

Challenger MT800C/MT900C

# Challenger<sup>®</sup> MT800C/MT900C



We're up to  
**The Challenge**

**MT800C/MT900C SERIES**

410 to 585 Engine HP



# Meet the Technologically Advanced “C” Series

For more than two decades, Cat®-powered Challenger tractors have been hard at work in some of the world’s most demanding and challenging conditions. Whether it’s involved hauling supplies over the ice in Antarctica, building American roads and interstate highways or pulling a chisel plow or air seeder on North America’s most productive farms, Challenger tractors have been providing power and productivity at new levels of efficiency.

Now, Challenger is raising the bar even higher with the introduction of the MT800C Series track tractors and MT900C four-wheel-drive articulated tractors. Both lines are loaded with new features and improvements designed to make you even more productive and efficient.

- New digital dash display that’s easier to read and now indicates selected gear, ground speed and service hours.
- Redesigned Tractor Management Center that provides simpler, more intuitive operation.
- New hydraulic system with a higher degree of control, higher flow and greater adaptability.
- An integrated ISOBUS control system that helps optimize productivity and performance of the tractor and any attached ISOBUS compliant implements.
- New horsepower levels that push the MT800C and MT900C models to a new plateau...where they continue to reign as the highest-horsepower, commercially available tractors in the world.
- Best of all, they’re still sold, serviced and backed by the legendary network of Caterpillar dealers.

### The Challenger Difference

There are currently more than 20,000 Challenger track tractors in use worldwide in all types of crops and environments, providing clear evidence of their strength and durability.



### Nine Models in Five Sizes

Model	Gross Engine HP	PTO HP
MT835C	410 (306 kW)	335 (249 kW)
MT845C/MT945C	440 (328 kW)	360 (268 kW)
MT855C/MT955C	475 (354 kW)	385 (287 kW)
MT865C/MT965C	525 (391 kW)	425 (316 kW)
MT875C/MT975C	585 (436 kW)	425 (316 kW)

### Moving Forward Toward A Bright Future

For more than 20 years, the Challenger name and logo have been synonymous with track tractor performance. However, today’s Challenger equipment line goes far beyond track tractors and reduced compaction. These days, your Challenger dealer also carries a rugged line of wheel tractors from 45 to 585 engine horsepower; a high-quality family of hay equipment and a full line of Challenger combines.

It all started in March 2002, when AGCO Corporation acquired the highly respected Challenger line of track tractors from Caterpillar® and began expanding it into a full line of farm machinery. Equally

important, Challenger partnered with Caterpillar and the Cat® dealer organization to develop the highest level of customer satisfaction in the world. Nobody commands more respect for their integrity, in-field service and parts support than the Cat dealer network.

No wonder Challenger is the fastest-growing equipment brand in North America. Quality products backed by impeccable dealer support. That’s what it’s all about in today’s farming environment.

### Built In America



Challenger track tractors are manufactured with careful attention to detail in the small town of Jackson, Minnesota. It’s a community with strong agricultural ties and a place where employees understand that quality can’t be inspected in...but rather has to be built-in.

# ADVANCED



We're up to  
The Challenge 3

MORE MUSCLE

Challenger

Challenger

CAT<sup>®</sup>  
Power

# Cat® Engines

## Stretch The Limits On Horsepower

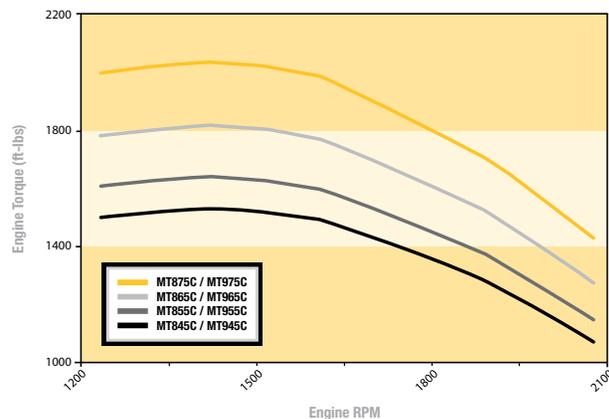
It only takes one word to describe the strength, power and performance of the Challenger MT800C/MT900C powerplant — Caterpillar®.

Featuring the latest ACERT® technology, the Cat® engines used in both the MT800C and MT900C Series models meet all mandated Tier III emissions requirements...without sacrificing performance, durability or reliability.

Equally important the Cat C15 and C18 used in the MT800C and MT900C Series models have already proven to be both efficient and reliable in literally thousands of off-road applications by Caterpillar and a host of other heavy equipment and truck manufacturers.

The Challenger MT835C, MT845C, MT855C, MT945C and MT955C each feature a Cat C15 diesel engine with a 15.2-liter (928-cu.-in) displacement, while the MT865C, MT875C, MT965C and MT975C boast a massive 18.1-liter (1,105-cu.-in.) Cat C18 ACERT diesel — the largest displacement agricultural tractor engine on the market.

With up to 42% engine torque rise, the Cat® C15 and C18 ACERT engines deliver exceptional pulling power in all conditions. Under heavy loads, the MT875C and MT975C, for example, have the ability to generate more than 630 engine horsepower (470 kW) — more than any other tractor in its class.



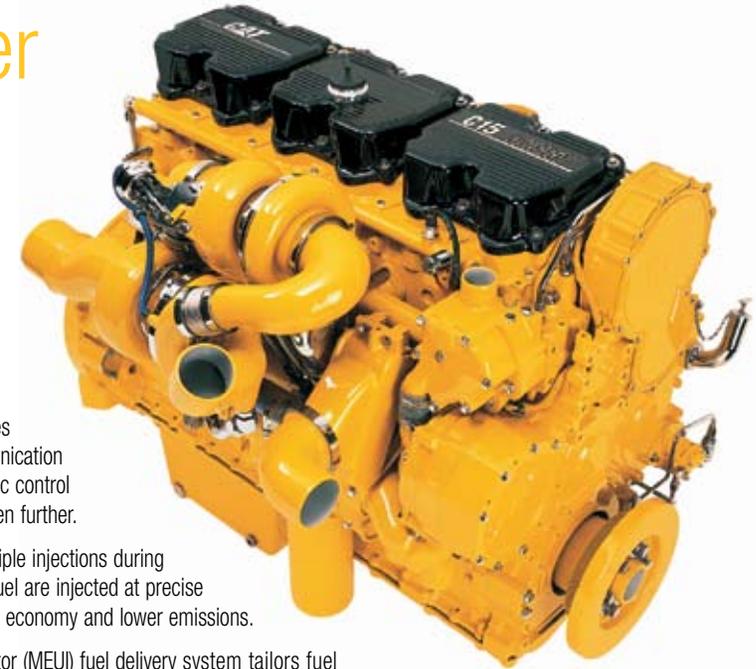
### Advanced Engine Control

The ADEM® 4 electronic control system enables smooth power delivery by coordinating communication between the engine and transmission electronic control modules, taking diesel engine performance even further.

