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MT800  
SERIES

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SERIOUS MACHINERY  
for the future of farming





## SERIOUS MACHINERY MAKING TRACKS INTO THE FUTURE

Introducing the all-new Challenger® MT800 Series tractors, a new line of heavy-duty, high-horsepower rubber-tracked farm tractors designed to stretch the limits of productivity and performance.

These new tractors are the result of decades of design and engineering leadership in rubber-belted track technology. This new lineup expands the range of horsepower and productivity growers have learned to expect from Challenger. All MT800 Series tractors feature newly-designed Cat® diesel engines, including the first modern-day 500 horsepower tractor, the MT865.

These fine machines are a blend of awesome power, cutting-edge technology and amazing versatility.

The MT800 Series is the flagship of the Challenger line of farm equipment, built to the toughest quality standards in the industry. With tracked and wheeled tractors from 23 to 500 horsepower, hay tools and combines, Challenger means Serious Machinery.

And this lineup of Serious Machinery is sold, serviced and backed by the legendary network of Caterpillar® dealers.



**MT835**

340 gross engine horsepower

**MT845**

380 gross engine horsepower



**MT865**

500 gross engine horsepower

**MT855**

450 gross engine horsepower

MAKING  
TRACKS



## BIGGER, FASTER, STRONGER, SMARTER

The Challenger MT800 Series tractors are designed from the ground up to deliver optimum power and maneuverability on tracks.

These tractors are the perfect mix of brains and brawn. Beneath that big, good-lookin' exterior pulses the industry's most sophisticated electronic operating systems, all linked together by the innovative Intellitronics™ network.

Electronic control modules on the engine, powertrain, hydraulics, hitch and other components continuously “talk to each other” and share performance data via the Intellitronics network.

That coordination enables the Challenger MT800 Series tractors to monitor and analyze performance through the Tractor Management Center (TMC), perform repetitive tasks with the One-Touch™ management system, interface with GPS-based systems like the Auto-Guide™ satellite navigation system and communicate with and control implements based on the ISO11783 system. The Intellitronics network also commands the Power Management system, to prioritize the powertrain function to match every application.

These new Challenger MT800 Series tractors are the most powerful, most sophisticated machinery in the field.



## DETAILS

**THE ALL-NEW CAT ENGINES** crank out more power than any other tractors in their class. The C12 engines in the MT835 and MT845 tractors have displacement of 732 cu. in. (12L) and produce 340 and 380 HP (254 and 283 kW). The C15 engines in the MT855 models have 893 cu. in. (14.6L) displacement, producing 450 HP (336 kW). And the MT865 delivers a whopping 500 HP (373 kW) from its 964 cu. in. (15.8L) C16 engine. These powerful engines provide superior fuel efficiency, with low noise levels and emissions to meet EPA Tier II standards.

**THE ALL-NEW CAB** boasts more glass area for superior visibility and more interior room than any other tractor in its class. The exclusive Surround-Flow™ ventilation system directs air through strategically placed vents and ducts for maximum airflow and consistent cab temperatures.

**THE ALL-NEW HYDRAULIC SYSTEM** offers one of the highest standard flow rates in the industry. Featuring up to six hydraulic valves, 43.5 gpm (165 lpm) can be pumped for the control and responsiveness required. The customer can also choose the 59 gpm (223 lpm) pump option to match the highest implement hydraulic demands. The exclusive Load Independent Flow Division (LIFD) guarantees flow to all circuits even when the total hydraulic demand surpasses the pump output.

**THE ALL-NEW POWERTRAIN** is designed by Caterpillar from the ground up for a rubber-belted tractor. The powertrain carries full horsepower in all gears. The new Cat 16F/4R Powershift transmission is built to the toughest specifications in the industry.

**MORE UNDERCARRIAGE OPTIONS** allow you to tailor the Challenger MT800 tractor to fit your operation, with four belt widths and two treadbar designs to put more power to the ground.

**THE ALL-NEW TRACTOR MANAGEMENT CENTER (TMC)** combines an innovative display with ergonomically designed controls. The TMC displays performance data in a simple format and allows you to optimize performance easily. Innovations such as the One-Touch management system, Power Management, and GPS Auto-Guide that actually steers the tractor, are all conveniently controlled using the TMC.

**THE EXCLUSIVE STEERABLE 3-POINT HITCH & CONTROLLED DRAWBAR** options provide an all-new way to match implement control with the tractor. Both of these options give the tractor better turning performance under load and allow the operator to manage how the implement trails the tractor.

**THE NEWLY-REFINED MOBIL-TRAC™ SYSTEM** features the longest wheelbase in the industry (118.1 in./3000 mm) and an in-line reaction arm that isolates tension from the driveline and tractor chassis. Changing gauge is fast and easy and can be done without detensioning the belt. The track gauge is adjustable from 90 to 128 in. (2286-3251 mm).

**THE ALL-NEW OPTI-RIDE™ SUSPENSION** provides a smooth ride over the roughest terrain. Four semi-suspended midwheels move independently, so the track follows the contour of the ground. Marsh Mellow® springs and a stabilizer bar isolate the suspended hardbar from the chassis. Left and right undercarriages operate independently and the hardbar floats so the undercarriage smoothly “walks” over obstacles.





