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Kubota

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KUBOTA DIESEL TRACTOR

M7-4 Series **M7-134/M7-154/M7-174**

Simple and reliable, the M7-4 Series brings even greater productivity and comfort to your farming applications.



Kubota

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**Kubota
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for maximum
performance,
durability and
safety



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Simple and reliable, the M7-4 Series brings a variety of new features to North American producers.

We carefully listened to the feedback from the North American market, and we are proud to announce the M7-4 series tractor. A variety of new features that bring a greater productivity and operator comfort to a wide range of farming applications. The M7-4 can be used in multiple applications such as loader work, hay, and small to mid-sized row-crop.

MODEL CONFIGURATION

Grade	Deluxe			Premium			Premium KVT		
Model	M7-134	M7-154	M7-174	M7-134	M7-154	M7-174	M7-134	M7-154	M7-174
Engine Max. horsepower (HP) *97/68EC	128	148	168	128	148	168	128	148	168
Rated PTO horsepower (HP) at 2000 Engine rpm (OECD Code 2)	100	120	140	100	120	140	100	120	140
Transmission	Semi-Power shift (F30 / R15)						CVT		
Hydraulics	Closed center, Load sensing (29 gpm, 110 lpm)								
Aux. valves	Mechanical			Electronic					
Rear axle type	110" bar axle								

**PTO horsepower will vary based on configuration.*

M7-4



List of M7-4 new features that bring greater productivity and comfort to your farming applications.

NEW
FEATURES



Greater productivity

	Deluxe	Premium	Premium KVT
Xpress Restart	●	●	–
Multi-Speed Steering Control	●	●	●
Parking Brake Switch	Opt.	Opt.	●
LED Work Lights	Opt.	●	●
Stationary PTO	●	●	●
Heated Electric Mirrors	Opt.	Opt.	Opt.

New LM2606 Front Loader

- New mechanical joystick with transmission controls on Deluxe model
- New easy to attach and detach mechanical Euro attachment lock
- New hydraulic Euro attachment lock
- New durable bushings allows increased service intervals and improved durability

More ease of use, operator comfort

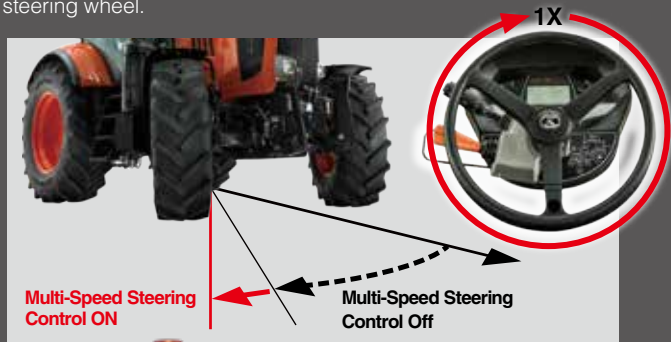
	Deluxe	Premium	Premium KVT
Automatic HVAC	Opt.	●	●
Interior Spot Light	●	●	●
Adjustable Armrest Position	●	●	●
Custom Start-up Gear setting	–	●	–
Color Coded Valve Lever	●	–	–
Valve Swap Function	–	●	●
Various Setting Control on K-monitor*	–	●	●

**Controls on K-monitor include shuttle modulation, PTO modulation, KVT sensitivity control, 2 settings of forward/reverse cruise control, and custom start up gear setting.*

For Optional equipments and functions, please consult to your local dealers on availability.

Multi-Speed Steering Control (MSSC)

The Multi-Speed Steering Control has 3 settings that help reduce operator fatigue and improve productivity. This is achieved by allowing the operator to set the turning width per rotation of the steering wheel.



