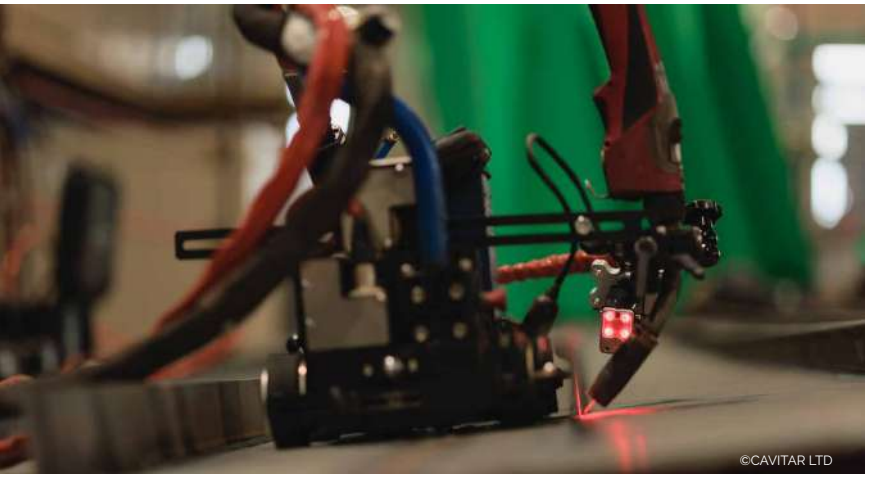
SERVISOUD

Europe Technologies group

La FRENCH FAB

# SERVIBOT



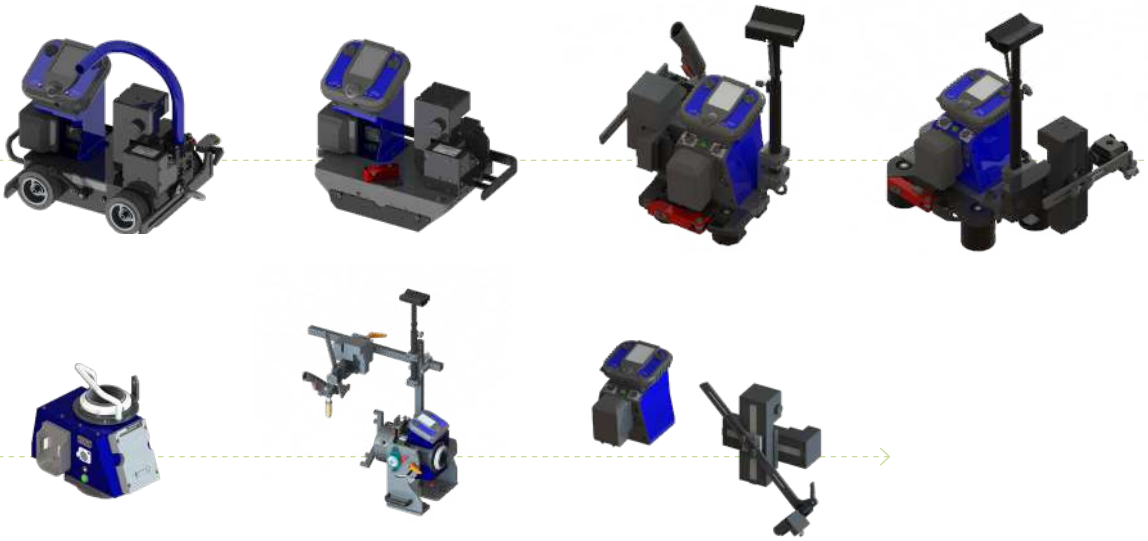


SERVIBOT range - Mechanised welding equipment, programmable autonomous welding carriages, welding function display...

# SERVIBOT FAMILY

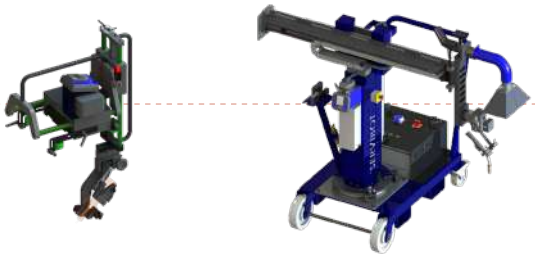
## ORIGINAL RANGE

## EVO RANGE



## SERVICAM RANGE

## MODULAR MECHANISATION



# CONTENTS





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# ABOUT US

**SERVIBOT** is a range of products that enables you to build your own mechanisation system for welding, cutting and other related processes.

Part of the range consists of connected, standalone welding carriages, programmable in all positions.

All SERVIBOT system equipment are designed and manufactured in France by SERVISOUD.

They are simple to use, and designed to increase productivity gains, produce high-quality welds and ensure operator comfort.

**SERVISOUD** designs and manufactures custom welding carriages and mechanised solutions based on our SERVIBOT **product range** for all types of project (shipyards, steel structures, silos, etc).

We also offer a welding equipment rental service **(SERVILOC)** boasting a complete range of welding equipment: MIG/MAG welding, TIG, ARC, plasma cutting, fume extraction, positioning, etc.

We also provide welding equipment maintenance services (**SERVITRUCK**).

Lastly, we offer ceramic weld backings (**SERVILATTES**) along with a dedicated welding wire service (**SERVIFIL**).

SERVISOUD is a brand of the **EUROPE TECHNOLOGIES group**.

With more than 30 years of experience in this field, the EUROPE TECHNOLOGIES group provides expertise for the industrialisation, manufacturing and maintenance of composite, metal and plastic parts and subassemblies.

The project is supported by :

# HISTORY OF SERVISOUD WELDING CARRIAGES

During the 1990s, SERVISOUD custom designed and manufactured welding carriages to its customers' requirements.

During the 2000s, SERVISOUD designed an initial standard range of welding carriages.

Easy to carry, autonomous (battery supply) and simple to use, SERVISOUD welding carriages are popular due to their productivity gains and ergonomic welder comfort.

This historic range, found in many workshops, has now been replaced by the SERVIBOT range. It comprised the following carriages:

GLUMAG®

MAGLIGHT

POLYMAG

FLATMAG 2

RAILMAG®

FABRIQUÉ EN FRANCE

# WHY MECHANISE THE WELDING PROCESS?

## Productivity

Mechanising the welding process makes it possible to:

1. **Increase the arc-on time**, i.e. the actual welding time during a shift. This time is greatly increased on long weld applications where welds are produced continuously with no stop/start.
2. **Limit the risks of defects and reduce the need for repairs.**
3. On certain applications, to **optimise welding settings and deposit rates, and increase welding speeds.**

## Quality

Mechanisation ensures greater control over weld quality. Weld beads are repeatable and more uniform, thus improving the final appearance.

SERVISOUD welding carriages **reduce the rate of defects**, specifically by reducing the number of stop/start actions compared to manual welding.

Mechanised welding makes it possible to fine-tune the heat input on workpieces, thus limiting deformations.

## Safety

Lastly, mechanising the welding process increases operator safety at their workstations.

Our welding solutions limit **exposure to heat, UV radiation and fumes**, as the weld operator is further from the torch.

Their mobility and autonomy means these welding carriages help weld operators **avoid a static position, thereby reducing the work's arduous nature and the risks of developing musculoskeletal disorders**.

# INDUSTRIAL MARKETS

Naval | Energy | Boiler making | Agriculture | Railways



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# ORIGINAL RANGE

18 V

Power supply

External

Simple interface

Additional axes
(Up to 3)

Manual slides

Slides and oscillators
Historic range
e.g.: SwingMag, oscillator
RockMag

Displacement axes

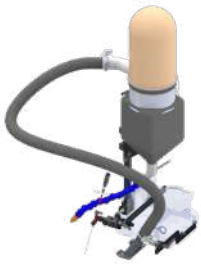
Wheels

Flexible track

Complete range of track

# KITS

MIG / MAG



Submerged arc welding

Oxycutting

Plasma cutting

## Also in the **ORIGINAL RANGE**

Beveller
Manual plasma



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# CARRIAGE COMPOSITION

## Console with simple interface

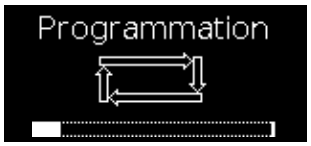
This carriage comprises the following elements:

- A versatile power supply
- **Connectors**:
  - **Arc detection sensor**: carriage start-up is controlled by the welding arc
  - **Trigger**: enables the carriage to control the start-up of welding or any other dry contact *(option of 2 triggers on request).*
  - **Accessory:** to connect a power supplied accessory from the SERVIBOT range


This simple, intuitive interface can be used to:

- Programme welding length or **intermittent** welding (up to 99 iterations).
- Set the language (French/English) and length units (cm or inch).
- Display the **actual carriage speed;** can be adjusted in dynamic mode.





# The various bases: displacement axis

The magnetic wheel base can work in any position on the steel sheet.

4-wheel drive system is used to optimise traction on the workpiece.

## WHEEL BASE

The wheel base moves directly over the workpiece.

Two adjustable arms fitted with copper rollers guide the wheel base:

- Directly over the workpiece for fillet welds
- Along a profile attached parallel to the weld seam
- Along a magnetic guiderail

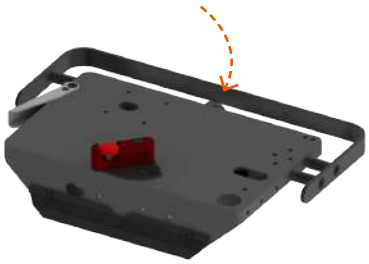
The crabbing effect maintains the trajectory against the guide.

## FLEXIBLE TRACK BASE

The rack and pinion system provides a direct drive, offering excellent forward motion stability and strong traction. The guide rollers on the flexible track are adjustable, making it possible to move the carriage over concave and convex workpieces, or over pipes with minimum diameter DN1200.

The base is accompanied by a range of guide tracks:

A clutch system allows the carriage to move freely along the track to position it over the work area.



Standard or high-temperature flexible magnetic track

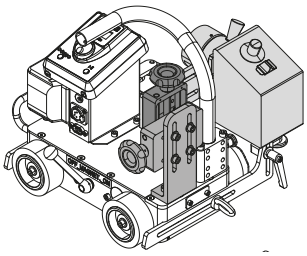
# Additional and positioning axes

## MANUAL SLIDE

Slide used to manually position the tool laterally or vertically. Numerous tapping holes provide great assembly and adjustment flexibility.

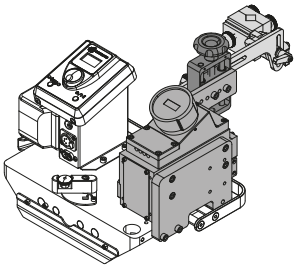
## MOTORISED AXES

ORIGINAL range carriages are compatible with historic positioning and oscillation accessories via a 14V power supply available on the simple interface console.



GLUMAG® Original

ROCKMAG pendulum oscillator + Y/Z dual manual slides



TRACKMAG® ORIGINAL

SWINGMAG Y oscillator or STEADYMAG + Z manual slides



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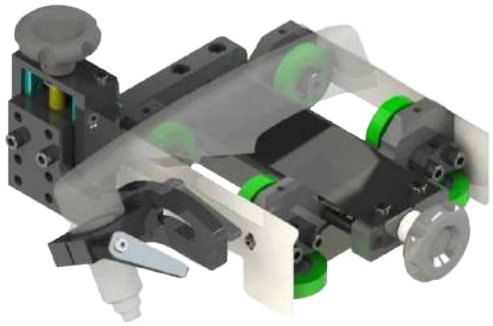
# The BEVELLER



Beveller

## TECHNICAL CHARACTERISTICS

| | MANUAL PLASMA BEVELLER |
|---|---|
| Displacement | Manual - no drive |
| Hold | Permanent magnet |
| Dimensions (L x W x H) | 275 x 235 x 150 mm |
| Weight | 3 kg |
| Angle adjustment | 0 - 45° |
| Type of bevel | Single V-groove, double V-groove, single V-groove with heel |
| Side adjustment | 25mm |
| Torch height adjustment | 38mm |

## COMPATIBLE WITH

| | HYPERTHERM | | ESAB | LINCOLN | UNIVERSELLE |
|---|---|---|---|---|---|
| Type of welding station | PMX 105 | PMX 125 | Cutmaster 100 | Tomahawk 1538 | Ø20 to Ø32 mm |
| Type of torch | Duramax manual 75° | Hyamp Duramax manual 85° | SL100 75° | LC105 | - |
| Beveller part number | SV 96500 1100 | | | | |
| Optional torch support | Included | SV 00374 1000 | SV 00374 2000 | Included | SV 00374 3000 |

# BEVELLER
# PLASMA CUTTING

# Configurations
# GLUMAG® ORIGINAL

1

GLUMAG® ORIGINAL
Standard

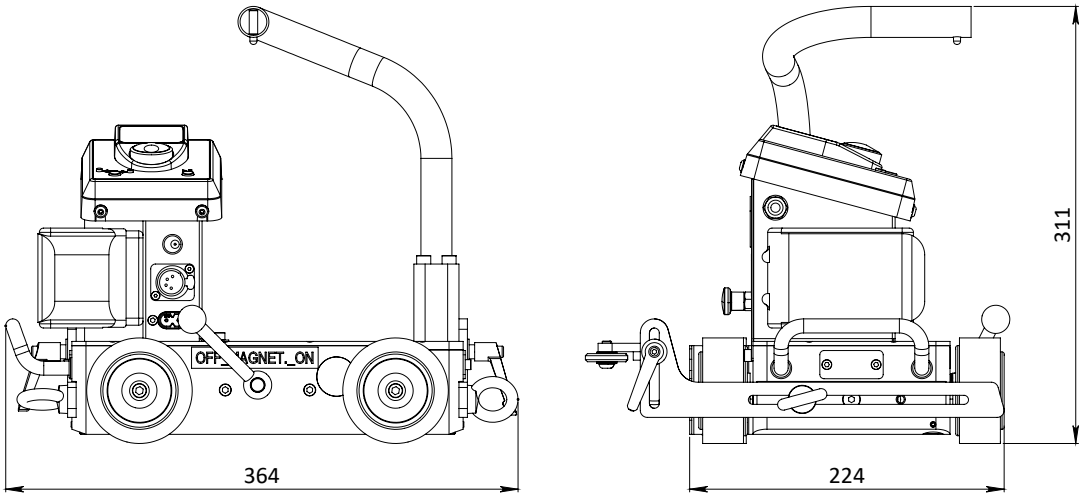
2

GLUMAG® ORIGINAL
Oxy version

| | DESIGNATIONS | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|
| 1 | Y/Z dual manual slides - MIG/MAG welding kit | SV 923 S MM 11A | SV 923 S MM 00A |
| 2 | Oxycutting kit comprising: 2 stainless steel adjuster arms; nozzle holder diameter 32 mm; 3 hoses; gas manifold with shut-off valves and quick connectors | SV 923 S 00 11 B | SV 923 S 00 00 B |

*EVO range accessories are not compatible with the ORIGINAL range.*

## DIAGRAMS




GLUMAG® ORIGINAL

## WELDING POSITIONS


## TECHNICAL CHARACTERISTICS

| | GLUMAG® ORIGINAL |
|---|---|
| Drive | 4-wheel drive |
| Speed range | 1 - 180 cm/min. (fully charged battery) |
| Battery supply | Li-Ion - 18 V - 5Ah |
| Battery life *(with standard wheels Ø75 mm)* | Min. 10 hours* |
| Magnet clamping force | 28 kg |
| Torch holder | Quick-fit universal |
| Guide system | Crabbing bearing rollers |
| Dimensions (L x W x H) | 364 x 224 x 311 mm |
| Weight (with battery) | 9.1 kg** |
| Automatic carriage start during welding | Arc detection (no generator connection) or torch trigger connection |
| Power supply accessories | 14V jack plug<br>Compatible with accessories from the historic range (e.g.: SteadyMag / SwingMag / RockMag / etc.) |

**Carriage alone, no historic motorised accessory*

***As per configuration 1: GLUMAG® ORIGINAL Standard*



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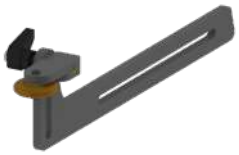
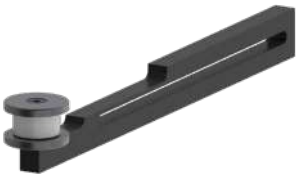
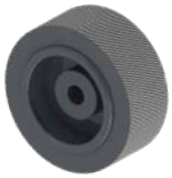
# Accessories for **GLUMAG® ORIGINAL**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Standard full crabbing arm (250 mm) |  | SV 00232 0000 |
| Long full crabbing arm (400mm) |  | SV 00238 0000 |
| Extra long full crabbing arm (750 mm) |  | SV 00239 0000 |
| Full cornice arm kit x2 |  | SV 00066 1100 |
| Flexible cornice guide rail 1500mm |  | SV 96100 0008 |
| Standard 75 mm wheels |  | SV 00001 1100<br>or by sets of 4<br>SV 00001 1100 - SET 4 |
| Wheels Ø100 mm* |  | SV 00002 1101 |

| | | |
|---|---|---|
| Integration kit<br>for wheels Ø100 mm*<br>(2 chocks; 4 wheels; 4 spacers) |  | SV 00370 0000 |
| Knurled aluminium wheels<br>(preheating and cutting)<br>Ø75 mm |  | SV 00003 0001 |
| Standard wheel guards |  | SV 00117 0001 |
| Wheel guards<br>Ø100 mm |  | SV 00241 0000 |
| Bundle support for handle |  | SV 00242 0000 |
| Bundle support mast and<br>GLUMAG®interface |  | SV 00300 0000 |

**While the GLUMAG® is fitted with 100 mm wheels, the carriage only operates in the flat weld position (PA) (inactive magnetisation)*



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# Configurations
# TRACKMAG® ORIGINAL

1

TRACKMAG® ORIGINAL
Standard

2

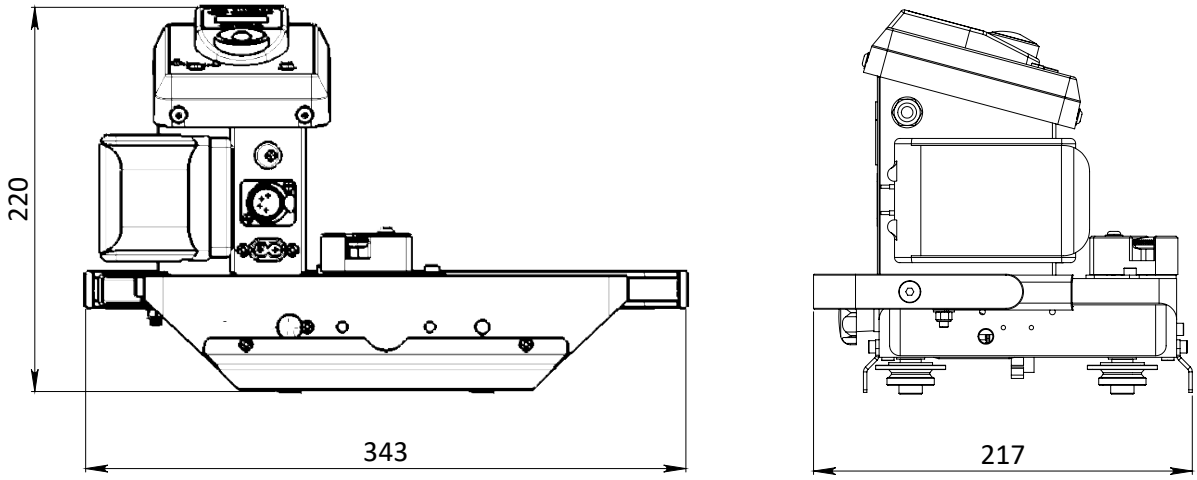
TRACKMAG® ORIGINAL
Oxy version

| | DESIGNATIONS | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|
| 1 | Y/Z dual manual slides - MIG/MAG welding kit* | SV 924 S MM 11A | SV 924 S MM 00A |
| 2 | Oxycutting kit comprising: 2 stainless steel adjuster arms; nozzle holder diameter 32 mm; 3 hoses; gas manifold with shut-off valves and quick connectors* | SV 924 S 00 11 B | SV 924 S 00 00 B |

