

Challenger MT700C

# Challenger<sup>®</sup> MT700C



We're up to  
**The Challenge**

**MT700C SERIES**

245 to 265 PTO HP



# Strong Legacy...

## Strong Future

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 MT700C Series track tractors. The all new MT700C Series 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 console that provides simpler, more intuitive operation.
- New hydraulics 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.
- 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.



Model	Gross Engine HP	PTO HP
MT755C	301 (224 kW)	245 (183 kW)
MT765C	320 (239 kW)	265 (198 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.

TRADITION



We're up to  
The Challenge

# RAW POWER

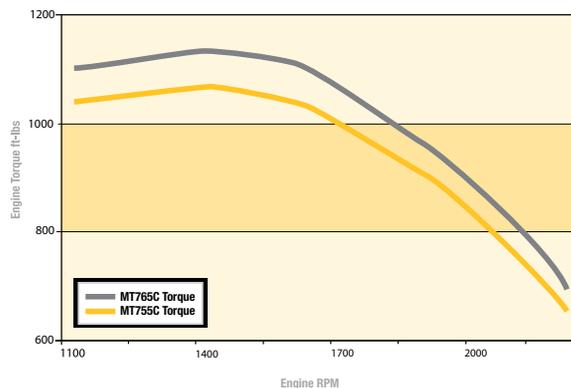


# CAT<sup>®</sup> POWERED Performance

For more than 20 years, Challenger track tractors have all had one thing in common . . . rugged, reliable Cat<sup>®</sup> power. Featuring ACERT<sup>®</sup> technology, the Caterpillar<sup>®</sup> C9 engine used in the MT700C Series meets all mandated Tier III engine emissions requirement without sacrificing performance, durability or reliability. It's also the same engine that has proven reliability in thousands of on- and off-highway Caterpillar machines over the past few years.

The principle behind ACERT<sup>®</sup> technology is actually quite simple. By offering better control of the combustion process, emissions are minimized and performance improved without the need for extra filters or exhaust gas recirculation (EGR) technology.

With 537 cubic inches (8.8 L) of displacement and 52% PTO torque rise, the Cat<sup>®</sup> C9 ACERT engine delivers exceptional pulling power in all conditions. Engine power growth up to 8% will have you downshifting a lot less frequently, too.



Unmatched torque rise gives the MT700C Series tractors more available power than any tractor in its class. With 52% PTO torque rise, 42% engine torque rise, and 8% engine power growth, the MT700C series tractor can handle any application from seeding and tillage to pulling a grain cart.

## Advanced Engine Control

The ADEM<sup>™</sup> 4 electronics 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 Hydraulic Electric Unit Injector (HEUI) 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

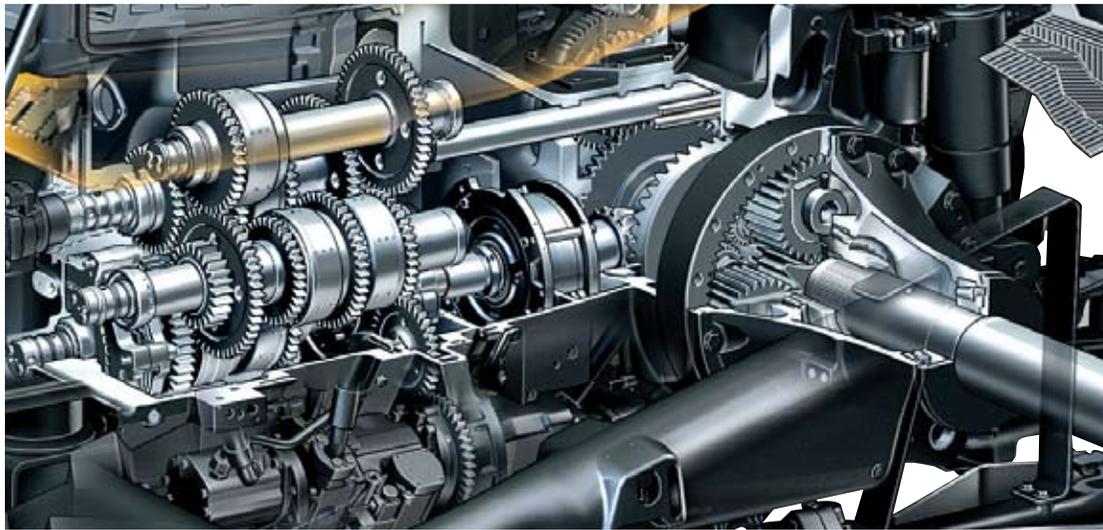
New to the "C" Series is an engine speed switch that allows the operator to select two memory settings for consistent engine speed during field operations and/or headland turns.