## THE ONE-TOUCH MANAGEMENT SYSTEM



### MAXIMUM POWER OUTPUT

Heavy draft loads like a disc ripper demand maximum power to keep the tool at the proper working depth. In the Maximum Power Output mode, the tractor automatically shifts to keep the engine in the peak power range.

### CONSTANT ENGINE SPEED

When running PTO-driven implements, the Constant Engine Speed mode maintains a preset engine speed to give you constant PTO rpm throughout the entire field.

### CONSTANT GROUND SPEED

To uniformly incorporate chemicals with a field cultivator, the Constant Ground Speed mode maintains a preset ground speed by varying the engine speed and shifting the transmission automatically while providing maximum fuel efficiency.

## MANAGE THE POWER

The Power Management function works through the Intellitronics network to perform tractor and implement functions most efficiently. Operated with the Tractor Management Center (TMC), Power Management varies engine and transmission settings to optimize the tractor's power, speed, fuel efficiency and productivity.

## CONTROL AT YOUR FINGERTIPS

The One-Touch management system allows the operator to simultaneously perform a number of tractor and implement functions with the simple push of a button. One-Touch works with the Intellitronics network to record a series of events, like transmission shifting, throttle, three-point hitch position (raise/lower), PTO status (on/off), implement hydraulics (raise/lower), Power Management (on/off), and Auto-Guide, then easily repeats the series automatically, on command.



### FUNCTION DESCRIPTORS (Clockwise)

- Summary
- Performance Monitor
- Fuel Consumption
- Efficiency
- Information
- Service
- Events
- Set-up
- Guidance
- One-Touch
- Power Management
- PTO
- 3-point Hitch Steering
- 3-point Hitch
- Hydraulics 4-6
- Hydraulics 1-3

## TRACTOR MANAGEMENT CENTER

The Tractor Management Center (TMC), using the Intellitronics network, lets the operator control and monitor tractor and implement functions from the driver's seat.

With its at-a-glance display, the TMC provides the operator with a constant flow of tractor information and performance data, displayed in both easy-to-read code and text formats.



- A. THROTTLE LEVER
- B. TRANSMISSION CONTROL LEVER
- C. POWER MANAGEMENT BUTTON
- D. GEAR SELECTION BUTTONS
- E. ONE-TOUCH ROCKER SWITCH
- F. 3-POINT HITCH RAISE-WORK SWITCH
- G. TMC DISPLAY
- H. HYDRAULIC LEVERS 1-5
- I. FUNCTION SELECTOR
- J. ADJUSTMENT KNOB
- K. ENTER KEY
- L. TAB LEFT AND RIGHT KEYS
- M. 3-POINT HITCH CONTROL LEVER
- N. ROADING LOCK-OUT SWITCH
- O. HYDRAULIC LEVER 6
- P. PTO SWITCH
- Q. ELECTRONIC MIRROR CONTROL (OPTIONAL)





## NOTHING CHALLENGES CHALLENGER

For more than 75 years, Caterpillar has been the undisputed leader in track technology. And the all-new Challenger MT800 Series undercarriage from Caterpillar introduces the latest generation of leadership.

The newest, redesigned Mobil-trac system provides a better ride with more speed and mobility, with better traction, flotation and reduced compaction. This system has the longest wheelbase (118.1 in./3000 mm) in its category, with four belt widths, two treadbar designs and two widths of drive wheels, idlers and mid-wheels. The longer wheelbase provides lower ground pressure and more tractive efficiency in typical soils, and the longer footprint provides more stability and better balance in every application.

## SMOOTH TRACKING

These machines have the highest transport speed of any tracked tractor, up to 24.6 mph (39.6 km/hr). And with speed-sensitive steering, great visibility, and Opti-Ride Suspension™ this tractor is a delight to drive.

The standard Opti-Ride Suspension provides a smooth, vibration-free ride on the road or in the field. High-tech Marsh Mellow springs isolate the suspended hardbar from the tractor chassis. The left and right undercarriages raise and lower independently, and the hardbar “floats” under the chassis through the use of a stabilizer bar to allow each undercarriage to smoothly “walk” over obstacles.



Unlike the “hardbottom” design of other brands of tracked tractors in this size class, the Challenger MT800 Series tractors have four semi-suspended midwheels that move independently, allowing the track to follow the contour of the ground.

## OPTIMUM PERFORMANCE OPTIONS

The rugged rubber tracks on these tractors are designed and built by Caterpillar. Each treadbar and guide block is designed to perform in specific conditions.

Treadbars, guide blocks and the track carcasses are created from specialized rubber compounds designed to resist abrasion and wear, bonded together in an exclusive Caterpillar manufacturing process. These are the best-built, most rugged, longest-lasting belts in the industry.

**GENERAL AG BELT.** This all-purpose belt provides excellent ride, with superior belt alignment and traction in a wide range of field conditions. The general ag belts are available in three widths, 27.5 in. (699 mm), 30 in. (762 mm) and 36 in. (914 mm).

