



PROVITIS

- Trunk cleaner
SRB 22
- Tying machine
PA 5000
- Trimmer
ST 120
- Leaf remover
LR 350
- Pre-pruning machine
MP 122
- Multi purpose
carrying frames

Range

Optima



Versatility for vineyard tractors

The vine... our passion

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Trunck cleaner SRB 22

Principle

- High clearance frame equipped with two cleaning heads, each of them made up of a stack of rings on which special, semi-rigid straps are inserted. These heads, driven by two hydraulic motors connected in series, efficiently clean up the vine stock.
- Adjustable guides.
- Distance between the heads can be adjusted.
- Working speed about 3 km/h
- Oil flow required 20 l/Min.



Strong points

- Independent furling safety to the side and to the back. The semi-rigid straps clean up efficiently without damaging the vine stock.
- The two bottom rings are equipped with three straps instead of two for a higher frequency of strokes at the base of the vine stock where most of the suckers are to be found.



Models for use on vineyard tractor

Models	Cleaning height	Options
● SRB 22-200	198 mm	Hydraulic setting of the cleaning heads
● SRB 22-250	264 mm	
● SRB 22-300	297 mm	Hydraulic setting of outer head height
● SRB 22-350	363 mm	
● SRB 22-400	396 mm	
● SRB 22-500	495 mm	
● SRB 22-600	594 mm	



Tying machine PA 5000

Principle

- High clearance frame equipped with a system for lifting the branches and of a tier. The branches are lifted by two wide belts driven in rotation and equipped with independent safety systems. At the back of these belts and on each side of the row, a cord is spooled out for holding the branches in vertical position. These two cords are then tied.
- Hydraulic unit for handling the machine setting functions (tier, belt rotation speed, etc.).
- Cord reel can accommodate four spools.
- Tier with storage capacity of 1000 to 5000 ties.
- Wire stop in option.



Strong points

- The rough belts provide an optimum lifting of the branches without force or aggressiveness. They are also fully adjustable (toe-in angle, angle and separation).
- The clip tier offers several advantages. A significant autonomy (up to 5000 ties) with reduced dimensions. Easy to maintain and operate. The ties are formed with two clips and not with an anvil: the choice of this technology prevents shocks and fouling.
- Weight less than 150 kg
- Independent furling safety, single unit on each of the belts.

Trimmer ST 120

Principle

- Adjustable cutting bars with rotary blades of 430 mm rotating at a speed in the range of 2000 rpm.
- Driven by hydraulic motors connected in series with transmission by special flat belts.



Strong points

- The blades are oriented at an angle of 5° towards the vegetation for preventing repeat cutting and projection backwards.
- Oil flow 16 L/Min.
- Flat transmission belts without tensioner, maintenance-free.
- Quick access to wear parts (international patent).
- Furling safety with automatic return on vertical cutting bars.
- Stainless steel sheet metal parts and aluminium components.

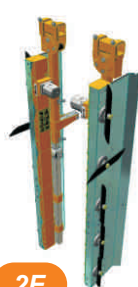


Models for use on vineyard tractor



- Cutting bar with motors and flexible hoses
- Manual adjustment of the horizontal cutting angle
- Support for resting

DR



- Cutting bar with motors and flexible hoses
- Manual adjustment of vertical cutting angle
- Safety device on the vertical cutting bars
- Support for resting

2F



- Cutting bar with motors and flexible hoses
- Manual adjustment of vertical and horizontal cutting angles
- Safety device on the vertical cutting bars
- Manual adjustment of horizontal cutting (allows modifying the trimming height).
- Support for resting

2DR



- Cutting bar with motors and flexible hoses
- Manual adjustment of trimming angle and width
- Safety device on the outer vertical cutting bar
- Support for resting

RC



- Cutting bar with motors and flexible hoses
- Manual adjustment of vertical cutting angle
- Safety device on the outer vertical cutting bars
- Support for resting

