

Challenger

LEADS EVERY FIELD

MT700E & MT800E Series Track Tractors
MT765E | MT775E | MT855E | MT865E | MT875E



Challenger



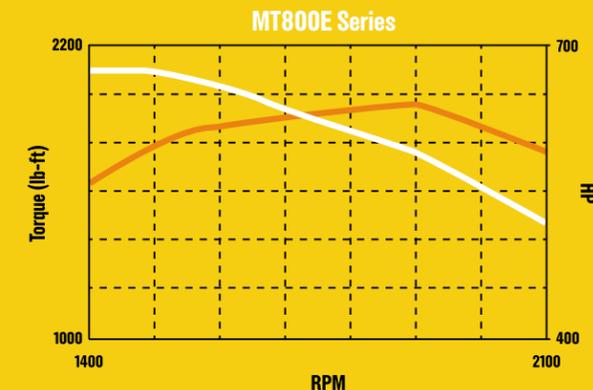
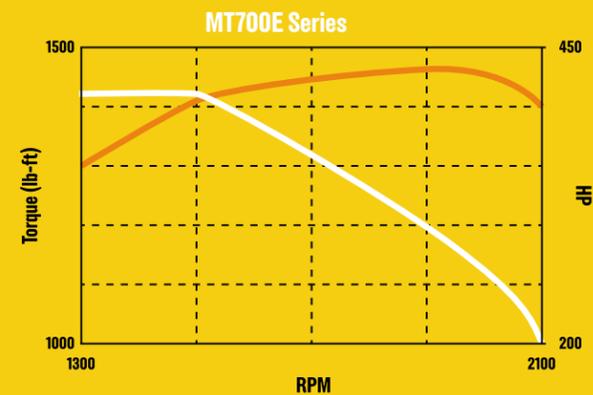
CHOOSE YOUR NEW WEAPON

Introducing the Challenger MT700E & MT800E Series tractors, a new line of heavy-duty, high-horsepower rubber-tracked farm tractors designed to stretch the limits of productivity and performance. These new tractors are the result of decades of design and engineering leadership in rubber-belted track technology.

Model	Engine	Engine HP* (kW)	MAX (kW)
MT765E	AGCO POWER 9.8L	375 (280)	405 (302)
MT775E	AGCO POWER 9.8L	400 (298)	431 (322)

Model	Engine	Engine HP* (kW)	MAX (kW)
MT855E	AGCO POWER 16.8L	490 (365)	529 (394)
MT865E	AGCO POWER 16.8L	540 (403)	583 (435)
MT875E	AGCO POWER 16.8L	590 (440)	637 (475)

* SAE HP



A long, flat, sustainable torque curve means serious lugging ability. Power through tough spots without stalling. High torque at lower RPMs equals better productivity and efficiency.

— Engine Power
— Engine Torque



TORQUE THAT RISES TO THE OCCASION

The new AGCO POWER engines found in the MT700E and MT800E Series track tractors possess superior torque. By generating a greater torque rise over a wider range of RPMs, you get unmatched lugging ability for maximum productivity. Abandon the need to downshift or pull an implement out of the ground should the going get tough. With a higher sustained torque curve, you'll operate at lower RPMs to save on fuel while extending engine life.

How is this possible? Because all AGCO POWER engines are specifically designed from the ground up for ag applications – not retrofitted from an on-highway engine. Whether you arm yourself with the AGCO POWER 9.8L or 16.8L engine you'll cover more ground in less time so you'll never find yourself racing to beat sundown.

New AGCO POWER 9.8L and 16.8L engines deliver more horsepower and greater efficiency.

- New turbocharger packages provide excellent engine response and high torque at all engine RPMs
- Hits the power sweet spot for maximum efficiency
- Impressively long, flat torque curve and high torque rise at low RPMs
- Massive pulling power with minimal fuel consumption
- Backed by more than five years of rigorous field testing

POWER TO THE GROUND WE INVENTED IT

Power under the hood is one thing – But the new MT700E and MT800E Series also feature our patented Mobil-trac system that redefines the meaning of power to the ground. Unlike some competitors who simply retrofit their wheel tractors with tracks, we engineered these tractors from the ground up to be track machines – ballasted correctly from the start to ensure a better ride and more efficient transfer of power.

But there's much more than brute power at play here. Comfort becomes critical when putting in a long day in the field. The Mobil-trac system delivers the most comfortable ride in the industry with Marsh Mellow® springs that compress and expand to allow the hardbar to oscillate freely. This reduction in vibration delivers a ride that's far more comfortable than competitive air-bag suspension systems.