*EVO range accessories are not compatible with the ORIGINAL range.*

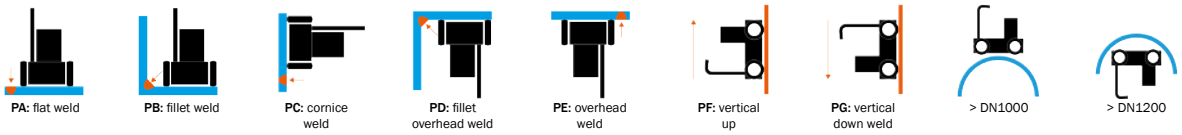
**2 rail end stops*

## DIAGRAMS




TRACKMAG® ORIGINAL - Standard

## WELDING POSITIONS




## TECHNICAL CHARACTERISTICS

| | TRACKMAG® ORIGINAL |
|---|---|
| Drive | Clutch pinion |
| Speed range | 1 - 180 cm/min. (fully charged battery) |
| Battery supply | Li-Ion - 18 V - 5Ah |
| Battery life | 10 hours* |
| Torch holder | Quick-fit universal |
| Guide system | Flexible or rigid track |
| Dimensions (L x W x H) | 343 x 217 x 220 mm |
| Weight | 7 kg** |
| Automatic carriage start during welding | Arc detection (no cable) or torch trigger connection |
| Power supply accessories | 14V jack plug<br>Compatible with accessories from the historic range (e.g.: SteadyMag / SwingMag / RockMag) |
| Safety | Rail limit stops |

*Carriage alone, no historic motorised accessory*

***As per configuration 1: TRACKMAG® ORIGINAL - Standard*



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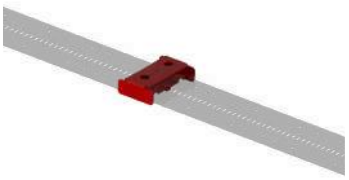
# Accessories for **TRACKMAG® ORIGINAL**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Bundle support mast |  | SV 00097 1100 |
| Full tubular handle |  | SV 00243 0000 |
| Standard magnetic flexible track 1500mm |  | SV 96100 0001 |
| Standard half-length magnetic flexible track 750mm |  | SV 96100 0003 |
| High-temperature flexible magnetic track 1500mm |  | SV 96100 0002 |
| Half-length high-temperature magnetic flexible track 750mm |  | SV 96100 0004 |
| Flexible track with switchable magnets 1500mm |  | SV 96100 0009 |

| | | |
|---|---|---|
| Pneumatic flexible track<br>1500mm |  | SV 96100 0005 |
| Standard magnetic stiffened track<br>1500mm |  | SV 96100 0006 |
| Set of 2 rail end stop sensors (factory assembly) |  | SV 00244 0000 |
| Rail end stop |  | SV 00245 0000<br>or by sets of 2:<br>SV 00245 0000 - SET 2 |
| Additional rail end magnetisation |  | SV 00226 0000 |
| Additional high-temperature rail end magnetisation |  | SV 00228 0000 |

*ORIGINAL range accessories are not compatible with the EVO range.*



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# EVO RANGE

Simple

SERVIBOT RC

Additional axes (Up to 3)

Interface

Manual

18 V

Power supply

Linear drive

External

Angular drive

Displacement axes

Wheels

Flexible track

Rigid rail

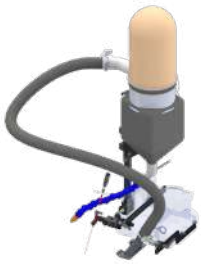
Rotative

Complete range of track

Complete range of rail

## KITS

MIG / MAG



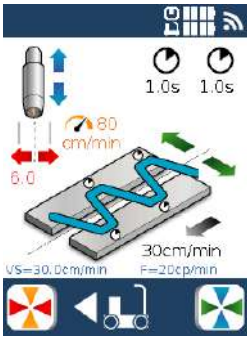
Submerged arc welding

Oxycutting

Plasma cutting

## PACKAGES

### EVO PACKAGE




*Basic functions*

### EVO ADVANCE PACKAGE

*Innovative tracking solutions*

### EVO PRO PACKAGE

*Communication and external control*



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# CARRIAGE COMPOSITION

## A single console

The feature common to the SERVIBOT range is the connected CPU. This includes all the basic components required to operate the system:

- Wireless connectivity: remote updates, remote control
- A versatile power supply
- A storage and charging stand for the wireless remote control (if any)
- **Connectors**:
  - **Arc detection sensor**: carriage start-up is controlled by the welding arc
  - **Trigger**: enables the carriage to control the start-up of welding or any other dry contact.
  - **Accessory:** to connect a controlled or power supplied accessory from the SERVIBOT range
- **2 Allen keys**

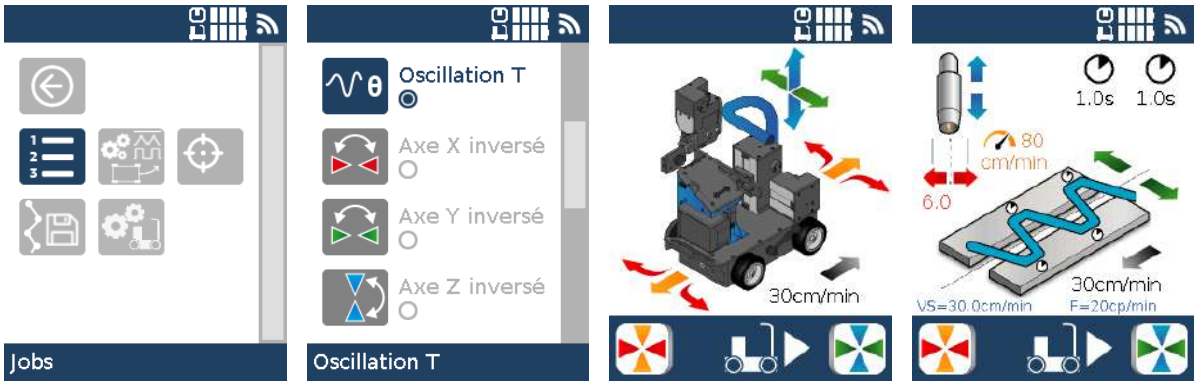
## SERVIBOT RC controller

The SERVIBOT RC wireless remote control has been designed for intuitive, user-friendly control of multi-axis solutions.


+ Built-in magnets clamp the tool on metal workpieces
+ Neck strap carrying holder

### SERVIVBOT RC CONTROLLER HMI

Intuitive interface – can be configured to fit the desired application:




The SERVIBOT RC wireless remote control must be used to drive any configuration with 2 or more axes. Wireless control provides the operator with real comfort whatever the operation.

## The various bases: displacement axis

### STANDARD WHEEL BASE

The dual drive wheel base moves directly over the workpiece. The SERVIBOT RC controller makes it possible to move in several directions.

Two adjustable arms fitted with copper rollers guide the wheel base:

- Directly over the workpiece for fillet welds
- Along a profile attached parallel to the weld seam
- Along a magnetic guide rail available in the SERVIBOT accessories catalogue

The crabbing effect maintains the trajectory against the guide.

The magnetic wheel base can work in any position on the steel sheet.

A 4-wheel drive system is used to optimise traction on the workpiece.

### A word from the expert:

***"The wheeled base creates a highly versatile, quick-to-set-up carriage. Moving directly over the workpiece allows the carriage to adapt to its profile, thereby minimising stickout variations at the level of the torch."***



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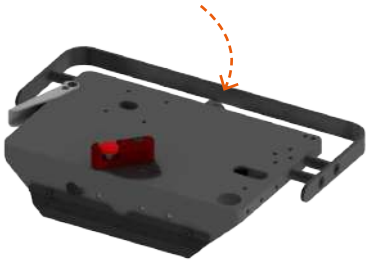
## FLEXIBLE TRACK BASE

The rack and pinion system provides a direct drive, offering excellent forward motion stability and strong traction. The guide rollers on the flexible track are adjustable, making it possible to move the carriage over concave and convex workpieces, or over pipes with minimum diameter DN1200.

There is a range of guide tracks available: flexible or rigid, magnetised or pneumatic, etc.

A clutch system allows the carriage to move freely along the track to position it over the work area.



Standard or high-temperature flexible magnetic track

### A word from the expert:

***The flexible track base is very convenient to use for multi-pass applications: once the guide tracks are in place, the clutch system makes it possible to return to the start of the welding zone after each pass quickly and easily."***

## RIGID RAIL BASE

The rack and pinion system provides a direct drive, offering excellent forward motion stability and strong traction.

The rigid rail, height 60 mm or 90 mm, is self-standing.

During operation, it is not necessarily in contact with the workpiece.

The rigid rail comes with various fixation systems:

- Switchable magnetic
- Mechanical clamping
- Electric suction cup

*(For specific requests, please contact us at: contact@servisoud-et.com)*

The rigid rails can also be spliced.

*(Standard length up to 3m, other lengths on request)*

### A word from the expert:

***"Rigid rail bases are recommended for applications that require pinpoint accuracy. The rigid rail and its fine-pitch rack give the carriage extra stability.***
***The 90 version can move heavier tools and pull an idler carriage - to carry a wire feeder for example. On the other hand, this is also a heavier version."***

# Additional and positioning axes

## MANUAL SLIDE

Slide used to manually position the tool laterally or vertically. Numerous tapping holes provide great assembly and adjustment flexibility.

## LINEAR AXIS

The motorised linear axis, combined with the SERVIBOT RC controller, steers tools with highly accurate positioning.

Adjustment spacings and directions are configurable. The motorised axis can be configured as an oscillator by enabling the option in the SERVIBOT RC controller.

## ANGULAR AXIS

The angular axis is a third positioning axis that can be added to supplement two manual and/or motorised slides. The angular axis can be used for positioning and pendular oscillation by enabling the option in the SERVIBOT RC controller.

## A word from the expert:

***"The pendulum oscillator provides a sweeping motion like that of a manual welder. It is useful for narrow bevels or bevels with tight angles. Its setup, though, is more complex than a linear oscillator because the oscillator angle depends on the torch height and the stickout."***



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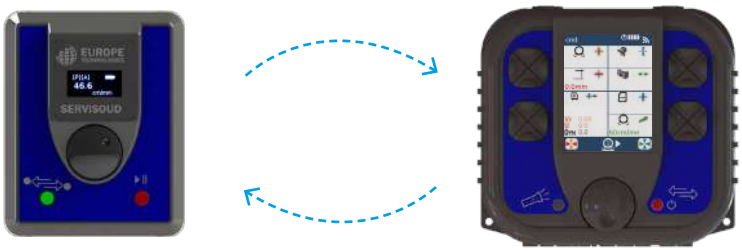
# Developing and updating a SERVIBOT system



SERVIBOT systems are designed to be fully scalable and user-friendly.

A controller can be upgraded by removing the simple interface from the console and pairing the new **SERVIBOT RC** controller on the dock stand.

Additional axes, such as linear and angular axes, operate via **automatic detection**. No configuration is required; once plugged in, the related options appear on the SERVIBOT RC screen.

Software features can be **ordered at any time during the system's life and activated remotely** by following the update procedure.

Users have access to regular system updates. This procedure can be performed via a shared Wi-Fi connection.

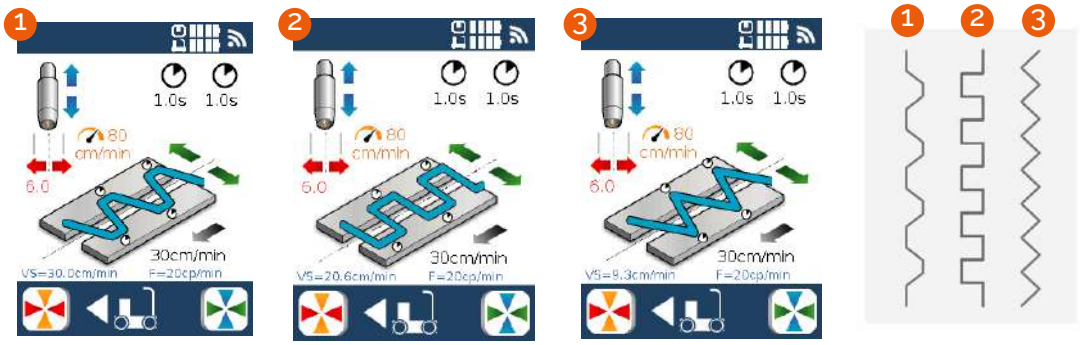
# TRACKMAG® ORIGINAL OXYCUTTING KIT

## EVO PACKAGE

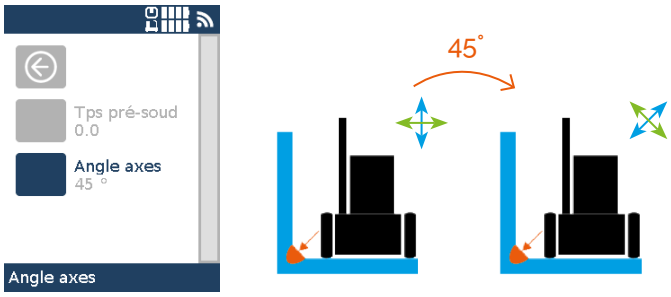
**Included as standard in EVO carriages with SERVIBOT RC remote control:**

### OSCILLATION

There are 3 oscillation pitch options:




1. **Trapeze pitch***:* The travel axis advances at the welding speed.
2. **Square pitch:** The travel axis advances during the side time delay.
3. **Triangular pitch:** The travel axis advances during the crossing.




The direction of the linear oscillation and travel axes **can be modified** via the software.

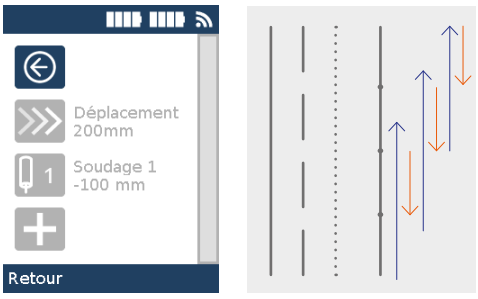
This eliminates the need for an additional mechanical accessory to orient the axes, thus reducing **setup times**.

### CYCLE PROGRAMMING

A block programming module has been developed to generate **intermittent, spot, or back step welding cycles.**
*(e.g.: opposite)*

The carriage advances 200 mm without welding.
The carriage moves back - 100 mm while welding.

The tool can be programmed to effect linear axis travel and loops. This makes it possible to perform overlay welding.



## JOB MANAGEMENT

This option is used to **save** a set of parameters and a machine configuration in a job.

The carriage memory base can store up to **30 jobs**.

**Jobs can be transferred** from one carriage to another via a remote control.


### A word from the expert:

***"For multi-pass welding, a job can be saved for each pass or layer when searching for settings. This helps to shorten production times."***

## USER MANAGEMENT AND LIMITATIONS:

NEW 2025

This feature is not active as standard.
It can be enabled in the SERVIBOT software settings. It is used to:

- **Block certain functions,** i.e. cycle setup, machine configuration, and programming functions for a user operator (only pre-recorded jobs can be selected).
- **Set MIN and MAX limits** for recipe settings to restrict SERVIBOT systems and remain within the ranges defined in the **welding procedure specification** (WPS).



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# GLUMAG® EVO

## EVO ADVANCE PACKAGE

**Used to unblock the following functionalities:**

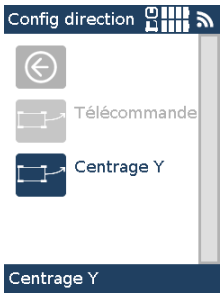
### FOR THE GLUMAG® EVO CARRIAGE:

### TRACKLESS GUIDANCE

The operator uses the SERVIBOT RC to correct the carriage trajectory by adjusting the position of the tool (welding torch, cutting, etc.).

Enabling the trackless guidance mode makes it possible to perform the following actions, without having to install a track:

- Tracking a linear or non-linear weld seam (curvature radius >1 m)
- **Tracking a weld seam in a cornice position by compensating for slippage due to gravity**




### FOR TRACKMAG®, RAILMAG® AND ROTOMAG EVO CARRIAGES:

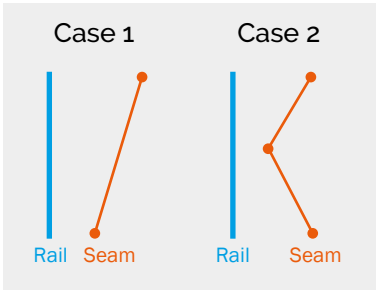
### TEACHING

This enables the **teaching of waypoints** to record a trajectory before welding.

This makes it possible to compensate for poor rail alignment *(case 1 in the diagram)* or to track a discontinuous linear weld seam *(case 2)*.

The operator can also apply offsets manually during welding.






### A word from the expert:

***"The teaching option is very useful for multi-pass applications: once the trajectory has been learned it can be replayed identically, and can also apply an offset in the lateral (Y) or vertical (Z) direction in relation to the weld."***



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## EVO PRO PACKAGE

**The EVO PRO package includes:**

- A 4-button SERVIBOT controller
- A SERVIBOX power source communication unit
- A 10 m communication cable (connecting the SERVIBOX to SERVIBOT equipment)
- A network cable (from the welding generator to the SERVIBOX unit)

This is used to unblock the following functionalities:

### POWER SOURCE COMMUNICATION AND CONTRO

NEW 2025





This function is used to:

- Remotely change generator settings on the SERVIBOT RC remote control (Current, Voltage, Wire speed, Job N°).
- Control welding wire feed or retraction
- Display on the SERVIBOT RC remote control the actual values of the settings during welding.
- Start and stop welding remotely without having to modify the torch

Currently compatible sources:

| Manufacturer | MIG/MAG | TIG |
|---|---|---|
| ESAB | Aristo Edge 500R | - |
| EWM | - | Tetrix (*ForceTig*) |
| FRONIUS | TPSi | iWave |
| GYS | - | Titanium 400 AC/DC |
| KEMPPI | Master M 358<br>X5 P<br>AX | - |
| KJELLBERG | - | Infocus *(high density TIG)* |

The sources listed below must be equipped with the manufacturer's specific **communication option**.
All other communicating sources can be made compatible with SERVIBOT systems: contact@servisoud.com.