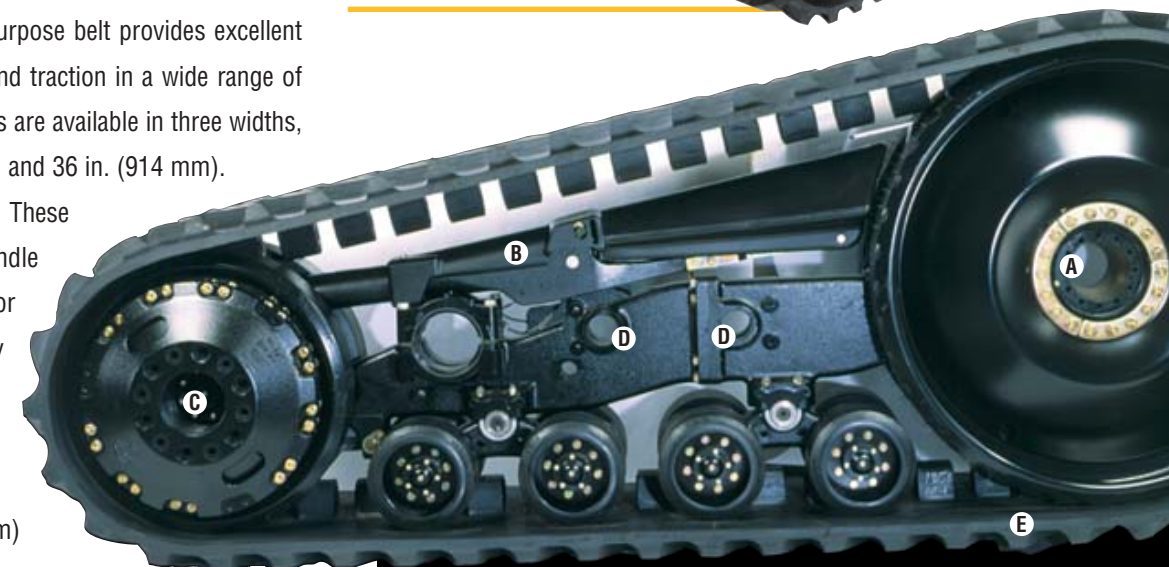
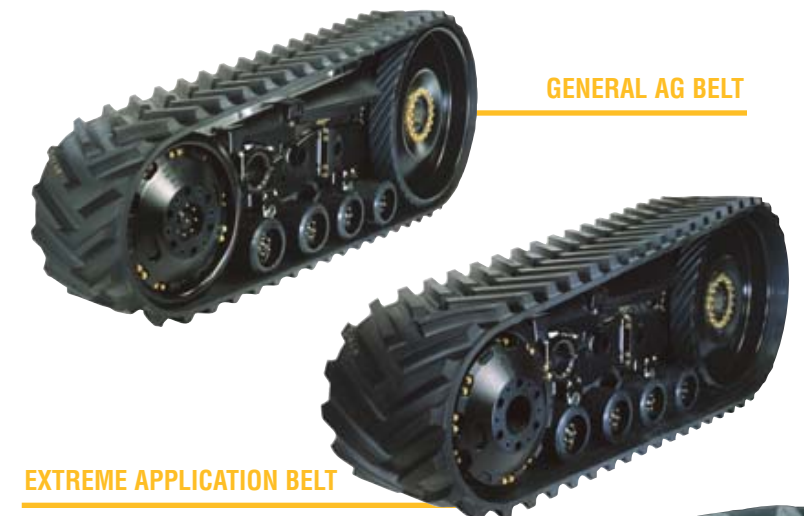
**EXTREME APPLICATION BELT.** These tough belts are designed to handle heavy road travel, steep side slopes or abrasive traction conditions. They feature a thicker carcass, wider treadbars and longer guide blocks. They’re available in 18 in. (457 mm), 27.5 in. (699 mm), 30 in. (762 mm) and 36 in. (914 mm) widths.

## LIGHT ON ITS FEET

When equipped with narrow belts, this big machine becomes the only high-horsepower belted ag tractor capable of operating in a wide range of applications, including row crops. The track gauge is easily adjustable, from 90 in. (2286 mm) to 128 in. (3251 mm), without spacers, bolts or detensioning the belt.

The Challenger MT800 Series tractors have a standard 305 gal. (1155 L) capacity fuel tank with an optional additional 25 gal. (95 L) tank. This total 330 gal. (1249 L) capacity fuel system is standard on the MT865.

The versatility of the MT800 Series Challenger tractors allows maximum utilization, which means improved profit margins with fewer tractors.



**A. LARGE DIAMETER DRIVER.** Higher crop clearance under the axles, plenty of belt-to-driver grip and longer belt life are among the benefits of the large diameter, 61-inch (1549 mm) driver, the largest in its class. The wide chevron grooves on the surface of the driver shed mud and increase driver grip.

**B. IN-LINE REACTION ARM.** The unique in-line reaction arm tensions each belt independently and keeps that tension in line and isolated from the tractor drive axles and frame. The 25,000 pounds (111.21 kN) of tension provides optimum belt-to-driver grip without placing stress on the tractor frame. Quick, easy gauge changes can be made without detensioning the belt.

**C. FRONT IDLER.** The 37-inch (940 mm) diameter front idler reduces rolling resistance and improves belt wear life. The rubber-coated surface is smooth for reduced vibration.

**D. MOUNTING HOLES.** Mounting holes for chemical tanks and other attachments are built right into the Mobil-trac™ system to ensure maximum versatility and tractor balance.

**E. ADVANCED RUBBER COMPOUNDS.** Rubber compounds individually formulated for treadbars, belt carcass and guide blocks are used in the Caterpillar belt manufacturing process. An arrangement of four or more layers of steel cable provides precise tracking, strength, and durability.