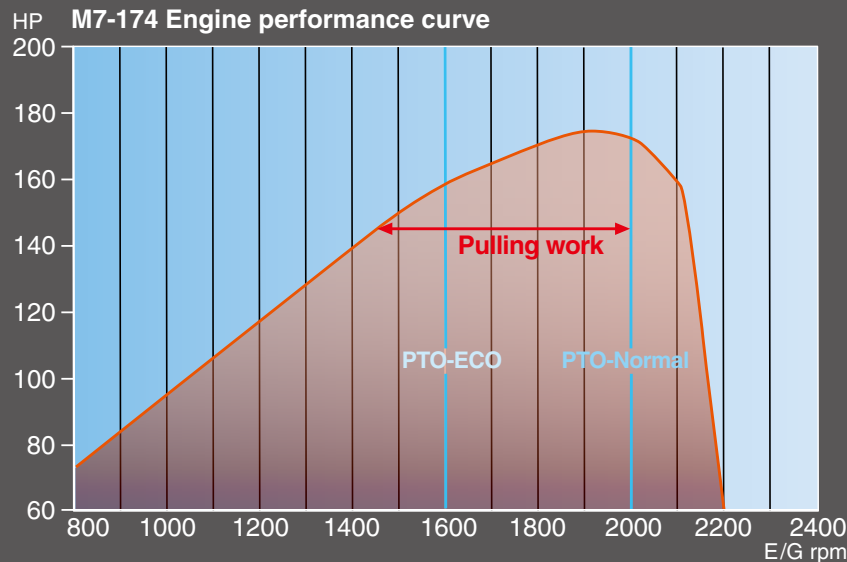
ENGINE

A powerful and reliable Kubota engine delivers greater productivity and fuel efficiency.

The M7-4's Kubota diesel engine has the power and efficiency to get any job done quickly while saving you money at the fuel pump. This rugged and reliable engine combines Kubota's DPF (Diesel Particulate Filter) with SCR (Selective Catalytic Reduction) technologies to not only reduce emissions, but also meet strict Tier 4 Final regulations.

Optimum Engine performance for Agricultural operations

Kubota V6108 engine rated engine speed is 2100rpm, and the maximum output speed is 1900 rpm. The result is an optimum performance and output in the engine speed range used for PTO and towing work. The lower engine speed also results in better fuel economy.



Kubota V6108 Engine



Engine specification by model			
Grade	M7-134	M7-154	M7-174
Model	Kubota V6108 Engine		
Emission standard	Tier 4 Final		
Displacement (cc)	6124		
Max. Engine (HP)	128	148	168
PTO HP Boost (HP)	20	20	5

PTO HP Boost

Power is the key to superior tractor performance and the M7-4 has plenty of power to quickly and efficiently handle any task. But in PTO applications, when more power is needed, the M7-4's PTO HP Boost is activated. This delivers more power to get you through the tough jobs.

Improved Fuel and DEF tanks

The new design of the Fuel/ DEF tank has allowed the steps to be integrated along the fuel tank. To let you work longer between refueling stops. The M7-4 models are equipped with a large fuel tank capacity of 330L and the DEF tank capacity 38L.



HYDRAULICS

Powerful and dependable hydraulics make your job easier than ever.

With the CCLS (Closed Center Load Sensing) hydraulic system in base on both Premium and Deluxe models, M7-4 offers maximum power and versatility at an affordable price. Premium models also offer an electro-hydraulic system that provides enhanced operational efficiency and the ability to multitask.

Closed Center Load Sensing (CCLS) Hydraulics

The M7-4 series now offers powerful and reliable, 29 GPM flow CCLS hydraulic system for all models.

Electronic hydraulics for Premium and Premium KVT models

The M7-4 Premium model offers electric hydraulic system that provides enhanced operational efficiency. It provides variable flow rate that can handle a variety of functions at the same time. Also, Hydraulic valve swap function is available for the electronic hydraulics; With this function, a remote control valve switch can be paired with any valve, as necessary.



Flow control adjustment system for Premium and KVT models

For Premium grade models, hydraulic flow control and swapping remote control valves can be done in K-monitor.

Flow control adjustment system for Deluxe models



Summary of Hydraulics specification by grade

	Deluxe	Premium	Premium KVT
Closed Center	●	●	●
GPM	29	29	29
Aux Valves	Mechanical	Electronic	Electronic
Number of Auxillary Contorol Valves	3 Std. 4 Opt.	4 Std. 5 Opt.	4 Std. 5 Opt.

Your choice between the two transmission offerings allows for optimum efficiency and productivity.

