

**CASE II**  
AGRICULTURE

**MAGNUM™ 180-225 SERIES TRACTORS**  
150 – 195 PTO HP



EVERY SINGLE DAY, YOU DEMAND MORE.  
MORE FROM THE LAND. MORE FROM YOURSELF.  
MORE FROM YOUR EQUIPMENT. WHICH IS WHY WE  
ALSO DEMAND MORE. MORE POWERFUL ENGINES.  
MORE PRODUCTIVITY-BOOSTING FEATURES. MORE  
APPROACHABLE AND KNOWLEDGEABLE CASE IH  
EXPERTS. AND WE DO ALL THIS TO BETTER SERVE  
YOU AND THE NEEDS OF YOUR OPERATION.

MAGNUM TRACTORS HAVE PROVIDED INDUSTRY  
LEADING POWER AND INNOVATION TO NORTH  
AMERICAN FARM OPERATIONS SINCE 1987. FOR  
TWO DECADES MAGNUM HAS STOOD FOR BEST-  
IN-CLASS CAB COMFORT, FUEL EFFICIENT POWER  
GROWTH, AND INCREASED PROFIT-PER-ACRE.  
DEMAND MORE PERFORMANCE AND EFFICIENCY  
IN YOUR OPERATION - DEMAND THE BEST WITH  
CASE IH MAGNUM TRACTORS.



# FOR THOSE WHO DEMAND MORE



<b>LEADING THE INDUSTRY</b>	<b>4</b>
<b>CAB ENVIRONMENT</b>	<b>6</b>
<b>CONTROLS</b>	<b>8</b>
<b>LIGHTING</b>	<b>9</b>
<b>ENGINE</b>	<b>10</b>
<b>CVT TRANSMISSION</b>	<b>12</b>
<b>POWERSHIFT TRANSMISSION</b>	<b>14</b>
<b>HITCH AND PTO</b>	<b>15</b>
<b>HYDRAULICS</b>	<b>16</b>
<b>FRONT AXLE</b>	<b>18</b>
<b>ADVANCED FARMING SYSTEMS</b>	<b>20</b>
<b>LOADERS</b>	<b>22</b>
<b>SERVICEABILITY</b>	<b>24</b>
<b>OUR SYSTEMS APPROACH</b>	<b>25</b>
<b>SPECIFICATIONS</b>	<b>26</b>

**Unparalleled Power.**

Power Boost up to 35 engine horsepower for transport or PTO work.

**Best Turning Radius.**

Sculpted front end allows a best-in-class 16-foot (4.9m) turning radius with typical row-crop tires.

**Productive Hitch & Hydraulics.**

Hydraulic pump flow of up to 40 gpm with more than 31 gpm available at an individual remote handles the most demanding implements including lift capacity up to 13,600 lbs.

**Field Proven Transmissions.**

Both 18x6 and new CVT transmissions have been proven in the field for performance and durability.



**Spacious Cab Comfort.**

Largest, quietest cab in its class with unsurpassed visibility and ergonomic MultiControl Armrest controls for a truly productive work environment.

**Convenient Maintenance.**

Ground-level central location for fluid checks and other service tasks means easy maintenance in less time.

► Magnum tractors have been proudly built at the **Racine, Wisconsin Manufacturing plant** since the original 7100 Series in 1987.



# LEADING THE INDUSTRY

## EFFICIENT POWER. PRODUCTIVE COMFORT.

SINCE THE FIRST 7100 SERIES WAS LAUNCHED IN 1987, CASE IH MAGNUM TRACTORS HAVE CONTINUED TO SET INDUSTRY BENCHMARKS FOR CAB COMFORT, EASE OF OPERATION, AND POWER TO THE GROUND.

Power and innovation have been Magnum series trademarks. From their durable engine and powershift transmission, to the most roomy and comfortable cab in the industry, Magnum tractors have continued to raise the bar on productivity. Built in Racine, Wisconsin, on the same assembly line as the high-horsepower Magnum tractors, the new Magnum 180, 190, 210 and 225 have the spacious, industry leading 109-cubic foot Surveyor cab used on the higher-horsepower Magnum models and ride on the same 118-inch wheelbase. Together, these features provide the outstanding operator comfort and ergonomic controls valued by Magnum tractor owners, along with a lighter overall footprint for optimal weight-to-power ratio and superior fuel efficiency in this new entry-level Magnum class.

Model	Engine	PTO HP	Transmission
180	6.75 L	150 hp	FPS/CVT
190	6.75 L	165 hp	FPS/CVT
210	6.75 L	180 hp	FPS/CVT
225	6.75 L	195 hp	CVT

### Advanced Farming Systems.

Integrated technology like CAN-bus electronics and the AFS AccuGuide Auto-Guidance System means less fatigue, more accurate fieldwork and lower input costs. Complete autoguidance available factory-installed.



**CASE IH**  
AGRICULTURE

Racine Plant  
ISO 9001:2000

**AE50**   
outstanding innovations

The mid-range Magnum tractor has been awarded the AE50 award for 2009. The AE50 is a prestigious award sponsored by the American Society of Agricultural and Biological Engineers celebrating significant developments in agriculture.

**New Suspended Cab option** cushions you from shock loads for a more comfortable day in the field.

**Automatic temperature control** lets you preselect the perfect temperature without the need for constant adjustment, for continuous comfort throughout the day and night.

**Narrow steering console** for excellent visibility to the ground and your crop.

▼ **A-Post instrument cluster with optional performance monitor** tracks important functions and data for convenient at-a-glance monitoring.



# CAB ENVIRONMENT

## MORE VISIBILITY. MORE COMFORT.

INDUSTRY LEADING CAB PROVIDES VISIBILITY,  
COMFORT AND PRODUCTIVITY.

Input from top North American producers contributed to the design of the spacious and comfortable Magnum cab. At 109 cubic feet (3.1 m<sup>3</sup>) of cab volume and 68 square feet (6.3m<sup>2</sup>) of glass, you won't feel cramped or crowded during long days in the field. The Surveyor cab delivers plenty of legroom and storage space, plus 360-degree panoramic visibility. Equipped with a factory-installed AccuGuide option, you'll especially appreciate this extra cab space as you experience the added freedom to multi-task during long days in the cab.



▲ The **AFS Pro 600 color display** (optional) makes tractor performance information even more accessible. This customizable display allows you to decide exactly which tractor operating information and AFS AccuGuide controls you want to see and record based on your individual operation.

◀ **Seat upgrade options** include red leather bucket and instructional seat, and a Positive Response Suspension system that automatically adjusts the seat shock absorber up to 500 times per second for smooth ride over the roughest terrain.

◀ Both the **deluxe and luxury Optima seats** are fully adjustable in every way, including ride firmness, lumbar support, float isolators, swivel, back-rest angle, left armrest height and tilt – even the standard seat heating system is adjustable.

# CONTROLS

▼ The **instrument cluster** located in the right-hand cab corner 'A-post' is positioned in your natural field of vision and displays important status information at-a-glance.

## EFFORTLESS CONTROL. LESS FATIGUE.

ERGONOMIC ARMREST CONTROLS AND  
CORNER-POST INFORMATION AT-A-GLANCE  
BOOST YOUR PRODUCTIVITY DAY AFTER DAY.

Right hand shuttle  
forward/reverse

Up-shift/down-shift

Rear hitch raise/lower

**Integrated joystick** allows operation of either a rear hydraulic remote, or an optional mid-mount loader valve, including a rocker switch for live third function such as grapple.

