

Front mounted disc mowers



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GMD 102 F series GMD 1020 F COMPACT series



be strong, be **KUHN**



ADAPTED SOLUTIONS FOR RICH FODDERS

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 (m)	PTO power requirement (kW/hp)
GMD 702 F	2.80	805	36/49
GMD 802 F	3.11	888	41/56
GMD 2820 F	2.70	544	36/49
GMD 3120 F	3.14	596	41/56

KUHN OFFERS FRONT MOWERS



GMD 102 F SERIES

Producing fodder of high nutritional value is your main aim during forage harvest. Front-mounted mowers of KUHN's GMD 102 F series compel through their wide choice of equipment, their reliability, clean cut and excellent ground contour following.

GMD 802 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 802 F has a transport width of less than three meters and is equipped as standard with a lightning and signalling system.

GMD 702 F

With its 7-disc cutter bar the GMD 702 F has a working width of 2.80 m (9'2").

Find
more details
on pages 6-11



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 uncomparably low weight of 544 kg (1199 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 thigh 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

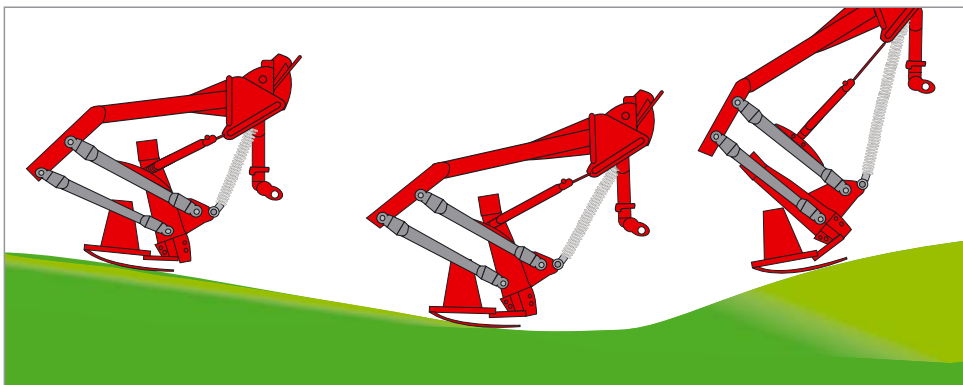
This is the main reason, why the KUHN development department has focused on solutions for good ground adaption of the machine and gentle cutting operations.

«PULL TRAPEZIUM»

ADAPTING TO IRREGULAR GROUND CONTOURS!

The pulled 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 minus 6° down and plus 5° up – perfect prerequisites for producing clean forage, be it during daily operations on soils that are often still wet or for hay and silage making.

The especially high vertical travel range of 50 cm also contributes to the superior ground contour following of the mower.

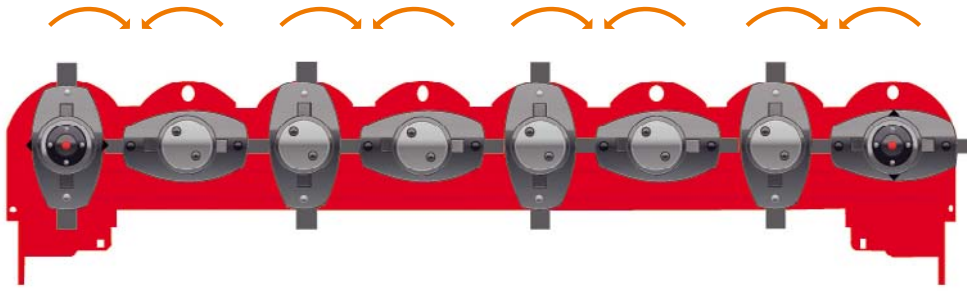


Additional features

- 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 KUHN GMD 102 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

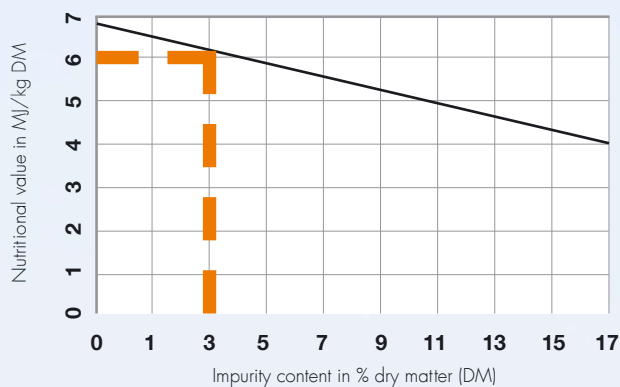
An excellent ground contour adaptation and reduced ground pressure of the mower unit are main requirements to prevent the crop from being contaminated.

