

Hay Mergers

**MERGE MAXX<sup>®</sup>**  
**MM 300 / 700**



[www.KuhnNorthAmerica.com](http://www.KuhnNorthAmerica.com)



**Invest in Quality<sup>®</sup>**

MERGE MAXX® MM 300 / 700

# MAXIMUM PRODUCTIVITY AND PERFORMANCE

## HIGH-QUALITY FORAGE

High-quality forage requires top-quality machinery. The cleanest and most efficient way to put up high-quality forage is with a pickup-style belt merger. KUHN mergers produce the fluffiest, easiest harvesting windrows which are ideal for today's powerful forage harvesters and balers.

## SIMPLE TO USE

Both KUHN MM 300 & 700 mergers are designed for easy use and simple adjustments. Ultimately, this makes you more efficient in your crop harvesting, while keeping your forage cleaner than any other crop gathering system.

## MULTIPLE WINDROW OPTIONS

From narrow windrows to wide swaths, these models offer the broadest range of merging options to best match different harvesting practices and field conditions.

## LONG-TERM VALUE

These durable machines are built to last and will provide you with years of low maintenance. Overbuilt designs will increase your peace of mind and protect the machine's resale value.

## HAY MERGERS

MM 300 / 700

in brief

Models	Pickup Width	Transport Width	Horsepower Requirement
MM 300	9'10"	12'6"	50 hp
MM 700	23'10"	10'	100 hp



# THE DIFFERENCE IS CONTROL

## Cutting-Edge Merge Maxx® Hay Mergers

When it comes to merging crop, a tough, durable pickup that operates in varying conditions is the first and most critical step. Merge Maxx pickups are designed to be the most dependable whether merging fine, delicate legumes, thick, heavy grass or anything in between with utmost regards to cleanliness and proper crop delivery to the belt. Outstanding flotation characteristics and an overbuilt design makes merging a simple and low-maintenance job.



### HIGH-CAPACITY PICKUPS

Commercially designed pickups treat crop gently yet are designed and tested for extreme use. Chrome-moly tine bars greatly improve strength and wearing characteristics. The dual cam design with heavy-duty sealed cam followers provides ultra-long life even in the toughest conditions.



### MM 700 BEARING WEAR GUARDS

Exclusive in the industry, standard bearing wear guards maximize tine bar life by providing an easily replaceable split mounting surface. If you're merging in abrasive soils, you'll especially appreciate this feature as a wear guard can be replaced, with the tine bar installed, in under one minute.

Wear guards shown in black.



### SPLIT BEARING DESIGN

The two-piece poly tine bar bearing greatly simplifies periodic maintenance. Unlike competitive machines which must remove tine bars and tines to replace worn bearings, the split design allows you to replace the bearing in under one minute. Additionally, bearing life is maximized and friction properties are minimized with a specially formulated bearing material.



### MM 700 ANTI-WRAPPING GUARDS

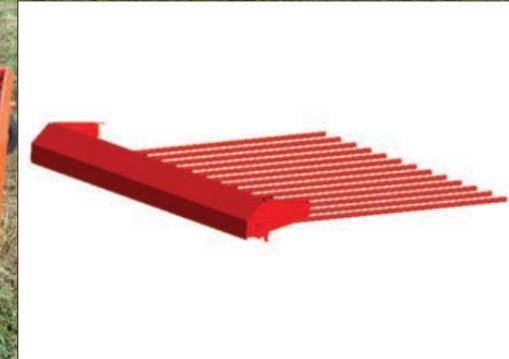
To minimize wrapping in long crops, such as oats or long grasses, HDPE anti-wrapping discs are installed at the ends of the pickups and rotate with the tine bars. This small improvement greatly reduces the dead space, where long crop likes to wrap, as seen with all pickup style mergers.

