std (optional)	Caterpillar C6.6 / Perkins 1106D-E 66TA 180 (134) @ 2000 144 (107) 130 (96.94) Turbocharge Air-to-Air Intercooled 402 (6.6) 6 4.13 (105) 5.00 (127) 120 AMP	Caterpillar C6.6 / Perkins 1106D-E 66TA 180 (134) @ 2000 144 (107) 130 (96.94) Turbocharge Air-to-Air Intercooled 402 (6.6) 6 4.13 (105) 5.00 (127) 120 AMP	Caterpillar C6.6 / Perkins 1106D-E 66TA 190 (141) @ 2000 175 (130) 145 (108) Turbocharge Air-to-Air Intercooled 402 (6.6) 6 4.13 (105) 5.00 (127) 120 AMP	Caterpillar C6.6 / Perkins 1106D-E 66TA 190 (141) @ 2000 175 (130) 145 (108) Turbocharge Air-to-Air Intercooled 402 (6.6) 6 4.13 (105) 5.00 (127) 120 AMP	Caterpillar C6.6 / Perkins 1106D-E 66TA 203 (151) @ 2000 190 (141) 160 (119) Turbocharge Air-to-Air Intercooled 402 (6.6) 6 4.13 (105) 5.00 (127) 120 AMP	Caterpillar C6.6 / Perkins 1106D-E 66TA 203 (151) @ 2000 190 (141) 160 (119) Turbocharge Air-to-Air Intercooled 402 (6.6) 6 4.13 (105) 5.00 (127) 120 AMP
<b>TRANSMISSION</b>	AutoPower™ VI Semi-Powershift Type Option w / 8-Creeper Gears	TechStar CVT w / Creeper Std 60 FPH-25 MPH (40 KPH) Continuously Variable 60 FPH-32 MPH (50 KPH) Continuously Variable	AutoPower™ VI Semi-Powershift 24 x 24 Power Shuttle w/6-Speed Powershift 32 x 32 Power Shuttle w/6-Speed Powershift	TechStar CVT w / Creeper Std 60 FPH-25 MPH (40 KPH) Continuously Variable 60 FPH-32 MPH (50 KPH) Continuously Variable	AutoPower™ VI Semi-Powershift 24 x 24 Power Shuttle w/6-Speed Powershift 32 x 32 Power Shuttle w/6-Speed Powershift	TechStar CVT w / Creeper Std 60 FPH-25 MPH (40 KPH) Continuously Variable 60 FPH-32 MPH (50 KPH) Continuously Variable	
<b>REAR AXLE</b>	Bar Axle Planetary Permissible Static Load Limit Brakes Differential Lock	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	Bar Axle Heavy-Duty Inboard 52,414 Lbs (23,775 Kg) Hydraulic Multi-Wet Disk, Oil Cooled Electro-Hydraulic Engagement	
<b>FRONT AXLE</b>	2WD / 4WD Type 2WD Type 4WD Maximum Turning Angle 4WD Suspension Option Steering Permissible Static Load Limit 2WD Permissible Static Load Limit 4WD	4WD only N/A Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18,750 Kg)	4WD only Box in Box Design Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18,750 Kg)	4WD only Box in Box Design Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18,750 Kg)	4WD only Box in Box Design Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18,750 Kg)	4WD only N/A Center Pivot 55 degrees Hydraulic Hydrostatic Power, Tilt and Telescopic N/A 41,336 Lbs (18,750 Kg)	
<b>POWER TAKE - OFF (PTO)</b>	Independent Speeds Speeds Optional Control	Independent 540 / 1000 540 / 540E / 1000 / 1000E No Option Electro-Hydraulic	Independent 540 / 1000 540 / 540E / 1000 / 1000E No Option Electro-Hydraulic	Independent 540 / 1000 540 / 540E / 1000 / 1000E No Option Electro-Hydraulic	Independent 540 / 1000 540 / 540E / 1000 / 1000E No Option Electro-Hydraulic	Independent 540 / 1000 540 / 540E / 1000 / 1000E No Option Electro-Hydraulic	
