



Merge Maxx[®] Commercial Hay Mergers
TWIN & TRIPLE



MAXIMUM PRODUCTIVITY & PERFORMANCE

KUHN MERGE MAXX® HAY MERGERS ARE THE WIDEST AND MOST EFFICIENT MERGERS ON THE MARKET TODAY, CREATING FLUFFY, EASY-TO-HARVEST WINDROWS. THEY ARE UNIQUE IN THE INDUSTRY AND UNMATCHED IN SIMPLICITY OF OPERATION, DURABILITY AND MERGING CAPABILITIES.



QUICK AND EASY TO USE

KUHN hay mergers are designed so you can easily make adjustments without having to leave the comfort of the tractor cab. This helps with your crop harvesting and results in higher quality forage.

SUPERIOR WINDROWS

Commercial-grade conveyors effectively transition forage into the windrow, regardless of discharge direction. Consistent, fluffy windrows improve harvesting efficiency and promote frustration-free haymaking.

Models	No of Pickups & Conveyors	Model Type	Continuous Pickup Width	HP Requirement
MM 701	2	Side Delivery	24' (7.3 m)	100 hp (75 kW)
MM 890	2	Side Delivery	30' (9.1 m)	120 hp (90 kW)
MM 950	2	Center Delivery	24'6" (7.5 m)	85 hp (63 kW)
MM 1090	2	Center Delivery	33'9" (10.3 m)	95 hp (71 kW)
MM 1101	3	Side Delivery	36' (10.97 m)	140 hp (104 kW)
MM 1301	3	Side Delivery	42' (12.8 m)	140 hp (104 kW)

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FLOATING SKID SHOES

Dual, wide skid shoes allow each head to rapidly adapt to undulating field conditions while maintaining a very low ground pressure. Floating skid shoes are a KUHN exclusive. The pivoting action allows the pickups to float over pivot tracks and rough terrain. Additionally, the special shape and pivoting of the shoe allows for self-cleaning when lifted into the headland position to eliminate crop buildup. The skid shoes are reversible on their mounts for even wear and longer life.



NARROW AND SIMPLE TRANSPORT

The simple folding design allows quick transition from field to road. Transport is a narrow 9'10" (3 m) on the MM 950 and MM 1090, 10' (3 m) wide on the MM 701, 10'3" (3.1 m) wide on the MM 890 and 12'1" (3.7 m) on the MM 1101 and MM 1301. Balanced tongue weight during transport and in the field helps maintain control at all times.

TAKING EFFICIENCY...TO THE MAXX

With up to 42' (12.8 m) of pickup in a single pass, KUHN MM Merge Maxx® hay mergers are the largest and most efficient machines on the market today. They are unique in the industry and unmatched in simplicity of operation, durability and merging capabilities.

These mergers move crop quickly and cleanly to make uniform windrows for easy pickup with either a forage harvester or baler. Various types of rakes can lead to increased incorporation of ash, dirt or stones in your windrow which can significantly impact your bottom line. You can depend on KUHN twin and triple hay mergers to provide a clean, consistent windrow along with improved leaf retention for nutrient rich hay and forage. By having a clean, uniform windrow, your baler or forage harvester will be more efficient, being able to maintain more consistent ground speeds with fewer stops.



HEAVY-DUTY CONVEYORS

Commercial-grade belt conveyors allow the crop to effectively transition into the windrow, regardless of discharge side. The conveyor belt is self-cleaning and requires no tracking adjustments. Each conveyor has an easy-to-access splice for fast removal or replacement if necessary due to maintenance or normal wear.



HYDRAULIC CONTROLS

The hydraulic drive pumps oil through the main hydraulic blocks to run all the functions on each head including pickup speed, belt direction and skid shoe height.



HYDRAULICALLY ADJUSTABLE PICKUP HEIGHT

The hydraulically adjustable pickup height allows an operator to easily make changes from the ISOBUS terminal to the skid shoes. Height change is synchronized and accomplished through a cylinder mounted on each head. Relative head height is visible via the gauge on the terminal.

HAY MERGERS MM 701 / 890 / 950 / 1090 / 1101 / 1301

VERSATILE & ADAPTABLE TO MEET YOUR NEEDS



MULTIPLE DELIVERY OPTIONS

The MM 701, 890, 1101 and 1301 can merge crop to the left, right, split or with either wing in the raised position. Having the ability to raise the wings independently is particularly useful for opening up fields, merging around obstacles or cleaning up point rows in irregularly shaped fields.

MM 950 and 1090 mergers can merge crop to the left, right, center, or split, creating eight different delivery methods to best match your operation's harvesting needs.