PATENT PENDING



### MM 300 STANDARD WINDGUARD

This standard curved windguard greatly helps create fluffy well-formed windrows by keeping crop close to the pickup and delivering it to the center of the belt. This control smooths out crop bunching, resulting in improved harvester efficiency. Simple adjustment points on each end allow the operator to tailor the windguard to the exact crop type and volume.



### MM 300 HIGH-CAPACITY WINDGUARD

The optional high-capacity windguard is tailored to operators who are merging higher volume crops such as ryegrass. The straight design of the windguard reduces any chance of plugging at high speeds. As with the standard curved windguard, you can easily adjust it to match your specific crop type and volume.



### MM 700 NEXT GENERATION FLOATING WINDGUARD

The floating windguard used on the MM 700 eliminates the need to make routine adjustments when merging different crops or cuttings. The simple geometry of the floating linkage means the windguard is automatically optimized for differing volumes of crop. The long, curved guiding fingers provide excellent crop guidance onto the belt for fluffy, even windrow creation.



#### HEAVY-DUTY CONVEYOR

The 15-degree angled conveyor provides a seamless transition for the crop as it comes off the pickup. This allows the full capacity of the belt to be utilized in addition to naturally inverting the crop upon discharge.



#### BELT TENSION

The conveyor belt is self-cleaning and requires no tracking adjustment. The quick-release tensioning system simplifies storage and maintenance.

MERGE MAXX® MM 300

# VERSATILITY HAS NEVER BEEN SO SIMPLE

The KUHN MM 300 is the merger for you if you're looking for high performance and simple operation at an economical price. Designed to work with mower conditioners from 9' to 18' of cutting width, this merger features a wide pickup and belt cross conveyor that can easily be shifted for ideal windrow placement. The windguard, exclusive in its class, evens out crop flow for superior windrow uniformity. Quickly merge two swaths into one in a single pass or three windrows into one in two passes for improved harvester efficiency.



#### OUTSTANDING FLOTATION

The floating pickup assembly follows the terrain, supported by large-diameter gauge wheels that set the pickup height. This maintains the tine height so that valuable forage is picked up and the crop stubble is protected.



#### SIMPLE DRAWBAR ATTACHMENT

Attachment to the tractor is simple. The drawbar hitch allows for fast attachment without cumbersome hitch extensions.



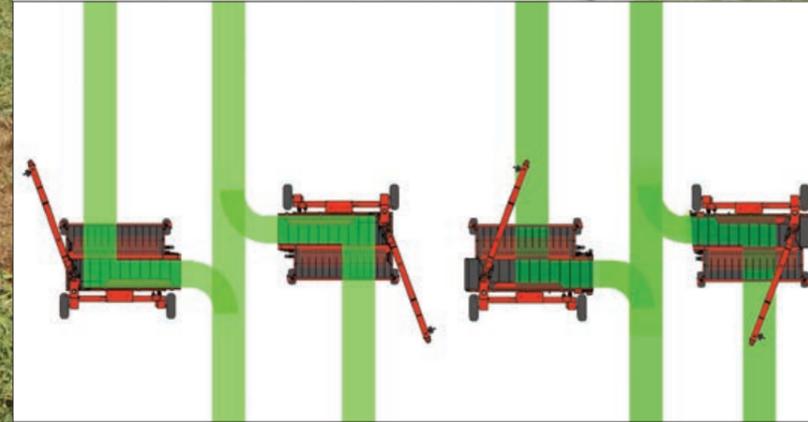
#### SELF-CONTAINED HYDRAULICS

Attaching directly to the tractor PTO, the self-contained hydraulic drive allows the merger to be operated by most tractors regardless of hydraulic capacities.

MERGE MAXX<sup>®</sup> MM 300

# TAILORED TO YOUR OPERATION

Every operation is different — different crops, different mower conditioner widths, and different chopper and baler sizes. Optimize your MM 300 with optional features that best match your particular merging desires.



