

FOR SUCCESSFUL VINEYARD MANAGEMENT

TECHNOLOGY FOR ROW CULTURES

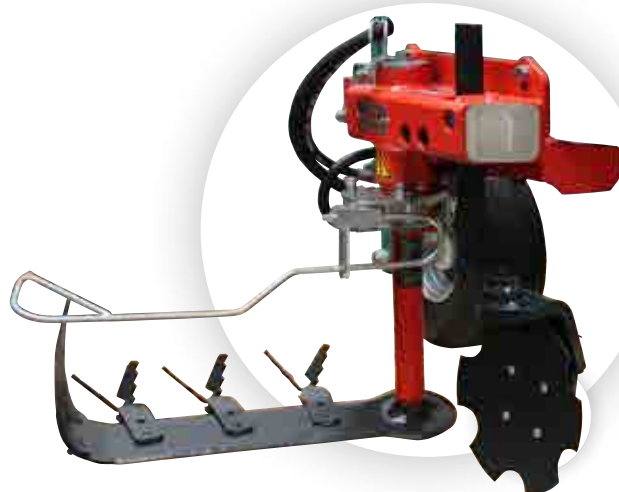


- SUBSOILING
- CULTIVATING
- WEED CONTROL
- FERTILIZING
- STEM CLEANING
- HEDGING
- DEFOLIATING
- PLANT PROTECTION
- PRE-PRUNING
- SHOOT BINDING

50° n Br. - The vineyards at the 50th parallel north in Wittlich

RADIUS SL

WEEDER



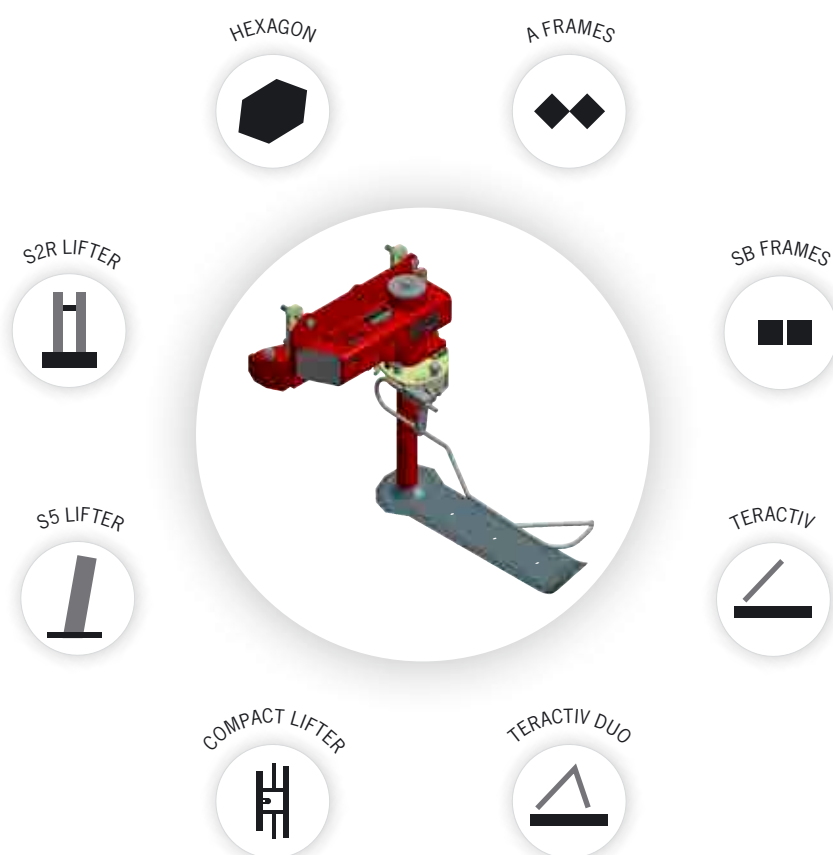
RADIUS SL



RADIUS SL AROUND-THE-VINE WEEDER is the environmentally friendly alternative to chemical weed control. The weeds rot in a natural manner. Less drought stress through destruction of

the capillaries. Soil activation and promotion of optimum soil condition. Sensitive sensor technology for clean work around the vine. Rear, mid- and front mounting possible, 1 or 2 sided ver-

sions. Versatility through different tools in front of the blade and additional devices.



TECHNICAL DATA:

Oil requirement RADIUS SL: 6 – 10 l/min
With rotary tiller/device: 21 – 25 l/min

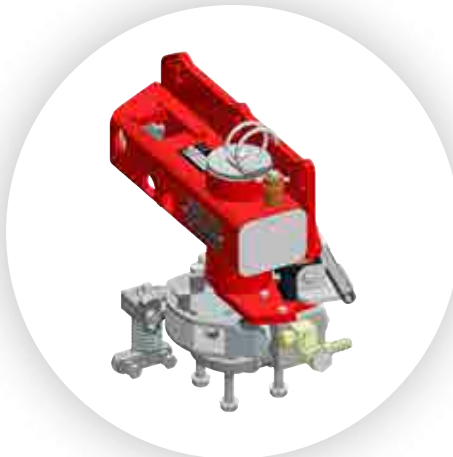
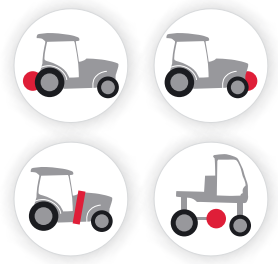
RADIUS SL

Working depth: 50 – 100 mm
Working speed: 5 – 10 km/h

Blade length: 370 / 500 / 620 mm
Weight: 33 kg

universally mountable, also on already existing cultivators, hydraulic rotary harrow. **Optional side slope correction.**

RADIUS SL + WEEDER



RADIUS SL PLUS



RADIUS SL+ AROUND-THE-VINE WEEDER

The RADIUS SL PLUS (i.e. transition/ change-over shaft) uses the approved technology based on the RADIUS SL.

In addition, the supplement of springs and the replacement of the shaft allow the installation of various attachments.

For all attached tools the triggering off takes place through a sensor rod.

With the help of adapters, the following attachments are quickly installed:

- RADIUS BLADE

This feature should be used when no additional attachments are required in the area to be worked.

- RADIUS BLADE in combination with a rotary cultivator

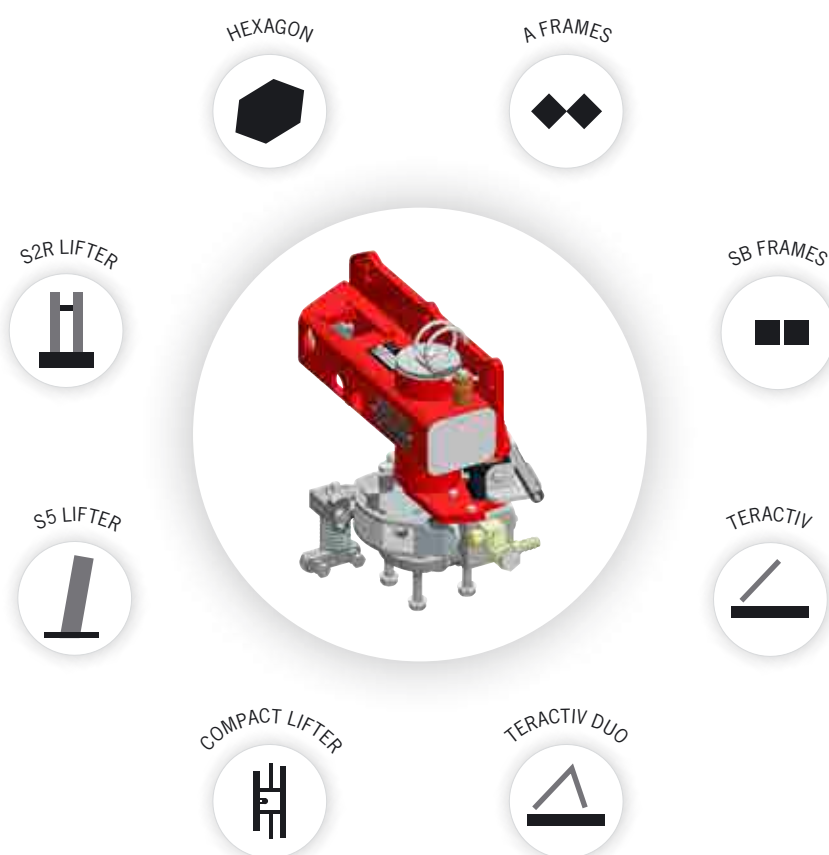
With this combination, the ground is broken up

by the blade first and afterwards split and partly put away by the rotary cultivator, depending on the rotation speed. If the rotary cultivator is spinning too fast, too much soil possibly be thrown into the row.

Hydraulic requirements for double-sided installation:

RADIUS SL PLUS: max. 15 liters

Rotary Cultivator: max. 35 liters



TECHNICAL DATA:

Oil requirement RADIUS SL+: 6 – 10 l/min
Working depth: 50 – 100 mm

RADIUS SL PLUS

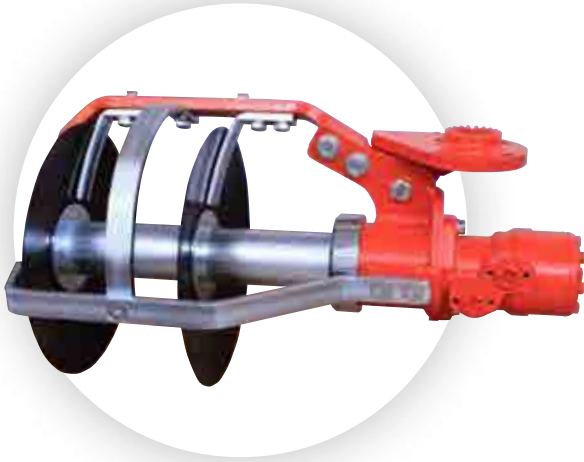
Working speed: 2,5 – 10 km/h
Weight RADIUS: about 35 kg.

