

Challenger


An **MVP** on
ANY FIELD



MT600E Series Tractors
MT645E | MT655E | MT665E | MT675E | MT685E



Challenger

A large yellow Challenger tractor is parked in a barn. The tractor is equipped with a large, red, multi-armed implement, likely a planter or harrow. The sun is shining brightly from the top left, creating a lens flare effect. The barn's wooden structure and roof are visible in the background. The sky is blue with some clouds.

When you farm in the world's most demanding environments, it takes a strong will and equally uncompromising equipment to get the job done. At AGCO, we understand this. So we designed an entire lineup of Challenger machines powerful enough to tackle the widest fields, steepest hills and tightest planting and harvesting windows. Take advantage of our leading-edge precision ag solutions to transform your operation with reduced input costs, greater efficiency and profitability. And behind every Challenger machine, you'll find an authorized dealer who's prepared to make downtime a thing of the past.



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The true WHEELS of PROGRESS

Why take the field, when you can dominate it? The new MT600E Series is built with even greater power, efficiency, productivity and comfort than the last one. The MT600E Series comes powered by the latest generation of AGCO POWER™ engines – packing a wider range of horsepower and torque. Like our other engines, we designed the AGCO POWER™ 84 solely for the demands of agricultural applications.

Five new MT600E models pack between 270 to 370 max engine HP and between 300 to 400 boosted HP with help from a sophisticated Engine Power Management (EPM). To keep those horses under control, we fitted an all new redesigned cooling package, increasing total efficiency and maximizing airflow to the radiator. Be more productive with a hydraulic system now pushing up to 54 gallons/minute. Last but not least, a new electronic front dash display with a setup and information screen (SIS) clearly puts you in charge with a 50% larger screen and higher resolution.



UP TO
370
MAX ENGINE HP



FIVE WAYS = to power = THROUGH

Regardless of the demands you face, we offer a powerhouse engine that can rise to the challenge. The MT600E Series tractors are born ready with an incredible range of horsepower options for the flexibility to take on any task. Choose from the most performance-driven wheeled tractors in the industry – five to be exact.

Model	Engine	Max Engine HP (kW)	PTO HP (kW)
MT645E	AGCO POWER 8.4L	270 (199)	205 (151)
MT655E	AGCO POWER 8.4L	295 (220)	225 (168)
MT665E	AGCO POWER 8.4L	320 (239)	250 (186)
MT675E	AGCO POWER 8.4L	350 (261)	275 (205)
MT685E	AGCO POWER 8.4L	370 (276)	290 (216)



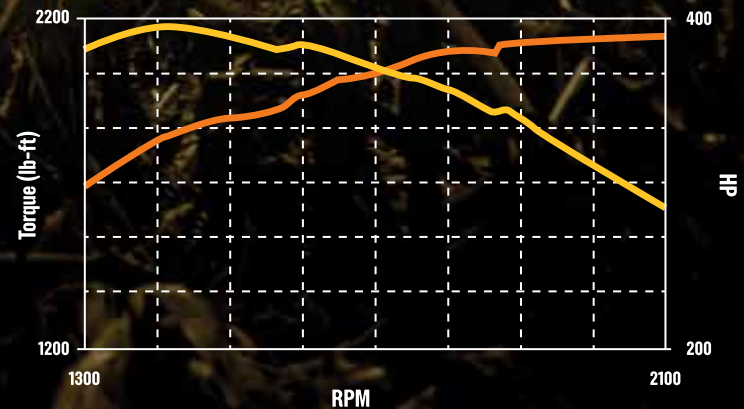
TORQUE that
NEVER RESTS

The new AGCO POWER™ engines found in the MT600E Series pack 8.4L of sheer low-end torque. Now with twin turbos, these six cylinder power plants generate greater engine response and big torque down low where it counts, delivering unmatched lugging ability and productivity.

What's the secret? AGCO POWER engines are specifically designed from the ground up for ag applications – not retrofitted from an on-highway engine. As a result, we deliver:

- Twin turbos provide unmatched engine response and high torque at all engine RPMs.
- Total fluid efficiency thanks to our innovative and simple SCR + cEGR design.
- No Diesel Particulate Filter (DPF) or costly regeneration process required.
- More time spent in the field thanks to 500 hour service intervals.
- Engine Power Management (EPM) will provide up to 30 additional HP increasing productivity and performance in demanding PTO, Hydraulic, or Transport applications.*

* Available when speed is above 0 MPH and when PTO or hydraulic demands are greater than 40 HP. Also gradually available when transporting at speeds above 9.3 MPH.



