

Front Mounted Disc Mowers

GMD 110 F SERIES
GMD 1020 F COMPACT SERIES



www.kuhn.com



be strong, be **KUHN**




GMD**110 F****1020 F****COMPACT**

HIGH QUALITY FORAGE AT THE END OF THE DAY



HOW TO ACHIEVE THE HIGHEST POSSIBLE NUTRITIONAL VALUE?

Four rules are important: avoid dry matter loss, preserve grass quality, keep crops clean, ensure its palatability. KUHN front-mounted mowers respect all four of them.

DEMANDING A RELIABLE MACHINE

Machine downtime during periods of high work intensity is not what you are looking for. Have a closer look inside the KUHN front mowers to assure yourself of its reliability.

LOOKING FOR POWERFUL MOWING COMBINATIONS OPERATED IN TOTAL COMFORT

Front-mounted mowers are the perfect implements to combine with other machines for a high work output and increased efficiency. Also in combination, they are easy to handle.

KUHN front mounted mowers in brief:



	Working width (m)	Approx. weight (kg)	PTO power requirement (kW/hp)
GMD 280 F	2.80	990	28/38
GMD 310 F	3.11	1,010	32/43
GMD 2820 F	2.70	544	27/37
GMD 3120 F	3.14	596	32/43

KUHN OFFERS FRONT MOWERS



GMD 110 F SERIES

Producing fodder of high nutritional value is your main aim during forage harvest. The new KUHN GMD 110 F series of front mounted mowers compel through their wide choice of equipment, their reliability, clean cut and excellent ground contour following.

GMD 310 F

This 8-disc front mower has a working width of 3.11 m (10'6"). Important assets are the four swathing drums, which form an airy swath and prevent it from being pressed down by the tractor wheels. The GMD 310 F has a transport width of less than three meters.

Find
more details
on pages 6-11

GMD 280 F

With its 7-disc cutter bar the GMD 280 F has a working width of 2.80 m (9'2").



FOR VERSATILE CONDITIONS!



GMD 1020 F COMPACT SERIES

The COMPACT front-mounted mowers bear their name well: This new range has been especially developed for the use in hilly areas. These machines are adapted perfectly to low power tractors or tractors specialized in mountainous regions. Every detail has been studied carefully to reach the lowest possible weight without any compromise on reliability.

GMD 2820 F COMPACT

This mower reaches an incomparably low weight of 544 kg (1 199 lbs) at a working width of 2.70 m (8' 10").

Find
more details
on pages 12-14

GMD 3120 F COMPACT

The 7-disc cutter bar has a working width of 3.14 m (10' 4"), and offers a large overlap width to prevent poorly cut areas in tight turns.



PAYING ATTENTION TO FORAGE QUALITY PAYS OFF



It's the quality of reserves stored in a silo, bales, or bunk, which makes an important difference for the farmer, who wants to increase the profitability of his livestock. The aim is simple: produce as much meat or milk as possible from the basic feed ration components.

KUHN FEATURES FOR A CLEAN AND GENTLE CUT

This is the main reason, why the KUHN development department has focused on solutions for good ground adaption of the machine and gentle cutting operations.

«PULL TRAPEZIUM»

SUPERIOR ADAPTATION TO IRREGULAR GROUND CONTOURS!

The "trailed" mower unit is attached to the frame by rods. Through the special suspension concept, it is able to pivot $\pm 6^\circ$ left to right as well as 6° down and 5° up, but can also travel 50 cm vertically - perfect prerequisites for an excellent ground adaptation resulting in clean forage, be it during daily operations on soils that are often still wet or for hay and silage making.



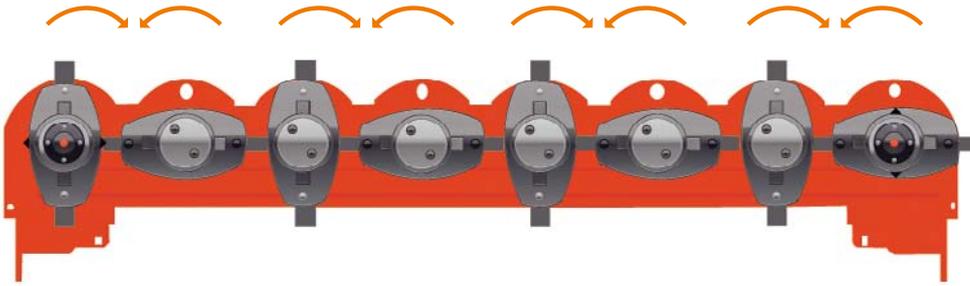
Additional features

- Anchor points of the suspension links are positioned close to the cutter bar for a long travel range and good ground following.
- The dry end of the lift cylinders is air pressurized, which helps the mower unit to quickly adapt to ground contours, even at high speed.
- Anchor points of the suspension springs are located at the rear, meaning the initially set cutter bar down pressure remains constant as the cutter bar moves up and down.