Share lengths: 370 / 500 / 620 mm

ACCESSORIES

FOR RADIUS SL+

SL PLUS



HYDRAULICLY DRIVEN DISCS:

The discs (2 pcs.) are used to pull out soil of the vine interspace, for ploughing back or to ridge, for example for a better placement of slurry and dung. In addition to the sensor rod, the disc unit is equipped with a deflecting rail, which pushes the unit away from the vine in case the sensor rod is not triggered, thus preventing injuries and damages to the plant.

TECHNICAL DATA: DRIVEN DISCS

Oil requirement max.: 15 Liter
Weight: 40 kg

SL PLUS



ROTARY CULTIVATOR:

We recommend to use the rotary cultivator in combination with the blade. First the soil is broken up by the blade and subsequently divided by the rotary cultivator and also cleared a little, depending on the speed of rotation. If the cultivator rotates too fast, it is possible that too much earth will be transported into the rows. In this case, this can however be counteracted with a soil and stone deflector. The rotary cultivator can be used without the blade if the conditions are not too extreme.

TECHNICAL DATA: ROTARY CULTIVATOR

Oil requirement max.: 30 Liter
Weight: 23 kg



SL PLUS



SL PLUS



MOWER:

The mower (Ø 400 mm) pivots hydraulically between the vines, there to mulch the vegetation with two knife blades. A protecting ring around the support disk prevents the vine from being damaged.

TECHNICAL DATA: MOVER

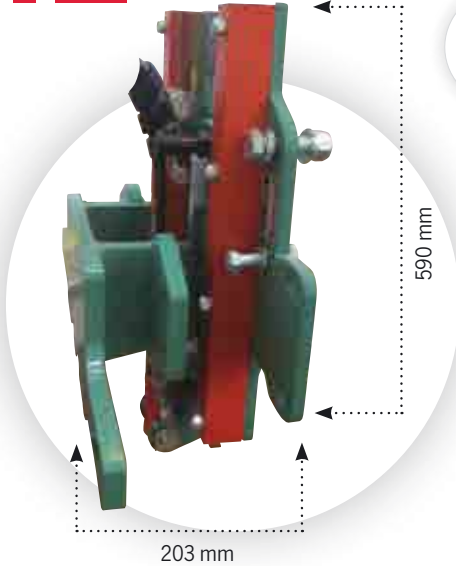
Oil requirement max.: 20 Liter
Weight: 38,5 kg



ACCESSORIES

FOR RADIUS SL & SL+

SL & SL PLUS



COMPACT LIFTER



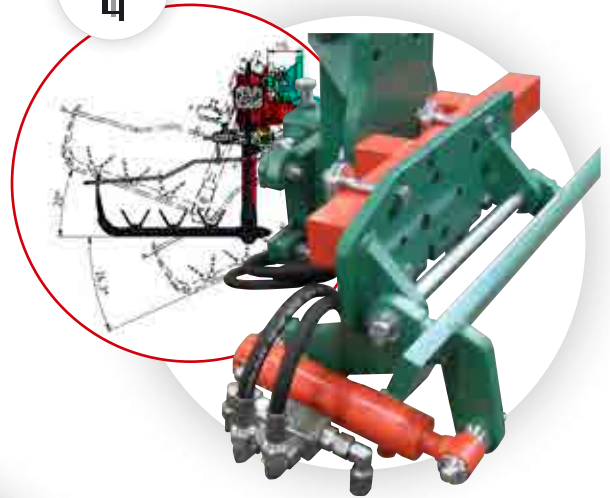
COMPACT LIFTER:

Very compact lifter to protect the grape zone.
Lifting height 300 mm

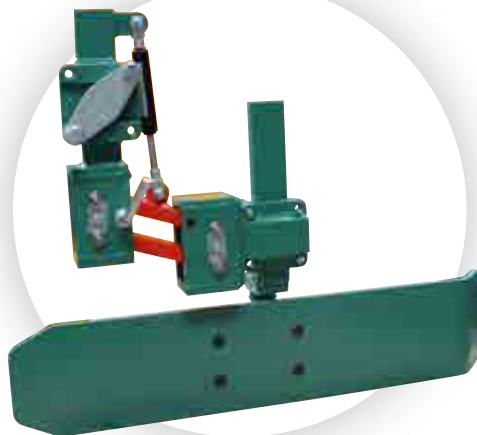
SIDE SLOPE CORRECTION



SL & SL PLUS



SL & SL PLUS



SIDE SLOPE CORRECTION:

With the slide slope correction you can change the angle of the RADIUS to adapt the position perfectly to the condition in slopes. You can choose between hydraulic or mechanical versions. This unit can be mounted on the tool carriers HEXAGON & SB Frames and also on the column lifters S2R and S5.

SOIL & STONE DEFLECTOR:

The soil & stone deflector is mounted behind the RADIUS to keep the cover crop clean of soil and stones. It comes with a parallelogram for ground adaptation. Different adjustment possibilities allow flexibility to achieve the desired results.



SL & SL PLUS

SL & SL PLUS

SL



SENSING SHARE

To mount on the blade 370 / 500 / 620mm

CLEARING SHARE AND PIVOTING CLOD BREAKER

To mount on the blade 370 / 500 / 620 mm

ROTARY TILLER

Oil requirement: max. 15 Liter
Working width: 300 mm

A FRAMES



SB FRAMES



HEXAGON



TERACTIV



TERACTIV DUO



COMPACT LIFTER



S2R LIFTER



S5 LIFTER



GSP DISC



GSP DISC Ø 450 mm:

- simple operation for weeding under the vines
- can be adapted to any soil type
- high driving speed
- long-term weed control can be achieved by mulching
- even water consumption because the capillaries are broken
- reduces most if not all herbicide

GSP DISC



FINGER ROLLER



FINGER ROLLER:

Integrated angle adjustment as is also the case with the disc harrow.
The exterior angle can also be altered with no problems by reinserting the locking pins.

Good distribution of force due to the different disc dimensions for the exterior and interior sprockets.
As a result, both discs work in a sloped working angle at the same level.

In comparison to the disc, we avoid creating a clear edge which can become a water channel on a steep slope.

TECHNICAL DATA:

Disc thickness: 8 mm
Forward speed: between 7 and 8 km/h

Diameter external disc: 400 mm
Diameter internal disc: 340 mm

Adjustment axes: 2
Option: deflector



FINGER HOE

A FRAMES



SB FRAMES



HEXAGON



S2R LIFTER



S5 LIFTER



FINGER HOE Ø 370, 540, 700 mm:

In particular for young plantations or in existing plantations with very crooked stems in which more safety from the sensor is required, the finger hoe works directly around the plant and breaks up the island (also

called the shadow) to gently remove the soil and weeds directly around the vine. Due to the special rubber compound, we work gently and with low wear. NOTE: In sandy soil, the finger hoe can also be used as an individual device. This is not possible in harder condi-

tions. The finger hoes are available in various versions and different levels of stiffness and are driven in combination with a variety of machines for the undergrowth.

TECHNICAL DATA:

Diameter 370 mm
Colour: green
Stiffness: hard

Diameter 540 mm
Colour: green, Stiffness: hard
Diameter 540 mm
Colour: yellow, Stiffness: medium

Diameter 700 mm
Colour: green, Stiffness: hart
Diameter 700 mm
colour: yellow, Stiffness: mittel

FINGERHOE



MULTICLEAN



A FRAMES

SB FRAMES

HEXAGON

COMPACT LIFTER

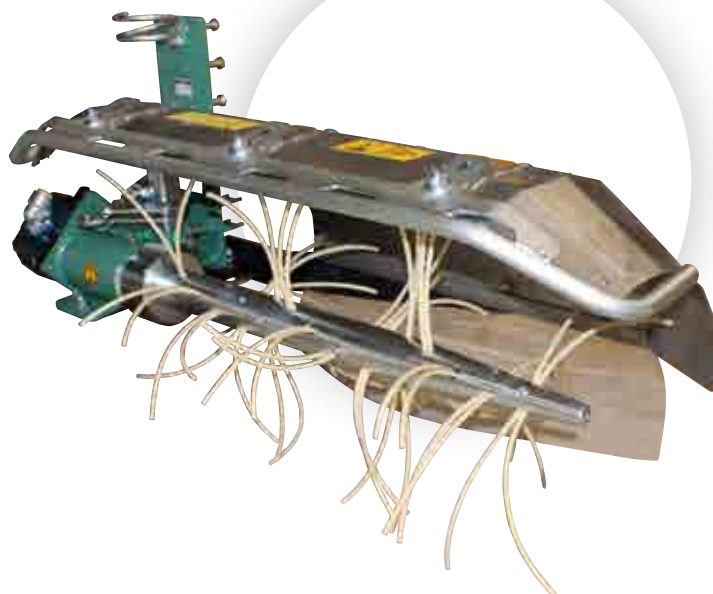
S2R LIFTER

S5 LIFTER

OVER THE ROW FRAME



*MULTICLEAN ONLY



The mulching brush has very strong and smooth cords that protect the vine. The conical aluminum shaft operates smoothly and with

little vibration because of its special shape. It is therefore possible to carry out weeding effectively at 1100 rpm. With the MULTICLEAN you

can remove both the vine buds and the weeds simultaneously with one machine.

