

Belt Merger

MERGE MAXX 760 - 950 - 1090



www.kuhn.com



be strong, be **KUHN**



MERGE MAXX

760

950

1090

A DIFFERENT WAY OF WINDROWING



MERGE MAXX models are highly versatile machines. They are capable of gathering any kind of forage, gently, in order to retain its maximum feed value. Two independent pick-ups, on some models, provide different raking widths, in single windrow mode and "central windrow" mode.

A MULTITUDE OF POSSIBILITIES

From grass to alfalfa whole-plant silage or hay, biogas plants, grain or rape straw, this machine gathers any type of crop to form windrows with its different windrowing configurations.

PERFORMANCE ON A LARGE SCALE

MERGE MAXX 950 and 1090 are the ideal machines for contractors and machinery cooperatives that work on large operations and count on efficiently organised and powerful harvesting chains. The MERGE MAXX 760 is particularly adapted for individual livestock farms looking for a more productive machine. With adjustable working widths of up to 9.5 and 11 m, these mergers can collect up to 20 or 30 m of forage. They form uniform windrows enabling the harvesting machines that follow to work at high speeds of up to 3 kph*.

KEEPING FEED VALUE HIGH AND SOIL CONTENT LOW

How do belt mergers work? Forage is not pushed along the ground but picked up where it was cut. What are the advantages of this? Less leaf loss and potentially less soil and stones in the forage. After being transferred to the belt, windrows can be deposited and picked up again to form the extra-large final windrow. This is an effective way to cut costs during big harvesting operations. Fewer kilometres of windrows = large harvesters used more efficiently.



Specifications

	MERGE MAXX 760	MERGE MAXX 950	MERGE MAXX 1090
Working width (m)	5.50 to 7.50 m	7.50 to 9.50 m	9.00 to 11.00 m
Transport width (m)	3.00 m		
Number of pick-ups	2		
Pick-up and belt drive	Hydraulic		

*Depending on conditions

SO MANY POSSIBILITIES WITH NO COMPROMISE MADE ON FORAGE QUALITY

MERGE MAXX belt mergers have up to eight different delivery options.

They are capable of:

- Picking up any type of forage, light or heavy, dense or sparse, long or short (temporary or permanent grassland, straw or whole plants, meslin, hay,...).
- Adapting to harvesting methods: 1 m windrows for balers and self-propelled loaders, and up to 2.20 m for forage harvesters. Deliver central windrows with adjustable width, side windrows with different pick-up widths or combine the options.
- Adapting easily to different plot configurations.

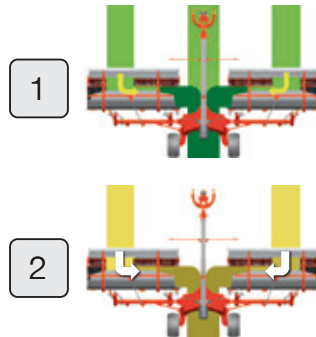


Central delivery

The 2 units are distant.
The belt takes the forage to the centre of the machine.
A central windrow is created with 8 to 10 m of forage:
- Ideal with a triple mower combination **1**.

- Or picking up 2 straw windrows after a combine harvester with cuts up to 7/7.50 m **2**.

Windrow width can be adapted to the size of the pick-up depending on the distance set between the pick-up units.



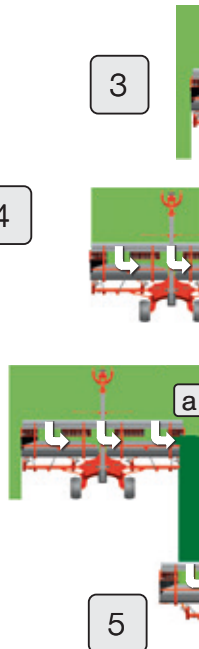
20 to 30 m in

If the belts are brought closer together and turned in the same direction, one single windrow is created, either to the left or to the right of the machine **3**.
If need be, forage can be deposited onto a pre-raked area.

Different raking widths can be put together to produce widths of up to 20 to 30 m in low forage volume situations **4**.

Get the best of both worlds; side and central delivery **5**

- First pass with right delivery **a**.
- Then left side delivery **b**.
- Then finish the windrow **c**.