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.



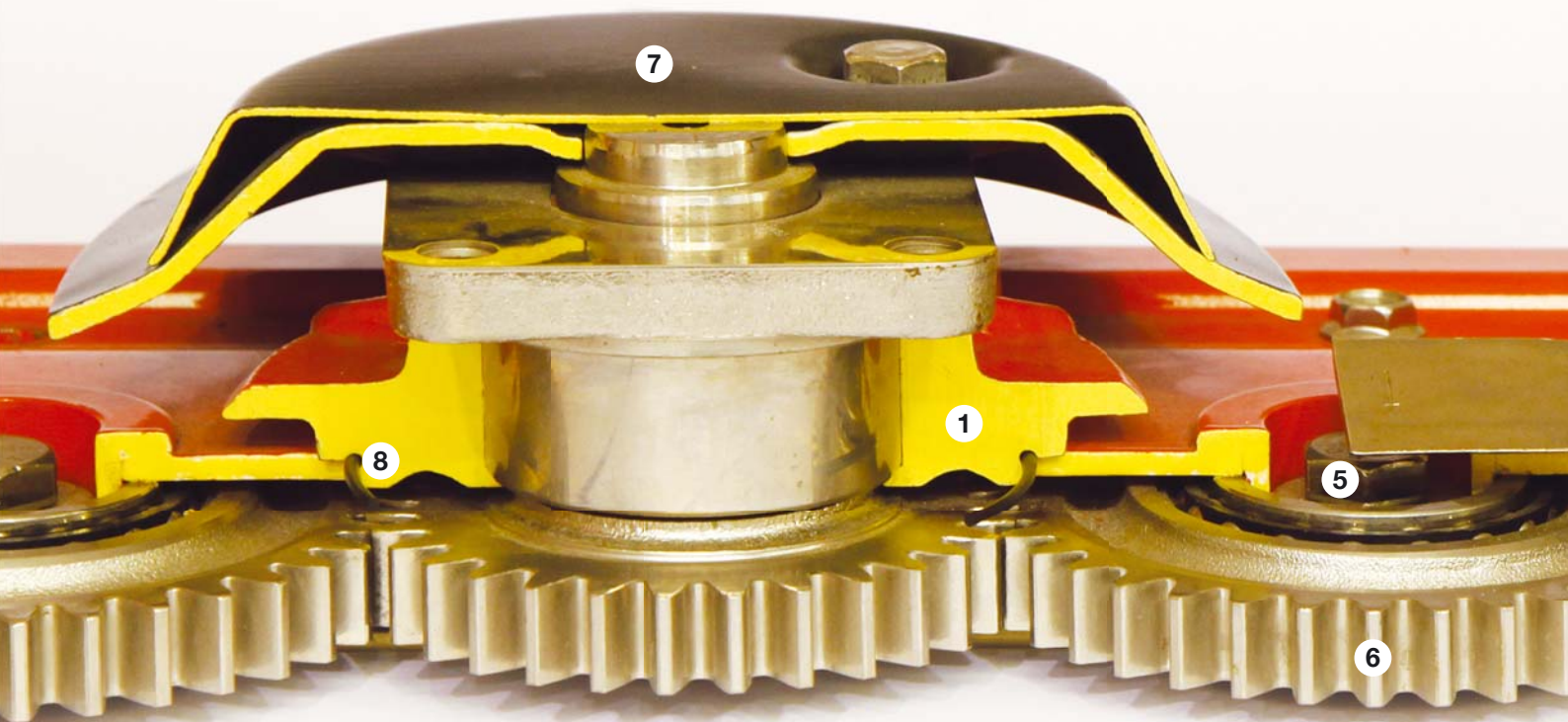
The best hay will have an impurity level no greater than 3 % for an average energy level of 6 MJ/kg dry matter (source: I.N.R.A.).