The Semi-powershift transmission provides 30 forward and 15 reverse speeds with the option for factory-installed creep when required. The KVT (Kubota Variable Transmission) offers an infinite number of forward and reverse speeds, letting you choose the right speed for each job.



Semi-powershift model (PST)

30 Speed Semi-powershift

Semi-powershift transmission provides an even greater range of gears - 30 forward and 15 reverse in total—letting you find the right gear for your application. Auto shifting function automatically evaluates the engine load, advances to the appropriate range gear, and adjusts the engine output accordingly, resulting in improved acceleration performance under light loads.

Auto shift (under light load)



Xpress Restart

Xpress Restart allows the operator to directly control the main clutch by simply pressing the brake pedals. The tractor can be stopped without using the clutch pedal, helping to ensure maximum convenience and productivity. Standard feature on all M7-4 PST models.

Optional Creep (For Semi-Powershift Models)

Some jobs can't be done properly at typical working speeds. That's why the M7-4 gives you 24 forward and 12 reverse creep speeds to let you do those jobs at extremely slow working speeds.

Kubota Variable Transmission (KVT) (Only for Premium grade)

Kubota's KVT transmission is widely praised for its performance and efficiency. The KVT transmission takes performance and efficiency to the next level, offering even better response to let you quickly find the ideal speed for the job at hand, including loader work.



Active Stop (Power Zero)

In the KVT model, active stop allows the tractor to be stopped without the need to continuously press the brake pedal or put the transmission in park, even on slopes. If stopped for 2 minutes, the parking brake is automatically engaged. To resume movement, shuttle into forward or reverse and press the accelerator pedal. Active stop is especially useful for jobs that require frequent starting and stopping, such as baling work or material handling operations.

Parking Brake Switch

With the new parking brake switch, operator fatigue is minimized by not having to engage a hand brake physically but by simply pressing the parking brake switch. Furthermore, when the operator leaves the seat while the engine is running, the parking brake automatically engages, shuttle changes to neutral, all without pressing the switch. Once the shuttle is switched to forward or reverse, the parking brake is disengaged. (Standard for KVT)

Supreme level of comfort ensures reduced operator fatigue.

Kubota knows how important comfort is when you work in the field. The M7-4 series spacious and four-post suspended cab ensures reduced fatigue. Plus, an Air-ride, deeply cushioned operator's seat with the armrest control, automatic HVAC system assure you work comfortably even after long hours of operation.



Automatic HVAC
Whether it's a sweltering hot or freezing cold, just set the desired temperature with the auto HVAC and the temperature inside the cabin will remain constant, allowing you to work comfortably. (Optional Equipment)



Spacious and Comfortable Operator's Seat
Kubota knows how important a comfortable seat is for achieving optimum productivity. That's why the M7-4's seat is spacious, deeply cushioned, and equipped with an air ride seat adjustable on the armrest.



3-Stage Front Suspension System
The M7-4's front suspension helps to maintain proper traction while the tractor has 3-point 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 a more comfortable, controlled ride during transport.

Electric Heated Side Mirror (optional equipment)

Cabin Suspension
The M7-4 cabin is available with your choice of suspension systems: mechanical (spring), rubber iso mount, or pneumatic cab suspension (available only for Premium models). Cabin suspension helps take the bumps out of the ride to keep you comfortable and efficient.

Suspension by Grade			
Part	Std/Opt	Deluxe	Premium/Premium KVT
Operator seat	Std.	Air-ride	Air-ride
	Std.	Rubber mount	Mechanical
Cabin	Opt.	Mechanical	Pneumatic
	Std.	Without suspension	Without suspension
Front axle	Opt.	With suspension	With suspension

Designed to make your operation simpler and more intuitive.

Carefully listening to the North American customers feedback, the M7-4 has envisioned even more ergonomic, easy-to-use control system. For Premium grade models, you are now able to adjust various settings through the K-monitor, an all-in-one terminal. Plus, an ergonomic console layout, applicable to both Premium and Deluxe grades, assures simple and minimal hand and foot movement.

Premium Grade Console Layout

Premium Grade models are equipped with K-monitor, all-in-one terminal as standard; 7" is standard, 12" is optional.