When facing an obstacle:

1. the mowing unit lifts like a ski tip,
2. goes over the obstacle,
3. and automatically regains its normal position.

CONVERGING ROTATION FOR HIGH FEED VALUE



For an intact stem length grass must be cut only once. Forage cut several times loses its nutritional value, its regrowth is delayed and the mower needs more power.

On the new KUHN GMD 110 F models each pair of discs is driven with a converging rotation. Thus, the crop is quickly ejected into the swath and only cut once. Be sure: No double-cutting will degrade your harvest!



PROVIDING SUPERIOR GROUND ADAPTATION

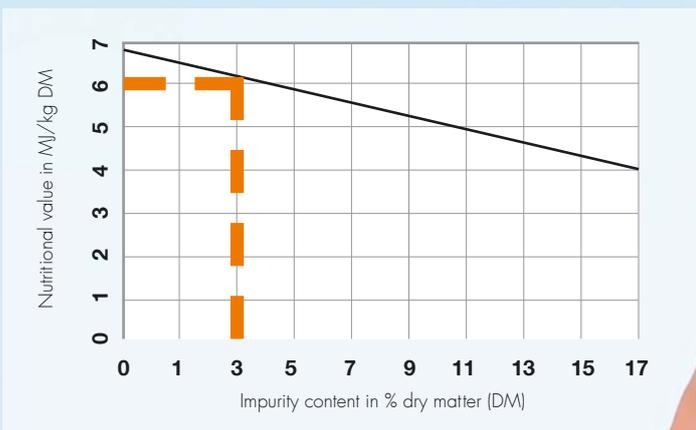
An excellent ground contour adaptation and reduced ground pressure of the mower unit are main requirements to prevent the crop from being contaminated.

The optimum position of the suspension springs on GMD front-mounted mowers provides for precise and fine-tuned ground pressure adjustment. The weight the mower unit exerts on the ground, thus is limited efficiently at all times. Moreover, this reduces skids' wear.

The results: A constant cutting height, a preserved grass stubble and crops, which remain free of dirt.



The best hay will have an impurity level no greater than 3% for an average energy level of 6 MJ/kg dry matter (source: I.N.R.A.).

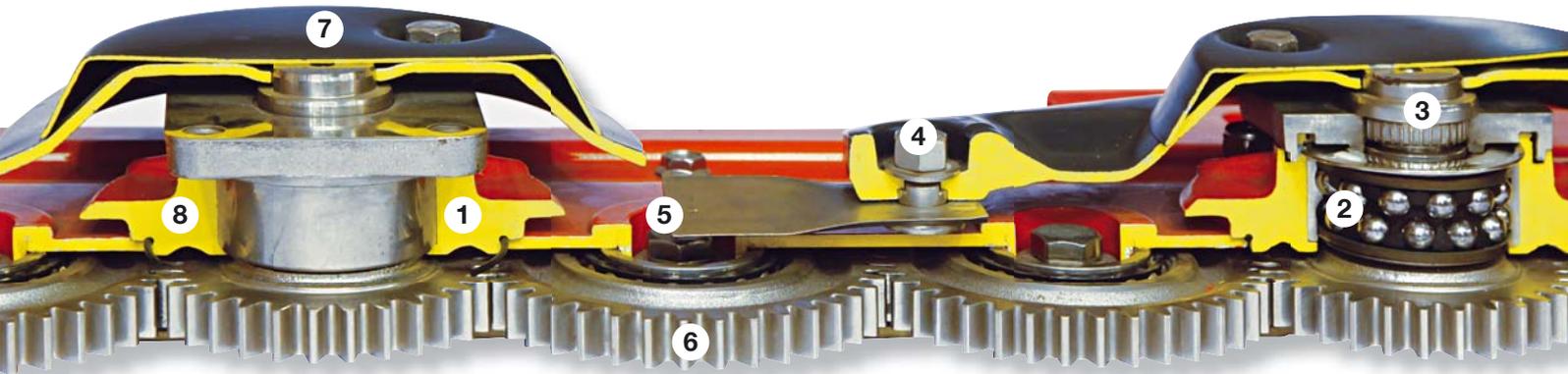


KUHN
GrassMASTER



THE IMPORTANCE OF TAKIN

Some disc mowers may look like a KUHN machine from the outside...
However: What is on the inside is more important. KUHN's design and construction standards



1

Withstands the highest loads

High capacity bearings are fitted in a one-piece sealed housing, thus not subject to distortion.

