

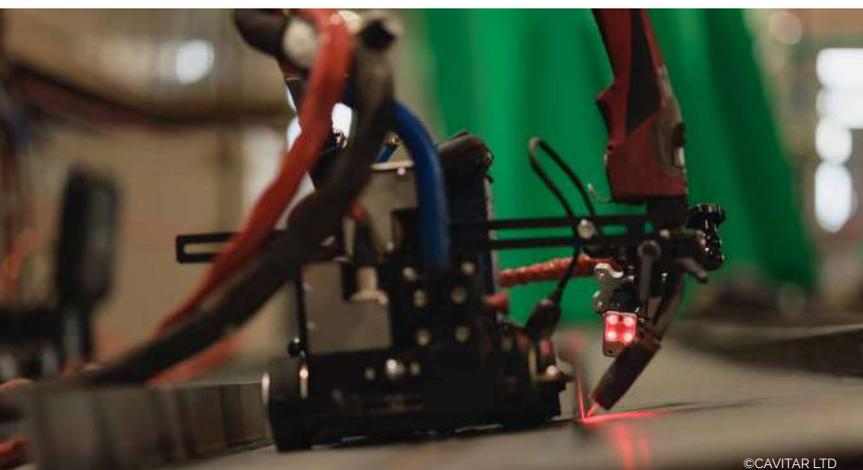


SERVISOUD

Europe Technologies group



SERVIBOT



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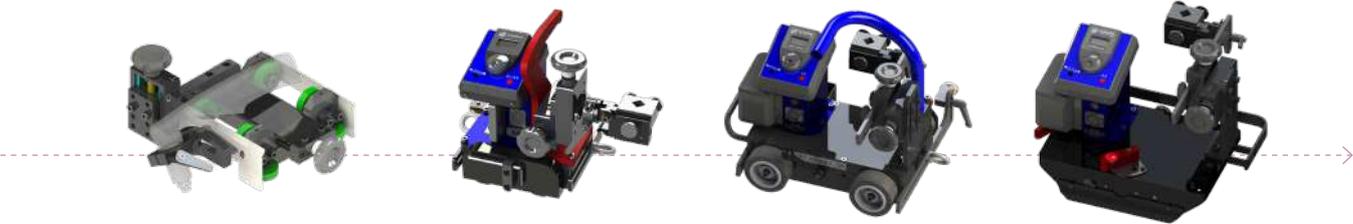


SERVIBOT range - Mechanised welding equipment, programmable autonomous welding carriages, welding function display...

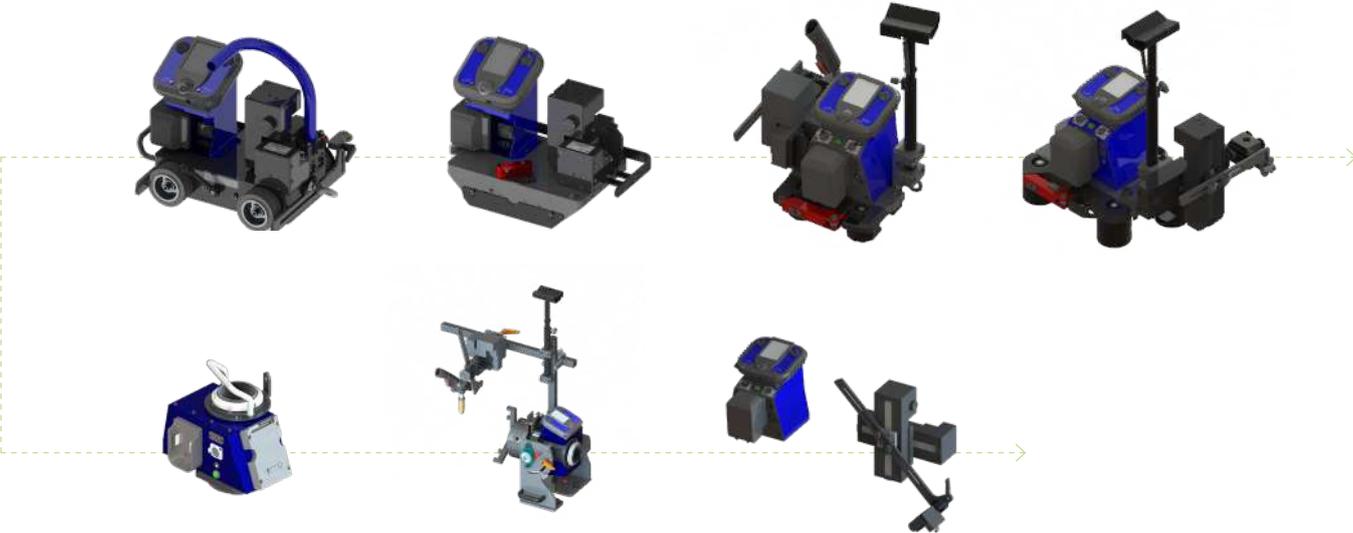
SERVIBOT FAMILY



ORIGINAL RANGE



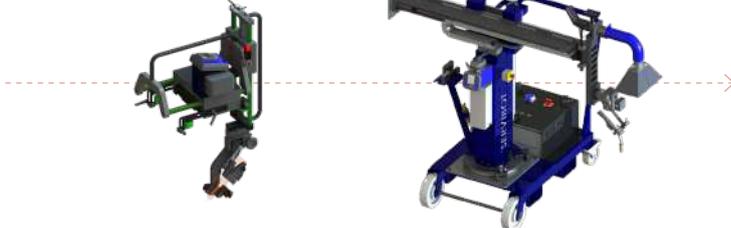
EVO RANGE



SERVICAM RANGE



MODULAR MECHANISATION



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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®



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

Welding fumes and mechanisation

Welding fumes are at the heart of occupational health and safety issues in the welding environment. In recent years, health authorities have taken a particular interest in welding fumes. The associated regulations are becoming stricter in order to protect all potentially exposed professionals as well as co-activity personnel.