**Hydraulic remote levers and timer adjustment** within easy reach.

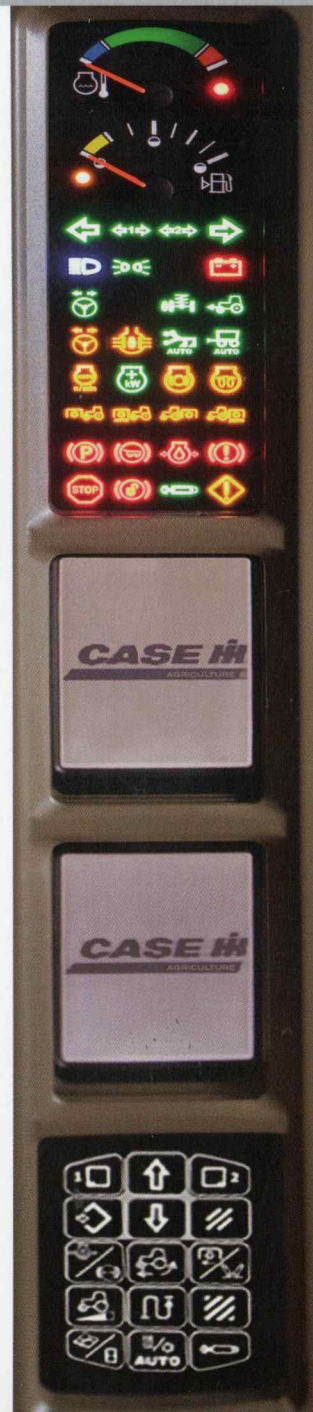
**Ergonomic wrist rest** makes easy work of repetitive hydraulic tasks.

Hydraulic remote  
extend/retract

**PTO switch** is easily accessible.

**Electronic End-of-Row** is easy to use and allows you to record a combined sequence of up/down shifting, engine speed, hydraulic remote valve control, hitch raise/lower, MFD on/off and differential lock on/off. Perform all your end-of-row functions automatically by pressing just one switch.

**The new MultiControl armrest** represents the latest generation of Case IH controls and is integrated to move with the seat as it is adjusted. Your arm rests on a padded cushion with easy access to most controls including the integrated gear/throttle lever, ergonomically designed for long days in the field. The control handle puts six different tractor functions ◀ literally at your fingertips.



▼ Optional **High Intensity Discharge** work lighting can be installed between the front headlights, as well as in the rear fender area, to deliver ultimate night visibility.

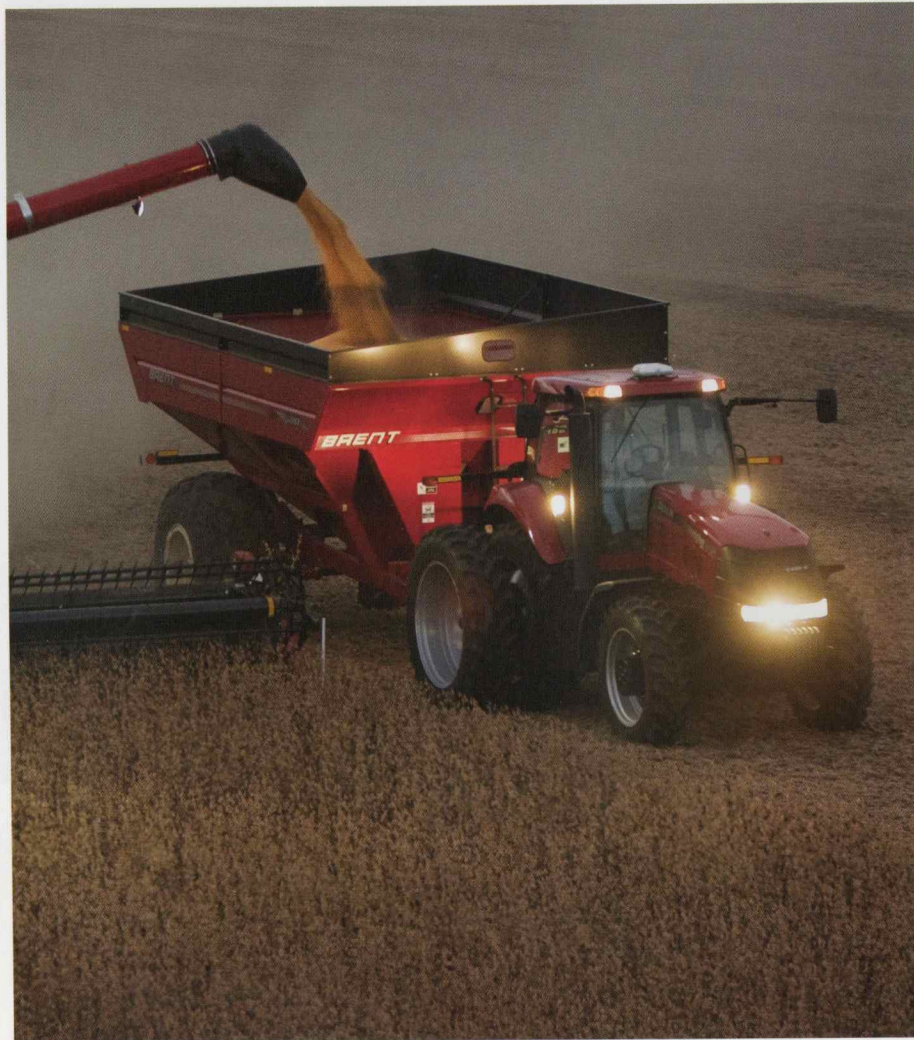


## SUPERIOR LIGHTING. 24/7 PRODUCTIVITY.

LIGHT UP YOUR FIELDS WITH MAGNUM'S  
360-DEGREE VISIBILITY AFTER DARK.

With excellent visibility all around the tractor, you can operate with greater confidence as well as added safety. Through the panoramic cab glass, you have clear sight lines to the tires, crop, and implement that help you get the most out of your tractor in a day's time. When late hours are what it takes to get the job done, the Magnum tractor is well-equipped to provide you with that same level of superior visibility, even after dark. Take your pick of lighting packages including standard halogen along with optional High-Intensity-Discharge (HID) lighting technology.

**Optional 360-degree lighting package** lights up the night with 3 front-grill HID lamps and 2 rear-fender HID lamps in place of the standard worklights, 2 additional grab-rail mounted front halogen worklights, and 6 additional halogen lights positioned around the entire cab roof top including left and right sides.



**Electronic injector control** on the power stroke regulates injection flow and timing while maintaining rail pressure.

Clean engine combustion produces fewer contaminants to enable an extended **600-hour engine oil/filter service interval**, reducing maintenance time and costs.

▼ **Four valves per cylinder** and **direct-flow port technology** provide optimal performance at lower engine speeds with low engine emissions.

Rated for up to **100% biodiesel blend (B100)** when approved Case IH maintenance procedures are followed.