## LUXURIOUS

### COMFORT AND CONTROL

The cab of the Challenger MT800 Series tractor surrounds the operator with luxury and comfort. The appointments, features and controls are all designed to make long hours in the field as comfortable and stress-free as possible.

These cabs were designed by ergonomic experts, with direct input from farmers, to make these state-of-the-art interiors the finest in the industry.

These quiet cabs have unprecedented space (108 cu. ft./3.06 cu. m) and all-around visibility from the high operator position. All controls are positioned logically and ergonomically. The Tractor Management System, integrated into the driver's seat armrest, puts control of most major functions at the operator's fingertips.



Several sound systems are available, including amplified sub-woofer and six CD changer. The optional remote radio controls mounted on the steering wheel allow the operator to make adjustments without taking his hands off of the wheel.

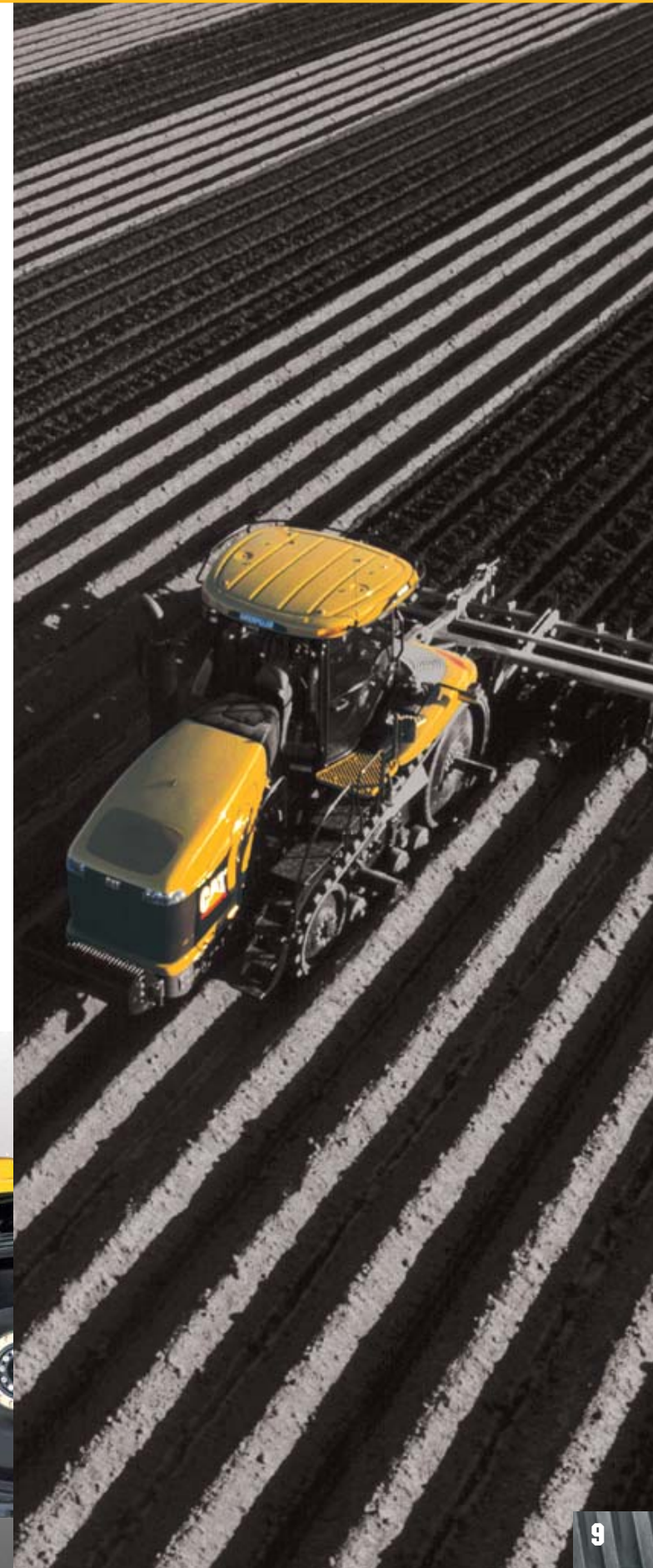
The Surround-Flow ventilation system, with 12 vents located throughout the cab, keep air moving through the cab at a constant temperature.

The unique, patented single-spoke steering wheel provides optimum control without obstructing the dash panel. The wheel telescopes and tilts, and for easy steering, there's a specially textured round ball on the wheel which operates like an old-fashioned "spinner ball". The all-new electronically controlled speed-sensitive steering feels right and minimizes operator fatigue during long hours in the field.

The air-suspension operator's seat is designed to support any operator in complete comfort. Seat height, suspension, ride firmness and lumbar support are adjustable, and the seat adjusts seven inches (178 mm) fore and aft.

It's equipped with fore-aft and side-to-side isolators, and swivels 25 degrees right and 10 degrees left, making it easier to keep an eye on rear-mounted implements, and easier to get in and out of the cab.

The tractor is equipped with a standard, instructional seat, complete with retractable seat belt, and the backrest folds down to provide a cup holder and worktable with plenty of room for a laptop computer.





## MORE COMFORT AND CONVENIENCE

The Challenger MT800 Series tractors are designed inside and out to deliver more operator comfort and convenience than any other farm tractor in their class.