## The Challenger Difference

The real test of an engine is in its ability to maintain power while lugging through tough spots and encountering heavy PTO loads. With peak torque reached at 1,400 RPM, MT700C Series models have the built-in reserve that today's farmers demand.

# Shift to Greater Productivity



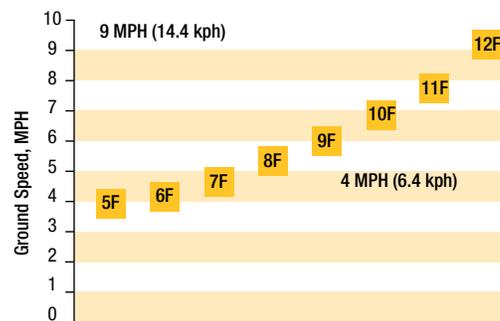
It takes a special transmission for a track tractor. The Cat-built 16F X 4R electronically controlled powershift used in the MT700C Series was extensively tested in tough, real-world situations like yours before it was ever released to production. Since then, it's been proven reliable in hundreds of 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 MT700C 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.



## The Challenger Difference

Cat reliability, matched with new ISOBUS electronic controls provide the smoothest shifting, most reliable transmission in the industry.

## 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, to change gear settings. 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.

## 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 TMC 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 are 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

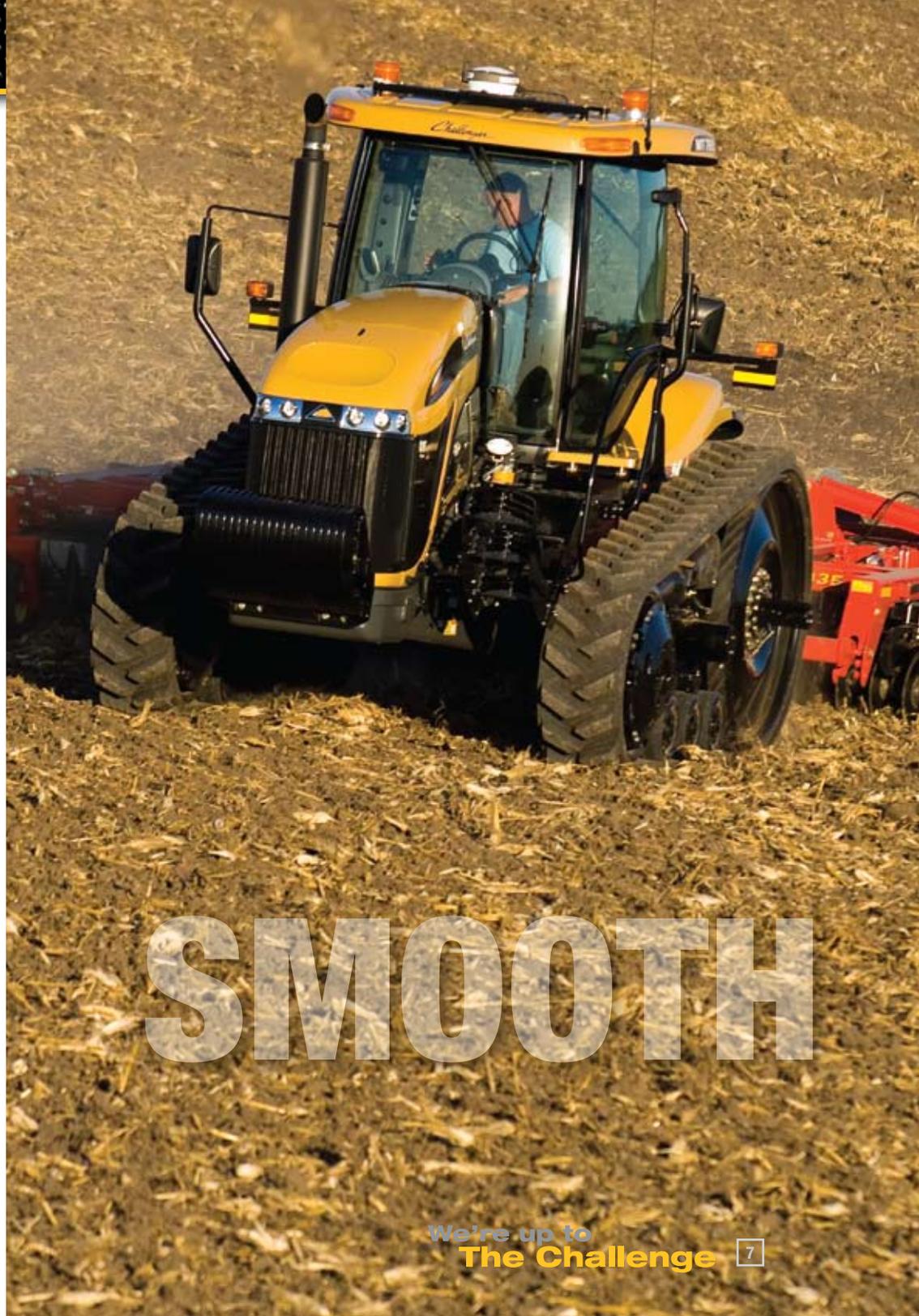
Medium and light applications are effortless using the Constant Ground Speed mode. Like the cruise control on your automobile, it achieves a preset ground speed by varying the engine speed and transmission gear. However, Constant Ground Speed will also make automatic downshifts under high load conditions 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.



