



PUMA® 165-225 SERIES TRACTORS

135 – 195 PTO HP

SERVICE MANUAL CLICK HERE:

<https://goo.gl/nSuQFj>



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<https://goo.gl/nSuQFj>

**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.**

**LET'S FACE IT. GOALS CHANGE. NEEDS CHANGE.
THE WORLD CHANGES. BUT THE NUMBER OF
HOURS IN THE DAY NEVER DOES. THAT'S WHY
WE'VE DEVELOPED AN EFFICIENT, MULTIPURPOSE
TRACTOR LINE WITH JUST THE RIGHT SIZE AND
POWER TO HANDLE A VARIETY OF TASKS IN YOUR
OPERATION — THE NEW PUMA™ SERIES TRACTORS.
THEY'RE RELIABLE. THEY'RE DURABLE. THEY'RE
FUEL EFFICIENT. THEY'RE PUMA.**



FOR THOSE WHO DEMAND MORE



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Ergonomic SurroundVision cab delivers an unobstructed 360-degree panoramic view.

Front corner-post digital displays and optional performance monitor keep important functions and performance data centrally located.

Sculpted front end allows for outstanding turning radius and superior maneuverability.

Exclusive Turn Assist steering system option minimizes steering effort for less fatigue and more productivity.

INCREASED EFFICIENCY. HIGHER RETURNS.



Best-in-class MultiControl Armrest puts six key functions literally at your fingertips, including gear, throttle, hitch, hydraulics, shuttle, and end-of-row functions.

Proven Case IH components work together as a reliable, durable system.

Exclusive Smart Suspension MFD front axle option automatically senses the speed of drop and varies the deflection accordingly for ultimate ride quality.

Model	PTO HP	Power Boost*
Puma 165	135	35
Puma 180	150	35
Puma 195	165	31
Puma 210	180	19
Puma 225	195	16

*Mobile PTO, hydraulic and transport operations.

Exclusive Suspended Cab system and Positive Response™ seat reduce vibration and enhance operator comfort.

LEADING THE INDUSTRY

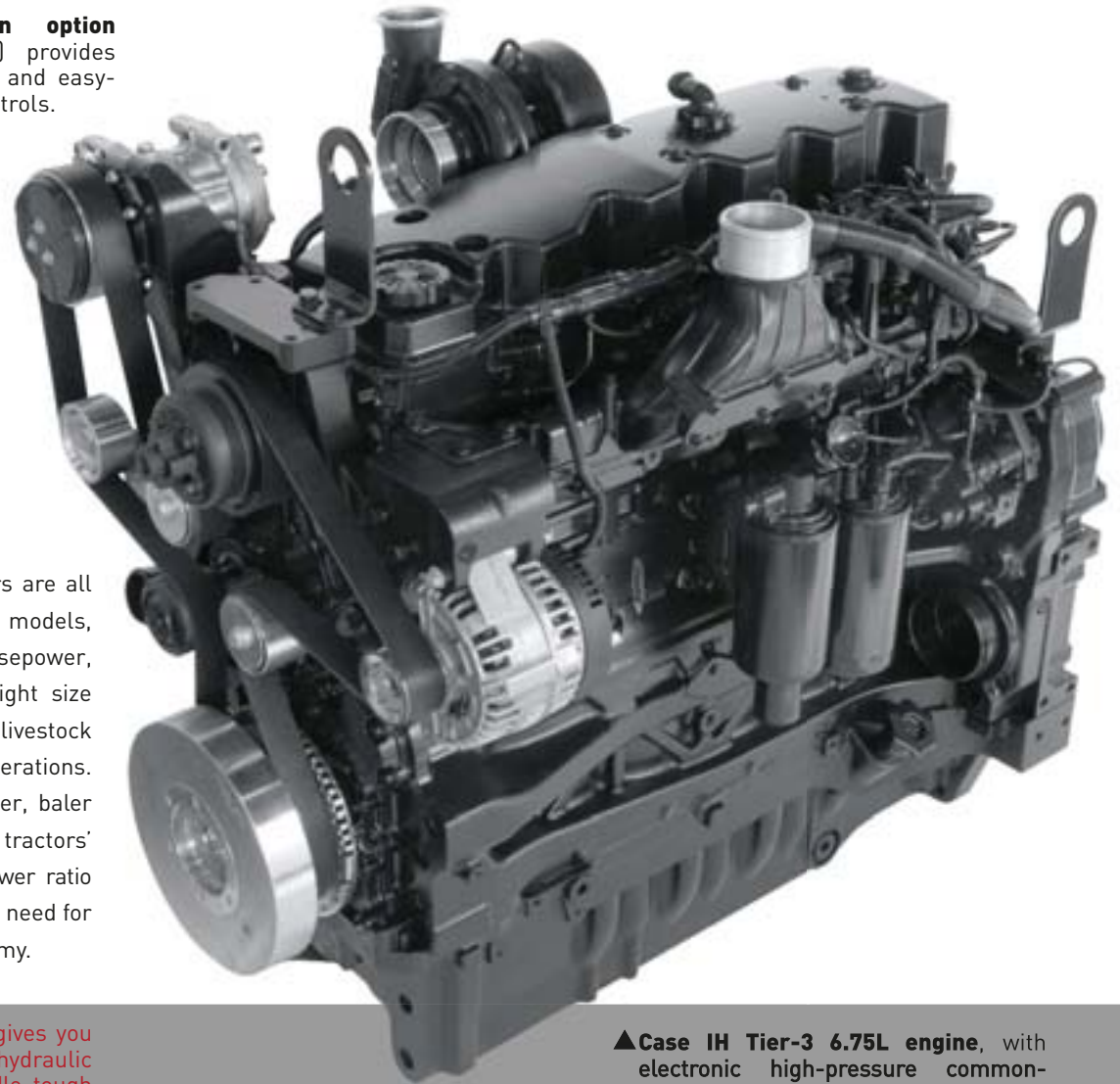


New CVT transmission option (standard on Puma 225) provides outstanding fuel efficiency and easy-to-understand operator controls.

The new Puma Series tractors are all about efficiency. With five models, ranging from 135 to 195 PTO horsepower, Puma tractors provide the right size and power for a wide variety of livestock and mixed crop/livestock operations. Whether it's mower conditioner, baler or loader work, the Puma tractors' outstanding weight-to-horsepower ratio delivers the precise power you need for peak efficiency and fuel economy.

19th EconoGear option enhances fuel efficiency and quiets operation noise at top road speeds.

Up to 35-horsepower boost gives you extra power for mobile PTO, hydraulic or transport, helping to handle tough crop conditions or steep inclines.



▲ **Case IH Tier-3 6.75L engine**, with electronic high-pressure common-rail fuel system, delivers fuel-efficient power up to 195 PTO horsepower to handle your toughest jobs.

▼ **SurroundVision cab features** curved glass and an unobstructed view of your surroundings.

▼ **Remote-adjustable electric mirror** option lets you change rear views at the touch of a button.

▼ **Narrow front steering console** provides excellent front in-row visibility.

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

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



▼ **Brightly illuminated control panels** provide clear, easy-to-read displays.

CAB ENVIRONMENT

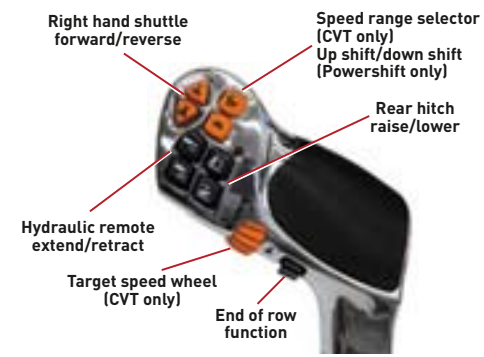
MORE CONTROL. LESS FATIGUE.