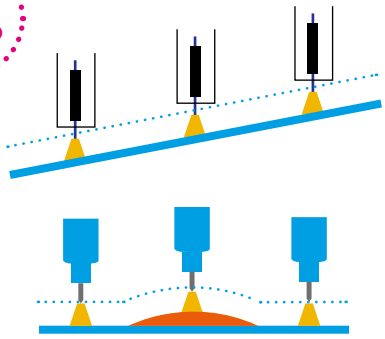
## SEAM HEIGHT TRACKING: SOC AND AVC

NEW 2025

Function enabling automatic seam height tracking :

- With welding current in the MAG process: Stick-Out control (SOC)
- With welding voltage in the TIG process: Arc voltage control (AVC)

*The current or voltage value must be retrieved from the welding power source via a communication unit or an analog unit*



## TIG FUNCTION

The PRO package makes SERVIBOT compatible with the TIG procedure by:

- Addition of the AVC seam height tracking function
- Control of TIG sources and welding settings on the SERVIBOT RC*
- Synchronization of the TIG welding cycle and SERVIBOT system travel*

**may vary depending on the type of TIG generator*



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# Configurations
# GLUMAG® EVO

1

GLUMAG® EVO
Bare

2

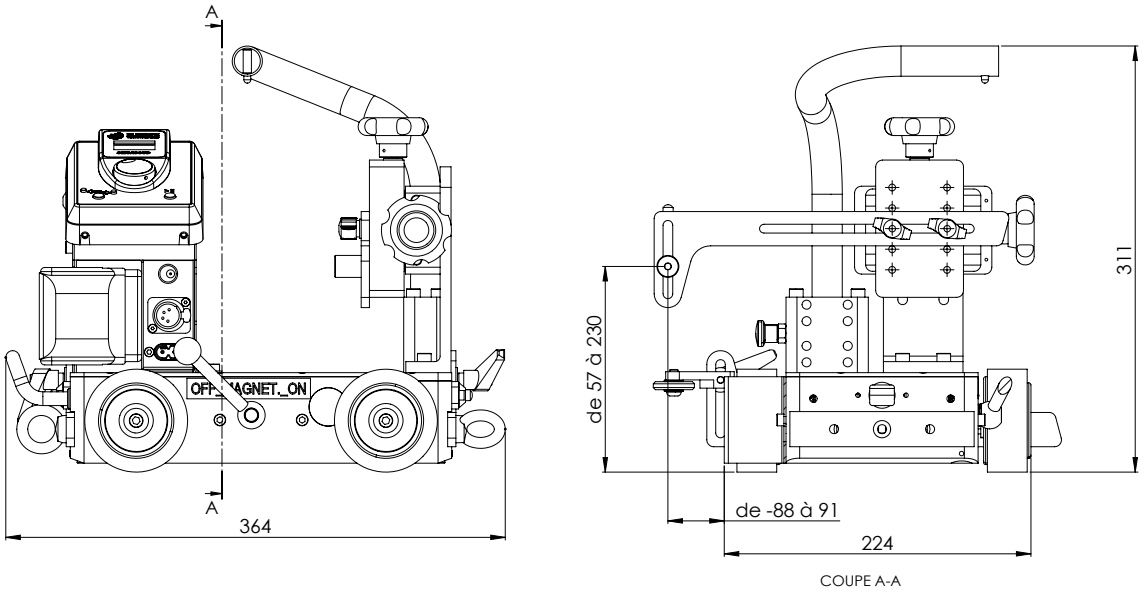
GLUMAG® EVO
Manual

3

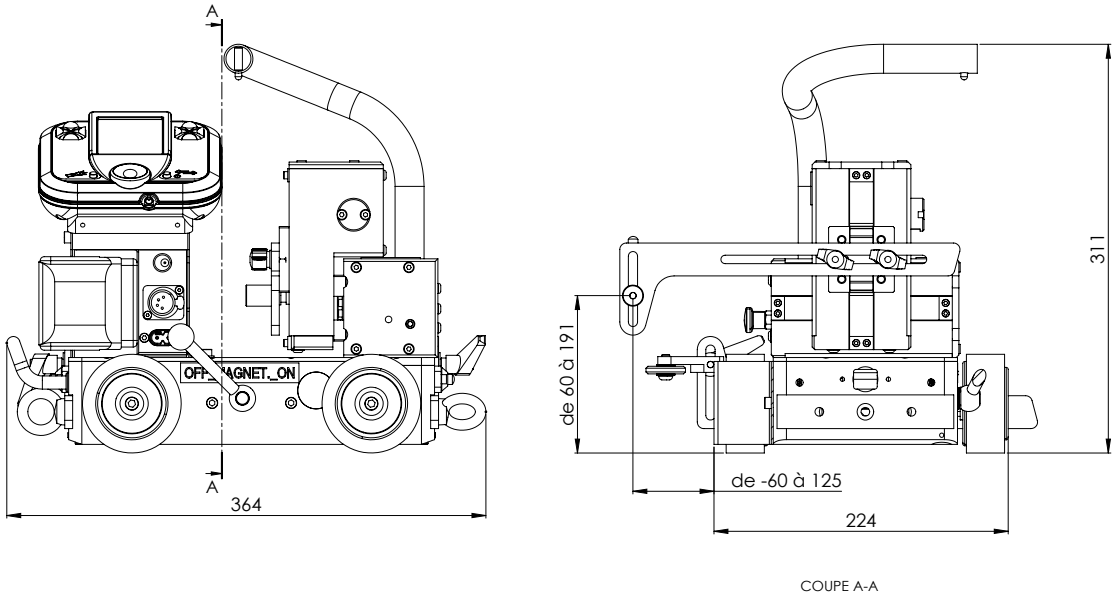
GLUMAG® EVO
Motorised Y/Z axes

| | DESIGNATIONS | SOFTWARE FUNCTIONS PACKAGE | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|---|
| 1 | Bare carriage | | -- | SV 921 0 00 00 0 |
| 2 | Y/Z dual manual slides - simple interface - MIG/MAG welding kit | | SV 921 S MM 11 A | SV 921 S MM 00 A |
| 3 | Motorised Y/Z axes - SERVIBOT RC controller - MIG/MAG welding kit | EVO | SV 921 R EE 11 A E | SV 921 R EE 00 A E |
| | | EVO ADVANCE | SV 921 R EE 11 A A | SV 921 R EE 00 A A |
| | | EVO PRO | SV 921 R EE 11 A P | SV 921 R EE 00 A P |

## DIAGRAMS



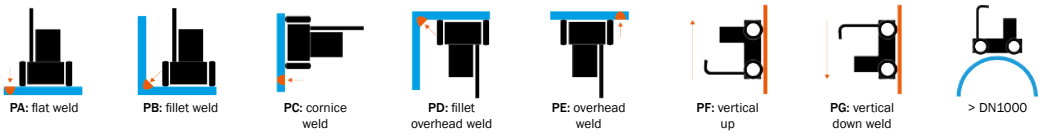

GLUMAG® EVO - Manual




GLUMAG® EVO - motorised Y/Z axes

*(Dimensions in mm)*

## WELDING POSITIONS



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## TECHNICAL CHARACTERISTICS

| | GLUMAG® EVO | | SERVIBOT RC |
|---|---|---|---|
| Drive | 4-wheel drive; dual motorisation | | |
| Speed range | 1 - 180 cm/min. (fully charged battery) | | |
| Battery supply | Li-Ion - 18 V - 5Ah | | Li-Ion |
| Battery life | Min. 10 hours | | 8 hours |
| Magnet clamping force | 28 kg | | |
| Torch holder | Quick-fit universal | | |
| Guide system | Crabbing bearing rollers | | |
| Dimensions (L x W x H) | 365 x 225 x 310 mm | | |
| Weight (with battery) | 9,1 kg* | 12 kg** | 400 g |
| Automatic carriage start during welding | Arc detection (no generator connection) or torch trigger connection | | |
| Safety | Limit end stops; inductive sensors at the end of the sheet | | |

*As per configuration N°2*
**As per configuration N°3*

## COMPATIBLE KITS

MIG/MAG welding

Ref.: SV 00233 0000

Angular MIG/MAG welding

Ref.: SV 00251 0000

SAW welding

Ref.: SV 96400 0001

Oxy cutting

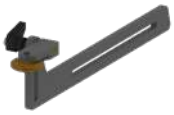
Ref.: SV 00212 0000

Plasma cutting

Ref.: SV 00246 2000 (version with Ø35 torch holder)*

**Compatible with the mini-machine Duramax torch, angle 180°.*

# Accessories for **GLUMAG® EVO**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Standard full crabbing arm (250 mm) |  | SV 00232 0000 |
| Long full crabbing arm (400mm) |  | SV 00238 0000 |
| Extra long full crabbing arm (750 mm) |  | SV 00239 0000 |
| Full cornice arm kit x2 |  | SV 00066 1100 |
| Flexible cornice guide track (1500mm) |  | SV 96100 0008 |
| Flexible cornice guide track (1500 mm) - high-temperature magnets |  | SV 96100 0011 |
| Standard Ø75 mm wheels |  | SV 00001 1100<br>or by sets of 4<br>SV 00001 1100 - SET 4 |



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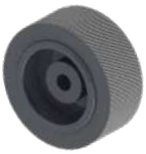
| | | |
|---|---|---|
| Wheels Ø100 mm* |  | SV 00002 1101 |
| Integration kit<br>for wheels Ø100 mm*<br>(2 chocks; 4 wheels; 4 spacers) |  | SV 00370 0000 |
| Knurled aluminium wheels<br>(preheating and cutting)<br>Ø75 mm |  | SV 00003 0001<br>or by sets of 4<br>SV 00003 0001 - SET 4 |
| Standard wheel guards |  | SV 00117 0001 |
| Wheel guards<br>Ø100 mm |  | SV 00241 0000 |
| Bundle support for handle |  | SV 00242 0000 |
| Bundle support mast and<br>GLUMAG®interface |  | SV 00300 0000 |

**While the GLUMAG® is fitted with 100 mm wheels, the carriage only operates in the flat weld position (PA) (inactive magnetisation)*

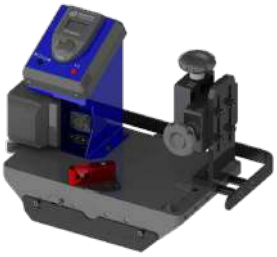

# TRACKMAG® EVO

# Configurations
# TRACKMAG® EVO

1

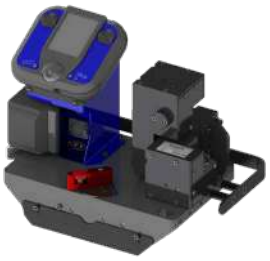
TRACKMAG® EVO
Bare

2



TRACKMAG® EVO
Manual

3

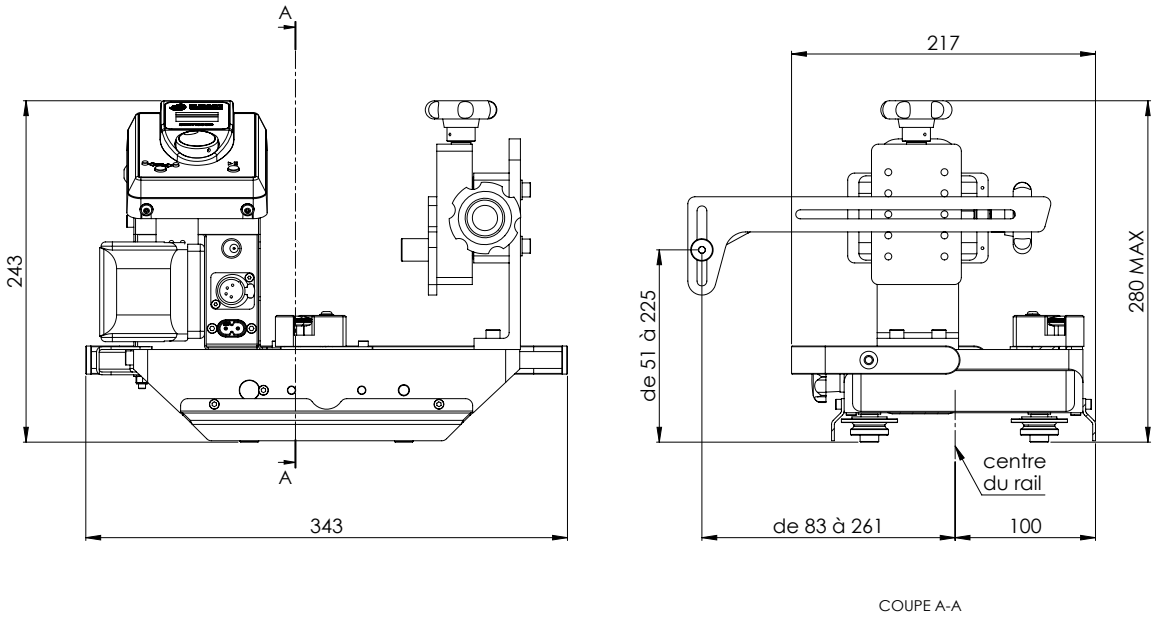


TRACKMAG® EVO
Motorised Y/Z axes

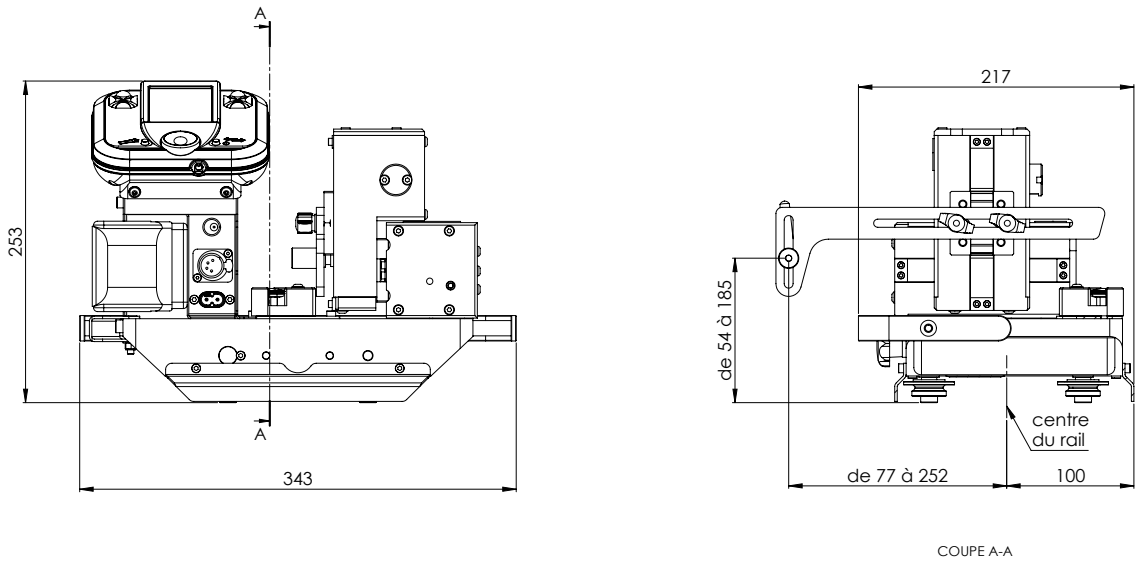
| | DESIGNATIONS | SOFTWARE FUNCTIONS PACKAGE | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|---|
| 1 | Bare carriage* | | -- | SV 922 0 00 00 0 |
| 2 | Y/Z dual manual slides - simple interface - MIG/MAG welding kit* | | SV 922 S MM 11 A | SV 922 S MM 00 A |
| 3 | Motorised Y/Z axes - SERVIBOT RC controller - MIG/MAG welding kit* | EVO | SV 922 R EE 11 A E | SV 922 R EE 00 A E |
| | | EVO ADVANCE | SV 922 R EE 11 A A | SV 922 R EE 00 A A |
| | | EVO PRO | SV 922 R EE 11 A P | SV 922 R EE 00 A P |

*2 rail end stops included

## DIAGRAMS




TRACKMAG® EVO - Manual




TRACKMAG® EVO - motorised Y/Z axes

*(Dimensions in mm)*

## WELDING POSITIONS

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## TECHNICAL CHARACTERISTICS

| | TRACKMAG® EVO | | SERVIBOT RC |
|---|---|---|---|
| Drive | Clutch pinion | | |
| Speed range | 1 - 180 cm/min. (fully charged battery) | | |
| Battery supply | Li-Ion - 18 V - 5Ah | | Li-Ion |
| Battery life | 10 hours | | 8 hours |
| Torch holder | Quick-fit universal | | |
| Guide system | Flexible or rigid track | | |
| Dimensions (L x W x H) | 345 x 220 x 255 mm | | |
| Weight | 7 kg* | 9.5 kg** | 400 g |
| Automatic carriage start during welding | Arc detection (no cable) or torch trigger connection | | |
| Safety | Rail limit stops | | |

**As per configuration N°2*
***As per configuration N°3*

## COMPATIBLE KITS

MIG / MAG welding

Ref.: SV 00233 0000

Angular MIG/MAG welding

Ref.: SV 00251 0000

SAW welding

Ref.: SV 96400 0003

Oxy cutting

Ref.: SV 00212 0000

Plasma cutting

Ref.: SV 00246 2000 (version with Ø35 torch holder)*

**Compatible with the mini-machine Duramax torch, angle 180°.*

# Accessories for **TRACKMAG® EVO**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Bundle support mast |  | SV 00097 1100 |
| Full tubular handle |  | SV 00243 0000 |
| Standard magnetic flexible track (1500mm) |  | SV 96100 0001 |
| Standard half-length magnetic flexible track (750mm) |  | SV 96100 0003 |
| High-temperature flexible magnetic track (1500mm) |  | SV 96100 0002 |
| Half-length high-temperature magnetic flexible track (750mm) |  | SV 96100 0004 |
| Flexible track with switchable magnets (1500mm) |  | SV 96100 0009 |



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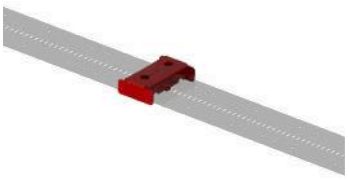
| | | |
|---|---|---|
| Pneumatic flexible track (1500mm) |  | SV 96100 0005 |
| Standard magnetic stiffened track (1500mm) |  | SV 96100 0006 |
| Set of 2 rail end stop sensors (factory assembly) |  | SV 00244 0000 |
| Rail end stop |  | SV 00245 0000 |
| Additional rail end magnetisation |  | SV 00226 0000<br>or by sets of 2:<br>SV 00245 0000 - SET 2 |
| Additional high-temperature rail end magnetisation |  | SV 00228 0000 |

# RAILMAG® 60 EVO

# Configurations
# RAILMAG® 60 EVO

1

RAILMAG® 60 EVO
Bare

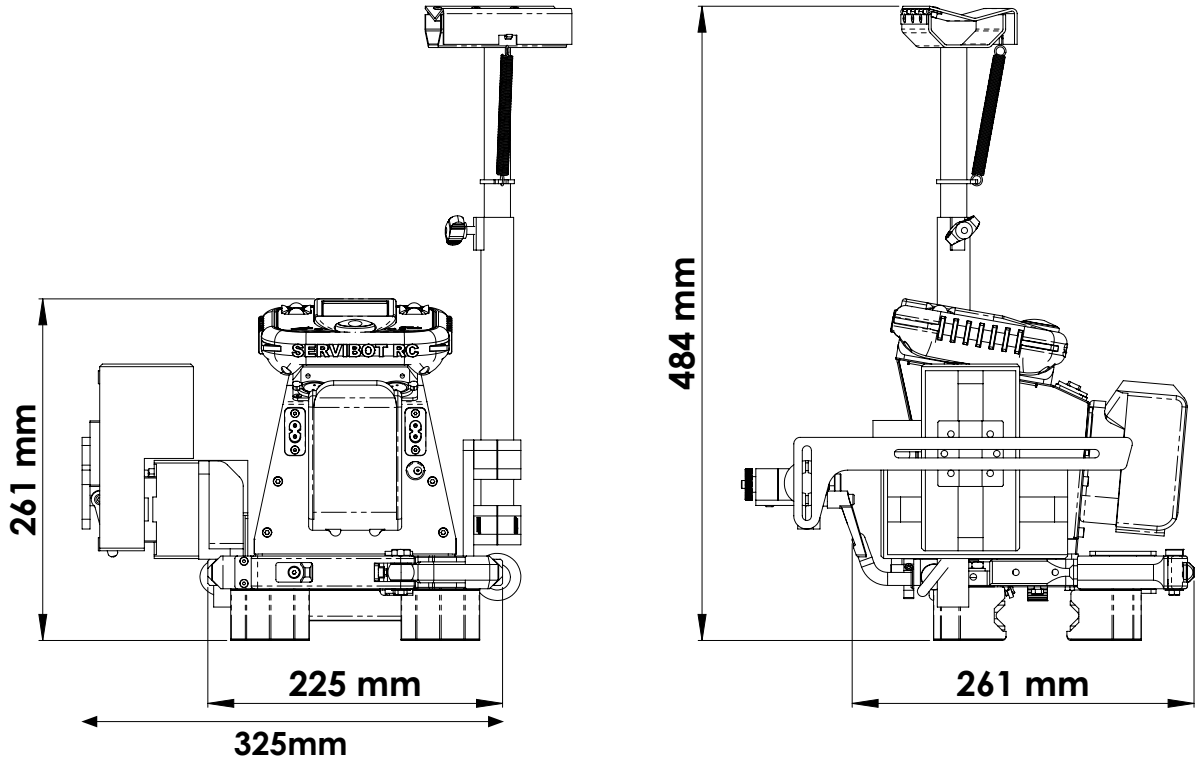
2

RAILMAG® 60 EVO
Motorised Y/Z axes

| | DESIGNATIONS | SOFTWARE FUNCTIONS PACKAGE | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|---|
| 1 | Bare carriage* | | -- | SV 904 0 00 00 0 |
| 2 | Motorised Y/Z axes - SERVIBOT RC controller - MIG/MAG welding kit* | EVO | SV 904 R EE 11 A E | SV 904 R EE 00 A E |
| | | EVO ADVANCE | SV 904 R EE 11 A A | SV 904 R EE 00 A A |
| | | EVO PRO | SV 904 R EE 11 A P | SV 904 R EE 00 A P |

