

CLEMENS

Foliage management



- LEAF REMOVER
- PRE PRUNER
- SHOOT BINDER
- TRIMMER
- ATLAS
- KOBOLD
- FLEXITREE
- C-DRIVE

LEAF REMOVER

LEAF REMOVER

Simple structure
Robust
Easy cleaning

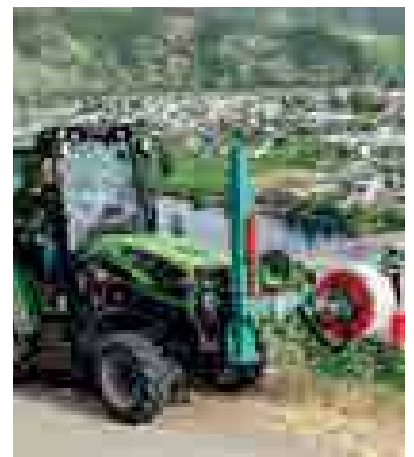


LEAF REMOVER

The leaf remover is used for mechanical defoliation of the grape zone and can be used from flowering until shortly before harvest.

The leaves are sucked in by a suction roller and plucked off by a roller rotating in the opposite direction. The leaves are blown forward into the vine row by a fan. A very strong suction power due to the efficient fan wheel, makes it possible to carry out the defoliation gently and effectively even with little pressure on the canopy.

The leaf remover can be optionally configured with a front trimming knife. It can be mounted to a rotating device 240° with integrated lift pole of 800 mm (31.5") lift height.





LEAF REMOVER



Special features:

Easy cleaning by swinging out the fan wheel

Easy replacement of the rubber segments on the disk roller

Individual blades on the fan wheel can be replaced

TECHNICAL DATA

Weight: approx. 85 kg (187 lb.)

Distributors: 1x s.a. with pressure-free return

Oil requirement: approx. 15-24 l/min (4-6.3 gal/min)

PRE-PRUNER

PRE-PRUNER

Variable
Fast reaction Wear-
resistant



PRE-PRUNER

The pre-pruner is used to remove the one-year-old wood and can be used in cordon systems as well as for spur training. The cutting head is equipped with a different number of cutting pairs depending on the conditions. The distance between the knives is 100 mm (4"). This dimension can be reduced to half or increased by using different spacers.

The special hydraulic system of the pre-pruner allows a very precise work. Due to the quick opening and closing of the basket, hardly any shoots remain around the post. The maintenance-free pressure accumulator guarantees a continuous perfect reaction even after several working sessions.





PRE-PRUNER



Special features:

Easy cleaning possible by swinging out the fan wheel

Easy replacement of the rubber segments on the disc roller

Replacement of individual blades on the fan wheel is possible

TECHNICAL DATA

Weight: approx. 190 kg (419 lb.)

Distributors: 1x s.a. with pressure-free return

Oil requirement: approx. 30 l/min (8 gal/min)