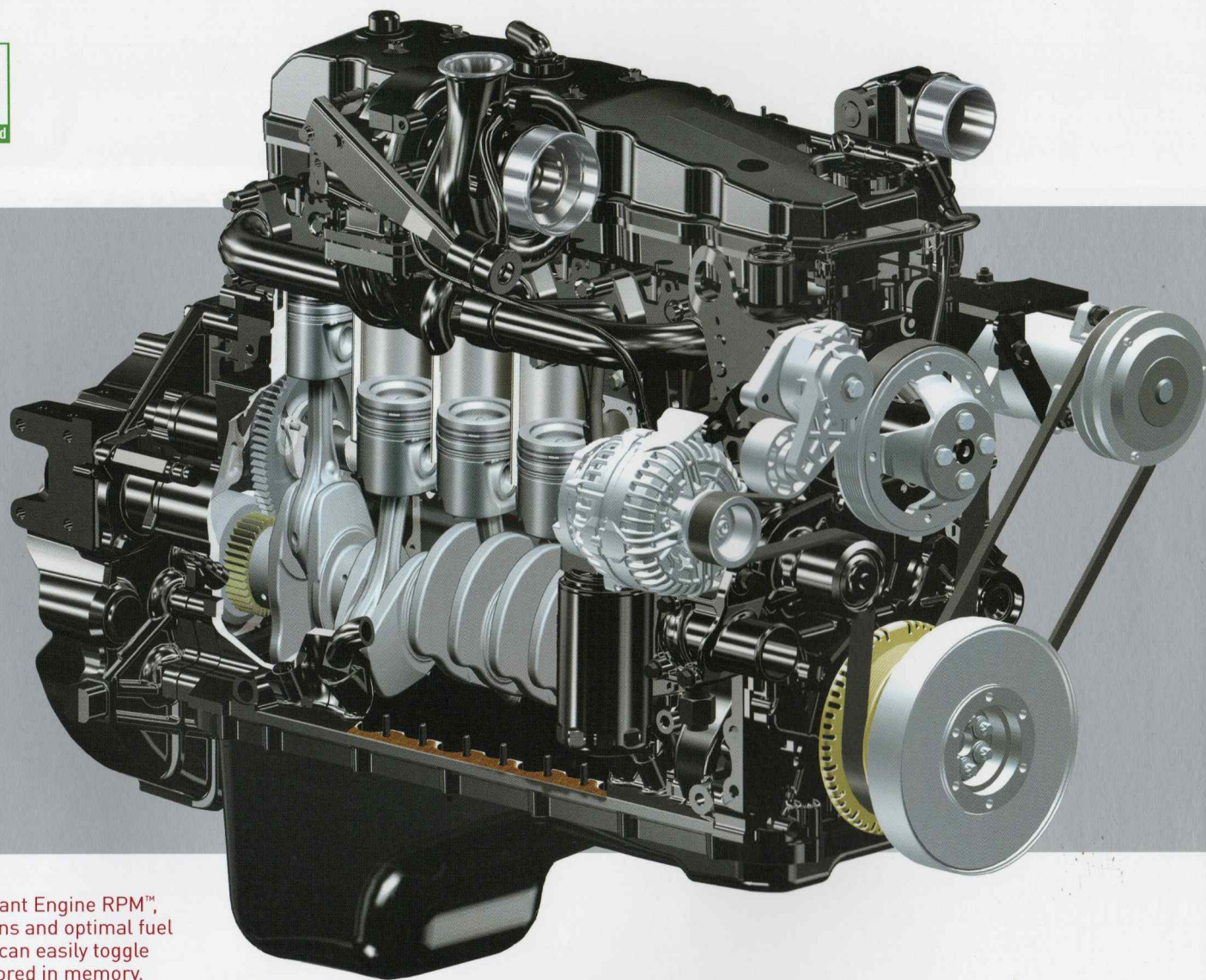
► The **common-rail fuel system** delivers pressure independent of engine speed so torque increases at lower engine speeds. High pressure available in the rail provides improved response to sudden load changes.

► **Viscous-type fan** automatically adjusts for optimum cooling and saves power when not in use for enhanced engine efficiency and fuel savings.

► **Case IH Tier 3- 6.75L engine**, with electronic high-pressure common-rail fuel system, delivers fuel-efficient power up to 180 PTO horsepower to handle your toughest jobs

**Constant Engine Speed** mode delivers Constant Engine RPM™, regardless of load variation, for PTO operations and optimal fuel economy in many applications. The operator can easily toggle between two programmable RPM settings stored in memory.

**Air-to-air aftercooling system** cools compressed air from the turbocharger, reducing the temperature by 50 percent and increasing the air density for enhanced power output and reduced emissions.



## FUEL SAVINGS. DURABLE PERFORMANCE.

THE NEW-GENERATION CASE IH 6.75L ENGINE FEATURES OUTSTANDING FUEL ECONOMY AND LONG-LASTING DURABILITY.

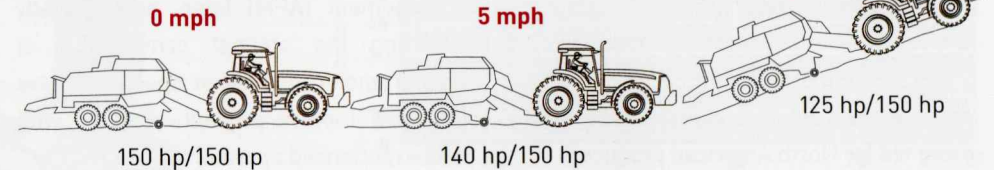
With a proven track record in both Puma™ Series tractors and Case® construction equipment, this family of quiet, fuel-efficient engines reaches new levels of performance. Leading the list of new engine features is an electronically managed 24-valve high-pressure common-rail fuel system for up to 4 percent improved fuel consumption over previous models in this horsepower class. The 6.75L clean-burning power plant delivers 150, 165, 180 and 195 PTO horsepower, depending on the model. Power Boost of up to 35 additional engine horsepower is also available during mobile PTO, hydraulic and transport operations.

New engine technology provides better performance, low emissions and greatly reduced noise levels. The result is more efficient operation with greater durability and reliability.

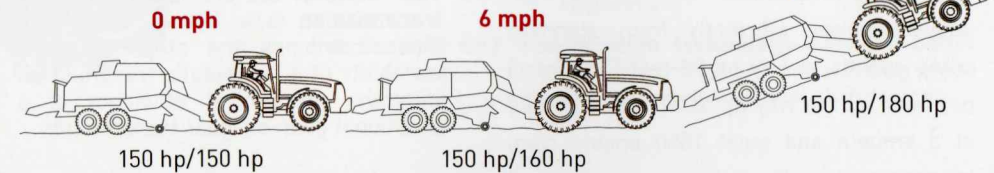
### POWER MANAGEMENT

#### Hp to Implement/Hp from Tractor

##### Without Power Boost

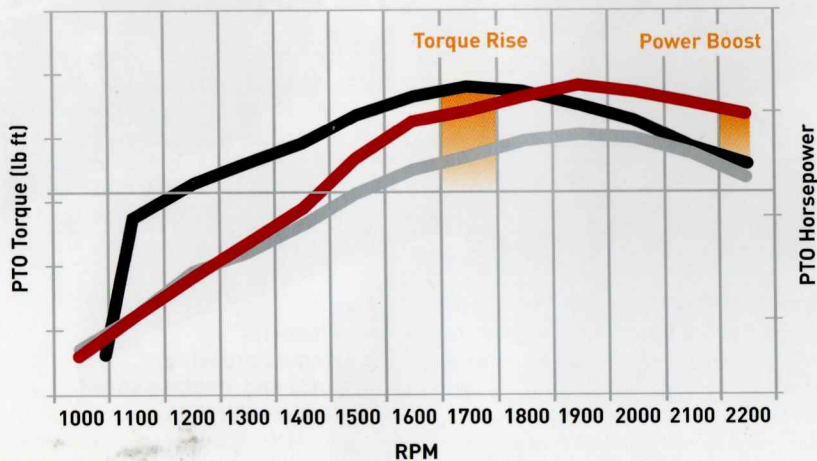


##### With Power Boost



### MAGNUM 180-225 SERIES POWER

Boosted Torque Rise    Unboosted Power    Boosted Power



◀ **Power Boost** of up to 35 engine horsepower is available during transport and PTO operations. This burst of power helps the operator tackle tough crop conditions or steep grades without losing speed or productivity. The excellent Magnum torque rise provides the power curve to get you through tough conditions. It also allows you to shift up and throttle down to save fuel.