TECHNICAL DATA:

Weight, kg:
Dimensions mm: L x W x H:
Rotary speed, rpm:
Cleaning height:
Slope:
Oil requirements, l/Min:
- single sided
- double sided

MULTICLEAN

40
760 x 380 x 510 (without protection)
1.100
450 mm (slope 37,5°)
0 - 37,5° (in steps of 7,5°)
16 - 24
16 - 24 - in line

MULTICLEAN XL

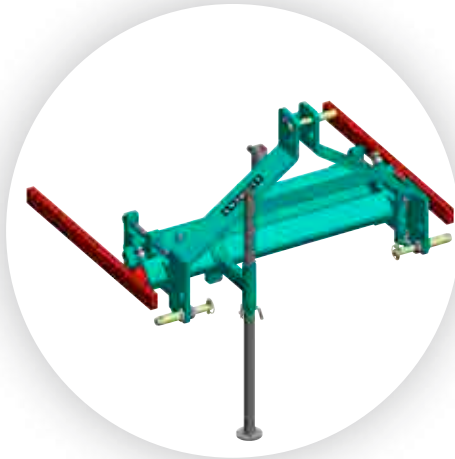
52
1060 x 370 x 520 (without protection)
1.500
450 mm (slope 37,5°)
0 - 37,5° (in steps of 7,5°)
6 - 24
Minimum 30 - two lines

MULTICLEAN



A FRAMES

TOOL CARRIER



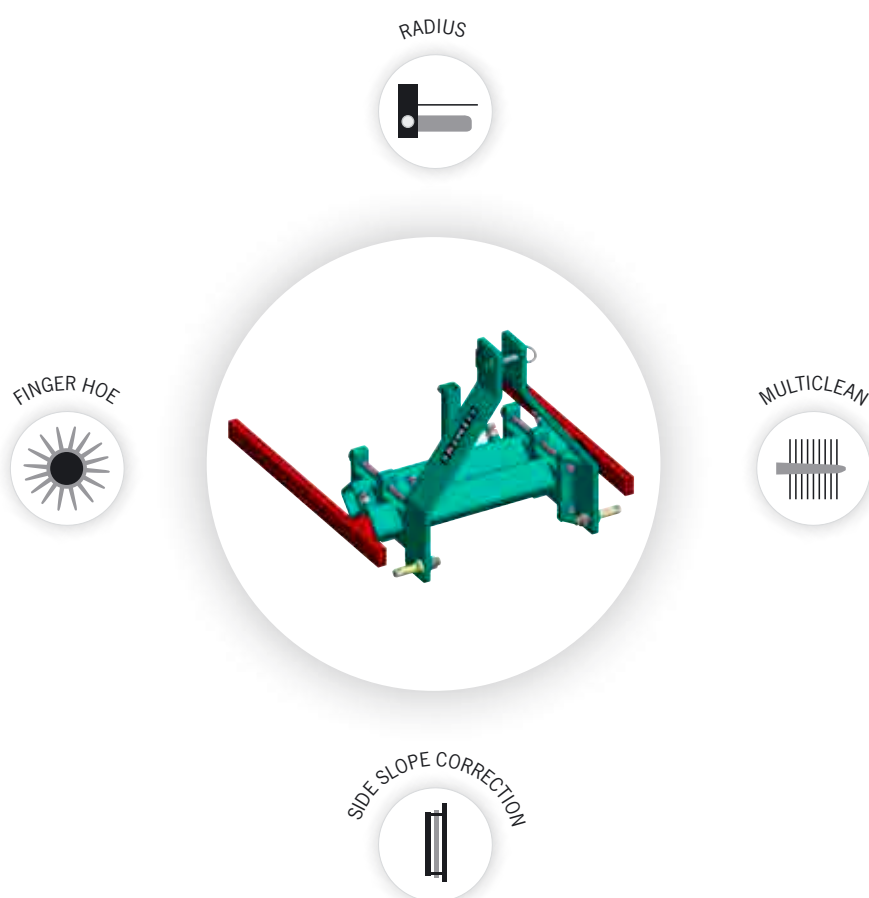
A FRAMES



A FRAME: The A Frame is a tool carrier frame with mechanical width adjustment to attach the CLEMENS RADIUS SL for working light soil,

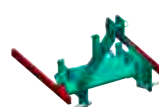
MULTICLEAN for weed control or the ROTARY BRUSH for cleaning out the suckers. The frame is mountable in front or rear. The frames are

available in two different sizes (AR1 and AR2) for row working widths from 1.40 to 2.90 meters.



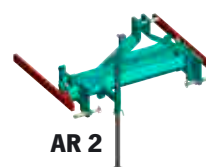
TECHNICAL DATA:

Weight (kg), frame only
 Frame width (mm)
 For row working widths with RADIUS blade (mm)



AR 1

85
 735 - 1455
 1455-2185/1735-2465/1975-2705



AR 2

100
 1050 - 2050
 1770-2770/2050-3050/2290-3290

SB FRAMES

TOOL CARRIER



SB COMPACT



SB2 WITH OSCILLATING 3-POINT FRAME



SB FRAMES

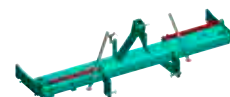
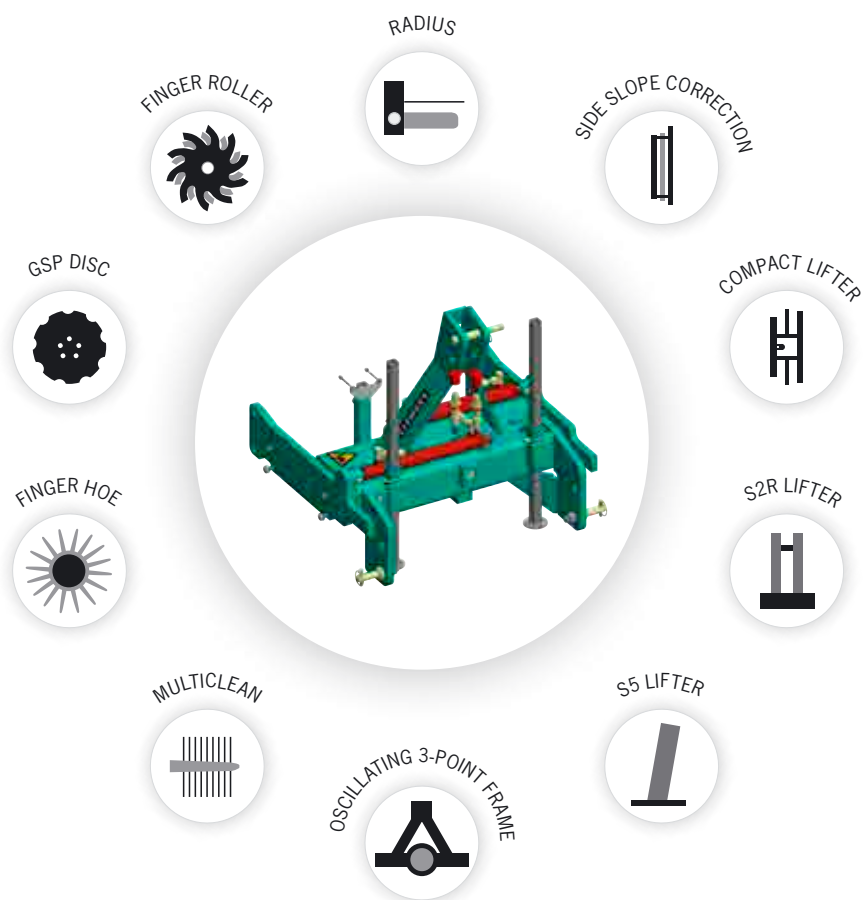


SB COMPACT, SB 2

Light implement frames with hydraulic width adjustment for undervine cultivation for tractor mounting in front or rear. A pump tank hydrau-

lic unit is available for smaller tractors. Ideal for mounting the modern undervine weeding system RADIUS SL or ROTARY BRUSH. SB COMPACT and SB2 are available in two different widths for

cultivating rows from 1.30 to 3.20 m, with extensions up to 3.60 m - depending on the tools.



TECHNICAL DATA:

Weight (kg), frame only
Adjustment (mm)
Frame width (mm)

For row working widths with RADIUS blade (mm)

370
500
620

SB MONO

103
500
960 - 1460

1300-1830
1460-1960
1580-2080

SB COMPACT

144
270
740 - 1280

1480-2020
1740-2280
1980-2520

SB 2

166
500
1000 - 2000

1740-2740
2000-3000
2240-3240

SB ORCHARD

225
500
2250 - 3250

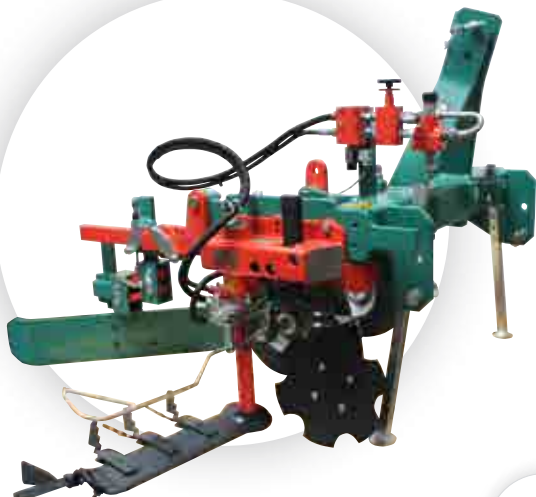
2998-3998
3258-4258
3498-4498

SB FRAMES

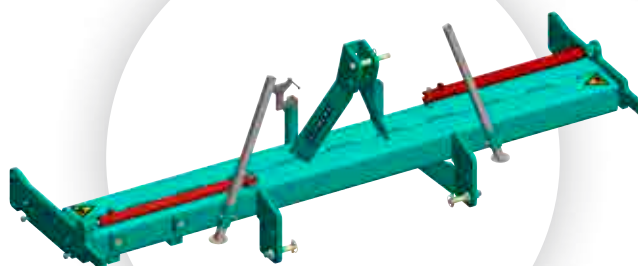
TOOL CARRIER



SB MONO



SB ORCHARD



SB FRAMES



SB MONO

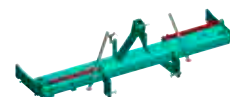
The SB MONO can be attached to the front or the rear of the tractor. The hydraulic width adjustment can be converted from left to right with minimum effort. Using the cylinder, the base frame can be hydraulically extended to the left or to the right by 500 mm, from 960 to 1460 mm.