SHOOT BINDER

SHOOT BINDER

Simple
Precise
Fast



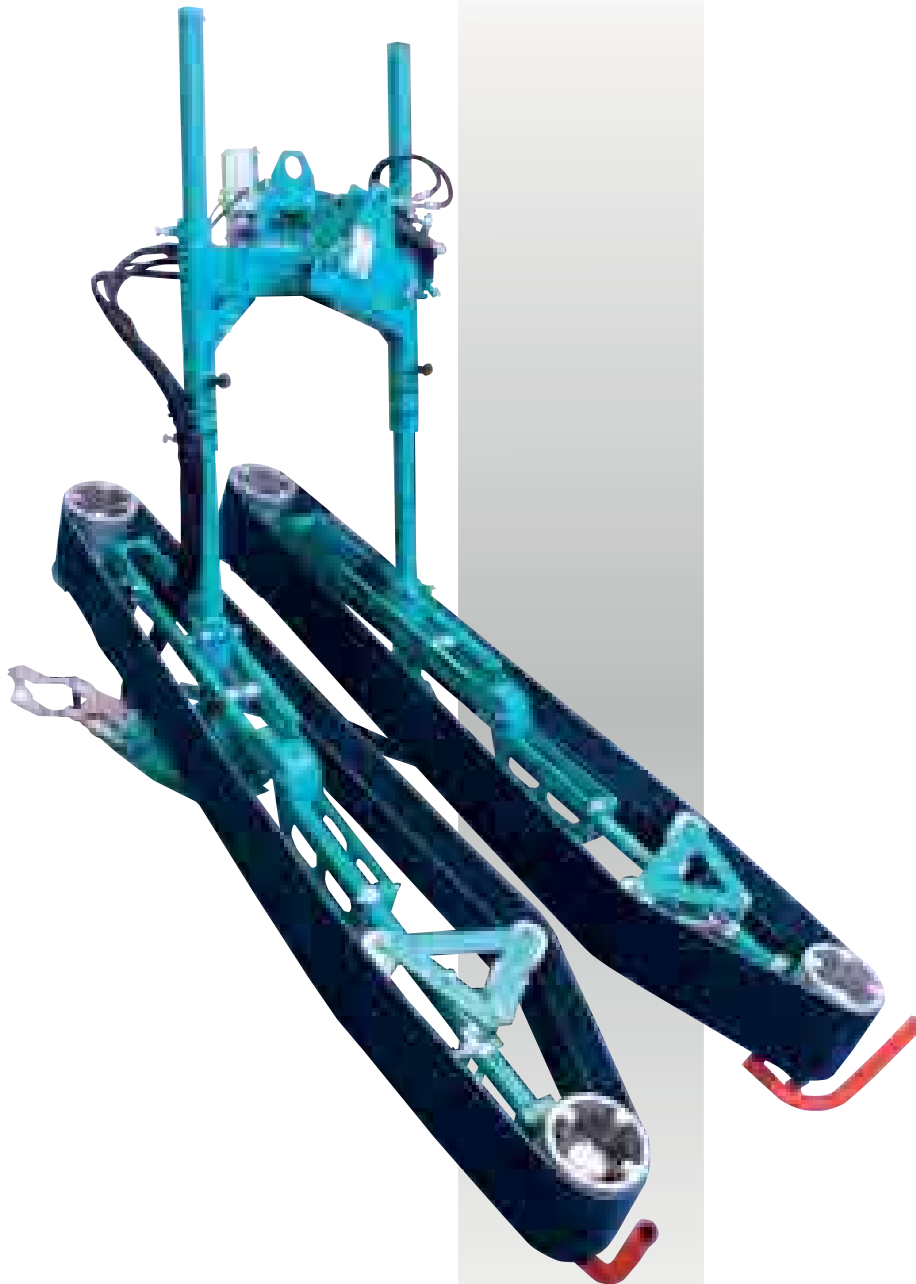
EASYFIX

A winemaker's development for wine-makers

ersatile: a machine that was also developed for the use of biodegradable yarn and operation on various machines (tractors, light-weight caterpillars...)

The decomposition of the biodegradable clips under sun exposure during fall enables the mechanical removal of the yarn with a rewinder, which saves a lot of time.





SHOOT BINDER



Special features:

lightweight: the shoot-binder only weighs approx. 160 kg

adaptable: to all kinds of vineyards

easy: to use, maintain and adjust!

eco-friendly: concept with biodegradable clips

gentle: gently raises the tendrils, high-powered

raising of foliage without hurting the vines.

