Central pivot and side pull disc mower conditioners FC 303 - FC 353
Kuhn, a pioneer in disc mower conditioners, continues to provide farmers with Disc Mower Conditioners that increase productivity while reducing losses in the field.

KUHN Disc Mower Conditioners:

- Decrease drying times with Kuhn’s exclusive Finger/Comb system - higher quality hay and forage that ultimately increases profits.

- Retain the nutritional value of crop due to the exceptional header suspension system - scalping is minimized to reduce contamination by dirt and stubble height is maintained for faster regrowth.

- Gain from innovations such as the single point suspension adjustment - fast, easy and precise suspension adjustment to meet varying conditions.

- Reduce maintenance requirements due to special articulation joints that are maintenance free.

- Minimize downtime with equipment of which reliability and longevity are renowned - maximum productivity from machines with a reputation that insures a high resale value.

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

COST REDUCTIONS
GOOD PRACTICES
Central Pivot or Side-Pull…
They share the same manoeuvrability!

The KUHN FC 303 and FC 353 are the result of KUHN’s many years of disc mower conditioner research, development and experience. Particular concern has been paid to four fundamental principles:
• Exceptional floatation capability
• Easy adjustments without the need for tools
• Reduced maintenance requirements
• High reliability and long service life while under intensive use.

GIRODYNE® swivel hitch. The time-tested champion
- The FC 303 & FC 353 Center Pivot and Side Pulled machines use KUHN GIRODYNE swivel hitches that provide exceptional maneuverability and reliable power transmission.
- Equipped with an integral oil pump and proven over many years in Kuhn’s larger disc mower conditioners this GIRODYNE hitch will provide years of reliable service. With only one oil sump maintenance, requirements are also reduced.

**GIRODYNE® swivel hitch with integral oil pump for better cooling and lubrication with less maintenance**

**GIRODYNE® swivel hitch: unsurpassed manoeuvrability in every situation**

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
<th>FC 303 GL</th>
<th>FC 303 YGL</th>
<th>FC 303 RGL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width (m/ft)</td>
<td>3/9’10”</td>
<td></td>
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<tr>
<td>Hitch</td>
<td>Side-Pull</td>
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<tr>
<td>Number of Discs</td>
<td>6</td>
<td></td>
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<tr>
<td>Type of Conditioner</td>
<td>Finger Comb</td>
<td>V-shaped nylon fingers*</td>
<td>Chevron rolls</td>
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</tbody>
</table>
| Swath width (m/ft)        | From 1.00 (3’3’’) to 2.00 (6’7’’) | From 1.00 (3’3’’) to 2.00 (6’7’’) | From 1.00 (3’3’’) to 2.00 (6’7’’)

(*) Not available in all countries.
Center Pivot design increases work output and efficiency.

The center pivot tongue, which has been a standard feature of large mower conditioners for years, will also provide significant advantages to these “mid-sized” machines. Productivity and versatility are increased while time spent “dead heading” in the field is minimized.

The center pivot design also enables the tractor to always work on the uphill side of the mower ensuring a full width of cut with each pass.

<table>
<thead>
<tr>
<th></th>
<th>FC 303 GC</th>
<th>FC 303 YGC</th>
<th>FC 303 RGC</th>
<th>FC 353 GC</th>
<th>FC 353 RGC</th>
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<td>3/9’10”</td>
<td>3/9’10”</td>
<td>3/9’10”</td>
<td>3.50/11’6”</td>
<td>3.50/11’6”</td>
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<td>Central</td>
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<td>7</td>
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<tr>
<td>Finger Comb</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.20 (3’11”) to 2.50 (8’2”)</td>
<td>From 1.20 (3’11”) to 2.50 (8’2”)</td>
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<tr>
<td>V-shaped nylon fingers*</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.20 (3’11”) to 2.50 (8’2”)</td>
<td>From 1.20 (3’11”) to 2.50 (8’2”)</td>
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<tr>
<td>Chevron rolls</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.20 (3’11”) to 2.50 (8’2”)</td>
<td>From 1.20 (3’11”) to 2.50 (8’2”)</td>
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<tr>
<td>Finger Comb</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
<td>From 1.00 (3’3”) to 2.00 (6’7”)</td>
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<td>Chevron rolls</td>
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<td>From 1.20 (3’11”) to 2.50 (8’2”)</td>
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</tbody>
</table>

(*) Not available in all countries.
High productivity grouping units

The center pivot FC 303/353 GC/RGC RA mower conditioners offer much more than traditional machines fitted with a grouper. Designed to suit a wide range of varied working conditions.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>FC 303 GC RA</th>
<th>FC 303 RGC RA</th>
<th>FC 353 GC RA</th>
<th>FC 353 RGC RA</th>
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<td>3.50</td>
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<td>Conditioning systems:</td>
<td>Finger Comb II</td>
<td>Chevron rolls</td>
<td>Finger Comb II</td>
<td>Chevron rolls</td>
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<td>2 swath grouping width (m/ft)</td>
<td>1.50 - 2.20 /5' - 7'3&quot;</td>
<td>1.70 - 2.50 / 5'6&quot; - 8'2&quot;</td>
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<tr>
<td>Weight (kg/lbs) (approx.)</td>
<td>3150/6930</td>
<td>3250/7150</td>
<td>3300/7260</td>
<td>3400/7480</td>
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<td>Tractor power required (kW/hp)</td>
<td>85/115</td>
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<td>100/135</td>
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<tr>
<td>Braking</td>
<td>As standard equipment where required</td>
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</table>

