

Challenger MT800C

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SERIOUS MACHINERY



MT800C
430 - 570hp

The pursuit of perfection

Challenger's policy of constant improvement and use of the most advanced technology has already resulted in the world's premier tracked tractors.

It is with considerable pride that we now introduce the very latest machines - the 'C' Series - which incorporate a number of refinements and elevates these extraordinary tractors to unbeatable levels of excellence.

The new changes focus around the operator's working environment to achieve maximum 'Comfort, Convenience and Control'. In fact, the new-look cab has been completely re-designed to make the operator's

job easier and long working day more comfortable, with the new features helping to create an even more efficient, cost-effective tractor. We take this opportunity to reveal these improvements and explain the benefits that they bring to the latest generation of users.

Challenger comes of age

Twenty-one years of experience in the development of purpose-built agricultural tracked tractors has given Challenger a considerable head-start over other manufacturers. The Caterpillar heritage is still very evident in the new 'C' Series machines and remains a significant factor in buyers' investment decisions.

The Challenger brand – which also embraces wheeled and articulated tractors, combine harvesters, balers and application equipment – has achieved vigorous growth in recent years. The company looks forward to sustaining the momentum as important new markets come to appreciate the quality, reliability, comfort and prodigious work rates of these superb machines.

At the same time, more and more farming enterprises in established markets are realising the phenomenal difference that the awesome power and efficiency of Challenger MT800C Series tracked tractors can make to their bottom line.

MT800C Series

Model

MT845C	430hp	(298kW) rated engine power
MT855C	460hp	(342kW) rated engine power
MT865C	510hp	(380kW) rated engine power
MT875C	570hp	(424kW) rated engine power





But before going into the detail of the remarkable new Challenger MT800C Series, let's answer the question...



...Why should I buy a Challenger tracked tractor?

The reasons are numerous – here are some of the most compelling:

Financial

First and foremost, the phenomenal work rate of these machines gets the job done faster, using less fuel and operator time, so lowering costs of production and providing a handsome return on investment.

Astonishing traction

Weight is distributed evenly over the wide, long tracks, resulting in minimal wheel-slip and much reduced ground pressure. Less compaction means better soil structure, promoting improved crop establishment and quality.

Legendary CAT® heritage

Pioneering the development of rubber track traction and builders of the only tracked tractors specifically designed for agricultural applications.

Unrivalled power and performance

New generation Caterpillar® engines combine smooth, effortless power delivery with environmentally responsible emissions technology. Rugged and durable, yet sophisticated and versatile.

Superb cab environment

The new 'C' Series cabs take operator comfort and simplicity of control to new levels of excellence – as you would expect from Challenger.

Sophisticated tractor management

A truly intuitive performance aid, the Tractor Management Centre ensures all crucial functions are operating at optimum efficiency and protects the machine from less experienced operation.

Refined Mobil-Trac™ system

With the longest wheelbase in its power class, the Mobil-Trac frame assembly incorporates an in-line reaction arm for improved belt tension and increased chassis durability.

Opti-Ride™ suspension

For the smoothest ride over the roughest terrain, now with tough, new poly mid-wheel options, providing the operator with the greatest comfort and safety.

Flexible, industry - leading hydraulics

Load Independent Flow Division hydraulic system guarantees flow to all services, irrespective of engine speed and service pressure. Now with the ability to prioritise a specific hydraulic function demanding full flow.

Simple maintenance, the ultimate back-up

Five ground-level access daily service points minimise downtime, while Challenger's world-class support network is just a phone call away.

The new 'C' Series cab: Simple sophistication

A comfortable operator is a relaxed, happy operator – and with the latest generation Tractor Management Centre (TMC), he's a more efficient, productive one too.

At the heart of the system is the new TMC Display, a seven-inch (178 mm) colour screen fitted to the front of the right armrest and adjustable to provide the optimum view at all times. Importantly, the new system is completely ISOBUS compatible, eliminating the need for separate implement control equipment in the cab. In addition, the wiring architecture is simplified, thus benefiting the operator with a single yet comprehensive operating system.