# CONTINUOUSLY VARIABLE TRANSMISSION (CVT) FOR CONTINUOUS PRODUCTIVITY & FUEL SAVINGS

ADVANCED CVT OPTION PROVIDES THE ULTIMATE IN SMOOTH, STEPLESS SHIFTING —  
ALONG WITH EASY-TO-USE CONTROLS AND OUTSTANDING EFFICIENCY.

Backed by more than a decade of European engineering experience with CVT transmission technology, Case IH Magnum Series introduces a new-generation CVT transmission that raises the bar in mechanical efficiency and intuitive controls, specifically designed for North American producers.

The hydro-mechanical CVT drive train delivers power efficiently from standard creep speeds as low as 98-feet (30 meter) per hour all the way up to 31 mph (50 kph) at a smooth and quiet 1550 engine rpm. In economy mode, a transport speed of 25 mph (40 kph) is typically achieved at a fuel-saving 1450 rpm. Maximum reverse speed of up to 18.5 mph (30 kph) allows top productivity in applications such as loader work.

Even when the tractor is at a standstill, the CVT transmission is still in control. The ActiveStop feature holds the tractor and load perfectly stationary, even on a steep incline, and allows implement hook-ups without using the clutch and brakes.

Magnum CVT tractors employ the Diesel Saver™ Automatic Productivity Management (APM) logic, automatically selecting the optimal combination of engine and transmission speeds to save fuel and improve productivity, even with less experienced operators.

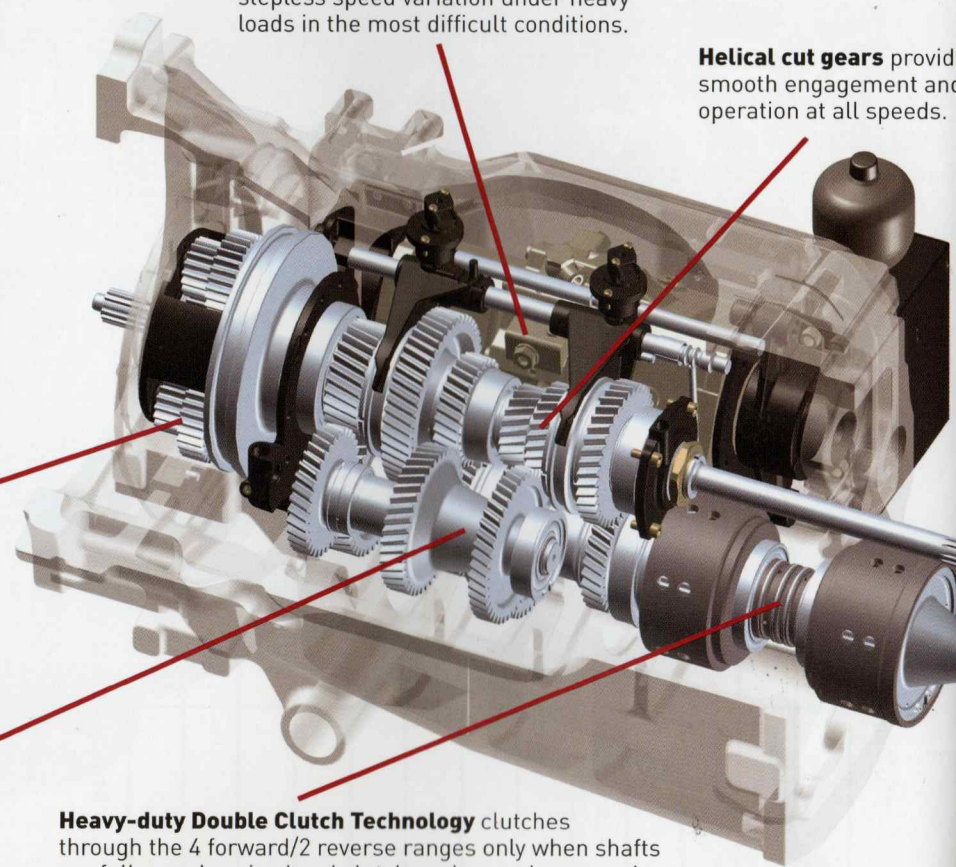
► **The state-of-the-art Case IH CVT transmission** is a 'hybrid' drive train that combines the stepless speed variability of a hydrostatic transmission with the mechanical efficiency of a traditional gear-on-gear transmission.

**A compound planetary gear set** allows the hydraulic motor to vary the input speed into the powershift (or mechanical) portion of the transmission — for seamless, infinite speed variability and top efficiency.

**Four mechanical forward and two reverse gears** carry the bulk of the load throughout the tractor's operating speed range, allowing a higher level of efficiency than many "infinitely variable" tractors.

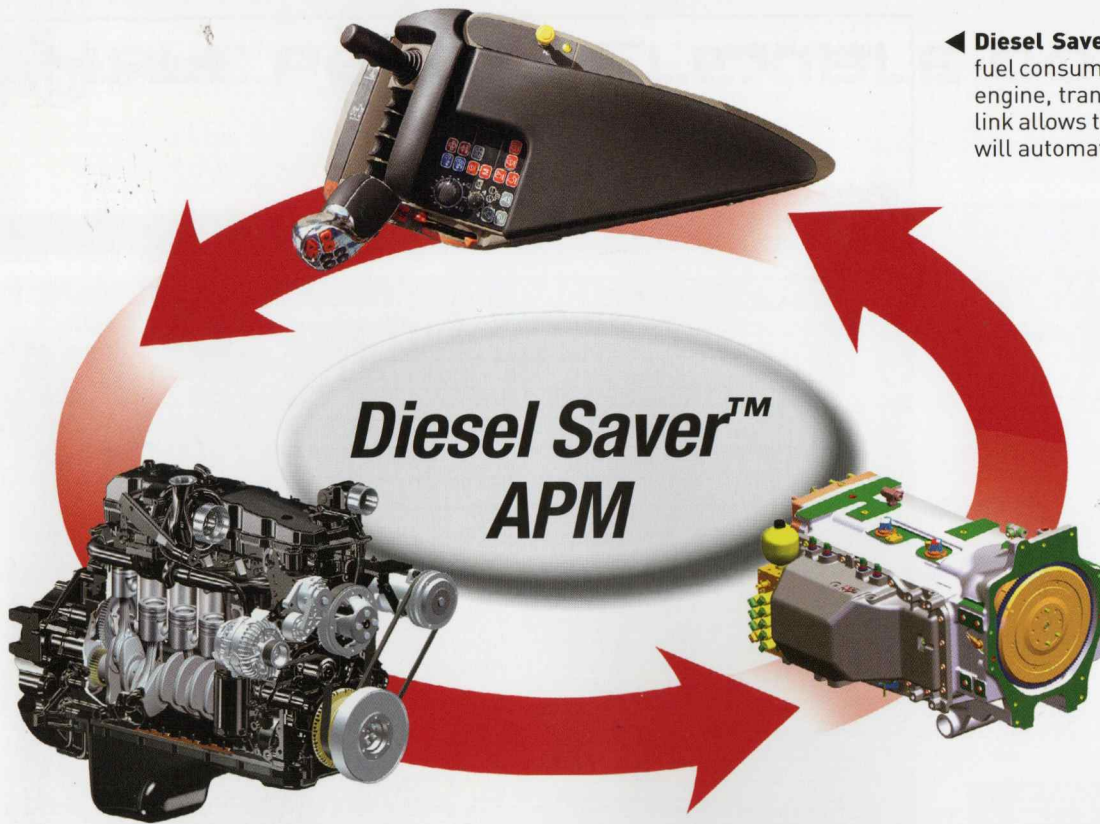
**High-capacity hydro pump** allows stepless speed variation under heavy loads in the most difficult conditions.