# MULTIPLE MERGING OPTIONS

The merger can be operated pulling directly behind the tractor, extended all the way to the right, or anywhere in between for compatibility with various sized mower conditioners.



## IN-CAB CONTROL TERMINAL

The optional electro-hydraulic controls manage merger functions on the go; fine-tune pickup speed, gather crop at end rows, shift the conveyor, and engage the optional extension, all conveniently from the tractor seat.

All of the following options require the in-cab control terminal.



## CONVEYOR SIDE SHIFT

You can manually adjust the conveyor up to 2 feet to the right to match up with differing mowers and windrow widths. With the optional hydraulically controlled conveyor side shift, you can perform the same function without leaving the cab. This is especially useful if merging behind multiple cutting units of varying widths.



## HYDRAULIC ON/OFF CONTROL

Create clean windrows with neat ends to maximize crop uptake and simplify the harvesting process. The simple, single button control allows the belt to be disengaged quickly to keep the crop from being sent into the headland at end rows. The gathered crop can then be sent into the subsequent windrow.



## 3' FOLDING CONVEYOR

The optional conveyor extension allows operation with mower conditioner cutting widths up to 18'. The extension automatically disengages when folded, while the main conveyor continues to operate.



## ELECTRONIC VARIABLE PICKUP SPEED CONTROL

A manual valve is located on the machine for adjustment as needed. With the optional electronically controlled system, you can quickly and easily adjust the pickup speed from inside the cab on the go to perfectly match crop conditions. With this option you can maximize leaf retention, especially if merging drier legumes such as alfalfa.



#### MULTIPLE DELIVERY OPTIONS

As standard, the MM 700 can merge crop to the left, right, split, or if needed, with either wing in the raised position. Having the ability to raise the wings independently is particularly useful for opening up fields or cleaning up point rows in irregularly shaped fields.



#### SUSPENSION

A simple and effective mechanical suspension system is utilized for superior float characteristics. The unique design, inspired by the proven KUH N trailed mower, eliminates complicated hydraulic requirements and the need for tractor float valve engagement unlike other mergers in the industry.

MERGE MAXX® MM 700

# DOUBLE DOWN ON YOUR PRODUCTIVITY

With 23'10" of pickup in a single pass, the MM 700 merger has 90% of the capabilities of a 30' merger at a substantially smaller price point. It is unique in the industry and unmatched in its simplicity of operation, durability and merging capabilities.

There are two models available. The basic machine is designed for operators who desire simple machines to operate (useful with low skilled labor) and main adjustments for pickup speed, and belt direction must be performed manually on the machine.

The deluxe model comes with a simple and straight forward control terminal which can adjust pickup speed, belt direction and belt shutoff from the cab.



#### HEAVY-DUTY CONVEYORS

Commercial grade, single ply belt conveyors allow the crop to be effectively transitioned into the windrow, regardless of discharge side. The conveyor belt is self-cleaning and requires no tracking adjustments. The quick release tensioning system simplifies storage and improves belt life by making periodic adjustments easier and therefore, more likely to be made.



#### CROP NETTING

Standard crop netting greatly limits leaf loss during transition to the belt and ultimately improves leaf incorporation in the windrow. You can adjust the netting from being fully extended to halfway to match your needs.



#### MANUAL PICKUP HEIGHT ADJUSTMENT

Quickly adjust pickup height for each head in between crops or when field conditions dictate. Turnbuckles can be adjusted with little effort and locked.

# OPTIMIZED FOR YOUR CONDITIONS



## NO STEERING NEEDED

Due to its short wheelbase, the MM 700 does not require steering, even on steep sidehills, unlike competitive machines. This simplification reduces routine maintenance and improves overall reliability.

## SELF-CONTAINED HYDRAULICS

Belts and pickups are driven using the on-board hydraulic pumps with hydraulic oil from a 38-gallon reservoir. This large capacity ensures that cool oil is always being circulated through the system. The massive reservoir surface area and specifically designed system provide excellent cooling in even the hottest conditions.