SB ORCHARD This frame can be adjusted from 2258 - 3258 mm. The base frame serves as tool carrier for e.g. RADIUS, MULTICLEAN, GSP Disc or Finger Roller and can as well be equipped with lateral column lifters. The picture shows equipment with 2 double acting COMPACT Lifters. This structure allows the independent lifting of each side and also height adjustments in terraces.

It is also advantageous for the work in Chevron shaped rows or in end rows. By lifting the side that is not being worked on, machines and headland are spared.

NOTE:

At SB ORCHARD one has to consider the width for road transport, in this example approx. 2950 mm!



TECHNICAL DATA:

Weight (kg), frame only
Adjustment (mm)
Frame width (mm)

For row working widths with RADIUS blade (mm)
370
500
620

SB MONO

103
500
960 - 1460

1300-1830
1460-1960
1580-2080

SB COMPACT

144
270
740 - 1280

1480-2020
1740-2280
1980-2520

SB 2

166
500
1000 - 2000

1740-2740
2000-3000
2240-3240

SB ORCHARD

225
500
2250 - 3250

2998-3998
3258-4258
3498-4498

HEXAGON TOOL CARRIER



WITH RADIUS SL



WITH GSP DISCS



WITH FINGER ROLLER



HEXAGON



With GSP DISCS For rational ventilation in the sensitive undervine area with simultaneous weed control.

With RADIUS Front or rear mounted and also usable as a grubber.

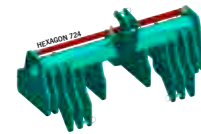
With FINGER ROLLER for a better force distribution due to the different sizes of the discs.



HEXAGON 723



HEXAGON 729



HEXAGON 724

TECHNICAL DATA:

Hexagonal base frame (mm)
with hydr. adjustment width (mm)
with chisel and wing share (mm)
with chisel and wing share (mm)

Frame width
Frame width
Working width
Row width

685
785-1185
1185-1585
1500-1900

825
925-1460
1325-1860
1600-2150

1140
1240-2100
1640-2500
2000-2900

with RADIUS SL blade 370 mm
with RADIUS SL blade 500 mm
with RADIUS SL blade 620 mm

Row width
Row width
Row width

1505-1905
1785-2185
2025-2425

1645-2180
1925-2460
2165-2700

1950-2820
2240-3100
2480-3340

Extension possible in 400 mm steps. Height 1600 mm, length 1400 mm, weight according to equipment

HEXAGON CULTIVATOR



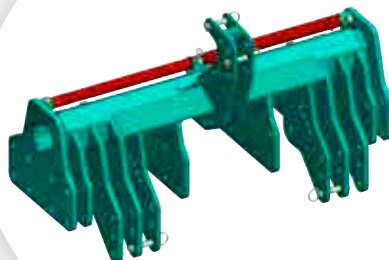
WITH RADIUS SL



WITH DISC HARROW



WITH BISON TINES



HEXAGON



With BISON TINES Through the well directed deposit of fertilizer in the root area, the nutrients are immediately available to the plants, even in longer periods of drought.

With RADIUS mounted on both sides, the row is cultivated completely in one run through.

With DISC HARROW with hydraulically adjustable units is outstandingly suitable for working in all kinds of cover crop

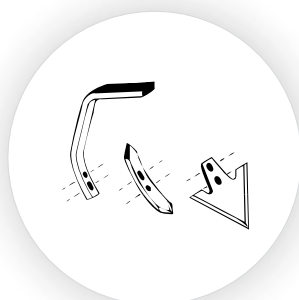
With C-TINES made of spring steel for soil tilling with grubber or duck-foot shares. Various combinations make soil cultivation possible all year round.

With WING-CHISEL SHARE The solid hexagonal sectional frame is suitable for the hardest operating conditions. High-quality spring steel gives enormous strength. The special wing-chisel share undercuts cover crop without destroying it.

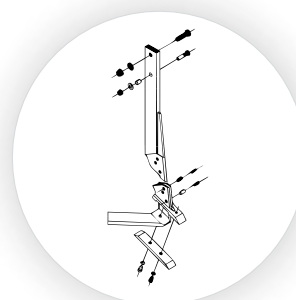
WITH C-TINES



WITH WING-CHISEL SHARE



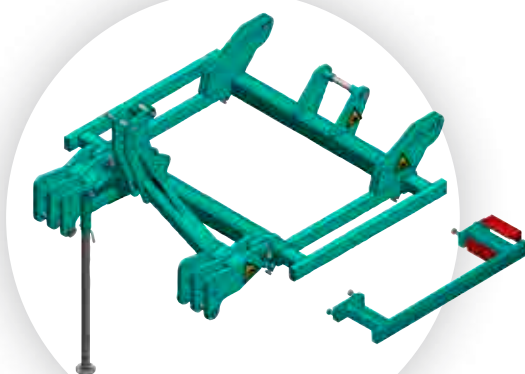
C TINES 50 X 22 MM , GRUBBER SHARE, DUCK-FOOT SHARE



TINE MADE OF SPRING STEEL, 80 X 25 MM WITH SHEARING, FASTENING ADJUSTABLE, REMOVABLE WING SHARE, CHISEL CAN BE USED ON BOTH SIDES

TERACTIV

CULTIVATOR



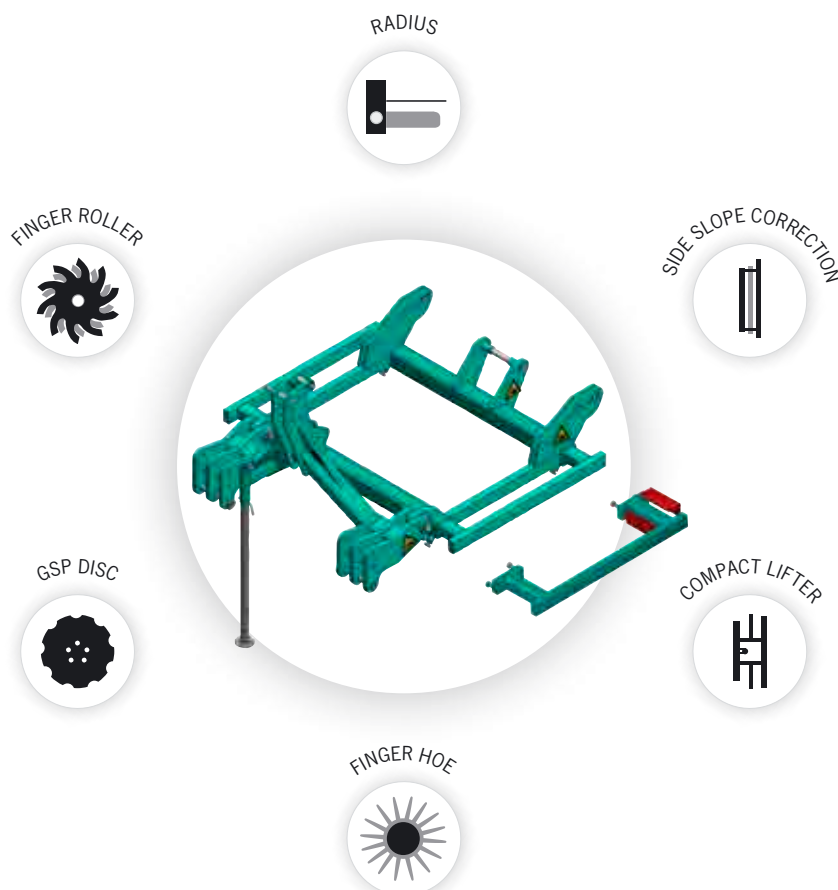
TERACTIV



FOR ACTIVE SOILS: Extremely solid cultivator for soil cultivation in difficult soil conditions. The special kinematics of the mechanical NON-STOP overload protection works actively

and loosens the soil. Thanks to the special share form, the tools retract quickly. Existing organic mass can be worked in effectively and mixed intensively. Options for the device are a

hydraulic steep-lift of 75° as well as extension in 500 mm grids and RADIUS weeders.