SURROUNDVISION CAB TECHNOLOGY COMBINES PANORAMIC VIEWS WITH ERGONOMIC CONTROLS FOR HIGHER PRODUCTIVITY AND COMFORT, SEASON AFTER SEASON.

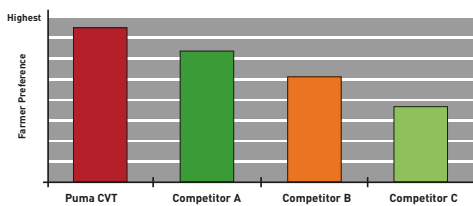
Unsurpassed sight lines, ergonomic controls and operator-friendly features highlight the highly evolved Puma tractor cab. Designed with operator comfort and productivity in mind, this best-in-class cab features SurroundVision with 63 square feet of glass, including the optional high-visibility cab roof window for unobstructed views in all directions.

Long days in the field are less taxing with the new best-in-class MultiControl armrest, which puts six key tractor functions into the control handle at your fingertips. Other key tractor functions are all within the range

of your forearm in the armrest for instant access, including an optional integrated electro-hydraulic joystick for ergonomic loader operation. The front right A-Post instrument cluster keeps important operating information within your natural line of sight.



OPERATOR CONTROLS RATING



▲ Farmers surveyed rated the easy-to-understand **Case IH CVT controls as preferred** over several other competitive CVT or “infinitely variable” tractors.



▲ **The MultiControl handle** puts the six most frequently used controls literally within the palm of your hand, with remaining key functions within a forearm’s reach — all integrated into the operator armrest. An **optional electro-hydraulic joystick**, with two or three functions, adjoins the armrest controller for added convenience.



▲ **Instrumentation is clear, concise and easy to see.** Basic functions can be seen at a glance and the Performance Monitor relays additional feedback on tractor functions such as percent of slip, area worked, and service reminders. **Factory-installed AccuGuide Ready and AFS Pro 600 color touchscreen monitor options** allow you to take advantage of tractor performance recordkeeping by field, along with AFS AccuGuide autoguidance, with a dealer-installed GPS receiver and navigation controller.

▼ A fully adjustable red leather bucket seat and heat that cycles on and off during the work day are options for maximum comfort superior ride quality.



▲ The **optional Positive Response** seat technology uses a seat sensor that automatically adjusts the shock absorber, reacting 500 times per second for a smooth ride over the roughest terrain.



▲ The **Turn Assist** option provides rapid lock-to-lock steering response for reduced operator effort. Full left or right turns can be made by moving the steering wheel just 10 degrees at speeds up to six miles per hour, making loader applications more productive.



▲ A **left-hand storage box** provides compartments and cupholders for added convenience. It is a standard feature unless replaced with optional instructional seat.



◀ **AFS AccuGuide-Ready option** includes factory-installed roof bracket for mounting a dealer-installed Case IH GPS receiver.

SUSPENSION SYSTEMS

LESS VIBRATION. SMOOTHER RIDE.

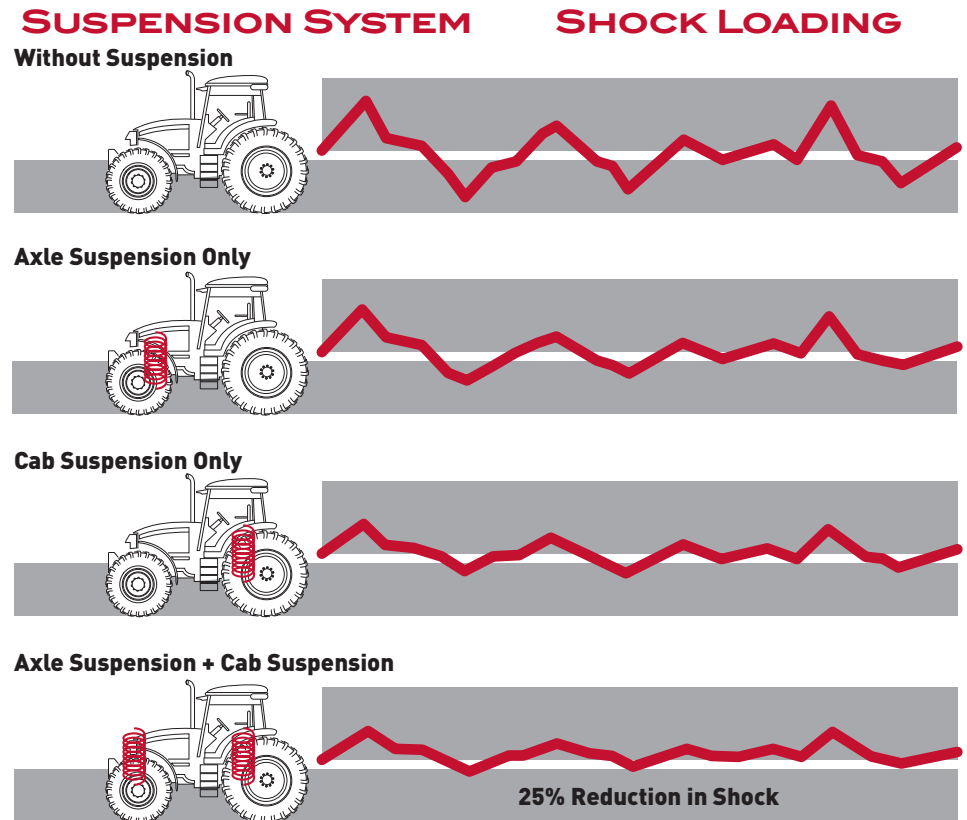
SHOCK-REDUCING CAB SUSPENSION AND POSITIVE RESPONSE SEAT SYSTEMS PROVIDE ULTIMATE COMFORT AND ENHANCED PRODUCTIVITY.

The exclusive cab suspension system in the Puma Series tractors significantly reduces shocks and vibrations from field work and transport for greater operator comfort and productivity. Unlike front-axle suspension alone, the combination of cab and seat suspension systems significantly reduces vibration from the rear wheels. The result is a 25 percent reduction in shock loads to the operator.

Optional Smart Suspension MFD front-axle technology, suspended cab and Positive Response seat options add to a smoother ride. Operators experience less fatigue under any field and road conditions, even driving across furrows; managing heavy front-loader jobs; and transporting large equipment, such as heavy slurry tanks and grain carts. Smart Suspension MFD front-axle technology also provides better traction in rough fields and allows faster speeds during hay work, spraying and other higher-speed operations.

▼ **The Puma cab suspension system's** straightforward design includes a panhard rod for lateral stability and large rubber bushings on all linkages for less vibration and noise in the cab.

▼ **Optional Smart Suspension MFD front-axle technology** adjusts the speed and severity of the axle's reaction to a drop or bump for a smoother ride and improved stability at faster transport speeds.



