



PROVITIS

optima
LINE

EQUIPMENT FOR
NARROW-SPACED
VINEYARDS



provitis.eu



THE VINE, OUR SOURCE OF INSPIRATION



THE VINE, OUR SOURCE OF INSPIRATION

- › Located in Alsace since 2006, we are specialized in the design of viticultural machines, and more specifically vine pruning and caring equipment to be mounted on vineyard tractors, straddle tractors and grape harvesters.
- › Our engineering department takes care of the design, entrusts the production of parts to rigorously selected suppliers, and supervises the assembly by experienced staff. We have chosen this production method to offer you products designed and manufactured using the latest technologies, at the best value for money.
- › Innovation, constant improvement of our machines, a presence in wine-growing areas all over the world through a network of hand-picked dealers - these are the features that make up our DNA and the basis of our inspiration.





RESEARCH AND DEVELOPMENT

A team of experts is at your service, constantly seeking new solutions to meet your expectations..



MANUFACTURING

Handpicked suppliers and versatile collaborators for high-end manufacturing quality.



TEST

The testing phases where rigor is required, everything must be on point.



START-UP

Oiling and final preparations.



SHIPPING

Packed, ready for shipping, it's almost at your home!

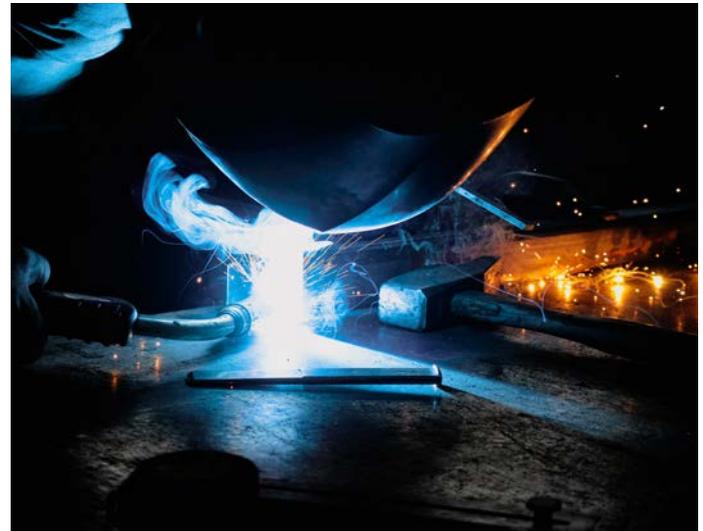


AFTER-SALES SERVICE

An extensive parts stock, a team of experts in our premises and in technical assistance - all the ingredients are in place to provide you with the best possible after-sales service

INNOVATION AND CONCEPTION

› Research, development, manufacturing, testing, commissioning and shipping are part of the complete process to guarantee maximum quality and performance.



OUR EXPERTS

› Research and development, manufacturing, administrative management, sales, communication - all our employees are passionate and perfectly familiar with their professions, for the full satisfaction of our customers in France and abroad.

optima

LINE

THE RANGE FOR NARROW VINEYARDS

- › For narrow vineyards, provitis products are grouped in a single range.
- › In the Optima range for narrow vineyards the carrying frames are versatile (coupling of several machines on the same frame). This range is particularly suitable for small and medium-sized farms that perform several jobs with the same tractor..



SUPPORT POLYVALENT SMP 600

- › Double frame composed of two sets of two folded sheets between which are housed two independent cylinders for the up/ down and the tilt.
- › Single acting cylinders with 600 mm. stroke without tipping, 400 mm. stroke with tipping at the end of stroke.
- › Quick coupling with welding plate for front mounting on straddle tractor.



SUPPORT POLYVALENT SMP 1400

- › Double frame composed of two sets of two folded sheets between which are housed two independent cylinders for up/ down and tilt.
- › Single-acting cylinders stroke 1400 mm. without tilting.
- › Semi-automatic attachment.
- › Welding plate for front mounting on straddle tractor.



SUPPORT POLYVALENT SMP 20

- › Versatile chassis and carrying frame.
- › Modular mass holder to distribute the masses to the left and right or on one side, in the case of unilateral assembly such as the pre-pruner for example.
- › Single mast with hydraulic up/down (500 mm) and tilt (+/- 17°). The cylinders are equipped with safety valves.
- › Quick coupling device for tools.
- › Removal bracket for unhooking without means of handling (option).



TAYING MACHINE

PA 5000

PRINCIPLE

› High-clearance frame equipped with a vine branches lifting device and a clip tying device. The branches are lifted by two wide belts driven by adjustable-speed hydraulic motors and equipped with independent safety devices. A wire is unwound at the rear of these belts, on either side of the row, to hold the branches in vertical position. These two wires are then clipped.



ADVANTAGES

- › The rough belts allow optimum lifting of the branches, without constraint or aggressiveness. They also feature comprehensive setting possibilities (tracking, angle and spreading)
- › The clip tying device requires little maintenance and setting. The clips are formed by two claws: this technology that prevents shocks and clogging.
- › High autonomy (5,000 clips)
- › Weight 180 kg
- › Independent safety on each of the belts.