The OELs (Occupational Exposure Limits) for carcinogenic fine and ultrafine particles are therefore decreasing each year, forcing employers to implement appropriate safety equipment.

Smoke capture solutions thru building ventilation are commonly used but do not address the issue of very fine particles that can remain in the work environment for a long time.

The individual protection solutions for welders, on the other hand, do not provide protection for other employees present in the environment.

Mechanization offers the possibility, without creating additional constraints for the operator, to capture the fumes at the source.

Several solutions can be proposed depending on the applications:

- The integration of a manual or automatic fume extraction torch
- The design of the extractor hood as close as possible to the emission zone directly integrated into the machines
- The enclosure of the smoke emission area using hoods

These solutions also contribute to **reducing exposure to UV rays** emitted by ARC welding processes.

For any particular issues, SERVISOUD is supported **by specialists in industrial extraction systems for welding.**

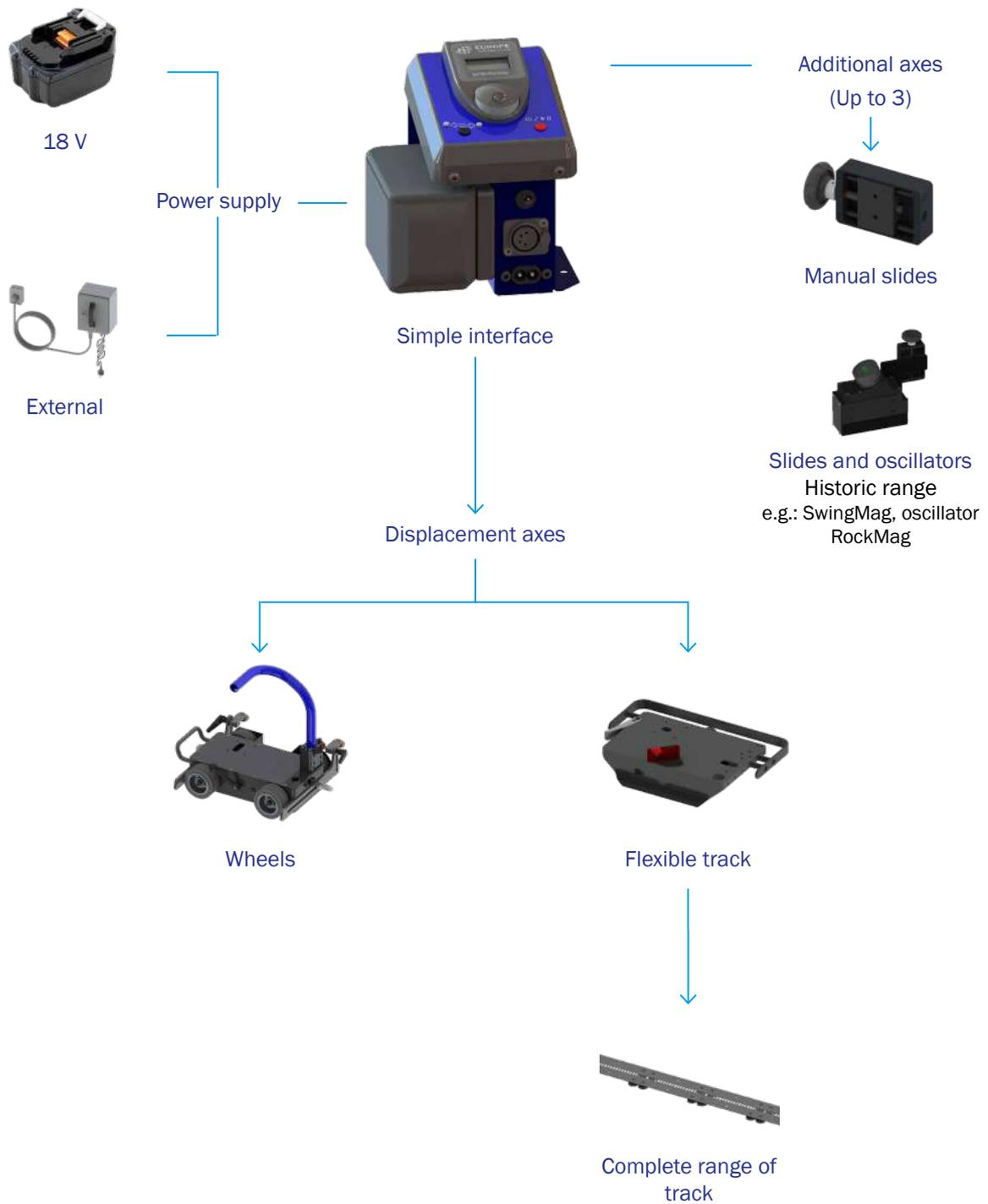


GLUMAG® EVO - Specific source extraction system



TRACKMAG® EVO - Integration of the fume extraction torch

ORIGINAL RANGE



KITS



MIG / MAG



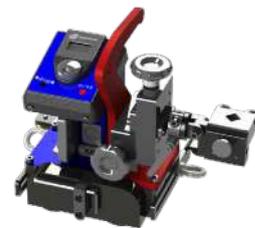
Submerged arc welding



Oxycutting



Plasma cutting

Also in the
ORIGINAL RANGEBeveller
Manual plasma

MAGLIGHT Original

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

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.