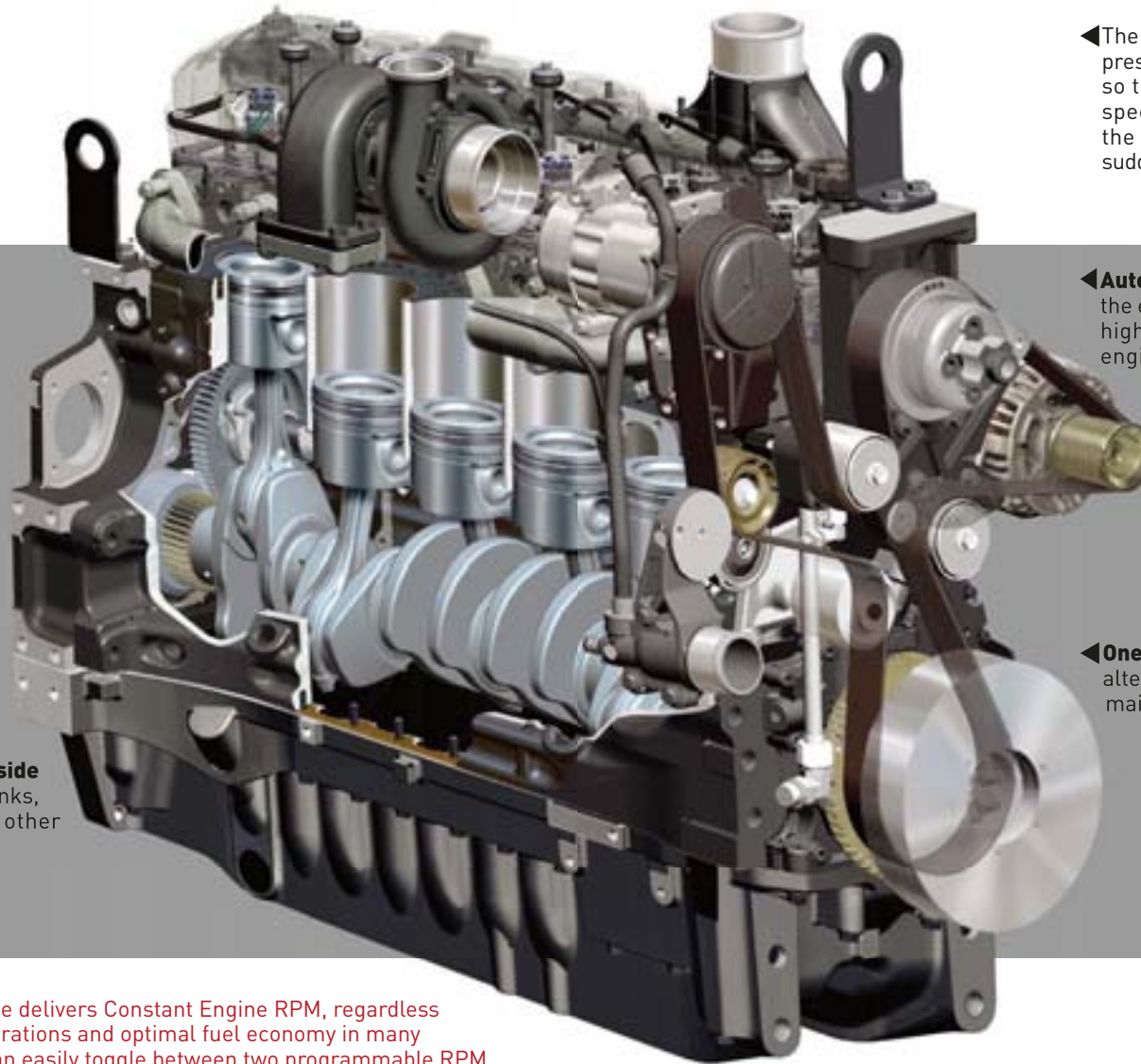
▲ **Front cab mounts** are vertically positioned and two spring damper units are mounted beneath the cab frame to filter out shock loads and provide more operator comfort.

▲ A **sensor in the front bolster** area measures vertical acceleration of the axle and varies deflection and damping for the ultimate ride.

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.



◀ 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.

◀ **Auto shutdown feature** shuts off the engine when sensors indicate high temperatures to prevent engine damage.

◀ **One Poly-Vee belt** drives the fan, alternator and water pump for low maintenance and long belt life.

Optional contoured engine side rails accommodate spray tanks, additional front ballast and other accessories.

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.

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



B100 Biodiesel Approved

Approved for use with up to **100 percent biodiesel fuel blends** with approved Case IH biodiesel maintenance practices.

FUEL SAVINGS. DURABLE PERFORMANCE.

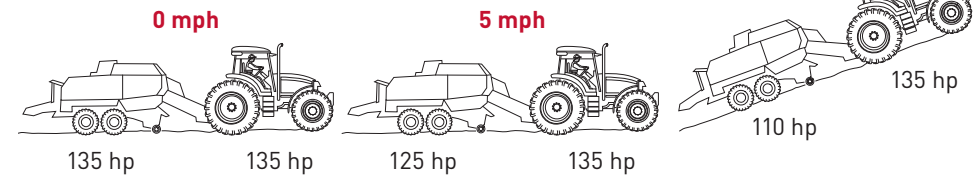
THE NEW-GENERATION CASE IH 6.75L ENGINE POWERING PUMA TRACTORS FEATURES OUTSTANDING FUEL ECONOMY AND LONG-LASTING DURABILITY.

With a proven track record in previous models of Puma 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 411-cubic-inch (6.75L) clean-burning power plant delivers 135, 150, 165, 180 and 195 PTO horsepower, depending on the model. An additional Power Boost of up to 35 horsepower is also available during mobile PTO, hydraulic and transport operations.

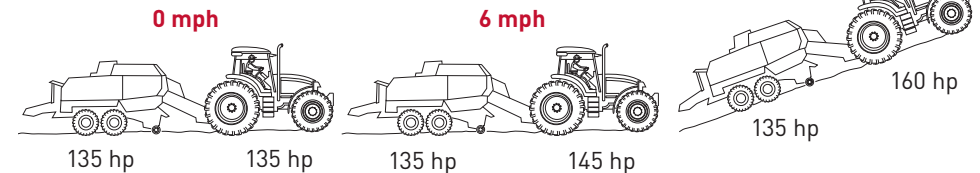
New engine technology provides better performance, low emissions and greatly reduced noise levels. The result is more efficient operation with greater durability and reliability.

POWER MANAGEMENT

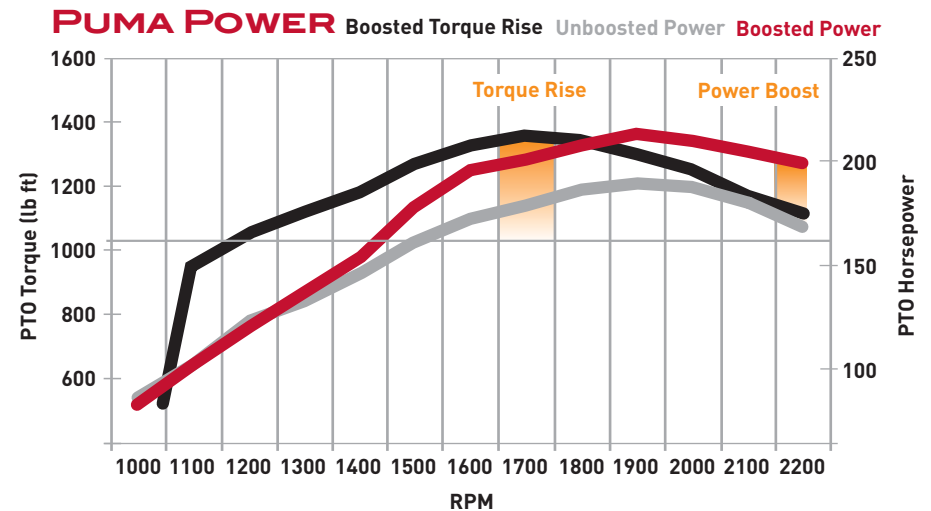
Without Power Boost



With Power Boost



► **Power Boost™** during transport and mobile hydraulic/PTO operations is standard on all Puma models, providing up to an additional 35 engine horsepower. This burst of power helps the operator tackle tough crop conditions or steep grades without losing speed or productivity. The excellent Puma 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 Puma 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.