The TMC Display continues in its role as the focal point for all tractor performance management, settings and operational functions. Indeed, every single tractor function is monitored, controlled and set on its screen. The One Touch Headland Management procedure is even more comprehensive on 'C' Series tractors

and easier to use. One Touch allows the operator to store 35 functions across six different implements.

The Power Management button automatically controls engine speed and transmission performance in order to achieve maximum productivity and economy. Two pre-set engine speed settings can now be selected to provide consistent speeds in working mode and other functions, such as turning.

Day-long comfort

A choice of two comfort levels begins with the standard seat, which itself has a higher specification than many so-called deluxe seats, with 10 possible adjustments and passive air seat suspension. This ergonomically-designed seat has many additional features to enhance comfort levels for the operator, including lumbar support, exchangeable cushions, swivel and a sculptured backrest for optimum comfort when turning in the seat.

The operator can personalise the seat by means of:

- Armrest adjustment.
- Fore-and-aft adjustment up to 178 mm.
- Fore-and-aft dampening.
- Side-to-side dampening.
- Adjustable lumbar support.
- Height adjustment up to 172 mm.
- Height dampening with weight adjustment from approximately 50kg to 175kg.
- Back angle adjustment up to 55°.
- 10° left hand swivel, with lock.
- 25° right hand swivel, with lock.

Deluxe Seat

The deluxe VRS seat features the award-winning **Vibration Reduction System**. The seat has a computer-controlled electromagnetic system that reacts to terrain inputs by altering the viscosity of the magnetic fluid in the damper up to 500 times per second, actively modifying the ride to reduce operator vibration transfer.

Additional features of the deluxe VRS seat include:

- Extendable headrest.
- Heated seat and back support.
- The option of anthracite grey leather cushions for the more discerning customer (also an option on the standard seat).
- Alternatively, replacement leather seat cushions can be ordered through AGCO Parts to upgrade an existing seat.

In total, there are four seat options, with both the standard and VRS versions available in cloth or leather.

Operators will also appreciate the new cab ventilation system's improved airflow, as well as better night visibility, thanks to the new front light bar arrangement.



New hydraulic features offer great flexibility

The Challenger MT800C Series retains the innovative Load Independent Flow Division (LIFD) system, in which, when all six valves are in use and the flow demand exceeds pump capacity, the flow to each is reduced by an equal percentage in order to maintain all operations.

However, an extremely useful new feature allows the operator to prioritise a hydraulic function that may be more crucial than the others, in order to maintain full flow to that function, while flow to the remaining functions is reduced.

Again, Challenger has anticipated the continuing trend towards the use of ever-larger implements with greater hydraulic demand by offering a bigger pump option – 223 l/min.

On the MT845C-MT865C models, the optional three-point hitches are designed as an integral system to provide maximum lift capacity, lift height and control.

The sheer strength, together with the

articulated design of this ‘steerable’ hitch, delivers superior performance and greater productivity with three point mounted tools.

Tough new midwheel options, plus undercarriage protection

Operating in demanding environments – such as very high temperatures or in abrasive conditions – can take its toll on the midwheels of tracked machines. So Challenger has developed ‘Poly midwheels’, an extremely hard-wearing alternative

to the standard rubber-coated specification, which are available as an option on the MT800C. Highly resistant to chipping and damage, they are designed to prolong the midwheels’ working life in adverse conditions and reduce the overall cost of ownership.

The new full-length debris deflector is made from the same Ultra-High Molecular Weight (UHMW) polyurethane as the midwheels and has the effect of protecting the undercarriage from stones, rocks and debris.

(For full track details and options, see page 27)

The new features introduced in the latest ‘C’ Series of Challenger tracked tractors are evidence of the company’s obsession with detail and constant quest for perfection.

To find out more, talk to your Challenger dealer.







Setting new standards

ACERT™ engine technology - responsible power

'C' Series machines are all equipped with the latest in environmentally sensitive engine technology. The C15 and C18 engines from CAT® meet the strict Tier III diesel engine emission regulations...without sacrificing performance, durability or reliability.