TECHNICAL DATA:

Weight (kg), frame only
Stroke (mm)
Frame width (mm)

Working width (mm) with RADIUS blade
370
500
620

TERACTIV

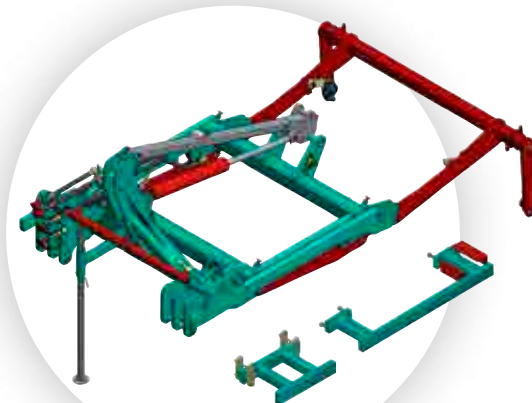
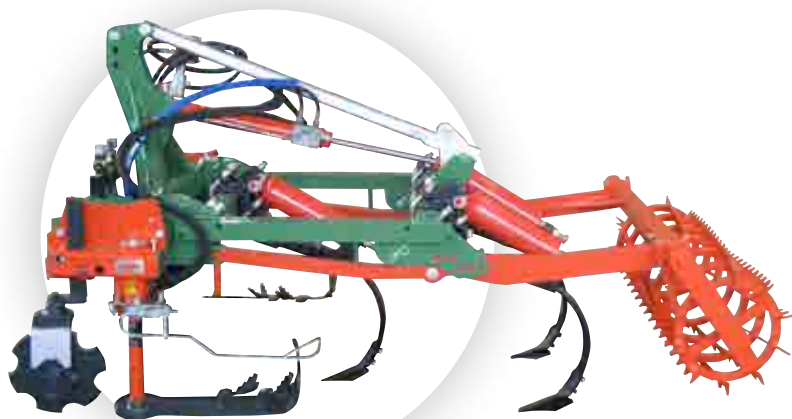
260
500
1130 - 1630

1890-2370
2130-2630
2370-2870

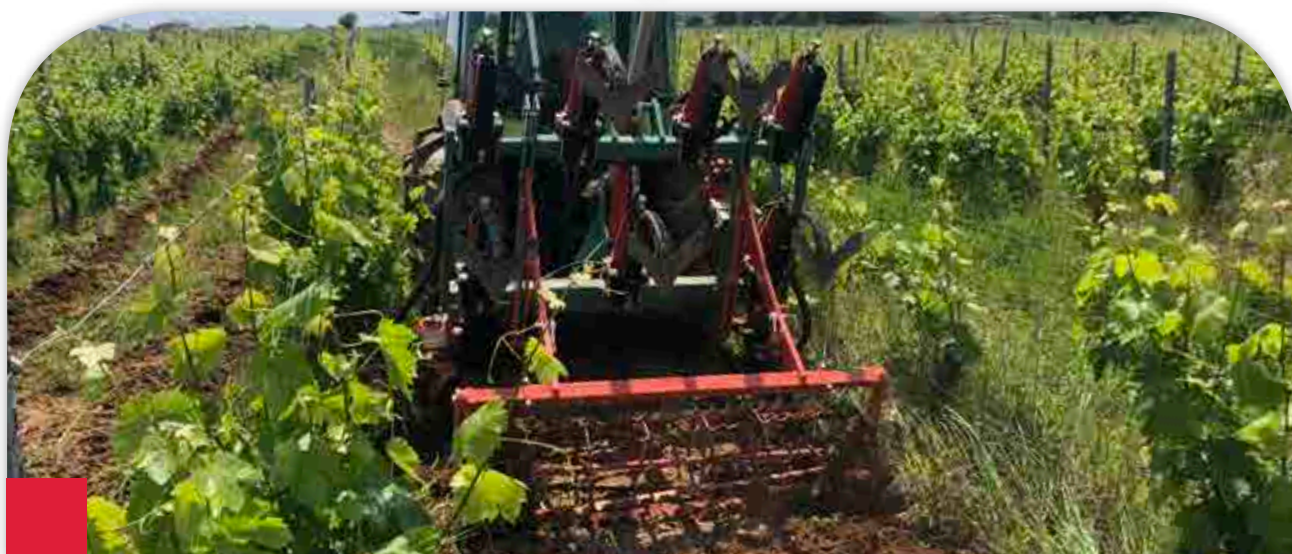
Overload protection: non-stop
Oil pressure (bar): 175
Steep-lift: 75°

TERACTIV DUO

CULTIVATOR



TERACTIV DUO



ONE FRAME - TWO SOLUTIONS:

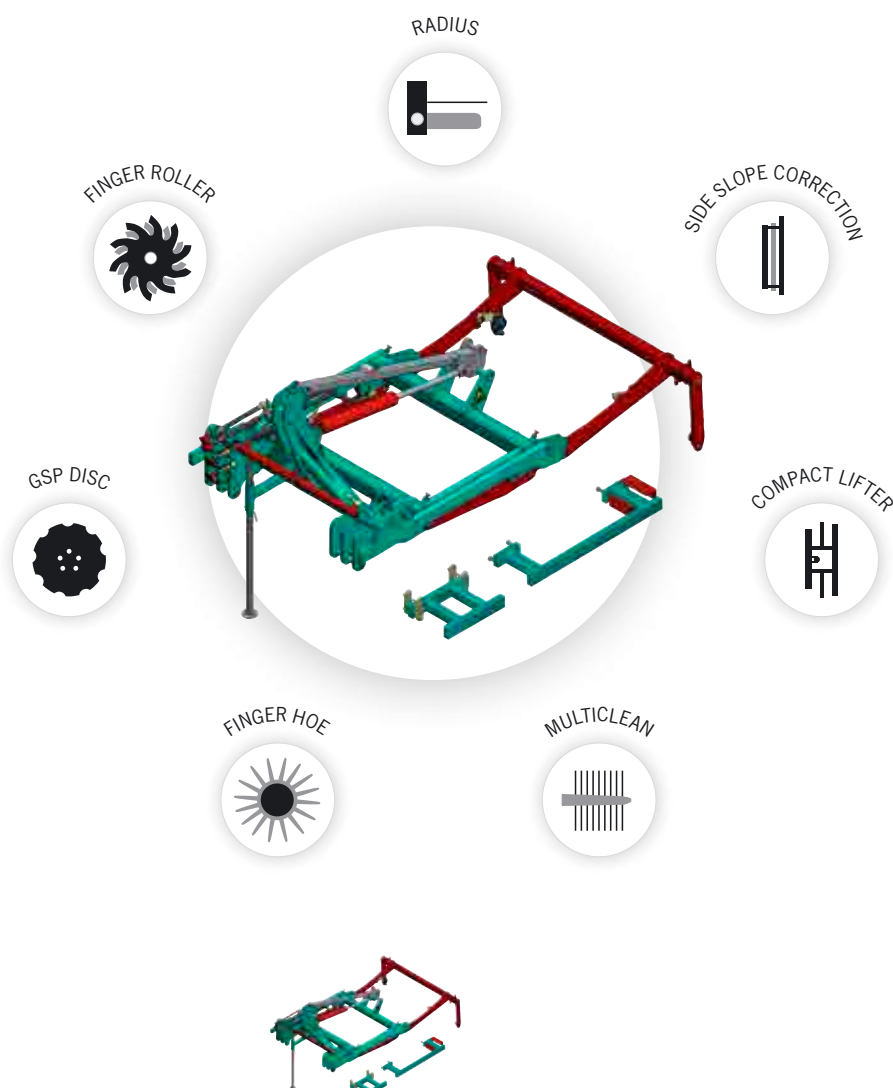
The difference between the TERACTION DUO and the TERACTION is that you can work along a grass track between the vines without cultivating.

To make this possible, the frame with its flexible tines lifts up at an angle of 75 degrees and the roller folds under. Thus the frame is

stabilized when working in the area between vines, as it rests on the grass track. This allows it to move smoothly and maintains a consistent working depth in the area around the vines.

The width of the stable frame can be adjusted from 1,10 to 1,60 m (models that can extend to 2,10 m are also available). The frame where

the Radius is mounted has a hydraulic width adjustment. You have the option to mount 3, 5, 6 or 7 flexible tines to the frame, depending on the width of the frame and how loose you want the soil. For row widths: 1,80 to 2,80 m, with extensions up to 3,30 m.



TECHNICAL DATA:

Weight (kg), frame only
Stroke (mm)
Frame width (mm)

Working width (mm) with RADIUS blade
370
500
620

TERACTION DUO

260
500
1120 - 1620

1860-2360
2120-2620
2360-2860

Overload protection: non-stop
Oil pressure (bar): 175
Steep-lift: 75°

HERKULES

CULTIVATOR



HERKULES:

Versatile capabilities and ruggedness are the main points of the HERKULES. The frame is

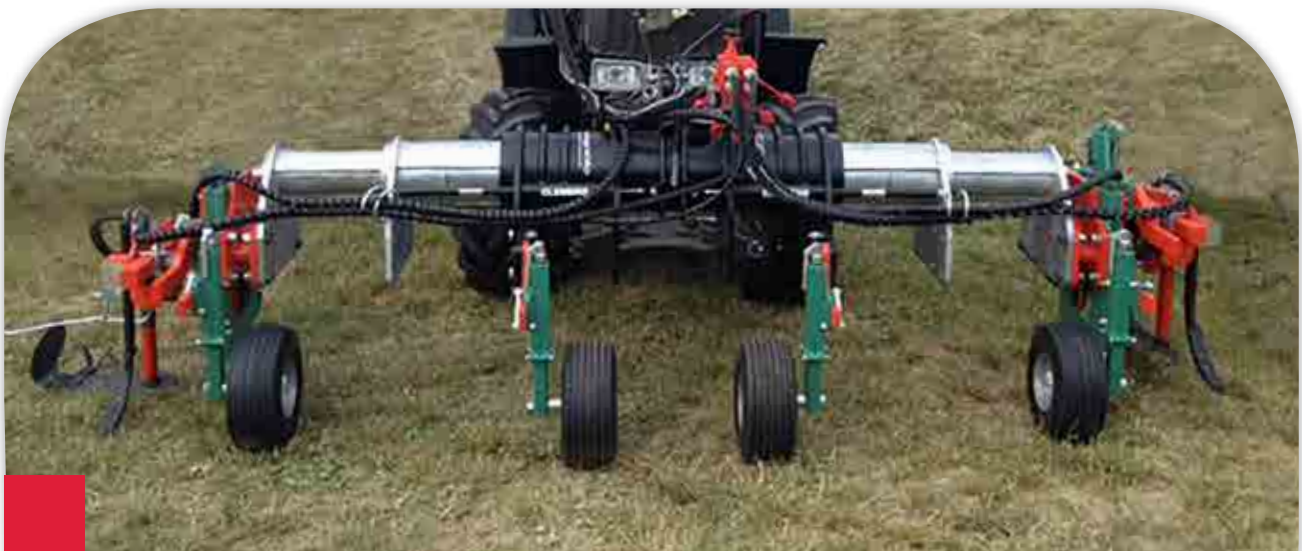
double extendable and covers a wide working width of 1,31 to 2,56 m (without the CLEMENS RADIUS). It can be used like the HEXAGON as

tool carrier or like a cultivator with a variety of tools. Due to the special shape, this frame is ready to work in the toughest conditions.