Puma CVT tractors employ the DieselSaver™ 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.

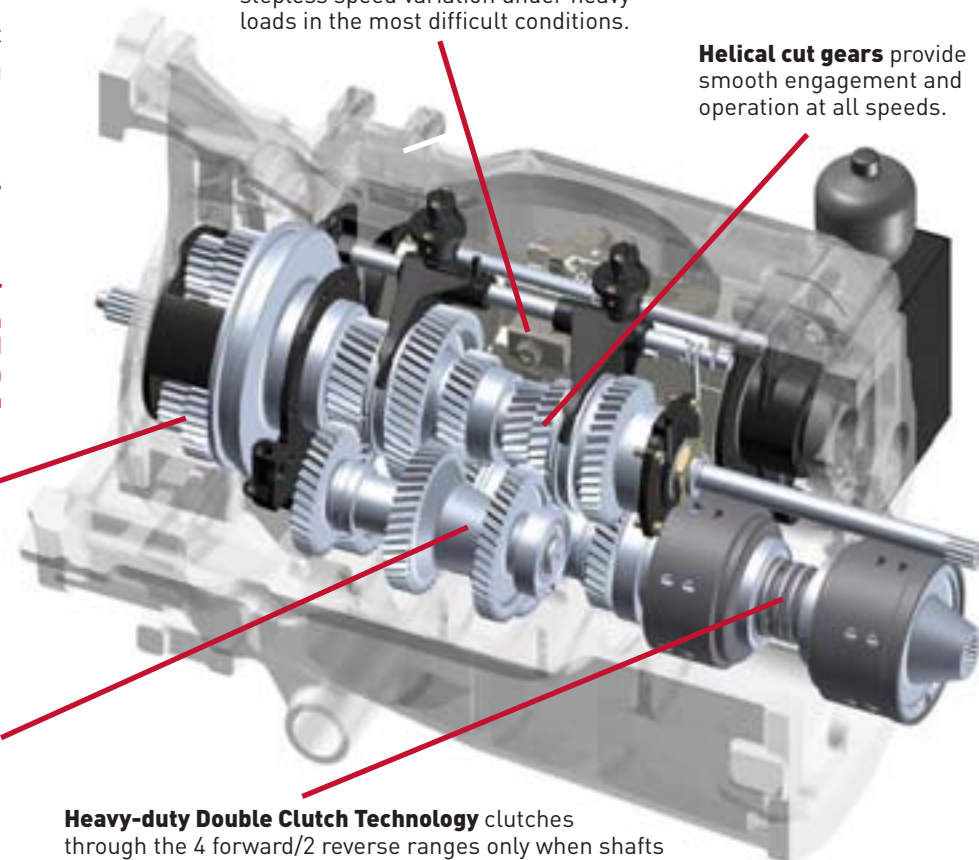
► **The state-of-the-art Case IH CVT transmission** is a 'hybrid' drive train that combines the stepless speed variability of a hydrostatic transmission with the mechanical efficiency of a traditional gear-on-gear transmission.

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.

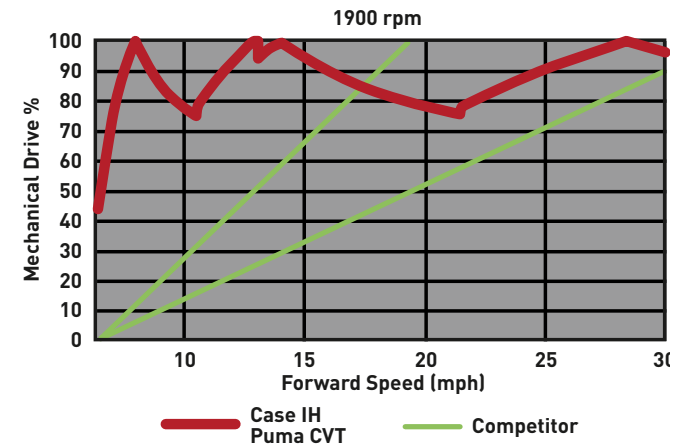
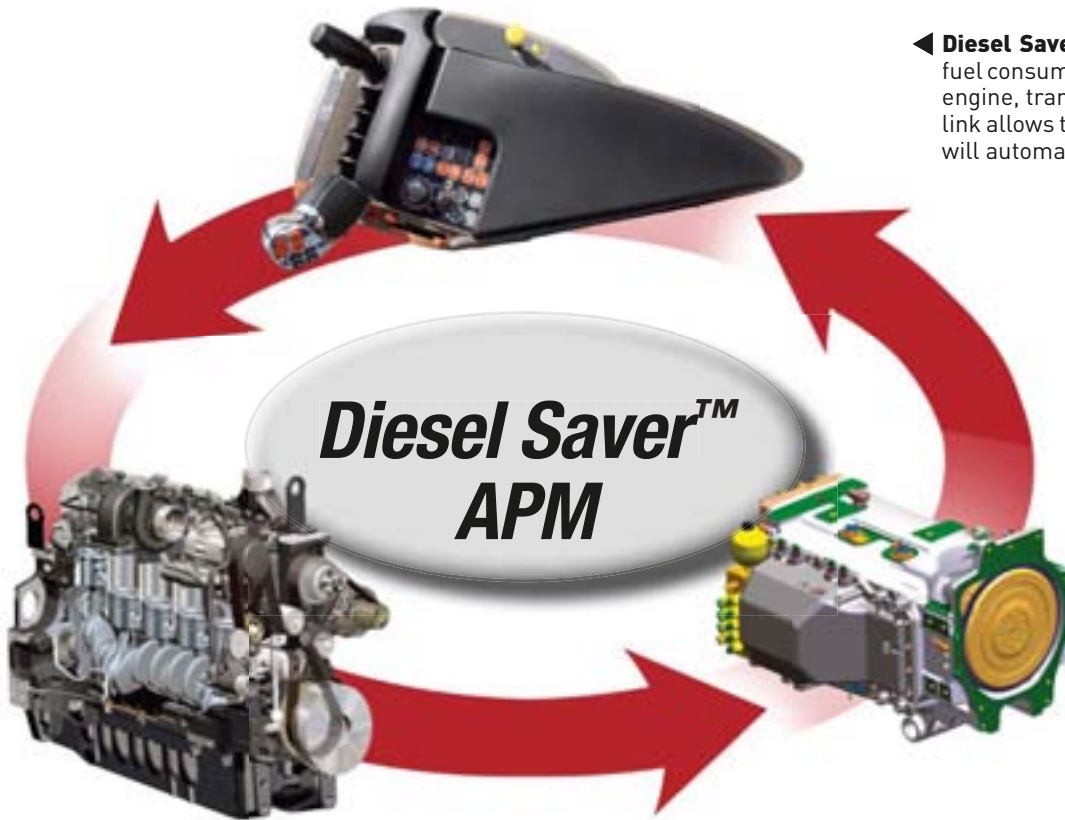
Helical cut gears provide smooth engagement and operation at all speeds.



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** maintains superior mechanical efficiency at various operating speeds compared to 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.