Featuring the highest transport speed of any track tractor, Challenger MT700C Series tractors travel up to 24.6 mph (39.6 kph) for quicker moves between fields and more productivity per day.

## Speed-Sensitive Steering

The MT700C Series features 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.



# SMOOTH

# PRODUCTIVITY



# The Industry Leader In Track Technology

- A** Advanced Marsh Mellow springs, constructed of rubber and fabric, minimize shocks to the operator by isolating the hardbar from the chassis of the tractor.
- B** The robust stabilizer bar enables the left and the right undercarriages to pivot up and down independently, allowing the hardbar to tilt to an 8-degree angle and smoothly walk over obstacles in the field.

- C** The large diameter driver allows for more belt contact, which translates into more power to the ground, longer belt life and lower rolling resistance.
- D** The in-line reaction arms, which are isolated from the tractor drive axles and frame, absorb shock loads minimizing the transfer of stresses and vibrations to the operator.



- E** Challenger's unique Mobil-trac system has no grease zerks and requires no daily or routine maintenance or adjustment.
- F** Mounting holes for chemical tanks and other attachments are built-in to ensure maximum versatility and tractor balance.

- G** Suspended midwheels contribute to a smooth ride by molding the track to the surface of the ground for constant traction over uneven terrain.
- H** New, optional polyurethane midwheels provide longer life in abrasive environments and in operations with above average transport requirements.

If you think all track systems are pretty much the same, think again. There's a reason Challenger's Mobil-trac™ system is the most comfortable and most productive system in the world. At 96 inches (2,438 mm), Challenger's Mobil-trac™ system wheelbase is the longest in its power class. That means tractor weight is distributed over a greater area, reducing the deep compaction that restricts plant root growth.

The long footprint and low rolling resistance also transfers more power to the ground for greater pulling ability. All the while, you're assured of the speed and mobility benefits that owners have come to expect from Challenger track tractors.

## The Softest Ride In the Industry

Superior traction is just one of the benefits of the Challenger Mobil-trac system. One ride in the MT700C and you'll discover that unsurpassed comfort is another.

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 and five-axle design, which literally molds the track to every ridge, bump and rut the tractor encounters, the operator experiences a softer ride.

### 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.

# Undercarriage Options For Every Application

Nobody offers more undercarriage options than Challenger®... period. Pick the appropriate gauge option, then select the belt width and treadbar type to match your operation and applications. Belts are available in five widths and two types, while idler, midwheels and driver are available in up to three widths to improve belt life and belt-to-driver performance.

