



For Earth, For Life  
**Kubota**

**M**

## KUBOTA DIESEL TRACTOR **M7 Series**

More technology, more power, and more features make the new Kubota M7 Series a leader in the mid-range tractor class.



# M7

For the future of



# farming, people, and the environment

When we set out to make farming easier and more efficient, we focused on the relationships between farming operations and workers, as well as between farming and the environment. We went back to the basics to address the issues that farmers around the world face. We explored the past and future of farming. And we imagined how the ideal tractor could make everyday farming tasks in the future easier and more efficient and environmentally friendly, with lower emissions.

And then we went ahead and built it. Introducing the Kubota M7, clean, most capable, most powerful tractor we have ever built. It deserves to be called the flagship of the farming fleet.

## MODEL CONFIGURATION

Grade	Standard		Premium			Premium KVT		
	M7-151	M7-171	M7-131	M7-151	M7-171	M7-131	M7-151	M7-171
Engine rated horsepower (HP) *97/68EC	148	168	128	148	168	128	148	168
Rated PTO horsepower (HP) *OECD Code2	120	140	100	120	140	100	120	140
Transmission	Powershift					CVT		
Hydraulics	Pressure Compensated, Fixed Displacement		Closed Center, Load Sensing					
Aux. valves	Mechanical		Electronic					

# ENGINE

We believe that improving the environment can improve your farming operations—and your bottom line. That's why our engineers constantly strive to lower emissions and improve fuel efficiency for our engines. For the M7, we combined Kubota's DPF (Diesel Particulate Filter) with SCR (Selective Catalytic Reduction) technologies to create an exceptionally clean engine that meets the strict Tier4 Final regulations.

Even with all these environmentally friendly features, the M7's Kubota diesel engine still delivers incredible power to get any job done quickly and efficiently. This combination of uncompromising environmental performance and exceptionally high power elevates the M7 to the status of flagship of the Kubota tractor fleet.

# Refined



## Clean, dependable, fuel-efficient power—and plenty of it

### Kubota V6108 Engine

The V6108 engine boasts the latest in clean-engine technology. The CRS (Common Rail System) electronically controls the timing and amount of high-pressure injected fuel in stages for optimal combustion, which results in greater efficiency, better fuel economy, and less engine noise. The SCR (selective catalyst reduction) precisely injects DEF (Diesel Exhaust Fluid) into the engine's exhaust system, which transforms the exhaust gases into harmless water vapor and nitrogen. The combination of these two systems with a DPF muffler and an EGR (Exhaust Gas Recirculation) system ensures that the M7 not only meets the Tier4 Final emissions regulations, but dramatically exceeds them.



### Power Boost

Power is the key to superior tractor performance, and the M7 has plenty of power to quickly and efficiently handle just about any task. But when PTO jobs, or transport, calls for more power, the M7's power boost is activated, delivering more power to get you through the tough jobs and complete your task.

### Large tanks for fuel/DEF

Time spent at the fuel pump is time you're not working on the job. To let you work longer between refueling stops, the all M7 models are equipped with large tanks for fuel (87 gal.) and DEF (10 gal.).



## TRANSMISSION

Kubota's vision of productive and efficient farming operations extends to the M7's two transmission options. The KVT (Kubota Variable Transmission) features a continuously variable transmission that offers infinite number of forward and reverse speeds to let you choose the right speed for every job. The Powershift transmission offers 24 speeds for optimum efficiency and productivity; with the factory creep speed installed, a combination of 40 speeds are available. With the right transmission—and speed—for the job, you'll produce the maximum productivity from minimum amounts of time and labor.

# Adaptable



## All the speeds you need for all the jobs you do



### **KVT (Kubota Variable Transmission)**

Available on the M7 Premium, this transmission provides a virtually infinite number of forward and reverse speeds, letting you work at the optimum speed for each job.

### **24 speed Powershift**

The M7 features Kubota's dependable, and automatic Powershift transmission that provides 24 forward and 24 reverse speeds across 6 speed ranges., that can be shifted without clutching. With so many speeds to choose from, it's easy to find the right speed.

### **Optional Creeper**

Some jobs can't be done properly at typical working speeds. That's why the M7 gives you 16 forward and 16 reverse creep speeds to let you do those jobs at extremely slow working speeds.