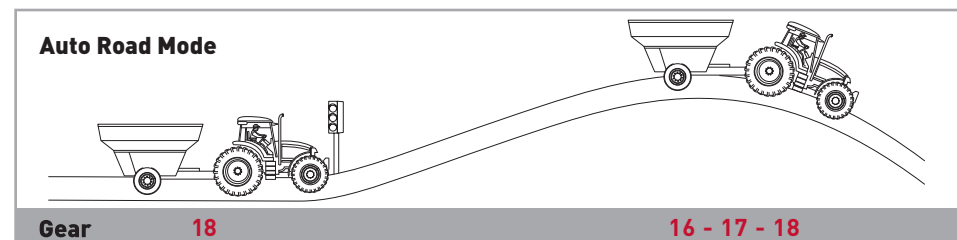
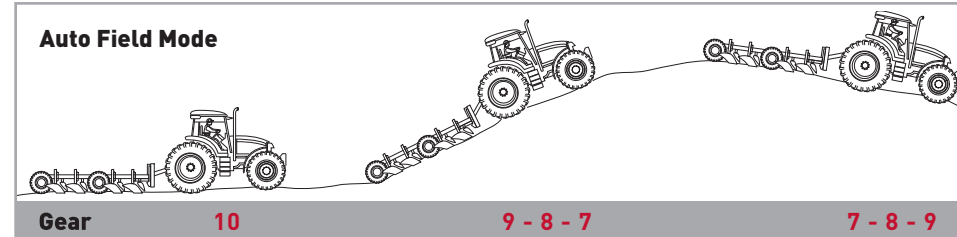
MAXIMUM SPEED. LESS EFFORT.

PUMA 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.

Choose the optional 19th gear for use as either an economy road gear at reduced RPM, or upgrade the tractor to 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.

▼ Puma 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.



AXLES/TURNING RADIUS

TIGHTER TURNS. HIGHER PRODUCTIVITY.

PUMA TRACTORS FEATURE HEAVY-DUTY TECHNOLOGY FOR OPTIMUM TRACTION, EASY TURNING AND MORE COMFORTABLE RIDES.

Puma tractors offer axle options to match your terrain, conditions and tasks. Puma axle technology provides the ultimate ride across challenging terrain with all types of loads. New optional Smart Suspension MFD front-axle technology offers enhanced stability and less vibration, while keeping the front tires in contact with the ground for up to 15 percent better traction, improved steering control and operator comfort.

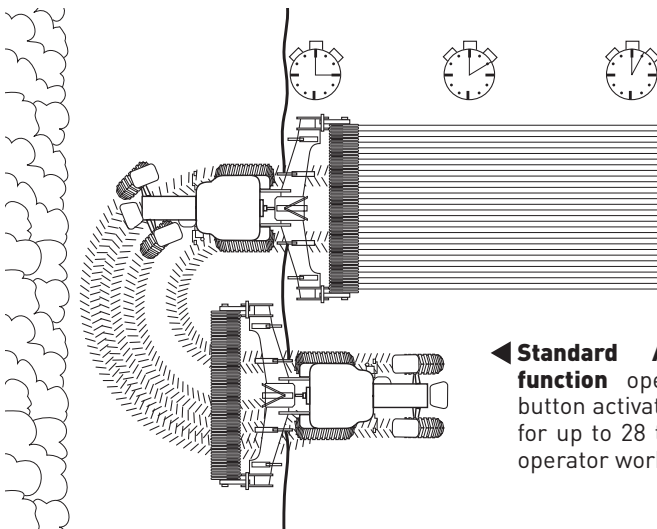
Puma tractors lead the industry with tighter, easier turns for less operator fatigue and top productivity. The sculpted front frame allows an unprecedented 18-foot turn radius with typical row crop tires. The optional Turn Assist steering system minimizes operator effort, especially during repetitive loader work and frequent end-of-row turns.

► **Exclusive Smart Suspension MFD front-axle technology** provides improved field and road handling and traction during tasks such as driving across furrows, heavy front-loader work, and transporting heavy slurry wagons and grain carts.

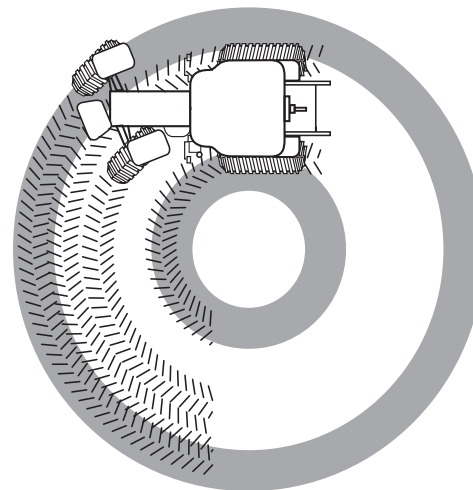


▲ **Optional dynamic front fender** moves with the wheel, allowing a tighter turning radius while covering the tire at all track settings.

◀ **Sculpted front end** allows an outstanding 18-foot turning radius and superior maneuverability with typical row crop tires.



◀ **Standard Automatic End-of-Row function** operates easily with one-button activation and includes memory for up to 28 tasks to reduce repetitive operator work.



► **Optional joystick integrated in the MultiControl armrest** can be used to operate mid-mount loader valves with up to 3 live simultaneous functions, or redirected to a rear electro-hydraulic remote.



Optional hydraulic trailer brake is available for use with implements that include an independent braking system, such as heavy slurry or grain tanks.

► **Three hydraulic remotes are standard** with up to five optional. Powershift models are standard with mechanical remotes, or can be equipped with electro-hydraulic option (standard on CVT models).



▼ **Convenient selectable hydraulic detent settings** are standard for easy operation. Detent settings can be changed according to implement for easier operation with applications such as orbital motors.