PICK-UP UNIT:

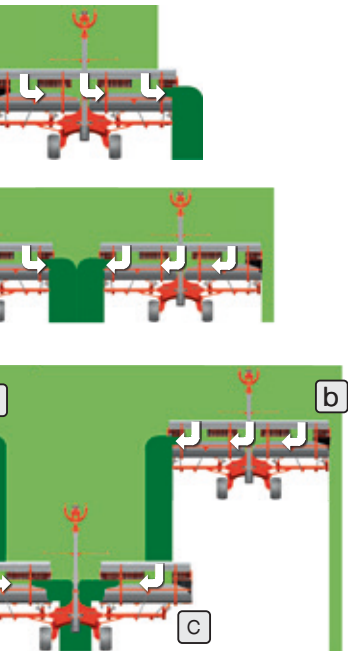
The pick-up and WINDGUARD-with-roller

Pick-up quality and regularity are directly related to the design of this unit. In combination with the WINDGUARD reel, volute and lower roller, 5 tine arms, guided by cam, optimise forage uptake, lift and smooth transfer to the belt. **This is essential for the machine to create regular windrows.**





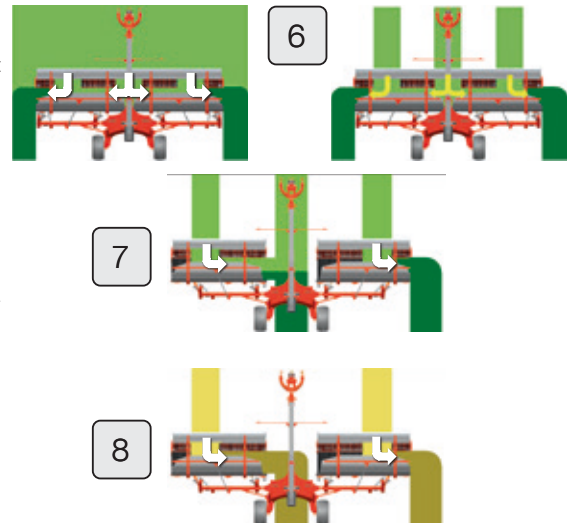
one windrow



If forage is heavy

A single windrow may be too much for a harvester in terms of working at a constant speed. That's why different configurations are possible:

- Half the forage is guided to one side and half to the other [6].



- Half the forage is guided to a central windrow and half to a side windrow [7].

- This can be useful for turning two straw windrows simultaneously! [8]

EASIER FORAGE TRANSFER. Rotation speed of the pick-up is variable to adapt to different harvesting situations. When necessary, rotational speed can be reduced to preserve the leaves of very delicate forage and the final product. The wide belt transfers the product to the side. It is very easy to service.

BELT ADJUSTMENT: Fast and practical. It takes just a few moments and requires no tools to adjust the tension of the belt. Belt speed can be modified, as required, independently of the speed of the pick-up.



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REGULAR WINDROWS: + 2 TO 3 KPH*



Your harvesting equipment can work at faster speeds when windrows are regular. At constant speeds, drivers have less operating stress:

- No slowing down for dense areas.
- No accelerations for sparse areas.

They can concentrate on what is important rather than having to worry about ground speed.

With MERGE MAXX belt mergers, you also reduce the peaks in operating stress put on harvesting machines. MERGE MAXX users attest to increasing working speeds by 2 to 3 kph!

You too can improve all-round productivity.



Less soil and stones in the windrow reduces wear to the intake system and decreases operating costs.

***Depending on conditions.*



EXCLUSIVE

WINDGUARD-WITH-ROLLER SYSTEM

Forage is taken in by the pick-up and guided by the WINDGUARD system which is composed of a guidance volute and a roller that optimise forage flow onto the conveyor belt. It automatically adjusts to the amount of forage.