THE IMPORTANCE OF TAKING

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

Idle 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.

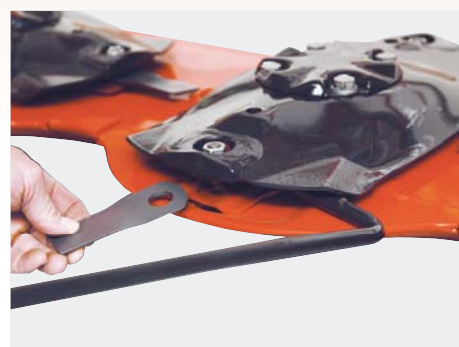
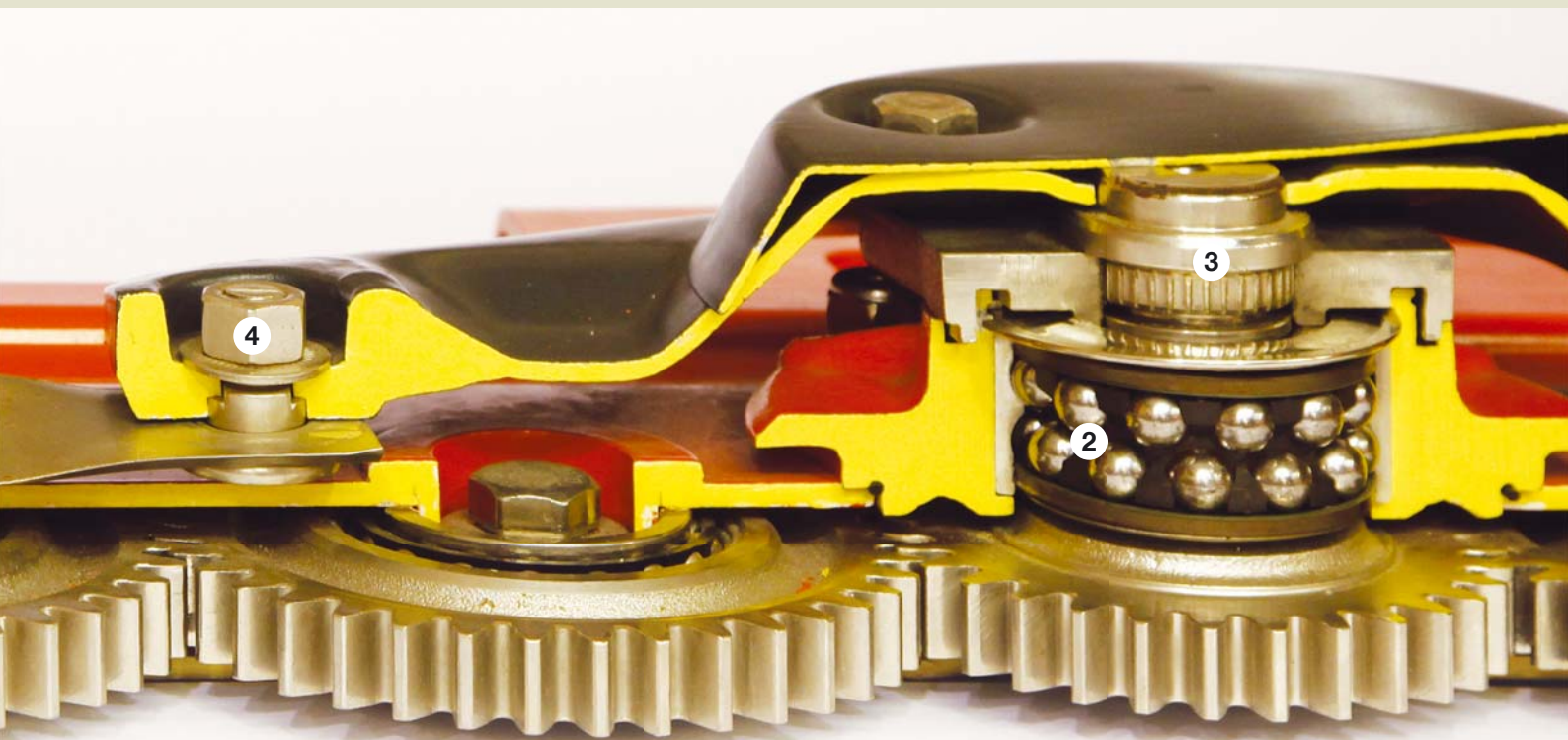


MAXIMUM CUTTER BAR PROTECTION

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.

