



KMS VINEYARD BARREL PRUNER (PRE-PRUNER)

B R O C H U R E



KMS Rinklin

KMS Rinklin is a German manufacturing company of high-quality vineyard and orchard machinery. Family-owned and operated since 1979, they have established a strong market share in the European and South African markets.

KMS Barrel Pruner (Pre-Pruner)

The KMS Barrel Pruner stands as a testament to innovation in viticultural machinery. It is meticulously engineered to automate and optimise the pruning process in vineyards, ensuring precise cuts and maximising vine health and productivity.

Bid farewell to the extensive labour hours required for hand pruning. Barrel pruning significantly reduces the time hand pruning crews spend in the vineyard. Experience the transformative power of cost-effective vineyard management with the KMS Barrel Pruner, and join the ranks of viticulturists who prioritise efficiency and profitability without sacrificing quality. Unlock substantial cost savings and elevate your vineyard to new heights of success with our cutting-edge technology.

KMS Rinklin Vario 400 Vineyard Pre-Pruners are available with cutting heads from 5 pairs of stars to 12 pairs of stars. Each cutting head is driven by a separate hydraulic motor. The robust knives, made of stainless cutlery steel, move in such a way that it is impossible to cut through the wires.

Available with a range of KMS mast options or adapter to fit other manufacturers masts and joysticks.

The Vario 400 is a top of the range robust machine suited to larger vineyard operations. The Vario 400 cutting head can be extended for varying methods of pruning and extensions can be customised to suit all canopy types/heights.

The KMS Pre-Pruner range is also available with a superior post detection system that works for all post types; wood, metal or plastic. With plant health in mind, KMS have developed their "Exact-Disc" as the bottom cutting knife which provides a cleaner cut and improves the plant healing process.

Base Features:

- Robust duplex tubular frame
- Central suspension of frame, Ø 22 mm
- Wear-resistant star cutters made of special steel
- Hydraulic cutter drive
- Drive overload protection
- Guard discs l./r.
- Transparent protective screen
- Hydraulic opening and closing of cutters by manual trigger
- Damping and overload protection for opening and closing by diaphragm accumulator
- Storage trolley

Optional Features:

- A range of low maintenance KMS heavy duty masts – fixed or tilting
- Able to be ordered with an adapter to suit other manufacturers masts
- Tractor brackets for a full range of manufacturers
- Automatic post detector, for all types of post
- Cutter head extensions

Model	Number of cutters	Oil Req.	Cutting Length (Std)	Length w/Extension
Vario 400/5	5 Pairs	22 l/min	245mm	> 835mm
Vario 400/6	6 Pairs	22 l/min	300mm	> 920mm
Vario 400/7	7 Pairs	22 l/min	353mm	> 1080mm
Vario 400/8	8 Pairs	22 l/min	610mm	> 1337mm
Vario 400/10	10 Pairs	22 l/min	690mm	> 1417mm
Vario 400/12	12 Pairs	22 l/min	765mm	> 1492mm

01 TRACTOR BRACKETS

Options available for tractor-specific or universal mounts.

02 HEADSTOCK

Parallel cross member linkage options available.
Can be adapted to other manufacturers' masts.



03 MAST

Heavy duty 100mm x 100mm mast with a long extension option. Mast comes with low wearing bushings greatly reducing maintenance.

Hydraulic width adjustment options available.

Heavy duty mast handles any kind of rough terrain, allowing smooth inputs and movement season after season.

04 JOYSTICK AND CONTROLS

Comfortable and easy to use joystick with intuitive controls makes operating the barrel pruner simple and smooth.

The open and close timing can be easily adjusted on the fly using the dials on the in-cab mounted control box, allowing for fine-tuning of ground speed and how close to the posts the pruning is.

05 BARREL PRUNER UNIT

5, 6, 7, 8, 10, and 12 blade options are available to suit all different wire heights and trellis set-ups.

Blades are made of strong pressed steel making them very resistant to bending and require no sharpening.

Clear plastic screen designed to keep debris away from the tractor, reducing the amount of build-up collected on the tractor. This keeps airflow into the cooling system high and dust and debris build up in front of the cooling system low, resulting in less downtime to let the tractor cool down.





06

POST DETECTION

Automatic post-detection system reduces the workload of the operator, increasing productivity.

This system allows new operators to get trained up to speed on the machine quicker than traditional systems.

The system tunability allows closer pruning in front of and behind the post, without the risk of closing the blades onto the post.

The automatic opening system reduces damage to the trellis compared to manual open/close barrel pruners.

When machine passes through post, the post moves the arms, triggering an electronic sensor. The timing of the open/close sequence can be adjusted on the fly, allowing fine tuning of how close the pruning gets to each post.



07

BLADES

Special stainless cutlery steel for extra strength.

The "Exact-Disc" knives at the bottom, like scissor type blades, leave a clean cut as though they were cut with secateurs, allowing canes to heal nicely.

Blade Spacing: Blades are placed closer together allowing for tendrils that have grown onto the wires to be cut, leaving minimal debris or plant material on the wires.

08

HYDRAULICS

A low flow is required allowing use on a wider range of tractors. Only 25L/Min.

Hydraulic flow can be prioritised to allow for trimming thicker canes or working at a higher ground speed.

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STORAGE TROLLEYS

Storage trolleys come standard, with manual or hydraulic height adjustment options depending on customer's operation.

Implement-only options where the mast can stay on the tractor and be utilised for multiple products from the KMS range.

09

MACHINE OPTIONS

Can option the barrel pruner without post-detection.

Can option the barrel pruner with adapter to suit other manufacturers' masts, in place of the KMS mast.



Scan to view the
KMS Vario 400/7
in action