

Weeding Machines

LUCY- Auto inter-row weeder:

- One-sided automatic hydraulic weeder is perfect for organic fruit farming in orchards of fruit trees and plantations of berries
- Hydraulic width control
- 2 Versions: front & rear of the tractor
- Many accessories to be assembled on the machine



KLAUDIA- Orchard Finger Weeder

- is intended for destroying weeds in orchards of fruit trees, plantations of berry bushes and vineyards
- Hydraulic width control
- 3 different degrees of finger hardness 700 mm & 540 mm
- 2-, 3- or 4-Discs cultivators
- Version: single or double sided



ALEK Orchard Disc Cultivator

- The ALEK orchard disc plow tackles weeds in orchards quickly and eco-friendly, It smothers weeds by burying them under a layer of soil.
- Offer in double and single-sided
- Hydraulic width control
- 1- or 2-disc cultivator.



AHF - Hydraulic Power Unit 75 L/Min

- Universal Hydraulic system with hydraulic pump+ 75 lt oil tank + cooling radiator designed to run all hydraulic machines from PTO hydraulic pump



ZUZA 3- Hydraulic Inter-row

- is adapted for weeding row of vegetable crops, flowers, lavender, lettuce, rhubarb, youngberry bushes, fruit nurseries, strawberries, and other plants up to a height of **0.5 meters**
- Versions: single, single, double and tripe-row
- Weeding Control by Joyistick's or arm manual
- Mechanical or hydraulic width control
- Three pairs of spring claw (or/and vertical knives)
- 2 sizes of cultivator heads (300 mm and 225 mm)





Automatic Inter-row Weeder LUCY

LUCY— an innovative, hydraulically powered auto weeding machine is intended for destroying weeds in orchards of fruit trees, plantations of berry bushes vineyards and more other. The machine is dedicated for “organic crops”. The use of the weeder allows to reduce significantly or even eliminate the use of herbicides in the fruit production.

- The hydraulically adjustable width allows for use in crops with different row widths.
- Head Diameter 300 mm equipped with 3 vertical knives

- **LUCY Auto weeder is controlled by means of an control wireless panel:**

- An emergency stop push button
- Regulate the width
- Regulate the height



- **The device LUCY is produced in 2 versions:**

1. **LU-01F:** mounted in front of the tractor by 3 point linkage or customized bracket in case no 3-PT
2. **LU-01R:** mounted in rear of the tractor attached by 3 point linkage on universal frame that can be used for other machines as KLAUDIA finger weeder, ALEK Orchard cultivator disc & others

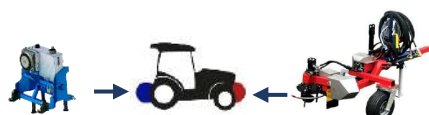
If the tractor lacks enough oil flow (below 30 l/min or 8 gpm), We offer Hydraulic Power Kit AHF



LU-001F



LU-001R



AHF

LU-001F

- Hydraulic pump
- Oil tank with filter
- Oil cooler
- 2 pairs of hydraulic couplers (120 l/min)
- Electro-valve control 2 sections (120 l/min)
- Lower link hooks for 3-point linkage



LU-001R

AHF



- **The weeder is mounted on the front LU-01F or in the rear LU-01R of the tractor**
 - By three point-linkage CAT-2 or
 - Customizable bracket for LU-001F with hydraulic lifting: For front-mounted on a tractors that does not have a 3-point linkage
 - The customized bracket allows lifting the machine around 20 cm and lowering down 20 cm from the centre.
 - The additional hydraulic cylinder connected to control



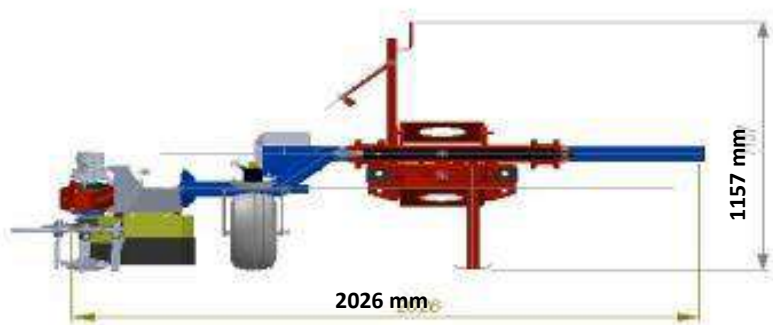
Regulating the sensor for high or low sensitivity for the strip of field between trees. Arriving at the trunk, they automatically move away from it, and after "moving around" the obstacles return to the previous setting. This solution permits to avoid any risk of plant damage.