- A more efficient fuel system allows for multiple injections during each combustion cycle. Small amounts of fuel are injected at precise times to achieve the combined goals of fuel economy and lower emissions.
- The patented Mechanical Electric Unit Injector (MEUI) fuel delivery system tailors fuel injection rates to operating conditions, reduces noise and emission levels, and improves fuel economy.
- Mid-support of the cylinder liners decreases vibration, which, in turn, reduces engine noise and wear on the cylinders and cylinder liners.

### Engine Speed Memory

New to the "C" Series is an engine speed switch that allows the operator to select two memory settings for consistent engine speed during field operations and/or headland turns.



### The Challenger Difference

The real test of an engine is in its ability to maintain power while lugging through tough spots and encountering heavy loads. With continued torque rise down to 1,400 RPM, the MT800C/MT900C Series models have the built-in reserve that today's farmers demand.

# Shift To Greater Productivity



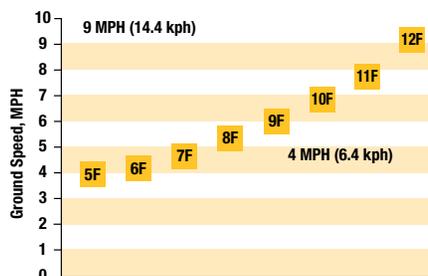
The Cat-built 16F X 4R electronically controlled powershift transmissions used in the MT800C and MT900C were specifically designed for the track and four-wheel-drive applications respectively. Then, each was extensively tested in tough, real-world situations like yours before it was ever released to production. Moreover, both have been proven reliable in literally hundreds of thousands of hours of field use.

Still, nothing is left to chance. So every powertrain is retested at the factory to ensure it meets Challenger specifications before going into an MT800C/MT900C Series tractor.

## Electronic Communication

Hundreds of times per second, the transmission and the Cat ACERT engine are in communication to provide optimum productivity and performance. Before the transmission executes a shift, it senses how much load the engine is experiencing to deliver smoother shifts and longer life for all components.

## Built For The Field



Eight gears in the popular 4 to 9.3 mph (6.5 to 14.9 kph) operating range provide the responsiveness and productivity your applications need. Closely spaced gear splits, concentrated in the primary working range, were designed with the engine torque rise and operating rpm in mind to deliver the most usable power.

Pre-select any starting gear up to 10th gear forward; then shift sequentially, using the buttons on the transmission lever. You can also program any forward gear between one and seven as the default starting gear. Once set, it remains in the memory, even after power down.

## The Challenger Difference

Cat reliability, matched with new ISOBUS electronics, provides the smoothest shifting, most reliable transmission in the industry.

## Power Management Made Easy

Designed to get the job done faster and more efficiently, Power Management is a control strategy that coordinates engine speed with transmission and hitch settings in a choice of two modes. A rocker switch on the console lets you select or change modes to quickly match operating conditions. Once selected, the Power Management mode is retained even after tractor shutdown.

## Maximum Power Output

Heavy draft loads demand maximum power to keep the tool at the proper working depth and keep you moving. Maximum Output mode assists by automatically shifting to keep the engine in the peak power range where horsepower and torque is maximized. Productivity and efficiency will be optimized by letting the tractor do the work for you which will let you get home sooner at the end of the day.

## Constant Ground Speed

Maintaining a steady speed for applications like general tillage and seeding is effortless using the Constant Ground Speed mode. Like the cruise control on your automobile, it achieves a preset ground speed by varying the engine speed and transmission gear. However, Constant Ground Speed will also make automatic downshifts under high load conditions to prevent engine stall. Once the load reduces, the system automatically up-shifts and throttles back to return to the desired ground speed, assuring you of maximum efficiency.

## Speed-Sensitive Steering

The MT800C Series track tractors feature true speed-sensitive steering that is infinitely adaptable within the speed range. At slower field speeds, the steering is more sensitive, with minimal inputs required to make corrections. At higher transport speeds, the steering is less sensitive, so corrections are always controlled and predictable.