TECHNICAL DATA

Weight (kg): about 160

Working speed (km/h): +/- 5

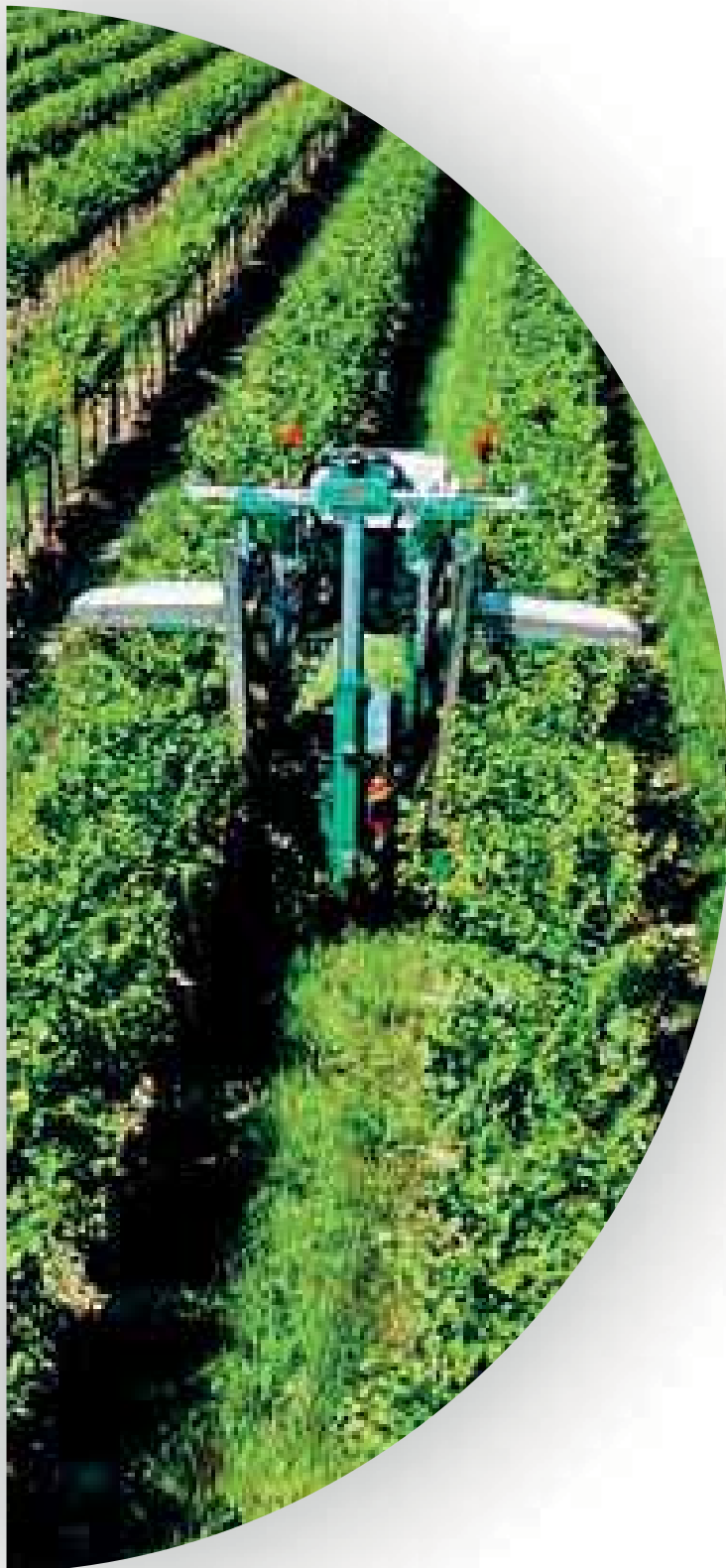
magazine capacity for clips (pieces): 300

Hydraulics: 1x single-acting with at least 12 liters and pressureless return
+ 1 double-acting for the lift mast

TRIMMER

TRIMMER

Variable
Robust
Collision
protection



TRIMMER

The particularly robust yet lightweight trimmer enables you to work on slopes as well as on large flat surfaces. A fully modular design leaves almost nothing to be desired. The cutter bars can be individually adapted to the respective requirements in their contours such as cutting angle, height and width or cutting pattern. The special sickle knives and splash guards on all knife carriers ensure a particularly clean cut of the vine shoots.





Variants / Options:

- Top cutter one or two sided
- Trimmer One-sided L, U or C shaped cut
- Trimmer L or U shaped two sided with 3-6 knives
- Vertical cutter bar with 3 / 4 / 5 / 6 knives
- Undercut trimmer
- Horizontal cutter bar 2 or 3 knives (fix or mobile with collision protection)
- Vertical cutter bar 3 / 4 / 5 expandable with undercut knife (angle of attack max. 45°)

Special features:

- Easy belt change thanks to freely accessible drive train
- Maintenance-free V-ribbed belts for the knife drive - no retensioning necessary
- Indirect knife drive via V-ribbed belt - Motor protection in case of collision
- Collision protection via gas pressure dampers on both vertical cutter bars
- Sickle knives (wire-repellent) turn downwards - less contamination of tractor and machine due to less stray plant parts
- Direction of rotation of the knives can be changed on request

TRIMMER



TECHNICAL DATA

Weight: depending on the configuration

Distributors: 1x s.a. with pressure-free return

Oil requirement: Depending on the number of motors installed, from 16 up to 35 l/min (from 4.2 up to 9.2 gal/min)

LIFT POLE

LIFT POLE

Resilient
Universal
Reliable



ATLAS - HEXAGONAL PROFILE

The ATLAS mast is characterized by the hexagonal profile proven with the HEXAGON frame. Due to its construction and the resulting load capacity, it is ideally suited for increasing demands. In combination with the hydraulic lateral inclination, the working implement can be optimally placed in working and driving positions. Adaptability of attachments of all brands





ATLAS



Special features:

The special design of the adapter plate allows the attachment of a wide variety of manufacturers.