Technical Specification

Version	1 Sided LU-01F	1 Sided LU-01R
Mounting method to tractor	3-point Linkage- CAT 2 or special bracket (Front)	3-point Linkage- CAT 2 (Rear)
Max Working Width	2026 mm	2010 mm
Min Working Width	1900 mm	1610 mm
Shipment Width	2026 mm	1610 mm
Length	1180 mm	1209 mm
Height	1160 mm	1066 mm
Weeding Depth	10-40 mm	10-40 mm
Weeding Head Size	300 mm	300 mm
Working Speed	1 – 3 km/h	1 – 3 km/h
Oil Requirement (l/min)	30 l/min or External PTO	30 l/min
Weight	180 kg	220 kg

Shipment Data





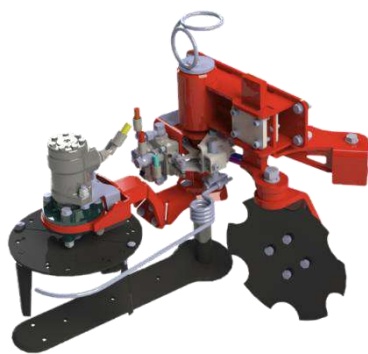
Inter-row weeding machine LUCY - LU-001M

The inter-row orchard weeder LUCY is designed for weed control in orchards of fruit trees, vineyards, nurseries, and berry bushes. No longer any need for herbicide shower: The automatic weeding inter-row with multi-equipment is dedicated to organic farms that can be easily added to work on different soil conditions. The use of the weeder allows reducing significantly or even eliminating the use of herbicides in fruit production. It reduces your costs and environmental impact!

- Many accessories to be assembled on the machine: weeding blade, rotary head, different tiller tines.
- Easily mounted to our universal chassis M01 at the front or at the rear of the tractor by 3-point linkage CAT 2

Accessories:

Inter-row rotary with blade weeder



The LU-01M most efficient configuration equipped with blade and rotary cultivator designed to work with different orchards and variant soil conditions and objectives.

Merging 2 accessories increases the efficiency of weed control by crushing the soil clods and is more effective with the roots of the weeds

- The rotation of the blade up to an angle of 85°
- Working speed up to 8 km/h.
- Blade length L= 600/500 mm
- Rotary head size= 300 mm
- Required Oil Flow: 40-45 l/min

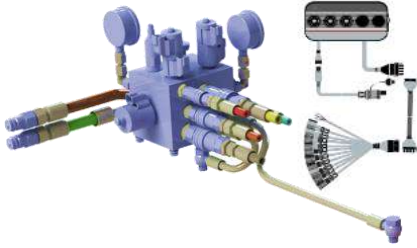
Inter-Row Electro-Hydraulic Group LU-001M



- The adaptable Inter-row weeder tackles diverse soil conditions, and crops thanks to its wide range of mounting options and accessories.
- Delicate sensor technology protect plants for a clean and precise weeding with regulation valve also location control to fit different type of plants

EZ Uni-Flow Centralized Block

Efficiency, Visibility, Ease of Use, Reliability



The All-in-One Electro-Hydraulic Block – Single Sided

Single-sided operation block centralized system for inter-row system management without interruptions

- Easily adaptable configurations for different tools.
- Electrico-magnetic controlled via a control panel with 3 sections
- Enhanced Visibility with Dual Pressure Gauges:
- Option: Wireless Control



Inter-Row Blade Unit



The blade weeding machine is designed to work with different orchards and variant soil conditions due to the efficiency of the sensor, thanks to the control of the sensor sensitivity for high-precision weeding.

- The rotation of the blade up to an angle of 85°
- Working Speed: 6-10 km/h
- Blade length L= 600/500 mm
- Required Oil Flow: 10-15 l/min

Optional for blade:



The 3 tines for the blade are mounted at the blade beam to lift the roots and the cloddy soil.