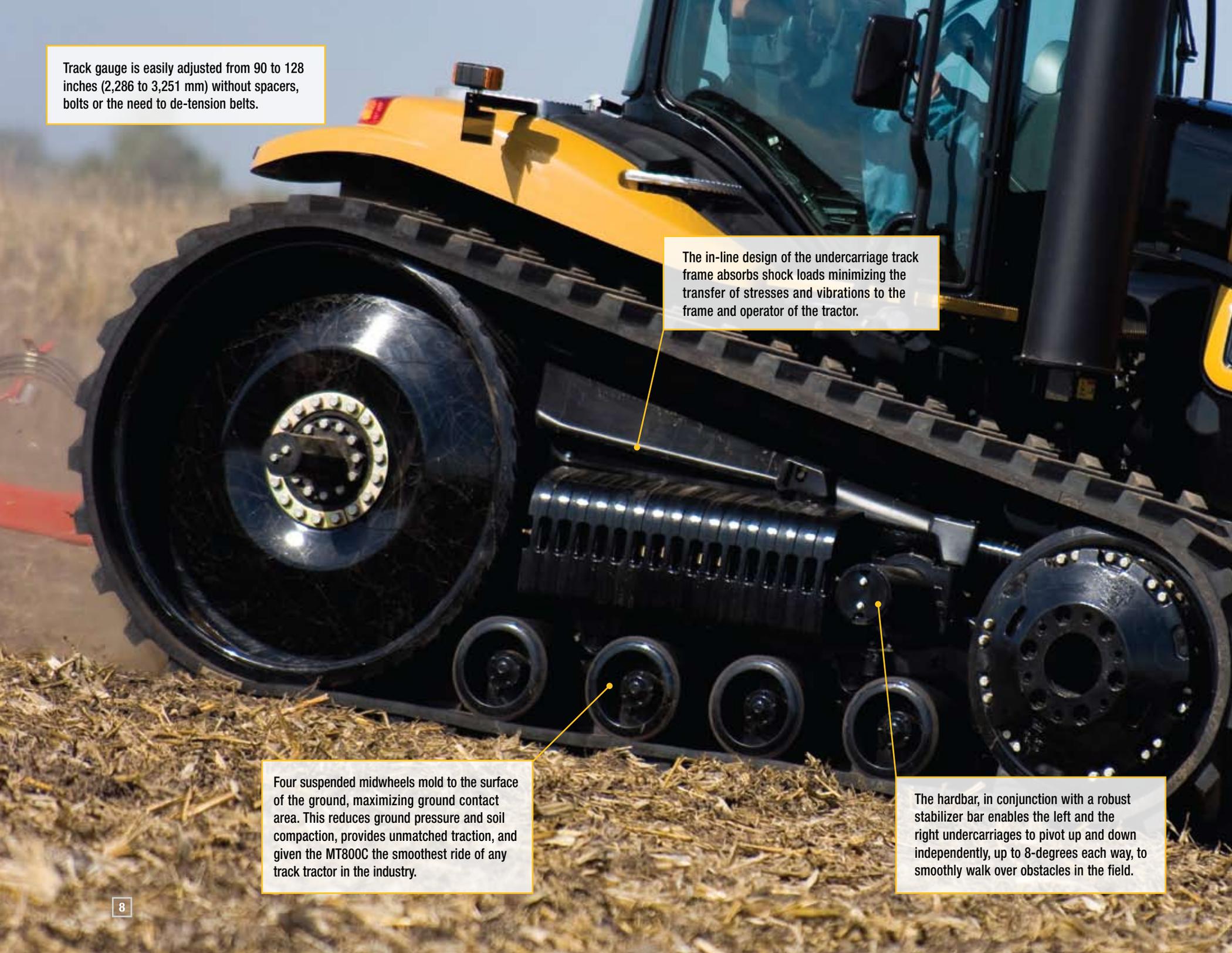


Featuring the highest transport speed of any track tractor the Challenger MT800C series travel up to 24.6 mph (39.6 kph) for quicker moves between fields and more productivity per day.



# PRODUCTIVITY

We're up to  
The Challenge 



Track gauge is easily adjusted from 90 to 128 inches (2,286 to 3,251 mm) without spacers, bolts or the need to de-tension belts.

The in-line design of the undercarriage track frame absorbs shock loads minimizing the transfer of stresses and vibrations to the frame and operator of the tractor.

Four suspended midwheels mold to the surface of the ground, maximizing ground contact area. This reduces ground pressure and soil compaction, provides unmatched traction, and given the MT800C the smoothest ride of any track tractor in the industry.

The hardbar, in conjunction with a robust stabilizer bar enables the left and right undercarriages to pivot up and down independently, up to 8-degrees each way, to smoothly walk over obstacles in the field.



# The World Leader In Track Technology

For more than 100 years, Caterpillar® has been the hands-down, undisputed leader in track technology. It was in 1904 that Benjamin Holt, one of Caterpillar's founding fathers, first demonstrated his concept for a machine that moved on self-laying tracks. Eighty-three years later, Cat introduced the world's first rubber-tracked farm tractor, designed to stretch the limits of productivity and performance. Today, at 118.1 inches (3,000 mm), the MT800C Series Mobil-trac™ system wheelbase is first again, as the longest in its power class. Thanks to the long wheelbase and six-axle design, tractor weight is distributed over a greater area for lower ground pressure and more tractive efficiency in typical soils.

### The Challenger Difference

The Mobile-trac's longer wheel base remains in constant contact with the ground for better traction, more pulling ability, greater efficiency and a smoother ride, which means you get more work done in a day.

### The Softest Ride In the Industry

Whether you're on the road or in the field, the most appreciated features of the MT800C Series Mobil-trac system are the exceptional traction and comfort.

Fatigue and distraction are only a couple of the effects of long days and rough fields. The Challenger Mobil-trac system helps combat both issues. Thanks to our exclusive Opti-Ride™ suspension, which literally molds the track to every ridge, bump and rut the tractor encounters, the operator experiences a softer ride.

Challenger's unique Mobil-trac system has no grease zerks or daily maintenance points. Simple adjustments to alignment or tension pressure can be made easily and quickly when necessary.

### A Wide Choice Of Belt Options

All total, belts are available in three widths and two types, while idler, midwheels and driver are available in two different widths to improve belt life and belt-to-driver performance.

#### General Ag Belt

Available in two widths — 30 inch (762 mm) and 36 inch (914 mm) — the general ag belt is equipped with 4.5-inch (115 mm) long guide blocks and 2.7-inch (68.5 mm) tall treadbars for dependable traction in a variety of agricultural conditions.

#### Extreme Application Belt

This tough belt is a good choice for applications that involve a large amount of road travel, steep side slopes or abrasive underfoot conditions. Equipped with longer, 5.3-inch (135 mm) guide blocks, taller, 3-inch (76 mm) treadbars, an additional layer of steel cables and an extra layer of rubber, the belts are available in 18-inch (457 mm), 30-inch (762 mm) or 36-inch (914 mm) widths.

	18"	30"	36"
General Ag Belt		X	X
Extreme Application Belt	X	X	X

### Balance The Load With Ballast

Proper ballasting is essential for peak performance, whether you're running on tracks or tires. Challenger offers everything you need to balance the load for maximum traction and fuel efficiency. Track tractor options include a full rack of suitcase weights on the front, wheel weights for the idler wheels and a bank of undercarriage weights.

# The Optimum Balance of Strength and Agility

There's a fine balance involved in building the world's most powerful 4-wheel-drive articulated tractor. It needs to be heavy enough to transmit the horsepower to the ground — a maximum operating weight of 60,000 lbs (27,216 kg) on the largest MT900C Series models means that the power and the tractor are staying on the ground. Yet, the unit needs to offer enough flotation to prevent compaction.