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



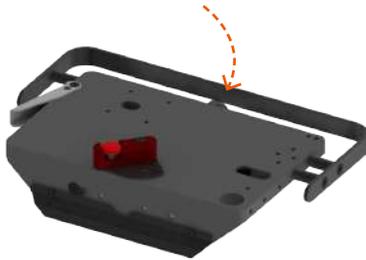
4-wheel drive system is used to optimise traction on the workpiece.

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

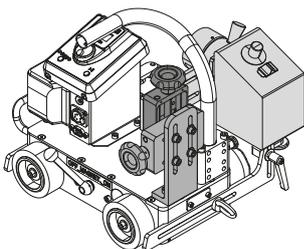
MANUAL SLIDE

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

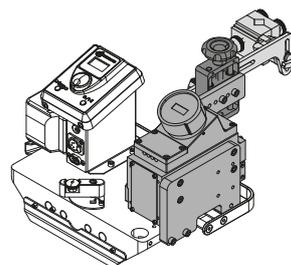


MOTORISED AXES

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

The BEVELLER



Beveler

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	-
Beveler part number	SV 96500 1100				
Optional torch support	Included	SV 00374 1000	SV 00374 2000	Included	SV 00374 3000

**BEVELLER
PLASMA CUTTING**



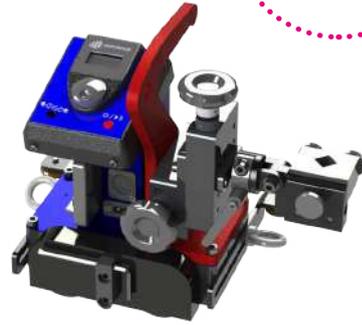
Configuration MAGLIGHT ORIGINAL

**NEW
2026**

1



MAGLIGHT Original
Only

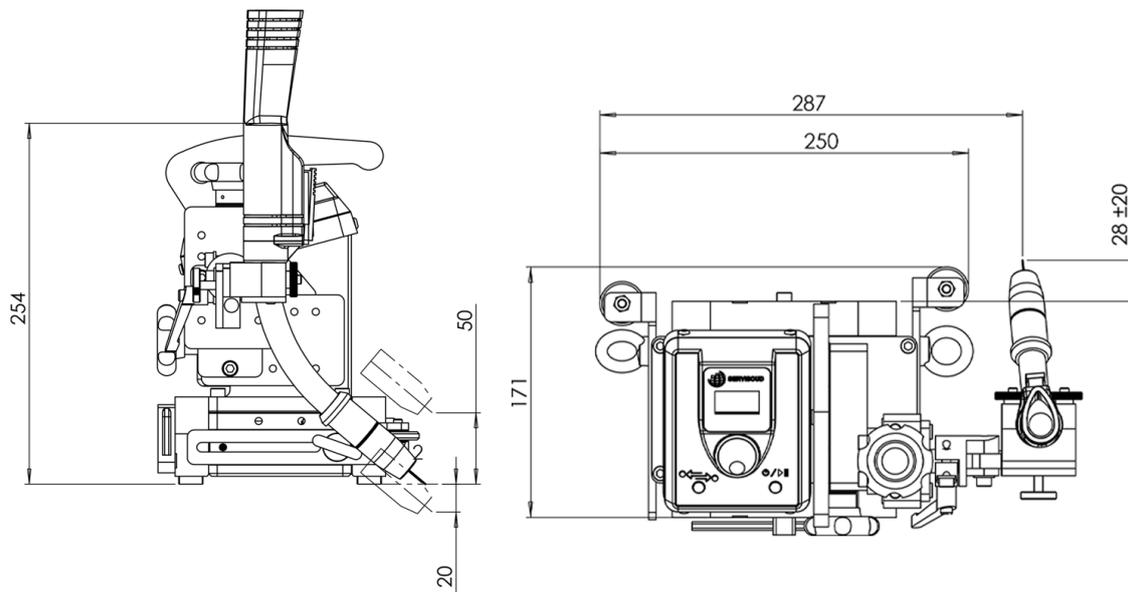


MAGLIGHT Original
Standard

DESIGNATIONS		PART NUMBERS WITH BATTERY CHARGER	PART NUMBERS WITH NO BATTERY CHARGER
1	MAGLIGHT Original - Only	-	SV 912 S 00 00 0
2	MAGLIGHT Original - Standard	SV 912 S MM 11 A	SV 912 S MM 00 A

EVO range accessories are not compatible with the ORIGINAL range

DIAGRAMS

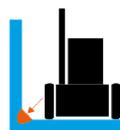


MAGLIGHT ORIGINAL

WELDING POSITIONS



PA



PB



PC



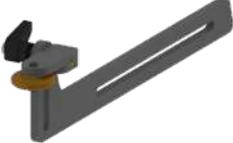
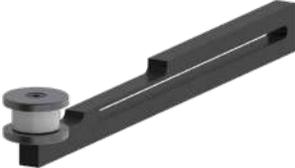
Welding with a slope <math><45^\circ</math>