NO STEERING AXLE NEEDED

Merge Maxx® twin and triple mergers do not require a steering axle, even on steep hillsides. This is a result of the short wheelbase and is an advantage over competitive mergers. This simplification reduces routine maintenance and improves overall reliability. An added benefit of the short wheelbase is reduced tongue weight, so the tractor does not get "pushed around" by the merger.



BELT TENSION ADJUSTMENT

The quick-release belt tensioning system simplifies storage and routine adjustment. Easy adjustment from one side maintains uniform pressure over the width of the belt. It is recommended to take the tension off of the belts in between cuttings and during the off season.

HAY MERGERS MM 701 / MM 890 / MM 1101 / MM 1301

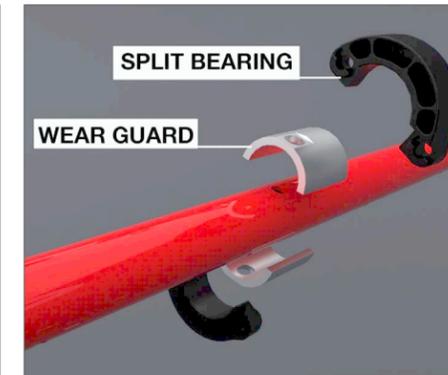
IT ALL STARTS WITH THE PICKUP

When it comes to merging crop, a tough, durable pickup that operates in varying conditions is the first and most critical step. Merge Maxx 701, 890, 1101 and 1301 pickups are designed to be the most dependable whether merging fine, delicate legumes, thick, heavy grass or anything in between. Outstanding flotation characteristics and an optimized design makes merging a simple and low-maintenance job.



SPLIT BEARING DESIGN

The two-piece poly tine bar bearing greatly simplifies periodic maintenance. Kuhn MM hay mergers now have a new tine bolt with fewer pieces. The specially designed bolt holds itself so only one wrench is needed to change pickup tines.



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 set can be replaced, with the tine bar installed, in under one minute.



ANTI-WRAPPING DISCS

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





CONSTANT FLOAT® SUSPENSION

A simple and effective mechanical suspension system is utilized for superior flotation. This unique design, inspired by the proven KUHN trailed disc mowers, eliminates complicated hydraulic requirements and the need for tractor float valve engagement, unlike other mergers in the industry.



2-POINT HITCH

The specially designed 2-point hitch makes hookup quick and easy. The swiveling headstock eliminates driveline chatter and allows up to 90-degree turns. The hitches on all KUHN MM hay merger models are quick hitch compatible. An integrated stand on each merger provides a large footprint and swings and locks easily when attached to the tractor.



HYDRAULIC ON/OFF BELT CONTROL

When raising the pickups at the headlands, the belts and pickups automatically turn off to keep crop from being sent into the headland at the end rows. Operators can lower the pickups to the working position when coming back into the windrows to make the pickups automatically turn back on and deposit the remaining crop into the windrow. A single button allows for only the belt to be disengaged in the working position to gather any extra or missed crop and then place it in the windrow.



HIGH-CAPACITY PICKUPS WITH INTEGRATED FRAMES

Commercially designed pickups treat crop gently, yet are built and tested for extreme use. A high-strength, steel alloy greatly improves wearing characteristics. The dual-cam design, with large, heavy-duty, sealed cam followers, provides extra-long life even in the toughest conditions. KUHN high-capacity pickups are designed and built with integrated frames to improve the strength and durability. The integral frames eliminate areas crop can pinch underneath the head keeping the belts running at peak efficiency.



CROP NETTING

Standard crop netting limits leaf loss during transition to the belt and ultimately improves leaf incorporation in the windrow. Users can adjust the netting from fully extended to halfway or fully retracted to match their needs.



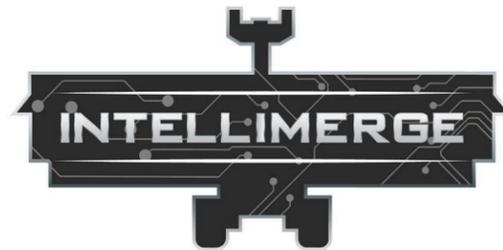
FLOATING WINDGUARD

The floating windguard 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 fingers provide excellent crop guidance onto the belt for fluffy, even windrow creation, increasing harvest speed.