## General Ag Belt

This all-purpose belt provides an excellent ride with superior belt alignment and traction in a wide-range of field conditions. Available in four widths, the general ag belt is equipped with 46, 4.5-inch (115 mm) long guide blocks and 92, 2.7-inch (68.5 mm) tall treadbars; 46 treadbars on narrow, diagonal tread belts.



## Extreme Application Belt

This tough belt is an excellent choice for applications that involve a large amount of road travel, steep side slopes or abrasive underfoot conditions. The five widths of extreme application belts are 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 narrow 14-inch (356 mm) and 16-inch (406 mm) belts also use a diagonal treadbar pattern to further extend belt life and self-cleaning capability. Wider belts use the chevron treadbar pattern.



14" 16" 18" 25" 30"

	14"	16"	18"	25"	30"
General Ag Belt		X	X	X	X
Extreme Service Belt	X	X	X	X	X

Rubber compounds specially formulated for treadbar, belt carcass and guide blocks are used in the belt manufacturing process. A patented arrangement of four or more layers of steel cable provides precise tracking and durability for longer belt life.

## Standard, Wide Or Ultra Wide

Challenger MT700C Series tractors offer producers the flexibility to match virtually any cropping situation — whether it's narrow-row cultivation or dryland wheat farming — with gauge width as wide as 160 inches (4,064 mm).

For even more versatility, gauge settings are infinitely adjustable —without detensioning the belts — within each of the three gauge options, which means you don't have to settle for 2- to 4-inch increments. Cab steps can also be adjusted from 60 to 80 inches (1,524 – 2,032 mm) to match the gauge and crop row width.

- Standard gauge ranges from 60 to 88 inches (1,524 - 2,235 mm).
- Wide gauge varies from 80 to 120 inches (2,032 - 3,048 mm).
- Ultra-wide gauge ranges from 120 to 160 inches (3,048 - 4,064 mm).

## 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. Options include a full rack of front suitcase weights, as well as idler wheel weights, which, when combined, take an MT700C model up to an industry leading 36,000 pounds (16,329 kg), for maximum traction.



STANDARD (60 to 88 in.)



WIDE (80 to 120 in.)



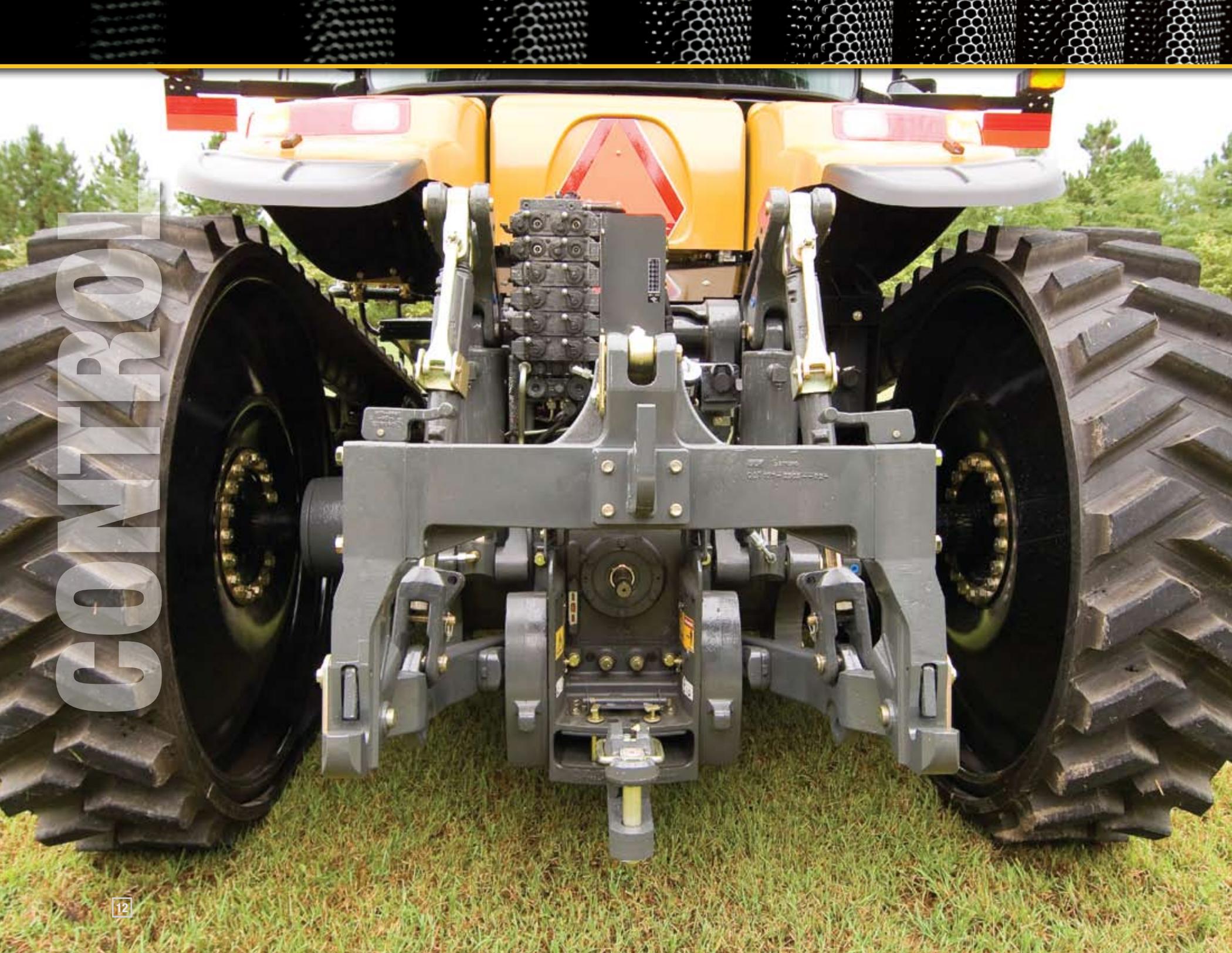
ULTRA WIDE (120 to 160 in.)