This latest development in engine technology controls the combustion process, so that emissions are minimised and performance is further enhanced. One of the key areas is the multiple-injection fuel delivery. This process introduces fuel into the combustion chamber in a number of precisely-controlled 'microbursts'. Injecting fuel in this way allows for precise shaping of the combustion cycle.

Leading the class with a massive 18.1 litres of displacement, the CAT C18 engine delivers maximum pulling power in all conditions. Challenger MT800C Series tractors have a standard 1155-litre capacity fuel tank, with the option of an additional 95-litre tank. This total

1250-litre fuel tank capacity is standard on the larger MT865C and MT875C models.

ADEM A4 electronics

At the heart of this new technology are the CAT ADEM 4 electronic controllers. This engine control system governs fuel delivery, valve timing and other engine processes with incredible precision. The ADEM 4 system is part of the Intellitronics™ system, which delivers power smoothly by co-ordinating communication between all tractor electronic control modules. It also controls the fine-tuning of the fuel/air ratios and is the heart of the new engine technology. This technology is achieved by:

Multiple injections of small amounts of fuel at precise timings which assists fuel economy, lowers emissions and improves response at reduced noise levels.

ACERT™ Technology maintains engine power even with changing fuel temperatures.

- The Hydraulic Electric Unit injector (HEUI) fuel delivery system improves tractor performance across the entire operating range. By tailoring fuel injection rates to operating conditions, noise and emission levels are lowered, fuel economy is improved and higher injection pressures are achieved.
- Four valves per cylinder, combined with the high-capacity wastegate turbocharger and air-to-air aftercooler, provide plenty of airflow for more power and greater fuel economy.

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.

Transmission

Reliability, durability and quality are built into the Challenger MT800C Series transmission, from the ground up – in fact, it's the only one in the industry

designed specifically for a rubber-belted agricultural tractor. In addition, this design was verified by extensively testing pre-production models in tough, real-life situations. Prior to assembly, test results are confirmed by re-testing every transmission as a unit before it goes into a tractor.

The Challenger 16F/4R electronically controlled transmission provides the user with extreme flexibility, offering several shift options, including an automatic

shifting mode using Power Management. In addition, using the Intellitronics™ network, smoother shifts result from continuous electronic communication between engine and transmission. Before the transmission executes a shift, it first senses how much load the engine is experiencing in order to deliver the smoothest shift possible.

The electro-hydraulic differential steering is speed sensitive. At higher transport speeds, the steering becomes

less sensitive and corrections are easier to make. At slower speeds, the steering is more sensitive and minimal inputs are required to make all corrections. When the tractor is in "Park", the steering is locked out.

MT800C series working ranges

Eight gears in the 6.5 to 14.9 Km/h (4 to 9.3 mph) operating range give the responsiveness and productivity your applications require. Closely spaced gear splits concentrated in the primary working range are 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*
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
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

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

With a transport speed of 39.6km/h, more time can be spent in the field and less on the road. The fastest of any rubber-tracked agricultural tractor, the Challenger MT800C Series tractors' gear splits are spaced further apart at the higher transport speeds. This requires minimal gear shifts while maintaining excellent acceleration to top transport speed.

Newest generation of track leadership

Nearly three decades of field experience has established Challenger tracked tractors as the undisputed leader in track technology. The Challenger MT800C Series Mobil-trac™ system extends that leadership to the next generation. The Mobil-trac™ system provides you with speed and mobility benefits along with the enhanced traction, flotation and low compaction advantages you expect from a Challenger tracked tractor.

The Mobil-trac system wheelbase is the longest in its power class at 3000 mm. This lengthened wheelbase and axle design distributes the tractor weight over a greater area, reducing the deep compaction that restricts plant root growth, even with the narrow 450 mm belts. Superior traction and lower rolling resistance are provided by the long wheelbase, transferring more power to the ground and improving fuel efficiency.