PATENTED OSCILLATING MIDWHEELS

- Maximum track to ground contact for improved traction
- Reduced compaction for better yields

FRICTION DRIVE SYSTEM

- The large diameter driver allows for more belt contact, which translates into more power to the ground, longer belt life and lower rolling resistance

TRACKS

- Available gauge settings from 182 cm - 406 cm (72"-160") and eight-track widths
- MT700E – 18" - 34" track offerings
- MT800E – 27.5" - 36" track offerings
- General Agriculture, Extreme Agriculture and Extreme Application tracks



High-tech Marsh Mellow® springs significantly reduce vibration for a smoother ride

TOUGH POWER BROKER

IN-LINE DRIVETRAIN

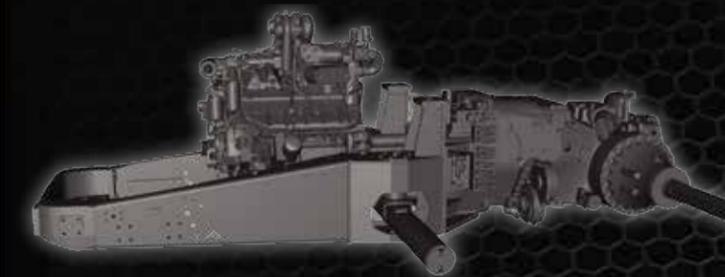
The drivetrain on the Challenger MT700E & MT800E Series is designed and engineered to transfer the serious power of the engines to the ground-grabbing tracks. These aren't converted from a wheeled tractor powertrain. They're the strongest, most durable drivetrains in the industry.

It all starts with some hard-hitting parts: an AGCO POWER engine designed from the ground up for agricultural use, a proven CAT transmission and our unique Mobil-trac system to give you a reliable system that works together. As the original designer of the track tractor, we build upon the best design out there and keep our lead by continuing to improve it.

CAT POWERSHIFT TRANSMISSION

The MT700E and MT800E Series approach to power delivery is all about smooth moves. With new CAT Powershift software, you'll immediately take notice of smoother shifting. The results are less restriction for preserved forward momentum and reduced power loss. Not only is this more efficient, but it improves the ride for less wear on the most important part of the tractor – the operator.

- Simple intuitive transmission control lever with up/down shift buttons
- Exclusive Power Management automatically shifts gears to maintain ground speed and minimise fuel consumption
- 16 Forward gears provide up to 40 km/h to minimise transport time



In-line frame design maximises total efficiency of power transfer from the engine to the transmission for unmatched power to the ground.

SERIOUS EFFICIENCY

When it comes to hydraulics, Challenger steps up to today's demanding applications by greatly increasing your flow capacity. The MT700E and MT800E Series make it easier to get work done with a hydraulic system built for today's demanding implements. It starts with a design built around two pumps. The second pump kicks in only when the going gets tough, keeping the system efficient. At up to 321 litres per minute flow, there's enough pump capacity to handle the most hydraulically demanding implements.

Take advantage of up to 6 hydraulic remotes plus an available 3-point hitch. The MT700E and MT800E Series also come well-equipped with a closed-centre, load sensing, pressure-flow compensating (PFC) system and interchangeable valve couplers. Where Power Beyond* is fitted, you have the ability to provide continuous, full flow directly to meet the most demanding hydraulic requirements.

**UP TO
321
L/MIN
FLOW**

*Power Beyond optional



WORKING HARD NEVER FELT SO GOOD

The MT700E and MT800E Series tractors both feature an ergonomically designed Pinnacle View Cab for a panoramic 360-degree view – putting you on the front row of productivity.

Settle into our new optional deluxe, vented-leather seat that maximises operator comfort with temperature controls and a wider range of adjustments. Power Management and hydraulic controls are conveniently positioned on the armrest control. As you glide through the field with oscillating midwheels and Marsh Mellow® springs under your cab, the air suspension seat beneath you is the icing on the cake making long days seem not quite so long.



Auto-Guide™ 3000 Advanced offers greater efficiency in the field with satellite-assisted steering with optional touchscreen for best-in-class ease of use

New heated and ventilated leather seat option maximises operator comfort

Industry-exclusive TMC (Tractor Management Centre) armrest puts core functions at the operator's fingertips

SERVICING MADE EASY

With the Challenger MT700E and MT800E Series tractors, routine maintenance is fast, straightforward and simple – in short, less stressful. They have convenient access points from the ground and an easy open bonnet. That means you don't waste time in the morning and get into the field faster.