Move the ultra wide gauge to 160 inches to straddle four 40-inch rows of potatoes. No other track tractor can go beyond four 30-inch rows. Or simply spread any gauge option to a wider setting for easier turns under load and improved stability.

# FLEXIBILITY



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



CONTROL

# A Higher Standard In Hydraulic Power

## Redesigned Hydraulic System

Challenger® MT700C 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, MT700C Series 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 both models with a fifth or sixth valve available as options 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.

## 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 is 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 Up To Maximum Productivity

When you hitch up an MT700C Series model, you can rest comfortably, knowing that the balance and load-carrying requirements of the drawbar and 3-point hitch were carefully examined and integrated into the tractor design process from the start. You won't find any "add on" here.

## Exceptional Lift Capacity

A lift capacity in excess of 16,000 pounds (7,260 kg) on the anything-but-standard 3-point hitch is the greatest in its class. A heavy-duty quick coupler is standard for fast implement hook-up.

The ISOBUS network communicates the 3-point hitch controls from the Tractor Management Center, allowing you to adjust maximum lift height, lift/lower speed, draft control, etc.

## Steerable 3-Point Hitch

For even more control and versatility, step up to the Challenger-exclusive steerable 3-point hitch. This unique option improves tractor steering control and row corrections, especially in narrower gauge applications.

With float, fixed or dampened side-to-side movement, which is controlled via the TMC display, the steerable hitch can improve turning radius by up to 60 percent and compensate for implement side-hill draft.

## Standard Drawbars Pull Their Weight

Built to withstand up to 10,000 pounds (4,536 kg) of vertical load, the standard drawbar swings up to nine degrees from the tractor centerline when unpinned. Rubber bumpers and wear plates cushion shock loads to ensure long life, while a trigger hitch pin makes one-person implement hook-up simple and convenient.

## Wide-Swing Drawbar

For heavy tillage operations, where there's no need for a 3-point hitch, a wide-swinging drawbar option swings a full 32 degrees, making it ideal for use in solid-seeded crops or field tillage. Tapered rollers and rubber bumpers virtually eliminate wear and shock loads during turns.

### 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.

# Welcome to Your New Office

Step into the MT700C Series cab and you'll swear the "C" stands for comfort, control and convenience. Stretch out in 108 cubic feet (3.06 m<sup>3</sup>) of space — more cubic feet of luxury than all others in its power class. However, it's what you don't see that really sets the new "C" Series tractors apart from other tractors in their class.

The entire machine is ISOBUS compliant, which culminates in the cab in the form of unprecedented control and monitoring of your tractor and implement functions and operation.