* *Equipped with end of run limit ; 2 end stops included*

## DIAGRAMS




RAILMAG® 60 EVO

## WELDING POSITIONS


## TECHNICAL CHARACTERISTICS

| | RAILMAG® 60 EVO | | SERVIBOT RC |
|---|---|---|---|
| Drive | Clutch pinion | | |
| Speed range | 1-120 cm/min. (fully charged battery) | | |
| Battery supply | Li-Ion - 18 V - 5Ah | | Li-Ion |
| Battery life | 10 hours | | 8 hours |
| Torch holder | Quick-fit universal | | |
| Guide system | Rigid rail | | |
| Dimensions (L x W x H) | 325 x 261 x 261 mm | | |
| Weight | 6.1 kg* | 9.6 kg** | 400 g |
| Automatic carriage start during welding | Arc detection (no cable) or torch trigger connection | | |
| Safety | Rail limit stops | | |

**As per configuration N°1*
***As per configuration N°2*



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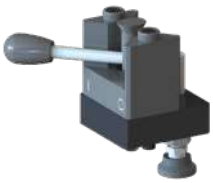
## COMPATIBLE KITS

| MIG/MAG welding | Angular MIG/MAG welding | SAW welding | Plasma cutting |
|---|---|---|---|
|  |  |  |  |
| Ref.: SV 00233 0000 | Ref.: SV 00251 0000 | Ref.: SV 96400 0004 | Ref.: SV 00246 2000 (version with Ø35 torch holder)* |

**Compatible with the mini-machine Duramax torch, angle 180°.*

# Accessories for RAILMAG® 60 EVO

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Switchable magnet holder |  | SV 86001 1000 |
| Electric suction cup holder |  | SV 86002 1000 |
| Electric suction cup holder 90° |  | SV 86002 2000 |
| Rail / holder interface |  | SV 86101 1000 |
| Intermediate holder (to be used in addition to a magnetic or suction cup holder) |  | SV 86003 1000 |
| Spliceable rigid rail system with rack |  | SV 00476 0000<br>Length on request (< 1m) |
| | | SV 00475 0000<br>Length on request (< 2m) |
| | | SV 00471 0000<br>Length on request (< 3m) |



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# Configurations
# RAILMAG® 90 EVO

1

RAILMAG® 90 EVO
Bare

2

RAILMAG® 90 EVO
Motorised Y/Z axes 65

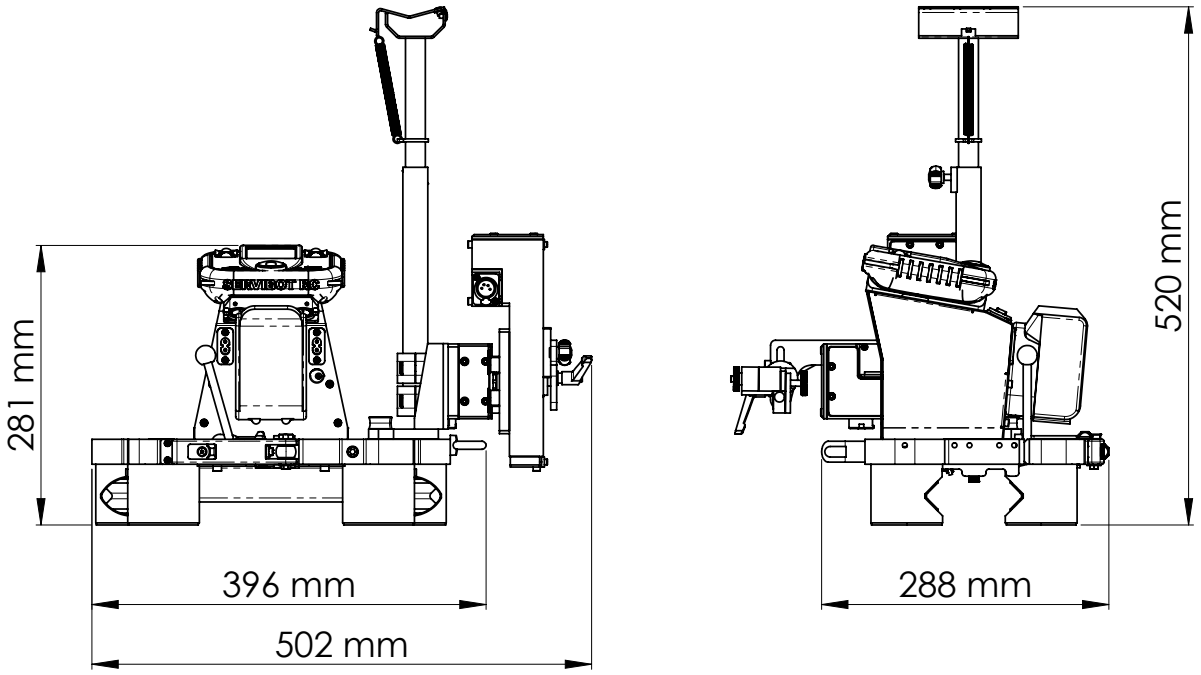
3

RAILMAG® 90 EVO
Motorised Y/Z axes 145

| | DESIGNATIONS | SOFTWARE FUNCTIONS PACKAGE | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|---|
| 1 | Bare carriage* | | - | SV 905 0 00 00 0 |
| 2 | motorised Y/Z axes (60 mm stroke) - SERVIBOT RC controller - MIG/MAG welding kit* | EVO | SV 905 R EE 11 A E | SV 905 R EE 00 A E |
| | | EVO ADVANCE | SV 905 R EE 11 A A | SV 905 R EE 00 A A |
| | | EVO PRO | SV 905 R EE 11 A P | SV 905 R EE 00 A P |
| 3 | motorised Y/Z axes (145 mm stroke) - SERVIBOT RC controller - MIG/MAG welding kit* | EVO | SV 905 R LL 11 A E | SV 905 R LL 00 A E |
| | | EVO ADVANCE | SV 905 R LL 11 A A | SV 905 R LL 00 A A |
| | | EVO PRO | SV 905 R LL 11 A P | SV 905 R LL 00 A P |

* *Equipped with end of run limit ; 2 end stops included*

## DIAGRAMS




RAILMAG® 90 EVO

## WELDING POSITIONS


## TECHNICAL CHARACTERISTICS

| | RAILMAG® 90 EVO | | | SERVIBOT RC |
|---|---|---|---|---|
| Drive | Clutch pinion | | | |
| Speed range | 1-120 cm/min. (fully charged battery) | | | |
| Battery supply | Li-Ion - 18 V - 5Ah | | | Li-Ion |
| Battery life | 10 hours | | | 8 hours |
| Torch holder | Quick-fit universal | | | |
| Guide system | Rigid rail | | | |
| Dimensions (L x W x H) | 396 x 288 x 281 mm | | | |
| Weight | 8.5 kg* | 12 kg** | 13.2 kg*** | 400 g |
| Automatic carriage start during welding | Arc detection (no cable) or torch trigger connection | | | |
| Safety | Rail limit stops | | | |

*As per configuration N°1*
***As per configuration N°2*
****As per configuration N°3*



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## COMPATIBLE KITS

### MIG/MAG welding

Ref.: SV 00233 0000

### Angular MIG/MAG welding

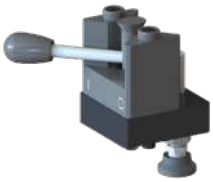
Ref.: SV 00251 0000

### Plasma cutting

Ref.: SV 00246 2000
(version with Ø35 torch holder)*

**Compatible with the mini-machine Duramax torch, angle 180°.*

# Accessories for RAILMAG® 90 EVO

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Switchable magnet holder |  | SV 86001 2000 |
| Rail / holder interface |  | SV 86201 1000 |
| Intermediate holder (to be used in addition to a magnetic or suction cup holder) |  | SV 86003 2000 |
| SR90 rigid rail with rack |  | ≤ 1.5m: SV 00483 0000 |
| | | ≤ 2.5m: SV 00484 0000 |
| | | ≤ 3m: SV 00485 0000 |
| | | ≤ 3.5m: SV 00486 0000 |
| Screw-in rail link |  | ART16182 |



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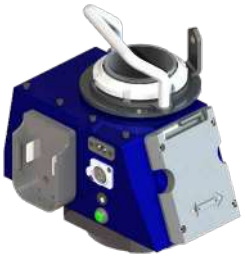
# Configurations
# ROTOMAG

1



ROTOMAG
Bare

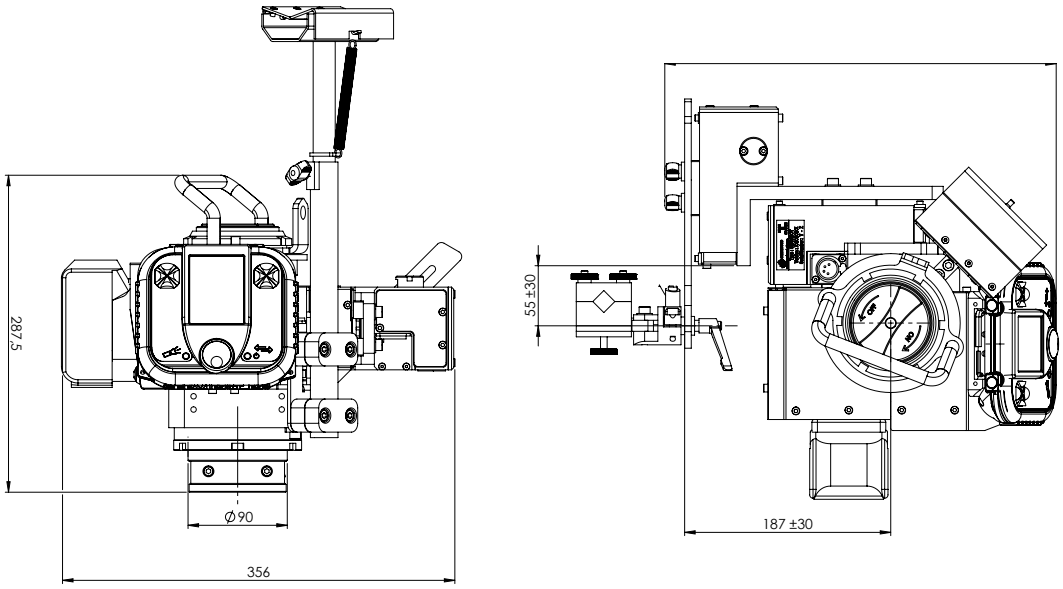
2

ROTOMAG
Motorised Y/Z axes

| | DESIGNATIONS | SOFTWARE FUNCTIONS PACKAGE | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|---|
| 1 | Bare carriage* | | - | SV 906 0 00 00 0 |
| 2 | Motorised Y/Z axes - SERVIBOT RC controller - MIG/MAG welding kit* | EVO | SV 906 R EE 11 A E | SV 906 R EE 00 A E |
| | | EVO ADVANCE | SV 906 R EE 11 A A | SV 906 R EE 00 A A |
| | | EVO PRO | SV 906 R EE 11 A P | SV 906 R EE 00 A P |

**Not equipped with a fixing system*

## DIAGRAMS




ROTOMAG

## WELDING POSITIONS


## TECHNICAL CHARACTERISTICS

| | ROTOMAG | SERVIBOT RC |
|---|---|---|
| Diameter range | 100-600 mm (other diameters on request) | |
| Speed range | 1-120 cm/min | |
| Battery supply | Li-Ion - 18 V - 5Ah | Li-Ion |
| Battery life | 10 hours | 8 hours |
| Torch holder | Quick-fit universal | |
| Guide system | Magnetised or screwed into a specific receptacle | |
| Dimensions (L x W x H) | 350 x 350 x 300 mm | |
| Weight | 15 kg* | 400 g |
| Automatic carriage start during welding | Arc detection (no cable) or torch trigger connection | |

**As per configuration N°2*



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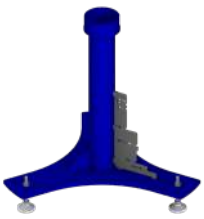
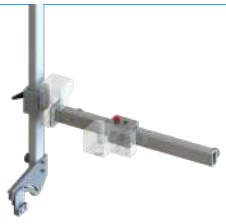
# Accessories for **ROTOMAG**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Magnetic clamping |  | SV 90601 1000 |
| Screw fixing |  | SV 90601 2000 |
| Steel receptacle |  | SV 90602 1000 |
| Storage holder stand |  | SV 90602 2000 |
| Specific interface |  | on request |
| Specific arm support |  | on request |

# ROTOMAG-B

# Configurations
# ROTOMAG-B

1

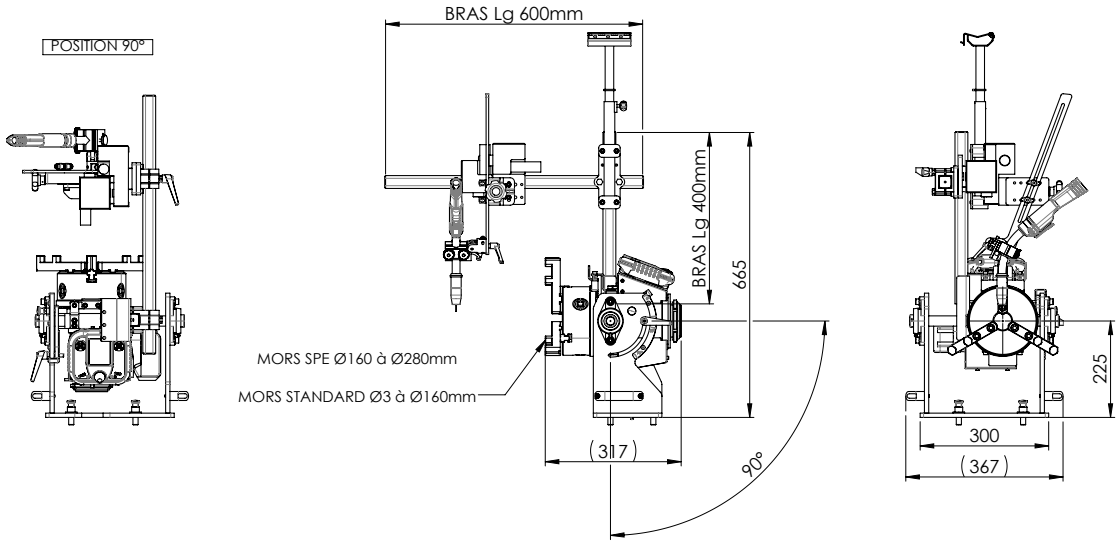
ROTOMAG-B
Manual

2

ROTOMAG-B
Motorised Y/Z axes

| | DESIGNATIONS | SOFTWARE FUNCTIONS PACKAGE | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|---|
| 1 | Y/Z dual manual slides - simple interface - MIG/MAG welding kit | | SV 916 S MM 11 A | SV 916 S MM 00 A |
| 2 | Motorised Y/Z axes - SERVIBOT RC controller - MIG/MAG welding kit | EVO | SV 916 R EE 11 A E | SV 916 R EE 00 A E |
| | | EVO ADVANCE | SV 916 R EE 11 A A | SV 916 R EE 00 A A |
| | | EVO PRO | SV 916 R EE 11 A P | SV 916 R EE 00 A P |

## DIAGRAMS




ROTOMAG-B

## TECHNICAL CHARACTERISTICS

| | ROTOMAG-B | SERVIBOT RC |
|---|---|---|
| Diameter range | 20 to 250 mm | |
| Max. diameter for the passage of a hollow shaft | 60mm | |
| Battery supply | Li-Ion - 18 V - 5Ah | Li-Ion |
| Battery life | 10 hours | 8 hours |
| Torch holder | Quick-fit universal | |
| Guide system | 3-jaw chuck | |
| Dimensions (L x W x H) | 320 x 370 x 400 mm | |
| Weight (minus the motorised axes) | 26 kg* | 400 g |
| Automatic carriage start during welding | Arc detection (no cable) or torch trigger connection | |

**As per configuration N°2*



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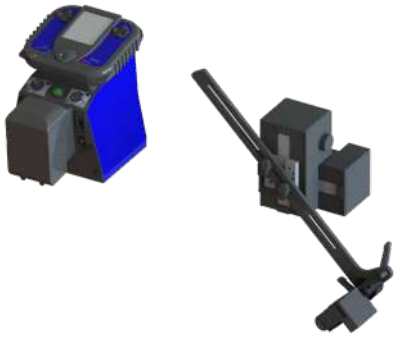
# Accessories for **ROTOMAG-B**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Torch passage |  | SV 91602 1000 |
| Tube pickup (DN 20 to DN 250 ) |  | SV 91603 1000 |
| Inerting plug |  | SV 91604 1000 |
| Table with removable feet |  | SV 91601 1000 |
| Integration on table with holes DEMMLER D16 |  | on request |

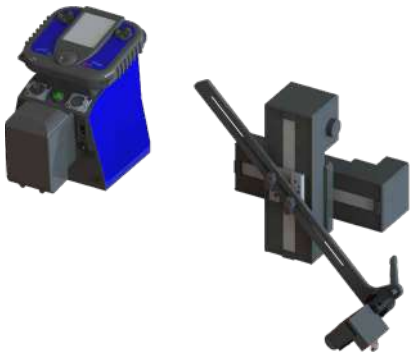
# Configurations
# EVO AXES PACK

1



Autonomous axes 65 mm

2



Autonomous axes 145 mm

| | DESIGNATIONS | SOFTWARE FUNCTIONS PACKAGE | PART NUMBERS WITH BATTERY CHARGER | PART NUMBERS WITH NO BATTERY CHARGER |
|---|---|---|---|---|
| 1 | motorised Y/Z axes (65 mm stroke) - SERVIBOT RC controller - MIG/MAG welding kit* - cable accessory XLR 10m | EVO | SV 968 R EE 11 A E | SV 968 R EE 00 A E |
| | | EVO PRO | SV 968 R EE 11 A P | SV 968 R EE 00 A P |
| 2 | motorised Y/Z axes (145 mm stroke) - SERVIBOT RC controller - MIG/MAG welding kit - cable accessory XLR 10m | EVO | SV 968 R LL 11 A E | SV 968 R LL 00 A E |
| | | EVO PRO | SV 968 R LL 11 A P | SV 968 R LL 00 A P |



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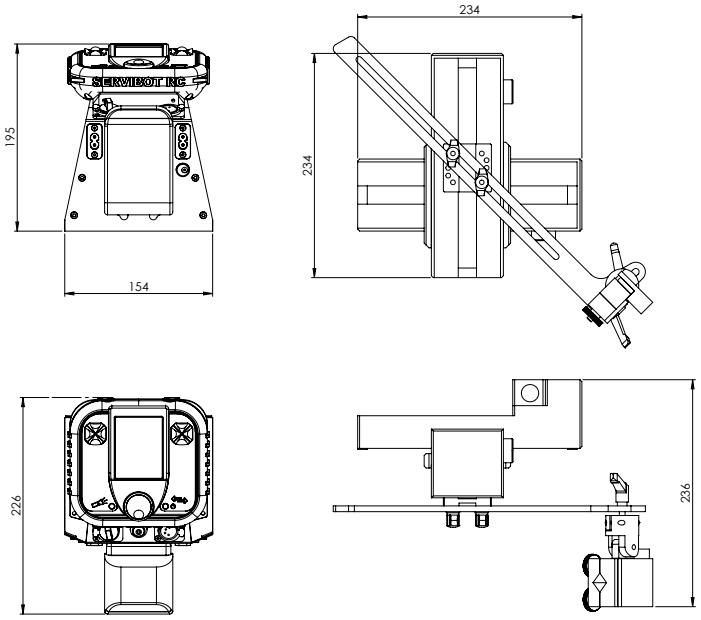
## DIAGRAMS




Autonomous axes 145 mm

## TECHNICAL CHARACTERISTICS

| | AUTONOMOUS AXES | SERVIBOT RC |
|---|---|---|
| Battery supply | Li-Ion - 18 V - 5Ah | Li-Ion |
| Battery life | 10 hours | 8 hours |
| Torch holder | Quick-fit universal | |
| Console dimensions | 230 x 160 x 200 mm | |
| Axe dimensions | See section on motorised axes | |
| Console weight | 1.2 kg | 400 g |
| Axes weight | 3.6 kg (65 mm) - 4.6 kg (145 mm) | |
| Automatic carriage start during welding | Arc detection (no cable) or torch trigger connection | |

# Accessories compatible with the **EVO AXES PACK**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| Electric unit |  | on request |
| Articulated interface for boom |  | SV 00253 0000 |
| Specific bundle support |  | on request |



