

# Sprint

Quality cutting that makes the difference. Always.



MOWERS

FRONT DISC

**marangon**

AGRICULTURAL MACHINERY



## Cut clean. Work light. Yield more. The compact front mower that combines precision, adaptability, and forage quality.

### FRONT DISC MOWER WITH SELF-LEVELING SUSPENSION AND OIL-BATH TRANSMISSION.

The **Sprint** front mower-conditioner is an advanced solution for forage cutting, offering both **precision and versatility**. It can be connected to the tractor via front lift or quick hitch triangle, ensuring optimal cutting adjustable through the third point. Primary and secondary **oil-bath transmission** ensures efficiency and continuous operation, while the **Marangon self-leveling suspension** maintains balanced weight, protecting the cutter bar

and precisely following the ground profile.

Available with **roller or steel flail conditioner**, **Sprint** guarantees a clean, high-quality cut in all conditions.

**Working widths from 2.45 to 3.20 meters ensure excellent harvesting performance.**

1

#### “RAZOR CUT” CUTTING GROUP AND CLEAN CUT TECHNOLOGY, MARANGON QUALITY

The high-performance **Razor Cut** cutting group is designed with a compact and wedge-shaped profile to offer wide cutting height adjustment and ensure optimal penetration even in the most challenging forage, always providing a clean and precise cut.

In models with **counter-rotating discs**, the product is spread and deposited broadly, thanks to discs rotating in pairs towards each other.

In models with **inward-rotating discs**, the machine forms a single windrow: particularly advantageous on wet or soft ground, as the product is not compacted by tractor passage and can be collected without losses.

#### ROUND DISC

Reduces impact surface and better disperses shocks, preserving the mechanics of the entire cutting group and **ensuring high cutting quality**.

The 129 mm knives **guarantee perfect overlap and longer durability**: they do not work for the full disc rotation but are protected under the adjacent disc after completing the cut, avoiding unnecessary work and keeping the cut product intact. The system requires less power and allows disc replacement once worn.



4



2

## THREE-DIMENSIONAL GROUND ADAPTATION

The PULL-type attachment ensures **three-dimensional adaptation** to the ground, offering wide excursions even on very uneven surfaces. Spherical joints in the bar's oscillating arms provide exceptional **lateral oscillation of  $\pm 16^\circ$** .



3

3

## ADVANCED MECHANICAL SUSPENSION FOR CUTTING VERSATILITY AND PRECISION

Consists of an additional cam system (patented by Marangon) allowing **wide backward and upward movement** of the cutting group without shifting the machine's centroid.

PLUS



4

## DIRECT TRANSMISSION

Our mowers stand out for their very smooth operation. In **Sprint** models, dynamic drive occurs directly from the first cutting disc. A double universal joint ensures a torsion-free connection between the bevel gearbox and the cutter bar. A freewheel is integrated into the drive of all mowers.



## PULL-TYPE ATTACHMENT

Ensures high freedom of movement, allowing the mower to **adapt to uneven terrain**. The active supporting frame and oscillating arms guide the bar over ground irregularities: it rises over bumps and lowers as the ground falls. The nearly vertical movement reduces PTO slippage and dynamic loads, ensuring **stable and smooth operation**.





## The Marangon conditioner line: efficiency, gentleness, and total control of the product.

### THREE CONDITIONING SYSTEMS TO ADAPT TO ANY FORAGE: ROLLERS, NYLON FLAILS, STEEL FLAILS.

Marangon conditioners are designed to optimize drying times and preserve forage quality, adapting to different crop types and user operational needs.

Each model – with rollers, nylon flails, or steel flails – ensures even conditioning, a regular flow of the product, and precise management of working intensity.

Efficient transmission, intuitive adjustments, and robust construction ensure consistent performance even in demanding conditions, improving yield, uniformity, and final crop quality.