### **Optional 50K Speed (Premium and Premium KVT models only)**

In addition to standard 40K traveling speed (25mph), 50K (31mph) is also available on both KVT and Powershift transmissions.



EASY-TO-USE

If you could operate your tractor effortlessly and freely, farming would be more enjoyable and rewarding. Kubota envisions a future in which farming is enjoyable and productive because the tractor is easy to operate. The M7 embodies this vision with a variety of easy-to-use features, such as an all-in-one touch panel, the K-Monitor Pro and the EZ Command Center. Intuitive control, simple operation, minimal hand and foot movement, and effortless maneuverability...you can see Kubota's commitment to agriculture in every detail of the M7.

# Accomplished



## Quick, easy, and total control at your fingertips



### **EZ-Command Center (Premium and Premium KVT models only)**

To let you get more work done in less time and with less effort, Kubota has developed a unique multi-function operating lever and arm rest that puts most of the M7's major functions on a single easy-to-use control console. Your right hand is always on the lever, leaving your left hand free for steering. Tractor operations couldn't be simpler or more convenient.



## CABIN

An agricultural tractor is designed for work. It must provide a quiet, comfortable, and intuitive working environment for the operator. All Kubota tractors are designed with these important concepts in mind. No matter how advanced the tractor is, if the cabin is not comfortable, work won't be productive. Kubota's spacious 4-post cabin provides a quiet, and comfortable working environment that minimizes operator fatigue even after many hours of operation.

# Reassuring



## Spacious, comfortable, and quiet all day long

### Comfortable cabin with a view

When you're in the fields from dawn to dusk, you want a ride that keeps you comfortable and working efficiently until the job is done. The M7's wide cabin is designed to do just that. With just four corner posts and no center pillars to get in the way, the view out the front, rear, and both sides is virtually unobstructed. The cabin design also reduces noise from the outside, so you can work in peace and comfort all day long.

### Cabin suspension

The M7 cabin is available with your choice of suspension systems: mechanical (spring), or rubber iso mount. Cabin suspension helps take the bumps out of the ride to keep you comfortable and efficient.

### 3-stage front suspension system (Option for Premium and Premium KVT models only)

The M7's front suspension helps to maintain proper traction while the tractor has 3pt or draft loads while pulling in the field. Suspension stiffness can be adjusted manually or automatically, giving the operator the power to control power to the ground in the field or more comfortable, controlled ride during transport.



HYDRAULICS  
3-POINT HITCH  
PTO  
HEAVY DUTY BAR AXLE

Ag tractor must be able to handle virtually every agricultural job on the farm. That kind of versatility is built into every M7. With a high-performance hydraulic control system and CCLS (Closed Center Load Sensing) available on Premium and Premium KVT models, the M7 offers maximum versatility and operational precision. M7's hydraulic system provides enhanced operational efficiency and the ability to multitask. The 3-point linkage has the capability to lift mounted equipment with ease as well as the ability to handle a wide range of jobs, Kubota's flagship M7 is at the forefront of "smart agriculture."

# Purposeful



# Superior hydraulics give you the versatility and power to get the job done

## Hydraulics

### • Premium and Premium KVT models

The M7 premium model offers premium hydraulics, such as a CCLS and a variable flow rate that can handle a variety of functions at the same time, a 29GPM independent PFC pump, and electronic auxiliary control with four standard auxiliary control valves and the option of five valves.

### • Standard model

The M7 standard model is ready to go to work with Pressure Compensated, Fixed Displacement hydraulics, a 21GPM gear type pump and mechanical auxiliary control with three auxiliary control valves as standard equipment and the option of adding a fourth auxiliary control valve.

### 110 inch long Bar Axle (Premium and Premium KVT models only)

Bar axle provides the ability to achieve proper row spacing and installing dual rear wheels.



### PTO (540/540E/1000/1000E)

Kubota's 4-speed live-independent PTO gives you the ability to operate a variety of rear-mounted implements at the optimum speed for each. The independent PTO can be engaged and disengaged without stopping the tractor using a single control knob with automatic modulation for smooth engagement.



### Auto PTO on/off with 3-Point hitch position

You will appreciate the convenience and precision Auto PTO provides when turning at the end of a row. Auto PTO automatically disengages the PTO when the linkage is raised, and then re-engages when the linkage is lowered.