The moldboard for blade is mounted at the end of the blade beam to lift and loosen soil that has been compacted. Also overturns weeds, and exposes topsoil.

Inter-row Rotary Weeder



The rotary harrow cultivator is equipped with 3 vertical blades. It is designed to work with moderate soil conditions such as silt and clay soils.

- The angle rotation of the rotary harrow head up to an angle of 85°
- Working speed up to 4 km/h.
- Rotary head size= 300 mm
- Débit d'huile requis: 30-35 l/min

Adjustable Disc Plow



The disc Plow is placed in front of the blade, thanks to which the soil is loosened before the blade, which accelerates the effectiveness of the blade.

- The height and the angle are adjustable
- D=Ø 300 mm



Adjustable Disc Cultivator

The disc cultivator is placed in front of the blade weeder, thanks to which the blade penetration into the soil is facilitated and defines an edge for the weeding area

- The height and the angle are adjustable
- D=Ø 300 mm

Tiller tine + chisel plough



The tiller tine with a chisel point mounted before the blade or rotary harrow. For working in extreme soil conditions, recommended to work with an inter-row rotary cultivator as also protecting the working column

FRAME: M01



- Reversible chassis: Mounted on the rear and on the front of the tractor
- Mounted by 3-point linkages CAT 1 & 2
- Hydraulic width displacement: Produced in both sided single or double sided from 1.4 m, up to 2.2 meters wide.
- Adjustable rubber wheels to regulate the height of the machine.
- Stand for storage and transport positions
- Extension By 45 cm

Hydraulic Power Unit AHF-01



The PTO-driven AHF-01 hydraulic power unit delivers a reliable and efficient source of hydraulic power for diverse machines requiring high oil flow. It offers up to 70 L/min of additional flow. Designed to provide additional hydraulic power to various orchard machines, such as the inter-row weeder, tree shakers, and viticultural machine, which may not receive sufficient oil flow from the tractor's hydraulic system.

High-quality components:

- Oil tank capacity with a filter system
- A hydraulic pump
- An oil cooler with thermostat
- 2 pairs of hydraulic couplers 120 L
- Directional Control Valve, 2 Sections with 120 l/min.
- Optional lower link hooks compatible with CAT 1, 2, and 3
- PTO Shaft



JAGODA JPS Ltd manufactures agricultural machinery that adheres to both Polish safety regulations and European Community standards





Mechanical Inter-row weeding machine KLAUDIA

Orchard finger weeder KLAUDIA is adapted to work in orchards and crops where side weeding is required and it is perfect for vineyards, orchards, and berry fields. The inter-row weeder is equipped with a finger rubber hoe, thanks to which the soil and the weeds are loosened easily between the plants and around the trees, and finger roller cultivator is placed in front of the finger rubber star, thanks to which the soil is loosened before the finger star.

Finger rubber hoe :



The KLAUDIA model inter-row weeder is designed for all types of crops and tractors. It is ideal for fast mechanical weeding between rows. Using the rubber finger star is a good solution for working around the plants.

- The finger weeder size is 700 mm and 540 mm with 3 different degrees of hardness for different crops and soil conditions.
 - Finger rubber star/ Green: soft hardness (for young plants)
 - Finger rubber star/ Orange: medium hardness (for mature plants)
 - Finger rubber star/ Red: hard hardness (for stony and hard soil)
- Can be installed on all common weeding systems.

Finger roller disc:



The finger roller is placed in front of the cultivating finger head, thanks to which the soil is loosened before the finger weeder will cultivate, which increases the effectiveness of the head's operation.

- Easy installation to add 3 or 4 discs for wide cultivating area
- Disc diameter: 425 mm

FRAME:

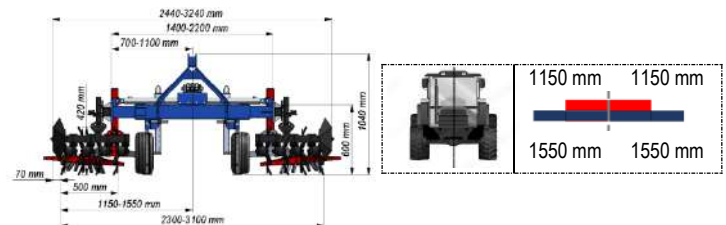
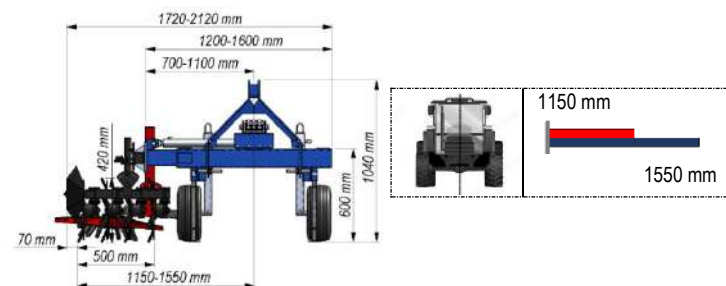


- Reversible chassis: Mounted on the rear and on the front of the tractor
- Mounted by 3-point linkages CAT 1 & 2
- Hydraulic width displacement: Produced in both sided single or double sided from 1.72 m, up to 3.10 meters wide.
- Adjustable rubber wheels to regulate the height of the machine.
- Stand for storage and transport positions
- The chassis can be used to inter-row rotary weeder LUCY, disc cultivator ALEK, and others.

Configurations & Dimensions

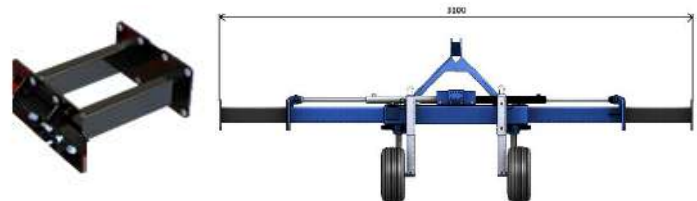
KLAUDIA X1	HP				
Model	Min	Max	Size	No	Kg
KL-001-05	30	100	54 Ø	2	200
KL-001-07	30	100	70 Ø	2	210
KL-001-15	30	100	54 Ø	3	210
KL-001-17	30	100	70 Ø	3	220
KL-001-A5	30	100	54 Ø	4	220
KL-001-A7	30	100	70 Ø	4	230

KLAUDIA X2	HP				
Model	Min	Max	Size	No	Kg
KL-002-05	30	100	54 Ø-54 Ø	2-2	290
KL-002-07	30	100	70 Ø-70 Ø	2-2	310
KL-002-15	30	100	54 Ø-54 Ø	3-3	310
KL-002-17	30	100	70 Ø-70 Ø	3-3	330
KL-002-A5	30	100	54 Ø-54 Ø	4-4	330
KL-002-A7	30	100	70 Ø-70 Ø	4-4	350



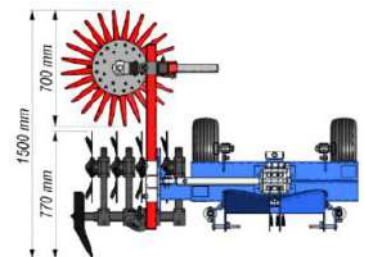
Extension 40 cm

Version	Extension	Max Width
KLAUDIA X1	400 mm	Max width 2420 mm
KLAUDIA X2	2 x400 mm	Max Width 4000 mm



Technical Specification:

Version	1-Sided X1	2-Sided X2
Min Width (mm)	1 720 mm	2 300 mm
Max Width (mm)	2 120 mm	3 100 mm
Working Speed	8 - 15 km/h	8 - 15 km/h
Height	1040 mm	1040 mm
Length	1500 mm	1500 mm



See machine in action





ALEK Side-row Orchard Disc Harrow

The ALEK orchard disc plow tackles weeds in orchards quickly and eco-friendly, especially during side-row cultivation. This mechanical implement is ideal for farmers who prefer non-chemical weed control. It smothers weeds by burying them under a layer of soil. The plow's sharp discs effectively sever grass blades while simultaneously transferring soil between plants.