<b>HYDRAULIC SYSTEM</b>	Closed, Pressure / Load Sensing (PFC) Max Flow to Remotes GPM (LPM) No. of Remotes Std No. of Remotes Optional Max Pressure PSI (Bar) Total Flow, Steering, cooling, charge ect.	Closed, Pressure / Load Sensing (PFC) 29 (110) 4 up to 4 2,900 (200) 52.8 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 4 up to 5 2,900 (200) 78.83 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 4 up to 4 2,900 (200) 52.8 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 4 up to 5 2,900 (200) 78.83 GPM (190 LPM) Closed (PFC)	Closed, Pressure / Load Sensing (PFC) 29 (110) 4 up to 4 2,900 (200) 52.8 GPM (190 LPM) Closed (PFC)	
<b>3-POINT HITCH</b>	Electronic (ELC) Control Electronic Draft Control Rate of Drop Speed Control Telescopic Stabilizers Electronic Draft Link Ends Lift Capacity @ 24 in Behind Ball Ends	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 13700 Lbs (6214 kg)	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 14700 Lbs (6668 kg)	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 13700 Lbs (6214 kg)	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 14700 Lbs (6668 kg)	Electronic (ELC) Armrest Rocker Switch, Draft Knobs, Fenders Lower Link Sensing Electronic Control Electronic Control Standard Standard 13700 Lbs (6214 kg)	
<b>CAB</b>	Sound Level Municipality Cab (5 Post Cab)	71dBa Optional	71dBa Optional	71dBa Optional	71dBa Optional	71dBa Optional	
<b>CAPACITIES</b>	Fuel Tank Gal (L) Cooling System Gal (L) Transmission Hydraulic System Gal (L) Engine Crankcase Qt (L) Tech Star CVT Transmission Gal (L)	100 (380) 6.73 (25.5) 37.5 (142) 22 (20.8) Not Available	100 (380) 6.73 (25.5) 26.4 (100) 22 (20.8) 14.8 (56)	100 (380) 6.73 (25.5) 37.5 (142) 22 (20.8) Not Available	100 (380) 6.73 (25.5) 26.4 (100) 22 (20.8) 14.8 (56)	100 (380) 6.73 (25.5) 37.5 (142) 22 (20.8) Not Available	100 (380) 6.73 (25.5) 26.4 (100) 22 (20.8) 14.8 (56)
<b>DIMENSIONS</b>	Wheelbase in (mm) Overall Height Unballasted Weight Lbs (Kg) 2WD Cab Unballasted Weight Lbs (Kg) 4WD Cab Tire Sizes Used For Specifications	112.1 (2,848) 119 (3024) 14,028 (6,363) 14,528 (6,590) 460/85R38 R /380/85R28 F /14.00-16 F	112.1 (2,848) 119 (3024) Not Available 15,060 (6,830) 460/85R38 R /380/85R28 F	112.1 (2,848) 119 (3024) 14,028 (6,363) 15,060 (6,590) 460/85R38 R /380/85R28 F /14.00-16 F	112.1 (2,848) 119 (3024) Not Available 15,060 (6,830) 460/85R38 R /380/85R28 F	112.1 (2,848) 119 (3024) 14,028 (6,363) 14,528 (6,590) 460/85R38 R /380/85R28 F /14.00-16 F	112.1 (2,848) 119 (3024) Not Available 15,060 (6,830) 460/85R38 R /380/85R28 F