## 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.



## Office Amenities Throughout

An aristocratic ride is just the beginning of the comfort features you'll find in the MT700C 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 large temperature-controlled storage compartment keeps your lunch cool or warm.
- A new dash with digital displays for all major tractor and engine functions, including the selected gear, engine RPM and machine hours.
- 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.

### 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.

## Turn Night Into Day

As a farmer, you know that the work doesn't always stop when daylight ends. That's why the MT700C 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.

## A Panoramic View

In addition to 67.5 square feet (6.2 m<sup>2</sup>) of usable glass area, Challenger® MT700C 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 FOR

We're up to  
The Challenge

# ISOBUS

## Providing Control and Compatibility

As the international standard for electronic communications used in agriculture, ISOBUS is the future in farm equipment ... yet it's here today in the MT700C Series. One of the ISOBUS system's most popular features is it 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, simpler diagnostics; easier mapping and data management, and greater peace-of-mind.

### Your Window To The World



The all new TMC display found in the MT700C Series is comprised of a color screen, 12 re-programmable soft keys, and a rotary dial. This ISOBUS compliant unit allows the operator to monitor and manage all tractor functions, track service intervals, manage the AUTO-GUIDE<sup>2</sup> system, and collect valuable data for total farm management...all from one convenient location.

The TMC display also controls ISOBUS compliant implements, such as a planter, baler, or harvester without the need for additional

consoles, wiring harnesses, and control boxes. Simply plug and play for seamless operation.

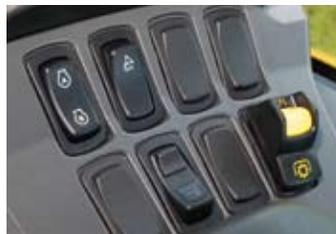
### One-Touch™ Headland Management

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 MT700C 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.



A new A/B engine speed switch on the TMC allows the operator to preset two memory settings for consistent engine speed during field operations and/or headland turns.