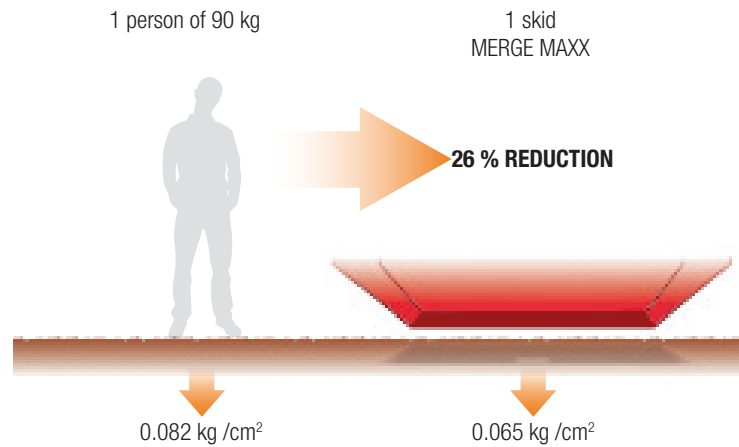
Result: uniform, fluffy windrows with no twists for faster output.

Side windrows perfectly

calibrated. A windrow curtain can be ordered for side delivery to improve windrow calibration, especially when using a baler for pick-up. The driver can change windrow width at any time or fold the curtain back completely.

Excellent ground following. The MERGE MAXX belt merger is equipped with a system that keeps ground pressure down to below 90 kg!

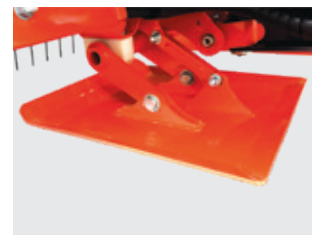
EQUIVALENT WEIGHT ON THE GROUND



Spring suspension. In order to reduce ground pressure and preserve grass stubble, the pick-up units of the MERGE MAXX belt merger come with a special suspension system with 4 powerful and adjustable springs. Each pick-up unit has an angle of +/- 10° and vertical travel range of -20/+30 cm in order to adapt to uneven terrain.



Articulated skids. The four large skids are articulated and height adjustable to contour the ground and guide each pick-up unit perfectly. Centralised skid-height adjustment by crank handle provides extra comfort on MM 950 and 1090 models.



LINKAGE WITH INTEGRATED DAMPERS

The linkage system on MM 950 and 1090 models includes dampers to prevent jolts being felt in the tractor. This is a KUHN exclusive which gives additional comfort when driving on poorly-kept roads.



SELF-CONTAINED HYDRAULIC CIRCUIT

To avoid excessive tractor hydraulic requirements, an integrated hydraulic unit drives the pick-ups and belt. The machine can run at 1000 rpm or in energy-saving mode at 750 rpm, to reduce fuel consumption.

The KUHN extra: pick-up speed can be reduced when gathering very delicate forage.



EXTRA PROTECTION

For windrowing in hot, dry weather, in straw or flinty ground, synthetic skids are available as an option. They protect the machine perfectly during harvesting operations.

ENTER THE BIG LEAGUE

The MERGE MAXX 760 belt merger completes KUHN's windrowing offer for individual farms. Its design gives users the same benefits as the larger versions related to:

- The versatility of windrow delivery modes
- The windrow evenness facilitating collecting and output of harvesting machines
- Reducing the introduction of stones and impurities into the forage

With a working width of 5.50 to 7.50 m in central windrow mode and 6.20 to 7.50 m in side delivery mode, this machine will provide full satisfaction on your farm.



CONTROLLING THE BELT MERGER IS EASY WITH THE KMM01 TERMINAL.

- The KMM01 terminal simplifies managing:
- windrow delivery mode,
 - individual or simultaneous belt lift.



ANOTHER WAY OF WORKING

MERGE MAXX 950 and the new MERGE MAXX 1090 belt mergers are extremely versatile. This makes them the ideal machines for contractors and machinery cooperatives that work on large operations and count on efficiently organised and powerful harvesting chains.

These belt mergers adapt perfectly to harvesting methods: 1 m windrows for balers and loaders, and up to 2.2 m for forage harvesters.



EASY-TO-USE BELT MERGERS!

The machine's main functions are controlled with an AT10 control box that is simple and user-friendly:

- Windrow delivery,
- Rotational direction of belt,
- Setting to work / transport position,
- Hour meter.

The windrow curtain is controlled by a tractor valve directly.