The Opti-Ride™ Suspension absorbs every ridge, bump and rut the tractor

encounters. High-tech rubber/fabric springs absorb shocks to the operator by isolating the hardbar from the chassis of the tractor. A robust stabiliser bar enables the left and the right undercarriages to rise up and down independently. The hardbar can tilt to an 8-degree angle allowing each side of the undercarriage to travel smoothly over obstacles in the field.

Four suspended midwheels contribute to a smooth ride. The entire undercarriage creates a bridge over field obstructions while the midwheels mould to the surface of the ground, cushioning the impact of uneven terrain. Additional rubber cushioning on the drivers, midwheels and idlers further enhances the ride.

For users working in demanding conditions – such as in very high temperatures or on abrasive ground – Challenger has developed ‘Poly-midwheels’. These are an extremely hard-wearing polyurethane alternative to the standard, rubber-coated specification and are available

as an option. Highly resistant to chipping and damage, they are designed to prolong the midwheels’ working life in adverse conditions, further reducing cost of ownership.

A new full-length debris deflector – an option made from highly durable polyurethane – protects the undercarriage from stones, rocks and other damaging debris.

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 111.21 kN of tension provide optimum belt-to-driver grip without placing stress on the tractor frame. Quick, easy gauge changes can be made without spacers and without detensioning the belt.

The 940 mm diameter front idler improves fuel efficiency by reducing the amount of rolling resistance. The rubber-coated surface is smooth for reduced vibration.







Track winners

Challenger standards

Belts built to “Challenger Standards” means belts designed and built from the ground up, without compromise. Each treadbar and guide block is sized to perform in specific conditions.

A patented arrangement of steel cables supplies the belt with extraordinary strength to withstand tremendous tension. Specialised rubber compounds, selected to stand up to abrasion and wear, are specified individually for treadbars, guide blocks and carcass, then bonded together during the unique Caterpillar® vulcanisation process. All of this attention to detail enables us to offer you better quality, long-lasting belts that meet your specific needs exactly.

Challenger MT800C Series tractors offer more Mobil-trac™ options than ever before, allowing you to tailor your tractor to your applications.

Caterpillar-built belts are available in four widths and in four types. With this series, two idler, two midwheels

and two driver widths are offered to improve belt life and belt-to-driver performance. Three infinitely adjustable gauge ranges are available to match your applications.

To expand the versatility of the Challenger MT800C Series tractor on your farm, consider your applications.

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 x 115 mm long guide blocks and 92 x 68.5 mm tall treadbars (46 treadbars on 406 mm diagonal tread belts).