## 2-POINT HITCH

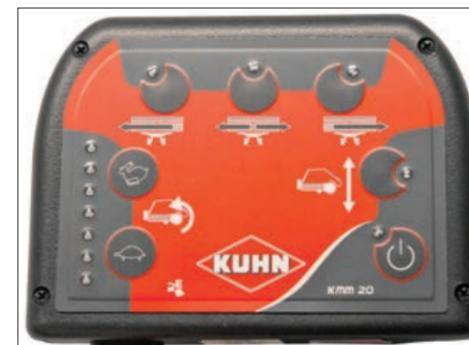
The specially designed 2-point makes hookup quick and easy. The swiveling headstock eliminates driveline chatter and allows up to 90-degree turns. The hitch is Cat. 2/3N/3 quick hitch compatible.

## DELUXE MODEL ONLY



## NARROW AND SIMPLE TRANSPORT

This smooth folding design allows quick transition from field to road. Transport is an ultra-narrow 10' wide. Balanced tongue weight during transport and in the field helps you maintain control at all times.



## IN-CAB CONTROL TERMINAL

With this simple terminal you can rapidly make all common in-field adjustments. Quickly select and change conveyor belt direction, shut off belts at headlands and if equipped, change pickup speed to match crop conditions. You are also able to hydraulically adjust the pickup height if the hydraulically adjustable skid shoe option is purchased.



## ELECTRONIC VARIABLE PICKUP SPEED CONTROL

With the Deluxe model, quickly and easily adjust pickup speed inside the cab on-the-go to perfectly match crop conditions. With this you can maximize leaf retention, especially if merging drier legumes such as alfalfa. In heavy, grass crops, the pickups can also be sped up to promote faster working speeds.



## HYDRAULIC ON/OFF BELT CONTROL

Create clean and neat ends of windrows to maximize crop uptake and simplify the chopping process. The simple single button control allows for the belt to be disengaged quickly to keep crop from being sent into the headland at end rows. Gathered crop can then be sent into the subsequent windrow.

# OPTIONAL EQUIPMENT

MERGE MAXX MM 700



## WIDE TIRES

Wider, 500/45 – 22.5 flotation tires can be installed for use on soft ground or when extra flotation is needed.



## SWATHBOARD

The optional swathboard mimics the windrow formation of a rotary rake. With this simple bolt-on device, you can make a well formed, boxy windrow, well suited for a baler. Additionally, forage harvester operators will find it improves windrow formation even further, increasing harvester efficiency. This cannot be used in conjunction with the 4' belt extension.



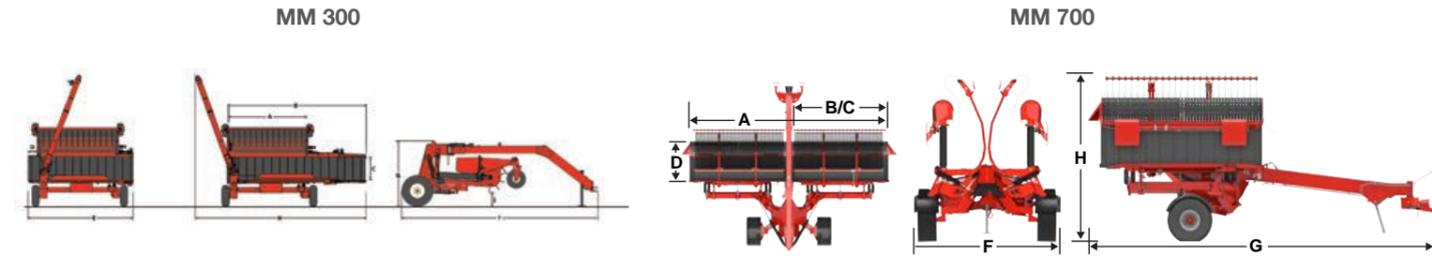
## 4' BELT EXTENSION

The 4' belt extension allows optimal merging capability behind a 15'–18' mower conditioner. It includes a bolt-on frame and belt extension, giving you the ability to merge up to 90' of crop together in a 10' or less windrow to maximize harvester efficiency.



