

RSM SPRING-LONGER

Verge Mowers



THE ART OF ROADSIDE MAINTENANCE!

RSM / SPRING-LONGER



KUHN Verge Mowers

Miles of peaceful mowing!

Complementing our professional range of hedge cutting machines, RSM and SPRING-LONGER verge mowers are designed to strict specifications that meet the needs of contractors and local authorities.

The models in the RSM range will be appreciated for their quality of work and compactness. Suitable for tractors from 48 kW (65 hp), RSM mowers are at ease in a wide variety of conditions (50-300 hours/year).

The models in the SPRING-LONGER range, on the strength of their quality "public works" type construction and high-performance components, ensure an outstanding result even with an annual workload exceeding 1500 hours!

Several machines can be combined with SPRING-LONGER front-mounted models.

Six reasons for choosing a KUHN Verge Mower:

- ▶ Easy-to-operate machines thanks to their movements (horizontal and vertical offset, front and rear-mounted versions, etc.).
- ▶ With eight models in the range - a cutting width of 1.60 to 2.30 m and weighing from 710 to 1425 kg - there is bound to be a machine suited to your needs.
- ▶ Maximum output cutting tools.
- ▶ A quality result suited to new mowing requirements (biodiversity management).
- ▶ Designs suited to all user profiles, from semi-professional to intensive use.
- ▶ The people and service surrounding the 60,000+ machines manufactured at the KUHN Group's factories every year

RSM

RSM 180

- Hitch: rear
- Working width: 1.80 m
- Gearbox: 82 hp at 540 min⁻¹
- Horizontal offset: 580 mm
- Vertical offset: 600 mm
- Weight: 710 kg

RSM 210

- Hitch: rear
- Working width: 2.10 m
- Gearbox: 82 hp at 540 min⁻¹
- Horizontal offset: 580 mm
- Vertical offset: 600 mm
- Weight: 810 kg



Cost
reductions



Good
Practices

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

SPRING-LONGER

SPRING-LONGER 1680 P (RP - RPF)

- Hitch: rear and front
- Working width: 1.60 m
- Gearbox: 120 hp at 1000 min⁻¹
- Horizontal offset: 900 mm
- Vertical offset: 600 mm
- Weight: 1285 kg

SPRING-LONGER 2080 RP (RPF)

- Hitch: rear and front
- Working width: 2.00 m
- Gearbox: 120 hp at 1000 min⁻¹
- Horizontal offset: 900 mm
- Vertical offset: 600 mm
- Weight: 1365 kg

SPRING-LONGER 2380 RP

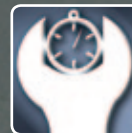
- Hitch: rear
- Working width: 2.30 m
- Gearbox: 120 hp at 1000 min⁻¹
- Horizontal offset: 900 mm
- Vertical offset: 600 mm
- Weight: 1425 kg



Comfort -
Quality of life



Proximity -
Advice



Peace of mind -
Services

Simplicity in a compact machine!



Quality of work and compactness are the two main characteristics of this new roadside mower.

Suitable for tractors from 48 kW (65 hp), the RSM is at ease in a wide variety of conditions.

The machine's leg-supported movements adapt to the ground contours to meet every requirement.

The models in the RSM range have been designed to meet local council needs for mowing work.



Attachment with hydraulic offset

The RSM can be fitted with a hitch frame incorporating horizontal offset by sliding. This concept reduces overhang and limits stress in the structure during offset manoeuvres.

With a 580 mm offset, obstacles can be quickly and easily avoided.

You can rely on us!

The structure of the chassis and leg are worthy of a KUHN design: in the event of a collision with an obstacle, the mechanical safety device will protect the machine structure.

- Design featuring reassembled components.
- Cell-type wear bushes fitted to all joints.



Vertical lift for versatility

Automatically compensates for uneven ground to complement the mower unit slewing ram.

The models in the RSM range can therefore mow on a higher plane than the road level.

The vertical lift function also makes it easier to mow shallow ditches while maintaining an optimum drive position.