The Challenger MT900C Series offers the best of both worlds. We started with the widest, heaviest frame in the industry to serve as the foundation for performance. The front portion features Challenger's proven bathtub style frame to support the engine and transmission, while the rear section is comprised of a rugged, fabricated steel assembly. Then, we added the largest diameter driveline in the industry to ensure that the weight and horsepower are delivered to the ground.

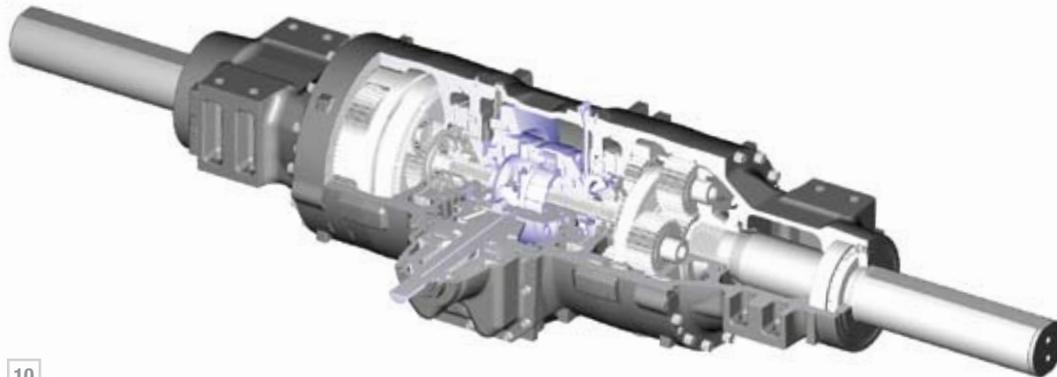
- Tri-point oscillation provides 13 degrees of movement for even distribution of forces through the frame, less component stress and greater reliability.
- Axles are pressure lubed from the transmission sump to reduce friction and power loss while ensuring constant wear protection.
- Disc brakes on each axle provide impressive stopping power to restrain heavy loads.

- Heavy-duty, dual-sealed bearings, surround both ends of the largest articulation pin in the industry for extreme reliability and performance and minimal wear.
- Extra-large axle housings provide the structural support to withstand heavy loads and rough terrain.
- The largest standard axles in the industry — at 145 mm (5.7 in.) provide maximum durability and strength.
- An electro-hydraulic differential lock on each axle means that maximum power is available when it is needed most.

## Rugged Final Drives

At first glance, it might appear that MT900C Series models are simply Challenger track tractors on wheels. However, that's far from being the case.

From the rugged MT900C Series' Cat-built transmission, speed and horsepower are efficiently routed to the front and rear differentials for maximum performance and minimal loss of horsepower. At that point, precision-ground gear sets ensure quiet and reliable power transfer to the axles, where dual inboard planetary final drives reduce power loss and provide added strength.



## Industry-Leading Tire Options

Take your choice of single, dual or triple tire configurations on all models to match your individual application and farming program. Choices include Michelin's Agribib tires in triple configurations; low-pressure MachXBib tires in dual configurations, and the industry's first North American application of Michelin's Axiobib tire with Ultraflex Technology. By reinforcing the tire sidewall and allowing up to 20% greater flex than a standard radial tire, the Axiobib tire provides a significantly larger footprint, which gives maximum traction and flotation.



A 42-degree turn angle provides the shortest articulated turning radius in the industry allowing for tight maneuvers on headlands and corner.

## Flexible Ballasting Options

Optimal weight balance translates into greater productivity and efficiency...not to mention the ability to put up to 60,000 pounds (27,215 kg) of power to the ground. The flexible ballasting options on the MT900C Series include a full rack of suitcase weights on the front, as well as wheel weights that allow you to put the ideal amount of weight on each axle to maximize performance.

# HEAVY-DUTY



We're up to  
**The Challenge** 11



# A Higher Standard In Hydraulic Power

## Redesigned Hydraulic System

Challenger® MT800C and MT900C Series tractors are as big on hydraulic power as they are on raw horsepower, meeting not only today's demanding standards, but those expected in the future.

Equipped with a redesigned closed-center, load-sensing, pressure-flow compensating system, MT800C and MT900C models offer an industry-leading 43.5 gal./min. (164.7 lpm) pump as a standard feature. For truly demanding applications, like scrapers and large planters, Challenger offers a 59 gal./min. (223.3 lpm) pump option that doesn't make you choose between pulling power and hydraulic flow. A new common midstack design also centralizes control valves for all tractor functions simplifying the entire hydraulic system.



A new valve body design offers four electric over hydraulic circuits, standard on all models with a fifth or sixth valve available as an option for more demanding applications.

## Fine-Tune Flow And Pressure Adjustment

The new TMC display is used to control all remote implement valves allowing the operator to electronically adjust flow rates; adjust timed detents, and precisely adjust individual valve operation. The redesigned system, which utilizes a separate controller built into each valve, even allows the operator to direct continuous flow up to 36 gallons/min. (136.3 lpm) through any one coupler. This is particularly important in applications like seeding, where uninterrupted oil flow to a hydraulically driven vacuum system is critical.

### The Challenger Difference

The new, simpler design, paired with ISOBUS technology, allows for more precise hydraulic control and easier diagnostics. Add industry-leading flow rates and you have a system that will handle any application it encounters.

## Load Independent Flow Division

Exclusive to Challenger, Load Independent Flow Division (LIFD) is an indispensable feature when using hydraulic-powered equipment. Instead of diverting hydraulic flow from one job to another, LIFD ensures proportional oil flow to all desired circuits when the system is operating at full capacity.

The exception is when one valve has been given priority and designated to receive full flow up to 36 gpm (136.3 lpm). In that case, all other valves divide the remaining flow evenly, which means you get the best of both worlds.

# Hitch Options to Match Every Need

When you hitch up to an MT800C or MT900C Series model, you can rest assured that the balance and load-carrying requirements of the drawbar and 3-point hitch options were carefully examined and integrated into the unit from the very beginning of the design process.