The spacious cab, with 64 square feet (6.3 sq. meters) of useable glass area, gives the operator a commanding view of everything to the front, rear and sides. The parallel-sweep front wiper fully clears the windshield, and the optional right side wiper keeps the right window clear as well.

For an unobstructed view of wide implements, rear ROPS cab posts are in line with the operator's shoulder, and the swivel seat allows a view of the implements with minimum strain. Tinted glass and optional retractable sun visors reduce the sun's glare and help keep the interior cool on the hottest days.



Shallow angle steps make the Challenger easy to enter and exit, and the optional second handrail offers additional support.



Both standard and optional lighting packages provide the best lighting in the industry. The deluxe lighting package adds three exterior courtesy lights and four additional rear roof lights. The Nightbreaker™ light option features four HID lights (two in the front and two in the rear) for excellent visibility of not only what is in front, but more importantly, of the huge implements these powerful tractors are pulling. The rear lights easily adjust for the operator to see exactly what needs to be seen.

Plenty of storage area is designed into the interior. There's a cell phone holder, a coat hook, a temperature-controlled compartment to keep your lunch warm or cool, and more storage areas located throughout the cab. A large toolbox is integrated into the entry platform to keep tools, chains, and other necessities outside the cab where they belong.



You can easily install auxiliary equipment like monitors, radios, etc., with the 10 mounting bosses provided. An optional monitor mounting bar provides ample space to attach several monitors within easy reach to the operator. Two auxiliary electrical circuits (one 3-pin ag plug and one 12-volt power outlet) provide power. A second DIN radio slot is built into the headliner and pre-wired for installing a communications radio or GPS receiver. The Power Pack™ option features two additional 3 pin connectors, a terminal strip, and rocker switches to attach and control multiple electronic options.







## WORKING THE BUSINESS END

The Challenger MT800 offers a standard wide-swinging roller drawbar and an optional controlled drawbar. In the “manual” mode, the operator can use the controlled drawbar feature to adjust the drawbar for proper position on sidehills or “trim” the draft of offset implements. The “float” mode can be used to dampen the movement of the drawbar’s swing from left to right by selecting the appropriate percentage for the draft load of the implement.

Challenger MT800 Series 3-point hitches are designed as an integral system to provide maximum lift capacity, lift height and control. That heavyweight strength, coupled with the articulated design of this “steerable” hitch, delivers superior performance and greater productivity with 3-point mounted tools.

The new Caterpillar-exclusive steerable 3-point hitch improves turning performance in tillage and row crop applications. The articulated design improves the steering performance while turning under load. It provides excellent maneuverability and control that makes it easier to follow field contours with mounted implements. The manual and float modes provide the best operator control and tractor performance of any tractor in its class, anywhere in the world.



## RAISING THE POWER STANDARDS

The hydraulic system in the MT800 Series tractors delivers superior performance to meet today’s demanding requirements. With 43.5 gpm (165 lpm) standard and 59 gpm (223 lpm) optional flow capacity, these machines not only handle today’s requirements, but can deal with the increasing demands for higher capacity as implements demand more and more hydraulic flow.



Remote hydraulics are precisely controlled through the IntelliTronics network. You can adjust flow and set time detents for each circuit to precisely adjust individual valve operations.

The hydraulic system has four remote hydraulic valves standard and options for five or six. The system shares a common sump that also provides lubrication for the PTO, transmission, brakes and differential, supplies pilot control oil for the steering, transmission and PTO, and provides system oil for the implement and steering hydraulic systems. The steering, transmission and implement hydraulic systems each have their own separate filtration system to protect the pumps, valves and motors from contamination. An integrated cooling system keeps all this oil running at optimum temperature.

The Challenger-exclusive Load-Independent Flow Division (LIFD) maintains proportional oil flow to all circuits when the system is operating at full capacity. The LIFD delivers non-stop operation even when hydraulics are demanding combined flow in excess of total pump capacity. In contrast to all competitive hydraulic systems that can’t proportion their flow to keep all the circuits operating properly when pump capacity is exceeded, the MT800’s system keeps all circuits functioning proportionally at all times.

# POWERFUL







## BUILT FOR THE TRACK

The drivetrain on the Challenger MT800 Series is designed and engineered to transfer the serious power of the Caterpillar diesel engines to the ground-grabbing tracks. These aren't converted from a wheeled tractor powertrain. They're the strongest, most durable drivetrains in the industry.

The powerful Caterpillar diesel engines are coupled with the all-new 16F/4R powershift transmission, steering differential and final drives, designed specifically for the MT800 tractors.

The newly-designed powertrain delivers the optimum in rugged performance and durability, and every system is tested as a unit before it's installed in a tractor.

Control of the engine, powertrain and hydraulics is integrated through a system of six on-board computers. These computers control state-of-the-art features like Intellitronics, Power Management, One-Touch, Auto-Guide and much more.

These rugged transmissions are built with heavy duty cast iron housing, high-capacity bearings and shafts for long-term durability. All gears are cut to provide maximum gear tooth contact with a minimum of noise.

The transmission has nine individual clutch packs with seven rotating and two stationary clutches. Each of the 16F/4R gears is engaged when a combination of one range clutch and one speed clutch is engaged. The tractor will not "freewheel" in any gear, and maintains constant speed, so the operator is always in control, even on the steepest grades.