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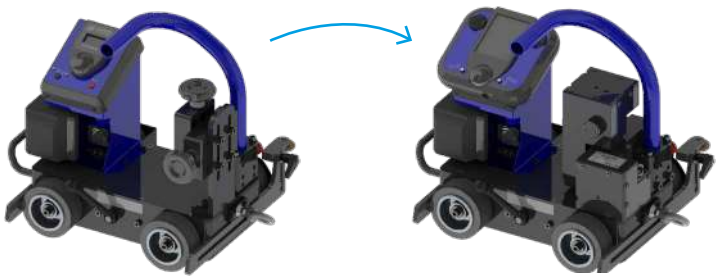
# UPGRADING AND UPDATING
## standard EVO configurations

All mechanised **SERVIBOT EVO carriages and solutions can be upgraded at any time**.
Modules can be replaced to upgrade capabilities and the software updated to add new functions.
Example for GLUMAG (all the other series share the same principle and codes):



GLUMAG® EVO manual

GLUMAG® EVO - **EVO** software function

Required for upgrading:

| DESIGNATIONS | PART NUMBERS |
|---|---|
| SERVIBOT RC controller (2-button HMI) | SV 95701 1000 |
| Linear axis 65 mm stroke cable 250 mm | SV 95800 1000 |
| Linear axis 65 mm stroke, no cable | SV 95800 2000 |
| Activation of **EVO** software | SOFT 0020 |

**EVO** → **EVO ADVANCE**

Required for upgrading:

| DESIGNATIONS | PART NUMBERS |
|---|---|
| Activation of **EVO ADVANCE** software | SOFT 0021 |

**EVO ADVANCE** → **EVO PRO**

Required for upgrading:

| DESIGNATIONS | PART NUMBERS |
|---|---|
| SERVIBOT RC controller (4-button HMI) | SV 95701 2000 |
| Communication unit (network cable included) | SV 80101 2000 |
| Male/female XLR accessories cable 10m * | SV 00666 0000 |

**Other lengths on request*

# Universal accessories for the **SERVIBOT range**

| POWER SUPPLY | | |
|---|---|---|
| External power supply<br>230V - 50Hz - FR plug |  | SV 96000 0001 |
| Unit-carriage cable for external power supply |  | SV 00210 2120<br>(Length 1.5m)<br>SV 00210 1120<br>(Length 10m) |
| Battery charger<br>MAKITA 18V single |  | ART 05680 |
| Battery charger<br>MAKITA 18V dual |  | ART 05681 |
| Battery<br>MAKITA 18V 5Ah |  | ART 05679 |
| Compatible battery<br>18V 5Ah |  | ART 13848 |
| Compatible battery<br>18V 9Ah |  | ART 13849 |
| 12V charger<br>remote control |  | ART 05694 |
| XLR flashlight |  | SV 00258 0000 |
| Anti-drop<br>counterbalance<br>(Capacity 10-14 kg) |  | ART 14598 |



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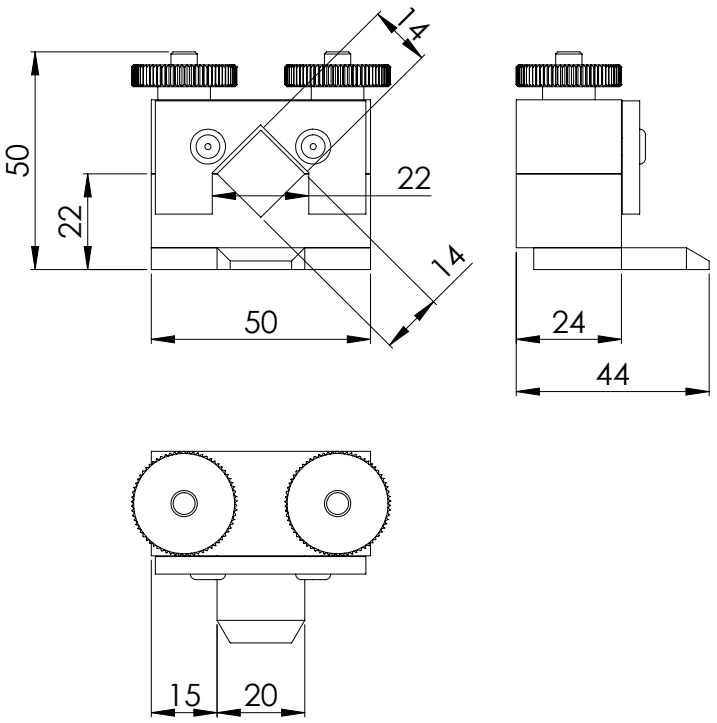
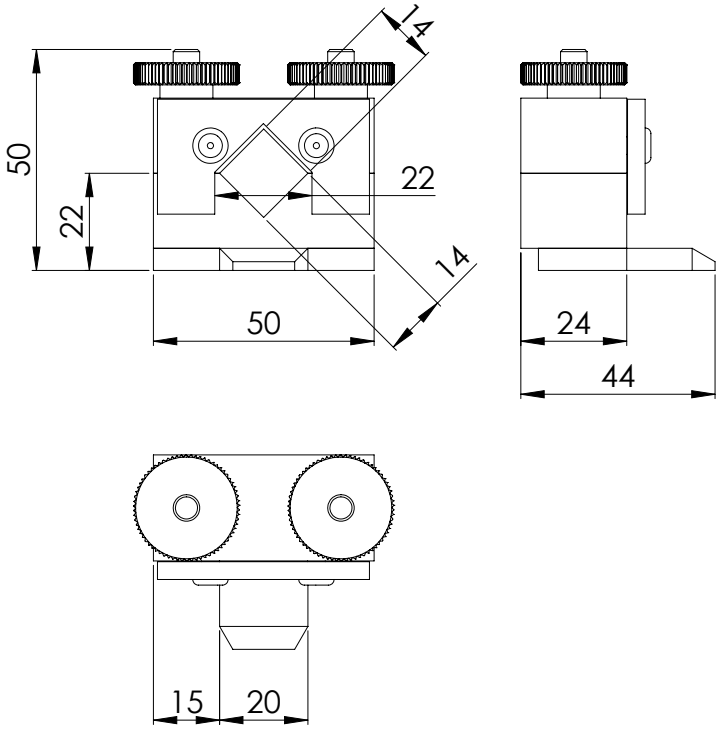
## TORCH HOLDER

| Standard torch holder (70° max) | SV 00005 1100 |
|---|---|

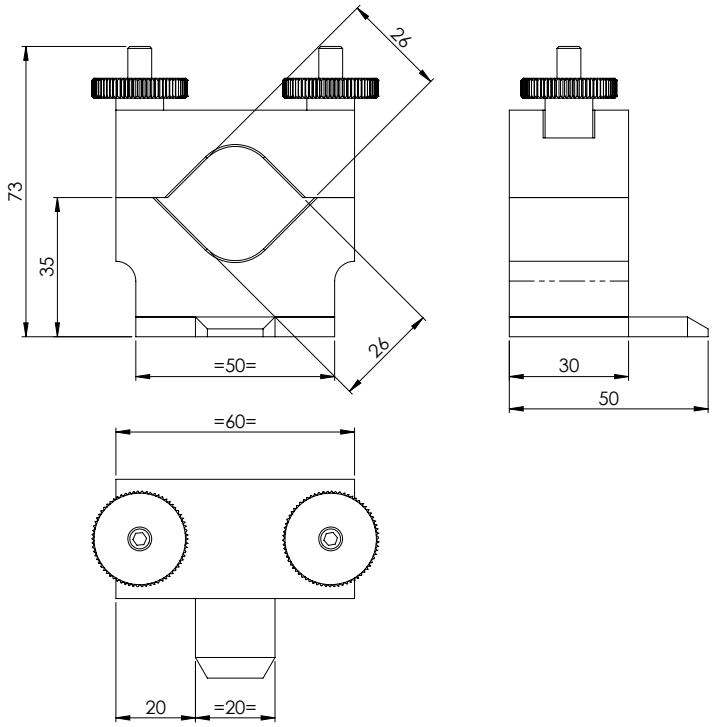



| High-temperature torch holder (max 250°) | SV 00248 0000 |
|---|---|

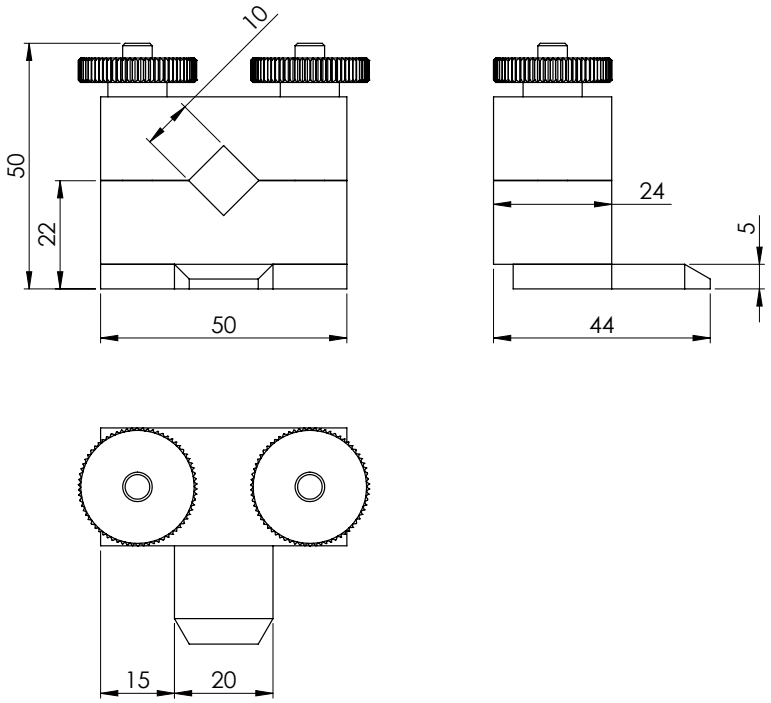


## TORCH HOLDER

| Extractor torch holder (70° max) | SV 00045 1100 |
|---|---|




| innershield® torch holder (70° max) | SV 00249 0000 |
|---|---|



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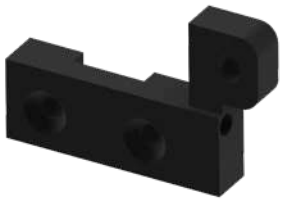
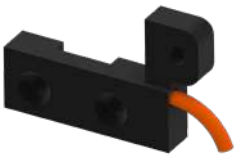
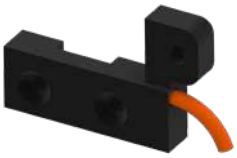
| INTERMEDIATE SUPPORTS | | |
|---|---|---|
| Intermediate support with no sensor |  | SV 00004 0112 |
| Intermediate support with no symmetrical sensor |  | SV 00004 0113 |

| ARC SENSOR | | |
|---|---|---|
| Intermediate support with standard arc sensor (400mm) |  | SV 00004 0114 |
| Intermediate support with long standard arc sensor (650mm) |  | SV 00004 0115 |
| Intermediate support with symmetrical arc sensor (400mm) |  | SV 00004 0116 |
| Intermediate support with long symmetrical arc sensor (650mm) |  | SV 00004 0117 |
| Arc sensor extension (400mm) |  | SV 00247 0000 |
| Trigger cable (400mm) |  | ART 04932 |
| Manual torch BINZEL XFUME® PRO 501 4m equipped with a trigger cable |  | TORC 0293 |
| Straight torch BINZEL XFUME® AUT 501 m equipped with a trigger cable |  | TORC0311 |
| Manual torch KEMPPI GF 403W 5m equipped with a trigger cable |  | TORC0312 |



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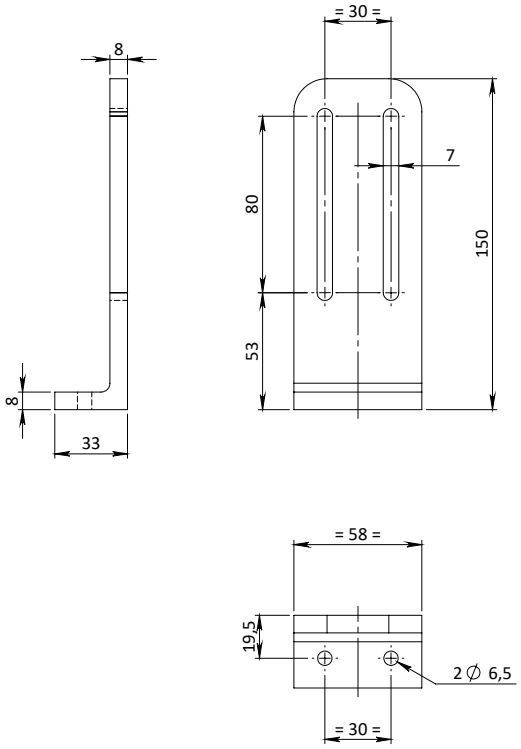
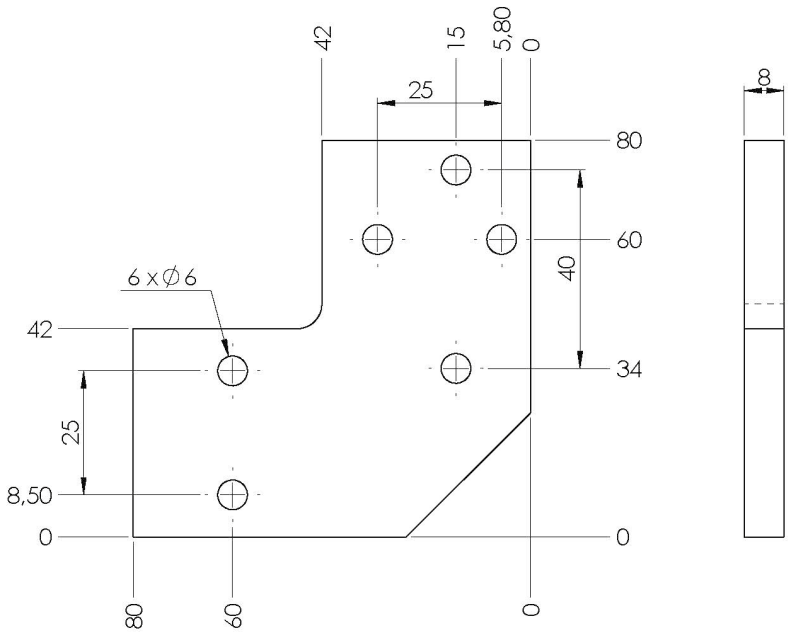
## ASSEMBLY INTERFACE

| Frame connection bracket - manual Y axis | SV 00188 0001 |
|---|---|

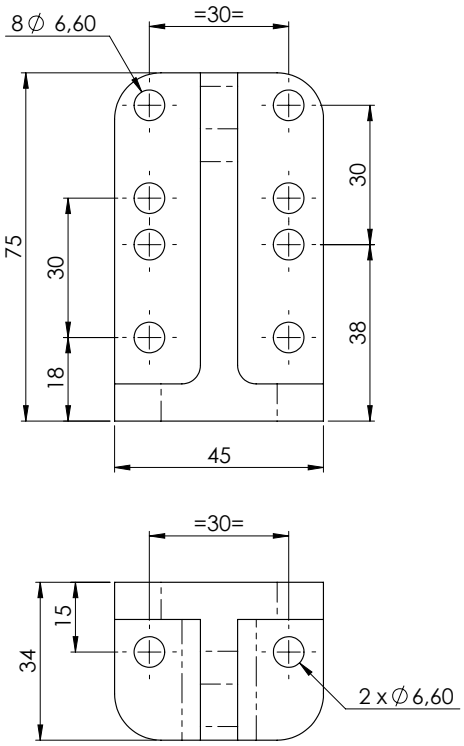



| Connector plate - manual Y axis - manual Z axis | SV 00036 0001 |
|---|---|

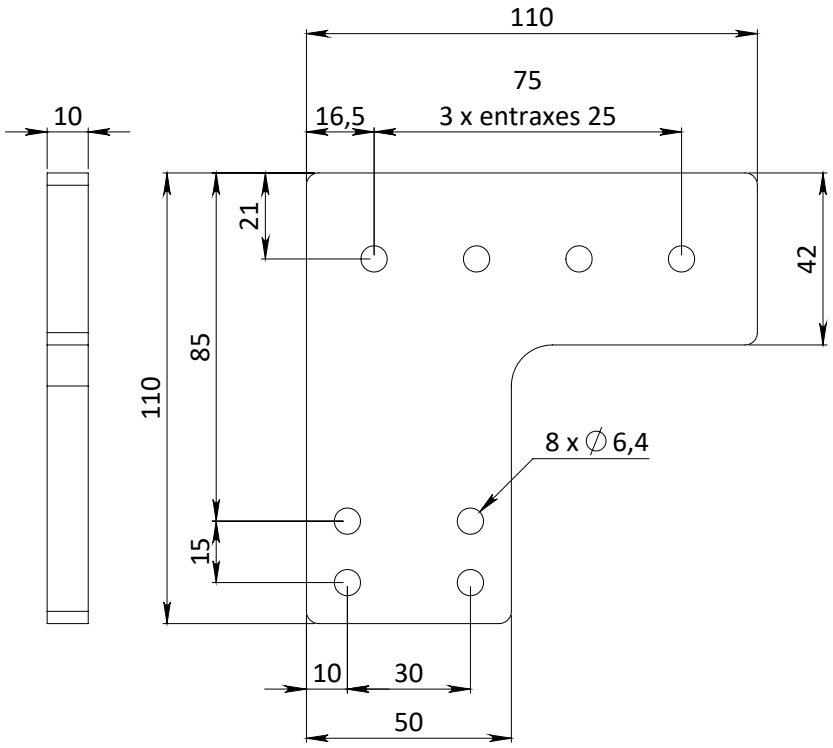


## ASSEMBLY INTERFACE

| Frame connection bracket - motorised Y axis | SV 00129 0001 |
|---|---|




| Connector plate - motorised Y axis - manual Z axis | SV 00189 0001 |
|---|---|



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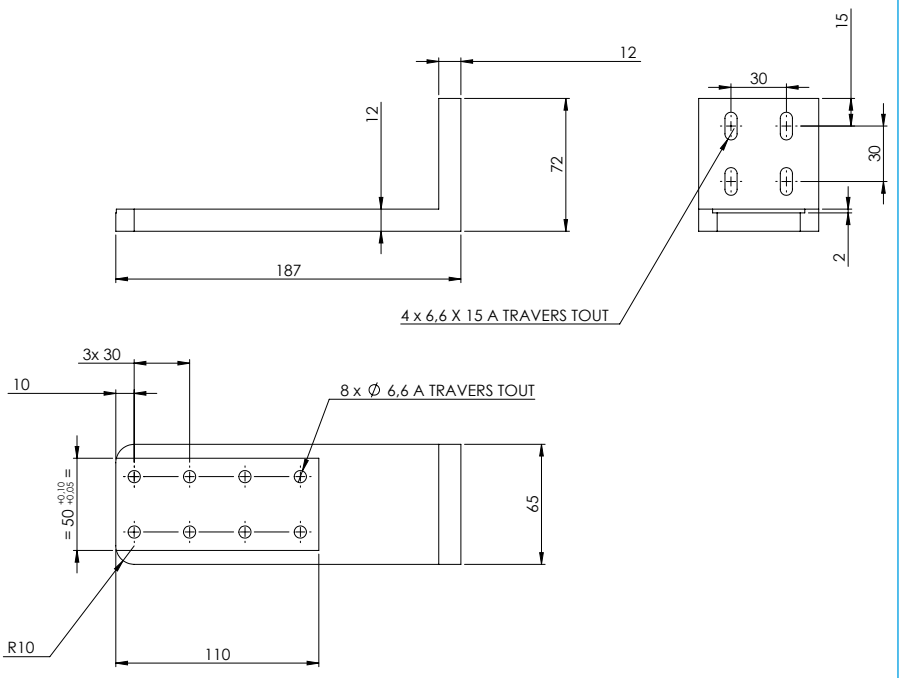
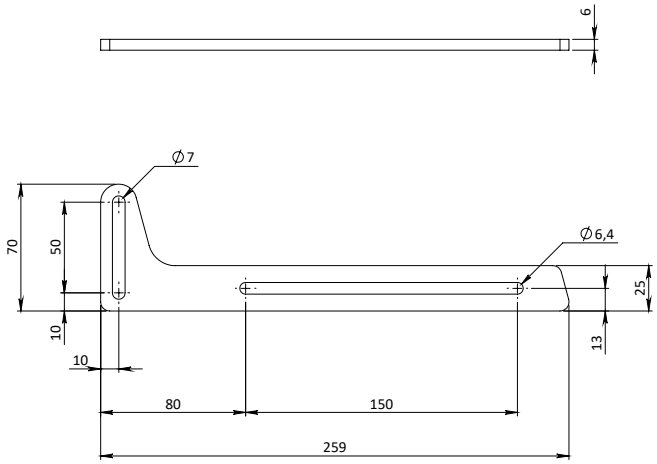
## ASSEMBLY INTERFACE

| Connection bracket - Motorised axis - Motorised axis | SV 00252 0000 |
|---|---|