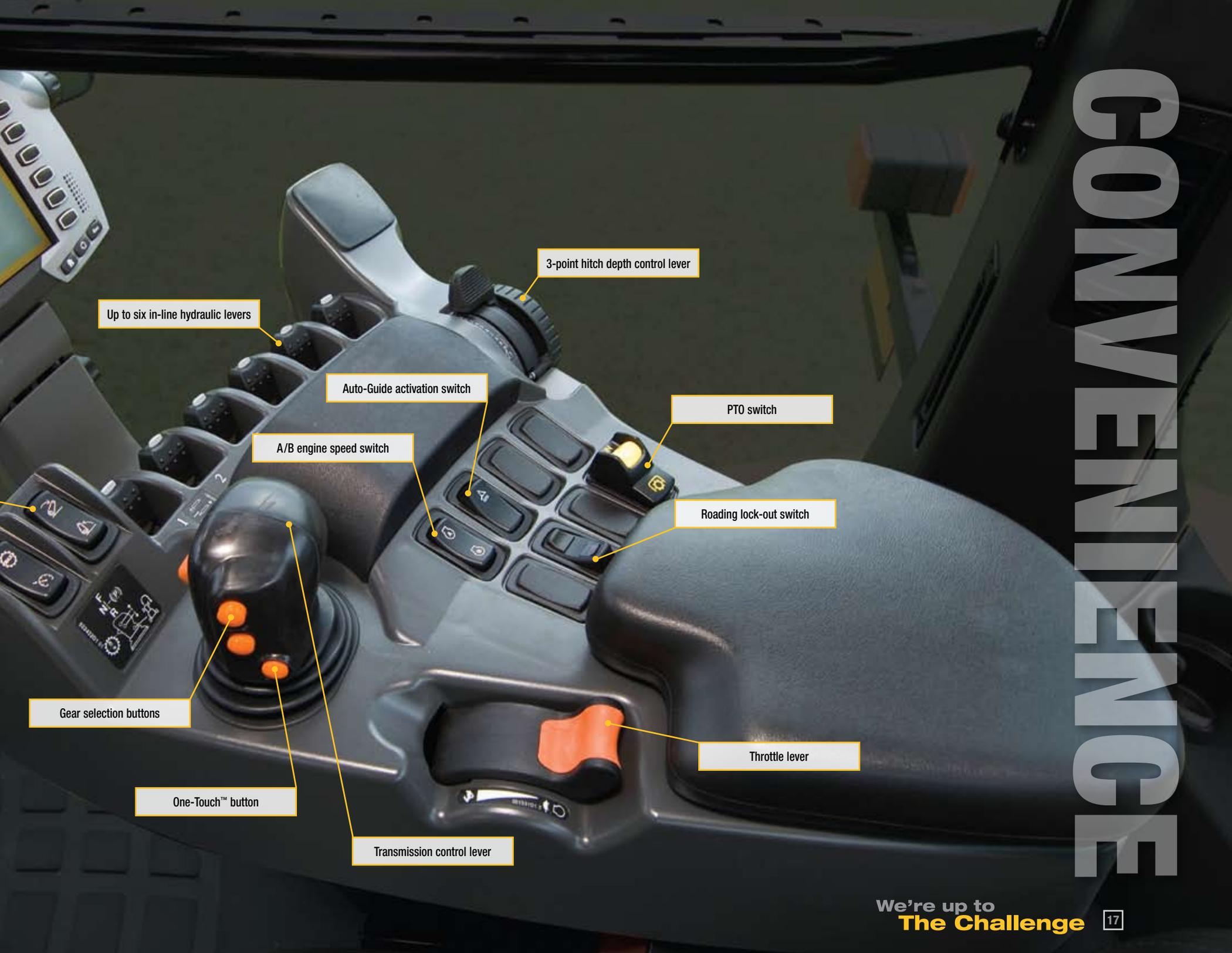


TMC display

3-point hitch raise/work switch

Power management switch

# COMFORT/EMERGENCY



Up to six in-line hydraulic levers

3-point hitch depth control lever

Auto-Guide activation switch

PTO switch

A/B engine speed switch

Roading lock-out switch

Gear selection buttons

One-Touch™ button

Transmission control lever

Throttle lever

We're up to  
**The Challenge**

# PRECISION



# Get More From Every Pass With AUTO-GUIDE<sup>2</sup>

Whether your goal is to reduce skips and overlaps or to work at faster speeds, the new AUTO-GUIDE<sup>2</sup> lets you get more out of every pass. By using GPS satellite navigation to guide the tractor along parallel swaths — straight or contoured — pass after pass, this hands-free steer-assist system brings a new level of control and productivity to your operation.

- 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).

### 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.

### 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 higher levels repeatability or high levels of accuracy, such as cultivation, band spraying, zone tillage and laying sub-surface drip tape.

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."



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.

# Cut Down On The Downtime

At busy times, routine service can take a backseat in the daily checklist. Fortunately, Challenger® engineers understand your hectic schedule and have made it easy to perform routine maintenance. With five easy-to-access daily service points, you can complete maintenance inspections at pit-crew efficiency, and get back in the field.

- 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.
- 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 cab air filter, conveniently located under the cab roof overhang is easily removed without tools for cleaning or replacement.
- Hydraulic and powertrain oil sight gauges at the rear of the tractor let you check the level at a glance.
- No tools are required to swing open the cooling cores to remove trash build-up or blockage.

## 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.



## 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 needs only to 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.

## World-Renowned Dealers, World-Class Service

When you buy a Challenger® MT700C Series tractor, you acquire something that money can't buy from other dealers. You get 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.



9056  
NMC CAT

Service

MT765C

SERVICE

# World-Class Support

With every Challenger® purchase, you're acquiring a lot more than a piece of farm machinery. You're also getting the Challenger commitment to quality and service.

If you haven't already done so, take a close look at the MT700C Series at your local Cat® dealership. 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. Consider just some of the benefits of being a Challenger customer.