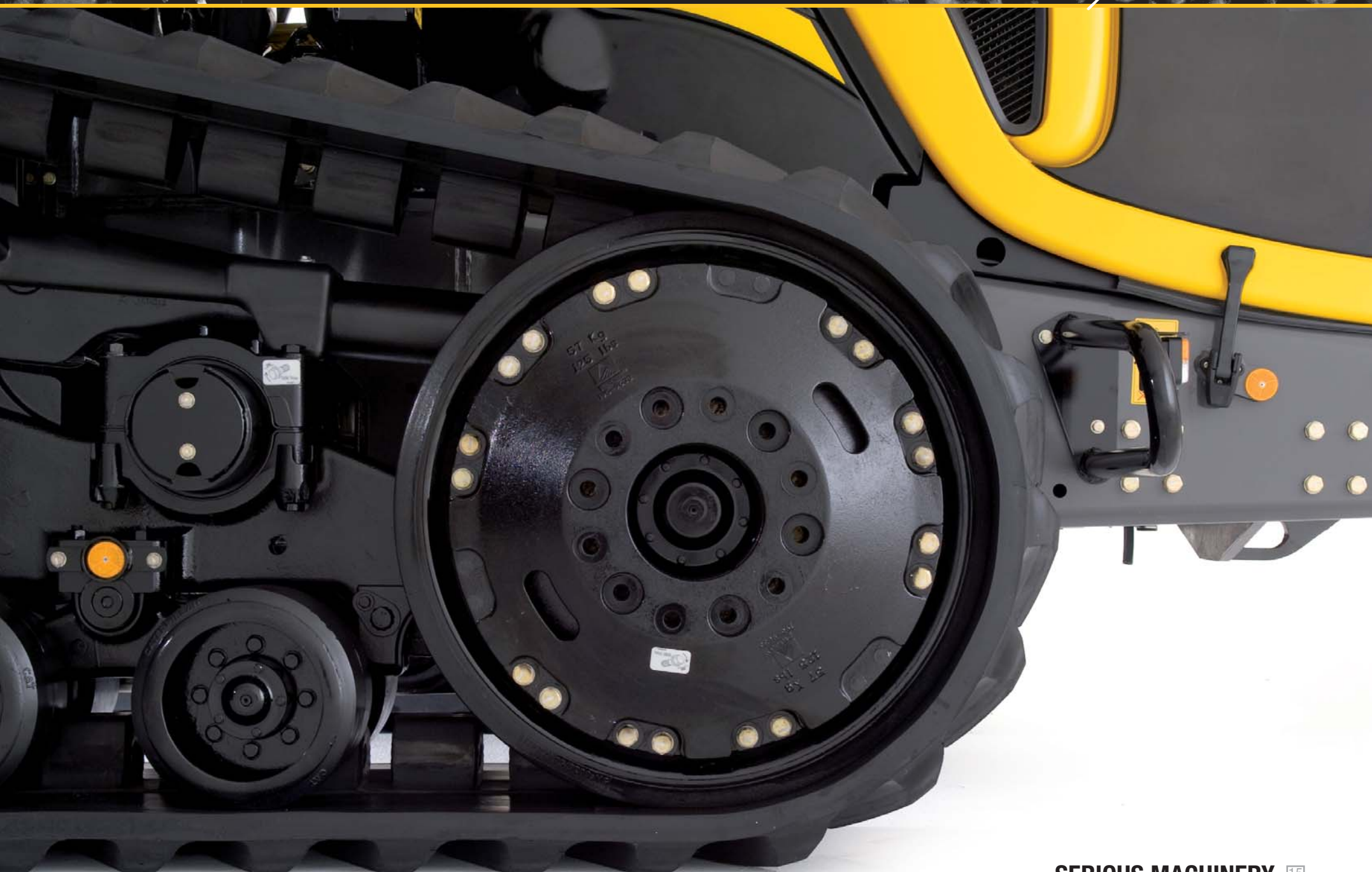
Extreme application belt

These tough belts are a good choice for applications that involve a large amount of road travel, steep side slopes or abrasive underfoot conditions. They feature a thicker

carcass, wider treadbars and longer guideblocks. Available in four widths.

Extreme ag belt

This tough belt is a good choice for applications that involve a large amount of use on steep side slopes. These belts consist of the longer guide blocks of the extreme application belts with the treadbars of the ag belt, along with an additional layer of steel cables and an extra layer of rubber. Available in two widths.



One-Touch™ control at your fingertips

Simultaneous control is now performed through the screen.

The intuitive One-Touch™ management system gives you the power to initiate several tractor and implement functions at the same time with the single push of a button. Easy to operate, the One-Touch management system uses the Intellitronics™ network to record and execute functions such as transmission shifting, throttle, 3-point hitch position, PTO status, implement raising and lowering and optional Auto-Guide™.

The One-Touch management system offers flexibility by allowing you to use it in one of two ways. In Shift mode, the tractor will up or downshift a pre-selected 1, 2, 3 or 4 gears with a push of the One-Touch button. Exclusive to Challenger, the system remembers only the number of gears you would like to up or downshift, rather than the exact gears. This gives you the flexibility to adjust your speed easily to

field conditions and maintain optimum productivity.

In One-Touch mode, repetitive actions are recorded and repeated on command, making your application effortless and less tiring. Both a Work and a Raise sequence can be recorded to further simplify your application and eliminate possible errors due to fatigue.

Recording a sequence of work events using the One-Touch management system is as easy as 1, 2, 3:

- 1 Simply press and hold the top of the One-Touch switch for three seconds. An alarm will sound and a light on the dash panel will indicate that a sequence is being recorded.
- 2 Perform the functions you would like recorded. All of the actions you initiate and the time delays between them will be recorded in the order they were performed.