Main features

- Robust Construction: Handles various soil types and conditions.
- Disc Options: Choose from single or double discs for optimal performance
- The machine is produced with single and double-sided
- Hydraulic Width Adjustment: Easily adjust the working width from 1.7 m to 3.3 m (single-sided or double-sided) for efficient weed control in varying row spacings. Additional 0.9 m extension frame for double-sided.
- Adjustable Working Depth with integrated tilt adjustment and variable angle of attack for precise weed control: Set the working depth between 5 and 12 cm to suit your specific needs.
- Achieves high working speeds and covers a large working width for faster weed management.
- Storage and Transport Stand



Technical Specification

Version	1-Sided	2-sided
Mounting method (front & rear)	3-point Linkage CAT 2	3-point Linkage CAT 2
Min Width	1700 mm	2500 mm
Max Width	2100 mm	3300 mm
No Of Disc Cultivator	1 or 2	1 or 2
Shipment Length	700 mm	700 mm
Working Speed	Up to 12 km/h	up to 12 km/h
Working/Shipment Height	1040 mm	1040 mm
Diameter of the disc	425 mm	425 mm
Shipment width	1700 mm	1700 mm
Weight	190 kg	250 kg










The PTO-driven **AHF-01 hydraulic power pack** delivers a reliable and efficient source of hydraulic power for diverse machines requiring strong drives. It offers up to 70 L/min of additional flow. Designed to provide additional hydraulic power to various orchard machines, such as the inter-row weeder, tree shakers, and viticultural weeding machine, which may not receive sufficient oil flow from the tractor's hydraulic system.

Achieve Peak Performance with the AHF-01, the All-in-One, Most Advanced PTO Hydraulic Power Pack

- **Robust construction:** Engineered for durability and reliable operation in diverse and demanding conditions.
- **Optional lower link hooks** compatible with CAT 1, 2, and 3, enabling the attachment of various agricultural machines weighing up to 600 kg to the rear of the hydraulic unit.
- **High-quality components:** Each element is carefully selected to guarantee optimal performance and longevity:
 - Oil tank capacity with a filter system
 - A hydraulic pump
 - An oil cooler with thermostat
 - 2 pairs of hydraulic couplers
 - Directional Control Valve, 2 Sections
 - Optional lower link hooks compatible with CAT 1, 2, and 3
 - PTO Shaft



AHF	HP-CV 				 Oil 			
Model	Min	Max	CAT	RPM 1.3 / 8" PTO profile 6 splines	l/min – gpm	CAT	cm L*W*H	Kg Total
AHF-01	20	100	1 & 2	220-540	Max: 70 - 18	1, 2 & 3	105x105x120	250





Single-row + internal hydraulic system

Single-row Automatic

Single-row

Hydraulic Vegetable Weeder Machine ZUZA 3

ZUZA 3 machine is designed for mechanical weed control in crops growing in rows, at a spacing to allow passage of a tractor on a cultivated lane. The machine is perfect for “organic farming”, can significantly reduce or even eliminate the use of herbicides in the orchard. This reduces the cost of maintenance and facilitates keeping these crops.

- ZUZA 3 is adapted for weeding row of vegetable crops, flowers, lavender, lettuce, rhubarb, asparagus and such young currants, strawberries, young cannabis and other plants up to a height of **55 cm**
- Vegetable weeder ZUZA 3 equipped with hydraulic or mechanical displacement to work with different distance between rows

Specification of rotor head cultivators for all versions:

- Rotor heads cultivator has There are two sizes of rotor head cultivator: small 225 mm and big 300 mm
- 3-pairs of spring claw or/and vertical knives that destroy weeds. The knives recommended to be used on stony and hard soil.
- The working depth is set by changing the relative position of the rotor head and the support plate, which copies the weeding area from 1 cm to 4 cm
- Speed regulator of the rotary heads
- Reversible rotary motion
- Adjustable sweep cover of rotor heads

D= 300 mm / Springs



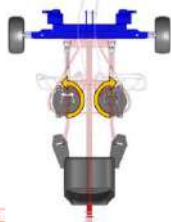
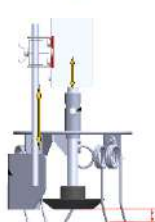
D= 225 mm / Springs



D= 300 mm / Knives



D= 225 mm / Knives



See web page



Rhubarbs pumpkins lettuces Lavenders strawberries Young Berry Bushes: Currants, Aronia, Raspberries Asparagus Peppers Cauliflowers Artichokes Aubergines Carrots Onions Potatoes