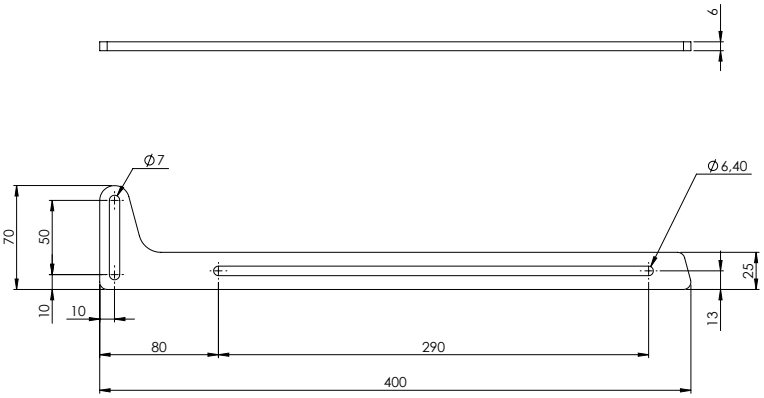


## TORCH HOLDER ARM

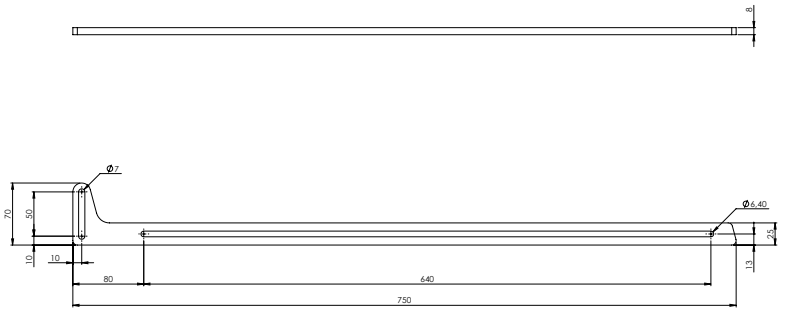
| | |
|---|---|
| Standard arm 250 mm | SV 00033 0001 |




| | |
|---|---|
| Long arm 400 mm | SV 00043 0001 |




| | |
|---|---|
| Extra long arm 750 mm | SV 00250 0000 |



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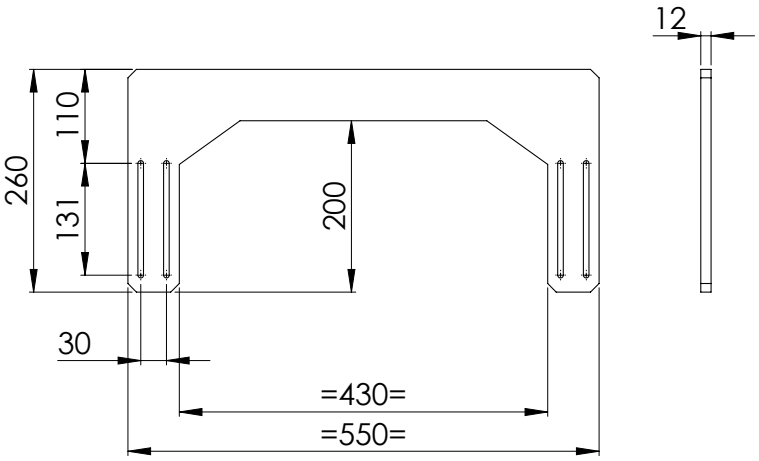
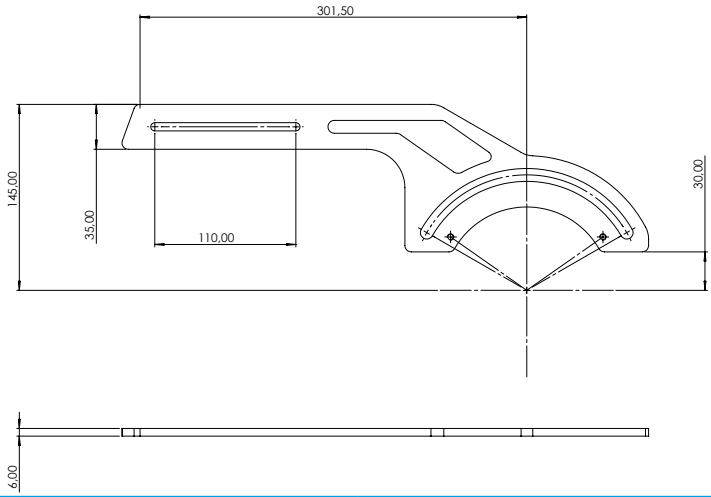
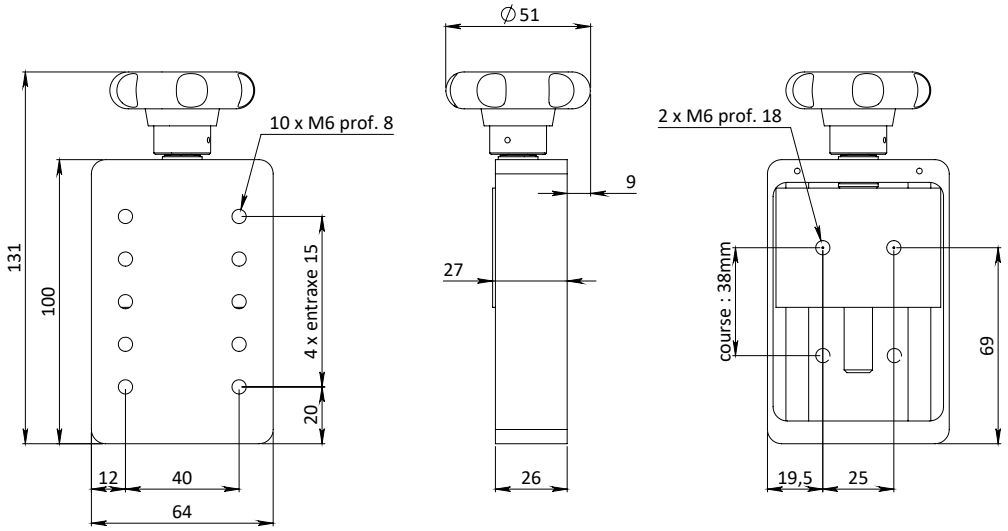
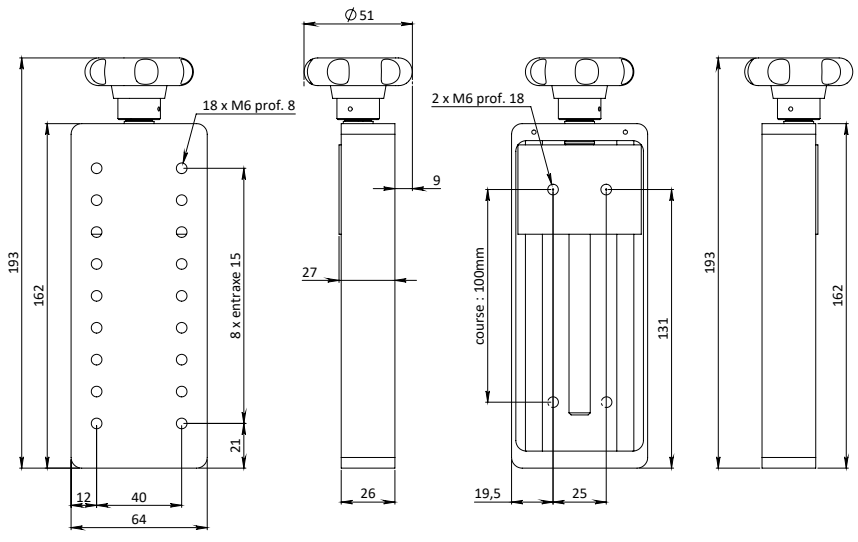
| TORCH HOLDER ARM | |
|---|---|
| Dual torch arm | SV 00095 0001 |
|  |   |
| Angular adjusting arm | SV 00294 0000 |
|  |   |

## MANUAL AXES

| | | |
|---|---|---|
| Monobloc dual slide |  | SV 00190 1100 |
| Standard manual slide - 38 mm stroke |  | SV 00191 1100 |




| | | |
|---|---|---|
| Manual slide 100 mm stroke |  | SV 00234 0000 |



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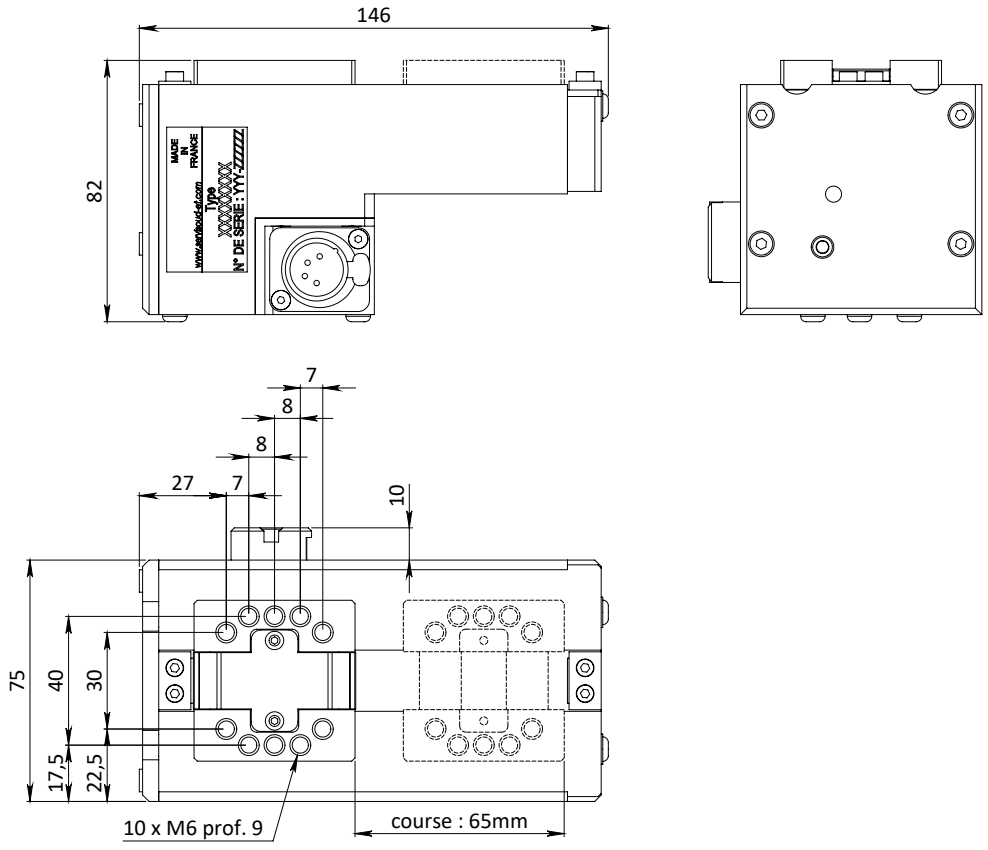
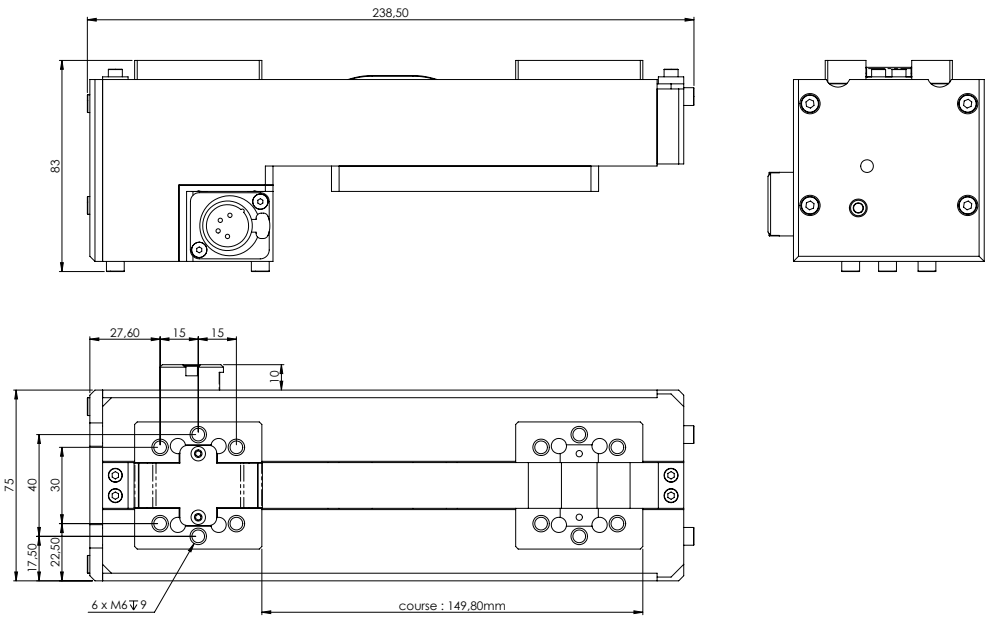
| MOTORISED AXES | | |
|---|---|---|
| Linear axis 65 mm stroke<br>cable 250 mm |  | SV 95800 1000 |
| Linear axis 65 mm stroke, no cable |  | SV 95800 2000 |
| Cable for motorised axis |  | 250 mm: ART 05406 |
| | | 400 mm: ART 05407 |
| | | 600 mm: ART 14096 |
| | | 750 mm: ART 14097 |



| MOTORISED AXES | | |
|---|---|---|
| Linear axis<br>145 mm stroke<br>Cable 400 mm |  | SV 95801 1000 |
| Linear axis<br>145 mm stroke<br>No cable |  | SV 95801 2000 |
| Cable for motorised axis |  | 250 mm: ART 05406<br>400 mm: ART 05407<br>600 mm: ART 14096<br>750 mm: ART 14097 |



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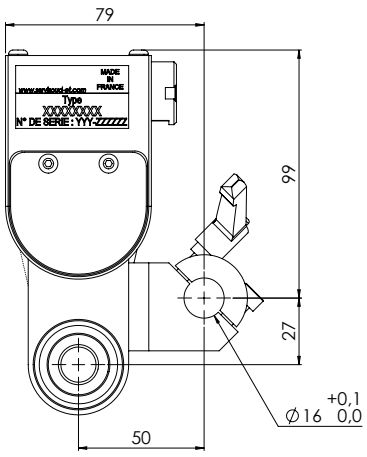
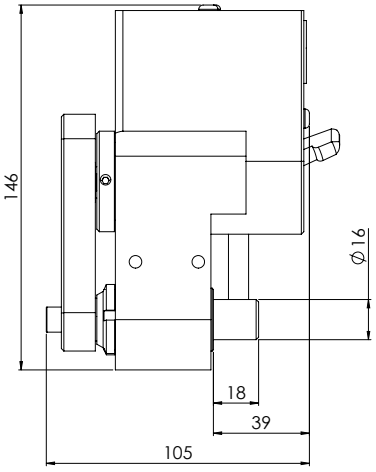
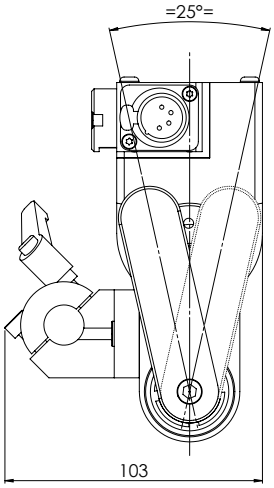
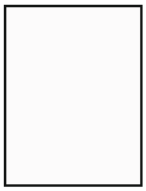
| MOTORISED AXES | | |
|---|---|---|
| Angular axis<br>25° stroke<br>Cable 400 mm |  | SV 95900 1000 |
| Full angular axis<br>25° stroke<br>Cable 400 mm |  | SV 95900 2000 |
| Angular axis<br>25° stroke<br>No cable |  | SV 95900 3000 |
| Cable for motorised axis |  | 250 mm: ART 05406<br>400 mm: ART 05407<br>600 mm: ART 14096<br>750 mm: ART 14097 |



| CONTROLLER | | |
|---|---|---|
| Simple interface |  | SV 95601 1000 |
| SERVIBOT RC controller (2-Button HMI) |  | SV 95701 1000 |
| SERVIBOT RC controller (4-Button HMI) |  | SV 95701 2000 |
| Simple interface screen protection |  | ART 14179 |
| SERVIBOT RC screen protection |  | ART 12509 |
| SERVIBOT RC Controller shell (delivered with neck strap) |  | SV 00487 0000 |



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| COMMUNICATION | | EVO RANGE |
|---|---|---|
| Communication unit (long network cable 50 cm included) |  | SV 80101 2000 |
| Male/female XLR accessories cable |  | 2 m: SV 00664 0000 |
| | | 5 m: SV 00665 0000 |
| | | 10 m: SV 00666 0000 |
| | | 15 m: SV 00667 0000 |

| TRANSPORT CASE | | |
|---|---|---|
| Worksite wheelcase<br>(or the TRACKMAG® or accessories) |  | ART 14312 |
| GLUMAG® wheelcase<br>(for all SERVIBOT carriages) |  | ART 14311 |
| Wheelcase fitted with handles<br>(for all SERVIBOT carriages and related accessories) |  | ART 05870 |
| Wooden box<br>63x48x39 cm |  | PACK0027 |
| TRACKMAG track bag<br>150 cm<br>(4 tracks max) |  | ART 13841 |
| Wooden box for rails<br>(With handles and hinges)<br>156 x 25 x 21 cm |  | ART 15991 |
| Wooden box for rails<br>RAILMAG® 60 or RAILMAG® 90<br>220(320) x 25 x 36 cm<br>(10 rails max) |  | 2 m: ART 22254<br>3 m: ART 22255 |



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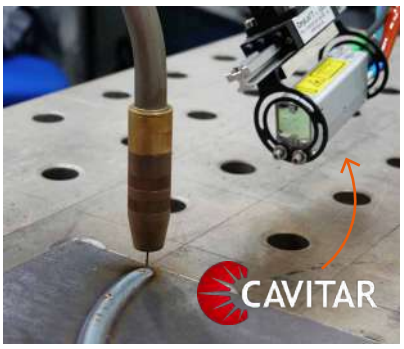
# SERVICAM Range

## Welding supervision and monitoring

SERVISOUD, in partnership with CAVITAR, offers an innovative **welding supervision** system.



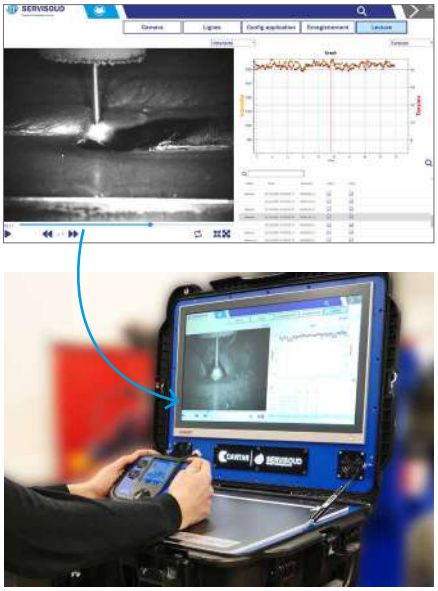

A revolutionary welding camera based on a **laser illumination technology** that lets the operator see through the welding arc.

SERVICAM: a portable equipment used to **view, record and analyse** the welding operation.