**Helical cut gears** provide smooth engagement and operation at all speeds.

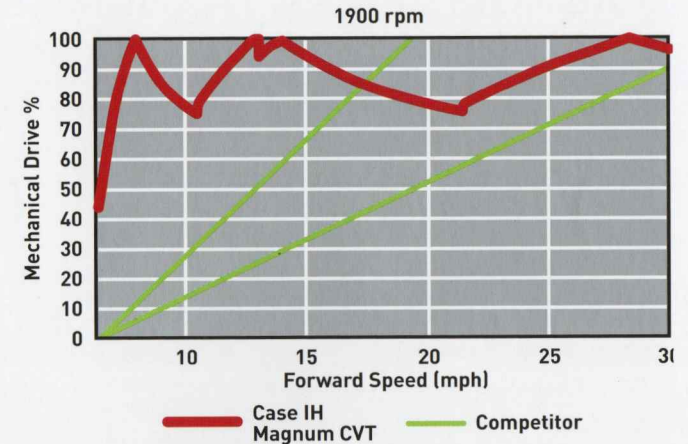


**Heavy-duty Double Clutch Technology** clutches through the 4 forward/2 reverse ranges only when shafts are fully synchronized and clutch packs reach an equal pressure. This provides industry-leading, smooth performance and stepless speed changes for extremely smooth shifting and outstanding durability.

# CVT TRANSMISSION

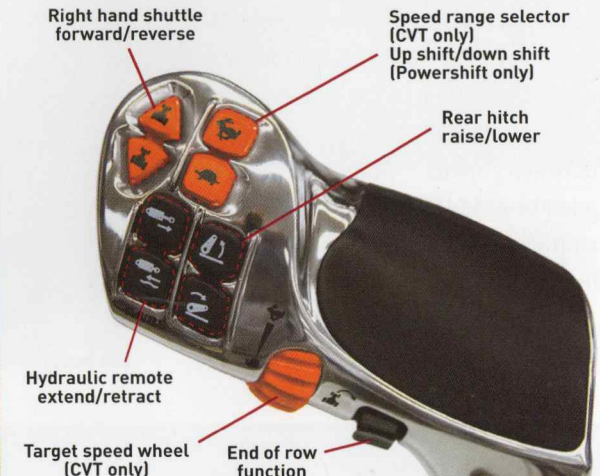


◀ **Diesel Saver™ Automatic Productivity Management (APM)** benefits you by reducing fuel consumption, increasing productivity and operator comfort. It links electronically the engine, transmission, PTO, and hitch to the MultiControl armrest and foot throttle. This link allows the operator to simply select the desired working speed, and the APM system will automatically achieve the optimal balance of fuel efficiency and productivity.



▲ **Case IH CVT transmission technology** provides better mechanical efficiency in the critical 2-8 mph working speed range than competitive "infinitely variable" CVT designs.

► **CVT transmission** operates from 0 to 31 mph [0 to 50 kph] while Diesel Saver™ APM automatically reduces fuel consumption. Active Stop technology holds the tractor stationary on a slope without applying brakes.



# POWERSHIFT TRANSMISSION

▼ The simple-to-operate **Autoshift** works in both field and road gears to provide automatic shifting based on load for increased productivity and fuel savings.

## MAXIMUM SPEED. LESS EFFORT.

MAGNUM SERIES TRANSMISSIONS DELIVER ENHANCED FUEL ECONOMY, LOWER OPERATING COSTS, QUIETER OPERATION AND EXCEPTIONAL SHIFT QUALITY.

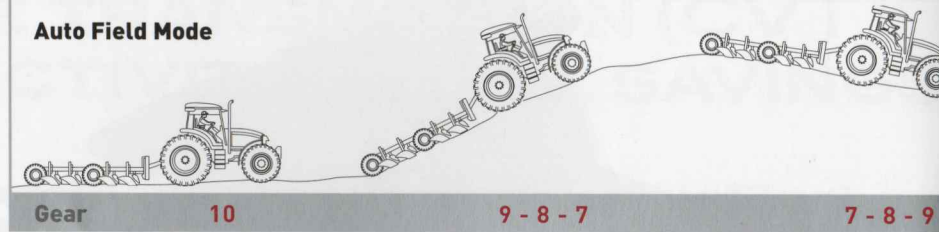
Full powershift transmission with standard Autoshift allows top performance and efficiency with minimal effort. Enhanced clutch modulation with adaptive transmission controller software makes for easy operation and outstanding shift quality.

Magnum tractors ordered with the 19-speed powershift transmission gain an extra measure of efficiency with the 19th gear serving as either an economy road gear at reduced RPM, or 30 mph (50 kph) for faster trips between fields. Standard Autoshift adds to productivity with an automatic shifting feature based on load, in the field and during transport.

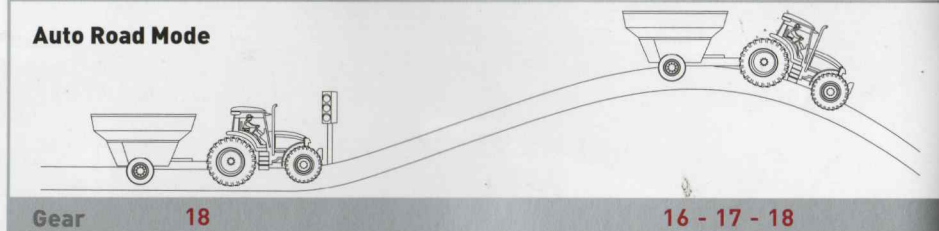
▼ Magnum tractors are standard with a **steering column-mounted Power Shuttle lever**, providing smooth direction changes along with an integrated electronic park brake. Right-hand shuttle switch in the MultiControl handle is also standard, so you can shuttle with either hand according to preference or application.



Auto Field Mode



Auto Road Mode



## AMPLE POWER. FLEXIBLE CONTROL.

The powerful Magnum 180-225 Series tractor hitch and PTO system provide versatility and the capacity to handle a range of large mounted implements for maximum lift and convenient operation. Hefty standard three-point lift capacity can be boosted with a high-lift option to tackle even higher-load implement challenges.

Operator convenience is enhanced with both in-cab PTO controls and a new fender-mounted switch.



**Three interchangeable, independent PTO shafts** provide power to any implements. Shafts included: 1-3/8" 540 RPM, 1-3/8" 1000 RPM, and 1-3/4" 1000 RPM.

**Standard soft-start PTO** provides smooth start-up, even with high-torque equipment and high-inertia loads to minimize stress on implement drivelines.

