

FC



Trailed Mower-conditioners FC 243 / 283 / 313 TG / RTG



HAY MAKING AT ITS BEST!



KUHN Mower Conditioners Features

Exceptionally manoeuvrable and low power requirements thanks to the weight saving design, FC 243/283/313 TG/RTG mower conditioners ensure quality mowing.

- Easy mowing on **sloppy fields** thanks to their manoeuvrability and reduced weight.
- Weight saving design and efficient power transmission equal low power requirements, even in tough conditions.
- Produce quality forage by choosing the type of conditioning which will speed up the drying process without losing nutritional value. Nylon fingers or rollers for best conditioning of grass and leguminous crops.

These features are available on all 3 models whether choosing a 2.40 m / 7'11", 2.80 m / 9'2" or 3.11 m / 10'2" working width.



COST REDUCTIONS



GOOD PRACTICE

KUHN offers solutions for mowing while meeting your requirements in terms of:



**COMFORT - QUALITY
OF LIFE**



PROXIMITY - ADVICES



**PEACE OF MIND -
SERVICES**

ES

Manoeuvrability and light weight for mowing in difficult conditions

> This range of mower conditioners combines reduced weight and reliability to work well on hilly field conditions.

A professional range for mixed farming/livestock operations.

These mower conditioners are particularly well suited for medium size farms equipped with tractors of medium power.



3



Adapt the swathing width

- Swathing: according to the weather conditions, the swath width is set by means of the pivoting rear swath flaps,
- Wide spreading to save passing with a tedder: specific deflectors distribute crop over the whole cutting width.

Large tyres for a perfect stability

Fitted with large diameter tyres, these machines provide good floatation in all circumstances minimizing soil compaction and crop stubble damage. On FC 283 and FC 313 TG/RTG models, the multi rib tires maintain an excellent grip when working on slopes.



A compact machine suited to perform, even in the most difficult conditions

- Low height and weight machines, the trailed FC 243, 283 and 313 thread their way anywhere and are well adapted to irregular grounds. Their compactness provides good stability.
- Low power consuming, they can travel uphill with any type of tractor.



Articulation
of the mowing
unit by upward
sloping links
to allow obstacles
to be avoided



Low maintenance thanks to vibration isolation joints

The vibration isolation joints will spare the user fastidious lubrication operations such as the header suspension links.

Maintenance free header suspension arm joints ensure long-lived header ground contouring without seizing.



Attachment manoeuvrability: assets of the Gyrodine® swivel hitch

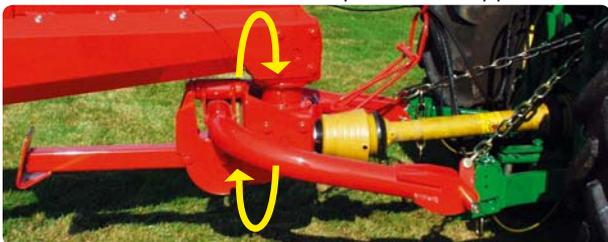
Easier mowing on headlands as well as round obstacles, isolated trees, hedges... The Gyrodine hitch allows mowing square corners without skips for maximum productivity.

PTO driveline is always straight, so PTO U-joint wear and vibration is minimized, ensuring long trouble free driveline life.

- Mower can be adapted for use with 540 or 1000 min⁻¹ PTO tractors. Inverting the Gyrodine gearbox changes input speed.

No extra parts to buy.

- The hitch attachment is held in place with support chains supplied as standard.



The Gyrodine swivel hitch: 540 or 1000 min⁻¹



Controlled mowing on turns

Benefit from KUHN's technology to obtain quality crop

> The mowing operation is a key factor in obtaining quality forage. With the FC 243, 283 and 313 TG/RTG, KUHN offers adjustment possibilities to suit numerous conditions:

- Adjustable conditioning intensity by modifying the conditioning hood and comb position, or roller pressure. Controlled power consumption even when adjusting the intensity to the maximum.
- Adjustment of the cutting height
- Ground following by altering the floatation settings.



Disc design

- More efficient than a round disc in ejecting cut material (no crop "swirls" on the discs)
- Greater knife overlap for a cleaner cut in a greater range of crop conditions
- A bent knife cannot contact a neighbouring disc
- Reduced risk of foreign objects getting caught between two discs.

Centralized floatation adjustment

Suspension: set by one turn of the handle

The ground pressure of the mowing conditioning unit can be set according to:

- Firmness of the ground
- Uniformity of the field
- Risks of moving dirt into the crop
- Working speed.

Suspension is easily adjusted by means of a central crank. Positioned at the centre of the cutter head, the floatation springs enable the machine to rest on the ground with an even pressure over the entire width.