## EQUIPMENT

Precision farming is the future of agriculture. Precision farming produces bigger yields and better crops, and saves you time, labor, and money. The M7 offers a wealth of high technology designed to streamline and enhance operations, eliminate unnecessary steps, and perform farming tasks with utmost precision in every detail. All of the controls for all of the functions are ergonomically arranged on a single large touch display positioned just inches from your fingertips. Kubota's customizable Headland Management System makes headland turning easier and more precise. An ISO-BUS monitor/controller and Auto guidance ready also contribute to the M7's precision handling and simple control.

# Precision



## Sophisticated control with a simple purpose: To get the job done quickly and efficiently

### **K-monitor Pro (Premium and Premium KVT models only)**

Most of the M7's functions are conveniently displayed on a single large LCD touch screen and can be adjusted and set with simple touches of a finger. The four main functions—Tractor Control, ISO-BUS connector-compatible implement control, GPS-compatible auto-guidance, and Camera Monitor—are always displayed on the user-friendly panel, simplifying their adjustment and monitoring. You can even edit the displayed information to show only what you want to see.

### **ISO-BUS connector-compatible**

Out of the box, the M7 Premium models can handle any ISO-BUS connector-compatible implements. Simply attach the implement to the universal plug, and information about the implement is instantly displayed on the LCD monitor for adjustment and control. For ISO-BUS compatible implements, you won't need to install a control box, special monitor, extension, power source, or wiring.

### **Kubota Headland Control**

The M7 Headland Management System, Kubota Headland Control, works with ISO-BUS compatible implements to provide customizable programs of fully automated operations. For example, when the end of a row is reached, the operator can simply press a button to start a sequence of operations to automatically stop the implement, lift it, and lower it at the completion of the turn. The Headland Management System frees the operator to concentrate on maneuvering and helps ensure more precise turns and greater work efficiency. Different programs are available for different tasks, and each can be customized and retained in memory to suit special needs.



**Large touch screen 12" LCD monitor  
(Premium and Premium KVT models only)**

## FRONT LOADER

Carrying, lifting, material handling...these are jobs for front loader tractors. Kubota is committed to improving the ease and efficiency of front loader operations. Advanced loader systems on the M7 include a mechanical self leveling system that significantly increases the lifting height to 167 in. while providing an astonishing 5776 lbs. of front lifting power. A tight turning radius, excellent mobility, and better forward visibility further enhance operational efficiency. The loader control lever is conveniently located to enable quick, smooth, and intuitive control of front loader operations. The M7 pushes the envelope to achieve a new level of power and efficiency in front loader performance.

# Spirited



## Fully configured to handle a variety of implements and jobs

### Kubota Z-Bar linkage mechanical self-leveling

With no upper loader link to get in the way, Kubota's mechanical self-leveling system ensures an unobstructed view ahead.

### Front loader joystick

Kubota's Front Loader Joystick greatly simplifies front loader operations so you can concentrate on the work ahead. The joystick is located on the control console for smooth and effortless shifting and better forward visibility.

### Electrical control (Premium and Premium KVT models)



### Mechanical control (Standard model)



### Euro Quick coupler

With the Euro Quick Coupler you can attach and detach a wide variety of attachments with a quick and simple operation.



### Single-lever hydraulic valve quick coupler

With the pull of a single lever, an operator can quickly and simultaneously attach or detach all four hoses using a single lever, simplifying tasks that require hydraulic equipment.

### Quick attachment and detachment

Attaching and detaching the front loader doesn't get any easier, thanks to boom stands and two mounting pins. No tools are necessary! With simple and quick attachment and detachment, you'll be back to work in minutes.

### Kubota shockless ride (KSR)

The Standard KSR helps to minimize fatigue by "smoothing out" the ride of the tractor. This feature is particularly useful when your tasks include a lot of tight turns or lifting and dumping of heavy loads. It makes handling round bales far less jarring.

### Third function valve

A standard third function valve lets you work with a grapple bucket and other hydraulically controlled attachments. The valve is controlled by a single button conveniently located on the joystick grip.