TECHNICAL DATA:

Weight (kg), frame only:	440
Frame width (mm):	1100
Widening, without attachments (mm):	1310 - 2560



S5 COLUMN LIFTER

S5 COLUMN LIFTER

Compact and robust construction

For various tools

Available in single and double acting

(We recommend to use the S5 with a single

acting cylinder with support wheel for depth control. S5 with double acting cylinder only for hard soils).

Integrated height adjustment with wheel or bolt

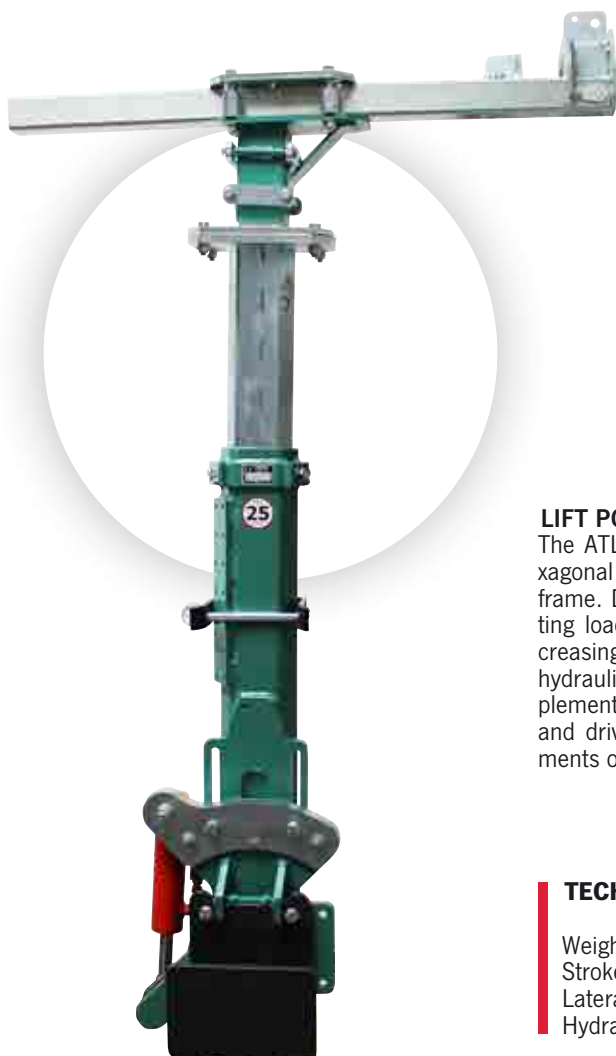
Available in right or left hand side versions
2-sided lifter can be mounted on a hydraulically adjustable frame mid mounted (The chassis must be adapted to the respective tractor).



TECHNICAL DATA:

Weight - without tools (kg)	50
Dimensions (in) length x width x height (mm):	700 x 200 x 1000
Stroke, maximum (mm):	500



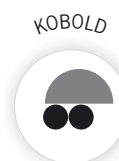
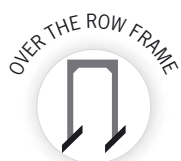


LIFT POLE

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.

TECHNICAL DATA:

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



3-POINT + S2R

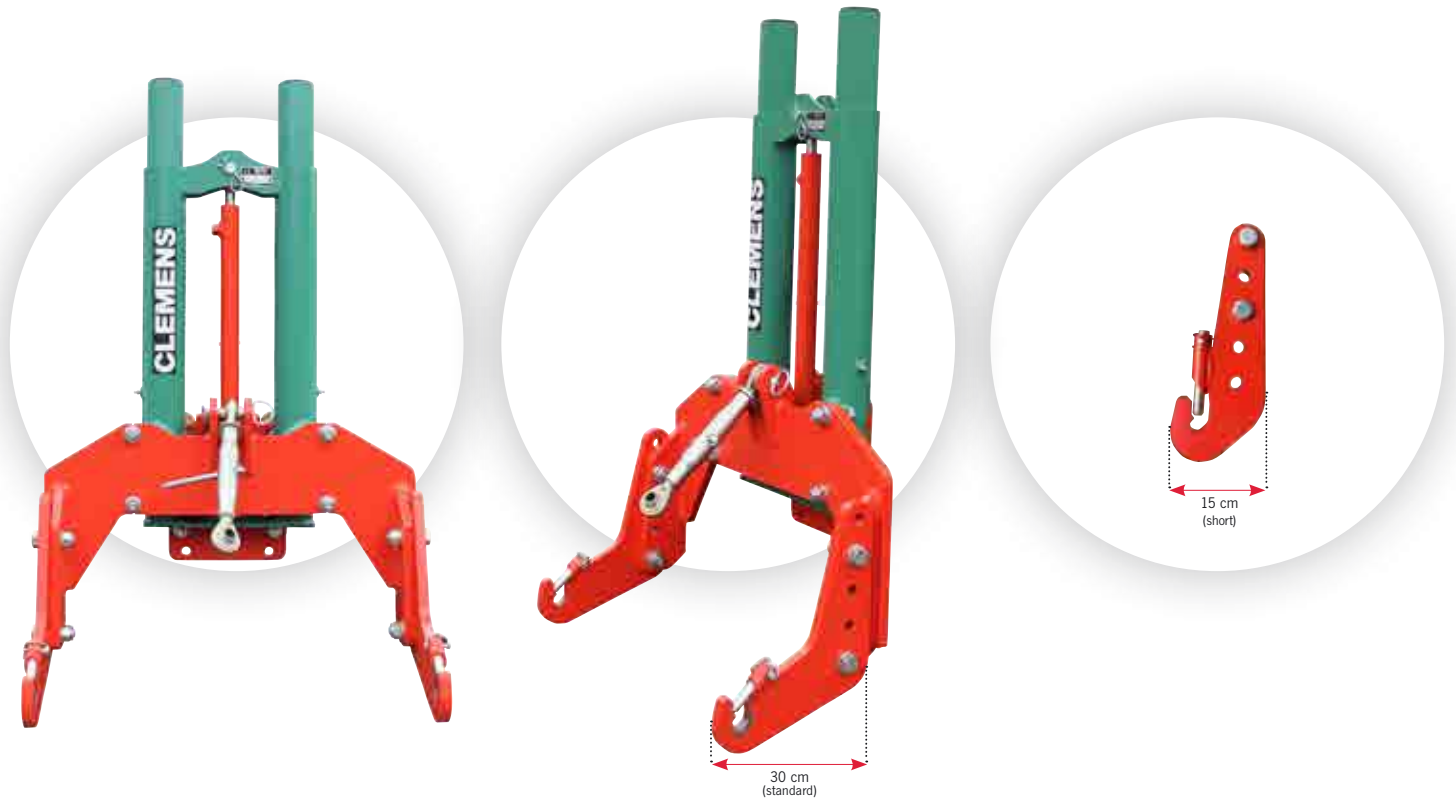


WITH S2R LIFTER:

Front mount with 3 point linkage. The compact solution for multiple CLEMENS products

like the ECO-ROLL, SB COMPACT, SB2, SB MONO, TRIMMER and LEAF REMOVER, etc... Allows easy attachment of the tools. Easy way

to upgrade your tractor with a 3-point linkage.



TECHNICAL DATA:

Weight without tools (kg):	about 80
Dimensions (mm) Length x Width x Height:	320 x 600 x 800
Stroke of S2R (mm):	500 (max)
Carrying capacity (kg):	700



OVER THE ROW

ROTARY BRUSH / MULTICLEAN



TIP!
MORE INFOS ONLINE
WWW.CLEMENS-ONLINE.COM

ROTARY BRUSH / MULTICLEAN

Simple front mounting with over-the-row frame, cultivator or hexagon. Swivelling path and spring pressure adjustable.
Option: Wire lifting device.

TECHNICAL DATA:

Working height (with 22.5° tilt), mm: 580
Oil requirement, l/min: 16-24
Weight, kg: 39



ECO-ROLL



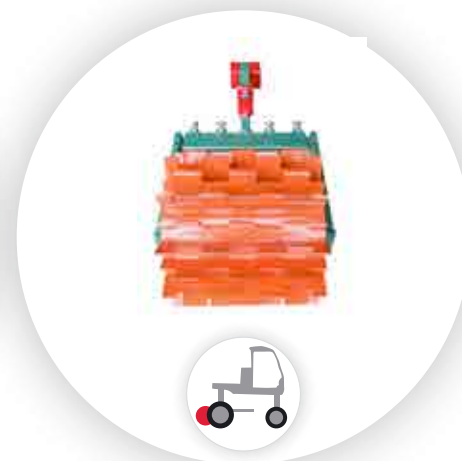
ALTERNATIVE TO MULCHING:

The BIO Mulch Roller ECO-ROLL is the alternative to mulching. The roller can be used easily as part of any process.

ECO-ROLL compresses the vegetation as the

spades fitted to the roller bend and knock down the stalks, thereby producing a carpet of mulch that encourages good shaded composting. The plants then grow through and produce the next carpet of organic material. With

legumes, this method stimulates the growth of the rhizobia and increases nitrogen fixing. Standard width: 1000, 1200, 1400, 1600, 1800, 2000 mm. Width 600 and 800 mm are for high clearance tractor.