The innovative on-board Tractor Management Centre (TMC) monitors long-term service intervals and alerts the operator when scheduled maintenance is due. The TMC screen provides diagnostics in both text and code.



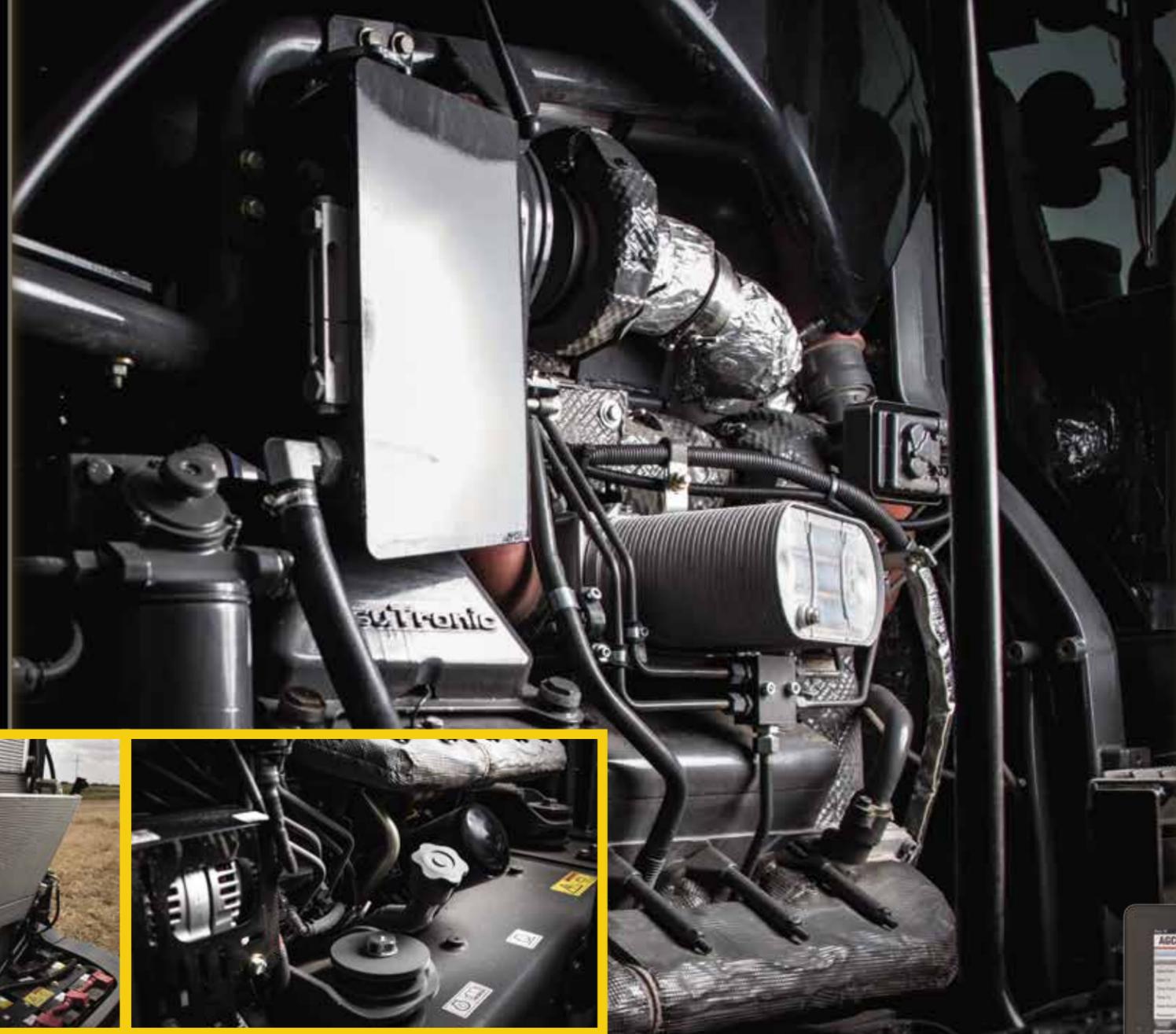
Engine air filter is easily removed and conveniently positioned



Engine cooling package with easy-to-clean two-plane design



Engine oil can be checked and topped from ground level



IMPROVE EFFICIENCY WITH PRECISION TECHNOLOGY

FUSE TECHNOLOGIES

AGCO's global precision farming initiative brings together and optimises all of AGCO's current and future technology products and services including guidance, steering, telematics, diagnostics, application controls, yield metering, mobile apps and grain storage monitoring. Fuse Technologies supports growers throughout the entire crop cycle by maximising uptime and putting all farm assets in the right place at the right time. Learn more at www.AGCOtechnologies.com.