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

— Engine Power
— Engine Torque

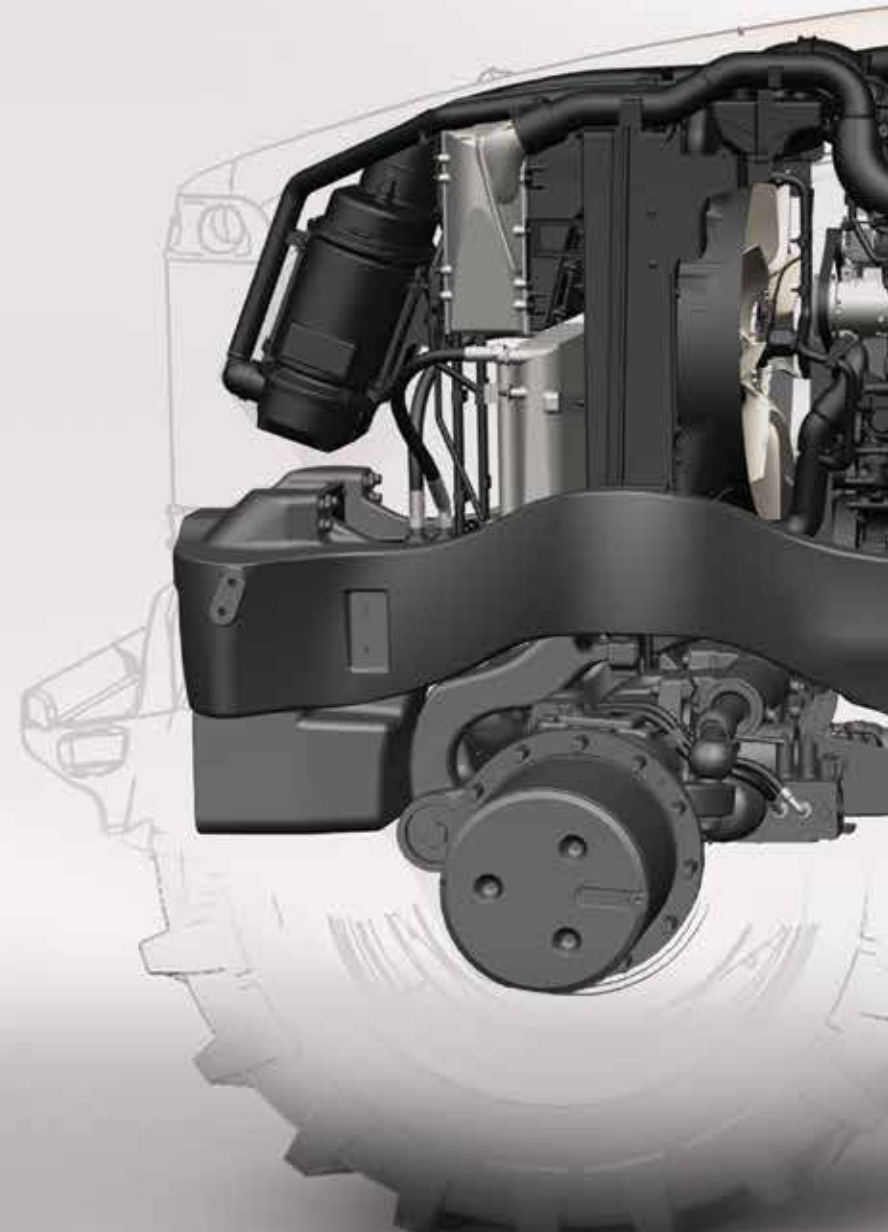
How the **TOUGH GETS GOING**

It's not enough to pack a serious punch – you also need to deliver it. Our engineers understand how important it is to apply power in the most efficient way possible. That's why we built the Challenger MT600E Series around an in-line drivetrain design for efficient transfer of power without using power-robbing drop boxes. With a more direct path from the engine to the transmission than our competitors', our drivetrain delivers maximum power to the ground.

As the world's first and only truly stepless transmission, our patented TechStar CVT brings simplicity, performance and efficient transfer of power to any job you give it. Our CVT is engineered by the pioneers of this technology, so it only makes sense that we perfected it.