TECHNICAL CHARACTERISTICS

DESIGNATION	MAGLIGHT
Speed range	1-200 cm/min
Drive	4 wheels drive
Battery supply	Li-Ion - 18 V - 5Ah
Battery life	10 hours
Magnetic attraction force	20 kg
Torch holder	Standard torch support with quick attachment (optional suction torch support)
Guide system	Crabbing support rollers
Dimensions (L x l x H)	330 x 170 x 250 mm
Weight (with battery)	6 kg
Automatic carriage start	Arc detection (without cable)* or torch trigger connection*
Automatic carriage stop	End of the race*
Cycle	Continuous or intermittent welding

*Requires an accessory not included in the configuration

Accessories for MAGLIGHT

DESIGNATIONS	ILLUSTRATIONS	PART NUMBERS
Intermediate holder symmetrical with standard arc sensor (400mm)		SV 0004 0116
Beam holder mast and MAGLIGHT interface		SV 91200 0500
End stop pusher for MAGLIGHT		SV 91200 0600
Magnetic crabbing arms for MAGLIGHT x2		Set of 2 SV 91200 0400
Standard full crabbing arm (250mm)		SV 00232 0000 or by a set of 2 SV 00232 000 - SET 2
Kit horizontal position arm complete x2		Set of 2 SV 00066 1100

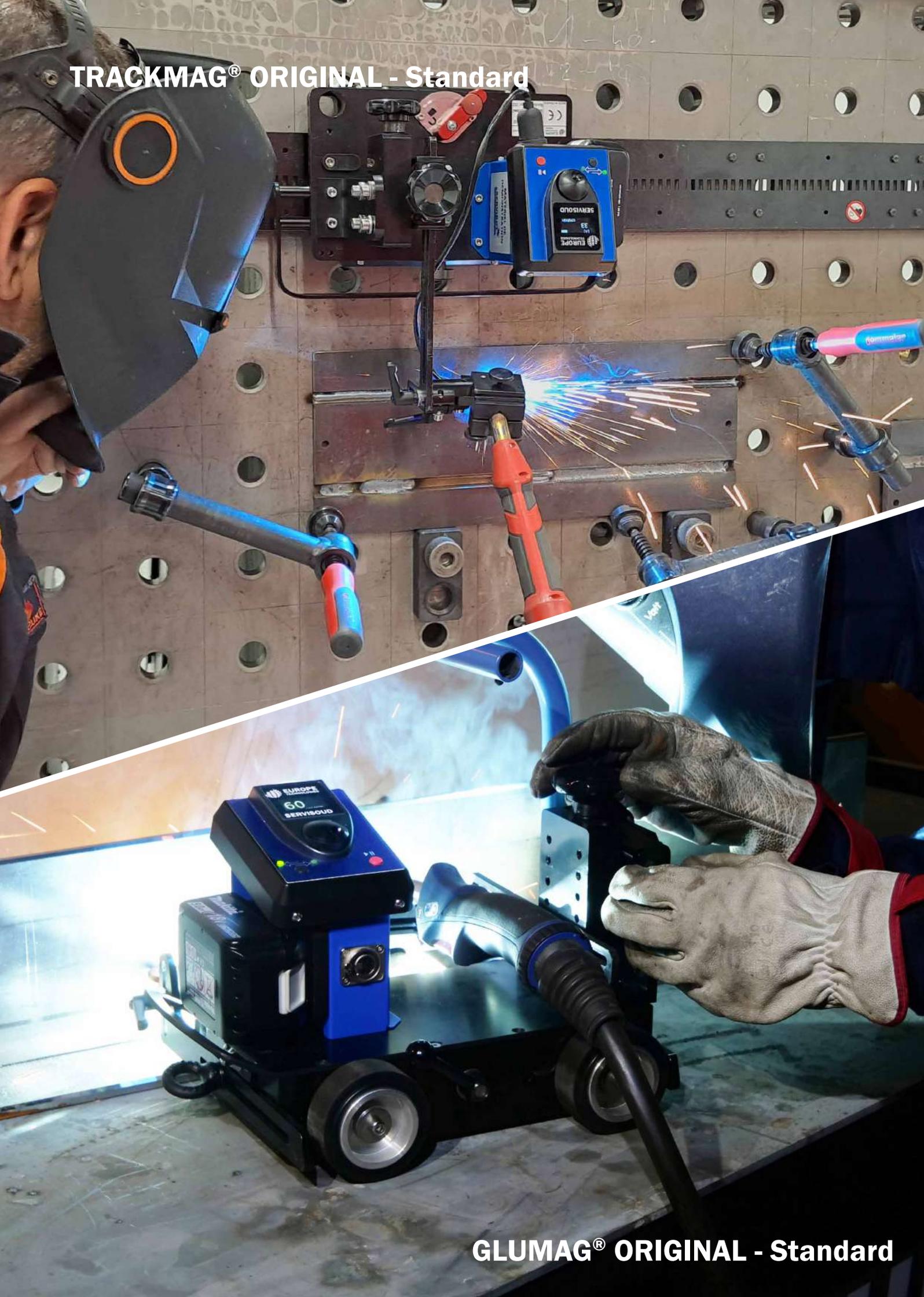
Flexible horizontal position guide rail (1500mm)		SV 96100 0008
MIG/MAG kit welding		SV 00233 0000
Standard MAGLIGHT wheel (max 80°)		SV000522100
		Set of 4 SV000522100-SET4
Knurled MAGLIGHT Alu wheel		SV000523000
		Set of 4 SV000523000-SET4

The accessories from the ORIGINAL range are not compatible with the EVOLUTIVE range.