AGCOMMAND®

AGCO's AgCommand® is an industry-leading tool that allows wireless transfer of your vehicle data back to your office or mobile device. Access everything you need to optimise performance, monitor vehicle service intervals, monitor operating costs and generate easy-to-use information to drive efficiency and productivity. AgCommand®'s applications tell you where your machines are and what they're doing – putting you in complete control like never before. The data is

transferred to a secure internet site that can be viewed from your laptop, iOS phone or iOS tablet.



AUTO-GUIDE 3000

Auto-Guide 3000 is a complete, integrated autosteering system that works seamlessly with your AGCO vehicle terminal. It uses advanced satellite navigation and the TMC Display to steer the tractor, removing much of the tedium of field operations and leaving the operator free to focus their attention on optimising settings and monitoring work more closely. This highly advanced but simple-to-use system will help you reduce input costs as well as operator fatigue.

At the end of the day, significantly reduced operator fatigue equals increased accuracy and greater efficiency on the farm.



FUSE
TECHNOLOGIES

FUSE CONTACT CENTRE

The Global Fuse Contact Centre is a customer support resource open seven days a week that assists growers with setup, calibration and operational support on AGCO precision agriculture and machine communication technology products. Visit www.AGCOtechnologies.com/support for more information or call 1800 210 385 (Australia) or 0800 442 677 (New Zealand).

MT700E Series

MT765E | MT775E

MODELS	MT765E	MT775E
ENGINE		
Type	AGCO POWER™ 9.8L	AGCO POWER™ 9.8L
ISO Engine @ rated 2,100 RPMs – HP (kW)	375 (280)	400 (298)
Maximum ISO Engine @ rated 1,900 RPMs – HP* (kW)	405 (302)	431 (322)
Peak Torque @ 1,500 RPMs – Ft Lbs (Nm)	1,334 (1,808)	1,417 (1,921)
Engine Torque Rise	42%	42%
Number of Cylinders / Number of Valves	7 / 28	7 / 28
Displacement – L (CID)	9.8 (598)	9.8 (598)
Aspiration	Twin Turbo Chargers	Twin Turbo Chargers
FUEL SYSTEM		
Fuel Tank Capacity – L	Standard – 677 / Wide & Ultra Wide Gauge – 962	
TRANSMISSION		
Type	Caterpillar® Powershift 16F / 4R	
Maximum Speed – kph	39.6	
Creep Gear Box (Optional)	4:1 reduction	
Steering	Caterpillar® Differential Steering	
GAUGE OPTIONS		
Type	Infinitely adjustable bar axle with smooth hardbar	
Standard / Wide / Ultra Wide – in. (mm)	72 – 88 (1,829 – 2,235) / 80 – 120 (2,032 – 3,048) / 120 – 160 (3,048 – 4,064)	
TRACK OPTIONS		
General Ag Tracks – in. (mm)	18, 20, 25, 30, 34 (455, 508, 635, 760, 864)	
Extreme Ag Tracks – in. (mm)	25, 30, 34 (635, 760, 864)	
Extreme Application Tracks – in. (mm)	18, 20, 25, 30 (455, 508, 635, 760)	
MOBIL-TRAC UNDERCARRIAGE		
Hardbar Suspension	Two Marsh Mellow® Springs	
Undercarriage Suspension	Oscillating Midwheels	
Hardbar Oscillation	Stabiliser Bar with 8° Range of Motion	
INDEPENDENT PTO		
	1,000 RPM, 20 Spline, 1.75" (45 mm) / Electronically Controlled	
ELECTRICAL SYSTEM		
Alternators / Batteries	2 – 150 amp / (2) 1,000 cca 12 V	
HYDRAULIC SYSTEM		
Type	Closed-Centre, Pressure-Flow Compensated	
Std. Pump Flow / Opt. Pump Flow – L/min	220 / 321.8	
Hydraulic Remotes	5 Standard / up to 6 Optional	
Max Flow at 1 Remote – L/min	93.1 Standard / 163.3 Optional	
Maximum System Pressure – psi (bar)	2,900 (200)	
3-POINT HITCH / DRAWBAR		
Std. 3-PT Hitch – kg	Category 3/4N 7,257	
Opt. Wide Swing Drawbar	Roller Type + / - 32° Swing	
Drawbar Capacity (Std. CAT 4/Opt. CAT 3) – kg	5,443 / 4,536	
WEIGHT		
Approx. Shipping Weight / Maximum Operating Weight – kg	13,667 / 17,690	