Swath grouping to the left or right

The advantages of the center pivot are enhanced. Depending on the shape of the field, you can easily adapt the machine by choosing the best working combination: mow to the right or to the left and group to the right or left and conditions dictate.
The conveyor system pivots up and down

For the first pass, the conveyor is pivoted up at the rear of the conveyor.
- Centre of gravity stays low: and the machine stays very stable, especially on steep slopes.
- During prolonged use without grouping, movement and shock loads on the grouper are minimized improving the life of components.

Roller Conveyor

- Carry dense, damp rye-grass and alfalfa or sparse dry grasses uniformly to the cross-conveyor
- Minimized crop losses across a wide range of working conditions.
- Conveyor rollers are driven with a hydraulic motor and maintenance-free gearbox.

Control Box

- The grouping controls are operated from the tractor cab: Choose manual or automatic control of each function.
- Automatic mode, the machine changes automatically from swathing to grouping each time the cutting head is swung from left to right and back.
- The conveyor speed can be adjusted to set the swath width required to match the forage density and ground conditions.

New FingerComb II conditioner

Twin fingers on a large diameter drum ensure efficient, regular discharge of the forage to the swath conveyor.
The new FC 303 and FC 353 disc mower conditioners were designed from the ground up to not only improve performance but to make the operation and adjustment of the machines as easy as possible.

CONSTANT FLOAT® suspension

Floatation of the header unit is one of the most important factors in harvesting a quality crop while reducing damage to stubble and increasing the overall life of the mower conditioner.

The suspension on the FC 303 GC and FC 353 GC is obtained by mounting long springs horizontally in the chassis which act through pivoting bell cranks and link rods on the header unit. This particular design when combined with the low mounting points of the lower mounting arms maintain near constant header weight throughout a travel range of approximately 40 cm/16”.

Suspension Rods...

- A three-point suspension system links the mowing and conditioning header to the chassis. Using the lowest possible push points should an obstacle be encountered, the header unit will move up and back to minimize the risk of damage.
- Pivot points use an exclusive joint where special poly bushings rotate on chrome plated pins for a longer life than traditional methods as there are no grease or maintenance requirements.

...Vibration isolation joints

Kuhn’s exclusive use of vibration isolation joints to mount all key structures isolates vibration. The result is less mechanical fatigue on all structural components and longer service life.
Excellent control on slopes and turns

The low center of gravity and wide footprint of the FC 303 & 353 GC results in excellent control while operating on slopes and when turning.

Main drive belt central pivot machines

Main power transmission in the drive of the FC 303/353 GC machines includes a banded belt. The belt drive design provides improved absorption of shock loads and power spikes and is fitted with an automatic tensioning system that requires no maintenance over the life of the belt.

Note: Side pull machines are not equipped with a belt in the main drive system.

Features to appreciate...

Cutting height adjustment

- An easy to read indicator shows the actual cutting height in cm and inches.
- The cutting height is adjusted by turning the top suspension link.

Single point adjustment

Only one crank is necessary to adjust the floatation on both sides making adjustment to various conditions a fast and easy task. By removing a single pin from behind the crank handle, the header can be balanced between the left and right sides.
Finger Comb

- Free swinging conditioner fingers and conditioning comb. A Kuhn exclusive: the round profile of the forged Kuhn conditioning fingers provide thorough conditioning with less leaf loss and shredding than other impellor conditioning systems.
- The base of the crop enters the conditioning system first, allowing the fingers to make initial contact with the portion of the crop that is the most difficult to condition.
- An adjustable comb is used to regulate the conditioning intensity through a multi-position lever that is easily accessible.

V-shaped nylon finger conditioning, adjustable conditioning hood and comb

The fingers that work the crop are V-shaped and made of a highly resilient material which stays supple on a transversal level.
1. In this way, should a foreign body pass through the conditioner the fingers can bend out of the way and then regain their original position without being damaged.
2. On the contrary, the fingers are rigid in the rotational direction of the rotor, which enables a fluffy and regular swath to be obtained. This reduces drying times thanks to improved air circulation.

3 Conditioning System Adjustments according to the forage type: conditioning rotor speed - conditioning hood position - comb position, including fully retracted. The V-shaped fingers break down the waterproof wax coating of the crop. This lets the moisture out more quickly so the forage dries quicker.

Made to measure conditioning...

Choose the conditioning system that matches conditions:

- Finger conditioners with steel fingers or V-shaped nylon fingers for grass type forage.
- Conditioner rolls for leafy and legume forage.