# SPECIFICATIONS MT600B

MODEL	MT635B	MT645B	MT655B	MT665B
<b>ENGINE</b>				
Model	Endurance 74ETA	Endurance 74ETA	Endurance 84ETA	Endurance 84ETA
PTO HP	180 (134 kW)	200 (149 kW)	220 (164 kW)	240 (180 kW)
Type	In-line, liquid-cooled diesel	In-line, liquid-cooled diesel	In-line, liquid-cooled diesel	In-line, liquid-cooled diesel
# Cylinders/Valves	6/24	6/24	6/24	6/24
Displacement (CID/L)	451/7.4	451/7.4	512/8.4	512/8.4
Rated Speed	2,200	2,200	2,200	2,200
Aspiration	Turbocharged and aftercooled	Turbocharged and aftercooled	Turbocharged and aftercooled	Turbocharged and aftercooled
Bore (in/mm)	4.3/108	4.3/108	4.4/111	4.4/111
Stroke (in/mm)	5.3/136	5.3/136	5.7/145	5.7/145
<b>FUEL SYSTEM</b>	Bosch radial-piston pump - electronically controlled	Bosch radial-piston pump - electronically controlled	Bosch radial-piston pump - electronically controlled	Bosch radial-piston pump - electronically controlled
<b>TRANSMISSION</b>				
Type	TechStar CVT	TechStar CVT	TechStar CVT	TechStar CVT
Speed Range (mph/kph)	0.01 to 25 mph (0.03 to 40 kph)	0.01 to 25 mph (0.03 to 40 kph)	0.01 to 25 mph (0.03 to 40 kph)	0.01 to 25 mph (0.03 to 40 kph)
Option	01 - 32 MPH (50 KPH) Continuously Variable	01 - 32 MPH (50 KPH) Continuously Variable	01 - 32 MPH (50 KPH) Continuously Variable	01 - 32 MPH (50 KPH) Continuously Variable
<b>AXLES</b>				
Front (standard)	AG210 High pivot MFD	AG210 High pivot MFD	AG280 High pivot MFD	AG280 High pivot MFD
Rear Bar Axle (in/mm)	118/3,000 – 4.33/110 dia.	118/3,000 – 4.33/110 dia.	118/3,000 – 4.33/110 dia.	118/3,000 – 4.33/110 dia.
Tread Width-18.4 tires (in/mm)	60 to 88/1,524 to 2,235	60 to 88/1,524 to 2,235	60 to 88/1,524 to 2,235	60 to 88/1,524 to 2,235
<b>DIFFERENTIAL LOCK</b>	Electrohydraulic front & rear	Electrohydraulic front & rear	Electrohydraulic front & rear	Electrohydraulic front & rear
<b>BRAKES</b>				
Rear	Hydraulic wet multi-disc	Hydraulic wet multi-disc	Hydraulic wet multi-disc	Hydraulic wet multi-disc
Front	Wet brakes on cardan shaft	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	Electronically controlled
Speed (Optional)	540/1,000 rpm or 540 Economy/1,000 rpm	540/1,000 rpm or 540 Economy/1,000 rpm	540/1,000 rpm or 540 Economy/1,000 rpm	540/1,000 rpm or 540 Economy/1,000 rpm
<b>ELECTRICAL SYSTEM</b>				
Alternator	150 amp.	150 amp.	150 amp.	150 amp.
Batteries	(2) 775 cca 12-V	(2) 775 cca 12-V	(2) 775 cca 12-V	(2) 775 cca 12-V
Block Heater (Optional)	1,000 watt coolant heater	1,000 watt coolant heater	1,000 watt coolant heater	1,000 watt coolant heater
<b>HYDRAULIC SYSTEM</b>				
Type	Pressure/flow compensated	Pressure/flow compensated	Pressure/flow compensated	Pressure/flow compensated
# Remotes (std/opt.)	4/up to 6	4/up to 6	4/up to 6	4/up to 6
Max. Pressure (PSI/BAR)	2,900/200	2,900/200	2,900/200	2,900/200
Max. Flow (gpm/lpm), at remotes	39/147	39/147	39/147	39/147
<b>3-POINT HITCH</b>				
Control	Electronic	Electronic	Electronic	Electronic
Draft Sensing	Lower link	Lower link	Lower link	Lower link
Rear Hitch	Cat. 3, adjustable linkage	Cat. 3, adjustable linkage	Cat. 3, adjustable linkage	Cat. 3, adjustable linkage
Lift Capacity @ 24" (lbs/kg)	15,600/7,078	15,600/7,078	15,600/7,078	15,600/7,078
Front Hitch (Optional)	Cat. 2	Cat. 2	Cat. 2	Cat. 2
Lift Capacity (lbs/kg)	7,700/3,500 or 12,100/5,500	7,700/3,500 or 12,100/5,500	7,700/3,500 or 12,100/5,500	7,700/3,500 or 12,100/5,500
<b>STEERING</b>	Full power hydrostatic	Full power hydrostatic	Full power hydrostatic	Full power hydrostatic
<b>CAPACITIES</b>				
Fuel Tank (gal/L)	159/600	159/600	159/600	159/600
Cooling System (gal/L)	8.9/34	8.9/34	8.9/34	8.9/34
Engine Crankcase (qt/L)	20/19	20/19	20/19	20/19
Hydraulic System (gal/L)	26.4/100	26.4/100	26.4/100	26.4/100
TechStar CVT (gal/L)	17.7/67	17.7/67	17.7/67	17.7/67
<b>DIMENSIONS</b>				
Wheelbase (in/mm)	121/3,075	121/3,075	121/3,075	121/3,075
Minimum Width (in/mm)	118/3,000	118/3,000	118/3,000	118/3,000
Height Top of Cab (in/mm)	123.6/3,140	123.6/3,140	123.6/3,140	123.6/3,140
Overall Length (in/mm)	206/5,240	206/5,240	206/5,240	206/5,240
Axle Clearance (in/mm)	22.44/570	22.44/570	22.44/570	22.44/570
Shipping Weight (lbs/kg)	18,308/8,304	18,308/8,304	19,550/8,868	19,550/8,868