## 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 preventative maintenance.

DEDICATION





# MT700C Specifications

	MT755C	MT765C
<b>ENGINE</b>	Caterpillar® C9 ACERT® Tier III	Caterpillar® C9 ACERT® Tier III
PTO Power @ rated 2100 RPM - HP (kW)	245 (183)	265 (198)
Gross Engine Power - HP (kW)	301 (224)	320 (239)
Power Growth PTO / Engine	13% / 8%	13% / 8%
Torque Rise PTO / Engine	52% / 42%	52% / 42%
# Cylinders / # Valves	6 / 24	6 / 24
Displacement - cubic in. (L)	538 (8.8)	538 (8.8)
Aspiration	Turbocharged / Air-to-Air Aftercooled	Turbocharged / Air-to-Air Aftercooled
<b>FUEL SYSTEM</b>	HEUI - ADEM 4 Full Electronic Control	HEUI - ADEM 4 Full Electronic Control
Fuel Tank Capacity - US gal. (L)	Standard 118 (447); Optional up to 208 (787)	Standard 118 (447); Optional up to 208 (787)
<b>TRANSMISSION</b>	Caterpillar® Powershift 16F / 4R	Caterpillar® Powershift 16F / 4R
Maximum Speed - mph (kph)	24.6 (39.6)	24.6 (39.6)
Steering	Caterpillar® Differential Steering	Caterpillar® Differential Steering
<b>GAUGE OPTIONS</b>	Infinitely adjustable bar axle with smooth hardbar	Infinitely adjustable bar axle with smooth hardbar
Standard - in. (mm)	60 - 88 (1524 - 2235)	60 - 88 (1524 - 2235)
Wide - in. (mm)	80 - 120 (2032 - 3048)	80 - 120 (2032 - 3048)
Ultra Wide - in. (mm)	120 - 160 (3048 - 4064)	120 - 160 (3048 - 4064)
<b>BELT OPTIONS</b>		
General Ag Belts - in. (mm)	16, 18, 25, 30 (405, 455, 635, 760)	16, 18, 25, 30 (405, 455, 635, 760)
Extreme Application Belts - in. (mm)	14, 16, 18, 25, 30 (335, 405, 455, 635, 760)	14, 16, 18, 25, 30 (335, 405, 455, 635, 760)
<b>MOBIL-TRAC UNDERCARRIAGE</b>		
Hardbar Suspension	Two Marsh Mellow® Springs	Two Marsh Mellow® Springs
Undercarriage Suspension	Suspended Midwheels	Suspended Midwheels
Hardbar Oscillation	Stabilizer Bar with 8° Range of Motion	Stabilizer Bar with 8° Range of Motion
<b>INDEPENDENT PTO</b>	1000 RPM, 20 Spline, 1.75" (45 mm) Electronically Controlled	1000 RPM, 20 Spline, 1.75" (45 mm) Electronically Controlled
<b>HYDRAULIC SYSTEM</b>		
Type of System	Load Independent Flow Division (Closed-Center, Pressure-Flow Compensated)	Load Independent Flow Division (Closed-Center, Pressure-Flow Compensated)
Std. Pump Flow - gpm (L/min)	43.5 (164.7)	43.5 (164.7)
Opt. Pump Flow - gpm (L/min)	59 (224.2)	59 (224.2)
Hydraulic Remotes	4 Standard / up to 6 Optional	4 Standard / up to 6 Optional
Max Flow at 1 Remote - gpm (L/min)	36 (136.3)	36 (136.3)
Maximum System Pressure - psi (bar)	2,900 (200)	2,900 (200)
<b>3-POINT HITCH / DRAWBAR</b>		
Std. 3-PT Hitch - lbs. (kg)	Category 3/3N 16,000 (7257)	Category 3/3N 16,000 (7257)
Opt. Steerable 3-PT Hitch - lbs. (kg)	Category 3/3N 16,000 (7257) +/- 8.6° Swing	Category 3/3N 16,000 (7257) +/- 8.6° Swing
Opt. Wide Swing Drawbar	Roller Type +/- 32° Swing	Roller Type +/- 32° Swing
Drawbar Capacity (Std. / Opt.) - lbs. (kg)	10,000 (4536) / 12,000 (5443)	10,000 (4536) / 12,000 (5443)
<b>DIMENSIONS</b>		
Wheelbase - in. (mm)	96 (2438)	96 (2438)
Overall Width Wide Gauge - in. (mm)	133 (3376)	133 (3376)
Overall Length - in. (mm)	233 (5917)	233 (5917)
Overall Height to Top of Cab - in. (mm)	135.5 (3444)	135.5 (3444)
Drawbar Clearance - in. (mm)	14.3 (365)	14.3 (365)
Approx. Shipping Weight - lbs. (kg)	31,075 (14,095)	31,075 (14,095)
Maximum Operating Weight - lbs. (kg)	36,000 (16,329)	36,000 (16,329)



## 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.