THE DIFFERENCE IS CONTROL

One key to achieving the productivity you expect from your KUHN machine is the user friendly interfaces we offer. Users can tailor their machine to their field and crop conditions to maximize efficiency. We listened carefully to our customers to develop our user interfaces and monitors. The objective is to have a clear view of what your machine is doing at any time and to have all the important settings at your fingertips. The IntelliMerge™ ISOBUS control system allows the operator to run the machine, make adjustments, receive performance feedback and carry out diagnostics from the comfort of the cab. When adding a CCI 800 or CCI 1200 monitor to a non-ISOBUS tractor, the displays can be used with other ISOBUS compatible machines when not used with the merger.



INTELLIMERGE™ ISOBUS CONTROL SYSTEM

The IntelliMerge™ ISOBUS control system provides operators with simple push button controls, as well as an intuitive layout of key machine performance factors. The system also includes an acre counter and has the ability to disable certain sensors so the operator can finish up a field with limited functionality if a sensor fails.

OPTISENSE™ BELT STALL INDICATOR

The OptiSense™ belt stall indicator alerts the operator when the belts start to slow down when approaching the maximum capacity of the machine. This gives the operator a chance to react before the machine plugs. If the belts stop, the system will shut down the machine to avoid damage to the belts and prevents further plugging of the machine.

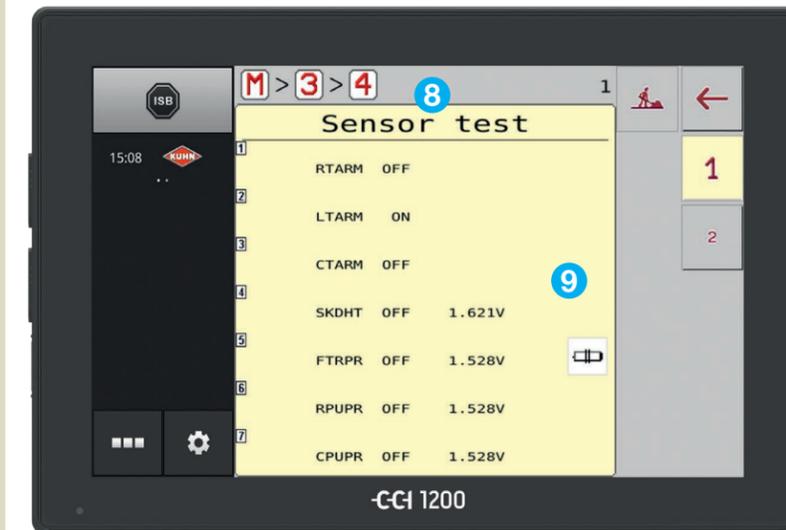
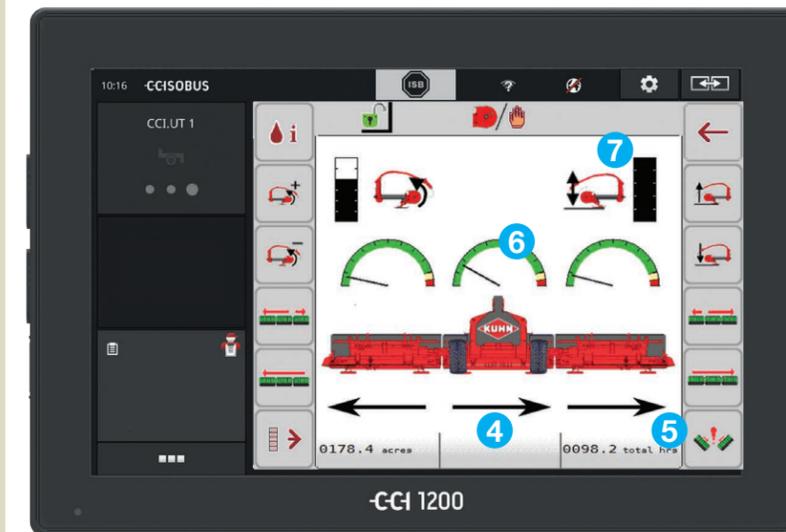
Optional on the MM 701.



THE WORLD'S FIRST ISOBUS COMPATIBLE HAY MERGERS!

These user interfaces get you in and out of the field faster to save you valuable time and money. The intuitive layout not only makes operation a breeze, but also provides the operator with the feedback needed to push the machine to maximum productivity.