2RC

Choice of cutting heights

3 blades - 109 and 123 cm
4 blades - 142, 156, and 163 cm.
5 blades - 175 cm

Trimmer ST 120

Options

Options DR



Manual adjustment of the horizontal cut
Also available in hydraulic version



Furling of the horizontal cutting bar to the back



Hydraulic pivoting of the horizontal bar towards the top

Options 2DR



Hydraulic adjustment of the horizontal cut



Furling of the horizontal cutting bar to the back

Option 2RC

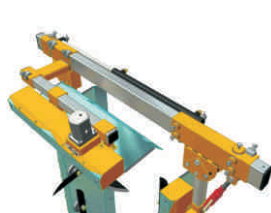


Manual adjustment of the horizontal cut. Also available in hydraulic version

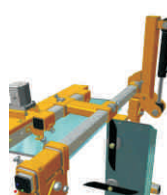
Options RC



Manual adjustment of the horizontal cut. Also available in hydraulic version



Hydraulic adjustment of the trimming width



Hydraulic pivoting of the outer vertical cutting bar towards back



Hydraulic lateral pivoting of the outer vertical cut



Hydraulic adjustment of the trimming height on outer vertical cut

Pre-pruning machine MP 122

Principle

- Frame with two disc modules equipped with blades cutting through shearing movement.
- Discs driven by two hydraulic motors. Centralisation of all pre-pruning functions in a drilled block.
- Manipulator for opening closing of modules.
- Rotation of discs at a speed of 260 rpm.
- Two versions available (short and long frame) with stacks of 6 to 28 discs and gap of 60 or 90 mm.
- Working speed up to 10 km/h.
- Required oil flow 28 l/Min.

EXCLUSIVE FEATURE

The lower disc is ground for a quality of cutting comparable to pruning scissors



- A circular disc with ground edge on one of the modules facing a toothed disc of the other modules provides a clean cut with splitting of the stems.
- The cutting effect of the disc prevents the pinching of wood, a common phenomenon in shearing cuts.
- A particular configuration of this equipment ensures the respect of environment (stakes and tying cords).

Customers already owning a MP 122 pre-pruning machine can fit ground discs on it without modifications to their machine.



Strong points

- The shape of the disc ensures a good grip on the vine shoots and a regular feeding of the machine, without damaging the tying cords.
- Centralisations of functions in a drilled block.
- Little maintenance.
- Reduced sprays because of low rotational speeds.
- Low weight.
- Requires limited oil flow.
- Bottom part of the discs totally flat, preventing the buds on the trailers from ripping off.
- The spacing of 60 mm. between the discs favours the cleaning of the upper tying cord



Models for use on vineyard tractors

	Cutting interval	Model	Height of cut	Number of discs	Weight
SHORT FRAME 8 to 20 discs Cutting intervals 60 or 90 mm. at choice	60 mm.	MP 122-14C-60	365 mm.	14	180 kgs
		MP 122-20C-60	545 mm.	20	200 kgs
	90 mm.	MP 122-6C-90	185 mm.	6	145 kgs
		MP 122-8C-90	275 mm.	8	155 kgs
		MP 122-10C-90	365 mm.	10	165 kgs
		MP 122-14C-90	545 mm.	14	180 kgs
LONG FRAME 14 to 24 discs Cutting intervals 60 or 90 mm. at choice	60 mm.	MP 122-18L-60	485 mm.	18	220 kgs
		MP 122-24L-60	605 mm.	24	240 kgs
		MP 122-28L-60	785 mm.	28	260 kgs
	90 mm.	MP 122-14L-90	545 mm.	14	205 kg
		MP 122-18L-90	725 mm.	18	220 kgs
		MP 122-24L-90	995 mm.	24	240 kgs
		MP 122-28L-90	1175 mm.	28	270 kgs