The Atlas can additionally be configured with a side tilt (lift mast) and an angle adjustment (attachment).

Using Z-kinematics, you can control these in parallel to ensure that the working tool is always perpendicular to the leaf wall.

A hydraulic cross adjustment allows an optimal adaptation of the working tool to the line width.

TECHNICAL DATA

Weight: 100 kg
Stroke: 950 mm
Lateral inclination: 26/18°
Hydraulic widening 400mm (Option)

CANE PULLER

CANE PRUNER

Economical
Effectiv
Functional



KOBOLD

The front mounted KOBOLD is placed above the vine row. A pair of finger wheels guides the vine wood, that has been cut off at the arch or the lead cane at the lower or fruiting wire, into the KOBOLD's catchment area while holding the tying up or top wire down so that it cannot enter into the machine. The spider wheel mounted in front of the tires center the rods, which allows a clean pulling in of the cut material. The rods are then guided to the center of the row by means of the hood and laid down. Optionally, the cover is equipped with a chopper, which crushes the drawn-out vine shoots before dropping them.





with chopper



without chopperr

KOBOLD



Preparation of the vineyard

To ensure the function of the cane puller KOBOLD, just two important preparations are necessary:

1. The shoots have to be at least 14" higher than the highest wire.
2. The wire-frame has to be in a good condition and has to be as tight as possible.

TECHNICAL DATA

Oil requirement:: with chopper: min. 35 l/min / without chopper: min. 50 l/min

Weight: with chopper: ca. 345 kg / without chopper: ca. 395 kg

Working speed: ca. 2 - 4 km/h

THINNING

AUSDÜNNER

Variable
Chemical free
Profitable



THINNING

FLEXITREE, a design also known as „Baum“ or „The Bonner“ for mechanical fruit load regulation. Based on the development by Dr. Damerow and Dr. Blanke and protected by international patent, the FLEXITREE is now produced by CLEMENS in Germany.

In heavily flowering fruit trees, FLEXITREE can remove excessive undesired flowers in pome and stone fruit trees by using several rotors with elastic strings. This application reduces the use of chemicals designated as phytohormones. The objective is to remove individual flowers of the flower cluster in order to improve fruit quality (fruit size, fruit color and sugar content). FLEXITREE offers a wide variety of options to adjust the device and its rotor to different tree heights and shapes and is particularly suited for tall and slender spindles, central leader and fruit wall.





Hydraulics:

- 1 x d-a for lifting pole
- 1 x d-a for angle adjustment of lift pole ATLAS
- 1 x d-a for hydraulic width adjustment (optional)
- 1 x s-a with pressure free return line and oil flow divider

Advantages::

- Fast and chemical-free thinning
- Temperature independent use
- Alternate refraction
- Simple and low-cost processing
Individual adjustment possibilities
- Application in integrated production and organic cultivation



FLEXITREE



TECHNICAL DATA

- Stroke ATLAS: 950 mm
- Angle adjustment: 26°/18°
- Optional: hydraulically width adjustment 400 mm

CONTROL

C.CONTROL

Advanced
Intelligent
Sustainable



C.DRIVE

Due to the high demands placed on hydraulics, most narrow track tractors in use today reach their performance limits from their valve and control equipment. With C-DRIVE, all common narrow track tractors and tool carriers can be retrofitted with a hydraulic block (C-MOTION) adapted to your requirements, a suitable joystick (C-CONTROL) and the corresponding wiring (C-CONNECT). The block is supplied via a single-acting valve of the tractor.