Single-Row Vegetable Weeder ZUZA 3

ZU-001

- **EXCULISVE DESIGN**
- **EFFICIENT**
- **FLEXIBLE**
- **FAST**



Tractor Pump
min 20 l/min



Shifting frame by 40 cm
Mechanically



30 – 90 HP



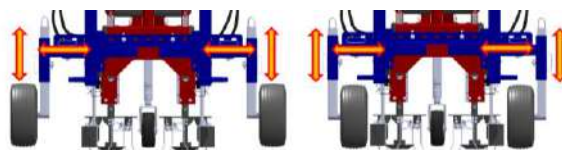
250 Kg



2 Rotor Heads

Equipped and Features:

- Adjustable seat – equipped with seatbelt, wheels, feet, and handles
- Speed regulator valve
- Mechanical shifting by **40 cm**
- Different size and type of rotor heads
- Adjustable weeding depth, and sweep cover
- Reversible rotary motion



Working Position

Transport Position

ZU-001A

with joysticks control



2 joysticks



Tractor Pump
min 30 l/min



Shifting frame by 40 cm
Mechanically



30 – 90 HP



250 Kg



2 Rotor Heads

Additional Equipment To ZU-001

- With joysticks control instead mobile arms, 12V Electrics plug
- 2 hydraulic cylinders

To eliminate the requirement of physical strength and increase the working hours on the device

ZU-001F

with internal hydraulic kit



Internal
Hydraulic Kits



Shifting frame by 40 cm
Mechanically



30 – 90 HP



450 Kg



2 Rotor Heads

Additional Equipment To ZU-001

- Internal hydraulic kit: pump+ 75 litres oil tank + cooling radiator
- Adjustable wider wheels

Eliminating the overheat risk as the cooling system inside the machine that maintains the proper temperature of the hydraulic system, and increase the working hours on the device with high efficiency without using the hydraulic pump of the tractor's

Optional



With Joysticks' control

See web page



Rhubarbs pumpkins lettuces Lavenders strawberries Young Berry Bushes: Currants, Aronia, Raspberries Asparagus Peppers Cauliflowers Artichokes Aubergines Carrots Onions Potatoes

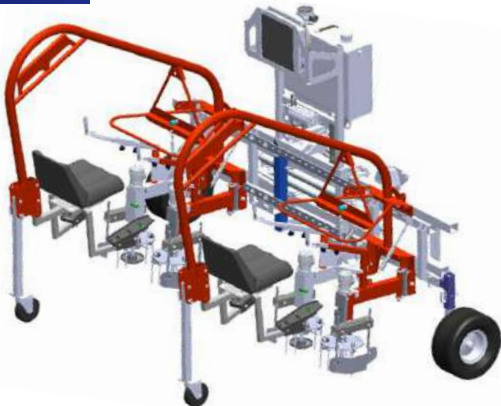
2-Row Vegetable Weeder ZUZA 3

ZU-002

2-ROW

ZU-002F

with internal hydraulic kit



Internal Hydraulic Kits Or Tractor Pump min 40 l/min



Hydraulic or Mechanical shift



30 – 90 HP



470 Kg
670 Kg With Hydraulic kits



4 Rotor Heads

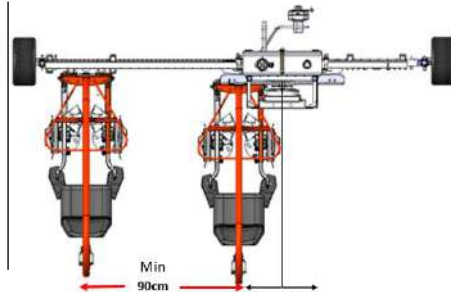
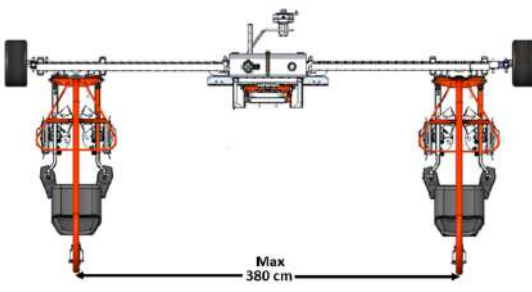
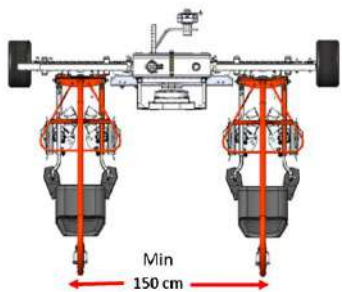
Equipped and Features:

- Speed regulator valve per each frame
- Mechanical displacement between rows (min: 0.9 m to 3.8 m)

Optional

- Internal hydraulic kit: pump+ 75 litres oil tank + cooling radiator
- Hydraulic displacement between rows (min: 0.9 m to 3.8 m)
- With Joysticks' control

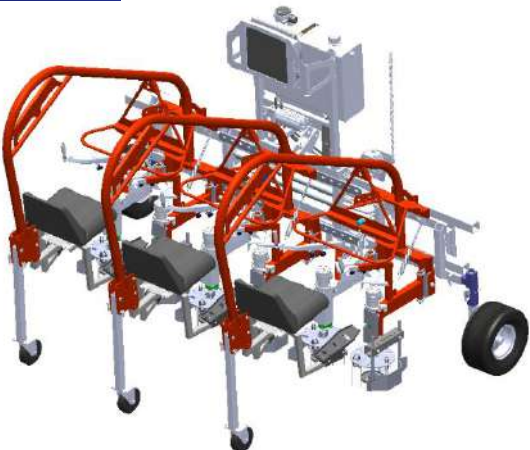
The configuration of the machine can fit with different distance between rows by using hydraulic cylinders



3-Row Vegetable Weeder ZUZA 3

ZU-003

3-ROW



Internal Hydraulic Kits



Hydraulic or Mechanical shift



50 – 120 HP



1000 Kg



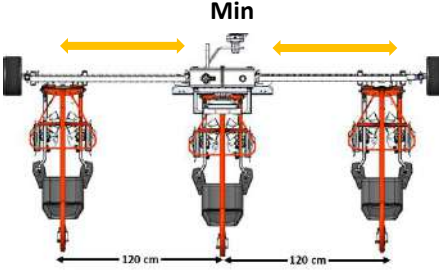
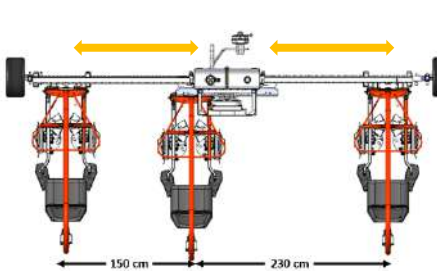
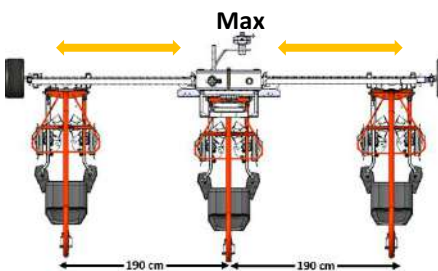
6 Rotor Heads

Equipped and Features:

- Internal hydraulic kit: pump+ 75 litres oil tank + cooling radiator
- Speed regulator valve per each frame
- Mechanical displacement between rows (min: 0.9 m to 3.8 m)

Optional

- Hydraulic displacement between rows (min: 0.9 m to 1.9 m)
- With Joysticks' control



Technical Specification

Version	Single-Row	Double- Rows	Triple -Row
Mounting method to tractor	3-point linkage Category 2 (rear of the tractor)		
Displacement	Mechanical	Hydraulic	Hydraulic
Length (cm)	222 cm	222 cm	222 cm
Height (cm)	215 cm	215 cm	215 cm
Shipment Width (cm)	124 cm	240 cm	260 cm
Max Working Width (cm)	155 cm	300 cm	430 cm
Weeding Depth	1-4 cm	1-4 cm	1-4 cm
Weeding Head Size (cm)	22.5 or 30 cm	22.5 or 30 cm	22.5 or 30 cm
Working Speed	1 - 3 km/h	1 - 3 km/h	1 - 3 km/h
Output	0.5 – 1 ha/h	1 – 2 ha/h	1.5 – 3 ha/h
Staff Required	Operator + 1	Operator + 2	Operator + 3
Weight	250 kg	470 kg	1000 kg



ZU-001

Watch Machine In Action



ZU-001A

Watch Machine In Action



ZU-003

Watch Machine In Action