Direct reading of the cutting height

Easy adjustment of the cutting height

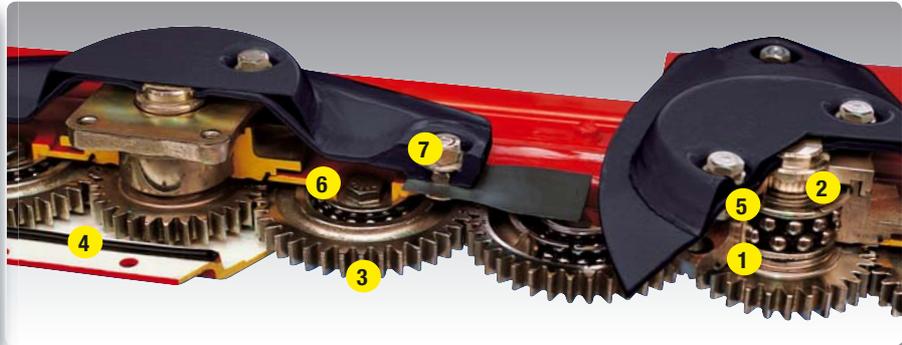
The height is adjusted from 30 to 80 mm by means of only one link rod on the right side of the machine. An easy to read indicator shows the actual cutting height.

Clever mowing!

The most even cutting height for optimum grassland dry matter output. Sufficient height facilitates regrowth and prevents crop from being soiled with earth.

Same features as the larger models!

In choosing an FC 243, 283, 313 TG/RTG the farmer benefits from the features of the KUHN cutterbar which is proven and refined by hundreds of thousands of cutterbars produced over 30 years. Kuhn performance and reliability is the result of superior design and quality manufacturing.



1 Withstands the highest loads

High capacity bearings fitted in a one piece sealed housing not subject to distortion.

2 Protection should an obstacle be struck

The PROTECTADRIVE® system protects the cutterbar gear train and minimizes downtime risks in full season.

3 Long-term functioning

Large diameter gearwheels in high tensile forged steel with reinforced teeth.

4 Perfect sealing

O-rings used on cutterbar bearing housings for a perfect, leak-free seal.

5 Increased service life

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

6 Minimum wear or distortion risks

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

7 Highly wear resistant

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

Choice of bolts or quick-release FAST-FIT® attachments

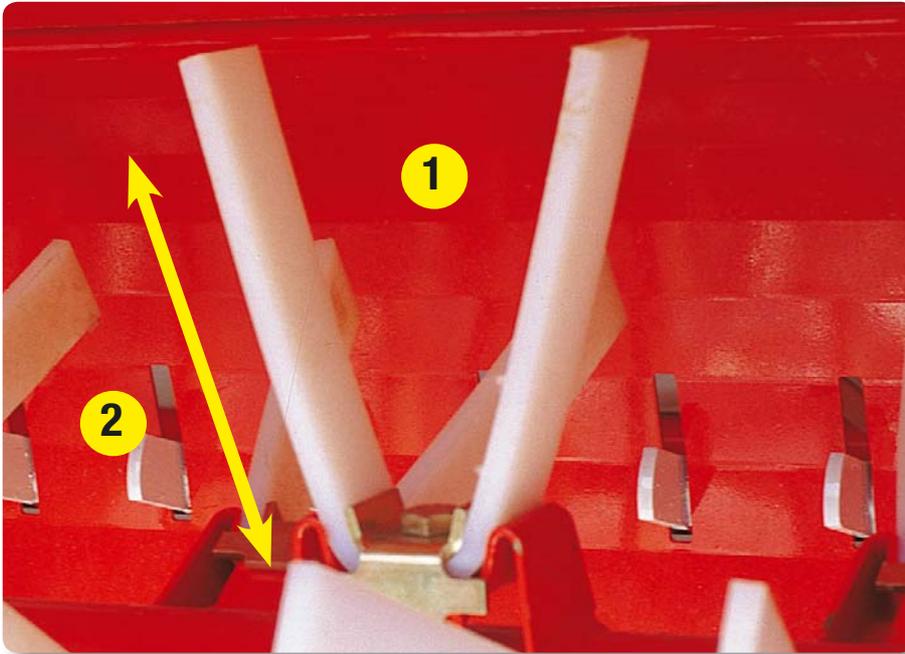
Depending on the country, FC TGs can be equipped with blades attached by bolts or a quick-release spring blades. Their design ensures that they are comfortable to use and absolutely safe, with reduced maintenance costs.



FAST-FIT® quick-release

Bolt attachments

Finger conditioning...