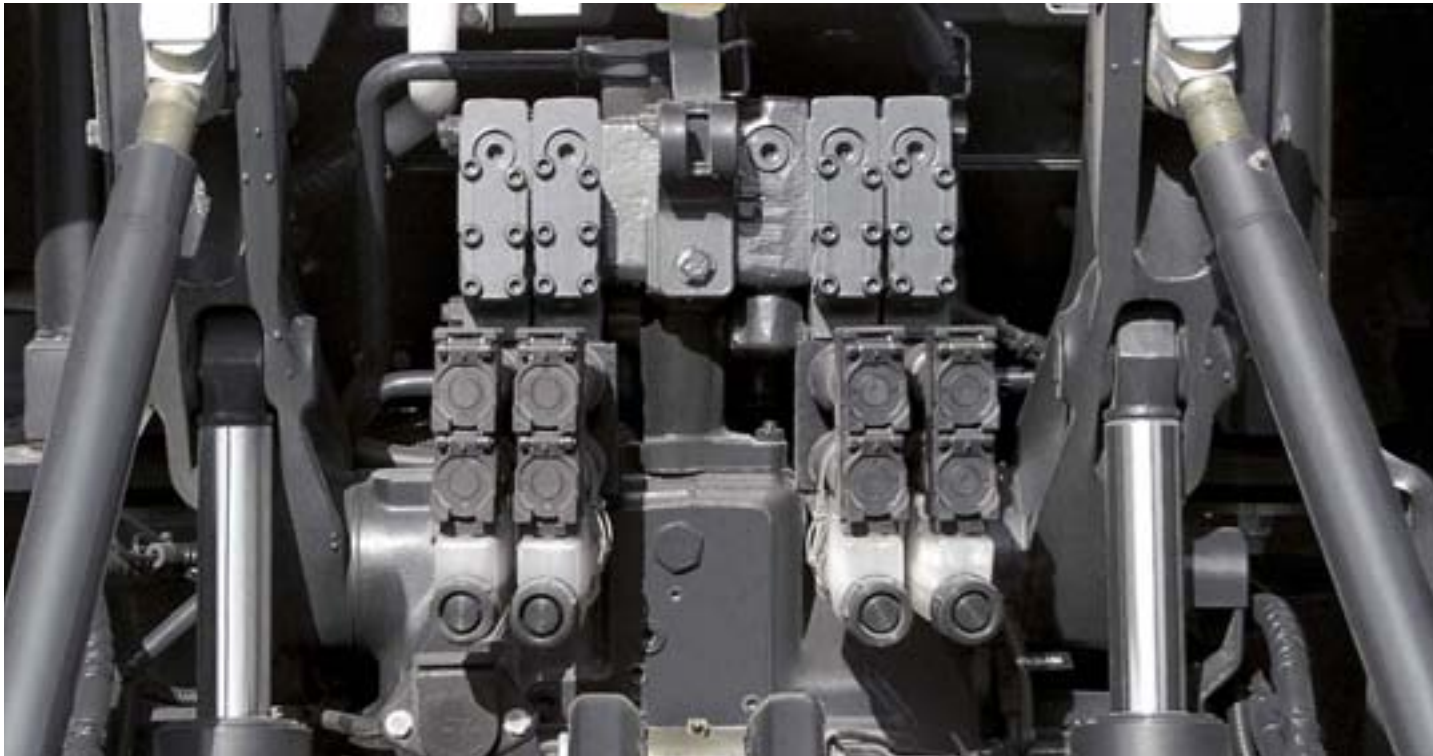
SELECTABLE HYDRAULIC MODES

Setting	Float Position	Lower Position	Neutral Position	Raise Position
1	Detent w/o kick out	No detent		No detent
2	Float position not available	No detent		No detent
3	Detent w/o kick out	Detent w/kick out		Detent w/kick out
4	Detent w/o kick out	Detent w/o kick out		Detent w/o kick out
5	Detent w/o kick out	Detent w/o kick out	Position not available	Position not available



ON-DEMAND PRESSURE. RESPONSIVE CONTROL.

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



The Puma Series PFC load-sensing hydraulic pump delivers the power and control needed for today's loaders, implements and remote hydraulic motors for efficiency, reduced wear and top fuel economy. This high-capacity system delivers quick response and the flexibility to handle several functions simultaneously without sacrificing performance.

Standard implement pump flow is 28 GPM (105 LPM), with **optional high flow** of up to 40 GPM (150 LPM) available. Combined with the separate 17 GPM (65 LPM) steering circuit, the Puma series can be equipped with **up to 57 GPM (215 LPM) total tractor hydraulic flow** for greater productivity.

Standard Power Beyond Ready permits easy installation of a separate feed, return and sensing line to operate sprayers or other implements that have high hydraulic demand with their own independent valve controls.

Standard hitch-lift capacity is 10,900 lb. (4945 kg) with **optional 13,600 lb. (6165 kg) hitch-lift capacity** available for larger implement loads.

Dynamic ride control is standard for smooth rides during road transport.



▼ For increased versatility, a factory-installed **front hitch and PTO system** is now available for Puma Series tractors.



Automatic slip control option is available for use on tractors with ground speed radar.

Electronic draft control lets the operator enter and maintain the needed blend of position and draft.



▲ In addition to in-cab controls, fender-mounted **hitch, PTO and hydraulic remote controls** are included on both rear fenders for easy ground-level access.

AMPLE POWER. FLEXIBLE CONTROL.

CONVENIENT CONTROLS CREATE GREATER EFFICIENCIES WITH THE PUMA TRACTORS' HEAVY-DUTY THREE-POINT HITCH AND PTO SYSTEM.

The powerful Puma 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 an optional high-lift option to tackle even higher-load implement challenges.

The rugged, efficient, Puma tractor PTO system features a new Auto PTO Management option to reduce operator effort and protect PTO driveline components. Operator convenience is enhanced with both in-cab PTO controls and a new fender-mounted switch.



▲ **Optional 1000/1000E PTO on CVT models** allows the operator to switch from 1,900 engine rpm (1000 PTO) to a fuel-saving 1,700 engine rpm (1000E PTO) using a convenient in-cab switch.

Independent 540/1,000 RPM PTO with an interchangeable 1 $\frac{3}{8}$ -inch shaft is standard on all Puma models, delivering constant power in non-static applications. **An independent 1,000 RPM 1 $\frac{1}{4}$ -inch shaft** is also available.

The **Auto PTO Management** option automatically turns the PTO on and off at a predetermined height of the three-point hitch, reducing operator effort and protecting PTO driveline components during headland turns.

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

► **A bucket-level indicator** is standard, with optional mechanical self-leveling available.

► **Factory-installed** rear loader brackets and two- or three-function mid-mount valves are available.

► **A breakout force of up to 5,800 pounds** provides ample power for tough jobs.

LARGER LOADS. EASIER HANDLING.



▲ **Optional high-visibility roof window** provides a clear view of the loader in raised position.

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



L760 & L770 CASE IH FRONT LOADER

Standard features Case IH Puma Series Loaders*		
Quick-attach design		
4-bar bucket linkage		
Bucket-level indicator		
Parking stand		
Specifications for Case IH Puma Series Loaders*	L760 for Puma 165-180	L770 for Puma 165-225
Lift capacity at maximum height at 31.5 in. (800 mm) – self-leveling	4,650 lb. (2109 kg)	4,900 lb. (2223 kg)
Lift capacity at maximum height at pins – self-leveling	5,350 lb. (2427 kg)	5,450 lb. (2472 kg)
Breakout force	5,000 lb. (2268kg)	5,800 lb. (2631 kg)
Maximum lift height	169 in. (4.29 m)	178 in. (4.52 m)
Maximum lift height under level bucket	157 in. (3.99 m)	166 in. (4.22 m)
Clearance with bucket dumped	131 in. (3.33 m)	140 in. (3.56 m)
Reach at maximum lift height	29 in. (0.74 m)	29 in. (0.74 m)
Maximum dump angle	55°	55°
Reach at ground line	104 in. (2.64 m)	113 in. (2.87 m)
Bucket rollback angle	41 °	43 °
Digging depth	4 in. (100 mm)	6 in. (152 mm)

*Loader specifications are subject to change and may vary based on tractor model, hydraulic system and tire size.



Multi-Use Fork



Pallet Fork



Quick-Attach Material Bucket



HD Round or Square Plastic Wrap Bale Grip



HD Round Bale King Bucket and Grapple

LOADERS

THE L700 SERIES LOADERS AND PUMA TRACTORS ARE A PERFECT MATCH FOR OUTSTANDING LOAD VISIBILITY, EXCEPTIONAL LOAD HANDLING AND HIGH CAPACITY.

The new L700 Series loaders feature tough construction to match the power of Puma tractors for heavy-duty loader work. Puma tractors can be ordered loader-ready with factory-installed brackets, mid-mount valves and fingertip 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.



▲ **Quick Lock mounting system** is quick and easy. The spring-loaded design keeps the pins with the loader—no pins or parts to search for when attaching the loader. Safety mechanisms are built-in for simplicity and dependability.



▲ **The new Central Hydraulic Valve** is protected by the cross tube and a cover reducing damage to hoses, tubes, and accumulators. The valve allows all hydraulic hoses to connect at one point.



▲ **Short-stroke, large-diameter lift cylinders** offer generous breakout forces and reduced cycle times. Cylinder design and placement create maximum clearance for large front tires.



▲ Maintenance is a snap with **easy access grease points** on the outside of the loader. Snap covers protect all grease zerk from contaminants and keep excess grease off of your tractor and loader during powerwashing.