MAGLIGHT ORIGINAL - Standard

TRACKMAG® ORIGINAL - Standard



GLUMAG® ORIGINAL - Standard

Configurations GLUMAG® ORIGINAL



GLUMAG® ORIGINAL
Standard

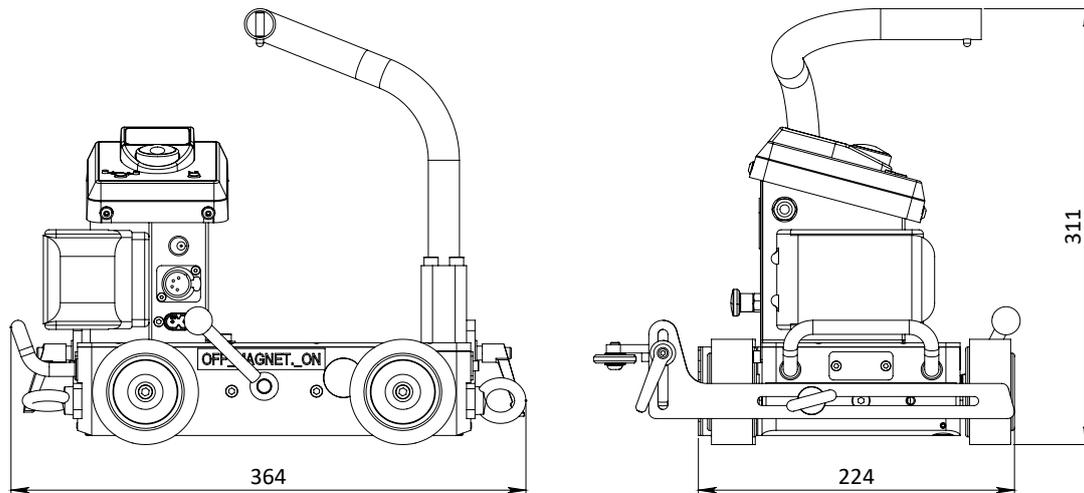


GLUMAG® ORIGINAL
Oxy version

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



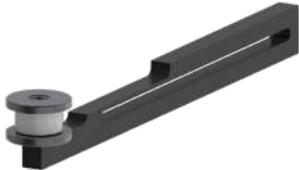
TECHNICAL CHARACTERISTICS

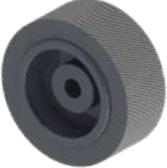
GLUMAG® ORIGINAL	
Drive	4-wheel drive
Speed range	1 - 180 cm/min. (fully charged battery)
Battery supply	Li-Ion - 18 V - 5Ah
Battery life (with standard wheels Ø75 mm)	Min. 10 hours*
Magnetic attraction force	28 kg
Torch holder	Quick-fit universal
Guide system	Crabbing bearing rollers
Dimensions (L x 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 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

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 or by sets of 4 SV 00001 1100 - SET 4
Wheels Ø100 mm*		SV 00002 1101

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

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

Configurations

TRACKMAG® ORIGINAL



TRACKMAG® ORIGINAL
Standard



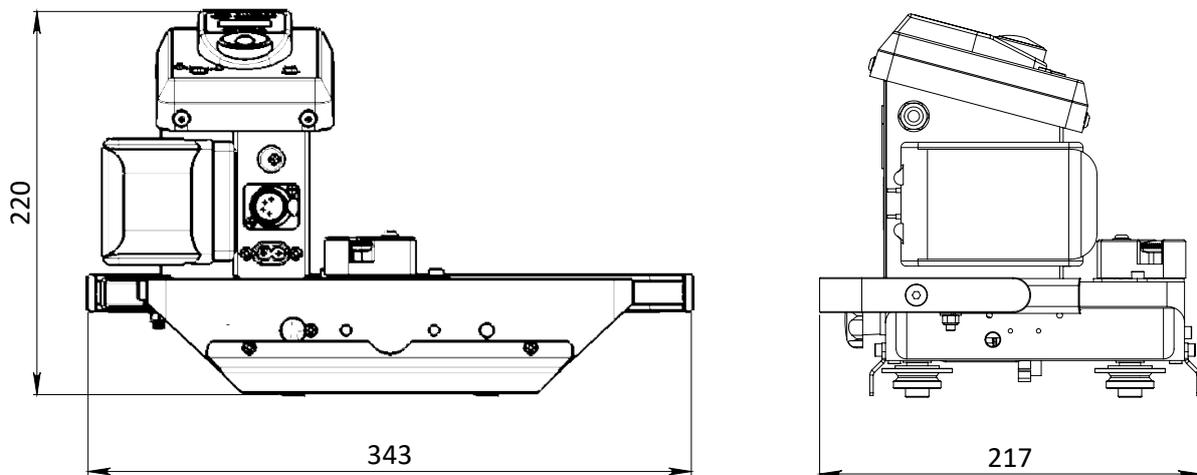
TRACKMAG® ORIGINAL
Oxy version

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

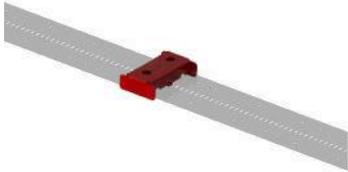
	TRACKMAG® ORIGINAL
Drive	Clutch pinion
Speed range	1 - 180 cm/min. (fully charged battery)
Battery supply	Li-Ion - 18 V - 5Ah
Battery life	10 hours*
Torch holder	Quick-fit universal
Guide system	Flexible or rigid track
Dimensions (L x W x H)	343 x 217 x 220 mm
Weight	7 kg**
Automatic carriage start during welding	Arc detection (no cable) or torch trigger connection
Power supply accessories	14V jack plug 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