V-shaped nylon finger conditioning rotor

The fingers that condition the crop are V-shaped and made of highly resilient and longwearing nylon:

- 1 Should a foreign object pass through the conditioner, the fingers will bend out of the way and then regain their original position without damage.
- 2 Fingers are gentle, yet efficient, producing a uniform, fluffy swath that maximizes the circulation of air and reduces drying time.

All in all,
36 possibilities to
adjust the conditioning
intensity!



Adjustments to control conditioning

3 ways to adapt the conditioning action to each type of crop



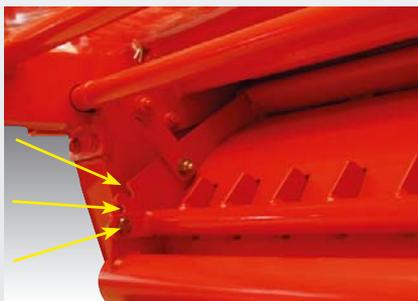
Conditioning hood adjustment

6 conditioning hood positions:

The distance between conditioning rotor and conditioning hood is adjusted by means of a single lever.

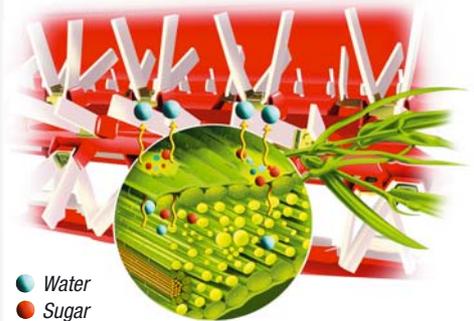
3 positions of the finger comb mounted in the conditioning hood, including one retracted position for mowing delicate crops.

2 conditioning rotor speeds (615 and 888 min⁻¹): to adapt the conditioning intensity to the type of crop, by simply inverting the 2 pulleys.



Finger Comb in retracted position

The V-shaped fingers remove the wax from the stems, allowing moisture to escape, thus accelerating the drying process.



Fine adjustment to meet regulations

- Gentle conditioning for Alfalfa, and other leafy crops
 - Intense conditioning for stemmy grasses and other tough crops.
- Wide spreading is available for uniform swathing of grasses.



Gentle handling of delicate crops

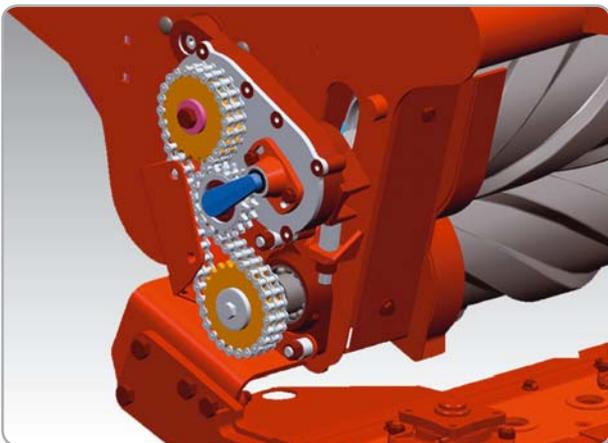


RTG models are available in three working widths: 2.40, 2.80 and 3.11 metres (7'10", 9'2" and 10'2"). Roller conditioning will prove its efficiency in preserving nutritional qualities of delicate crops. The protein richness of leguminous crop will be preserved.



Polyurethane rollers

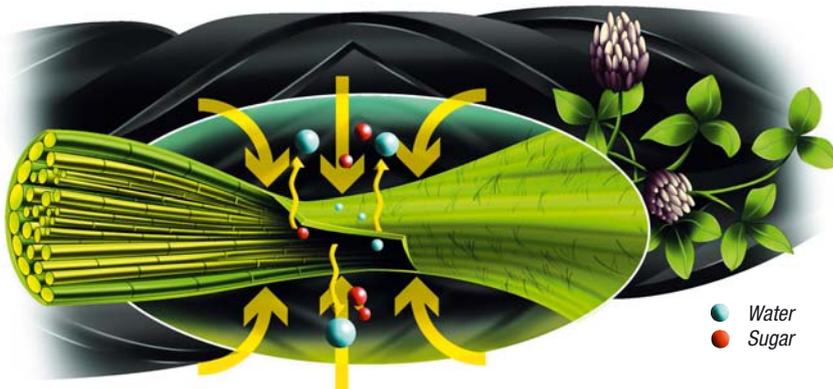
- With their chevron-form, they provide optimum conditioning of delicate crops. Leaves and stalks are regularly crimped and compressed in even layers thanks to the important roller width.
- The pressure between the rolls is quickly adjusted by means of an easily accessible adjustment screw.