Shipping weight is with pressed steel, single rear wheels.

# SPECIFICATIONS LITTLE MOWER

# Challenger SPECIALTY WHEEL TRACTORS

MODEL		000219-CHBM	000221-CHBM	000223-CHBM	000221-UTBM	000048-CHFL	000060-CHFL
<b>ENGINE</b>	<b>DESCRIPTION</b>						
000203-CHPFB	PowerPlate Frame, MT525B	X	X	X		X	X
000203-CHPFBR	PowerPlate Frame, MT525B,RMS	X	X	X		X	X
000203-CHPFBCVT	PowerPlate Frame, MT525BCVT	X	X	X		X	X
000204-CHPFB	PowerPlate Frame, MT535B	X	X	X		X	X
000204-CHPFBR	PowerPlate Frame, MT535BR	X	X	X		X	X
000206-UTPF	PowerPlate Frame pkg, 455B 2WD UTILITY BOOM				X		
000207-UTPF	PowerPlate Frame pkg, 465B UTILITY BOOM				X		

<b>SPECS</b>							
Boom Reach Out	Dependant on head selection	20' - 22'	22' - 24'	23' - 25'	20' - 22'		
Boom Reach Up	Dependant on head selection	17'	18'	19'	17'		
Boom Reach Down	Dependant on head selection	10'	10'	10'	10'		
swing angle		140°	140°	140°	130°		
Swing Cylinder		Rotary Actuated	Rotary Actuated	Rotary Actuated	Welded Cyl		
Operator Controls	Single, proportional controller for all functions	3-axis Joystick	3-axis Joystick	3-axis Joystick	3-axis Joystick		
BreakAway Protection		Hydraulic/Adj	Hydraulic/Adj	Hydraulic/Adj	Hydraulic/Adj		
Pivot Height	From ground to Base Pin of Boom	40"	40"	40"	41"		
Hydraulic seal type		ORFS	ORFS	ORFS	JIC		
Hydraulics Warranty	Parker® Leak Free Guaranty© Hose and Fitting set	X	X	X			
Pin Bushings	All joints are greasable	Hardened steel	Hardened steel	Hardened steel	Hardened steel		
Pins	Machined, Heat Treated, AISI 8620	X	X	X	X		
Boom Hose Interface	Coupling system between Frame and Boom	Dual Plane Swivel	Dual Plane Swivel	Dual Plane Swivel	Dual Plane Swivel		
Hardware		Grade 8, plated	Grade 8, plated	Grade 8, plated	Grade 8, plated	Grade 8, plated	Grade 8, plated
Skin Steel	Wear Surface Steel Grade	1/4" A514	1/4" A514	1/4" A514	3/16" A514	3/16" A514	3/16" A514
Warranty	Years/Hours, Material and Workmanship	2/2000	2/2000	2/2000	1/1000	2/2000	2/2000
Hyd flow/pressure	GPM / PSI	45/1850	45/1850	40/2300	40/2300	45/1850	45/1850
Hyd Pump/Drive	Cast Steel, High Volume, Gear Pump	3"/PTO Coupled	3"/PTO Coupled	2.37"/ PTO direct	2.37"/ PTO direct	3"/PTO Coupled	3"/PTO Coupled
Hyd Motor/Drive	Cast Steel, High Pressure, Gear Motors	2"/Direct	2"/Direct	1.5"/Sync Belt	1.5"/Sync Belt	2"/Sync Belt	2"/Sync Belt
Blade Option		Disc, Bar, FreeFlow	Disc, Bar, FreeFlow	NW1, NW2, NW8-5	NW1, NW2, NW8-5	Yes	Yes
Grass Shaft Option	Flail Heads Only			Yes	Yes	Yes	Yes
Blade Tip Speed	ft/min	18800	23500	12500	12500	9650	9650
Spindle/ Stubs	One piece construction, material spec	AISI 4142	AISI 4142	AISI 4340	AISI 4340	AISI 4340	AISI 4340
Blade Carrier Material	ASTM A514	ASTM A514	ASTM A514	ASTM A514	ASTM A514	ASTM A514	ASTM A514
Cut Width		48"	60"	48"	62"	48"	62"