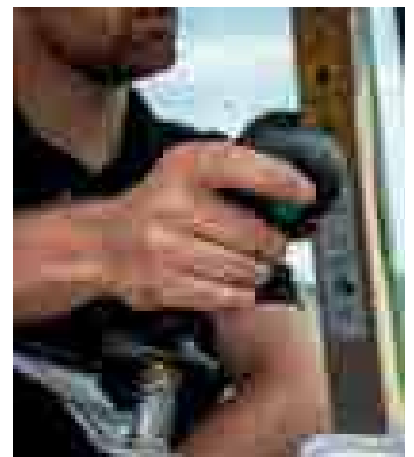
C-MOTION



C-CONTROL



C-CONNECT



TECHNICAL DATA

		NUMBER OF FUNCTIONS						
		1	2	3	4	5	6	7
	SHUTTLE VALVES VALVE For hand lever, 1 D.A.	●	●	●	●	●		
	SHUTTLE VALVES VALVE Selectable with signal cables via the tractors joystick, 1 D.A. to 3 functions, 2 D.A. To 5-6 functions	●	●	●	●	●	●	
	SPLITT VALVES SPLIT VALVE 1 D.A. with floating position - 1 S.A.+ free return	●	●					
	MONO BLOCKS C.CONTROL STANDARD Control unit block, 3 D.A.	●	●	●				
	MONO BLOCKS C.CONTROL STANDARD + VALVE Control unit block, 3 D.A. + 1 S.A	●	●	●	●			
	MONO BLOCKS C.CONTROL COMFORT Control unit block, 4 D.A.	●	●	●	●			
	MONO BLOCKS C.CONTROL COMFORT + VALVE Control unit block, 4 D.A.+ 1 S.A	●	●	●	●	●		
	MONO BLOCKS C.CONTROL TWIN Control unit block, 2 D.A, 2 S.A with floating position	●	●	●	●			
	MONO BLOCKS C.CONTROL TWIN + VALVE Control unit block, 2 D.A, 2 S.A with floating position + 1 D.A	●	●	●	●	●		
	PROPORTIONAL PILOT-OPERATED HYDRAULIC BLOCKS C.CONTROL COMFORT PLUS Hydraulic block 5 D.A	●	●	●	●	●		
	PROPORTIONAL PILOT-OPERATED HYDRAULIC BLOCKS C.CONTROL PREMIUM Hydraulic block 7 D.A, also available with hydraulic block 5 D.A	●	●	●	●	●	●	●

- double acting valve
- single acting valve with floating position
- single acting valve with floating position
- Doppeltwirkendes Ventil als Wechselventil

PRODUCTION

MADE IN WITTLICH

Production depth
Research
Development



EFFICIENCY ON SITE

Our location in Wittlich (Germany), with more than 180 employees and more than 40 young people as apprentices, makes it possible for us to produce unaffected from mass production and efficient as well as reacting quickly on the always changing market demands, with a permanently modernized plant, well trained employees and selected materials. All this know-how and qualified employees allow us the production of machines for viticulture with highest quality and reliability for more than 65 years. After the origin in serial production of machines for viticulture, CLEMENS is also profiled in the field of design and construction of stainless steel tanks, customized installations of wine cellars and the conception and the construction .





VARIETY OF JOBS IN HIGHEST QUALITY

cutting, plasma burning, turning, milling, drilling, welding, painting as well as assembling of hydraulic, pneumatic and electronic controlling systems.

CLEMENS

CLEMENS GMBH & CO KG - RUDOLF-DIESEL-STR. 8 - 54516 WITTLICH - GERMANY - TEL: +49 65 71 - 929 00 - WWW.CLEMENS-ONLINE.COM

Since its foundation in the year 1952 by Bernard and Mathias Clemens, the CLEMENS Company has been producing vineyard and agricultural machines with superior strength and durability. The company is family owned and is represented today by Thomas and Bernhard Clemens, both sons of Bernard. CLEMENS develops, manufactures and distributes high quality, unique and innovative pro-

ducts like the RADIUS Around-the-vine Weeder, HEXAGON, a strong utility frame for different cultivation tools and ROTARY BRUSH for sucker removal, and several more machines for various applications. CLEMENS machines are the key to successful vineyard management. Besides special services for winery technologies, we also supply special tank-designs with equipment and materials based on the cus-

tomers demand. Individual tasks are always taken care of with total dedication, to ensure our client's needs are fulfilled. More than 80% of all products are exported all over the world, which shows the strength and demand of our machines. Currently CLEMENS is represented in more than 35 countries.



NEW CONSTRUCTION

with 14.000 m² production
and 3.000 m² office