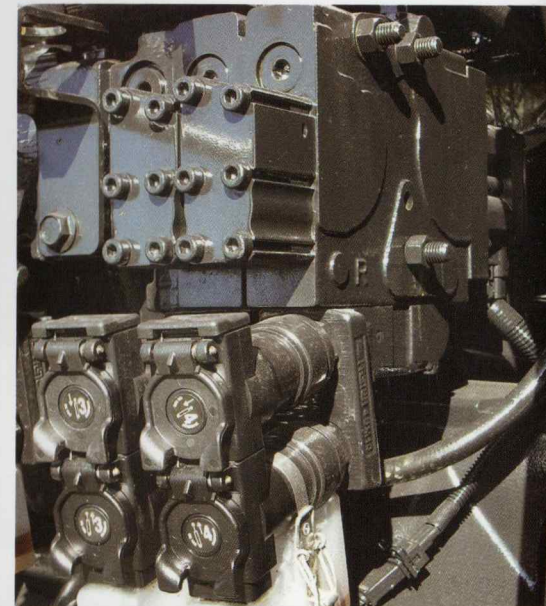
# ON-DEMAND PRESSURE. RESPONSIVE CONTROL.

A POWERFUL PRESSURE FLOW COMPENSATING (PFC) HYDRAULIC SYSTEM ENSURES RESPONSIVE IMPLEMENT CONTROL.

Advanced Hydraulics rely on a PFC design with up to five electro-hydraulic remote valves. It ensures high capacity, quick responses, and a pump capacity of up to 40 gpm (150L/m), with more than 31 gpm (120L/m) at an individual remote - providing you the flexibility to simultaneously perform several functions without sacrificing performance. Programmable valve timer lets you set engagement times right from the MultiControl Armrest.



▼ **Three hydraulic remotes are standard** with up to five optional. An optional hydraulic trailer brake is available for use with implements that include an independent braking system, such as heavy slurry or grain tanks.



► Convenient **selectable detent settings** are standard on electro hydraulic remotes for easy operation. Detent settings can be changed according to application requirements such as orbital motors, cylinder kick outs, or loader operation.

▼ **Optional joystick integrated in the MultiControl Armrest** can be used to simultaneously operate three live mid-mount loader valves or control can be redirected to operate three rear remote valves.



▼ **Front suspended axle option** increases your comfort, along with traction in the field for more power to the ground.



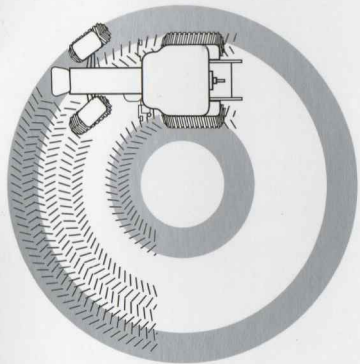
## TIGHT TURNS. POWER TO THE GROUND.

FRONT AXLE OPTIONS PROVIDE INDUSTRY-BEST END-OF-ROW TURNS AND SUPERIOR TRACTION THROUGH THE FIELD.

The industry leading turning radius stems from the Magnum tractor's sculpted hood that allows more clearance for the front tires. Magnum tractors turn around in just 16 ft. (4.9 m) with standard 380/85R34 front tires, which is 2 feet better than the closest in-class competitor. This allows you to turn back into 12 rows on 30-inch spacing with all axle configurations on true 60-inch tread settings.

Unlike competitive designs, the optional Magnum suspended MFD axle improves the ride quality, tractor stability and traction efficiency without sacrificing tread setting and maneuverability. It provides constant power to the ground by maintaining ground contact pressure in uneven terrain.

▼ **Sculpted front end** allows Magnum tractors to make the tightest headland turns in the industry at 16-feet with typical row crop tires.



▲ The **suspended beam front axle design** provides all the advantages of an independent link suspension with less complexity – fewer moving parts and simple controls. With 4.4-inch (112 mm) travel and 6-degree oscillation, it hydraulically handles bumps and dips to smooth out your ride.



**AFS**

Magnum Tractors take the growing popularity of automatic guidance to the next level by offering **AFS AccuGuide** as a complete factory installed option.

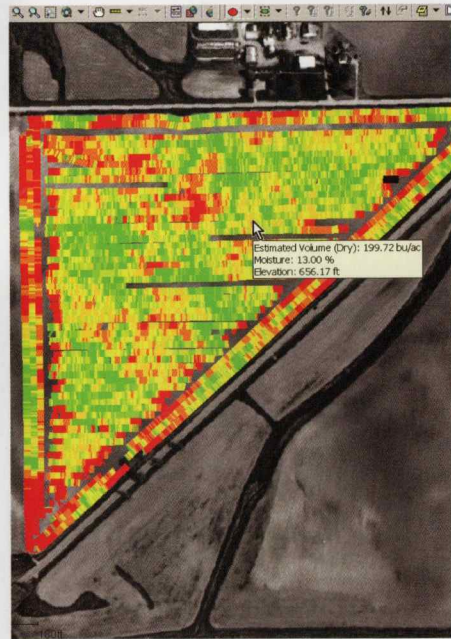


# ADVANCED FARMING SYSTEMS

## PRECISE. PRODUCTIVE. PORTABLE.

AFS ACCUGUIDE™ SYSTEM ELIMINATES THE NEED TO STEER IN OPEN FIELDS. THE PORTABLE AFS PRO 600 DISPLAY, NAVIGATION II CONTROLLER, AND AFS 262 RECEIVER MOVE EASILY AMONG EQUIPMENT.

Case IH Advanced Farming Systems (AFS) equipment fully integrates cutting-edge precision farming components for every operation. With features like sub-inch repeatable auto-guidance accuracy, yield and moisture mapping, as applied and prescription planting, the AFS system helps you maximize productivity for optimal crop yields.



## AFS DESKTOP SOFTWARE

AFS desktop software enables you to layer yield and moisture maps on top of aerial photographs along with precision farming information including: Trimble®, Ag Leader Technology® and GreenStar® proprietary systems. Customizable charts, graphs and layered maps can be derived for analysis of variety/hybrid, plant population, and soil topography. Dimensions and field-to-field yields can also be used for year-over-year comparisons.

## HOW ACCURATE IS DGPS & RTK GPS?

- Case IH RTK +/- 1 in.
  - 1 in. repeatable
  - 1 in. pass to pass
- OmniSTAR® HP +/- 4 in.
  - 2-4 in. pass to pass
- OmniSTAR XP +/- 8 in.
  - 3-5 in. pass to pass
- WAAS +/- 3 ft.
  - 6-12 in. pass to pass
- Autonomous GPS 15-45 ft.
  - Hiking, boating, vehicle tracking



## The AFS AccuGuide System:

- Saves input costs by reducing skips and overlaps.
- Eliminates the guesswork of row swath spacing to ensure each swath is identical, reducing tight headland turns and overlaps.
- Maintains perfectly straight and repeatable rows with RTK accuracy.
- Allows data storage for later analysis and benchmarking to maximize input investments.
- Controls traffic patterns and decreases compaction resulting in higher yields and larger profits.
- Reduces operator stress and fatigue.