### Accessories:

- Computer accessories *(industrial mouse and keyboard)*
- Articulated arm camera mount

## SERVICAM APPLICATIONS



### 1) Associated with a CAVITAR camera: VIEWING

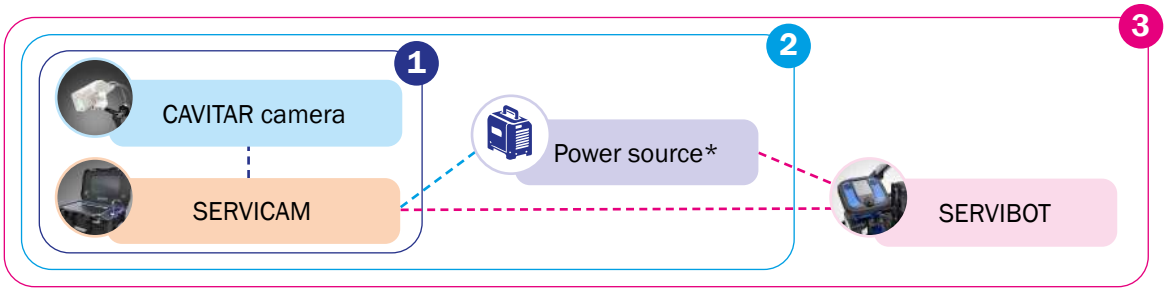
- Viewing of the welding operation
- Recording of the image

### 2) Associated with a welding source: MONITORING

- Display of generator settings alongside the image
- Recording and playback of settings synchronised with the images

### 3) Associated with a SERVIBOT mechanisation equipment: TELEOPERATION

- Welding teleoperation with SERVIBOT RC remote control
- Display of SERVIBOT system settings and welding energy (heat input)




## OTHER APPLICATIONS:

- Faster welding training (manual, mechanised, automated, etc.)
- Understanding of complex welding phenomena (settings search, defect analysis, etc.)

## QUALITY & SAFETY

Our portable welding supervision and monitoring solution guarantees **productivity, quality, and welder safety**:

- The real-time vision function enables control of welding settings and welding energy
- Fault analysis that records settings and videos
- Traceability of welding data
- Weld operators remain distant from fumes and radiation
- Improved working comfort (workstation ergonomics) and prevention of MSDs (Musculoskeletal Disorders)



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# CONFIGURATIONS
# SERVICAM

1

SERVICAM 15” case

2

SERVICAM 21” case

3

SERVICAM unit

4

SERVICAM C300

| | DESIGNATIONS | PART NUMBERS |
|---|---|---|
| 1 | SERVICAM 15” case | SV 84000 1000 |
| 2 | SERVICAM 21” case | SV 84000 2000 |
| 3 | SERVICAM unit | on request |
| 4 | SERVICAM C300<br>(C300 camera with 1 software licence) | KITCAMC300 |

## TECHNICAL CHARACTERISTICS

| | SERVICAM 15” screen | SERVICAM 21” screen |
|---|---|---|
| Dimensions (L x W x H) | 600 x 400 x 340 mm | 650 x 510 x 300 mm |
| Weight without accessories | 15 kg | 22 kg |
| Weight with accessories | 21 kg | 28 kg |
| Connectors | 2 cameras, 1 GbE com port, 1 HDMI, 2 USB | |
| Compatible procedures | MIG/MAG, TIG, PLASMA, Hybrid procedures | |

# Accessories for the **SERVICAM range**

| DESIGNATIONS | ILLUSTRATIONS | PART NUMBERS |
|---|---|---|
| C300 camera (SERVICAM software not supplied) |  | CAME0003 |
| C400 camera (SERVICAM software not supplied) |  | CAME0004 |
| SERVICAM software licence |  | SOFT0012 |
| Detachable camera bundle 0.5m |  | SV 84005 1000 |
| Extension / PC adapter bundle |  | SV 84006 1000 |
| Prism 90° |  | SV 84003 0100 |
| C300 camera protective screen (set of 5) |  | Plastic: VITR0005-SET5<br>Glass: VERR0049-SET5 |
| Detachable extension Camera / Case |  | 5 m: SV 84004 1000<br>10 m: SV 84004 2000<br>15 m: SV 84004 3000 |



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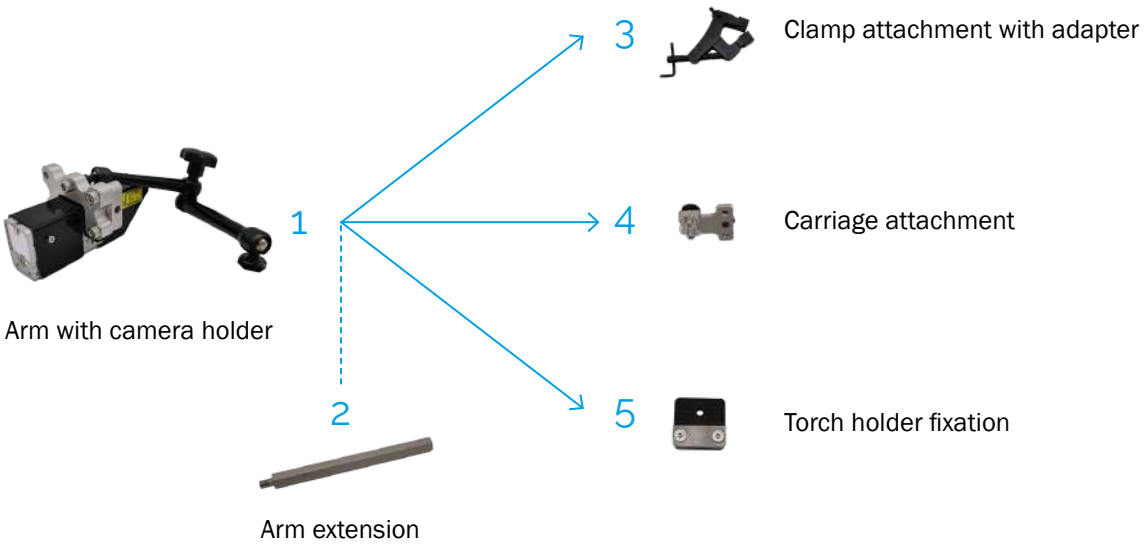



| | | |
|---|---|---|
| 1 + 2 + 3<br>C300 camera holder - clamp |  | SV 84003 2000 |
| 1 + 2 + 4<br>C300 camera holder - carriage |  | SV 84003 1000 |
| 1<br>Arm with C300 camera holder |  | SV 84003 0200 |
| 2<br>Arm extension |  | SV 00626 0000 |
| 3<br>Clamp attachment with adapter |  | SV 84003 0210 |
| 4<br>Carriage attachment |  | SV 84003 0220 |
| 5<br>Torch holder attachment |  | SV 84003 0230 |

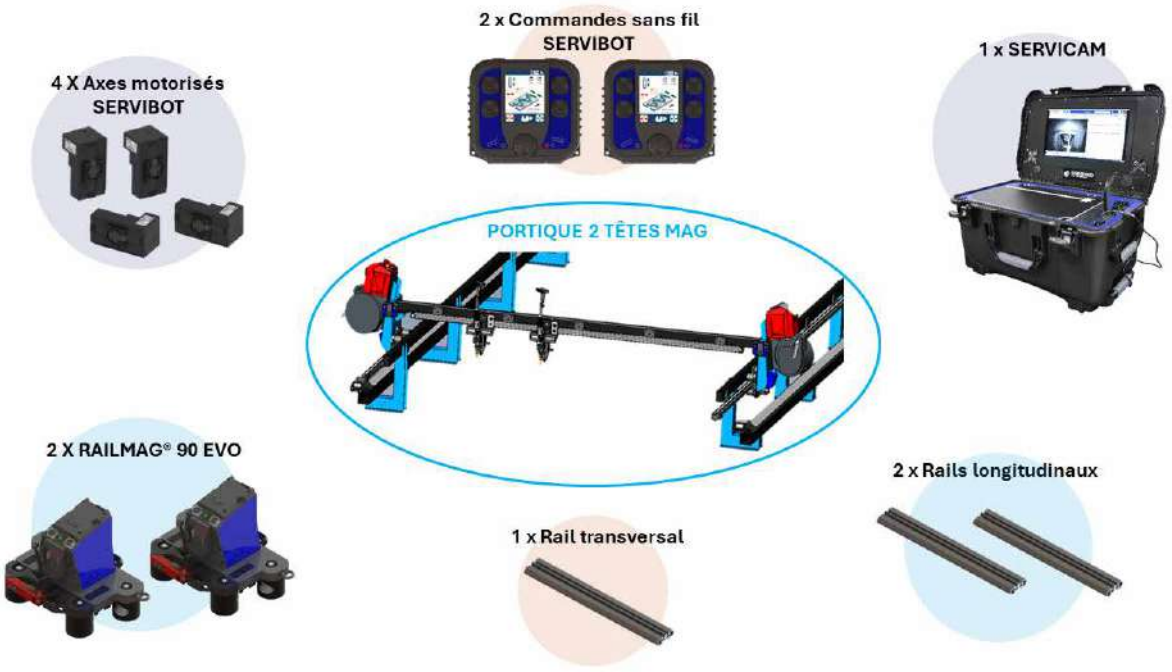
# MODULAR MECHANISATION

To further develop our welding mechanisation solutions and **meet specific customer needs**, SERVISOUD designs and manufactures equipment based on **standard SERVIBOT modules**.

By combining SERVIBOT modules, proven in numerous industries with our standard solutions, we can offer reliable, budget-friendly, special-purpose machines.

This modular mechanisation solution provides a **simple alternative to cobotic and robotic solutions**.

## Example: Dual-head welding gantry




This gantry mainly comprises standard equipment, simplifying maintenance management over the long term. Another advantage over conventional special-purpose machines is the ability to **share uses and reuse modules** to rebuild a new system for another application.



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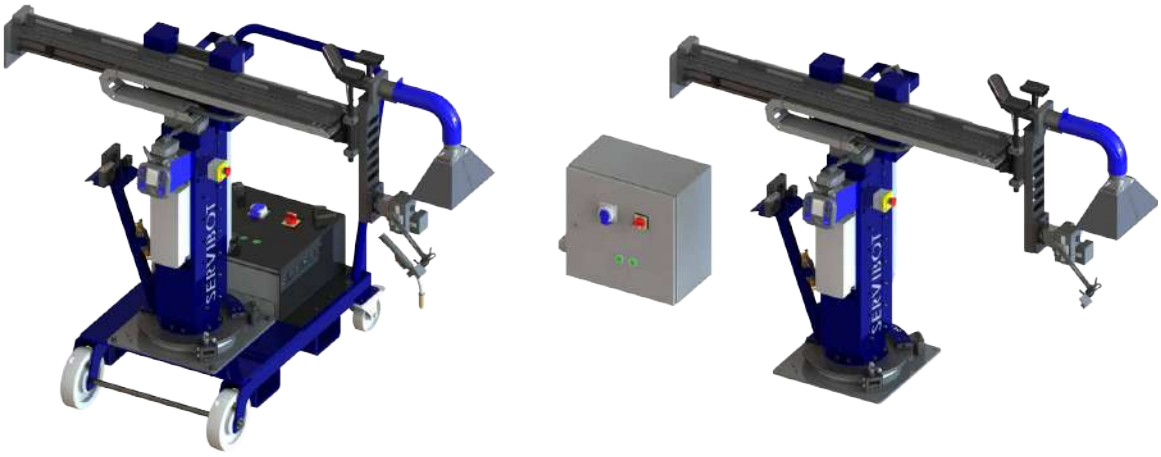
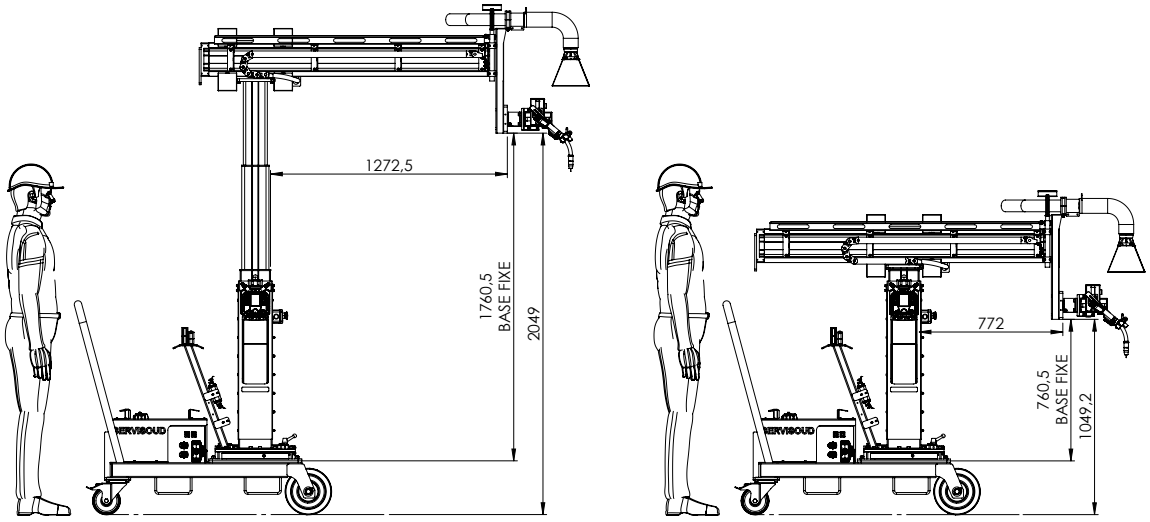
# Example of modular mechanisation: 1X1 column and boom






Already installed in several workshops, the SERVIBOT mobile boom is an example of modularity.

A compact boom that can be moved by a single operator, it can interface with several positioners, turning gears, and welding power source in the workshop.

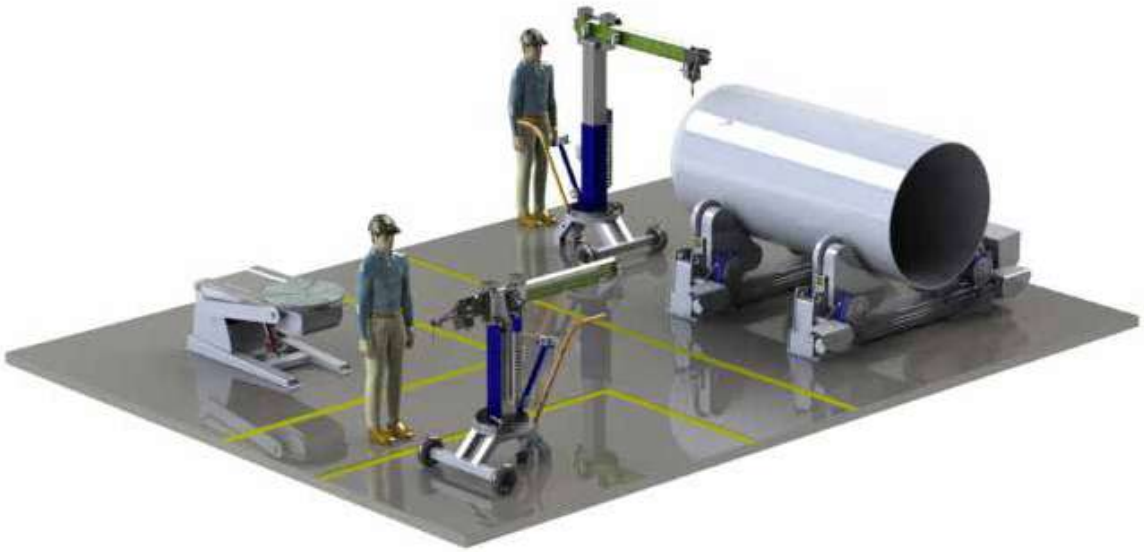
By centralising the controls, the weld operator can **synchronise welding movements and adjust settings in real time,** using a single remote control (the SERVIBOT RC), even while welding is in progress.

| | SERVIBOT BOOM |
|---|---|
| Stroke | 1 m x 1 m |
| Under arm height | 2.3 m in max. extension |
| Load capacity | 40 kg at the end of the arm |
| Weight (mobile version) | 290 kg |

## RELATED PRODUCTS

SERVICAM
for teleoperation

External axis box used to control and synchronise positioning equipment (turning gear, positioner)

## Example of a custom-designed carriage developed for a customer application: T-MAG

Developed specifically for T-foot welding on naval panels.

- Based on standard carriage modules.
- The system enables rapid vertical retraction of the torch arm in order to pass through stiffeners or rails perpendicular to the T to be welded.
- The system is mechanically tracked on a gravity-supported roller.



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# SERVICES: SUPPORT AND TRAINING

## Welding lab

Located in Carquefou, our specialist lab is fully equipped to perform customised welding tests and trials.

Whether to validate the feasibility of your projects, to optimise your weld settings, or to demonstrate the effectiveness of our autonomous, programmable welding carriages, we support and assist you at every step in the process.

## Training and on-site support

To ensure **optimal integration of our welding carriages** into your industrial processes, we offer a comprehensive **on-site training and support service**.

Our team of expert welders will travel directly to your production site to **commission your equipment and guide you through its operation.**

We also offer **practical, personalised training** to enable your teams to **quickly and effectively** master the use of our carriages.

| DESIGNATIONS | PART NUMBERS |
|---|---|
| On-site training - 1 day of travel included | SRVB 00001 |
| On-site training - 1 additional day | SRVB 00002 |
| Remote training - 1/2 day | SRVB 00003 |

## Tutorials to guide you step by step

To provide you with ongoing support, we offer a series of video tutorials on our YouTube channel.
This practical and easily accessible content **guides you step-by-step through the handling and operation** of our welding carriages. Whether you wish to **explore the features on offer, solve specific welding issues, or perfect your equipment skills,** our videos provide expert advice.

Scan this QR code to access our tutorials!


# EQUIPMENT RENTAL

## Our equipment is available for hire!

You can rent our welding carriages and e**quipment to mechanise your welding operations via our SERVILOC service**.

Our equipment hire service is the perfect option for specific projects or very busy periods, letting you assess the performance of our welding carriages directly in your production environment.

Our mechanisation products available to hire include:

- GLUMAG® ORIGINAL and EVO range
- TRACKMAG® EVO range (with RC and LITE SERVIBOT order)
- RAILMAG® 60 EVO range
- ROTOMAG-B EVO range
- SERVICAM (15" case and CAVITAR camera)
- 1x1 Mobile column and boom


Check out our catalogue for details on all our products available for rent!

**Call us at +33 (0) 2 40 90 29 05 to discuss your rental request!**



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# GENERAL TERMS AND CONDITIONS OF SALE

## 1/ General description

1.1. EUROPE TECHNOLOGIES SAS is a company governed by French law, registered with the Nantes Trade and Companies Register under N°417 784 592, having its head office at 2 rue de la Fonderie, BP 20536, 44475 Carquefou Cedex, France. Hereafter "EUROPE TECHNOLOGIES" refers to EUROPE TECHNOLOGIES SAS and its subsidiaries, specifically: EMPOWERING TECHNOLOGIES, GEBE2, GOBIO, SERVISOUD, SONATS, SONIMAT, ORATECH INNOVATION, PRODESS, company represented by Mr Patrick CHEPPE as President.

1.2. Contractual relations between EUROPE TECHNOLOGIES and its Customers (hereafter assumed to be resellers and/or professionals) are managed exclusively in the following decreasing order of priority:

by the special terms and conditions set out in the commercial and technical documentation issued by EUROPE TECHNOLOGIES, in particular, its proposals, Customer order forms, order confirmations, delivery notes, invoices, the catalogue, price lists, etc.

by the commercial and technical documentation issued by the Customer, provided that these have been exclusively accepted in writing by EUROPE TECHNOLOGIES.

by these general terms and conditions relating to supplies.

EUROPE TECHNOLOGIES' proposals or estimates are valid for one (1) month as from their date of issue. Should this deadline be exceeded, EUROPE TECHNOLOGIES' specific commercial term and conditions, set out in the EUROPE TECHNOLOGIES proposal or estimate, will have to be confirmed in writing by EUROPE TECHNOLOGIES, notably in terms of deadlines or pricing.

## 2/ Price

2.1. Unless otherwise specified, prices are given in Euros EXW (ICC incoterms-2010) EUROPE TECHNOLOGIES factory – CARQUEFOU (44475) France, excluding shipping or service costs such as assembly, installation, commissioning, etc.