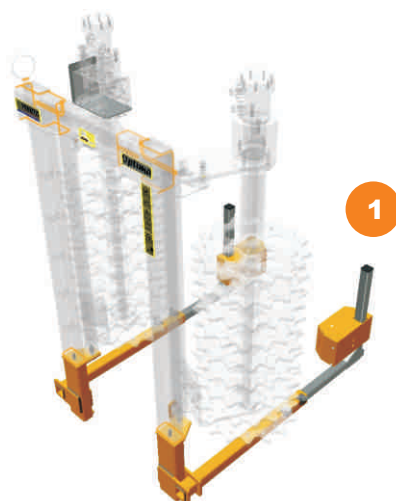
Options

Automatic opening

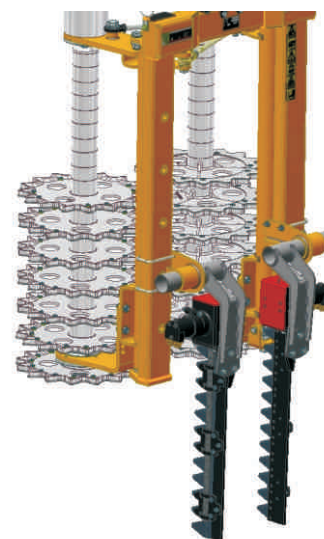


The pre-pruner MP 122 can be optionally equipped with an automatic opening on passage of pickets with detection by infrared scanning or inductive sensors. These two systems each have their specific characteristics.

- **(1) Optical detection** works on all types of pickets (wood, steel, concrete) but **there should be no leaves**. It is also necessary that the pickets should be :
 - Without perforations in the scanning axis ;
 - of a cross-section greater than or equal to 25 mm
- **(2) The detection by inductive sensor** is possible only with steel pickets but on the other hand, **pre-pruning can be carried out immediately after the grape harvests even with the leaves remaining**.



Lateral cuts



Pair of lateral cuts allows cutting the sides of vines in cordon. They are delivered with a manual setting of the cutting angles and width. Connected in series with the pre-pruning head, they do not require additional oil flow.

Leaf remover LR 350

Principle

- Drum with openings in which a suction outlet with a turbine is installed. The depressurisation caused by the turbine forces the leaves to get stuck on the drum that is driven in rotation. The leaves are then taken to a roller placed against the drum. Gripped between the roller and the drum, the leaves are torn off. Beyond the roller and the suction zone, the leaves fall on the ground.
- The leaf stripping head is mounted on a parallelogram chassis ensuring that the plane of vegetation is followed.
- The turbines and the roller are driven by hydraulic motors.
- The hydraulic settings and functions of the machine are handled by a drilled block.
- The leaf stripper LR 350 may be adapted to any type of carrier, vineyard tractor, high clearance tractor or even grape harvesting machine.

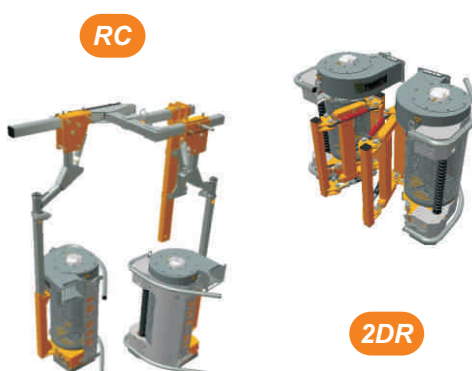


Strong points

- The entire leaves torn off do not pass into the turbine and therefore, they are not crushed and sprayed into the neighbouring rows.
- Since the work plane is followed thanks to the parallelogram, the leaf stripping is uniform and without force on the tying or the grapes.
- Simple machine of reduced weight and dimensions, requiring very little maintenance.



Models for use on vineyard tractors



Options DR

Système de retournement



Multi-purpose machines supports for vineyard tractors

Machine support SMP 15

- Single beam structure with up and down move jack, stroke 800 mm, equipped with a safety valve
- Quick coupling with welded plate for front-end mounting on vineyard tractor, bracing bars with tie rods (mounting between wheels possible)
- Choice between three types of hydraulic translation sleeve : ① machine attachment from the side ② machine attachment from the top ③ returning system for the leaf remover



Change the machine easily without wrenches
through semi-automatic coupling



Translation sleeve Side attachment

- ① Stroke 300 mm., hydraulic inclination +/- 20° with standard or semi automatic attachment.



Machines

- Trimmers DR - RC
- Pre pruner
- Leaf remover DR
- Trunk cleaner
- Tying machine

Translation sleeve Top attachment

- ② Stroke 500 mm., hydraulic inclination +/- 20° with standard attachment only.