TIME-SAVING ACCESS. CONVENIENT OPTIONS.

PUMA SERIES TRACTORS ALLOW EASY ACCESS FOR KEY MAINTENANCE TASKS TO SAVE TIME ON PREVENTIVE MAINTENANCE AND MINIMIZE OPERATING COSTS.

Puma Series tractors simplify maintenance with an extended 600-hour engine oil change interval and easy service access to keep your machine in top running condition. From the easy-opening hood, convenient service steps and cab service access door to simple oil-level sight gauges, the Puma was designed to provide unobstructed accessibility.

Whether you're monitoring key tractor performance data from inside the cab or checking filters and fluids from ground level, Puma design makes it easy to maintain your equipment and protect your investment.



▲ **New swing-out coolers and radiator** are easy to reach and simple to clean, with no tools required.

▲ **Engine block heater** and transmission heat maintainer are available as factory-installed options for faster starts in cold weather.



▲ **Rear-pivot front-release hood** is supported by gas-filled cylinders, making it easy to raise.

▲ **Engine maintenance points** are located at ground level for easy access.

SERVICEABILITY



▲ **The right-hand service access cab door** facilitates easy installation of monitors and electrical connections, plus access to the right-hand console area.



▲ **Right-hand service steps**, which fold down for battery access, make it easy to change cab air filters, clean glass and adjust mirrors.



Easy-opening hood makes maintenance fast and convenient.

LIGHTING

ULTIMATE LIGHTING. 24/7 PRODUCTIVITY.

PUMA TRACTORS PROVIDE SUPERIOR LIGHTING OPTIONS FOR HIGH-LEVEL VISIBILITY AFTER DARK.



Since the workday doesn't end at sunset, Puma tractors are equipped with a variety of lighting options to keep you up and running any time of day or night. A simple illuminated touch switch on the master lighting panel in the cab activates the precise lighting combination needed to complete your task and guide you home.

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

Turn-signal-activated egress lighting feature provides up to three minutes of outside illumination after tractor shutdown.

▶ A convenient touch switch to activate the desired lighting combination is located on the lighting master control panel for fast, easy operation.

PUMA SERIES TRACTORS

Standard Lighting Equipment	Quantity	Optional Lighting Equipment
Hood-mounted, forward-facing	4	High Intensity Discharge work lighting (front headlight area, front or rear of cab roof) Factory ready for rotary beacon standard; left- and/or right-side beacon optional
Cab roof-mounted, forward-facing	2	
Grabrail-mounted, forward-facing	2	
Cab roof-mounted, rear-facing	2	
C-Post-mounted, rear-facing	2	
Fold-down rear lights for 119-inch axle	2	



OUR SYSTEMS APPROACH

EVERYTHING YOU NEED. ONE EXCEPTIONAL PACKAGE.

CASE IH EMPLOYS A TOTAL SYSTEMS APPROACH, INTEGRATING EQUIPMENT, FINANCING, PARTS AND SERVICE INTO AN EXCEPTIONAL PACKAGE THAT BENEFITS YOU.

Turn to your experienced Case IH specialists when it comes to purchasing the equipment you need for an optimum return on your investment. Highly trained Case IH dealers know how to match the right Puma tractor horsepower and capabilities with the precise tools and implements needed to efficiently complete your farming operations, from hay applications to livestock work and other chores around the farm.

Your Case IH dealer can provide assistance in selecting the right equipment to meet your operation's productivity and financial goals. The Case IH systems approach helps pair tractors with compatible implements, such as planters, cultivators or disks, to achieve peak performance from both pieces of equipment. Your dealer will recommend the ideal option package, with proper tires, weighting and ballast, to help your Puma tractor work most efficiently for your specific requirements. Plus, he or she will consult with you in analyzing results, field by field.

You can also rest assured your Case IH equipment will hold its value through trade-in time. Case IH equipment and your dealer's value-added service are the right choices for those who demand more.



CNH CAPITAL FINANCING SOLUTIONS

For those who demand more from a financial services provider, CNH Capital has the right solutions for you. With more than 50 years experience in the agricultural industry, we understand your unique needs and have developed a wide range of financial products and services to support your business.

CNH Capital offers competitive equipment financing with flexible payments that can

be timed to your cash flow. Operating and finance leases are also attractive options that allow you to reduce up-front payments and conserve capital, while benefiting from the latest in equipment technology. For other business financing needs, choose from a variety of credit card programs designed specifically for the agricultural business. CNH Capital can even help you finance crop-input products, land rental.

PARTS AND SERVICE EXPERTISE

You can always count on your Case IH dealer for the professional service and advice necessary to keep your equipment running, season after season.

In addition to helping you find the right product solutions for your operation, your Case IH dealer offers a vast array of parts, services and equipment protection plans—all backed by expert advice and skilled, factory-trained service professionals who can help you before, during and after the sale. Your Case IH dealer carries the complete line of genuine Case IH parts and components, along with full-service maintenance programs and industry-leading warranties that can help keep your equipment running smoothly.

Now Case IH is helping your dealer raise customer service to an even higher level with **Case IH Max ServiceSM**. This new support service is just a phone call away, ready to assist your dealer in servicing your equipment year-round. Just call 1-877-4CASEIH (1-877-422-7344) and we'll help your dealer meet your request.

Now you can identify the Case IH parts you need online

- Visit www.caseih.com
- Click on Search for Parts under Parts & Service
- Enter your model number or product name
- View a parts list and diagram
- Build a list of the parts you need
- Contact your Case IH dealer to order parts