# SPECIFICATIONS

## Specifications

Model		M7-131	M7-151	M7-171
<b>Engine</b>		KUBOTA V6108-CR-TIER4		
Type		Direct Injection, with Intercooler turbocharger, water-cooled 4 cycle diesel engine		
No. of cylinders		4 cylinders		
Total displacement	cu. in. (cc)	374 (6124)		
Bore x stroke	in. (mm)	4.65 x 5.51 (118 x 140)		
Rated speed	rpm	2200		
Rated power @2200 engine rpm (97/68EC)	HP	128	148	168
Boost power	HP	+20	+20	+5
<b>PTO</b>				
Rated PTO horsepower* @2000 engine rpm (OECD Code2)	HP	100	120	140
<b>Alternator / Battery</b>		200 Amp/174 Ah (20 hr) / 1400A		
<b>Fuel tank capacity</b>	gal. (ℓ)	87 (330)		
<b>DEF tank capacity</b>	gal. (ℓ)	10 (38)		

Grade variety		Standard	Premium	Premium KVT
<b>Transmission</b>				
Type		Powershift		CVT
Main gear shift		4-speed Powershift		CVT
Range gear shift		6-speed synchronized (GST)		CVT
No. of speeds		F24 / R24 (F40 / R40 w/ optional creep)		CVT
Max. traveling speed	mph (km/h)	25 (40)	25 (40) / 31.2 (50) option	
Shuttle shift		Electro-hydraulic shuttle		
Main clutch		Hydraulic multi-plate wet disc		
<b>Hydraulics</b>				
System		Pressure Compensated, Fixed Displacement	Closed center, load sensing	
Pump capacity	gpm (ℓ/min)	21 (80)	29 (110)	
3-point hitch		Telescopic lower link, Category 3 / 3N		
Control system		Electronic draft control / Lower link sensing		
Lifting capacity at lift end	lbs. (kg)	20723 (9400)		
Lifting capacity at 24in. behind (OECD)	lbs. (kg)	11797 (5350)		
No. of rear remote valves		Maximum 4 valves (mechanical valve)	Maximum 5 valves (Electronic valve)	
<b>PTO</b>				
Rear PTO speeds	HP	540 / 540E / 1000 / 1000E		
<b>Rear axle type</b>		Flanged axle	110" bar axle	
<b>Standard tire size</b>				
Front		14.9R28		
Rear		18.4R38		
<b>Dimensions and weight</b>				
Overall length	in. (mm)	188 (4770)		
Overall height	in. (mm)	119 (3030)		
Overall width	in. (mm)	98.4 (2500)	110 (2794)	
Wheelbase	in. (mm)	107 (2720)		
Shipping weight	lbs. (kg)	14546 (6598)		15097 (6848)

\* PTO horsepower will vary based on tractor configuration.

## Front Loader Specifications

Model		LM2605	
Leveling system		Kubota Z-bar linkage, mechanical self-leveling (MSL)	
Attachment		96 in. Bucket	
Compatibility		for M7 Standard models (Pressure Compensated, Fixed Displacement hydraulics)	for M7 Premium and Premium KVT models (Closed center hydraulics)
Control type		Mechanical lever	Electrial joy stick
Max. lifting height at bucket pivot pin	in. (mm)	167 (4250)	
Max. lifting height at bucket under level	in. (mm)	156 (3972)	
Clearance with bucket dumped	in. (mm)	131 (3321)	
Max. dumping angle	degree	59	
Max. roll-back angle	degree	42	
Digging depth	in. (mm)	3.9 (100)	
Lifting capacity at bucket pivot pin, max. height	lbs (kg)	5776 (2620)	
Lifting capacity at 800mm forward, max. height	lbs (kg)	5765 (2615)	
Breakout force at bucket pivot pin	lbs (N)	9069 (40342)	
Breakout force at 800mm forward	lbs (N)	7968 (35444)	
Bucket roll-back force at max. height	lbs (N)	5972 (26566)	
Bucket roll-back force at 59in.(1.5M) height	lbs (N)	11017 (49004)	
Bucket roll-back force at ground level	lbs (N)	10825 (48151)	
Raising time	sec.	6.4	5.4
Lowering time	sec.	8.1	8.1
Bucket dumping time	sec.	5.1	5.1
Bucket rollback time	sec.	4.6	4.6
Standard equipment		Third function valve, Single-lever hydraulic valve quick coupler, Accumulator (KSR: Kubota Shockless Ride)	

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