Machines

- Trimmer RC
- Pre pruner
- Tying machine

Returning system

- ③ Hydraulic returning system with hydraulic translation sleeve stroke 300 mm.



Machine

- leaf remover DR

Machines adaptable on the SMP 15 machine support



Support de machine SMP 30 S



Change the machine easily without wrenches
through semi-automatic coupling



Machines adaptable on the SMP 30 S machine support



- Single beam structure in non-deformable caisson with up and down move jack, stroke 700 mm, equipped with a safety valve.
- Hydraulic inclination on the bottom of the support and on the attachment of the machines +/- 20°
- Quick coupling with welded plate for front-end mounting on vineyard tractor.

Multi-purpose machines supports for vineyard tractors

Machine support SMP 30 PARALLELOGRAM

- Single beam structure in non-deformable caisson with up and down move jack, stroke 700 mm, equipped with a safety valve.
- Hydraulic offset 1370 mm by jacks with automatic bleed.
- Inclination $\pm 20^\circ$, quick coupling with welded plate for front-end mounting on vineyard tractor.

change the machine easily
without wrenches
through semi-automatic
coupling



Machines adaptable on the SMP 30 machine support



By actuating a single control, the machine can be offset without modification of its seat. The extent of this amplitude allows :

- shifting the centre of gravity towards the tractor, for optimum security;
- positioning the machine as an extension of the tractor, for limiting the dimensions.

Machine support SMP 50

- Double beam structure with up and down move jack, stroke 700 mm, equipped with a safety valve
- Front attachment, quick coupling with welded plate for front-end mounting on vineyard tractor, bracing bars with tie rods.
- Choice between 4 types of hydraulic translation sleeve ① machine attachment from the side, ② simultaneous hydraulic opening for trimmers ③ simultaneous hydraulic opening for leaf remover (une tête) ④ returning system for the leaf remover



Translation sleeve Side attachment

- ① Stroke 300 mm., hydraulic inclination $\pm 20^\circ$ with standard or semi automatic attachment.



Machines

- Trimmers DR - RC
- Pre pruner
- Leafremover DR
- Trunk cleaner
- Tying machine

Simultaneous opening for trimmers

- ② Simultaneous hydraulic opening 1000 ou 1400 mm.



Machines

- Trimmers 2F - 2DR - 2RC

Simultaneous opening for leaf remover 2DR

- ③ Simultaneous hydraulic opening 1000 and inclination $\pm 20^\circ$ indépendant



Machines

- Leaf remover 2DR

Returning system

- ④ Hydraulic returning system with hydraulic translation sleeve stroke 300 mm.



Machines

- Leaf remover DR

Accessories

Machines adaptable on the SMP 50 machine support



IMPORTANT: by equipping yourself with all the variants, you can adapt all the models of PROVITIS machines.

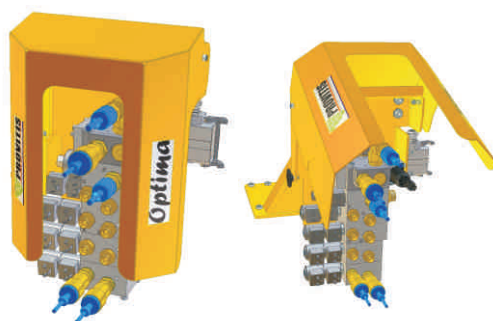


Accessories

Power station HPS 60



Electrical controls



- Oil output 62 l/min., multiplier group 3, reserve 110 litres, power 25 HP, gear pump 33 cm³
- Pressure limiter
- Return filter clogging indicator
- Hydraulic exchanger with temperature control by electrical contact
- Mounting on three tractor points, with universal joint.

- Maximum oil flow 35 litres
- Machine flow adjustable and has priority
- Adaptations supplied for Provitis SMP 10 - 30 - 50 machine supports with closing cap
- Connection of flexible hoses in front panel with push-pull fittings for multi-purpose use
- Can be delivered in standard version with arm rest ❶ or on demand with an ergonomic handle on box ❷.

You can find all our products, videos
and news at our Internet site



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