### SERIES WORKING RANGES

Eight gears in the 4 to 9.3 mph (6.5 to 14.9 Km/h) operating range give the responsiveness and productivity your applications require. Closely spaced gear splits concentrated in the primary working range were designed with engine torque rise and operating rpm to deliver the most usable power.

Gear	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16*
MPH	1.7	2.1	2.7	3.4	4.0	4.5	5.1	5.8	6.5	7.3	8.2	9.3	11.0	14.0	17.7	24.6
Km/h	2.7	3.4	4.3	5.4	6.5	7.3	8.2	9.3	10.4	11.7	13.2	14.9	17.7	22.5	28.5	39.7

\*In 16, the maximum engine speed increases to 2300 rpm.

## CONTROLLED POWER

The electronic transmission control and the electronic engine control work together, linked through the Intellitronics network, to manage the shifting function. These electronic controls minimize shifting harshness, improving shift quality at any operating temperature, under all load conditions. The various electronic controls in the drivetrain also allow the operator to choose from six shifting modes.

**SHUTTLE SHIFTING** quickly changes direction of the tractor without the need to use the inching pedal or to come to a complete stop before shifting between forward and reverse.

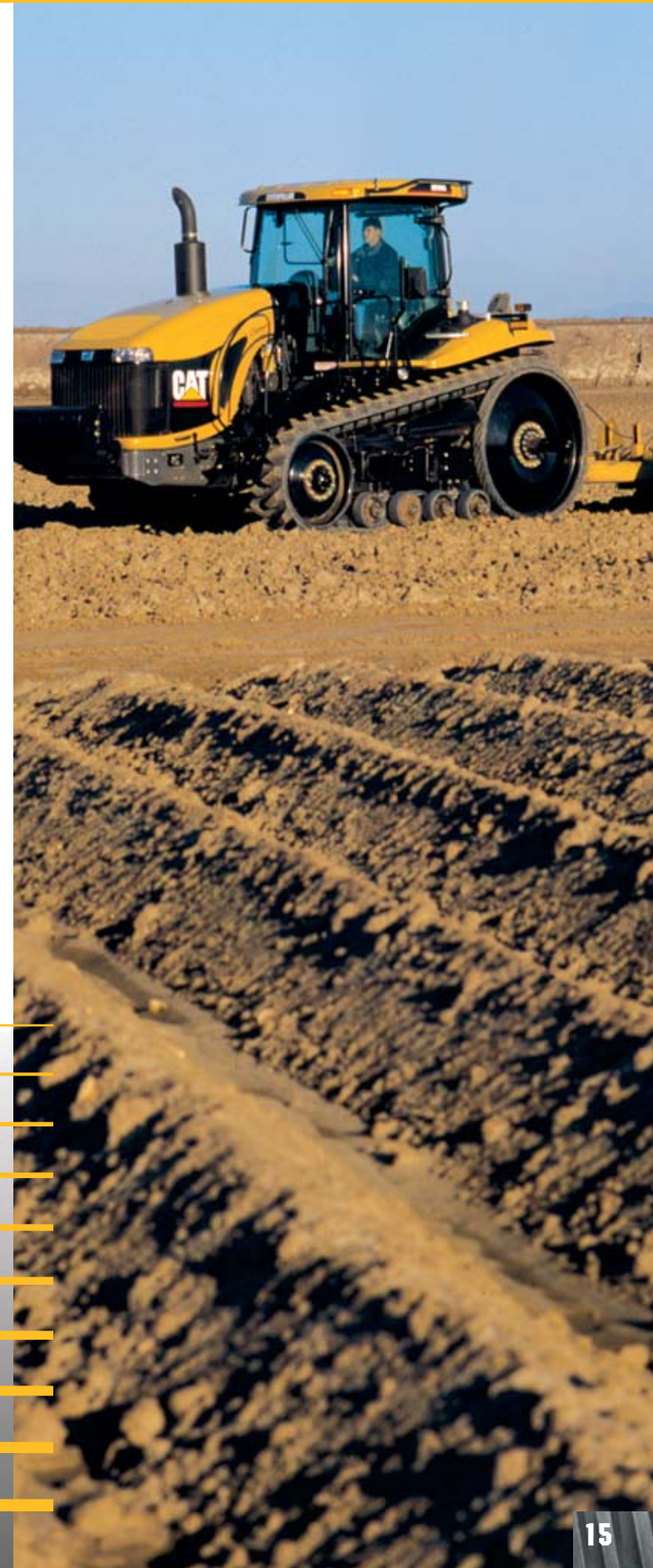
**PROGRAMMABLE SHIFTING** enables the operator to select the desired reverse or forward gear the tractor will shift to when shuttling between forward and reverse.

**CONTINUOUS SHIFTING** provides smooth shifts in either forward or reverse when the operator holds the upshift or downshift button.

**SEQUENTIAL (PULSE) SHIFTING** can be used when a single upshift or downshift is desired. With a push of a button, the tractor responds with a single shift.

**PRE-SELECT SHIFTING** enables the operator to select the desired start gear before the transmission is engaged. This allows for loaded starts by monitoring clutch slip and automatically downshifting if it senses too much clutch slip.

**SPEED MATCHING** controllers on the tractor evaluate the current ground speed and current engine speed, then select the transmission gear that most closely matches both when the inching pedal is depressed.