Optimized mowing unit

Body geometry designed for maximum output. The casing is reinforced by a bolted sheet metal plate with Hardox® steel skids.

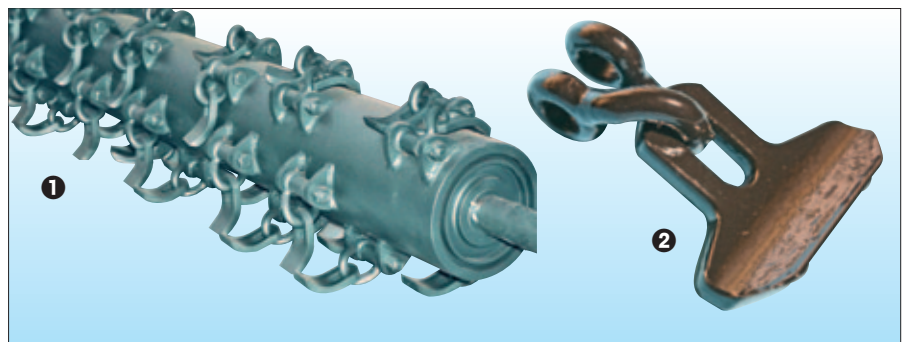
160 mm diameter roller with removable ends.



A rock-solid drive system

The drive system comprises four automatically tensioned, high-capacity V-belts.

The gearbox develops 82 hp at a PTO speed of 540 min⁻¹.



A choice of tools

The rotor can be equipped with two types of tool:

- ❶ Spoon flails for mowing in optimum conditions.
- ❷ Articulated hammer knives for mowing in tough conditions (irregular, rocky terrain, etc.).

SPRING-LONGER

An outstanding machine!

The SPRING-LONGER line offers a range of true professional roadside mowers, designed for high output sectors.

Available in rear or front mount, SPRING-LONGER is also a benchmark in terms of versatility with its capacity to mow a wide variety of verges.

With its 900 mm horizontal and optional vertical offset combined with its front/rear safety feature, plus a 100% effective mower unit, the profitability of your investment is ensured!



Front and rear safety!

To improve on-the-job flexibility and reduce mechanical stress, all SPRING-LONGER models are equipped with a double hydraulic safety function.

Due to the specific nature of the ram, the mower unit can retract rearwards in the event of a frontal collision ①, and also forwards if an unintentional reversing manoeuvre is made ②.

Resetting is automatic thanks to the three nitrogen ball accumulators fitted as standard on the machine ③.



Built-in reliability!

The uniform design features reassembled, non-tubular components and very high yield steel.

It ensures greater mechanical strength while reducing the weight of the structure.

All joints are mounted on cell-type bushes.

Structure: "public works" build



Mower unit: speed and quality of work

High mowing rates can be achieved due to the geometry of the mower head, developed without a "bottleneck", and its 120 hp gearbox ④. The rotor bearing is incorporated into the gearbox for improved protection.

Quality of work is assured by the high rotor speed of 2530 min⁻¹. The XTREM sensor roller is equipped with removable ends and a large-diameter tube (168 mm) ⑤.

To ensure long life, the head friction shoes are made of hardened steel whereas the casing is designed with double-thick steel plate. The rotor is equipped with wire protection baffles for improved protection of the half-bearing.

Four automatically tensioned cog-type V-belts drive the rotor ⑥. The speed is changed (540 or 1000 min⁻¹) simply by reversing the pulleys.



Horizontal pivot offset makes all the difference!

With the hydraulic pivot concept, a huge 900 mm horizontal offset can be reached. The mower unit can avoid obstacles easily and effectively.

The pivot also makes it possible to work behind part of the tractor wheel on narrow paths. The tractor-machine assembly is more compact, offering maximum safety to road users.

Vertical offset: an essential feature!

For maximum versatility, the RP models in the SPRING-LONGER range are equipped with a hydraulic lift function.

In "Flat mowing" and "Bank" modes, the lift ram automatically compensates for the humps and hollows along the verge. It therefore complements the mower unit slewing ram. The mower head lifts, lowers and tilts without any operator action.