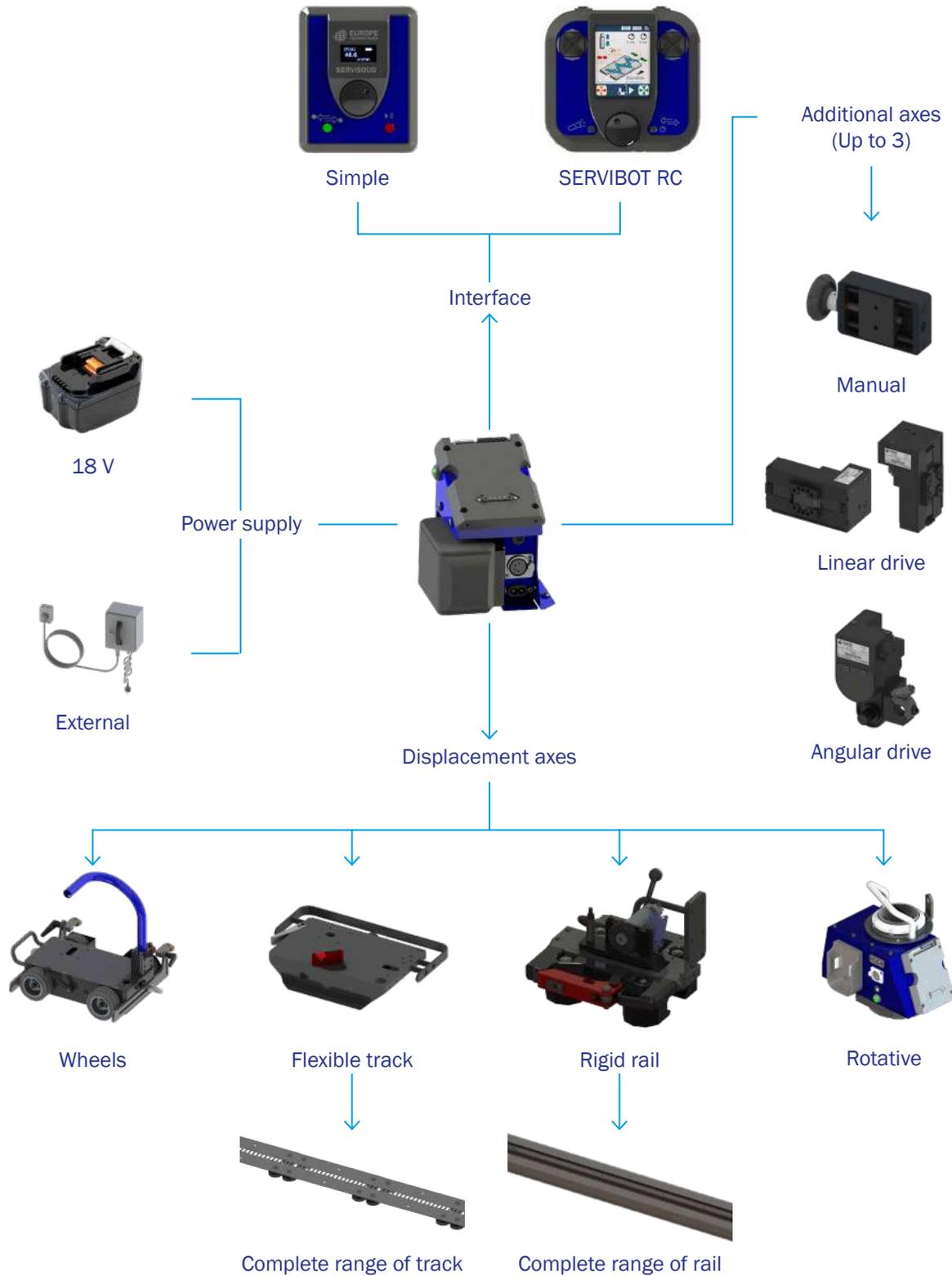
Accessories for TRACKMAG® ORIGINAL

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 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 or by sets of 2: 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.