Key CVT features:

- Infinite speed control without shifting or clutching delivers sustainable torque for maximum power and efficiency.
- Two continuously variable speed ranges provide field speeds up to 18 mph and transport speeds up to 31 mph.
- Power Management automatically controls the engine to operate at the most efficient RPM while providing constant ground speed to increase productivity and lower fuel consumption.
- Power Direction shuttle lever can be lifted in forward and reverse to keep tractor stationary on a slope.
- Dedicated CVT oil reservoir with 2,000-hour service interval eliminates cross contamination from auxiliary hydraulic applications.



The in-line positioning of our engine and transmission allows for a much simpler CVT design that does not require power-robbing drop boxes or clutch packs.

What
No clutch packs

Why
No friction material to deteriorate and contaminate oil

What
Independent hydraulic and CVT oil reservoirs


Why
No cross contamination for reduced wear on components

What
No drop boxes

Why
More direct power transfer putting maximum power to the ground

What
Smooth acceleration and precise speed control at any RPM

Why
Unmatched AGCO CVT Technology



UP TO
54
GAL/MIN
FLOW



Brutally smart HYDRAULICS

When it comes to hydraulics, Challenger knows that even a job well done has room for improvement. The MT600E Series makes it easier to get work done with a hydraulic system designed with a significantly bigger pump that provides a dedicated 54 gallons per minute (GPM) to the auxiliary SCVs.

The industry-exclusive hydraulic system in the Challenger M600E Series uses sophisticated hydraulic flow management to provide consistent flow that's unaffected by using other hydraulically-driven functions such as steering. Count on accurate seeding or tillage depth control with more stable and consistent flows from our new hydraulic system.

- New 54 gallons per minute hydraulic pump
- Up to 6 auxiliary remote valves
- Power Beyond ports are now standard

Cool under **ANY SITUATION**

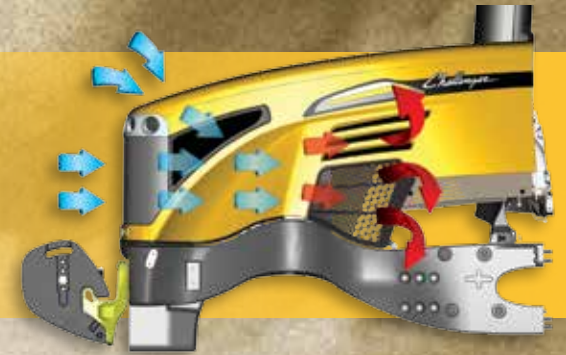
You know very well that farming can be a hot and dusty business. Unfortunately, both of these conditions work together to hold your machine's performance back. That's why we designed our MT600E Series with an all new CYCLAIR™ cooling package ready to handle the demands of any environment and the increased power under the hood. Here's how we did it:

- Airflow is improved with redesigned hood grill and additional vents on the side of the hood.
- A vortex design prior to the engine air filter minimizes dirt ingress so even the dustiest environments no longer need an aftermarket cleaner before the filter.
- New design accurately manages airflow to the intercooler increasing cooling capacity and total efficiency.
- A/C condenser has increased in size and capacity, cooling the operator with the same efficiency as the engine.

Our engineers improved cooling performance without increasing the size of the hood, so there's no impact on the turning radius or the operator's visibility. This efficient, compact design improves the performance of an already formidable package.



CYCLAIR dramatically increases cooling capacity through better airflow and higher efficiency components – without increasing the size of the cooling package. Maintaining a smaller footprint allows maximum operator visibility and turning ability.





Cab at YOUR COMMAND

There's no reason a machine as tough on the outside as the MT600E Series tractor can't also be soft where it counts. An unbelievably comfortable cab keeps the longest days from feeling that way. The largest cab in its class with an amazingly low interior sound rating offers panoramic 360-degree views and industry-leading comfort. A new B-pillar behind the driver is more handy to reach and offers outstanding ergonomics with a logical layout and easy to understand soft keys and buttons.

When it comes to keeping your eyes on the hard data, a new dashboard Setup & Information Screen (SIS) is very easy on the eyes. A 50% larger screen has ten times better resolution. Plus, settings that are easier to adjust and monitor make navigating your way through a day more natural than before. See real increases in performance as the line between man and machine blurs.



- ▲ Simple and easy to use new B-pillar with soft keys
- ▲ New dash display with larger SIS (Setup and Information Screens) with higher resolution color screen

EASY does it ALL

When it comes to staying up and running, the Challenger MT600E Series tractors perform as well at rest as in the field. Every pit stop is a breeze with an easy-to-open hood. From air filter to oil dipstick, it's all within reach. With a new two-plane design, the updated cooling package is simple to clean. There's no need to expand or unfold coolers – a quick once-over with an air wand removes debris.