## Standard Drawbar Hitch

Thicker and wider than the average hitch, the standard drawbar on the MT800C Series can swing 32 degrees from the tractor centerline when unpinned. Rubber bumpers and wear plates are standard to cushion shock loads and ensure long life. The drawbar on the MT900C Series extends nearly to the center of the wheelbase for more efficient transfer of usable drawbar horsepower.



## Steerable 3-Point Hitch (MT800C Series)

Exclusive to the Challenger track tractors, the steerable 3-point hitch offers numerous customer benefits. In float mode it can help dampen the side-to-side movement, while in manual mode it can be locked into one fixed position. Benefits include improved steering when turning under load and improved performance when following field contours with 3-point mounted implements.

## Conventional 3-Point Hitch (MT900C Series)

All MT900C Series models offer the option of a Category 3/4N or Cat. 4 3-point hitch with a lift capacity of 19,500 pounds (8,845 kg) to handle even the largest mounted implements. With draft and slip sensors, the 3-point hitch automatically adjusts to changing field conditions to keep you running even in the toughest situations.

## Controlled-Swing Drawbar (MT800C Series)

The optional controlled drawbar puts the operator...rather than gravity...in control of hitch position. Use the manual mode to find the ideal position on sidehills, or trim the draft of offset implements. A "float" position allows the operator to select the appropriate percentage of damping force for the draft load.

## Optional PTO

A 1,000 rpm PTO is optional on all MT800C and MT900C Series models. In addition to a 20-spline, 1 3/4" shaft, it features electronic control through a wet multi-disc clutch and hydraulic actuation for smooth modulation and system protection.



# Welcome to Your New Office

Designed by ergonomic experts, with the help of farmers like you, the MT800C/MT900C cab offers more comfort, convenience and control than ever imagined.

Like the tractor itself, it boasts an impressive size, thanks to 108 cubic feet (3.06 m<sup>3</sup>) of space — more cubic feet of luxury than most all others in its power class. Even more valuable than the size and comfort, though, is the new ISOBUS electronic control system, which uses the Tractor Management Center (TMC) display as the operator interface. The result is greater simplicity, more information and unprecedented peace-of-mind.

## Spend The Day In Relaxed Comfort

Enjoy a smooth ride in the air-suspension seat that adapts to virtually any size operator. Standard adjustments include height and suspension; fore and aft seat position; lumbar support, and back tilt position.

For the ultimate in operator comfort, upgrade to the optional deluxe VRS heated operator seat that's backed by innovative computer technology. Also available in a leather option, it uses a specially tuned damping system that provides continuous real-time automatic damping force in any one of three positions, based on terrain inputs.

## Comfortable In Any Weather

The Surround-Flow™ ventilation system features new vent locations to keep you comfortable in any weather. The vents even direct air onto each window for quick defrosting or to create a cool air barrier in the heat of the day.

### The Challenger Difference

Redesigned ergonomic controls and greater comfort help the operator stay focused and alert for greater productivity during long days in the field.

## Office Amenities Throughout

An aristocratic ride is just the beginning of the comfort features you'll find in the MT800C/MT900C Series' spacious cab. Take a seat and look around at some of the other amenities:

- Ergonomically designed right-hand Tractor Management Center (TMC) with controls organized by function.
- A new dash with digital displays for all major tractor and engine functions, including the selected gear, engine RPM and machine hours.
- Tilt and telescopic steering column.
- A large temperature-controlled storage compartment keeps your lunch cool or warm.
- Additional storage that includes a coat hook, a literature storage area and a compartment beneath the instructional seat.
- A wide assortment of management, comfort and convenience features, including a cell phone holder and outlet; a set of four radio speakers, front sun visor, and a power pack of additional electrical outlets.

## Don't Worry About The Nightshift



As a farmer, you know that the work doesn't always stop when daylight ends. That's why the MT800C/MT900C Series features a new standard lighting package that offers up to 30% more light coverage than previous models.

For even better nighttime illumination, select the optional Nightbreaker™ HID lighting package, which pushes visibility out to a quarter mile, depending on weather conditions. The closer-to-sunlight white light produced by HID's improves depth perception and increases efficiency during low-light conditions by replacing four of the eight halogen lights on the standard lighting package (two on the front and two on the rear) with HID Xenon lights.

For increased visibility on the road, up to two rotating beacons are also available as an option.

## A Panoramic View



In addition to 67.5 square feet (6.2 m<sup>2</sup>) of usable glass area, Challenger® MT800C/MT900C Series tractors feature a short, sloping hood that provides an unobstructed, panoramic view of the field.

The rear ROPS cab posts are also placed in-line with your shoulders for an unobstructed view of wide, trailed implements. Meanwhile, large side mirrors and a wide-angle inside mirror let you keep an eye on equipment without the need to twist around. Electronically remote-controlled heated mirrors are optional for a clear view in all weather conditions.



# COMFORT

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## Top Manager In Its Field

Challenger's unique Tractor Management Center (TMC) does everything the name implies, plus a lot more, thanks to the new ISOBUS network. As the international standard for electronic communications used in agriculture, ISOBUS allows any compliant tractor to "talk" to any compliant implement, no matter the manufacturer. It also allows the tractor components to communicate information much quicker, with fewer wires and connections. The benefits are countless...but among those you'll appreciate most are unsurpassed control; fewer circuits and fuses; faster, easier diagnostics; easier mapping and data management, and greater peace-of-mind.

### Your Window To The World



Comprised of a color screen, 12 soft keys and a rotary dial the ISOBUS compliant TMC display allows the operator to monitor all tractor, engine, and transmission functions; check and adjust hydraulic flow settings; keep track of service intervals; operate the AUTO-GUIDE<sup>2</sup> system, and collect valuable data that can later

be used to create detailed work plans and records...all from one single location. And that doesn't include the control it provides of ISOBUS compliant implements.

Monitor and control an ISOBUS compliant implement without the need for additional consoles, wiring harnesses or control boxes in the cab. Simply plug and play for seamless operation.

### One-Touch™ Headland Management

The intuitive One-Touch™ headland management system gives you the power to initiate several tractor and implement functions at the same time at the touch of a button on the transmission control lever. Easy to operate, the One-Touch™ system uses the new TMC display to record and execute a myriad of repeated functions, such as transmission shifting, accelerating or decelerating the engine, raising and lowering the 3-point hitch, engaging and disengaging the PTO, and raising and lowering an implement. Thanks to the new ISOBUS technology, One-Touch™ also allows you to adjust or add a function without having to re-record the entire sequence, saving both time and frustration.