- 1. With the electronically controlled speed adjustment system**, an operator can quickly and easily adjust pickup speed inside the cab on-the-go to perfectly match crop conditions. With this feature 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.
- 2. In automatic mode**, the merger will adjust pickup speed automatically as ground speed varies. This maximizes pickup efficiency, while minimizing damage to crop and wear of the pickup.
- 3. Acre and hour counters** can be used by reading the tractor's speed and machine width to aid in recording custom operations.
- 4. The electronic conveyor directional control** allows operators to rapidly change the direction from all left, all right or split directly from the operator's seat by simply touching the appropriate key. Operators merging in fields with varying volume throughout may find this particularly valuable.
- 5. Cleanout mode** can be activated in the instance of a plugged machine. This feature lets the operator unplug and cleanout the machine from the cab without ever having to leave the tractor.
- 6. Pickup efficiency** indicates relative capacity of the pickups giving a visual indication to the operator of machine efficiency.
- 7. The hydraulically adjustable pickup height** allows an operator to easily make changes from the ISOBUS terminal via the skid shoe adjustment. Relative height is visible via the gauge on the terminal.
- 8. Trouble shooting** is a breeze thanks to the sensor test screen. The user is able to see the current readings for most sensors on the machine, making it quick and easy to track down anything outside normal parameters.
- 9. In the event a sensor does fail, many are interchangeable**, allowing an operator to move the headland lift sensor to the belt stall location to keep the machine running. Or if the operator chooses, several sensors have the ability to deactivate to stop notifications if the operator needs to finish a field before repairing the machine.





HAY MERGERS MM 950 / 1090

CENTER-DELIVERY MODELS: MAKE THE MOST OF YOUR FORAGE

With up to 36' (11 m) of working width, KUHN Merge Maxx® MM 950 and MM 1090 hay mergers are ideal for larger farms and custom operators who depend on reliable and adaptable hay mergers to increase their operation's efficiency. The MM 950 and MM 1090 hay mergers are known for their versatility, with the ability to create a uniform windrow, using both center-, side- or split-delivery, in a wide variety of forages. The AT-10 controller allows for user-friendly and simple operation, without compromising machine performance.



SMALL-DIAMETER PICKUPS

The small-diameter pickup allows for optimal forage collection in light, short crop as well as heavy, dense crop. The speed of each pickup can be reduced to protect forage quality. The cam track design creates an effective path of transfer from the tines to the conveyor belt for improved capacity. Also, the plastic strippers excel in wet conditions to improve crop flow.



ROLLER WINDGUARD

The solid windguard with roller provides excellent crop guidance onto the center of the belt for a full and consistent windrow. The floating design eliminates adjustments when merging different crops or cuttings. The simple design automatically adjusts to differing crop volumes. If the operator needs to make fine-tuned adjustments for their operation, they can manually adjust the roller and windguard positions.



SPRING SUSPENSION SYSTEM

A simple and effective mechanical suspension system is utilized for superior flotation. This design features four springs located on each head and eliminates complicated hydraulic requirements. Each pickup has a large pivoting angle of +/-10° and a suspension range of 20" (+12" , -8") (50 cm (+30 cm, -20 cm)).



2-POINT HITCH

The 2-point hitch, on MM 950 and MM 1090, models features integrated shock absorbers for increased comfort in both transport and working positions. The hitch is Cat 2 and 3N quick-hitch compatible.



AT 10 CONTROLLER

The AT 10 is a non-ISOBUS controller to adjust forage delivery, individual unit lift, belt pickup start/stop, and setting the machine from transport and work position. This controller is very user friendly to simplify operation of the machine. The working width from center to side delivery is adjusted via the DA valve.



FLOTATION TIRES

Standard flotation tires are used to reduce field compaction. Additionally, the bar tread design helps prevent rutting when merging in wet field conditions.



OPTIONAL EQUIPMENT



SWATHBOARD

The optional right-side 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.

Available on the MM 701, 890, 950, 1090 and 1101.



4' BELT EXTENSION

The 4' (1.2 m) belt extension on the right side optimizes merging capability behind a 15'-18' (4.6-5.5 m) mower conditioner. It includes a bolt-on frame and belt extension, giving you the ability to merge up to 90' (27.5 m) of crop together in a 10' (3 m) or less windrow to maximize harvester efficiency (not intended for use in tedder crop).

Available on the MM 701 and 890.



ROLLER KIT

Optional rollers create additional header flotation in abrasive conditions, reducing friction. When not needed, the rollers retract for normal working conditions to take advantage of the full contact surface of the wide shoes.

Available on the MM 950 and 1090.



AUTO-LUBE GREASE PUMP

Take the guess work out of maintenance. When the terminal is on and there is grease in the pump, the machine is getting lubricated. This system saves the operator time every day.

Available on the MM 890, 1101 and 1301.

Available on the MM 701 when equipped with Central Lubrication System.