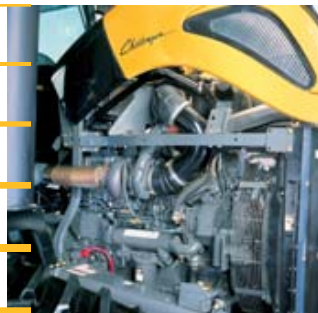




## STRETCHING THE LIMITS

These massive new Challenger MT800 Series tractors are powered with the latest in engine technology from Caterpillar. And they lead the high-horsepower tractor category with the first modern-age 500 horsepower tractor, the MT865.

With a broader range of power choices and better power splits, the Challenger MT800 Series offers the variety and versatility to tackle any project. These tractors are available in four models, with the broadest range of horsepower choices in the category. All four models meet the new 2003 Tier II federal government diesel engine emission regulations.



The C16 is the largest displacement agricultural tractor engine on the market.

Cylinder blocks are a heavy-duty serpentine design, with fewer sealing joints and large oil and coolant passages. An integral oil cooler eliminates external oil lines, and reduces the width of the engine envelope.

Cylinder heads are a four-valve, uni-flow design for better circulation of air and coolant. High-pressure injectors are centered vertically, for optimum fuel spray patterns. Pistons are a two-piece design, with a steel crown for strength and aluminum skirt for lower weight and tighter clearance to reduce piston slap.



Wet, high-strength gray iron cylinder liners have hardened, plateau-honed surfaces, and a mid-supported design for better head/block sealing. The mid support allows for a higher top-ring position, which improves cooling, fuel consumption and economy.



The 340 HP (254 kW) MT835 and the 380 HP (283kW) MT845 machines are powered by the Caterpillar C12 engine, with 12 liter (732 cu. in.) displacement.

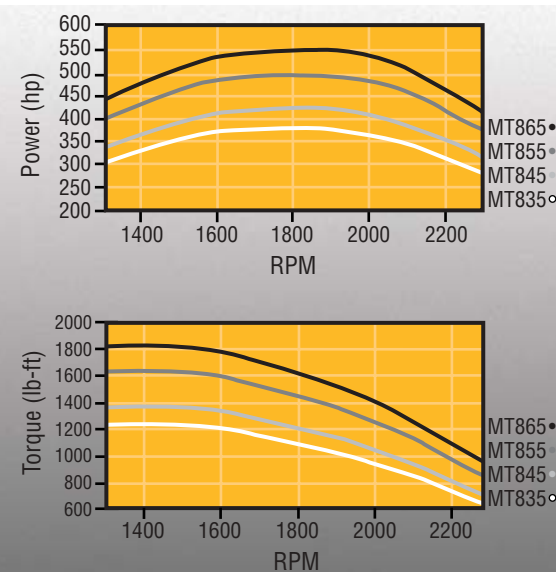
The Challenger MT855 is powered by the 14.6 liter (891 cu. in.) Caterpillar C15 engine, with a gross horsepower rating of 450 HP (336 kW).

And the top-of-the-line MT865 is powered by the Caterpillar C16 engine, with 15.8 liter (964 cu. in.) displacement, rated at 500 HP (373 kW).

All of these engines use mechanically actuated, electronically-controlled unit injectors (EUI) and air-to-air aftercooling (ATAAC).

All four models deliver awesome pulling power, with 42% torque rise and 8% power growth, for the gutsy lugging power to pull through the toughest spots in your field. The MT865 pulls back to approximately 545 ghp at 1800 rpm.

# HORSEPOWER





## DAILY ROUTINE

With the Challenger MT800 you can complete regular maintenance checks quickly and accurately.

- The gas strut-assisted, tilt-up hood opens from the front permitting wide-open access to all key engine service points.
- The engine oil level can be checked and topped up quickly with the ground-level dipstick and oil filler port on the left side of the tractor.
- The single point of fuel fill is easily accessible from the entry platform.
- Oil and filter changes are made easy with strategically located vertical filters.
- The engine air filter slides out easily for replacement, and cooling cores swing forward without tools to remove debris.
- The air filter for the cab is conveniently located under the roof overhang, and can easily be removed for cleaning or replacement.
- A 150 pound-capacity (68 kg) toolbox is built into the steps for easy access.
- The maintenance-free batteries are located in front of the radiator.



An easy-to-view sight gauge at the rear of the tractor gives the operator a quick check of the combined hydraulic, transmission, steering, differential and final drive oil levels, and there are quick-disconnect ports for all oil sample points.

## KEEP 'EM ROLLING

With Challenger MT800 Series tractors, you'll spend less time on general maintenance, and more time working in the field. The innovative on-board Tractor Management Center monitors long-term service intervals and alerts the operator when scheduled maintenance is due. The TMC screen provides diagnostics in both text and code.

## FAST TRACK

The Challenger is the most versatile high-horsepower tracked tractor on the market, and it can convert from a mighty tillage titan to a precision row crop tractor with a few easy adjustments.

The track gauge width is adjustable from 90 to 128 inches (2286 mm to 3251 mm), without detensioning the belt, in about two hours. Simply loosen the hardbar bearing caps and raise the tractor chassis. Loosen the collet bolts and with the gauge adjustment tool, adjust the gauge to the desired width. Re-torque the bolts, lower the tractor to the ground and you're ready to go. Four belt widths ranging from 18 to 36 inches allow the grower to run between the rows or pull huge tillage tools. This is truly the most versatile high horsepower tractor in the world.