EVO RANGE



KITS



MIG / MAG



Submerged arc welding



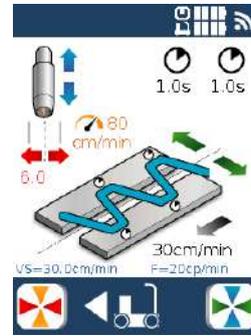
Oxycutting



Plasma cutting

PACKAGES

EVO PACKAGE



Basic functions

EVO ADVANCE PACKAGE



Innovative tracking solutions

EVO PRO PACKAGE



Communication and external control

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

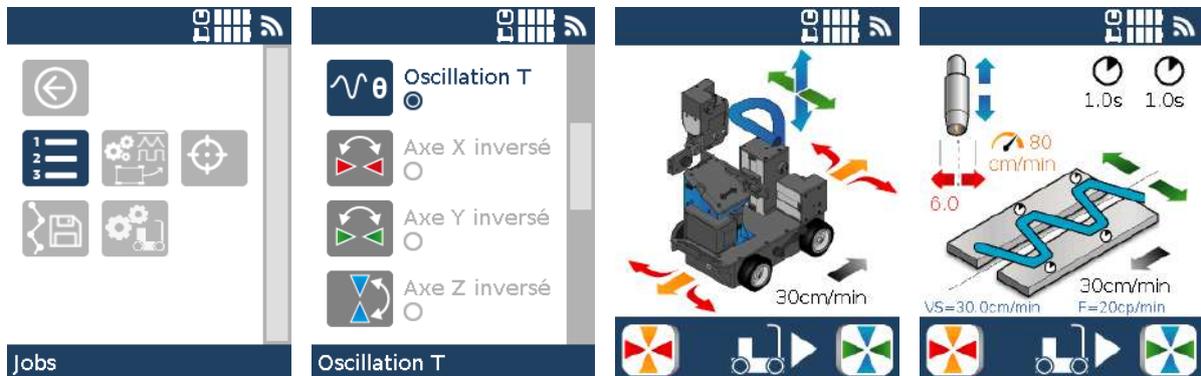
The SERVIBOT RC wireless remote control has been designed for intuitive, user-friendly control of multi-axis solutions.



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

SERVIBOT 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:

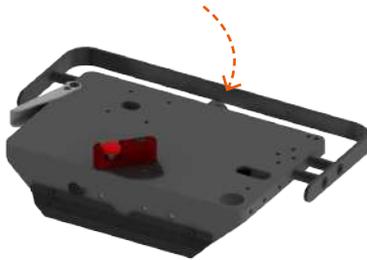
"The wheeled base creates a highly versatile, quick-to-set-up carriage. Moving directly over the workpiece allows the carriage to adapt to its profile, thereby minimising stickout variations at the level of the torch."

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

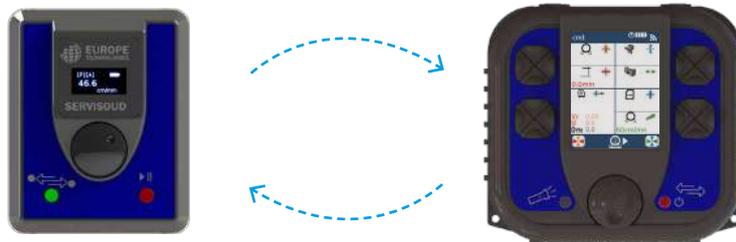
The angular axis is a third positioning axis that can be added to supplement two manual and/or motorised slides. The angular axis can be used for positioning and pendular oscillation by enabling the option in the SERVIBOT RC controller.



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."

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

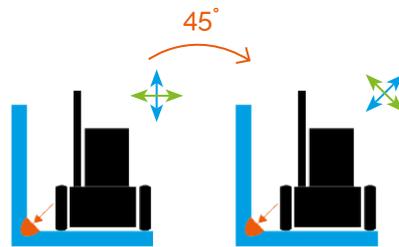
Included as standard in EVO carriages with SERVIBOT RC remote control:

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.



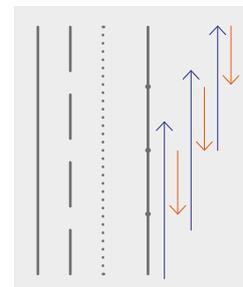
The direction of the linear oscillation and travel axes **can be modified** via the software. This eliminates the need for an additional mechanical accessory to orient the axes, thus reducing **setup times**.

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.

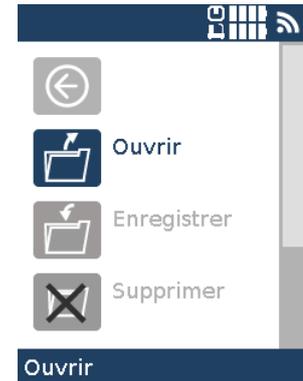


JOB MANAGEMENT

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 PROFILS AND LIMITS :

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)**.



GLUMAG® EVO

EVO ADVANCE PACKAGE

Used to unblock the following functionalities:

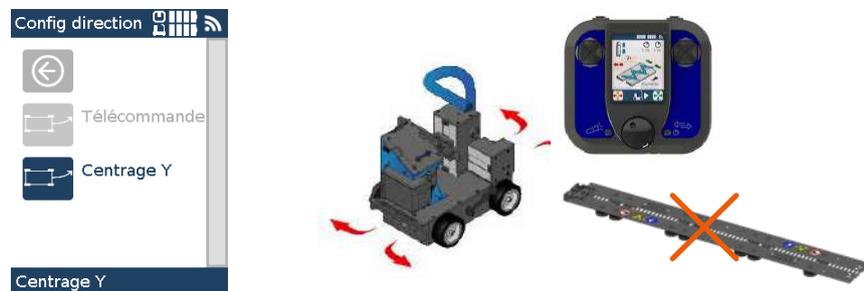
FOR THE GLUMAG® EVO CARRIAGE:

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."