### The Challenger Difference

The MT800C & MT900C Series tractors are on the cutting edge of ISOBUS technology. As more and more implements become ISOBUS compliant, you will see the immediate benefits in simplicity and productivity with no need for additional consoles. This will bring a new level of precision and productivity to your operation while providing greater peace of mind.

TMC display

3-point hitch raise/work switch

Power management switch

# COMMERCE



Up to six in-line hydraulic levers

3-point hitch depth control lever

Differential Lock Switch  
(Optional on the MT900C Only)

Auto-Guide activation switch

PTO switch

A/B engine speed switch

Roading lock-out switch

Gear selection buttons

Throttle lever

One-Touch™ button

Transmission control lever

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# ACCURACY

# AUTO-GUIDE<sup>2</sup><sub>TM</sub>

## Offers Serious Navigation

The optional AUTO-GUIDE<sup>2</sup> satellite navigation system brings a new level of control and productivity to agriculture that wasn't even imagined 50 years ago. Using cutting-edge GPS-based technology, AUTO-GUIDE<sup>2</sup> steers the tractor, without operator input, along parallel swaths through the field at higher rates of speed and accuracy...pass after pass, providing you with numerous cost and timesaving benefits.

- Reduced overlap helps save chemicals and seed for lower input costs.
- Hands-free steering reduces fatigue and improves operator comfort.
- Increased field operating speed helps you cover more acres per hour (up to 53% improvement in one California trial).
- Improves efficiency and fuel economy by maximizing the full width of the implement (up to 32% in field trials).



### Unmatched Flexibility

The flexibility to perform precision applications like bedding, planting, spraying and tillage are already built into the AUTO-GUIDE<sup>2</sup> satellite navigation system. All you have to do is decide on the system that best matches your needs and accuracy level goals. Most importantly, as needs change, it's simple to upgrade your system and DGPS signal source to increase accuracy levels.

- Sub-Meter System -- +/- 39" static accuracy for decreasing overlap and skips.
- Decimeter System -- +/- 4" static accuracy to eliminate guess rows and to achieve a new level of accuracy in applications like ridge tilling, zero tillage, controlled traffic patterns and for increasing the accuracy of spraying and spreading operations.
- Centimeter System -- +/- 0.8" static accuracy for operations that require repeatability or a high degree of accuracy, such as cultivation, band spraying, zone tillage and laying sub-surface drip tape.

**The Challenger Difference**

The result of a strategic partnership between AGCO and Topcon Positioning Systems (TPS), AUTO-GUIDE<sup>2</sup> is designed to fit tomorrow's precision farming, machine control and machine management technology.



All functions of the AUTO-GUIDE<sup>2</sup> system are managed through the new TMC display. Naturally, AUTO-GUIDE<sup>2</sup> is disengaged as soon as you manually turn the wheel, whether it's at the end row or the middle of the field.

Unlike other guidance systems on the market, AUTO-GUIDE<sup>2</sup> has the unique ability to utilize European and Soviet satellites, in addition to U.S. GPS satellites, for greater no-fee coverage and fewer "blackouts."



# Designed To Keep You Rolling

Challenger® MT800C and MT900C Series tractors were designed not just for performance, but for fast, easy service. That means less time out of your hectic schedule to perform general maintenance and more time working in the field. With five easy-to-access daily service points, maintenance inspections become more of a daily routine than a time-consuming chore.

- The tilt-up hood raises from the front, providing excellent access to key service points like batteries and cooling cores. A battery disconnect, which cuts electrical power to the tractor is now standard.
- Checking and topping off engine oil is easily accomplished from ground level on the left side of the tractor.
- The dual-element air cleaner is conveniently positioned directly above the engine for easy inspection and replacement.
- No tools are required to swing open the cooling cores to remove trash build-up or blockage.
- The cab air filter, conveniently located under the cab roof overhang is easily removed without tools for cleaning or replacement.
- A large toolbox, integrated into the steps, carries tools up to 24 inches (610 mm) long with a total capacity of 150 pounds (68 kg).
- The single-point fuel fill is easily accessible for quick refueling in the yard or in the field.
- An optional air compressor, with 116 PSI (800 kPa) powers pneumatic tools, cleans out sprayer nozzles and inflates tires, making quick repairs in the field even easier.
- Hydraulic and powertrain oil sight gauges at the rear of the tractor let you check the level at a glance.

## Diagnostics Is A Breeze



Downtime never comes at a convenient time! Fortunately, it doesn't take long to locate a problem, thanks to our new ISOBUS technology. Since every component on the tractor communicates in the same language, a service technician need only plug in a portable, hand-held unit that performs diagnostics and displays results in a matter of seconds.

The ISOBUS system performs equally well for the operator as it tracks and displays service intervals, abnormal tractor conditions and data that can be downloaded for use in accounting and management decisions.

### The Challenger Difference

Thanks to ISOBUS technology, new simpler wiring designs mean greater reliability, less downtime, and easier diagnostics and repairs when something does go wrong.

# The Challenger

## Commitment

### World-Renowned Dealers World-Class Service

When you purchase a Challenger® MT800C, MT900C, or any other Challenger model, you're buying a lot more than a piece of farm machinery. You're purchasing the Challenger® commitment to quality and service.

When you're racing against time to get fields prepared, crops in the ground or fall tillage completed before snowfall, you need a dealer you can rely on. Fortunately, every Challenger® purchase includes the backing and support of the legendary network of Cat® dealers... who take downtime seriously. For nearly 100 years, Cat® dealers have been keeping construction, mining, roadwork and just about every type of heavy-machine equipment in the world up and running...365 days a year, day and night, under the most adverse conditions. With more mobile service trucks loaded with more diagnostic equipment than most repair shops, Cat® dealers are second to none in on-location service. Plus, their factory trained technicians work as hard at preventing problems as they do at repairing them.

### Maximum Warranty Coverage

As a Challenger® tractor owner, you are assured of full warranty protection for two years or 2,000 hours, whichever comes first. An Extended Service Plan is also available, assuring you of continued support from your Challenger dealer.