MODEL		000148-CHRO	000061-CHRO	000448-UTFL	000460-UTFL	000448-UTRO	000461-UTRO
<b>ENGINE</b>	<b>DESCRIPTION</b>						
000203-CHPFB	PowerPlate Frame, MT525B	X	X				
000203-CHPFBR	PowerPlate Frame, MT525B,RMS	X	X				
000203-CHPFBCVT	PowerPlate Frame, MT525BCVT	X	X				
000204-CHPFB	PowerPlate Frame, MT535B	X	X				
000204-CHPFBR	PowerPlate Frame, MT535BR	X	X				
000206-UTPF	PowerPlate Frame pkg, 455B 2WD UTILITY BOOM			X	X	X	X
000207-UTPF	PowerPlate Frame pkg, 465B UTILITY BOOM			X	X	X	X

<b>SPECS</b>							
Hardware		Grade 8, plated	Grade 8, plated	Grade 8, plated	Grade 8, plated	Grade 8, plated	Grade 8, plated
Skin Steel	Wear Surface Steel Grade	3/16" A514	3/16" A514	3/16" A514	3/16" A514	3/16" A514	3/16" A514
Warranty	Years/Hours, Material and Workmanship	2/2000	2/2000	1/1000	1/1000	1/1000	1/1000
Hyd flow/pressure	GPM / PSI	45/1850	45/1850	40/2300	40/2300	40/2300	40/2300
Hyd Pump/Drive	Cast Steel, High Volume, Gear Pump	3"/PTO Coupled	3"/PTO Coupled	2.37"/ PTO direct	2.37"/ PTO direct	2.37"/ PTO direct	2.37"/ PTO direct
Hyd Motor/Drive	Cast Steel, High Pressure, Gear Motors	2"/Direct	2"/Direct	1.5"/Sync Belt	1.5"/Sync Belt	1.75"/Direct	1.75"/Direct
Blade Option		Disc, Bar, FreeFlow	Disc, Bar, FreeFlow	NW1, NW2, NW8-5	NW1, NW2, NW8-5	BladeBar	BladeBar
Grass Shaft Option	Flail Heads Only			Yes	Yes	Yes	Yes
Blade Tip Speed	ft/min	18800	23500	12500	12500	17500	21900
Spindle/ Stubs	One piece construction, material spec	AISI 4142	AISI 4142	AISI 4340	AISI 4340	AISI 4142	AISI 4142
Blade Carrier Material	ASTM A514	ASTM A514	ASTM A514	ASTM A514	ASTM A514	ASTM A514	ASTM A514
Cut Width		48"	60"	48"	62"	48"	60"





## 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.