2

Increased service life

Disc pinion shaft bearings endure radial forces for longest bearing life. This optimum position improves the load balance.

3

Protection should an obstacle be struck

The PROTECTADRIVE system protects the cutter bar gear train and minimizes down-time risks in full season.

4

Highly wear resistant

Knife attachment hardware is fully protected. For added safety, heat treated steel cups are welded to the disc.

5

Minimum wear or distortion risks

Idler gear fasteners are located in heat treated steel cups. Correct alignment is ensured without the risk of distortion.

6

Long-term functioning

The gearwheels of high tensile forged steel are of large diameter with reinforced teeth.

7

Oval shaped heat treated discs

They ensure a longer service life and more efficiency (ejection of cut crop, greater knife overlap for a cleaner cut).

8

Perfect sealing

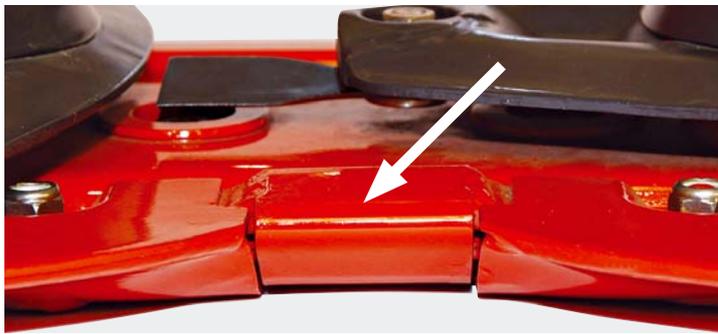
O-rings are used on cutter bar bearing housings for a perfect, leakfree seal.

GET A LOOK INSIDE

ensure a reliable operation of the centrepiece of each mower, the cutter bar. Take a closer look at the KUHN cutter bar with many exclusive features for a longer service life.

MAXIMUM CUTTER BAR PROTECTION

Intermediate deflector shields fitted between the disc guards protect the cutter bar by guiding bentdown knives automatically over it. Thus, they prevent it from being damaged as well as protecting it from the abrasive effects of soil and debris moving with the cut crop. Heat treated and reinforced skids also protect the cutter bar.



KNIVES

KUHN knives are made of high-quality steel and manufactured to very strict standards! For safety and long life, knives are attached with a specially designed hardware.



MINIMIZE MACHINE DOWN TIME

For maximum reliability and minimum downtime, the disc bearing stations which include the housing, bearing and pinion shaft are factory-assembled. You can install or remove them rapidly and easily.



EXCLUSIVE

100% SAFE KNIFE ATTACHMENT TO SAVE TIME

Find out about the advantages of the FAST-FIT quick release blade mount system.



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.



MOWING QUALITY, REDUCED WEIGHT

The new KUHN GMD 280 F and GMD 310 F mowers can achieve cutting widths of up to 8.75 m, when combined with a rear-mounted butterfly combination. With the reduced weight of the front models, a high output is also ensured with mid-size tractors. Several features such as the



THE KUHN PLUS

HOW TO DELIVER A FLUFFY SWATH

Four belt-driven swath drums form fluffy, well-aired and narrow swaths, which will not be run over by the tractor wheels. This facilitates swath pick up by presses or forage wagons, without risk of soiling the forage. In particular situations with heavy or long forage, serrated metal bars can be fitted on the drums to increase the flow to the rear. All together, KUHN's front-mounted mowers contribute much to the fodder's nutritional value!



AND ROBUSTNESS IN ONE MACHINE

“trailed” cutter bar suspension as well as the addition of four swath drums ensure clean forage rich of nutrients and energy. Subtle reinforcements on the frame, transmission, cutter bar and drum drive add to improve the reliability of the machines.