3 To finish, press the top of the One-Touch switch. An alarm from the display will indicate that recording has stopped.

To record the Raise sequence, use the bottom of the One-Touch switch instead.

Power management made easy

Power Management helps you get the job done faster and more consistently. Executed through the Intellitronics™ network, Power Management is a control strategy that varies engine, transmission and hitch settings to optimise tractor efficiency and productivity in various applications. It is controlled using the Tractor Management Centre and the transmission control lever.

Maximum power output

Heavy draft loads demand maximum power to keep the implement at the proper working depth and keep you

moving for high productivity. Maximum Output mode assists by automatically shifting to keep the engine in the peak power range where horsepower and torque are maximised.

Constant ground speed

Thoroughly incorporating crop inputs with a field cultivator is effortless using the Constant Ground Speed mode. A preset ground speed is achieved by varying the engine speed and automatic transmission shifts.





Intelligent management

Challenger standards

As Challenger machines operate in some of the toughest applications in the most remote areas of the world, all electronic systems are built to withstand the most demanding environments.

The MT800C Series electronic systems are built with thicker, 18-gauge wire that is individually insulated and then sheathed in nylon-braided wiring harnesses to offer unsurpassed protection. Watertight connectors link wires together to prevent corrosion. Should a problem arise, all wires are colour-coded and identified every 51 mm with laser-embossed labels to withstand years of service.

Achieving top tractor performance has never been so easy. Using the Intellitronics™ network, the state-of-the-art Tractor Management Centre puts you in command with intuitive controls and at-a-glance performance information.

Vital performance and diagnostic information are shown in an easy-to-read text format using the TMC display screen.

This allows you to fine-tune tractor operations by monitoring performance measures such as slip and draft control within the parameters you choose. Transflective screen technology keeps the display crystal clear even in direct sunlight.



The new generation tractor management centre

The 'nerve centre' of the MT800C Series is the newly-designed Tractor Management Centre (TMC), which features a high quality, colour 7in (178 mm) TMC Display, fitted at the front of the ergonomically-advanced right armrest. The screen is fully adjustable to ensure operators have the clearest view at all times.

However, the TMC Display is more than just a screen. In addition to being an integral feature of the TMC control system, it includes a total of 15 keys positioned around the screen, along with a rotary 'selector' dial. These all comply with ISOBUS 11783, the internationally-recognised common standard for tractor and implement electronic operation.

The TMC Display's ISOBUS compatibility means that there is no requirement for additional implement control terminals in the cab, not only saving on cost, but also making the operator's job considerably easier by only having to be familiar with a single control system. Once the operator has mastered one machine, it's exactly

the same routine for all other ISOBUS-compliant equipment.

Operation could not be more straightforward. The moment a compatible implement is connected – to the special ISO socket – an icon appears on the TMC Display. When the button next to the icon is pressed, the implement's setting and operation menu information appears on the Display, exactly as they would on a separate monitor. In addition, information can be transferred to and from the unit using a standard SD card and USB flash ports.



Besides its ISOBUS capabilities, the TMC Display continues to provide all the tractor's performance management, settings and operational functions, as before. The One-Touch Headland Management sequence, for example, is now even more comprehensive and simpler to use. One-Touch allows operators to store up to 35 functions for a total of six machines, which can be replayed at the touch of a button. This sequence can now be programmed and edited on the screen, without the need to record the entire sequence again.

The TMC Display also sets up, runs and displays the information from the optional Challenger automatic steering system as well as the Video input option.

In fact, the TMC Display monitors, controls and sets every conceivable tractor function on its screen – the flow and timing of up to six electronically-controlled spool valves, for example, can be set on the Display and included in the One-Touch system.

Just to the left of the hydraulic switches is the Power Management button, which is used to automatically control engine speed and transmission operation in order to maintain maximum productivity and fuel economy. Additionally, operators can now select two pre-set engine speed settings – which can also be included in the One-Touch sequence – ensuring consistent speeds for work and, for example, turning.