COMPACTNESS, STABILITY AND ROAD TRAVEL COMFORT



The shorter length of the machine, the effective folding feature, the linkage system with dampers (exclusive and patented on MM 950 and MM 1090) and the pivot point set further to the back are all features that make the belt merger highly compact and stable on poorly-kept roads, and easy to handle at headlands.

THRILLED WITH IT AND SAYING SO:



Jérémie MASSON - GAEC AURORE (jointly run farms)

We can harvest a good crop with the MERGE MAXX, and leave the plant debris, branches, soil and stones on the ground. It requires very low power; we work with a 95 horsepower tractor. The machine and the control box in the tractor cab are really easy to use.



Philippe DARNE

We highly recommend a machine like the MERGE MAXX because it's so versatile. We harvest a lot of ryegrass and clover with it. We take it everywhere, even onto small plots. You can do anything with a machine like that.

MERGE MAXX

	760	950	1090
Uptake width (m)	5.50 / 7.50	7.50 / 9.50	8.85 / 10.95
Working width in central delivery mode (m)	6.20 to 7.50	8.20 to 9.50	10.70 to 11
Working width in side delivery mode (average including initial windrow) (m)	6.80	8.80	10.20
Average windrow width (m)	1.00 to 1.50 in side windrow mode, up to 2.20 in central windrow mode		
Transport width (m)	3.00		
Transport length (m)	6.60	7.40	8.20
Transport height (m)	3.60		
Number of pick-ups and belts	2		
Pick-up and belt drive	Self-contained hydraulic drive		
Pick-up height control	2 skids per pick up, adjustable by multi-position pin selector	2 skids per pick-up, continuously adjustable by crank	
Type of windrow	Central, side, left and right side or central + side		
Tyres	400/55x22.5		500/45x22.5
Functions controlled by terminal	Simultaneous or individual lift, left/right windrow delivery selection	Setting to transport/work position, headland turn position, windrow delivery options, hour meter	
PTO speed (rpm)	1000 or 750, to specify on ordering		
Linkage	2 point - Pivoting yokes - Cat. 2 and 3		
Minimum PTO requirement (kW)	56	63	71
Minimum PTO requirement (hp)	75	85	95
Tractor hydraulic requirements	2 DA (1 with float position) - 1 extra DA if windrow curtain		
Tractor electric requirements	1 7-pin connector and 1 3-pin ISO connector		
Lighting and signalling	As standard		
Weight (kg)	4070	4845	5120

Pneumatic or hydraulic braking system, abrasion-resistant steel skid lining / in synthetic material for work in flinty ground.



be strong, be **KUHN**

KUHN PARTS

Designed and manufactured to rival time



KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.



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760

950

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ADVANTAGES OF THE MERGE MAXX 950 BELT MERGER AT A GLANCE

SO MANY POSSIBILITIES WITH NO COMPROMISE MADE ON:

- Forage types
- Harvesting methods

Working speeds increased by 2 to 3 km/h* with homogeneous windrows that are easy to pick up.

Optimum ground pressure control in order to preserve plant cover:

- Spring suspension.
- Articulated skids.

Driving comfort: in-cab terminal, linkage dampers, suspension of working units and regular windrows.

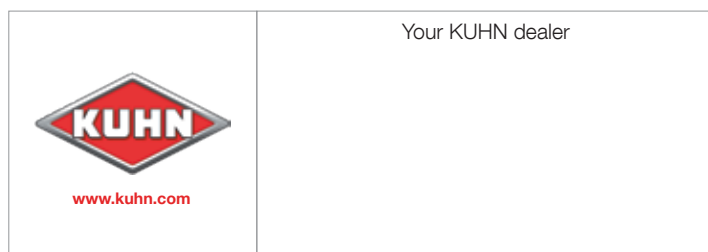
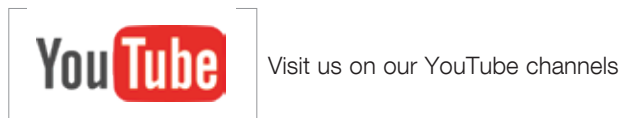
**Depending on conditions.*

Check out our range of high-performance machines



1. Triple gang mowers - 2. Triple gang mower conditioners - 3. Large width tedder - 4. 4-rotor rake - 5. High density baler - 6. Round baler - 7. Fixed chamber baler-wrapper combination - 8. Wrapper.

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