In "Ditch" mode, the vertical offset function lifts the mower unit 600 mm. The universal joint works in a good position and with higher ground clearance. The -70° head angle therefore optimizes its full potential.

In "clearing" mode, mowing is possible on a plane situated above the road level.



SPECIFICATIONS	RSM		SPRING-LONGER					
	180	210	1680 P	1680 RP	2080 RP	2380 RP	1680 RPF	2080 RPF
Position of the mower unit	Side rear	Side rear	Side rear	Side rear	Side rear	Side rear	Front	Front
Vertical offset in m (A)	0.60	0.60	-	0.60	0.60	0.60	0.60	0.60
Ditch angle	-55°	-55°	-70°	-70°	-70°	-70°	-70°	-70°
Bank angle (B)	90°	90°	90°	90°	90°	90°	90°	90°
Transport height in m with 0.5 m ground clearance (C)	2.85	3.15	2.60	2.60	3.00	3.30	2.60	3.00
Horizontal offset (m)	0.58 (optional)	0.58 (optional)	0.90	0.90	0.90	0.90	0.90	0.90
Mower unit safety	Mechanical, rear		Hydraulic, independent, front and rear					
Weight/Power								
Weight (kg)	710	810	1280	1285	1365	1285	1365	1425
Min. tractor power (kW/hp)	48/65	55/75	59/80	59/80	59/80	59/80	59/80	59/80
Min. tractor weight (tonnes)			3.5	3.5	3.5	3.5	3.5	3.5
Hitch								
Semi-automatic hitch, cat. 2 or 3	-	-	■	■	■	■	■	■
STABI-LINK® frame	-	-	Optional	Optional	Optional	Optional	-	-
Drive								
Speed	540 min ⁻¹		540 or 1000 min ⁻¹ by reversing the pulleys					
Type	Four cog-type V-belts							
Controls								
Hydraulic equipment required	1 SA (+ 1 DA valve with optional hyd. offset)		1 SA + 1 DA valve	1 SA + 1 DA valve	1 SA + 1 DA valve	1 SA + 1 DA valve	1 SA + 1 DA valve	1 SA + 1 DA valve
Mower unit								
Working width (m)	1.80	2.10	1.60	1.60	2.00	1.60	2.00	2.30
Rotor speed (min ⁻¹)	2210	2210	2530	2530	2530	2530	2530	2530
Shackle diameter (mm)	12	12	14	14	14	14	14	14
Number of hammer flails	48	54	42	42	54	60	42	54
Number of articulated hammer knives	20	24	-	-	-	-	-	-
Rotor diameter (mm)	152	152	152	152	152	152	152	152
Sensor roller diameter (mm)	160	160	168	168	168	168	168	168
Sensor roller type	Removable ends		XTREM with removable ends					
Projection guards			Front and rear flaps					
Other equipment								
Bumpers and lighting/signalling	■	■	■	■	■	■	■	■
Hydraulic offset	Optional	Optional	■	■	■	■	■	■

Optional equipment may vary from one country to another

■ Standard equipment

- Not available

Examples of SPRING-LONGER equipment:



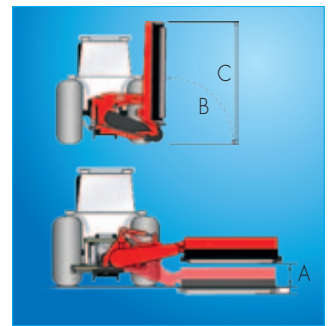
Front-mounted version for big jobs



STABI-LINK® quick-fit frame



Control with circuit selector
(standard equipment on RP models)



"In European Union countries, our machines comply with the "Machinery" directive; in other countries, they comply with local safety legislation. In our brochures, protective devices may have been removed for the purposes of illustrating certain details. In all cases, these devices must remain in place in accordance with the instruction manual. We reserve the right to make alterations to our models or their equipment and accessories without notice. Machines and equipment in this leaflet can be covered by at least one patent and/or registered model. Registered trademark(s)."

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