Large 12" LCD Touch Screen Monitor (Optional Equipment)*

- ISOBUS compatible
- Kubota Headland control

*Premium and Premium KVT models only.

Various settings control through K-monitor

- Shuttle modulation (sensitivity control)
- PTO modulation
- KVT sensitivity control (for KVT)
- Hydraulic valve swap function
- Cruise control setting (2 sets of forward and reverse)



7" LCD Monitor (Standard Equipment)*

ISOBUS compatibility, Headland management system and other setting control systems are also available with the standard 7" monitor.



Deluxe Grade Console Layout



Multi-Fnction Lever

M7-4's major functions are puts on a single easy-to-use control console; Your right hand is always on the lever, leaving your left hand free for steering. (Lever for Premium KVT model is shown. Buttons depend on T/M or grades)



- A. Auto shift (Semi-powershift) Cruise (KVT)
- B. 3P Hitch Up/Down Button
- C. Shuttle Button
- D. Rear hydraulic controls

- E. Speed Steps (Main & Range) Lever
- F. Range Gear Shift (Semi-powershift) Ratio Lock (KVT)

New Steering and Dashboard

M7-4's new steering wheel assures you more comfort and less fatigue after long hours of use.



Variety of options that makes M7-4 more adaptable and productive.

To meet modern farming needs, the M7-4 offers options that can enhance versatility, improve productivity, and increase diversification. These options include LED Work Lights, a 110-inch long Bar Axle, a larger diameter PTO shaft, and so forth. Together these options make the M7-4 an even better choice for a wide variety of farming tasks.

LED Work Lights

Powerful LED lights ensure excellent visibility when working early in the morning or late at night. (Lighting package will depend on trim level of the tractor)



Image of night time operation with LED work lights
**European M7 model is shown.*

110 inch Long Bar Axle

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 by using a single control switch with automatic modulation for smooth engagement.

Stationary PTO

Now you can use PTO system with the tractor in a stationery position, which is often required for feed mixing operations. To utilize the function, make sure to engage the parking brake and to shuttle into neutral, then push the stationary PTO switch beneath the steering wheel.

Auto PTO On/Off with 3-Point Hitch Position (Only on Premium and Premium KVT models)

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 reengages when the linkage is lowered.

External PTO Switch / 3P Hitch Control

PTO On/Off and 3P hitch position can be controlled from the external fender buttons, which enables your work to be smoother and more efficient.



Fully configured to handle a variety of implements and jobs.

Advanced loader systems on the M7-4 includes a mechanical self-leveling system capable of reaching a lift height of 167in. while providing a lift capacity of 5776lbs. allowing you to lift two 5 X 6 round bales. The loader control lever is conveniently located to enable quick, smooth, and intuitive control of front loader operations. The M7-4 pushes the envelope to achieve a new level of power and efficiency in front loader performance.



Variety of Standard Features Kubota New LM2606 Front Loader offers:

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.

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, which simplifies the process of removing and attaching the loader.

Kubota Shockless Ride (KSR)

The Standard KSR helps to minimize fatigue by "smoothing out" the ride in the field. 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.

New Front Guard

The new front guard is now included in the front loader LM2606 package.

New LM2606 joysticks provide maximum productivity for any types of Front loader operations.



New Mechanical Front Loader Joystick

A new front loader mechanical control joystick simplifies front loader operations in all M7-4 Series Deluxe models. The new joystick is equipped with shuttle shift and range gear shift buttons, eliminating the need to frequently switch your grip between the joystick, steering wheel, and shift lever. The joystick lever and switches are ergonomically designed and located for optimum operator comfort. (The Premium and Premium KVT feature the electronic joystick.)

Euro Attachment Lock for Fast Implement Attachment and Detachment

The standard mechanical Euro Attachment Lock is now equipped with a new bucket-back locking system, that allows front implements to be attached at any height of the boom without the need to roll back the implement, reducing the time and effort.

Great durability and maintainability

All pin joints feature a new, highly durable bushing that improves wear resistance. This new bushing also requires less frequent lubrication—just once every 30 hours rather than the industry standard of 10 hours—thereby improving durability and reducing maintenance costs.