## HYDRAULICALLY ADJUSTABLE SKID SHOES (Deluxe Model Only)

The optional hydraulically adjustable skid shoes allow an operator to easily make pickup height changes from the cab. A standard reference gauge on the machine allows for the operator to easily identify his preferred pickup height.



## Model Specifications

	MM 300	MM 700 BASIC	MM 700 DELUXE
<b>DIMENSIONS</b>			
A – Pickup Working Width	9'10" (3 m)		23'10" (7.3 m)
B – Individual Pickup Width	9'10" (3 m)		11'11" (3.6 m)
C – Conveyor Length	12'9" (3.9 m)		11'10" (3.6 m)
D – Conveyor Width		3' (.9 m)	
E – Conveyor Shift (Manual or Hydraulic)	2' (.6 m)		–
F – Transport Width	12'6" (3.8 m)		10' (3.1 m)
G – Transport Length	15'8" (4.7 m)		24'6" (7.5 m)
H – Transport Height	5'3" (1.6 m)		12'
– Transport Height (with Extension Conveyor)	6' (1.8 m)		–
I – Overall Field Position Width (Cross Conveyor Shifted in)	15'3" (4.6 m)		–
– Overall Field Position Width (Cross Conveyor Shifted out)	17'2" (5.2 m)		–
J – Pickup Headland Clearance Height	13" (.3 m)		Infinite
<b>SPECIFICATIONS</b>			
Pickup Height		5/8" – 3 1/8"	
Header Flotation	Gauge Wheels		Springs
Header Suspension Travel	15"		14" (+8", -6")
Total Number of Pickups & Conveyors	1		2
Discharge Capability	Right		Right, Left or Split
Unit Weight	3,630 lbs. (1,647 kg)		9,800 lbs. (4,445 kg)
Hitch Type	Drawbar		2-Point Cat. 2/3/3N
Self-Contained Hydraulic Drive		Standard	
Number of Tine Bars	5		6
Cam Follower		Sealed Roller Bearings	
Highway Transport Lights		Standard	
Tire Size	9.5L x 15 (8 Ply)		16.5L x 16.1 (10 Ply)
Optional Tire Size	–		500/45 – 22.5 Flotation
Gauge Wheel Size	18 x 8.5 x 8		–
3' Conveyor Extension for Mowing Width from 15' – 18'	Optional		–
4' Belt Extension (Right side only)	–		Optional
Transport Safety Chain		Optional	
Electro-Hydraulic Controls	Optional	–	Standard
Belt Direction Adjustment	–	Manually on Machine	In Cab
Belt Shutoff	Optional in Cab (Requires Control Terminal)	–	In Cab
Pickup Speed Adjustment	Standard – Manually on the Machine Optional – Requires Control in Cab Terminal	Manually on Machine	In Cab
<b>Tractor Requirements</b>			
– Minimum Hydraulic Ports Required		2 DA	
– Minimum Flow	6 GPM at 1500 PSI		10 GPM at 1650 PSI
– PTO Speed	540 or 1000 RPM		1000 RPM
– Minimum PTO	50 hp (37 kW)		100 hp (75 kW)

Note: MM 700 Basic machines cannot be upgraded to Deluxe machines in the field.

# COMPLEMENTARY PRODUCTS

## MORE PRODUCTS TO MEET YOUR NEEDS

With over 700 models of equipment, we have the most complete implement line in the industry. Whether you have a small or large operation, we have a broad range of models and options to help fit your diverse needs.



1. Mowers
2. Mower Conditioners
3. Tedders
4. Balers
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