SAFETY RETRACTION

- › In the case of a shock, the lifting belts retract upwards and downwards.



PENDULAR FRAME

- › The frame of the PA 5000 tying machine includes a pendular system with a shock absorber, which can be blocked for road transport.

PAIR OF TIPS (OPTION)

- › This option prevents the belts from being damaged by rubbing on the ground.

Before



After



TRIMMER ST 120

PRINCIPLE

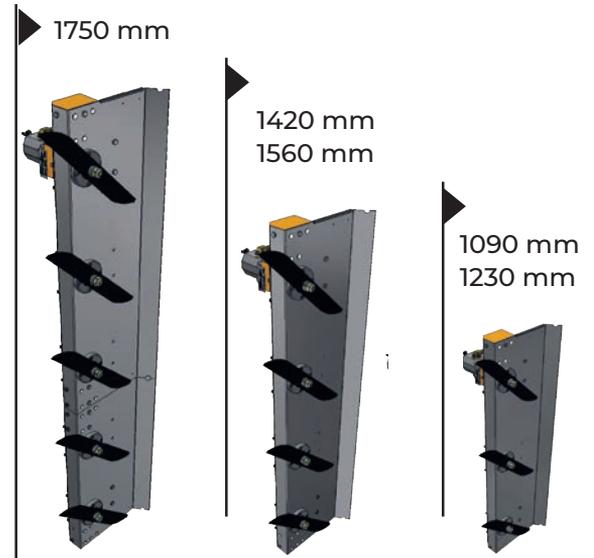
- › Modular cutting bars with 430 mm rotary blades with a rotational speed of the order of 2,000 RPM.
- › Drive by serially connected hydraulic motors with transmission by special flat belts without tensioners.



ADVANTAGES

- › Blades inclined towards the vegetation to prevent repeated cutting and backward projections
- › Maintenance-free flat transmission belts without tensioner
- › Quick access to wear parts (international patent)
- › Safety retraction with automatic return motion on most of the vertical cutting bars
- › Stainless steel sheet metal parts and aluminum components

WORKING HEIGHT SELECTION



INCLINED BLADES

- › The blade inclination towards the vegetation prevents repeated cutting and backward projections.

MAINTENANCE-FREE CUTTING BAR

- › The flat belt drive using crowned pulleys requires neither maintenance nor tension check.

VERTICAL SAFETY

- › In the case of a shock, the vertical cutting bars are equipped with a safety system with automatic return motion.

AVAILABLE MODELS

- › Two complete rows
- › Two complete rows and two half rows



LEAF STRIPPER

LR 350

PRINCIPLE

- › Perforated drum, housing an intake mouth with a turbine at its end. The depression generated by the turbine sucks the leaves against the rotating drum. The (entire) leaves are gripped and stripped by a roller and fall on the ground along the vine row.
- › Working height 480 mm / 300 mm
- › The stripping head is available with a parallelogram frame that allows following the vegetation plane or, optionally, with a hydromechanical vegetation following device (A'Syst option).
- › The head rests on two guides on the top and on the bottom of the fruit bearing area or on the sensor if the machine is equipped with the A'Syst option
- › The turbine and the roller are driven by serially connected hydraulic motors. The flow rate is 22 to 60 l/min.



ADVANTAGES

- › The stripped entire leaves do not pass into the turbine and therefore, they are not crushed and sprayed on the neighboring rows.
- › The parallelogram follows the work plane, ensuring a constant leaf stripping.
- › Simple lightweight machine with reduced dimensions.
- › Quick cleaning.



A'SYST

- › The assisted follow-up device allows the LR350 leaf stripper to follow the vegetation plane automatically and without operator intervention.
- › It operates hydraulically, without ESP sensor and without electronic board. A'Syst distinguishes itself by its technological choice and ensures:
 - › A great flexibility of use
 - › An exceptional efficiency



AVAILABLE MODELS

- › One half row
- › Two half rows
- › One complete row
- › Two complete rows
- › Three half rows



LEAF REMOVER

LB 260

LE PRINCIPE

› A blower generates air with a pressure of 0.6 to 1 bar, which is supplied to the stripping heads equipped with rotating nozzles. The air expelled through the nozzles shreds the leaves under the pressure. The height varies from 400 mm to 640 mm.



ADVANTAGES

- › The pneumatic leaf remover ensures thorough stripping and contributes to the reduction of botrytis. It also allows a better distribution of the plant and grape production products and removes the flowerhoods.
- › Used the day before or even the day of the harvest, the pneumatic leaf stripper greatly reduces hand harvesting time.
- › The stripping heads are equipped with two rotors - each with a nozzle - driven in rotation. The rotors work behind each other, reproducing a hammer stroke effect for a more efficient shredding of the leaves.