Raising standards

A fully integrated working end

The Challenger MT800C hitches are designed as integral systems with the tractor – not as add-ons. Balance and load carrying requirements were carefully examined and integrated into the tractor design process. The result is 3-point hitches that expand your productivity by providing you with maximum lift capacity, lift height and intelligent control.

The standard 3-point hitch leads the industry with 14,000 kg lift capacity. This tough hitch provides the greatest lift capacity at the implement centre of gravity, where it's needed most. For longer service life, inverted, seal down lift cylinders ensure clean and debris-free operation. A heavy-duty quick coupler is offered for fast implement hook-up.

For applications involving lots of steering with the hitch in the ground, the steerable 3-point hitch is available. The Challenger-exclusive steerable 3-point hitch is an option which can

improve tractor steering control and row corrections. Offering up to 60% shorter turning radius, the steerable hitch works independently of the differential steering system in float mode; or can be turned on and off as needed in manual mode. The steerable 3-point hitch shares the industry-leading 14,000 kg lift capacity.

The standard drawbar with a trigger hitch pin is standard, making one-person implement hook-up simple and convenient. When unpinned, the standard drawbar can swing 9 degrees from the tractor centreline. Rubber bumpers and wear plates are standard to cushion shock loads and ensure long life.

Raising the standards for hydraulic power

Challenger MT800C Series tractors raise the standards for hydraulic power, literally. Providing an industry-leading 223 l/min as standard equipment, the Caterpillar® designed system meets the needs for the way you really use hydraulics.

Easy to hook up without extra connectors, four remote circuits are standard with options for as many as six. The hydraulic power-beyond valve expands the versatility of the tractor by providing hydraulic flow directly to implement motors and fans. A large sump, a superior hydraulic oil cooler and generous flow ensure hydraulic control and responsiveness without compromise. The Challenger-exclusive Load Independent Flow Division (LIFD) ensures proportional oil flow to all circuits when the system is operating at full capacity. Especially important in applications like planting, LIFD guarantees non-stop operation even when hydraulics are in high demand.

An extremely useful new feature on MT800C Series tractors is the facility to prioritise a particularly crucial hydraulic function to ensure full flow to that function, while reducing the flow to others accordingly.

Remote implement hydraulics are electronically controlled for precise management via the Intellitronics™ network. Using the Tractor

Management Centre (TMC), you can program in flow changes on the go, adjust timed detents and adjust individual valve operation precisely. Up to six in-line electronic levers are generously sized and positioned for intuitive operation and fingertip control. An additional lever just behind the handrest controls the optional sixth implement valve.

Challenger standards

Challenger has built a reputation based on industry-leading durability. A reputation that is designed into every aspect of the MT800C Series tractors. To ensure the durability of the wide-swinging drawbar, the rollers have a tapered form. This intuitive design rolls more easily over debris as it follows the drawbar swing path, minimising wear.



Save time in the field

Challenger has spent time getting the detail right to save you more time in the field. Track gauge can be changed easily, without detensioning the belt, in less than two hours. Simply loosen the hardbar bearing caps and support the tractor. With the gauge adjustment tool, loosen the collet bolts and adjust the gauge to the desired width.

Challenger standards

With the Challenger MT800C, regular maintenance checks can be carried out quickly and accurately.

The gas strut-assisted, tilt-up bonnet opens from the front, allowing easy 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.

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 oil filter slides out for easy replacement, while cooling radiators swing forward without tools for debris removal.

The air filter for the cab is conveniently located under the roof overhang and is easily removed for cleaning or replacement.

A large capacity 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 allows the operator to quickly check the combined hydraulic, steering, differential and final drive oil levels, and there are quick-disconnect ports for all oil sample points.

With Challenger MT800C Series tractors, you'll spend less time on general maintenance and more time at work in the field. The innovative on-board Tractor Management

Centre monitors long-term service intervals and alerts the operator when scheduled maintenance is due. The TMC screen provides diagnostics in both text and code.



Supporting you

No one supports your business like a Challenger dealer.