TAKE 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.



MINIMIZE MACHINE DOWN TIME

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

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.

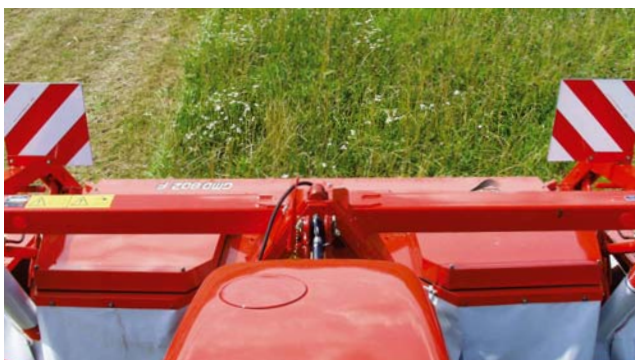
EXCLUSIVE

100 % SAFE KNIFE ATTACHMENT TO SAVE TIME

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

HIGH OUTPUT, HIGH USER

The KUHN GMD 102 F mowers can be used in numerous working conditions to match the needs and precise aims of the user. In combination with a rear self-loading wagon, they can perfectly serve daily feeding needs. By combining the front-mounted with a rearmounted mower a cutting



A COMPACT, LIGHT AND BALANCED UNIT

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

EXCELLENT VISIBILITY

Working in comfortable conditions, with all round visibility, the driver has a panoramic view over the machine. The mower accurately responds to the steering action of the front tractor wheels, giving irregular shaped borders an impeccable finish. It is possible to mow close to hedges, fences and other obstacles.

COMFORT

width of up to 8.75 m can be achieved for high output. Additionally, this contributes to a better weight distribution over both tractor axles. No matter which combination you operate, in any case you will be able to enjoy the high user comfort of the KUHN GMD 102 F models.



That's how *profi*, a German farm machinery magazine, evaluated the performance of the KUHN triple disc mower combination GMD 802 F (front) and GMD 8730 (rear) in a field test:

Ground adaptation front/rear.....	+	+	+
Quality of work.....	+	+	+
Swath deposit.....	+	+	+
Power requirement.....	+	+	+
Blade exchange.....	+		

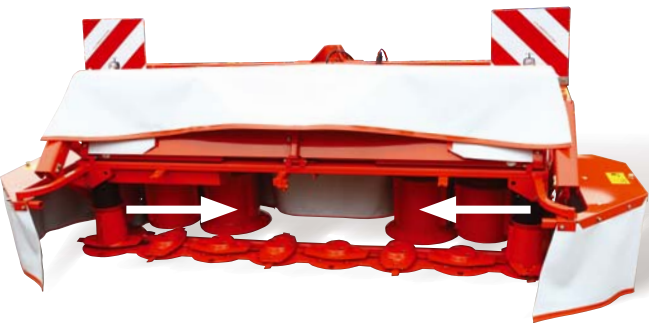
MARKING

++	+	○	-	--
very good	good	average	below average	inadequate

THE KUHN PLUS

WELL-FORMED SWATHS, NOT CRUSHED BY TRACTOR WHEELS

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 fodder. Therefore, KUHN's front-mounted mowers actively contribute to the fodder's nutritional value!



Source: *profi*, Magazin für professionelle Agrartechnik, edition 1/2011



GMD 1020 F COMPACT SERIES

THE MOUNTAINEERS AMONG FRONT MOWERS

With this new 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.

