

CANOPY MANAGEMENT



#INTELLIGENT
MECHANISATION

CANOPY MANAGEMENT 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 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 31.5 in lift height.

- ✓ Simple structure
- ✓ Robust
- ✓ Easy cleaning



TECHNICAL DATA

Weight: approx. 187.4 lbs

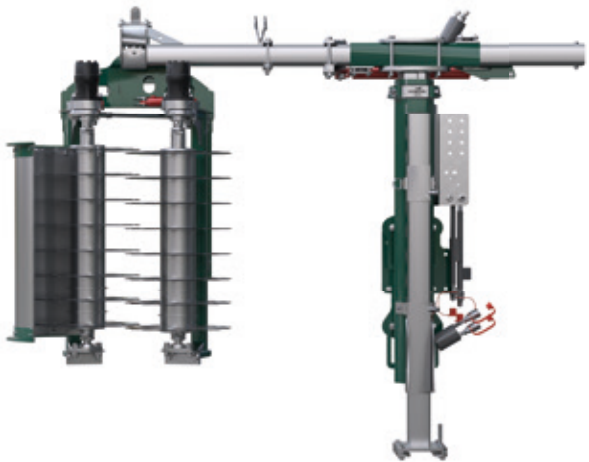
Length x width x height:
approx. 29.3 x 23.8 x 25 in

Oil requirement: approx. 4 - 6.3 gal/min

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

CANOPY MANAGEMENT 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 pruning. The cutting head is equipped with a different number of cutting pairs depending on the conditions. The distance between the knives is 100 mm. 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.

- ✓ Variable
- ✓ Fast reaction
- ✓ Wear-resistant



TECHNICAL DATA

Weight: approx. 419 lbs

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

Oil requirement: approx. 8 gal/min

AUTOMATIC OPENING SYSTEM

- Visual recognition of all post types
- Manual setting of the opening system via WEBAPP (iOS & Android)
- High working speed even with strong foliage wall
- Relief for the driver
- Perfect working result when going uphill or downhill and fast or slow working speed

CANOPY MANAGEMENT SHOOT BINDER EASYFIX



The shoot binder EASYFIX is easy to use, maintain and adjust and works with biodegradable clips. This means that after about 18 months of exposure to the sun, the polypropylene stapling cord can be mechanically removed with a rewinder, saving a significant amount of time.

Special attention is paid to the gentle but powerful erection of the foliage, which is gentle on the vines. The built-in cord brake system facilitates the attachment of the cord at the end of the row.

- ✓ Practice-oriented
- ✓ Environmentally friendly
- ✓ Reliable



TECHNICAL DATA

Hydraulic requirement basic unit:
1x single-acting with at least 6.6 gallons
and pressure-free return
Hydraulic requirement options:
1x each double-acting (e.g. for lift mast)
Weight basic unit: approx. 573 lbs

Weight incl. lift mast ATLAS: approx. 926 lbs
Working speed: approx. 3.1 mph
Magazine capacity: 300 Clips
Tensile strength:
yarn 750m/kg: 205 lbs
yarn 900m/kg: 165 lbs

SPECIAL FEATURES

- Very light: the machine weighs about 353 lbs
- Suitable for all types of vineyards
- Easy to use, maintain and adjust
- An ecological concept with biodegradable clips
- Yarn brake for pre-tensioning
- A built-in block to perform movement functions

CANOPY MANAGEMENT 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.

- 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

- ✓ Variable
- ✓ Robust
- ✓ Maintenance free



TECHNICAL DATA

Weight: Depending on the configuration

Distributors:
1x s.a. with pressure-free return for the trimmer
1x d.a. for the mast
1x d.a. for angle adjustment
1x d.a. for width adjustment

Oil requirement:
Depending on the number of motors installed,
from 4 up to 9.5 gal/min

OPTIONS



- Vertical cutter bar with 3 / 4 / 5 / 6 knives
- Undercut trimmer
- Horizontal cutter bar 2 or 3 knives
- Vertical cutter bar 3 / 4 / 5 expandable with undercut knife extendable (max. 45°)
- Hydraulic tunnel adjustment
- Hydraulic height adjustment from upper knife mechanically or hydraulically
- Angle adjustment of knife carrier
- 3-cutting knife

CANOPY MANAGEMENT ATLAS



The ATLAS lifting mast is characterised by the hexagonal profile proven in the HEXAGON. Due to its design and the resulting load capacity, it is ideally suited for increasing demands.

In combination with the hydraulic side tilt, the implement can be optimally brought into working and travel position. With the aid of adapters, all implements available on the market for lifting masts can be mounted. With the CLEMENS mounting, you can also easily attach the lift mast to your existing KMS or ERO front console.

- ✓ Powerful
- ✓ Universal
- ✓ Reliable



TECHNICAL DATA

Hydraulic requirement:
1x double-acting + 1x double-acting per option

Weight:
Lift mast: approx. 220 lbs
Angle adjustment: approx. 132 lbs
Rigid support: approx. 57 lbs
Working angle adjustment: approx. 71 lbs

Length x width x height:
Lift mast (retracted): approx. 7.5 x 11.8 x 53.3 in
Angle adjustment: approx. 9.8 x 16.5 x 23.6 in
Rigid support: approx. 4.9 x 11.8 x 22.2 in
Working angle adjustment: approx. 14.8 x 18.3 x 8.5 in

Stroke (maximum): 37.4 in

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.