STANDARD EQUIPMENT

- › Frame with hydraulic spreading between rows.
- › Four orientable two-rotor stripping heads. Working height from 400 to 650 mm.
- › Safety retraction on every head.
- › Feeder pipe with air supply by rotary joint, hydraulic hoses and couplers.
- › To be fastened on the rear plate, NX 8 blower driven by a piston motor (pneumatic and hydraulic hoses supplied).



CYCLONIC FILTER

- › Double filtration with a cyclonic prefilter that removes up to 98% of the impurities before entering the air filter. Thanks to its self-cleaning system, the prefilter remains clean.



AVAILABLE MODELS

- › One complete row
- › Two complete rows



PRE-PRUNER

MIP 122

PRINCIPLE

- › A frame with two disc modules equipped with blades performing a shear cut. The discs are driven by 2 hydraulic motors. All pre-pruner functions are centralized in a hydraulic block.
- › Cutting modules opening and closing is controlled by a control switch.
- › Working speed up to 10 km/h.
- › Available with a stack of 6 to 24 disks with an interval of 60 or 90 mm.



ADVANTAGES

- › The shape of the disc ensures a good grip on the vine shoots and a regular feeding of the machine, without damaging the tying wires.
- › The 60 mm interval between the disks furthers the cleaning of the tying wires thanks to the cutting sections mounted on a carrier disk whose thickness prevents the wire from penetrating between the teeth of the cutting sections.
- › Reduced maintenance, lightweight and low flow rate.
- › Reduced projections thanks to a low rotational speed.
- › The bottom section of the discs is totally flat, preventing any stripping of the spurs.
- › Working speed up to 10 km/h.



AUTOMATIC OPENING (OPTION)

- › The optical detection operates for any type of post (wood, steel, concrete). There must be no leaves left. The system requires posts without holes in the reading axis and with a cross-section larger than or equal to 25mm.
- › The inductive detection only operates with steel posts. But it allows pre-pruning immediately after the harvest, even if there are leaves.



SHARP DISK

- › A circular disk with a sharp edge on one of the cutting modules, facing a toothed disk on the other module, ensures a clean sharp cut, without cracking of the wood. The cutting effect of the disk avoids pinching the wood, which is a common phenomenon in shear cutting. A specific configuration of this equipment ensures the respect of the environment (posts and tying wires).



VINE SHOOT EXTRACTOR

VSE 430

PRINCIPLE

› While the VSE 430 vine shoot extractor works on all types of Guyot pruning, its performance is at its best on flat-tied Guyot, without any increase in preparatory pruning time. Its frame is equipped with a feeding disk and extraction wheels. Located in front of the wheels, the feeding disk pushes the vine shoots towards the wheels; a toothed chain grips the shoots and places them between the wheels, which complete their extraction towards the side. Once free from the tying wires, the shoots fall in the center of the row. A shredder can be mounted on the rear of the tractor to shred the shoots as they are extracted.



ADVANTAGES

- › The extraction of the vine shoots from the side reproduces the manual operation.
- › Remote and grouped greasing.
- › Operates for any type of posts and tying wires.
- › Working speed



STANDARD EQUIPMENT

- › Frame with feeding disk and extraction wheels.
- › Opening of the feeding disk with a cylinder.
- › Extraction wheels rotation reversing function.
- › Opening of the extraction wheels in case of jamming.
- › Hydraulic functions centralized in a hydraulic block.
- › Protective cover with adjusting flap to optimize the shoot ejection.
- › Control box or connection on Provitis electro-hydraulic valves block.
- › Storing rest.



MODÈLES DISPONIBLES

- › One complete row



SHREDDER WITH PICK-UP

SP 50

PRINCIPLE

- › The vine shoots are collected by a pick-up with removable teeth and conveyed in a shredding chamber equipped with a rotor with notched hammers and counter-hammers.
- › Once shredded, the shoots are ejected through a refining grid.



ADVANTAGES

- › The teeth of the pick-up have a specific shape that improves the grip of the shoots and ensure a regular feeding of the shredding chamber.
- › Interchangeable pick-up teeth.
- › Possibility to operate the pick-up in the opposite direction (jam removal).
- › A high rotor speed (3,000 RPM) and a counter-hammer ensure an exceptionally high performance and an optimum shredding fineness, even in extreme operating conditions (humidity, high shoot density).
- › Quick coupling.



STANDARD EQUIPMENT

- › Rotor equipped with eight notched hammers
- › Counter-hammer
- › Centralized greasing
- › Pick-up with interchangeable teeth
- › Box equipped with the coupling for CNH side tool holder



OPTIONS

- › Collecting tines underneath the pick-up
- › Counter-hammer
- › Inlet 600 mm / 700 mm / 800 mm
- › Refining grid 15 mm / 25 mm / 35 mm / 50 mm
- › Rakes





ZI - 9 rue des frères Peugeot
68127 SAINTE CROIX EN PLAINE
+(33) 389 209 349 provitis@provitis.eu



provitis.eu