2.2. Prices are set and take account of the current economic conditions on the day of the proposal. In the event of a fluctuation in these conditions, EUROPE TECHNOLOGIES reserves the right to modify these prices without notice. The prices applied to standard products or repetitive services are those in effect at the time of delivery. The value added tax (VAT) invoiced is the legal rate at the time of invoicing. The Customer shall pay any taxes, duties, and other charges, including but not limited to, sales, usage, excise, value added, holdbacks, and similar taxes, based on payments to be made to EUROPE TECHNOLOGIES in any jurisdiction when such taxes apply, excluding local taxes based on EUROPE TECHNOLOGIES' net income. Should the Customer be required to withhold, deduct or pay tax on the amount of fees payable under this Agreement, they shall pay such additional amounts to EUROPE TECHNOLOGIES, so that EUROPE TECHNOLOGIES receives an amount equivalent to that which it would have received if such withholding, deduction or payment had not proved necessary. Unless otherwise specified, the selling prices of systems ordered based on estimates are deemed subject to revision by EUROPE TECHNOLOGIES at least in compliance with the conditions applicable by its own suppliers or subcontractors.

2.3. For additional supplies, the price and the revised deadlines shall be discussed specifically between EUROPE TECHNOLOGIES and the Customer. In no case may the terms and conditions governing any additional supplies be detrimental to those of the main agreement.

## 3/ Confidentiality - Industrial and intellectual property rights - studies and projects

3.1. The term "Confidential Information" means all information or data (including all oral and visual information and data and all information or data recorded in writing or by any other means or method) communicated to or obtained by the

Customer from EUROPE TECHNOLOGIES with no prejudice to the generality of the foregoing definition. The term "Confidential Information" includes, but is not limited to, any information that can be verified by inspection or analysis of samples, and any information relating to operations, processes, drawings, intentions, product information, knowledge, design rights, intellectual property, trade secrets, software, market opportunities, Customers or business.

3.2. The Customer agrees to make sure that the Information remains confidential and shall not disclose and/or communicate it in any way to third parties without the prior written consent of EUROPE TECHNOLOGIES. The Customer is prohibited from disclosing their business relations with EUROPE TECHNOLOGIES without the prior written consent of EUROPE TECHNOLOGIES.

3.3. Unless otherwise specified, EUROPE TECHNOLOGIES shall remain the exclusive owner

of all information, all concepts (ideas or strategies, methodologies, etc.), all specifications, all documents (drawings, diagrams, design notes, test reports), all objects (models, samples, specimens, etc.), including copyrights, expertise patents, implemented for the purposes of design, study, research and development, technical assistance and any other service. At the end of this Agreement, the Customer shall automatically return to EUROPE TECHNOLOGIES all documents, objects, etc. listed in the above paragraph.

3.4. Unless otherwise specified, EUROPE TECHNOLOGIES shall remain the exclusive owner of the results obtained as part of the design, study, research and development, as well as of all other work carried out under this Agreement. Generally speaking, the Customer may use the industrial and intellectual property rights belonging to EUROPE TECHNOLOGIES (including those resulting from studies, research and other agreements) only if a license agreement has been signed, even if the right of use is granted free of charge.

3.5. Should a third party bring a lawsuit involving (i) the Customer's requirements, a transfer of documents or expertise from the Customer to EUROPE TECHNOLOGIES, (ii) the Customer's modification of products following their delivery, (iii ) the

use of EUROPE TECHNOLOGIES products, (iv) the use of EUROPE TECHNOLOGIES products in such a way that the Customer violates the rights of said third party, EUROPE TECHNOLOGIES shall not be held liable, and the Customer, at their own expense, shall protect EUROPE TECHNOLOGIES against any resulting actions or proceedings. The Customer shall promptly notify EUROPE TECHNOLOGIES of any action or proceedings based on the assertion that the EUROPE TECHNOLOGIES item(s) constitute an infringement of third-party intellectual property rights. Should a EUROPE TECHNOLOGIES product (hardware and/or embedded software) be recognised by a final decision of a court having jurisdiction, or by a settlement approved in writing by EUROPE TECHNOLOGIES, as constituting a breach of third-party rights concerning one or several granted patents having at least one or more corresponding patent(s) recognised by an international patent and trademark office (in force on the date of the order form) or of copyrighted work, EUROPE TECHNOLOGIES shall, excluding any other compensation, decide its own option to retain the right to continue to use this product (or a part of it); to modify said product to ensure its compliance; or to withdraw said product and refund the purchased price. This paragraph describes the full scope of EUROPE TECHNOLOGIES' liability and the Customer's sole remedy in relation to any claim concerning a breach of intellectual property rights.

3.6. Unless otherwise specified, the study, research and development, technical assistance, and any other service performed by EUROPE TECHNOLOGIES on behalf of a Customer can be invoiced even if not specifically covered by an order, provided that the Customer's acceptance is deemed sufficient in the context of a collaboration between EUROPE TECHNOLOGIES and the Customer, specifically via the exchange of information.

## 4/ Limitations of supply

4.1. Should the delivered products or services be incorporated as elements of a system, EUROPE TECHNOLOGIES shall not be deemed liable as prime contractor of the overall project in which its supply is incorporated, in its capacity as subcontractor In particular, EUROPE TECHNOLOGIES shall not be held liable for its products' compatibility with other products for which it has not recognised compatibility. All technical support services must be performed by supplying the personnel who will work under the Customer's technical liability for the project and the prime contractor. The Customer shall be responsible for choosing a standard product. EUROPE TECHNOLOGIES shall not be required to advise the Customer, unless expressly requested by the Customer. The Customer shall be responsible for all the information they provide.

4.2. Unless otherwise specified, the shape, dimensions, weight and other characteristics and function-related specifications for the product(s) or service(s) shown in the catalogue, such as brochures, price lists, advertising, samples, etc. issued by EUROPE TECHNOLOGIES, are provided for information purposes only.

4.3. EUROPE TECHNOLOGIES reserves the right to modify, at any time, certain specifications of their supplies in cases where these modifications do not affect the main characteristics of the supplies, and provided that EUROPE TECHNOLOGIES replaces them with characteristics that ensure equivalent quality and performance, even if they should use different means.

4.4. Unless otherwise specified, EUROPE TECHNOLOGIES shall not be responsible for obtaining, on behalf of the Customer and prior to delivery of the products or services, the licenses and/or

authorisations required by the laws and regulations in the Customer's country, or in their country of origin, departure or destination, in particular in the event of a final destination control during re-export by the Customer The Customer agrees to obtain itself all the necessary authorisations, providing documentary proof where necessary, and to submit to EUROPE TECHNOLOGIES any information on the middlemen and successive users of said products or services, and to communicate this reporting obligation to them. The delivery of products or services by EUROPE TECHNOLOGIES may be subject to prior authorisation by the French government concerning European regulations for the control of exports, transfers, brokering and transit of dual-use items (Council regulation (EC) N°428/2009) In the event of a refusal by the French government, the agreement or the order shall be terminated with no compensation nor expense to the Customer.

4.5. Should the products, services or systems supplied consist, in whole or in part, of imported items, the Customer shall be responsible for specifying to EUROPE TECHNOLOGIES the mandatory laws and regulations, in particular with regard to standardisation, health and safety.

## 5/ Inspection - tests

5.1. Unless otherwise specified, inspections and tests must be carried out at the site where the products are manufactured.

5.2. The Customer must be notified eight (8) days before the scheduled date of the inspection. Should the Customer not be duly notified, the inspections and tests shall be deemed valid after full acceptance by both Parties.

5.3. Should the Customer request other inspections and tests, which have to be carried out at other sites, said inspections and tests shall be carried out at the Customer's expense and deemed valid after full acceptance by both parties.

## 6/ Deliveries - shipments - transfer of risk - claims

6.1. Delivery and transfer of risks are deemed to have been completed once the products and/or services are made available before unloading at the place indicated by EUROPE TECHNOLOGIES. Unless otherwise specified, this action of making the products and/or services available is deemed completed upon departure from the manufacturing site, regardless of the methods used for this delivery.

6.2. The use by the Customer of products or systems requiring a commissioning phase on its operational site automatically implies their reception, the transfer of risks and the beginning of the contractual warranty period, independently of any reservations expressed elsewhere by the Customer.

6.3. The delivery period starts as from the date on which EUROPE TECHNOLOGIES confirms the order, unless the completion of the order depends on the fulfilment of a prior condition, such as a partial payment. In this case, the delivery period begins once this condition is met.

6.4. Unless otherwise indicated, delivery times are provisional estimates and every reasonable effort must be made to respect them: unless otherwise stipulated in the Agreement, delays in delivery in relation to the agreed deadline shall not give grounds for cancelling the order nor incur penalties. Only timely ad hoc agreements can stipulate penalties or remedies, which, in any case, cannot exceed five percent (5%), excluding VAT, of the value of the undelivered products or services, and which shall definitively settle any Customer claim relating to this delay. In any event, compensation shall only be applied if the delay is attributable to EUROPE TECHNOLOGIES, if the Customer has duly notified EUROPE TECHNOLOGIES by registered letter, and if the delay has caused actual damage following full acceptance by both Parties.

Delivery times shall be suspended, and EUROPE TECHNOLOGIES shall be exonerated and shall not be held liable for any failure or delay in delivery under the following circumstances:

- The Customer failed to provide the necessary information in time;
- The Customer failed to comply with the terms of payment;
- An uncontrollable event has occurred, through no fault or negligence of EUROPE TECHNOLOGIES.

6.5. Should the Customer fail to receive delivery after notice of availability, they shall be subject to a claim of one percent (1%) of the value of the products per month of delay to cover storage costs.

6.6. EUROPE TECHNOLOGIES reserves the right to make partial deliveries.

6.7. Any transaction relating to shipping, insurance, customs duties, concessions, handling, etc. arising from delivery to the site shall be at the expense and

risk of the Customer, who shall be responsible for checking applicable shipments, against the shipper. In cases where EUROPE TECHNOLOGIES handles shipments, packaging and shipping shall be carried out at the lowest possible cost, unless otherwise expressly requested by the Customer, in which case the Customer shall be fully liable.

6.8. If an official acceptance report has not been drawn up and duly signed following full acceptance by both parties, claims relating to visible defects, or the configuration and quantities of the delivered products, or their non-compliance with the delivery documents, must be formulated within eight (8) days of the products' date of delivery, with no prejudice to provisions concerning the shipper; otherwise these claims shall not be accepted. Such claims must be made prior to any conversion or rectification. No product may be returned to EUROPE TECHNOLOGIES without prior written authorisation. In such cases, the Customer shall ship the returned product FOB to the address indicated by EUROPE TECHNOLOGIES. EUROPE TECHNOLOGIES cannot be held liable for the loss or damage of returned products.

## 7/ Maintenance and commissioning

7.1. Should EUROPE TECHNOLOGIES ensure the installation and commissioning of its supplies, these services shall be carried out by EUROPE TECHNOLOGIES technicians or technicians approved by EUROPE TECHNOLOGIES, and may only involve:

- Setting up connections between EUROPE TECHNOLOGIES products;
- Testing and commissioning;
- Training the Customer in the use of the product.

7.2. The Customer, or a contractor chosen by the Customer, shall perform all other services, specifically project management services, technical inspections, on-site work, and shall be solely liable for these services. Preparatory work must be completed prior to the installers' arrival. Should, upon the Customer's request, EUROPE TECHNOLOGIES accept to deliver the equipment prior to works completion, the Customer shall be solely liable for all risks and expenses concerning damage to or loss of the equipment and/or resulting from the removal operations to new sites or extended deadlines. Neither the instructions in the technical documents provided by EUROPE TECHNOLOGIES, nor its participation in site meetings, nor the signing of an official site acceptance report can confer to EUROPE TECHNOLOGIES any liability as site contractor.

Unless otherwise specified, the services referred to in article 7.1 will be performed at the Customer's risk.

## 8/ Terms of payment

8.1. Unless otherwise specified, payment shall be made net with no discount on the due date indicated on the invoice. In the event of a reduced payment, only the VAT corresponding to the price actually paid shall entitle the Customer to said reduction.

8.2. Should EUROPE TECHNOLOGIES accept payment instalments, the Customer's failure to pay a single instalment shall entitle EUROPE TECHNOLOGIES to demand immediate payment of the remainder of the price for the relevant supply and of all other outstanding amounts, even though such other supplies may not yet be due. The same procedure applies in the event of sale, assignment, mortgage and contribution to the Customer's goodwill.

8.3. Under Article L. 441-6 of the French Commercial Code, should the sums due be paid after the due date indicated on the invoice, interest shall apply without written notice and equivalent to three times (3 x) the legal interest rate in force in France, increased by five percent (5%), with a minimum of forty (€40) euros.

8.4. Moreover, should it be necessary to recover receivables through court proceedings, EUROPE TECHNOLOGIES shall be entitled to claim reimbursement of its legal costs together with compensation of at least ten percent (10%) of said receivables.

8.5. The Customer shall not, under any circumstances, be authorised to withhold all or part of the sums due and to use them as compensation arising from a claim against EUROPE TECHNOLOGIES.

## 9/ Retention of ownership

9.1. EUROPE TECHNOLOGIES shall retain ownership rights to the products and services until their prices have been fully paid and effectively credited. EUROPE TECHNOLOGIES also retains the right to repossess these products and services, should payment not be completed. The Customer shall inform their sub-purchasers of the retention of ownership clause. Should the Customer become insolvent or go into receivership, EUROPE TECHNOLOGIES retains the right to claim all debts still due from the sub-purchasers. The Customer shall notify EUROPE TECHNOLOGIES of sub-purchaser addresses and other relevant information accordingly.


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9.2. Should the Customer fail to pay for standard products, EUROPE TECHNOLOGIES shall be entitled to repossess identical products in the Customer's stock without EUROPE TECHNOLOGIES having to prove that they are identical to the products delivered and not paid for.

9.3. EUROPE TECHNOLOGIES shall retain ownership rights to the supplies insofar as they are removable. Otherwise, EUROPE TECHNOLOGIES shall become co-owner of the finished product in proportion to its rights. The Customer shall pay any repair and/or servicing costs for the returned supplies.

## 10/ Warranties

Subject to specific terms and conditions for the product range to which the delivered products belong, EUROPE TECHNOLOGIES guarantees that all delivered products shall be free of manufacturing and workmanship defects for a maximum period of one (1) year from the date of delivery. Should the delivery be postponed for reasons beyond EUROPE TECHNOLOGIES' control, the warranty period shall begin on the delivery date initially scheduled. Software product warranties shall be limited to the correction of reproducible errors to allow execution of the instructions contained in the defective programme via the delivery of a patch. At EUROPE TECHNOLOGIES's discretion, the warranty shall be limited to the repair or replacement by equivalent components of all the articles present in a product affected by a latent defect that pre-existed the delivery. The EUROPE TECHNOLOGIES warranty shall apply solely to defects that appear under the operating conditions provided for in the Agreement, and deriving from proper use of the Products. This warranty shall not apply to replacements or repairs deriving from:

damage or accidents due to poor supervision or maintenance, or use of the Products by persons not trained by EUROPE TECHNOLOGIES;

- excessive or inappropriate use of the products;
- defects resulting from materials supplied or a design stipulated or specified by the Customer;
- defects caused by external factors such as faulty construction work, unsuitable floor coverings, EUROPE TECHNOLOGIES shall not be held liable for normal wear and tear of the products or damage due to chemical, atmospheric, electrical or other effects for which EUROPE TECHNOLOGIES cannot be held liable.

This warranty shall no longer apply should the Customer modify, incorporate or repair the original product. Replaced parts shall become the property of EUROPE TECHNOLOGIES. The replacement of parts during the warranty period shall not extend said products' warranty period. Unless otherwise specified, second-hand parts and spare parts are not covered by the contractual warranty set out in this Article. The Customer shall grant EUROPE TECHNOLOGIES the time it needs and provide the necessary facilities to remedy the reported defect. Should the Customer refuse, EUROPE TECHNOLOGIES shall be released from all liability. Normal product maintenance shall not be included in this warranty and shall be the subject of a separate Agreement. In any case, the mandatory legal warranty shall apply according to the regulations in force.

## 11/ Liability - Insurance

It is expressly agreed that EUROPE TECHNOLOGIES shall be released from all liability and shall not be held liable for any event beyond its control, in particular following a case of force majeure. Unless otherwise specified, EUROPE TECHNOLOGIES cannot be held liable for the results, in particular in terms of the performance or capabilities of the product or service in relation to a use not intended or not specified by EUROPE TECHNOLOGIES. EUROPE TECHNOLOGIES disclaims all expressed and implied warranties in regard of any possible negotiability. EUROPE TECHNOLOGIES's contractual obligations arise solely from agreements signed in accordance with the provisions laid down in these General Terms and Conditions of Supply; specifically Articles 1, 3 and 4, inclusive. UNDER NO CIRCUMSTANCES SHALL EUROPE TECHNOLOGIES OR THEIR REPRESENTATIVES BE HELD LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF BUSINESS PROFITS, ANY BUSINESS INTERRUPTION, LOSS OF INFORMATION OR DATA) OR FAILURE TO COMPLY WITH THESE TERMS OR THE SUPPLY, PERFORMANCE, OR USE OF PRODUCTS OR SERVICES SOLD, WHETHER IN BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, OR OTHERWISE, EVEN IF THE POSSIBILITY OF SUCH DAMAGES HAS ALREADY BEEN MENTIONED ABOVE. EUROPE TECHNOLOGIES's LIABILITY SHALL NEVER EXCEED THE AGGREGATE TOTAL PRICE EXCLUDING VAT PAID BY THE CUSTOMER. EUROPE TECHNOLOGIES ASSUMES NO LIABILITY FOR ANY CONSEQUENTIAL OR PUNITIVE

DAMAGES, NOR FOR ANY THIRD-PARTY CLAIM, EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN. The Customer shall take out all-risks insurance for the equipment as from its date of delivery, specifically covering damage and loss. The Customer shall also contract appropriate insurance covering all damage likely to incur their professional civil liability as designer and/or project manager.

## 12/ Assignment and Subcontracting

EUROPE TECHNOLOGIES may, unconditionally, assign and/or subcontract all or part of its rights and obligations arising from an agreement for the supply of products and/or services with the Customer to a third party of EUROPE TECHNOLOGIES. Prior to any assignment and/or subcontracting of its rights and obligations arising from an agreement for the supply of products and/or services with EUROPE TECHNOLOGIES, the Customer shall send a written notification to EUROPE TECHNOLOGIES by registered letter, and shall hold EUROPE TECHNOLOGIES harmless against any failure and/or claim by said assignee and/or subcontractor.

## 13/ Agreement termination - order cancellation

The Customer's failure to perform any of their obligations or to remedy such a situation within eight ( 8) days of receiving notification by registered letter from EUROPE TECHNOLOGIES, will authorise EUROPE TECHNOLOGIES to automatically terminate, without legal formalities all or part of the supply Agreement signed with the Customer; to recover the products already delivered; to claim compensation for the damages incurred; and to at least keep the amounts already paid, or should there be no partial payment, to invoice at least ten percent (10%) of the value of the order. This clause also applies to any full or partial cancellation of the order decided unilaterally by the Customer.

## 14/ Applicable law and jurisdiction

All sales and/or services, as well as any dispute or claim arising out of or in connection with this agreement (including disputes or claims of a non-contractual nature), shall be governed by and construed in accordance with French law. The United Nations Convention on Contracts for the International Sale of Goods and, where applicable, any legislation implementing such a convention, shall not apply to any order or sale. Any disputes arising from the interpretation, execution or termination of contractual obligations under this Agreement which are not settled amicably shall be submitted to the competent courts in the jurisdiction of the EUROPE TECHNOLOGIES head office in France, regardless of the approved conditions of supply and terms of payment, and even in cases where one party invokes the liability connected to the guarantee of origin, or even in case of multiple defendants.



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## SERVISOUD CARQUEFOU - Head Office

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## SERVISOUD CAUDAN

**SERVILOC equipment rental - Direct sales store**
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110 Chemin de Locmaria Prantarff
56850 Caudan
Tel: +33 (0)2 97 37 63 47
contact@servisoud.com

## SERVISOUD MONTOIR-DE-BRETAGNE

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44550 Montoir-de-Bretagne
Tel: +33 (0)2 40 90 29 05
Reception desk: +33 (0)2 40 90 07 98
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**Administrative site**
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## SERVISOUD LENCLOÎTRE

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