CONTROL C-DRIVE

- double acting valve
- single acting valve with floating position
- double acting valve as deviation valve
- double acting valve with floating position

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 56 functions							
 SPLITT VALVES SPLITT VALVE 1 D.A. with floating position 1 S.A.+ free return							
 MONO BLOCKS C.CONTROL STANDARD Control unit block, 3 D.A.							
 MONOBLOCKS C.CONTROL STANDARD + VALVE Control unit block, 3 D.A. + 1 S.A							
 MONOBLOCKS C.CONTROL COMFORT Control unit block, 4 D.A.							
 MONOBLOCKS C.CONTROL COMFORT + VALVE Control unit block, 4 D.A.+ 1 S.A							
 MONOBLOCKS C.CONTROL TWIN Control unit block, 2 D.A, 2 S.A with floating position							
 MONOBLOCKS C.CONTROL TWIN + VALVE Control unit block, 2 D.A, 2 S.A with floating position + 1 D.A							

You do not have enough control valves on your tractor to operate different hydraulically driven implements or adjustment functions at the same time? With the C.DRIVE system, we offer you a convenient and cost-effective solution. The large variability from 3 to a maximum of 7 additional valves enables the exact adaptation to your requirements. These valves (and also certain tractor functions) are operated via a touch screen and a multifunction joystick in the driver's cab.

- ✓ Progressive
- ✓ Intelligent
- ✓ Sustainable



OPTIONS

- On request also proportional blocks up to 12 double-acting functions
- Presetting possible via CLEMENS application via smartphone

CONTROL C-SMART



The hydraulic blocks adapt to the work being carried out and are configurable to meet the requirements and the various tool combinations. During this process, the different valves adapt to the user through the supply power. The movements are proportional by operating the mini-joysticks. The handle is used to switch the drive and motors of the various tools on and off and to adjust the amount of oil they receive. The joystick offers a wide range of functions, making it easy and intuitive to operate. The functions of the buttons and the mini-joystick can be set according to one's own wishes and needs via an app.

- ✓ Intelligent
- ✓ Precise
- ✓ C-Smart-App



OPTIONS

C-Control Evolution Plus:
Joystick with 3 Thumb control
C-Control Evolution:
Joystick with 1 Thumb control
App-Connect:
(App on Smartphone)

Connection of sensors:

- Automatic height adjustment
- Automatic adjustment of inclination
- Automatic opening

VITICULTURE APP MOOSLE

Less paperwork. More viticulture.



Moosle is a state-of-the-art cloud software solution that provides you with detailed and smart support throughout your outdoor operations. Whether it's a job index, task planning, documentation, inventory monitoring, integration of telemetry or analysis of your workflows: You have everything you need for efficient operations management under one roof, without having to sacrifice time for complex administration. It doesn't matter whether you use Moosle with a mobile phone, tablet or PC: All functions are always available to you - even in a dead zone. In addition to built-in navigation functions, the user-friendly Moosle app is currently available in 12 different languages, so that every worker can enjoy the benefits of the app without any misunderstandings.

- ✓ Simple operation
- ✓ Time-saving
- ✓ Modular

LIVE-TRACKING

The tractor operator can additionally record his work by GPS and thus no longer has to worry about forgetting individual areas. Not even when driving with multiple machines, because the progress synchronizes on

all devices in real time. As a boss, you always have an overview of where your employees are currently working.



Easy registration,
test immediately!

PLANT PROTECTION/ FERTILIZER

The inventory of all consumables can be managed in Moosle. Especially the consumption of pesticides and fertilizers are documented separately and prepared professionally. This way, even organic winegrowers can calmly look at the documentation.

HIGHLIGHTS

- Smart Impact file
- Claims management
- Machine management
- Documentation
- Stock monitoring
- Multilingual
- Analysis of the work flow
- Integration of telemetry (indiv. settings)

TASK PLANNING

With the program, work orders can be sent to all employees in seconds. If workers are not familiar with your vineyards, they can be guided to the fields via our fully integrated navigation function. While they

work through the task, the winemaker always has an overview of the current progress and can view detailed evaluations of hectare speeds and other key figures of the work progress.



„With Moosle, we have found a software that makes life easier for us. We effortlessly document our crop protection additionally because we have Moosle running on our mobile phone in the tractor.“

JÖRG BERNHARD - WEINGUT BERNHARD

SERVICE

In close cooperation with universities, educational establishments and customers, Clemens is constantly developing new products and ideas. In 2009 the founder, Mr. Bernard Clemens, in recognition for his commitment to the preservation and promotion of wine culture in the steep vineyards of the Moselle. Participation in international trade fairs, continuous product development, opening up new markets and expansion of the product range as well as investments in modern machinery will continue to ensure the growth of the Clemens company in Wittlich.

The Clemens company is distinguished by its extremely robust and reliable and reliable devices. In addition, we have a large assortment of spare parts with more than 30,000 articles. In addition, we offer a customer service which, upon request, can repair or service your equipment on site.

For further questions on the subject of service and demonstrations we will be pleased to help you under the telephone number 06571 / 929-0.

NOTES



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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 products 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 customer's 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.