RCG

#### ROLLER CONDITIONER

Thanks to its gentle conditioning, the roller conditioner is **particularly suitable for use with leaf-rich forage, such as alfalfa and clover**. The angular grooved profile with spiral shape produces a strong bending and crushing effect and ensures perfect collection of the forage from the cutter bar.

#### GENTLE, EFFECTIVE, AND UNIFORM

The interlocking profile rollers crush the forage stems evenly, creating a soft and light windrow. The distance between the rollers is easily adjustable thanks to the upper roller with variable height and the pressure adjustable via crank on both sides; in case of foreign objects, they can deflect up to 120 mm.

The flow generated by the discs distributes the product across the entire width of the rollers, ensuring uniform conditioning. Guide plates and adjustable windrow formers allow both wide spreading and uniform windrow formation.



#### INTENSITY ADJUSTMENT

The conditioning intensity is **easily adjustable** via the pushers on the hood. When conditioning is not necessary, the rollers can be completely spaced apart. The product is then gently discharged by the drive rollers, favoring faster drying thanks to improved air passage.

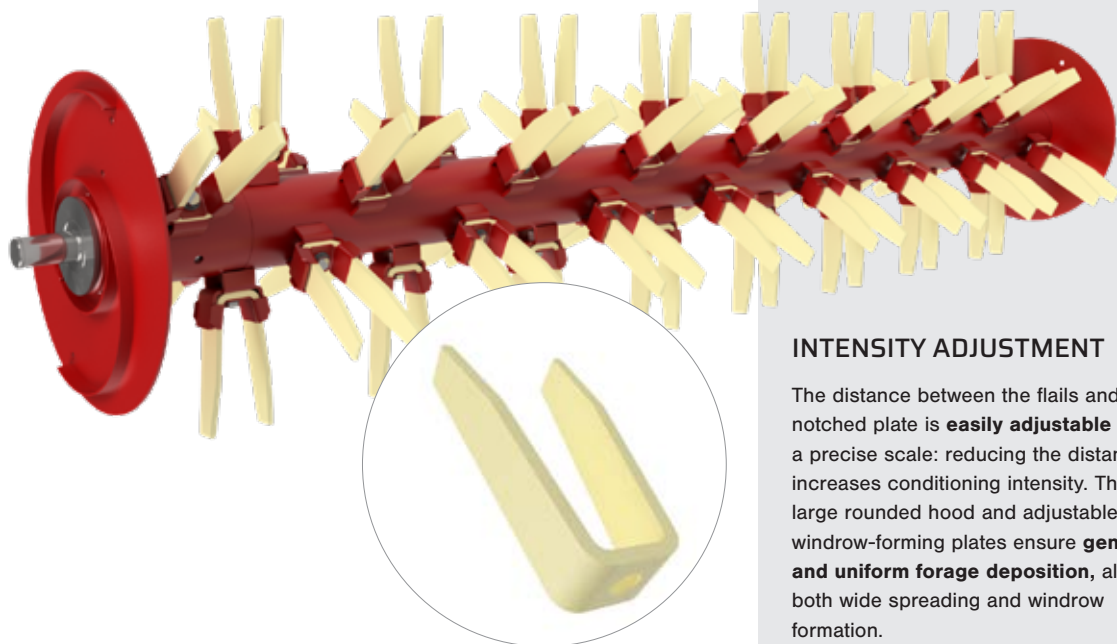
#### RELIABLE AND LIGHTWEIGHT

The polyurethane rollers, with an external diameter of **200 mm**, are made of sectors mounted on robust central tubes: they resist abrasion and can be individually replaced in case of wear. Power is transmitted to the lower roller via **trapezoidal belts**, while both rollers are synchronized by a **gearbox designed to work even in demanding conditions**. Centralized lubrication simplifies maintenance operations.

RCF

## NYLON FLAIL CONDITIONER RCF

V-SHAPED TEETH IN POLYURETHANE



### FAST AND UNIFORM DRYING

The flails bend the forage stems, ensuring a continuous and regular flow, ideal for accelerating drying times.