Mower Conditioners
FC 303 - FC 353

Two-speed, lever controlled gearboxes

- Choice of conditioning speed on machines with finger conditioner. Choose 600 or 1000 min⁻¹ (rpm): Quick and easy speed change at the touch of a lever.
- The conditioning drive by belt system with automatic tensioning adjustment eliminates a maintenance point.
Chevron polyurethane rolls

- Proven chevron profile: forage is uniformly but gently conditioned
- “Dual action” conditioning: stems are crimped and the wax coating is broken down by friction between the crop

Result: stems and leaves dry at the same time, the ridges mesh progressively and regularly to give a better quality forage.

Single point adjustment of roll pressure

- Change conditioning intensity by varying the pressure between the rolls.
  - Adjustment centrally located and is easy to access.
  - Reliable simple design.
  - Rolls open for foreign objects to pass

Safe and reliable drive system

Feeding is ensured by 2 linked and synchronized rollers.
Primary drive through a belt system with automatic tensioning absorbs shock loads.
Final drive with a maintenance-free gearbox.
Mower Conditioners
FC 303 - FC 353

Kuhn technology that allows peace of mind

Large diameter gears drive the discs. Reliability is ensured thanks to a gear tooth shape that permits two teeth to be fully engaged at all times. Consequently, lower gear tooth loads mean longer life and quieter power transmission. Pinions made of high tensile forged steel with reinforced teeth for increased strength and durability.

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 steels 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.

Easy to service outer cones

The outer conical discs ensure a clean splitting of the cut crop while preventing clogging risks in very dense crops. As all other cutterbar discs, they have been designed to be easily replaceable without tedious dismounting.
Kuhn offers choice...

**Mower Conditioner WITH SIDE-PULL**

**Working width of 3.00 m**

- FC 303 GL
- FC 303 YGL
- FC 303 RGL

**Conditioner with free swinging fingers and comb**

**FC 303 GLV**

**V-shaped nylon finger conditioner, adjustable conditioning hood and comb**

**Conditioner with chevron form rubber rollers**

**Mower Conditioner WITH CENTRAL PIVOT**

**Working width of 3.00 m**

- FC 303 GC
- FC 303 YGC
- FC 303 RGC
- FC 303 RGC RA

**Conditioner with free swinging fingers and comb**

**FC 303 GC RA**

**V-shaped nylon finger conditioner, adjustable conditioning hood and comb**

**Mower Conditioner WITH CENTRAL PIVOT**

**Working width of 3.50 m**

- FC 353 GC
- FC 353 GC RA
- FC 353 RGC
- FC 303 RGC RA

**Conditioner with free swinging fingers and comb**

**Finger comb II with conditioning hood and comb**

**Conditioner with chevron form rubber rollers**
Mower Conditioners
FC 303 - FC 353

Solutions for special needs...

The FC 303 and FC 353 are designed with options for all climates and forages.

- Offset Swath Shields place swaths close together for direct pickup with a forage harvester,
- Wide Swath Kit spreads forage across the full width cut to maximize exposure to air and sun for increased drying.

Wide Swath Kit

Normally with fully opened swath shields, the swath can be spread over 80 % of the cutting width. To increase this spreading width even further, a wide spreading kit can be fitted that allows the swath to cover 100 % of the cutting width.
Optional on the FC 303 GL / GC and the FC 353 GC.
Standard on the FC 303 YGL / YGC.

Increase forage quality with wide spreading

- The drying speed is increased by more exposure to the sun and air.
- Reduce the need for tedding to reduce field losses.

Lay a wide swath to increase drying
....or swath grouping

Quick and easy manual adjustment of shields on the FC 303 GC and FC 353 GC

Swath offset to the left

When using a central drawbar and mowing back and forth this will create a double swath that can be easily picked up by a forage harvester with a suitable pickup. The width of 2 swaths together is approximately 3.20 m (FC 303 GC) and 3.70 m (FC 353 GC).

Automatic hydraulic swath shields on the FC 303 GLV

The FC 303 GLV Mower Conditioner – A machine designed and built for the job. Not simply a standard machine with hydraulic controlled shields added on. Completely designed to ensure effective swath grouping in the most difficult conditions while remaining multi-purpose.

New FingerComb II conditioner

Provides a higher forage discharge rate for the smallest possible overall width: from 2.80 m in optimum conditions to 3.20 m in more difficult conditions.

FC 303 GLV: optimised for effective grouping

Large swath shields as standard

The swath unit is controlled with a lever and is ready with one adjustment to place 2.20 m wide swaths.

Adjustable hydraulic swath shields

The width adjusts to adapt to the widest silage cutter pick-up. Drying is easier with wider swaths.

Indexing the drawbar

To avoid driving over the swaths the drawbar changes between 2 pre-set positions each time the drawbar is swung.
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>FC 303 GL</th>
<th>FC 303 GLV</th>
<th>FC 303 YGL</th>
<th>FC 303 RGL</th>
<th>FC 303 GC</th>
<th>FC 303 GC RA</th>
<th>FC 303 RGC</th>
<th>FC 303 RGC RA</th>
<th>FC 353 GC</th>
<th>FC 353 GC RA</th>
<th>FC 353 RGC</th>
<th>FC 353 RGC RA</th>
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<td>Finger comb</td>
<td>Finger comb II</td>
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