*SAE Horsepower

MT800E Series

MT855E | MT865E | MT875E

MODELS	MT855E	MT865E	MT875E
ENGINE			
Type	AGCO POWER™ 16.8L	AGCO POWER™ 16.8L	AGCO POWER™ 16.8L
PTO Power @ rated 2,100 RPMs – HP (kW)	400 (298)	425 (316)	425 (316)
ISO Engine @ rated 2,100 RPMs – HP* (kW)	490 (365)	540 (403)	590 (440)
Standard Maximum Power	529 (394)	583 (435)	637 (475)
Engine Torque Rise	42%	42%	42%
Peak Torque @ 1,500 RPMs – Ft Lbs (Nm)	1,740 (2,360)	1,917 (2,600)	2,095 (2,841)
Number of Cylinders / Number of Valves	12 / 48	12 / 48	12 / 48
Displacement – L (CID)	16.8 (1,025)	16.8 (1,025)	16.8 (1,025)
Aspiration	Dual Twin Turbo Chargers	Dual Twin Turbo Chargers	Dual Twin Turbo Chargers
FUEL SYSTEM			
Fuel Tank Capacity – L	1,250		
TRANSMISSION			
Type	Caterpillar® Powershift 16F / 4R		
Maximum Speed – kph	39.6		
Steering	Caterpillar® Differential Steering		
GAUGE OPTIONS			
Type	Infinitely adjustable bar axle with smooth hardbar		
Standard – in. (mm)	90 – 128 (2,286 – 3,251)		
TRACK OPTIONS			
General Ag Tracks – in. (mm)	27.5, 30, 36 (698, 762, 915)		
Extreme Ag Tracks - in. (mm)	27.5, 30 (698, 762)		
Extreme Application Tracks – in. (mm)	27.5, 30, 36 (698, 762, 915)		
MOBIL-TRAC UNDERCARRIAGE			
Hardbar Suspension	Two Marsh Mellow® Springs		
Undercarriage Suspension	Oscillating Bogie System w/ Suspended Midwheels		
Hardbar Oscillation	Stabiliser Bar with 8° Range of Motion		
INDEPENDENT PTO			
	1,000 RPM, 20 Spline, 1.75" (485mm) / Electronically Controlled (Optional)		
ELECTRICAL SYSTEM			
Alternators / Batteries	2 – 150 amps / (4) 1,000 cca 12 V		
HYDRAULIC SYSTEM			
Type / Maximum System Pressure – psi (bar)	Closed-Centre, Pressure-Flow Compensated / 2,900 (200)		
Std. Pump Flow / Opt. Pump Flow – L/min	220 / 321.8		
Hydraulic Remotes	5 Standard / up to 6 Optional		
Max Flow at 1 Remote – L/min	93.1 Standard / 163.3 Optional		
3-POINT HITCH / DRAWBAR			
Opt. 3-PT Hitch – kg	8,845		
Std. Wide Swing Drawbar / Opt. Wide Swing Controlled Drawbar	Roller Type + / - 32° Swing / Hydraulic Position Controlled / Dampening		
Drawbar Capacity (Std. CAT 5/Opt. CAT 4) – kg	5,670 / 4,535		
WEIGHT			
Shipping Weight [no weights or brackets] / Maximum Operating Weight – kg	19,321 / 25,362		

*SAE Horsepower

Challenger

MT700E & MT800E Series Track Tractors
MT765E | MT775E | MT855E | MT865E | MT875E

Every effort has been made to ensure that the information contained in this publication is as accurate and current as possible. However, inaccuracies, errors or omissions may occur and details of the specifications may be changed at any time without notice. Therefore, all specifications should be confirmed with your Challenger Dealer or Distributor prior to any purchase.

Visit the Challenger Site: www.challenger-ag.com.au

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