Cultivations, drilling and harvest are often a race to the finish. Like any race, success can be dependent on your support team. To keep your equipment hard at work, Challenger dealers offer the responsive support you require at critical times on your farm or in your field.

Extensively trained, field-based service technicians with fully equipped mobile service vehicles respond to your specific needs by bringing the right tools and training to you. Each service vehicle is loaded with the diagnostic capability and tools to meet almost all of your service requirements, wherever needed.

When you own a Challenger, you can be sure that you have the backing of the finest dealer network in the world.



Navigation

Challenger's optional automatic steering system significantly improves working efficiency, reducing overlaps and misses. Faster operating speeds, less fatigue, lower operating costs – these are just a few of the ways you benefit from the Challenger satellite navigation system. Using GPS technology, the system guides the tractor along varying swathe patterns, and even makes steering corrections for you.

The flexibility to perform precision applications like bedding, planting and tillage are built into the system. The GPS receiver sends location information to the implement variable rate controllers via the Intellitronics™ and ISO11783 networks.

A green status indicator on the dash panel signals that the satellite navigation system is ready to control the primary steering. If the system switch is pressed, it will respond and a yellow indicator light will illuminate, telling the operator that the satellite navigation system is controlling the primary steering of the tractor.



Specifications

	MT845C	MT855C	MT865C	MT875C
Engine	CAT® C15 ACERT™	CAT® C15 ACERT™	CAT® C18 ACERT™	CAT® C18 ACERT™
Rated engine power @ 2,200 rpm	430 Hp	460 Hp	510 Hp	570 Hp
Rated engine power @ 2,200 rpm	321 kW	343 kW	380 kW	425 kW
Max power @ 1,850 rpm	473 Hp	506 Hp	583 Hp	609 Hp
Max power @ 1,850 rpm	353 kW	377 kW	435 kW	454 kW
Max torque @ 1,400 rpm	2,134 Nm	2,286 Nm	2,525 Nm	2,828 Nm
Engine displacement	15.2 Litres	15.2 Litres	18.1 Litres	18.1 Litres

Fuel Tank Capacity

Standard	1,150 Litres	1,150 Litres	1,250 Litres	1,250 Litres
Optional	1,250 Litres	1,250 Litres	-	-

Transmission

Type	CAT® Powershift	CAT® Powershift	CAT® Powershift	CAT® Powershift
Forward and reverse speeds	16 fwd x 4 rev	16 fwd x 4 rev	16 fwd x 4 rev	16 fwd x 4 rev
Max transport speed	40 Kph	40 Kph	40 Kph	40 Kph

Hydraulic System

Type	LIFD with Priority function	LIFD with Priority function	LIFD with Priority function	LIFD with Priority function
Number of rear spool valves	Up to six	Up to six	Up to six	Up to six
Max flow	223 Litre / min	223 Litre / min	223 Litre / min	223 Litre / min
Max pressure	200 Bar	200 Bar	200 Bar	200 Bar

Specifications

	MT845C	MT855C	MT865C	MT875C
Rear Linkage	Optional	Optional	Optional	N/A
Type	Electronic Linkage Control	Electronic Linkage Control	Electronic Linkage Control	N/A
Draft sensing	Yes	Yes	Yes	N/A
Lift capacity	14,000 Kg	14,000 Kg	14,000 Kg	N/A
Size category	Cat IV	Cat IV	Cat IV	N/A

Dimensions

Wheelbase	2,950 mm	2,950 mm	2,950 mm	2,950 mm
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Belt options

General Agricultural	18" - 450 mm / 27.5" - 698 mm / 30" - 762 mm / 36" - 914 mm
Extreme Agricultural	27.5" - 698 mm / 30" - 762 mm
Extreme Application	18" - 450 mm / 27.5" - 698 mm / 30" - 762 mm / 36" - 914 mm

PTO System

Type	Standard
Speeds	Independent 1,000 rpm

Operator Environment

Noise level	73 dB(A)
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Optional Equipment

- Climate Control
- Deluxe VRS seat
- Nightbreaker work lights

Challenger MT800C



Challenger®

SERIOUS MACHINERY



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