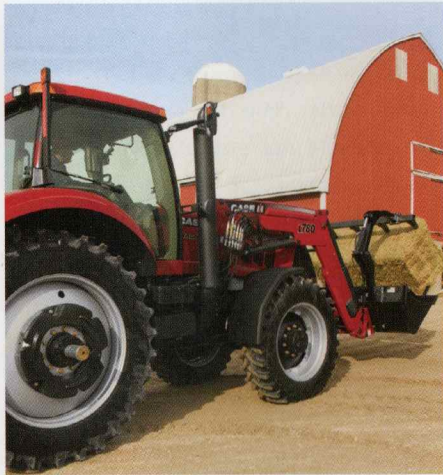
THE L780 SERIES LOADERS AND MAGNUM SERIES TRACTORS ARE A PERFECT MATCH FOR OUTSTANDING LOAD VISIBILITY, EXCEPTIONAL LOAD HANDLING AND THE CAPACITY TO HANDLE LARGE LOADS.



The new L780 Series loaders feature tough construction to match the power of Magnum 180-225 Series tractors for heavy-duty loader work. Magnum 180-225 Series tractors can be ordered with factory-installed mid-mount valves and fingertip joystick controls for more productive loader work.

This exceptional material handling system offers more than 70 loader attachments, with a versatile selection of options for bale handling, pallet forks and many other tasks.

## LARGER LOADS. EASIER HANDLING.



▼ The optional ergonomic two- or three function **electro-hydraulic joystick** is located on the seat-mounted armrest within easy reach.



### L780 CASE IH FRONT LOADER

#### Standard features Case IH Magnum Series Loaders\*

Quick-attach design

4-bar bucket linkage

Bucket-level indicator

Parking stand

Specifications*	L780 Loader
Lift capacity at maximum height*	5,250 lb. (2381 kg)
Lift capacity at maximum height at pins	5,950 lb. (2699 kg)
Breakout force	7000 lb. (3175 kg)
Maximum lift height	187 in. (4.74 m)
Maximum lift height under level bucket	175 in. (4.44 m)
Clearance with bucket dumped	150 in. (3.81 m)
Reach at maximum lift height	7 in. (0.177 m)
Maximum dump angle	57°
Reach at ground line	109 in. (2.76 m)
Bucket rollback angle	38°
Digging depth	6 in. (152 mm)
Optional mechanical leveling system	Yes
Raising time	3.4 seconds
Lowering time	2.7 seconds
Bucket dump time	1.8 seconds
Bucket rollback time	1.8 seconds
Approx. weight without bucket	1,780 lb. (807 kg)
Mounting time – boom to tractor	90 seconds
Mounting time – implement to loader	10 seconds

\*Measured at 31.5 inches (800 mm) ahead of pin. Note: Loader specifications may vary based on tractor model, hydraulic system, tire size, etc.



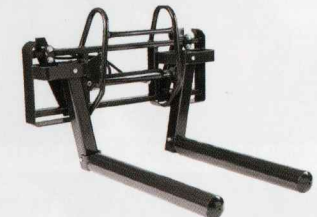
Multi-Use Fork



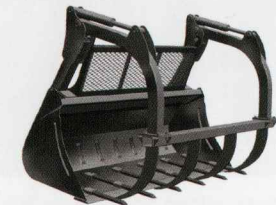
Pallet Fork



Quick-Attach Material Bucket



HD Round or Square Plastic Wrap Bale Grip



HD Round Bale King Bucket and Grapple

SPECIFICATIONS	MAGNUM 180	MAGNUM 190	MAGNUM 210
<b>ENGINE</b>			
PTO Horsepower at Rated RPM	150 PTO hp @ 2200 RPM	165 PTO hp @ 2200 RPM	180 PTO hp @ 2200 RPM
Engine Power Boost*	35 engine HP*	31 engine HP*	19 engine HP*
Cylinders / Displacement / Number of valves	6 / 415 cu. in. (6.75 L) / 24	6 / 415 cu. in. (6.75 L) / 24	6 / 415 cu. in. (6.75 L) / 24
Aspiration	Turbocharged / Intercooled	Turbocharged / Intercooled	Turbocharged / Intercooled
Bio-Diesel Fuel	Up to 100% (B100)**	Up to 100% (B100)**	Up to 100% (B100)**
<b>ELECTRICAL</b>			
Alternator Standard / Optional	150 / 200 amp	150 / 200 amp	150 / 200 amp
<b>TRANSMISSION</b>			
18 speed full power shift 18Fx6R	Optional	Optional	Optional
19 speed full power shift 19Fx6R with 19th Economy Gear (25 mph/40 kph)	Standard	Standard	Standard
19 speed full power shift 19Fx6R (30 mph/50 kph)	Optional	Optional	Optional
Creep speeds	Dealer-Installed Option	Dealer-Installed Option	Dealer-Installed Option
PTO (interchangeable shafts)	540/1000 rpm 1-3/8 in. (35 mm) shafts, and 1000 rpm 1-3/4 in. (44 mm) shaft	540/1000 rpm 1-3/8 in. (35 mm) shafts, and 1000 rpm 1-3/4 in. (44 mm) shaft	540/1000 rpm 1-3/8 in. (35 mm) shafts, and 1000 rpm 1-3/4 in. (44 mm) shaft
<b>AXLES</b>			
Standard rear diameter	4-1/8 in. (105 mm)	4-1/8 in. (105 mm)	4-1/8 in. (105 mm)
Rear axle length - Standard / Optional	119 in. (3020 mm) / 112 in. (2485 mm)	119 in. (3020 mm) / 112 in. (2485 mm)	119 in. (3020 mm) / 112 in. (2485 mm)
Suspended Front Axle	Optional	Optional	Optional
MFD Tread Adjustability	60 - 88 in. (1524-2235 mm)	60 - 88 in. (1524-2235 mm)	60 - 88 in. (1524-2235 mm)
Wheelbase (MFD)	118.3 in. (3005 mm)	118.3 in. (3005 mm)	118.3 in. (3005 mm)
Turning Radius***	16 ft.	16 ft.	16 ft.
<b>HYDRAULICS</b>			
Hydraulic Type	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)
Remotes - Standard / Optional	3/4/5 Electro-hydraulic	3/4/5 Electro-hydraulic	3/4/5 Electro-hydraulic
Main / Implement Pump Flow	35.7 gpm (135 L/min)	35.7 gpm (135 L/min)	35.7 gpm (135 L/min)
Available Flow at Individual Hydraulic Remote Valve	31.7 gpm (120 L/min)	31.7 gpm (120 L/min)	31.7 gpm (120 L/min)
3-point Hitch Category	Cat II/IIIN	Cat II/IIIN	Cat II/IIIN
Hitch Lift Capacity - Standard / Optional	10,900 lbs. (4944 kg) / 13,600 lb. (6168 kg)	10,900 lbs. (4944 kg) / 13,600 lb. (6168 kg)	10,900 lbs. (4944 kg) / 13,600 lb. (6168 kg)
Mid-Mount Valve - Optional	2 or 3 function	2 or 3 function	2 or 3 function
<b>CAPACITIES</b>			
Fuel Tank	118 gal. (446 L)	118 gal. (446 L)	118 gal. (446 L)
Engine oil with filter	17 U.S. qt. (16 L)	17 U.S. qt. (16 L)	17 U.S. qt. (16 L)
Hydraulic Fluid	26.5 U.S. gal. (100 L)	26.5 U.S. gal. (100 L)	26.5 U.S. gal. (100 L)
<b>CAB</b>			
Volume (Size)	109.5 cu. ft. (3.1 m <sup>3</sup> )	109.5 cu. ft. (3.1 m <sup>3</sup> )	109.5 cu. ft. (3.1 m <sup>3</sup> )
Glass	68.5 sq. ft. (6.4 m <sup>2</sup> )	68.5 sq. ft. (6.4 m <sup>2</sup> )	68.5 sq. ft. (6.4 m <sup>2</sup> )
<b>SHIPPING WEIGHTS &amp; DIMENSIONS</b>			
With Standard MFD Axle***	18,200 lb. (8250 kg)	18,200 lb. (8250 kg)	18,200 lb. (8250 kg)
With Suspended Front Axle***	19,000 lb. (8600 kg)	19,000 lb. (8600 kg)	19,000 lb. (8600 kg)
Height to Top of Cab***	128.5 in. (3265 mm)	128.5 in. (3265 mm)	128.5 in. (3265 mm)

\* Additional available HP during mobile PTO operation, or 16th gear & higher. \*\* With approved Case IH maintenance practices. \*\*\* With 380/85R34 front and 480/80R46 rear tires.