Challenger tractor owners can choose the innovative Product Link system that transmits service data directly from the tractor's Intellitronics system to the dealer. Service meter readings, machine location and diagnostics alert service technicians to potential problems before they occur. They also notify the owner and the service department of scheduled and routine maintenance.

# SERVICE

## SERIOUS DEALERS. SUPERIOR SERVICE.

When you're racing against time to get a crop in the ground or out of the field, you need a dealer you can count on. And that's what you get with a Challenger MT800 Series tractor from your authorized Caterpillar dealer.

Cat dealers are second to none when it comes to on-farm service. With mobile service trucks that carry more diagnostic equipment than most competitive repair shops. Highly trained service technicians who work as hard at preventing problems as they do at fixing them. Plus, a 24-hour a day parts network that helps minimize downtime and maximize productivity.

When you own a Challenger, you know that you're backed by the finest dealer network in the world.





EFFICIENCY

SERIOUS NAVIGATION

For faster, precision farming, the optional Auto-Guide satellite navigation system uses cutting-edge GPS technology to guide your equipment through your fields at higher rates of speed and accuracy. This is especially valuable for more accurate operation at night or in low visibility conditions.

The Auto-Guide system steers the tractor, without operator input, to make parallel swaths for improved efficiency and reduced operator fatigue. The system is available with optional upgrades that provide accuracy from 10 inches pass to-pass, down to less than one inch absolute.

The Auto-Guide system is fully integrated into the Intellitronics network. It can be engaged using the Challenger One-Touch function, and is supported under the tractor's diagnostic system. The GPS receiver also transfers location information to variable rate controllers on the implement via the industry-standard ISO11783 network.



The Auto-Guide system is operated and monitored on the TMC screen. A status indicator on the dash panel notifies the operator when the Auto-Guide system is ready to control the primary steering. The system disengages automatically when the operator resumes steering the tractor.

CHALLENGER SPECIFICATIONS

TRANSMISSION	Cat Powershift 16F/4R
Transport speed	24.6 mph (39.6 kph)
DIFFERENTIAL/STEERING	Cat differential, electrohydraulic
GAUGE	90" to 128" (2286-3251 mm)
GAUGE ADJUSTMENT METHOD	Bar axle
BELT OPTIONS	
General Ag	27.5", 30", 36" (699, 762, 914 mm)
Extreme Application	18", 27.5", 30", 36" (457, 699, 762, 914 mm)
UNDERCARRIAGE	
Wheelbase	118.1" (3000 mm)
Hardbar Suspension	Two Marsh Mellow® springs
Undercarriage Suspension	Suspended Midwheels
Idlers	Medium, Wide
Midwheels	Medium, Wide
Drivers	Medium, Wide
HITCH	
Standard wide-swinging roller drawbar	32 degree swing
Optional controlled drawbar	Hydraulic control
Optional controlled 3-pt. hitch and free swinging drawbar	28 degree swing
Lift Capacity	19,500 lb (8845 kg)
PTO (optional)	1000 RPM
HYDRAULICS	
Max. flow (standard)	43.5 gpm (165 lpm)
Max. flow (optional)	59 gpm (223 lpm)
Max. system pressure	2900 PSI (19994.8 kPa)
Remotes standard/optional	4/5/6
Exclusive features	Load-Independent Flow Division
FUEL CAPACITY	
MT835	305 U.S. gal (1155 L) Optional 330 U.S. gal (1249 L)
MT845	305 U.S. gal (1155 L) Optional 330 U.S. gal (1249 L)
MT855	305 U.S. gal (1155 L) Optional 330 U.S. gal (1249 L)
MT865	330 U.S. gal (1249 L)
OTHER KEY FEATURES	
Instructional seat	Standard
Toolbox	Standard, 24" (610 mm) length, 150 lb (68 kg) capacity
Decelerator pedal	Standard
Optional external mirrors	Manual or electric
Auto-Guide satellite navigation	Optional
Caterpillar Product Link	Optional
Battery disconnect	Optional
Nightbreaker HID lights, 4 HID lights	Optional
Steering wheel radio controls	Optional



MT835

GROSS ENGINE HP	340 (254 kW)
RATED PTO HP	275 (205 kW)*
Engine torque rise	42%
Engine	Caterpillar C12
Engine displacement	732 cu. in. (12L)
Governor type (HEUI)	Electronic
Alternator	160 amp



MT845

GROSS ENGINE HP	380 (283 kW)
RATED PTO HP	313 (233 kW)*
Engine torque rise	42%
Engine	Caterpillar C12
Engine displacement	732 cu. in. (12L)
Governor type (HEUI)	Electronic
Alternator	160 amp



MT855

GROSS ENGINE HP	450 (336 kW)
RATED PTO HP	374 (279 kW)*
Engine torque rise	42%
Engine	Caterpillar C15
Engine displacement	891 cu. in. (14.6L)
Governor type (HEUI)	Electronic
Alternator	160 amp



MT865

GROSS ENGINE HP	500 (373 kW)
RATED PTO HP	416 (310 kW)*
Engine torque rise	42%
Engine	Caterpillar C16
Engine displacement	964 cu. in. (15.8L)
Governor type (HEUI)	Electronic
Alternator	160 amp

\*Manufacturer's estimate