Roller drive

Both rolls are power driven and synchronized to provide optimum longterm functioning in all conditions.

Synchronized roller drive



How does it work?

Rollers crimp the plant stems, allowing moisture to escape. This accelerates the drying process.

● Water
● Sugar

Agronomical strong point: The benefits in conditioning crop!



Save time...

- by conditioning: one tedding operation less,
- drying time is reduced by 25 to 30%, i.e. 2 to 3 hours!

Reduce time between mowing and the end of silage operations.



Conditioning: when can it prove to be useful?

- with an uncertain weather forecast: fast drying allows mowing between two rainy periods,
- for silage making: forage sugar content will be higher, consequently fermentation will be accelerated and preserve the crop's value.

...and gain in forage value

- **less leaf loss:** with one tedding operation less and simultaneous drying of leaves and stalks,
- **More sugar:** gaining time means gaining on the sugar level (up to 1% DM more). As long as cut grass remains in the field, the sugar level decreases through "breathing",
- **More nitrogen:** the longer the crop lies on the ground, the lower the nitrogen level.
- Increased fibre **digestibility**.

...for a healthy and productive livestock

Increased production profitability:

- With quality crop, to reduce purchases of concentrates, 1st item in the milk production operational costs.
- Work output: optimize silage work.

Savings in sight!



Less dependent on weather conditions

Faster drying reduces risks of exposure to rain.



TECHNICAL SPECIFICATIONS		FC 243 TG/RTG	FC 283 TG/RTG	FC 313 TG/RTG
Working width (m/ft)		2.40 / 7'11"	2.80 / 9'2"	3.11 / 10'2"
Number of discs		6	7	8
Attachment		2 point - Category 2		
Gyrodine Swivel hitch PTO speed (min ⁻¹)		Factory setting: 540 Possibility to modify to 1000		
Free wheel		Standard		
Ground hugging		Per upward slopping and articulated link rods		
Weight reduction		Per springs in horizontal position		
Conditioning system		V-shaped nylon fingers and adjustable conditioning hood with retractable comb (TG) or roller conditioner (RTG)		
Conditioning rotor speed (rpm)		615 / 888 (nylon fingers) 1000 (rollers)		
Swath width min./max. (m/ft)		0.90 to 1.40 2'11" to 4'7"	1.20 to 1.80 3'11" to 5'11"	1.30 to 2.10 / 4'3" to 6'11" (TG) 1.30 to 2.30 / 4'3" to 7'7" (RTG)
Wide spreading		Standard on TG		
Adjustment of cutting height		By only one rod		
Adjustment of weight reduction		By only one handle		
Transport width (m/ft)		2.50 / 8'2"	2.99 / 9'10"	3.30 / 10'10"
Transport length (m/ft)		4.95 / 16'3"	4.95 / 16'3"	5.35 / 17'7"
Tyres		10/80 - 12	11L 15 SL	11L 15 SL
Weight (kg/lbs)	TG models	1395 / 3075	1465 / 3230	1595 / 3516
	RTG models	1495 / 3295	1565 / 3450	1695 / 3736
Minimum PTO power requirement (kW/hp)		44/60	51/70	59/80
Necessary tractor hydraulic equipment		1 double acting valve 1 single acting valve		
Lights and signalling equipment		Standard		

KUHN Services*: benefits for maximum use and profitability of your equipment



* Some services may not be available in certain countries.

► The KUHN difference through services means...

- Receiving advice of **partners trained** in the latest product developments, to select the machine best suited to your needs,
- Benefiting from a **technical documentation** that will accompany you during all of your machine's service life, to best capitalize on your machine,
- Having a **Parts service available** all day round, 7 days a week at competitive prices,
- Anticipating the unexpected with the **KUHN PROTECT** warranty extension, and face the unexpected with **KUHN i tech** at your dealership,
- Investing **rationally** with **KUHN FINANCE**.

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YOUR KUHN DEALER:

KUHN NORTH AMERICA
Corporate Headquarters
1501 West Seventh Avenue - P.O. Box 167
Brodhead, WI 53520-0167 USA
Tel: (608) 897-2131 - Fax: (608) 897-2561
www.kuhnnorthamerica.com
KUHN FARM MACHINERY PTY. LTD
7 Manorwood Pl. - MITCHAM, 3132 VIC,
Fax: 03 9874 3462
www.kuhn.com

United Kingdom :
KUHN FARM MACHINERY (U.K.) LTD
Stafford Park 7,
TELFORD - SHROPSHIRE TF 3 3 BQ
Phone: TELFORD (01952) 239300/1/2
Fax: (01952) 290091
www.kuhn.co.uk



KUHN S.A. - F - 67706 Saverne Cedex
www.kuhn.com