ADDING RIGIDITY AND COMFORT

The strengths of the new GMD 110 F generation are not limited to their excellent ground adaptation and swath formation. Several points have been considered to ensure a long service life of the machine:

- strong main frame with thick-walled square tubes;
- swath drum drive reinforced with new bearings and sealing;
- strong PTO shaft delivered as standard;
- new top shielding providing an easier access to greasing nipples;
- new user-friendly side shields not needed to be folded under the front cover for transport.



A COMPACT, LIGHT AND BALANCED UNIT

The front-mounted models are attached closely to the tractor, forming a compact and easily manoeuvrable unit. Thanks to their reduced overhang and light weight, they can be used with low-horsepower tractors.

EXCELLENT VISIBILITY

The driver is working in total comfort with a panoramic view over the machine from the tractor cabin. The all-round visibility has even been improved on the new GMD 280 and 310 F by adding new adapted lighting and panels. Being completely in the drivers’ field of vision, the mower accurately responds to the steering action of the front tractor wheels, giving irregular shaped borders an impeccable finish. Thus, it is also possible to mow close to hedges, fences and other obstacles.



GMD 1020 F COMPACT SERIES

THE MOUNTAINEERS AMONG FRONT MOWERS

With this front mower range KUHN has developed compact machines well adapted to uneven terrain, hilly areas or even mountainous regions.



LOWEST POSSIBLE WEIGHT. HIGHEST POSSIBLE RELIABILITY.

Cut down on every possible kilogram, while providing a maximal reliable machine for low-power tractors: KUHN has not only reached these aims. Compact design and transport features, a central pendulum-type articulation, an optimized cutter bar...there are many convincing arguments for mounting the GMD 2820 F or 3120 F COMPACT on your low-power or high-mountain tractor.

TRACTOR ATTACHMENT

Two types of linkage are possible: The mowers can either be mounted on bolted yokes or via a quick-hitch A-frame. For the latter a male A-frame is required.

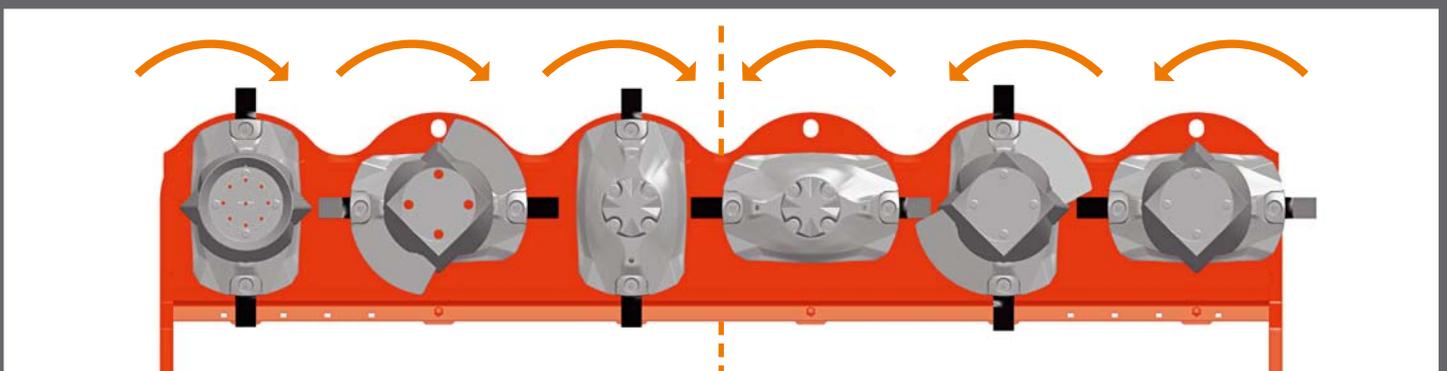


PRECISELY ADAPTING TO THE TERRAIN

The mowing unit adapts precisely to ground contours owing to its central pivot point. The ground pressure adjustment is made directly from the tractor for those equipped with an integrated front lift suspension. Alternatively you can use powerful springs (arrows) between the attachment frame and the tractor.

DISC ROTATION CONVERGING TOWARDS THE CENTRE

This is the secret for successful mowing on very uneven grounds. The disc rotation generates an efficient crop flow towards the machine centre and ensures that the crop is quickly ejected rearward on the swath.



GMD 1020 F COMPACT SERIES



OPTIDISC: THE OPTIMUM CUT

The concept of the OPTIDISC cutter bar stands out ensuring perfect cutting quality, increased resistance to wear and shocks as well as through its high comfort of use.