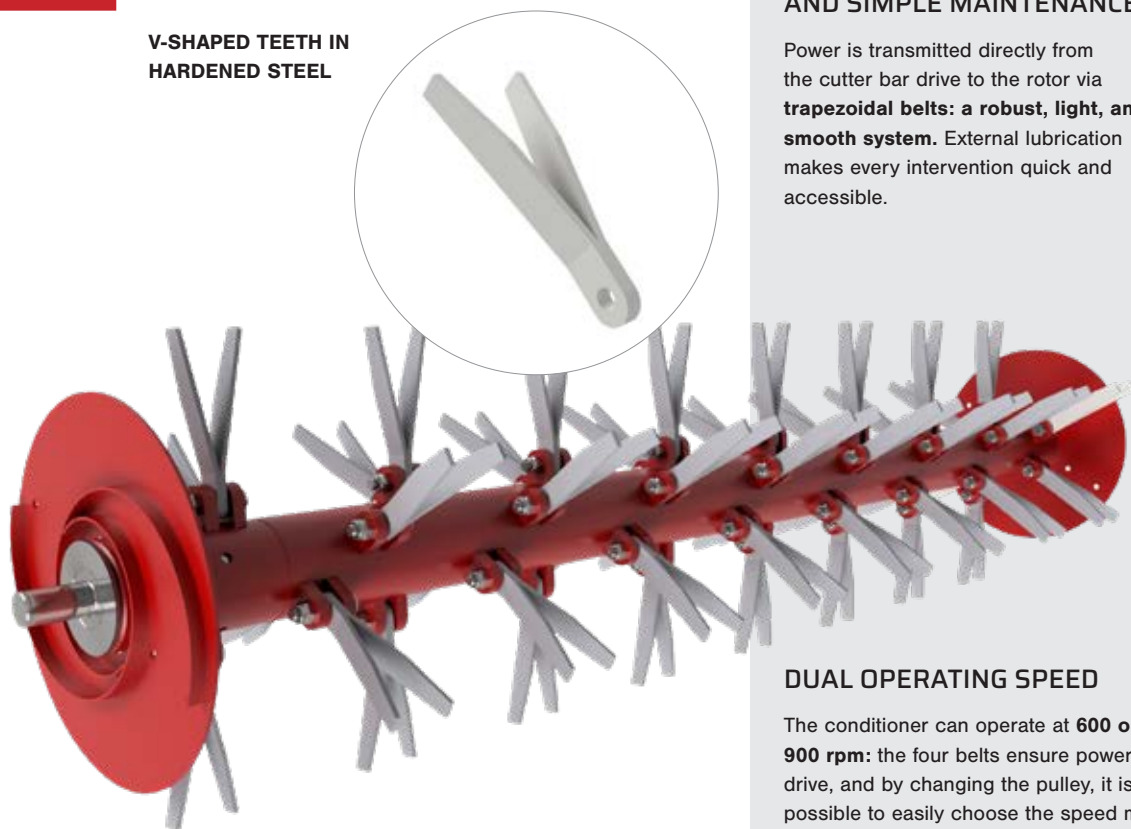
### INTENSITY ADJUSTMENT

The distance between the flails and the notched plate is **easily adjustable** via a precise scale: reducing the distance increases conditioning intensity. The large rounded hood and adjustable windrow-forming plates ensure **gentle and uniform forage deposition**, allowing both wide spreading and windrow formation.

RCFS

## STEEL FLAIL CONDITIONER RCFS

V-SHAPED TEETH IN  
HARDENED STEEL



### EFFICIENT TRANSMISSION AND SIMPLE MAINTENANCE

Power is transmitted directly from the cutter bar drive to the rotor via **trapezoidal belts: a robust, light, and smooth system**. External lubrication makes every intervention quick and accessible.

### DUAL OPERATING SPEED

The conditioner can operate at **600 or 900 rpm**: the four belts ensure powerful drive, and by changing the pulley, it is possible to easily choose the speed most suitable for forage conditions.