### Long-Term Challenger Support

Besides bringing new thinking to farm equipment, Challenger® 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.

### ProTech ESC Options

Thanks to three new ProTech ESC (extended service contract) options, you can predict hourly operating costs right down to the nickel. Choose from the basic Essential plan, the Enhanced version or the Elite ESC program, which covers all service work beyond the warranty, as well as technician travel time, mileage and scheduled preventive maintenance.



WORLD-CLASS

We're up to  
The Challenge 21

# SPECIFICATIONS

## MT800C Specifications

	MT835C	MT845C	MT855C	MT865C	MT875C
<b>ENGINE</b>	Caterpillar® C15 ACERT™ Tier III	Caterpillar® C15 ACERT™ Tier III	Caterpillar® C15 ACERT™ Tier III	Caterpillar® C18 ACERT™ Tier III	Caterpillar® C18 ACERT™ Tier III
Rated Engine Power - HP (kW)	410 (306)	410 (306)	475 (354)	525 (391)	585 (436)
PTO Power @ rated 2100 RPM - HP (kW)	335 (249)	360 (268)	385 (287)	425 (316)	425 (316)
Engine Power Growth @ 1800 RPM	8%	8%	8%	8%	8%
Peak Engine Power - HP (kW)	442 (329)	475 (354)	513 (382)	567 (422)	631 (470)
Engine Torque Rise @ rpm	42%@1400	42%@1400	42%@1400	42%@1400	42%@1400
# Cylinders / # Valves	6 / 24	6 / 24	6 / 24	6 / 24	6 / 24
Displacement - cubic in. (L)	928 (15.2 L)	928 (15.2 L)	928 (15.2 L)	1,105 (18.1 L)	1,105 (18.1 L)
Aspiration	Turbocharged / Air-to-Air Aftercooled				
<b>FUEL SYSTEM</b>	MEUI - ADEM 4 Full Electronic Control				
Fuel Tank Capacity - US gal. (L)	305 (1,155)	305 (1,155)	305 (1,155)	330 (1,249)	330 (1,249)
<b>TRANSMISSION</b>	Caterpillar® Powershift 16F / 4R				
Maximum Speed - mph (kph)	24.6 (39.6)	24.6 (39.6)	24.6 (39.6)	24.6 (39.6)	24.6 (39.6)
Steering	Caterpillar® Differential Steering	Caterpillar® Differential Steering	Caterpillar® Differential Steering	Caterpillar® Differential Steering	Caterpillar® Differential Steering
<b>GAUGE OPTIONS</b>	Infinitely adjustable bar axle with smooth hardbar				
Standard - in. (mm)	90 - 128 (2,286 - 3,251)	90 - 128 (2,286 - 3,251)	90 - 128 (2,286 - 3,251)	90 - 128 (2,286 - 3,251)	90 - 128 (2,286 - 3,251)
<b>BELT OPTIONS</b>					
General Ag Belts - in. (mm)	30, 36 (762, 914)	30, 36 (762, 914)	30, 36 (762, 914)	30, 36 (762, 914)	30, 36 (762, 914)
Extreme Application Belts - in. (mm)	18, 30, 36 (457, 762, 914)	18, 30, 36 (457, 762, 914)	18, 30, 36 (457, 762, 914)	18, 30, 36 (457, 762, 914)	18, 30, 36 (457, 762, 914)
<b>MOBIL-TRAC UNDERCARRIAGE</b>					
Hardbar Suspension	Two Marsh Mellow® Springs				
Undercarriage Suspension	Suspended Midwheels				
Hardbar Oscillation	Stabilizer Bar with 8° Range of Motion				
<b>INDEPENDENT PTO</b> (Optional)	1000 RPM, 20 Spline, 1.75" (45 mm) Electronically Controlled	1000 RPM, 20 Spline, 1.75" (45 mm) Electronically Controlled	1000 RPM, 20 Spline, 1.75" (45 mm) Electronically Controlled	1000 RPM, 20 Spline, 1.75" (45 mm) Electronically Controlled	1000 RPM, 20 Spline, 1.75" (45 mm) Electronically Controlled
<b>ELECTRICAL SYSTEM</b>					
Alternator	185 amp				
Batteries	(4) 1,000 cca 12 V				
<b>HYDRAULIC SYSTEM</b>					
Type of System	Load Independent Flow Division (Closed-Center, Pressure-Flow Compensated)				
Std. Pump Flow - gpm (L/min)	43.5 (164.7)	43.5 (164.7)	43.5 (164.7)	43.5 (164.7)	43.5 (164.7)
Opt. Pump Flow - gpm (L/min)	59 (224.2)	59 (224.2)	59 (224.2)	59 (224.2)	59 (224.2)
Hydraulic Remotes	4 Standard / up to 6 Optional				
Max Flow at 1 Remote - gpm (L/min)	36 (136.3)	36 (136.3)	36 (136.3)	36 (136.3)	36 (136.3)
Maximum System Pressure - psi (bar)	2,900 (200)	2,900 (200)	2,900 (200)	2,900 (200)	2,900 (200)
<b>CAT 4 DRAWBAR / 3-POINT HITCH</b>					
Std. Wide Swing Drawbar	Roller Type +/- 32° Swing				
Opt. Wide Swing Controlled Drawbar	Hydraulic Position Control / Dampening				
Drawbar Load Rating - lbs. (kg)	10,000 (4,536)	10,000 (4,536)	10,000 (4,536)	10,000 (4,536)	10,000 (4,536)
Opt. 3-PT Hitch with Drawbar - lbs. (kg)	Category 3/4N 19,500 (8,845)	N/A			
Opt. 3-PT Hitch with Drawbar - lbs. (kg)	Category 4 19,500 (8,845)	N/A			
<b>DIMENSIONS</b>					
Wheelbase - in. (mm)	118 (2,997)	118 (2,997)	118 (2,997)	118 (2,997)	118 (2,997)
Overall Width Wide Gauge - in. (mm)	141.8 (3,601)	141.8 (3,601)	141.8 (3,601)	141.8 (3,601)	141.8 (3,601)
Overall Length - in. (mm)	270 (6,863)	270 (6,863)	270 (6,863)	270 (6,863)	270 (6,863)
Overall Height to Top of Cab - in. (mm)	138.1 (3,509)	138.1 (3,509)	138.1 (3,509)	138.1 (3,509)	138.1 (3,509)
Drawbar Clearance - in. (mm)	14.4 (366)	14.4 (366)	14.4 (366)	14.4 (366)	14.4 (366)
Approx. Shipping Weight - lbs. (kg)	41,000 (18,597)	41,000 (18,597)	41,000 (18,597)	42,200 (19,142)	42,200 (19,142)
Maximum Operating Weight - lbs. (kg)	50,000 (22,680)	50,000 (22,680)	50,000 (22,680)	50,000 (22,680)	50,000 (22,680)