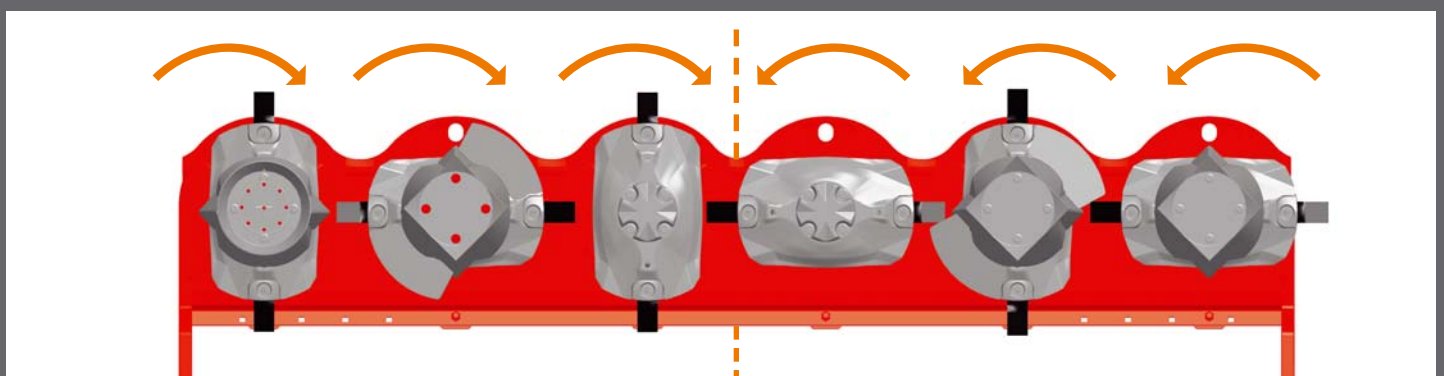


PRECISELY ADAPTING TO THE TERRAIN

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, the tractor.





OPTIDISC FOR PERFECT CUTTING QUALITY

The concept of the new 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 (PROTECTADRIIVE) – modules as well as intermediate gears quickly and easily interchangeable - lubricated for life, no oil changes necessary.

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 702 F	GMD 802 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)	-		120/3'11" (with 2 swath bords)	130/4'3" (with 2 swath wheels)
PTO speed (min ⁻¹) rotation to the left or right	1000 (540 as option)		540 or 1000	
Minimum PTO power requirement (kW/hp)	36/49	41/56	36/49	41/56
Weight approx. (kg/lbs)	805/1775	888/1958	544/1199	596/1313
Lightning and signalling	◇	◆	◇	
Necessary hydraulic equipment	1xSA		-	

◆ Standard ◇ Option - Not available

Optional equipment GMD 102 F series*:

A-frame cat. 2 for tractor front linkage – raised skid shoes – side deflector kit for very long forage – secondary PTO shaft with free wheel and friction slip clutch.

Optional equipment GMD 1020 F COMPACT series*:

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

KUHN SERVICES *

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 KUHNITECH. 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.

*Not all services and equipment are available in all countries



DISC AND DRUMS. FRONT AND REAR.



Triple gang drum mower : PZ 321F + PZ 900

DRUM MOWERS: MANY EXPERIENCES CONTRIBUTE TO A CLEAN CUT

Ever since the first drum mower was invented almost 50 years ago, KUHN has gained much experience in its Dutch factory with a Research & Development department constantly improving the KUHN drum mowers to stay ahead of the competition.

Innovations such as LIFT-CONTROL, the easy height adjustment, FLEXPROTECT and a modular design are features, which you can find on current models.

KUHN offers an extensive range of front and rear mounted drum mowers with working widths from 1.65 to 8.95 m (5'5" to 29'5").

Check out the whole KUHN range of disc mowers!



1. Horizontal fold disc mowers 2. Vertical fold disc mowers 3. Triple gang disc mowers 4. Disc mower conditioners

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www.kuhn.com



Visit us
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Some machines have a considerable weight. Respect the tractor gross vehicle weight rating, its lift capacity and maximum load per axle. The tractor front axle load must always reach minimum 20 % of the tractor net weight. Our material is produced in accordance with the European Machinery Directive in the member states of the European Union. In countries outside the E.U., our machinery complies with the safety regulations set by the country concerned. Some safety devices may have been removed from our leaflets in order to clarify the illustration. Under no circumstances should the machine be operated without the necessary safety devices in place (as specified by the assembly instructions and operators manual). We reserve the right to change any designs, specifications or materials listed without further notice. Machines and equipment in this document can be covered by at least one patent and/or registered design. Trademarks cited in this document may be registered in one or several countries.

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