TECHNICAL DATA:

ECO-ROLL 400*
ECO-ROLL 600*
ECO-ROLL 800*
ECO-ROLL 1000
ECO-ROLL 1200
ECO-ROLL 1300
ECO-ROLL 1400
ECO-ROLL 1500
ECO-ROLL 1600
ECO-ROLL 1800
ECO-ROLL 2000

WIDTH (mm)

400
600
800
1000
1200
1300
1400
1500
1600
1800
2000

EXTERNAL DIMENSION (mm)

485
685
885
1085
1285
1385
1485
1585
1685
1895
2095

WEIGHT WITH 3-POINT FRAME (kg)

50**
75**
100**
275
310
346
355
386
394
433
525

* for high clearance tractor

** without frame



VITIS

ROTARY HARROW

Rotary speed: 540 rpm

Power requirement: 40/30, HP/kW

Serial equipment:

- Universal 3-point hitch frame for rear mounting
- Heavy angular gear in oil bath with through-drive

- Triple bearing
- Tines driven by robust spur gear running in fluid grease, self-lubricating shaft unit
- Regulation of working depth by central adjustment
- Possibility of eccentric working through displacing the fixing points of the lower link

- Leveling bar is optionally available

YOUR CHOICE:
LOWER LINK CAT. 1
LOWER LINK CAT. 2



TECHNICAL DATA:

	VITIS 100	VITIS 125	VITIS 140	VITIS 170	VITIS 190
Total width, mm:	935	1255	1425	1695	1915
Working width, mm:	805	1150	1370	1590	1810
Tines:	3	5	6	7	8
Weight in kg with cage roller:	553	600	670	730	780
Weight in kg with Packer roller:	615	650	720	780	830



ASCOT

ROTARY HARROW



Rotary speed: 540 rpm
 Power requirement: 40/30, HP/kW
Serial equipment:
 - Universal 3-point hitch linkage for rear mounting

- Lightweight construction
- Heavy angle gearbox in oil bath and oil level indicator
- Tines with double bearing
- The tine drive is running through a robust

- parallel
- Gear in liquid grease
- Working height adjustment via support roller to be fixed with bolts

TIP!
 MORE INFOS ONLINE
WWW.CLEMENS-ONLINE.COM



TECHNICAL DATA:

Total width, mm:
 Working width, mm:
 Tines:
 Weight in kg with cage roller:
 Weight in kg with Packer roller:

ASCOT 100

1043
 961
 5
 331
 350

ASCOT 120

1223
 1141
 6
 365
 703

ASCOT 140

1403
 1321
 7
 399
 778



MULCHER TV

The mulcher works exceptionally well in Vegetation Management and is also suitable for the shredding of cut wood. Attachment to the carrying vehicle is performed by a stable category 1 three point attachment. Drive is provided by

a power take-off shaft set to 540 rpm and a drive shaft with slip clutch that is supplied from the factory. A double-action control unit is necessary for the hydraulic width adjustment. The two rotating blade holders that are both

equipped with two freely movable blades guarantee a high speed of mulching at a very low level of power.



TECHNICAL DATA:	WIDTH 115-155	WIDTH 125-175	WIDTH 140-190	WIDTH 160-210
Weight (kg)	570	580	640	670
Power requirement (HP)	50-70	50-70	50-70	50-70
Length (mm)	1400	1500	1600	1700



EASY FIX

SHOOT BINDER



New shoot-binder:

A winemaker's development for winemakers

- 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
- versatile: a machine that was also developed for the use of biodegradable yarn and operation on various machines (tractors, light-weight caterpillars...)
- gentle: gently raises the tendrils, high-powered

raising of foliage without hurting the vines.
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.



before



after

TECHNICAL DATA:

Weight (kg):
Working speed (km/h):
magazine capacity for clips (pieces)
biodegradable clips

about 160
+/- 5
300

Yarn brake for initial tension
Built-in block to control motion function
Hydraulics: 1x single-acting with at least 12 liters and pressureless return
+ 1 double-acting for the lift mast



TRIMMER

CLEMENS Trimmers offer an impressive range of standard features and options from the single inverted L shape right through to

the Dual mast Dual over row designs shown below.



TRIMMER



TECHNICAL DATA:

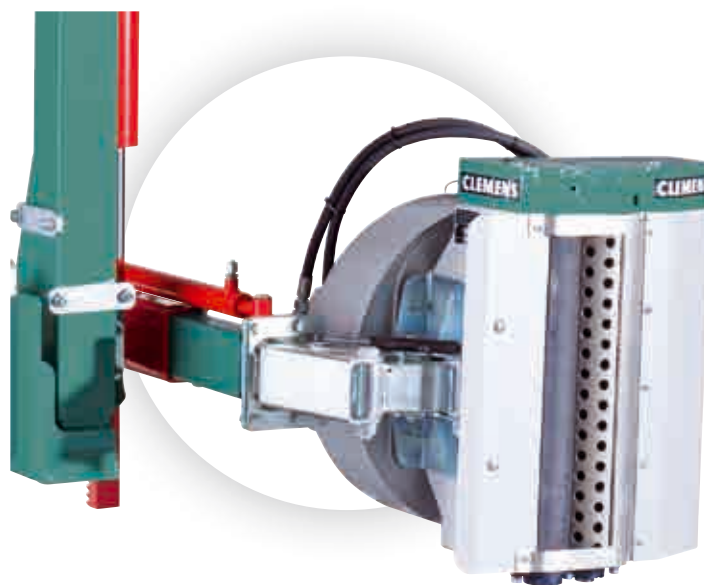
Oil requirement: 10 l/min
Weight: 39 kg
Vertical cutters: from 120 to 190 cm
Horizontal cutters: from 30 to 66 cm



LEAF REMOVER

CLEMENS Leafers can defoliate and blow clean the flower cluster at the same time with optional duo fan. This reduces the fungal infection

not only in the grape zone but also in the grapes themselves.



LEAF REMOVER



TECHNICAL DATA:

Oil requirement: 22 l/min
Weight: EL30: 30 kg, EL50: 50 kg
Two sizes:
EL 30=30 cm / EL 50=50 cm



PREPRUNER

Due to its modular design, the prepruner can be compiled or modified to suit exactly the conditions in your vineyard.



PREPRUNER



TECHNICAL DATA:

Oil requirement: 22-25 l/min
Cutting height: from 50 cm
to a cordon cut
(variable depending on model selected)



KOBOLD



without chopper

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.



with chopper

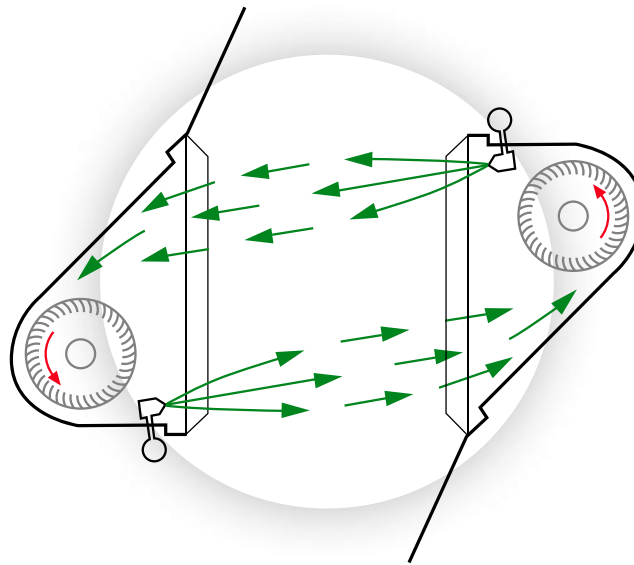
FUNCTION

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.

KOBOLD



RECYCLE



RECYCLING: IT'S PAYING OFF

A new arrangement of the fans (suction and pressure are on opposite sides) you need up to 40 % less plant protection agent and reach 95 % loss reduction.

ADVANTAGES

1.

The most important advantage is the recovery of the chemicals that did not stay on the vine. They are pumped back to the tank and are used again.

In springtime the savings in chemicals can be up to 70% while later during the vegetation period, when the foliage is closed and dense, the savings can still be up to 20%. So throughout the season a saving of approx. 40% is possible.

2.

Less drift factor up to 99% at the beginning of the season. With this machine offering better application, it is possible to work longer before having to refill the tank.

3.

With a tunnel system you are able to work more independent from wind and weather. With more than 15 years of experience in producing of spraying technologies, LIPCO is among the leaders in this technology.

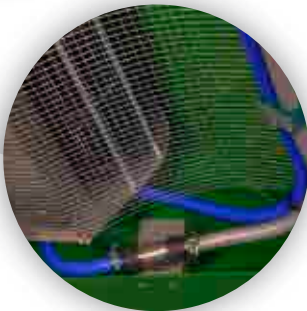
SPRAYING



ATTACHMENT OF FANS
Flexible pendulum suspension



ADJUSTABLE AXLE
When type NV (hydraulic equipment and stroke 2x300 mm optionally). The wheels can be adjusted infinitely variable to the maximum possible width in the row. Thus smooth running.



RECYCLING TROUGH
Collecting tray with injector and screen to filter out big pieces



DRAWBAR
The plant protection agent pump of all GSG trailermount machines is mounted on drawbar. This permits a maximum angle of turn without wide angle cardan shaft.



CROSS-FLOW FANS AS MODULAR SYSTEM
With hydraulic drive (infinitely variable), flat fan venturi nozzles individually adjustable.