Easy-to-access service points turn maintenance inspections into an easy routine instead of a time-consuming chore. Plus, longer service intervals equal reduced costs. You wear a lot of hats on your farm, and since one of them is mechanic, simple maintenance of the MT600E stays simple.



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





FUSE
TECHNOLOGIES

INCREASE YOUR YIELD

with precision technology

FUSE TECHNOLOGIES

AGCO's global precision farming initiative brings together and optimizes 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 maximizing 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 transfers vehicle data to your desktop, laptop or mobile device. AgCommand's GNSS (Global Navigation Satellite System) applications tell you where your machines are and what they're doing – putting you in complete control like never before.

- Easy access to info to help optimize performance
- Monitor service intervals and operating costs

Track your equipment and data from your smart devices



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, leaving the operator free to focus their attention on optimizing 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.

FUSE CONTACT CENTER

The Global Fuse Contact Center 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 1-877-525-4384.



Optional easy-to-use 12.5" color touchscreen

Downtime has MET ITS MATCH

Downtime, it's a farmer's worst enemy. That's why every Challenger tractor comes with a dealer network fully prepared to take it out of the picture. Count on us during critical planting, harvesting and spraying periods with emergency parts drops and extended hours. Maximize uptime with an industry-leading parts warranty and factory-trained technicians who work as hard at preventing problems as they do repairing them.

When you buy a Challenger tractor, you're buying more than a piece of farm equipment. You're buying the peace of mind that comes from a job well done, and a machine well built. Take a closer look at the MT600E Series at your local Challenger dealership, and you'll see that – down to the smallest detail – it's built to the highest standards.

DEALERS AND SERVICE: ABOVE AND BEYOND

For 365 days a year, day and night, under the most adverse conditions, our dealer network keeps North America's agribusiness in motion. Our dealers are second to none in on-location service. With more mobile service trucks loaded with more diagnostic equipment than most repair shops, it's little wonder the army of Challenger loyalists continues to grow. Around-the-clock quality service and support.

CHALLENGER FINANCING

Use AGCO Plus+ Commercial Customer Credit to make your finances run just as smoothly as your Challenger. Get all the solutions, support and flexibility you need to reach your goals. AGCO Plus+ gives you the ability to proactively manage your cash flow throughout the year, from handling an in-season repair to taking advantage of off-season preventative care.

 **24 HOURS/DAY**  **365 DAYS/YEAR**





PROTECH

**NOW OUR SERVICE
CONTRACTS COME
WITH MORE
HORSEPOWER**

Buy or lease any qualifying Challenger tractor or combine and get one of the following ProTech extended service contracts. Talk to your dealer today to learn more.

- 4-year/4,000-hour Powertrain Essential ESC with a \$250 deductible
- 2-year/2,000-hour Enhanced ESC Program with \$0 deductible, includes Travel Allowance Coverage



CHALLENGER MERCHANDISE

Visit us online at ShopChallenger.com for a complete showcase of all the best Challenger gear. Just like your farm, our site has seasonal changes so there's always something new.

PARTS that make the **FARM WHOLE**

POD: PARTS ON DEMAND

For growers who prefer to perform routine maintenance conveniently on their own farm, Parts On Demand makes the job easy. Get the parts you need when you need them. Rely on your dealer to provide a list of key parts to keep your Challenger up and running.



PM360: PREVENTATIVE MAINTENANCE PROGRAM

Reduce expensive and stressful repairs by completing preventative maintenance on a timetable that's convenient for you. AGCO Parts' PM360 Preventative Maintenance Program is there to help you head off problems before they begin. Your AGCO dealer will help you create a customized care plan to extend the life of all your equipment, for peace of mind and higher residual value on your equipment when it's time to trade up. PM360 also incorporates AGCO's warranty policy, which covers one year on parts and six months on labor for dealer-installed parts.

AGCO PARTS GENUINE CARE SERVICE AGREEMENT

For customized service agreements on key intervals, AGCO Parts Genuine Care Service Agreement is the turn-key program you need. Ask about it when you purchase equipment and simply wrap this groundbreaking benefit into the financing of your new machine.