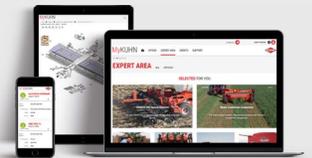
Technical Specifications

	MM 701	MM 890	MM 950	MM 1090	MM 1101	MM 1301
Working width	24' (7.3 m)	30' (9 m)	Side delivery: 24'6" (7.5 m), Center delivery: 26'10" - 31'2" (8.2 - 9.5 m)	Side delivery: 33'9" (10.3 m), Center delivery: 31'9" - 36' (9.7 - 11 m)	36' (11 m)	42' (13 m)
Number of pickups and conveyors	2			3		
Individual pickup width	12' (3.7 m)	15' (4.6 m)	12' (3.7 m)	15' (4.6 m)	12' (3.7 m)	Left: 15' (4.6 m) Center: 12' (3.7 m) Right: 15' (4.6 m)
Conveyor length	11'10" (3.7 m)	14'10" (4.5 m)	11'9" (3.6m)	14'4" (4.4m)	11'10" (3.6 m)	Left: 14'10" (4.5 m) Center: 11'10" (3.6 m) Right: 14'10" (4.5 m)
Conveyor width	3' (0.9 m)					
Discharge capability	Right, left, or 50/50 split		Side, Center, Split, Center & Side		Right, left, or split	
Pickup windguard	Standard					
Adjustable crop nets	Standard		-		Standard	
Number of tine bars	6		5		6	
Cam followers	Sealed roller bearings					
Pickup height	5/8" - 3 1/8" (16 - 80 mm)			5/8" - 3 1/8" (16 - 80 mm)		
Adjustable skid shoes	Hydraulic		via DA valve		Hydraulic	
Header flotation	Constant Float® suspension		Spring Suspension System		Constant Float® suspension	
Header suspension travel	14" (+8", -6") 35.6 cm (+20.3, -15.2) cm		20" (+12", -8") 50 cm (+30 cm, -20 cm)		14" (+8", -6") 35.6 cm (+20.3 cm, -15.2 cm)	
Hitch	2-point swivel hitch, Cat. 2/3N/3, quick hitch compatible	2-point swivel, Cat. 2/3N/3/4N, quick hitch compatible	2-point - Pivoting lower links - Cat. 2 and 3N		2-point swivel, Cat. 3/4N/4, quick hitch compatible	
Self-contained hydraulic drive	Standard				Standard with cooler	
Pickup speed control	via ISOBUS terminal		via AT 10 control box		via ISOBUS terminal	
Conveyor direction control	via ISOBUS terminal		via AT 10 control box		via ISOBUS terminal	
ON/OFF conveyor control	via ISOBUS terminal		via AT 10 control box		via ISOBUS terminal	
Pickup height gauge	via ISOBUS terminal		Manual indicator		via ISOBUS terminal	
Belt stall detection	Optional OptiSense™ System		-		Standard OptiSense™ System	
Conveyor side shift	-		via DA valve		-	
Transport width	10' (3 m), 10'3" (3.1 m) with 500/45 - 22.5 tires	10'3" (3.1 m)	9'10" (3 m)		12' (3.7 m)	
Transport length	24'6" (7.5 m)	28'4" (8.7 m)	24'3" (7.4 m)	26'10" (8.2 m)	29' (8.8 m)	32' (9.8 m)
Transport height	12' (3.6 m)		11'9" (3.6 m)		12' (3.7 m)	
Tires	16.5"L X 16.1" 10 - ply imp.	500/45-22.5 flotation	500/45-22.5 flotation		Standard 550/45-22.5 flotation, mounted	
Central lube system	Optional	Standard	-		Standard	
PTO	1 3/8" - 21 spline					
PTO speed	1,000 rpm					
Minimum PTO power requirement	100 hp (75 kW)	120 hp (90 kW)	85 hp (63 kW)	95 hp (71 kW)	140 hp (104 kW)	
Road lights and signaling	Standard					
Required tractor electrical connections	1 SAE 7-pin light connection, 12V power, ISOBUS plug		1 7-pin plug and 1 ISO 3-pin plug		1 SAE 7-pin light connection, 12V power, ISOBUS plug	
Required tractor hydraulic connections	2 DA; no float valve required		3 DA (of which 1 with floating position) - 1 additional DA if windrow curtain		3 DA; no float valve required	
Approximate machine weight	9,800 lbs (4,445 kg)	10,700 lbs (4,855 kg)	10,680 lbs (4,845kg)	11,290 lbs (5,120 kg)	17,000 lbs (7,711 kg)	17,700 lbs (8,030 kg)
Pick-up and conveyor drive	Integrated hydraulic unit, pickup speed adjusted via ISOBUS terminal		Integrated hydraulic unit, belt speed adjustable via regulator on the machine		Integrated hydraulic unit, pickup speed adjusted via ISOBUS terminal	

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