MOWERS

FRONT DISC



# Sprint

TECHNICAL DATA

|                                              | SPRINT 245                                | SPRINT 285 | SPRINT 320 |
|----------------------------------------------|-------------------------------------------|------------|------------|
| CUTTING WIDTH FT                             | 8.04                                      | 9.30       | 10.50      |
| NUMBER OF KNIVES                             | 12                                        | 14         | 16         |
| NUMBER OF DISCS                              | 6                                         | 7          | 8          |
| PTO SPEED G/'                                | 1000 left standard / 540 right on request |            |            |
| CONDITIONER                                  | rubber rollers or nylon/steel flails      |            |            |
| REQUIRED POWER HP/KW                         | 65/48                                     | 75/56      | 80/59      |
| REQUIRED POWER RCG (ROLLER COND.) HP/KW      | 75/56                                     | 82/62      | 95/71      |
| REQUIRED POWER RCF (NYLON FLAIL COND.) HP/KW | 70/53                                     | 80/60      | 90/65      |
| REQUIRED POWER RCS (STEEL FLAIL COND.) HP/KW | 75/56                                     | 82/62      | 95/71      |
| WEIGHT LB                                    | 1.366                                     | 1.521      | 1.675      |
| WEIGHT RCG (ROLLER COND.) LB                 | 2.137                                     | 2.469      | 2.601      |
| WEIGHT RCF (NYLON FLAIL COND.) LB            | 2.004                                     | 2.292      | 2.381      |
| WEIGHT RCS (STEEL FLAIL COND.) LB            | 2.137                                     | 2.469      | 2.601      |

IN SUMMARY

- ✓ PRECISE AND UNIFORM CUTTING WITH RAZOR CUT GROUP
- ✓ OPTIMAL GROUND ADAPTATION
- ✓ ADVANCED MANEUVERABILITY WITH PULL ATTACHMENT AND  $\pm 16^\circ$  OSCILLATION
- ✓ DIRECT OIL-BATH TRANSMISSION FOR SMOOTHNESS AND RELIABILITY
- ✓ FAST AND SAFE MAINTENANCE WITH QUICK KNIFE CHANGE
- ✓ SAFE CUTTING SYSTEM

OTHER FEATURES

## "RAZOR CUT" CUTTING GROUP

### MADE IN MARANGON QUALITY

High-performance cutting group, designed with compact and wedge-shaped profile to provide wide cutting height adjustment and best penetration in tough forage, always ensuring clean and uniform cut.

- **Counter-rotating discs:** deposits forage in a broad and scattered pattern.

### CLEAN CUT TECHNOLOGY

Stripe-free cutting thanks to optimal overlapping of blade trajectories.

### MAIN SUPPORT "FIRST AID KIT"

Monoblock support fixed with six screws for quick gearbox inspection.

### REINFORCED "C" COVER

Robust structure that eliminates cutting group flex and prevents torsion of moving components.

### ROUND DISC

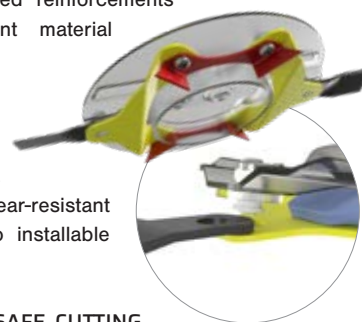
Round profile to reduce shocks and preserve mechanics. 129 mm knives for perfect overlap, longer durability, and lower power consumption. Interchangeable discs.

### WEAR-RESISTANT PLATES

Borated steel slides with rounded reinforcements and lower profiling to prevent material accumulation.

### OPTIONAL - QUICK KNIFE CHANGE

Fast replacement system via dedicated wrench, with two wear-resistant scrapers for disc cleaning. Also installable aftermarket.



### OPTIONAL - SAFE CUTTING SYSTEM

Protected transmission components, no wear, and fast replacement of pins. Protects discs from impacts with foreign objects, reducing costs and downtime.

# marangon

AGRICULTURAL MACHINERY

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