# SPECIFICATIONS

SPECIFICATIONS	MAGNUM 180 CVT	MAGNUM 190 CVT	MAGNUM 210 CVT	MAGNUM 225 CVT
<b>ENGINE</b>				
PTO Horsepower at Rated RPM	150 PTO hp @ 2200 RPM	165 PTO hp @ 2200 RPM	180 PTO hp @ 2200 RPM	195 PTO hp @ 2200 RPM
Engine Power Boost*	35 engine HP*	31 engine HP*	19 engine HP*	16 engine HP*
Cylinders / Displacement / Number of valves	6 / 411 cu. in. (6.75 L) / 24	6 / 411 cu. in. (6.75 L) / 24	6 / 411 cu. in. (6.75 L) / 24	6 / 411 cu. in. (6.75 L) / 24
Aspiration	Turbocharged / Intercooled	Turbocharged / Intercooled	Turbocharged / Intercooled	Turbocharged / Intercooled
Bio-Diesel Fuel	Up to 100% [B100]**	Up to 100% [B100]**	Up to 100% [B100]**	Up to 100% [B100]**
<b>ELECTRICAL</b>				
Alternator Standard / Optional	150 / 200 amp	150 / 200 amp	150 / 200 amp	150 / 200 amp
<b>TRANSMISSION</b>				
25 mph (40kph) CVT Transmission w/ Economy Transport Mode	Standard	Standard	Standard	Standard
30 mph (50kph) CVT Transmission w/ Economy Transport Mode	Optional	Optional	Optional	Optional
Creeper speeds	Standard	Standard	Standard	Standard
PTO (interchangeable shafts)	5540/1000 rpm 1-3/8 in. (35 mm) shafts, and 1000 rpm 1-3/4 in. (44 mm) shaft	540/1000 rpm 1-3/8 in. (35 mm) shafts, and 1000 rpm 1-3/4 in. (44 mm) shaft	540/1000 rpm 1-3/8 in. (35 mm) shafts, and 1000 rpm 1-3/4 in. (44 mm) shaft	540/1000 rpm 1-3/8 in. (35 mm) shafts, and 1000 rpm 1-3/4 in. (44 mm) shaft
<b>AXLES</b>				
Standard rear diameter	4-1/8 in. (105 mm)	4-1/8 in. (105 mm)	4-1/8 in. (105 mm)	4-1/8 in. (105 mm)
Rear axle length - Standard / Optional	119 in. (3020 mm) / 112 in. (2485 mm)	119 in. (3020 mm) / 112 in. (2485 mm)	119 in. (3020 mm) / 112 in. (2485 mm)	119 in. (3020 mm) / 112 in. (2485 mm)
Suspended Front Axle	Optional	Optional	Optional	Optional
MFD Tread Adjustability	60 - 88 in. (1524-2235 mm)	60 - 88 in. (1524-2235 mm)	60 - 88 in. (1524-2235 mm)	60 - 88 in. (1524-2235 mm)
Wheelbase (MFD)	118.3 in. (3005 mm)	118.3 in. (3005 mm)	118.3 in. (3005 mm)	118.3 in. (3005 mm)
Turning Radius***	16 ft.	16 ft.	16 ft.	16 ft.
<b>HYDRAULICS</b>				
Hydraulic Type	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)
Remotes - Standard / Optional	3/4/5 Electro-hydraulic	3/4/5 Electro-hydraulic	3/4/5 Electro-hydraulic	3/4/5 Electro-hydraulic
Main / Implement Pump Flow	40 gpm (150 L/Min)	40 gpm (150 L/Min)	40 gpm (150 L/Min)	40 gpm (150 L/Min)
Available Flow at Individual Hydraulic Remote Valve	31.7 gpm (120 L/min)	31.7 gpm (120 L/min)	31.7 gpm (120 L/min)	31.7 gpm (120 L/min)
3-point Hitch Category	Cat II/IIIN	Cat II/IIIN	Cat II/IIIN	Cat II/IIIN
Hitch Lift Capacity - Standard / Optional	10,900 lbs. (4944 kg) / 13,600 lb. (6168 kg)	10,900 lbs. (4944 kg) / 13,600 lb. (6168 kg)	10,900 lbs. (4944 kg) / 13,600 lb. (6168 kg)	10,900 lbs. (4944 kg) / 13,600 lb. (6168 kg)
Mid-Mount Valve - Optional	2 or 3 function	2 or 3 function	2 or 3 function	2 or 3 function
<b>CAPACITIES</b>				
Fuel Tank	118 gal. (446 L)	118 gal. (446 L)	118 gal. (446 L)	118 gal. (446 L)
Engine oil with filter	16 U.S. qt. (15 L)	16 U.S. qt. (15 L)	16 U.S. qt. (15 L)	16 U.S. qt. (15 L)
Hydraulic Fluid	27 U.S. gal. (102 L)	27 U.S. gal. (102 L)	27 U.S. gal. (102 L)	27 U.S. gal. (102 L)
<b>CAB</b>				
Volume (Size)	109.5 cu. ft. (3.1 m <sup>3</sup> )	109.5 cu. ft. (3.1 m <sup>3</sup> )	109.5 cu. ft. (3.1 m <sup>3</sup> )	109.5 cu. ft. (3.1 m <sup>3</sup> )
Glass	68.5 sq. ft. (6.4 m <sup>2</sup> )	68.5 sq. ft. (6.4 m <sup>2</sup> )	68.5 sq. ft. (6.4 m <sup>2</sup> )	68.5 sq. ft. (6.4 m <sup>2</sup> )
<b>SHIPPING WEIGHTS &amp; DIMENSIONS</b>				
With Standard MFD Axle***	19,000 lb. (8620 kg)	19,000 lb. (8620 kg)	19,000 lb. (8620 kg)	19,000 lb. (8620 kg)
With Suspended Front Axle***	19,800 lb. (8980 kg)	19,800 lb. (8980 kg)	19,800 lb. (8980 kg)	19,800 lb. (8980 kg)
Height to Top of Cab***	128.5 in. (3265 mm)	128.5 in. (3265 mm)	128.5 in. (3265 mm)	128.5 in. (3265 mm)

\* Power boost available during mobile PTO operation, or 16th gear & higher. \*\* With approved Case IH maintenance practices. \*\*\* With 380/85R34 front and 480/80R46 rear single tires & no weights.



WWW.CASEIH.COM

**SAFETY NEVER HURTS!™** Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs, and use any safety features provided.

Case IH is a registered trademark of CNH America LLC. Any trademarks referred to herein, in association with goods and/or services of companies other than CNH America LLC, are the property of those respective companies.

CNH America LLC reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice. Availability of some models and equipment builds varies according to the country in which the equipment is used.