SPECIFICATIONS	Puma 165	Puma 180	Puma 195	Puma 210
ENGINE				
PTO Horsepower at Rated RPM	135 hp @ 2,200 rpm	150 hp @ 2,200 rpm	165 hp @ 2,200 rpm	180 hp @ 2,200 rpm
Engine Power Boost*	35 hp*	35 hp*	31 hp*	19 hp*
Cylinders/displacement	6/411 cu. In. (6.75 L)	6/411 cu. In. (6.75 L)	6/411 cu. In. (6.75 L)	6/411 cu. In. (6.75 L)
Number of valves	24	24	24	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)**
ELECTRICAL				
Alternator – Standard/Optional	150 / 200 amp	150 / 200 amp	150 / 200 amp	150 / 200 amp
Battery capacity	1300 CCA	1300 CCA	1300 CCA	1300 CCA
TRANSMISSION				
18 speed full power shift 18Fx6R	Standard	Standard	Standard	Standard
19 speed full power shift 19Fx6R with 19th Economy Gear (25 mph/40 kph)	Optional	Optional	Optional	Optional
19 speed full power shift 19Fx6R (30 mph/50 kph)	Optional	Optional	Optional	Optional
Creep speeds with additional 10Fx6R	Optional	Optional	Optional	Optional
PTO – rpm	540/1000	540/1000	540/1000	540/1000
AXLE				
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	112 in. (2485 mm)	112 in. (2485 mm)	112 in. (2485 mm)	112 in. (2485 mm)
Rear axle length - Optional	98 in. (2489 mm) or 119 in. (3020 mm)	98 in. (2489 mm) or 119 in. (3020 mm)	98 in. (2489 mm) or 119 in. (3020 mm)	98 in. (2489 mm) or 119 in. (3020 mm)
Suspended front axle	Optional	Optional	Optional	Optional
Front axle 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	113.6 in. (2884 mm)	113.6 in. (2884 mm)	113.6 in. (2884 mm)	113.6 in. (2884 mm)
HYDRAULICS				
Hydraulic type	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)	Pressure-flow compensating (PFC)
Remotes - Standard/Optional	3/4 mechanical, or 3/4/5 Electro-hydraulic	3/4 mechanical, or 3/4/5 Electro-hydraulic	3/4 mechanical, or 3/4/5 Electro-hydraulic	3/4 mechanical, or 3/4/5 Electro-hydraulic
Main/Implement pump flow - Std./Opt.	28 gpm (105 L/min) / 35 gpm (135 L/min)	28 gpm (105 L/min) / 35 gpm (135 L/min)	28 gpm (105 L/min) / 35 gpm (135 L/min)	28 gpm (105 L/min) / 35 gpm (135 L/min)
Steering and services pump flow	17 gpm (66 L/min)	17 gpm (66 L/min)	17 gpm (66 L/min)	17 gpm (66 L/min)
3-point hitch category	II/IIIN	II/IIIN	II/IIIN	II/IIIN
Standard hitch capacity	10,900 lb. (4945 kg)	10,900 lb. (4945 kg)	10,900 lb. (4945 kg)	10,900 lb. (4945 kg)
Optional hitch capacity	13,600 lb. (6165 kg)	13,600 lb. (6165 kg)	13,600 lb. (6165 kg)	13,600 lb. (6165 kg)
CAPACITIES				
Fuel tank	107 gal. (405 L)	107 gal. (405 L)	107 gal. (405 L)	107 gal. (405 L)
CAB				
Glass	58.7 sq.ft. (5.45 m ²)	58.7 sq.ft. (5.45 m ²)	58.7 sq. ft. (5.45 m ²)	58.7 sq. ft. (5.45 m ²)
Sound Level	70 dBA	70 dBA	70 dBA	70 dBA
SHIPPING WEIGHTS & DIMENSIONS				
Standard MFD w/18.4R42 and front weight bracket	15,700 lb. (7121 kg)	15,700 lb. (7121 kg)	15,700 lb. (7121 kg)	15,700 lb. (7121 kg)
Height to top of cab, 18.4R42	119.7 in. (3040 mm)	119.7 in. (3040 mm)	119.7 in. (3040 mm)	119.7 in. (3040 mm)
Height to top of exhaust, 18.4R42	122.6 in. (3114 mm)	122.6 in. (3114 mm)	122.6 in. (3114 mm)	122.6 in. (3114 mm)

* Additional available HP during mobile PTO/hydraulics operation, or 16th gear & higher.

** With approved Case IH biodiesel maintenance practices.

SPECIFICATIONS

SPECIFICATIONS	Puma 165 CVT	Puma 180 CVT	Puma 195 CVT	Puma 210 CVT	Puma 225 CVT
ENGINE					
PTO Horsepower at Rated RPM	135 PTO hp @ 2,200 rpm	150 PTO hp @ 2,200 rpm	165 PTO hp @ 2,200 rpm	180 PTO hp @ 2,200 rpm	195 PTO hp @ 2,200 rpm
Engine Power Boost*	35 hp*	35 hp*	31 hp*	19 hp*	16 hp*
Cylinders/displacement	6/411 cu. In. (6.75 L)	6/411 cu. In. (6.75 L)	6/411 cu. In. (6.75 L)	6/411 cu. In. (6.75 L)	6/411 cu. In. (6.75 L)
Number of valves	24	24	24	24	24
Aspiration	Turbocharged/intercooled	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)**	Up to 100% (B100)**
ELECTRICAL					
Alternator Std./Optional	150 / 200 amp	150 / 200 amp	150 / 200 amp	150 / 200 amp	150 / 200 amp
Battery capacity	1300 CCA	1300 CCA	1300 CCA	1300 CCA	1300 CCA
TRANSMISSION					
25mph (40kph) CVT Transmission w/ Economy Transport Gear	Standard	Standard	Standard	Standard	Standard
30mph (50kph) CVT Transmission w/ Economy Transport Mode	Optional	Optional	Optional	Optional	Optional
Creep speeds	Standard	Standard	Standard	Standard	Standard
PTO	540/1000 or 1000/1000E	540/1000 or 1000/1000E	540/1000 or 1000/1000E	540/1000 or 1000/1000E	540/1000 or 1000/1000E
AXLE					
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)	4-1/8 in. (105 mm)
Rear axle length - Standard	112 in. (2485 mm)	112 in. (2485 mm)	112 in. (2485 mm)	112 in. (2485 mm)	112 in. (2485 mm)
Rear axle length - Optional	98 or 119 in. (2489 or 3020 mm)	98 or 119 in. (2489 or 3020 mm)	98 or 119 in. (2489 or 3020 mm)	98 or 119 in. (2489 or 3020 mm)	98 or 119 in. (2489 or 3020 mm)
Suspended front axle	Optional	Optional	Optional	Optional	Optional
Front axle 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)	60 - 88 in. (1524-2235 mm)
Wheelbase	113.6 in. (2884 mm)	113.6 in. (2884 mm)	113.6 in. (2884 mm)	113.6 in. (2884 mm)	113.6 in. (2884 mm)
HYDRAULICS					
Hydraulic type	Pressure-flow compensating (PFC)	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	3/4/5 Electro-hydraulic
Main/Implement pump flow - Standard/Optional	35 gpm (135 L/min) / 40 gpm (150 L/min)	35 gpm (135 L/min) / 40 gpm (150 L/min)	35 gpm (135 L/min) / 40 gpm (150 L/min)	35 gpm (135 L/min) / 40 gpm (150 L/min)	35 gpm (135 L/min) / 40 gpm (150 L/min)
Steering and services pump flow	17 gpm (66 L/min)	17 gpm (66 L/min)	17 gpm (66 L/min)	17 gpm (66 L/min)	17 gpm (66 L/min)
3-point hitch category	II/IIIN	II/IIIN	II/IIIN	II/IIIN	II/IIIN
Standard hitch capacity	10,900 lb. (4945 kg)	10,900 lb. (4945 kg)	10,900 lb. (4945 kg)	10,900 lb. (4945 kg)	10,900 lb. (4945 kg)
Optional hitch capacity	13,600 lb. (6165 kg)	13,600 lb. (6165 kg)	13,600 lb. (6165 kg)	13,600 lb. (6165 kg)	13,600 lb. (6165 kg)
CAPACITIES					
Fuel tank	107 gal. (405 L)	107 gal. (405 L)	107 gal. (405 L)	107 gal. (405 L)	107 gal. (405 L)
CAB					
Glass	58.7 sq.ft. (5.45 m2)	58.7 sq. ft. (5.45 m2)	58.7 sq. ft. (5.45 m2)	58.7 sq. ft. (5.45 m2)	58.7 sq. ft. (5.45 m2)
Sound Level	70 dBA	70 dBA	70 dBA	70 dBA	70 dBA
SHIPPING WEIGHTS & DIMENSIONS					
Standard MFD w/18.4R42 and front weight bracket	16,500 lb. (7500 kg)	16,500 lb. (7500 kg)	16,500 lb. (7500 kg)	16,500 lb. (7500 kg)	16,500 lb. (7500 kg)
Height to top of cab, 18.4R42	119.7 in. (3040 mm)	119.7 in. (3040 mm)	119.7 in. (3040 mm)	119.7 in. (3040 mm)	119.7 in. (3040 mm)
Height to top of exhaust, 18.4R42	122.6 in. (3114 mm)	122.6 in. (3114 mm)	122.6 in. (3114 mm)	122.6 in. (3114 mm)	122.6 in. (3114 mm)

* Additional available HP during mobile PTO/hydraulics operation, or 16th gear & higher.

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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.

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