MT600E Series

MT645E | MT655E | MT665E | MT675E | MT685E

MODELS	MT645E	MT655E	MT665E	MT675E	MT685E
ENGINE PERFORMANCE					
Maximum ISO engine HP @ 2,000 engine rpm (kW)	270 (199)	295 (220)	320 (239)	350 (261)	370 (276)
ISO engine HP @ 2,100 rated engine rpm (kW)	240 (177)	265 (198)	290 (216)	320 (239)	340 (254)
PTO HP @ 2,100 rated engine rpm (kW)	205 (151)	225 (168)	250 (186)	275 (205)	290 (216)
ENGINE					
Type	AGCO POWER 8.4L				
Number of Cylinders	6				
Displacement liters (CID)	8.4 (514)				
Aspiration	Twin Turbo Chargers with eWastegate				
ELECTRICAL SYSTEM					
Alternator / battery (standard)	240 amps / 12 V (twin 120 amp alternators)				
TRANSMISSION					
Type	Techstar CVT with Power Management (PM) 31 mph (50 kph)				
Field speed range	0.02 - 17 mph Forward and 0.02 - 10 mph Reverse (0.03 - 28 km/h Forward and 0.03 - 16 km/h Reverse)				
Road speed range	0.02 - 31 mph Forward and 0.02 - 24 mph Reverse (0.03 - 50 km/h Forward and 0.03 - 38 km/h Reverse)				
Road speed range - 40 kph -optional	Optional - 0.02 - 30 mph Forward and 0.02 - 24 mph Reverse (0.03 - 40 km/h Forward and 0.03 - 38 km/h Reverse)				
Speeds forward	Infinite				
Cruise control speeds	4				
REAR AXLE					
4.33 x 118 in. (110 x 2,999 mm) long axle	Standard				
4.33 x 105 in (110 x 2,550 mm) short axle	Optional				
Differential lock - full-locking, electrohydraulic	Standard				
FRONT AXLE					
4-wheel drive differential lock	Standard - Full-locking, Electro-hydraulic				
4-wheel drive maximum steering angle	55°				
HYDRAULICS					
System type	Closed Center Load Sensing (CCLS)				
Total flow rate - US standard gallon (L)	54 (205)				
Maximum pressure PSI (bar)	2,900 (200)				
Remote Valves - Standard/Optional	Standard: 4 fingertip controlled valves Optional: 2 additional fingertip controls for a total of 6 auxiliary valves				





MODELS	ALL MODELS
THREE POINT HITCH - REAR	
Category 3/4N Quick Hitch	Standard
Maximum lift capacity at Link Ends – lbs. (kg)	20,345 (9,228)
THREE POINT HITCH - FRONT (OPTIONAL)	
Category 3	Standard
Maximum lift capacity at Link Ends – lbs. (kg)	10,970 (4,976)
DRAWBAR	
Category 3 with drop pin	Standard
Category 3 heavy duty with drop pin	Optional
Category 4 with drop pin	Optional
PTO	
Speeds RPM – standard	1,000/1,000E
Shaft diameter in. (mm)	1.75 (45) shaft, 20 spline
OPERATOR AREA	
Cab glass area ft ² (m ²)	67.3 (6.22)
Noise level dB(A)	71
OptiRide Plus hydraulic suspended cab	Standard
Operator seat - air suspension	Standard
TMC Display	Standard
TECHNOLOGY	
Auto-Guide 3000	Standard
AgCommand	AgCommand-Ready Standard, Subscription Optional
DIMENSION & WEIGHT*	
Wheelbase – in. (mm)	122 (3,100)
Overall length-front wt. frame to rear link arms – in. (mm)	218.6 (5,552)
Maximum height over cab – in. (mm)	141 (3,584)
Approx. shipping weight – lbs. (kg)	23,810 (10,800)
Max Allowable Weight – lbs. (kg)	33,070 (15,000)
CAPACITY	
Fuel tank capacity US gallon (L)	166 (630)
DEF (AdBlue) usable tank capacity – US gallon (L)	15.8 (60)

* All dimensions measured with Dual 520/85R46 rear tires and 1480/70R34 front tires

BUILT ON LOCATION WHERE INNOVATION MEETS PRODUCTIVITY

The MT600E Series is made with pride in Jackson, MN, at the newly expanded plant that assembles all our high horsepower row crop tractors. It's where our sprayers, track and 4WD tractors have been made for farmers, by farmers, for many years.

You can even enjoy a tractor delivery experience we call Fresh Metal. When your new tractor is ready, you'll get a tour of our factory and Intivity Center—the first visitor welcome center of its kind in North America. Then you'll take delivery of your new MT600E, fresh off the line. We'll even have a factory representative on hand to acquaint you with its key features and operations.



Challenger[®]

MT600E Series Tractors

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Challenger[®] is a worldwide brand of AGCO Corporation.