Central points:

sealed gearbox - large diameter gearwheels - shear point on disc drive (PROTECTADRIVE) – modules as well as intermediate gears quickly and easily interchangeable - lubricated for life, no oil changes necessary.

TC 320 REAR-MOUNTED CONDITIONER

POWERFUL COMBINATION FOR FASTER DRYING



KUHN's rear conditioner TC 320 is the perfect supplement for the GMD 1020 F COMPACT front-mounted mowers in hilly areas. The machine runs very stable due to its fixed headstock with oscillating lower link pins and an optimized position of the wheels to the rotor - even on steep slopes.

Central points:

- flexible swath width adjustable between 1.00 and 3.10 m,
- different rotor speeds available (650 or 815 min⁻¹),
- wheels attached to the headstock frame, no extra load on the conditioner.

	GMD 280 F	GMD 310 F	GMD 2820 F COMPACT	GMD 3120 F COMPACT
Working width (m/ft)	2.80/9'2"	3.11/10'2"	2.70/8'10"	3.14/10'4"
Transport width (m/ft)	2.66/8'8"	2.99/9'10"	2.55/8'4"	3.00/9'10"
Linkage	A-frame cat.2		A-frame cat.2 or standard frame cat. 1 and 2	
Number of discs	7	8	6	7
Number of knives per disc	2			
Swathing system	2 x 2 belt driven drums		2 swathing discs	
Swath width approx. (m/ft)	0.90/3'	1.30/4'3"	1.30/4'3"	1.50/4'11"
Swath width with optional swath reduction device (m/ft)	-		1.20/3'11" (with 2 swath boards)	1.30/4'3" (with 2 swath wheels)
PTO speed (min ⁻¹) rotation to the left or right	1,000 (540 as option)		540 or 1,000	
Free wheel	◆			
Minimum PTO power requirement (kW/hp)	28/38	32/43	27/37	32/43
Weight approx. (kg/lbs)	960/2,120	1,010/2,230	544/1,199	596/1,313
Lightning and signalling	◆		◇	
Necessary hydraulic equipment	1xSA		-	

◆ Standard ◇ Option - Not available

Optional equipment GMD 110 F series*:

A-frame cat. 2 for tractor front linkage – raised skid shoes – side deflector kit for very long forage – serrated metal bars on swath drums for particularly heavy forage.

Optional equipment GMD 1020 F COMPACT series*:

swath width reduction devices – suspension springs – attachment offset – lights and signaling panels.

KUHN SERVICES *

*Not all services and equipment are available in all countries

MAXIMIZE THE USE AND PRODUCTIVITY OF YOUR KUHN EQUIPMENT

KUHN sos order

Express spare parts service 24/7

You urgently need spare parts? With KUHN sos order benefit from express delivery seven days a week, 365 days a year. Thus, you can minimize machine downtime considerably and increase your work output.

KUHN i tech

For ever quicker repairs!

An unexpected technical problem always occurs at the wrong time. Your KUHN dealer can support you quickly and efficiently thanks to KUHN i tech. With this 24/7 online service, a quick and exact diagnosis is possible.

KUHN protect +

The choice of professionals!

Benefit from 36 months in complete serenity because of KUHN's protect + warranty. You can concentrate exclusively on your work and the performance of your machine. Because this is what you expect, when investing in high-tech machinery.

KUHN finance

Invest rationally!

New machine necessary, financing unsure? Modernize your equipment and develop your farm with KUHN finance, in total safety and according to your needs and demands. We offer custom-made finance solutions, adapted to your requirements.



KUHN

APPS

SMALL PROGRAMS WITH GREAT IMPACT

FOR POWERFUL HARVESTING SYSTEM SOLUTIONS

The forage harvesting chain is only as strong as its weakest link. It's important that all machines do well interlock. In this context, the KUHN ForageXpert app can support you in optimizing your harvest system according to your current equipment. With this tool you can quickly find the mower, mower conditioner, tedder and rake that are best adapted to your existing forage machines.

Available on the Apple Store as well as Google Play.



Scan this code for direct access to KUHN ForageXpert.



Check out the extensive KUHN range of mowers and mower conditioners.

1. Front-mounted disc mower conditioners
2. Front- and rear-mounted drum mowers
3. Rear-mounted disc mowers
4. Rear-mounted disc mower conditioners
5. Trailed mower conditioners
6. Triple head combinations



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