OWN HYDRAULIC
By using 6 cross-flow fans or more the hydraulic equipment (pump capacity 1/min.) of tractor is not sufficient anymore that means that a gear drive with 2 oil pumps has to be attached to the drive through of the plant protection agent pump.

RECYCLE

■ GSG A-VM2 - 300/400/500 LITERS



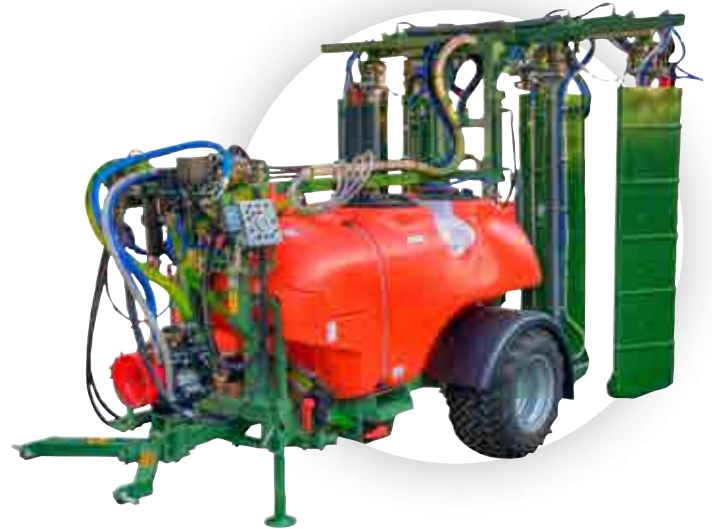
■ GSG AN2 - 600/1.000/1.500 LITERS



■ GSG-NV2 - 600 LITERS

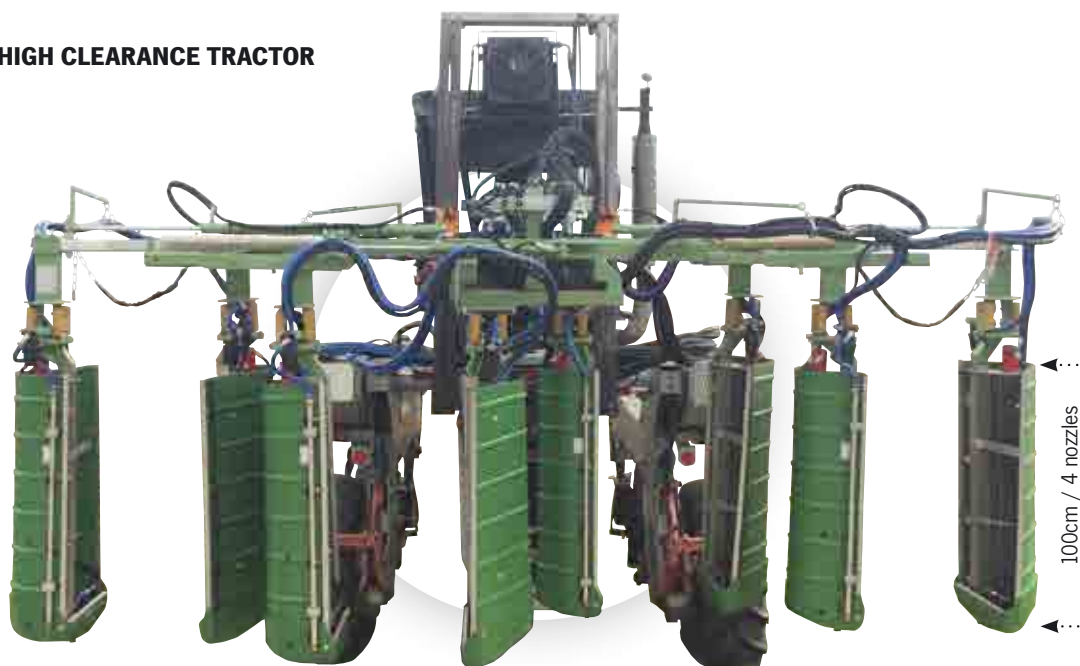


■ GSG-NV2 - 1.000 LITERS



SPRAYING

■ GSG ON HIGH CLEARANCE TRACTOR



■ GSG-NV2 - 1.500 LITERS



■ GSG-NV2 - 2.000 LITERS



TECHNICAL DATA:

	A-VM2 - 300 l.	A-N2 - 600 l.	NV2 - 600 l.	NV2 - 1.000 l.	NV2 - 1.500 l.	NV2 - 2.000 l.
Maximum height of the row (m):	2.20	2.20	2.20	2.20	2.20	2.20
Widening between panels (m):	0.20 - 1.10	0.20 - 1.10	0.20 - 1.10	0.20 - 1.10	0.20 - 1.10	0.20 - 1.10
Options widening panels (m):	1.30/1.50/1.70	1.30/1.50/1.70	1.30/1.50/1.70	1.30/1.50/1.70	1.30/1.50/1.70	1.30/1.50/1.70
Min. width of the row (m):	1.70 - 2.40	1.70 - 2.40	1.40 - 2.20	1.60 - 2.40	1.80 - 2.40	2.00 - 2.40
Pump (liters / bar):	160 / 20	160 / 20	160 / 20	160 / 20	160 / 20	160 / 20
Weight (kg):	425	500 (sans cuve)	880	980	1,170	1,245



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



TECHNICAL DATA:

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

FLEXITREE



SERVICE

YOUTUBE



WEBSITE



FACEBOOK



The CLEMENS Company is characterized by its extremely robust and reliable devices. In addition, we have a large range of spare parts with over 30,000 items, which we can deliver within 24 hours inland. We offer also a customer service that can repair or service your equipment at your location.

For further questions about service and demonstrations, we are happy to help you on the phone

number +49 (0)6571 / 929-0.

ADVANTAGE THROUGH INNOVATION

In close collaboration with universities, educational institutions and customers, CLEMENS is constantly developing new products and ideas. Again and again, we were awarded national and international. In 2009, the founder, Mr. Bernard Clemens, was awarded with the first Golden Mosel Order in

recognition of his commitment to the preservation and promotion of wine culture on the Mosel slopes. Participation in international fairs, continuous product development, development of new markets and expansion of the product range as well as investments in modern machinery will continue to secure the future growth of CLEMENS in Wittlich, Germany.



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C-DRIVE

C-MOTION



C-CONTROL



C-CONNECT


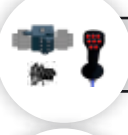


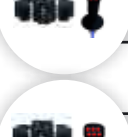
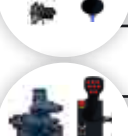




Due to the high demands placed on hydraulics, most narrow track tractors in use today reach their performance limits from their valve and control equipment. With C-DRIVE,

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.

Number of functions	1	2	3	4	5	6	7
 C-CONTROL STANDARD Control unit block, 3 d.a.	●	●	●				
 C-CONTROL STANDARD + VALVE Control unit block, 3 d.a. + 1 d.a.	●	●	●	●			
 C-CONTROL COMFORT Control unit block, 4 d.a.	●	●	●	●			
 C-CONTROL COMFORT + VALVE Control unit block, 4 d.a. + 1 d.a.	●	●	●	●	●		
 C-CONTROL TWIN Control unit block, 2 d.a., 2 s.a. with floating position	●	●	●	●			
 C-CONTROL TWIN + VALVE Control unit block, 2 d.a., 2 s.a. with floating position + 1 d.a.	●	●	●	●	●		
 C-CONTROL COMFORT PLUS Hydraulic block 5 d.a.	●	●	●	●	●		
 C-CONTROL PREMIUM Hydraulic block 7 d.a. also available with hydraulic block 5 d.a.	●	●	●	●	●	●	●

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

C-DRIVE

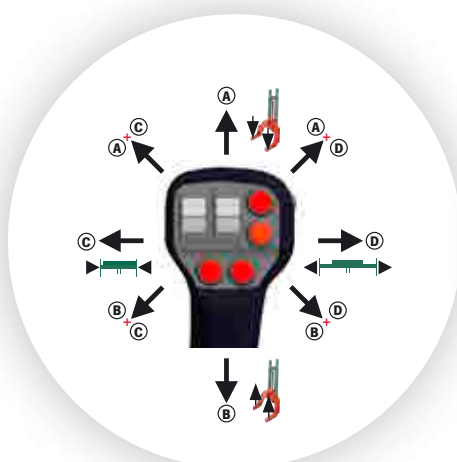


THE EVOLVING HYDRAULIC CONTROL

The hydraulic control system C-CONTROL is operated via a touchscreen and a multifunctional joystick. C-CONTROL not only allows you to control all functions of the CLEMENS attachments, you can also use it for the regulation of certain tractor functions, such as

the engine speed or the PTO drive. C-CONTROL is designed for easy and fast programming and advanced in terms of current and future requirements. Due to its digital connectivity, we can always guarantee technical remote maintenance by the manufacturer, if desired by the user.

Versatile application possibilities, ergonomic design, progressivity: C-CONTROL is the intelligent control system, adapted to the current machines and tractors and prepared for future hydraulic and electrical developments.



**OPERATION EXAMPLE
WITH DEVICES CLEMENS**



**+ CONTROLLED TRACTOR
FUNCTIONS**



WINERY

EQUIPMENT



TANKS AND WINERY EQUIPMENT

Our tanks are a cost-efficient alternative for in-

door and outdoor facilities and are also available as horizontal versions. We provide comprehen-

sive, cost-effective products and services for winery equipment maintenance and repair.





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 we are able to carry out a variety of jobs in highest quality including cutting, plasma burning, turning, milling, drilling, welding, painting as well as assembling of hydraulic, pneumatic and electronic controlling systems. 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 of special machines for individual needs.



FOR SUCCESSFUL VINEYARD MANAGEMENT

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

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.