# MT900C Specifications

	MT945C	MT955C	MT965C	MT975C
<b>ENGINE</b>	Caterpillar® C15 ACERT™ Tier III	Caterpillar® C15 ACERT™ Tier III	Caterpillar® C18 ACERT™ Tier III	Caterpillar® C18 ACERT™ Tier III
Rated Engine Power - HP (kW)	440 (328)	475 (354)	525 (391)	585 (436)
PTO Power @ rated 2100 RPM - HP (kW)	360 (268)	385 (287)	425 (316)	425 (316)
Engine Power Growth @ 1800 RPM	8%	8%	8%	8%
Peak Engine Power - HP (kW)	475 (354)	513 (382)	567 (422)	631 (470)
Engine Torque Rise @ rpm	42%@1400	42%@1400	42%@1400	42%@1400
# Cylinders / # Valves	6 / 24	6 / 24	6 / 24	6 / 24
Displacement - cubic in. (L)	928 (15.2 L)	928 (15.2 L)	1,105 (18.1 L)	1,105 (18.1 L)
Aspiration	Turbocharged / Air-to-Air Aftercooled			
<b>FUEL SYSTEM</b>	MEUI - ADEM 4 Full Electronic Control			
Fuel Tank Capacity - US gal. (L)	390 (1,476)	390 (1,476)	390 (1,476)	390 (1,476)
<b>TRANSMISSION</b>	Caterpillar® Powershift 16F / 4R			
Maximum Speed - mph (kph)	24.6 (39.6)	24.6 (39.6)	24.6 (39.6)	24.6 (39.6)
<b>INDEPENDENT PTO</b> (Optional)	1000 RPM 20-spline 1.75" (45 mm) Electronic Control			
<b>ELECTRICAL SYSTEM</b>				
Alternator	185 amp	185 amp	185 amp	185 amp
Batteries	(4) 1,000 cca 12 V			
<b>HYDRAULIC SYSTEM</b>				
Type of System	Load Independent Flow Division (Closed-Center, Pressure-Flow Compensated)			
Standard Pump Flow - gpm (L/min)	43.5 (164.7)	43.5 (164.7)	43.5 (164.7)	43.5 (164.7)
Optional Pump Flow - gpm (L/min)	59 (224.2)	59 (224.2)	59 (224.2)	59 (224.2)
Hydraulic Remotes	4 Standard / up to 6 Optional			
Max Flow at 1 Remote - gpm (L/min)	36 (136.3)	36 (136.3)	36 (136.3)	36 (136.3)
Maximum System Pressure - psi (bar)	2,900 (200)	2,900 (200)	2,900 (200)	2,900 (200)
<b>STEERING</b>	Hydraulic Articulation	Hydraulic Articulation	Hydraulic Articulation	Hydraulic Articulation
Optional System	Electro-hydraulic Enhancement	Electro-hydraulic Enhancement	Electro-hydraulic Enhancement	Electro-hydraulic Enhancement
Turning Angle	42°	42°	42°	42°
Oscillation Angle	13°	13°	13°	13°
Centerline Turning Radius - ft. (m)	16.5 (5.0)	16.5 (5.0)	16.5 (5.0)	16.5 (5.0)
<b>AXLES &amp; FINAL DRIVE</b>				
Manufacturer	GIMA	GIMA	GIMA	GIMA
Drive Line Torque Rating: ft-lbs (N*m)	9C: 13,720 (18,600)	9C: 13,720 (18,600)	9C: 13,720 (18,600)	9C: 13,720 (18,600)
Final Drive	Double Inboard Planetary	Double Inboard Planetary	Double Inboard Planetary	Double Inboard Planetary
Bar Diameter - in. (mm)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)
Standard Tires	710 / 70R42 Duals			
Service Brakes (Front & Rear Axle)	Wet Disk Spring Released			
Differential Lock (Optional) - (Front & Rear Axle)	Electro-hydraulic Wet Disc	Electro-hydraulic Wet Disc	Electro-hydraulic Wet Disc	Electro-hydraulic Wet Disc
<b>CAT 4 DRAWBAR / 3-POINT HITCH</b>				
Vertical Load Rating - lbs. (kg)	10,000 (4,535)	10,000 (4,535)	10,000 (4,535)	10,000 (4,535)
Hitch pin diameter - in. (mm)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)
3-Point Hitch (Optional)	Cat 3/4N or 4	Cat 3/4N or 4	Cat 3/4N or 4	N/A
3-Point Hitch Lift Capacity - lbs. (kg)	19,500 (8,845)	19,500 (8,845)	19,500 (8,845)	N/A
<b>DIMENSIONS</b>				
Wheelbase - in. (mm)	155.5 (3949.7)	155.5 (3949.7)	155.5 (3949.7)	155.5 (3949.7)
Overall Width w/ Standard Tires - in. (mm)	192 (4,871)	192 (4,871)	200 (5,077)	200 (5,077)
Overall Length - in. (mm)	298 (7569.2)	298 (7569.2)	298 (7569.2)	298 (7569.2)
Overall Height to Top of Cab - in. (mm)	151 (3835.4)	151 (3835.4)	151 (3835.4)	151 (3835.4)
Approx. Shipping Weight - lbs. (kg)	39,266 (17,810)	39,266 (17,810)	39,767 (18,038)	39,767 (18,038)
Maximum Operating Weight - lbs. (kg)	50,000 (22,680)	54,000 (24,494)	60,000 (27,215)	60,000 (27,215)



## 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.newfromchallenger.com](http://www.newfromchallenger.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.