Standard 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 switch conveniently located on the joystick grip.



Front



Rear

- A. 3rd Function
- B. Shift up/down
- C. Suttle Forward / Reverse

- D. 4th Function
- E. Shuttle enable button

SPECIFICATIONS

Specifications

Model	M7-134		M7-154	M7-174
Engine	KUBOTA V6108-CR-TIER 4 Final			
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 × stroke	in. (mm)	4.65 × 5.51 (118 × 140)		
Rated speed	rpm	2100		
Max. power @ 1900 engine rpm (97/68EC)	HP	128	148	168
Boost power	HP	+20	+20	+5
PTO				
Rated PTO horsepower* @ 2000 engine rpm (OECD Code 2)	HP	100	120	140
Alternator / Battery	200 Amp/174 Ah (20 hr) / 1400A			
Fuel tank capacity	gal. (ℓ)	87 (330)		
DEF tank capacity	gal. (ℓ)	10 (38)		

Grade variety		Deluxe	Premium	Premium KVT
Transmission				
Type		Semi-Powershift		CVT
Main gear shift		6-speed Powershift		CVT
Range gear shift		5-speed synchronized (GST)		CVT
No. of speeds		F30 / R15 (F54 / R27 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		
Hydraulics				
System		Closed center, load sensing		
Pump capacity	gpm (ℓ/min)	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)	20,723 (9,400)		
Lifting capacity at 24in. behind (OECD)	lbs. (kg)	11,797 (5,350)		
No. of rear remote valves		Maximum 4 valves (mechanical valve)	Maximum 5 valves (Electronic valve)	
PTO				
Rear PTO speeds		540 / 540E / 1,000 / 1,000E		
Front PTO speed		1,000		
Rear axle type				
		Flanged axle or 110" bar axle		
Standard tire size				
Front		14.9R28		
Rear		18.4R38		
Dimensions and weight				
Overall length	in. (mm)	188 (4,770)		
Overall height	in. (mm)	121.7 (3,091)		
Overall width	in. (mm)	110 (2,794)		
Wheelbase	in. (mm)	107 (2,720)		
Shipping weight	lbs. (kg)	14,546 (6,578)		

* PTO horsepower will vary based on tractor configuration.

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Front Loader Specifications

Model		LM2606	
Leveling system		Kubota Z-bar linkage, mechanical self-leveling (MSL)	
Attachment		96in. Bucket	
Compatibility		For Deluxe grade (Closed center hydraulics)	For Premium and Premium KVT models (Closed center hyd.)
Control type		Mechanical joystick	Electrical joystick
Max. lifting height at bucket pivot pin	in. (mm)	167 (4,250)	
Max. lifting height at bucket under level	in. (mm)	156 (3,972)	
Clearance with bucket dumped	in. (mm)	130 (3,302)	
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)	5,776 (2,620)	
Lifting capacity at 800mm forward, max. height	lbs (kg)	5,765 (2,615)	
Breakout force at bucket pivot pin	lbs (N)	9,069 (40,342)	
Breakout force at 800mm forward	lbs (N)	7,968 (35,444)	
Bucket roll-back force at max. height	lbs (N)	5,972 (26,566)	
Bucket roll-back force at 59in.(1.5M) height	lbs (N)	11,017 (49,004)	
Bucket roll-back force at ground level	lbs (N)	10,825 (48,151)	
Raising time	sec.	5.4	
Lowering time	sec.	8.1	
Bucket dumping time	sec.	5.1	
Bucket rollback time	sec.	4.6	4.2
Standard equipment		Third function valve, Single-lever hydraulic quick coupler,Accumulator (KSR: Kubota Shockless Ride)	

LM2606 Configuration Chart

	Standard in LM2606	Dealer install option
Front Grill Guard	●	-
3rd Function	●	-
Single Lever Hose Quick Coupler	●	-
Accumulator (KSR)	●	-
Mechanical Euro Attachment Lock	●	-
Hydraulic Euro Attachment Lock	-	●
Bucket & Bucket Cutting Edge kit	-	●
4th Function Kit	-	●
Single Lever Quick Coupler for 3rd and 4th Function	-	●