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 CONTROL



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 (<i>ForceTig</i>)
FRONIUS	TPSi	iWave
GYS	-	Titanium 400 AC/DC
KEMPPi	Master M 358 X5 P AX	-
KJELLBERG	-	Infocus (<i>high density TIG</i>)

The sources listed below must be equipped with the manufacturer's specific **communication option**.

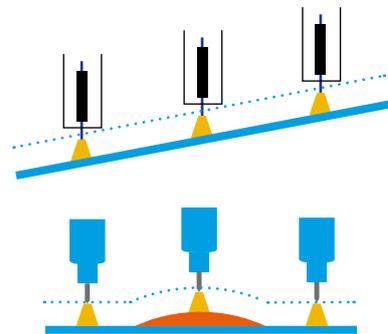
All other communicating sources can be made compatible with SERVIBOT systems: contact@servisoud.com.

SEAM HEIGHT TRACKING: SOC AND AVC

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)

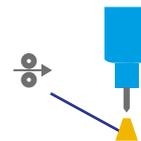
The current or voltage value must be retrieved from the welding power source via a communication unit or an analog unit



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*

Configurations

GLUMAG® EVO

1



GLUMAG® EVO
Bare

2



GLUMAG® EVO
Manual

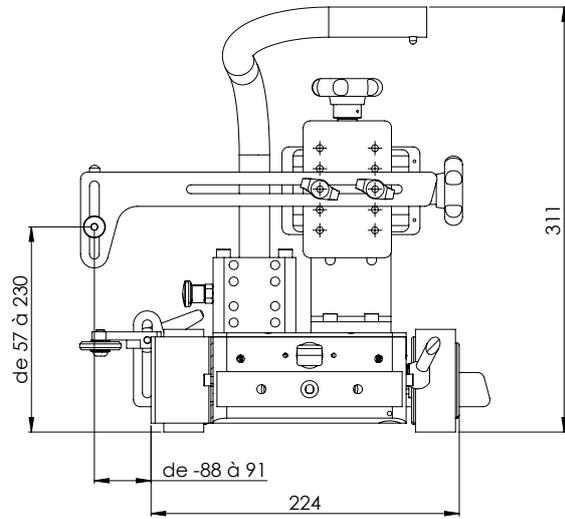
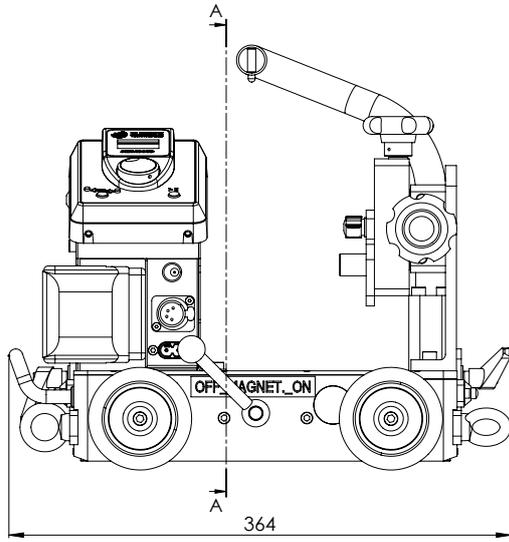
3



GLUMAG® EVO
Motorised Y/Z axes

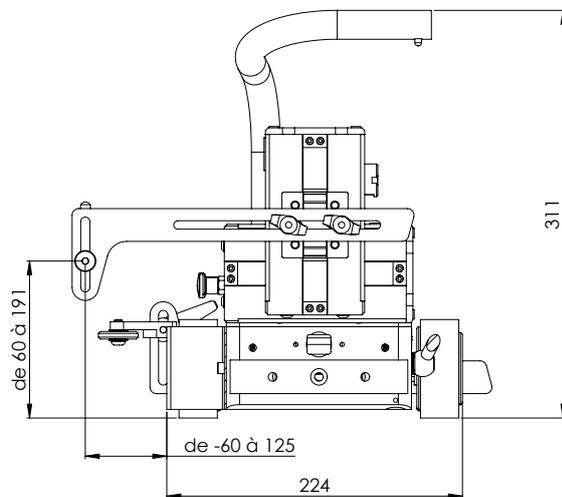
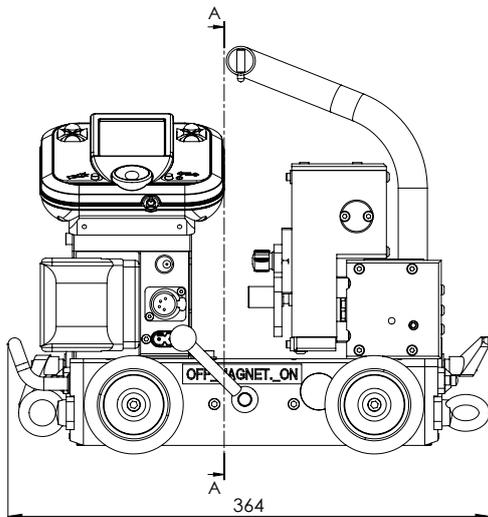
DESIGNATIONS		SOFTWARE FUNCTIONS PACKAGE	PART NUMBERS WITH BATTERY CHARGER	PART NUMBERS WITH NO BATTERY CHARGER
1	Bare carriage		--	SV 921 0 00 00 0
2	Y/Z dual manual slides - simple interface - MIG/MAG welding kit		SV 921 S MM 11 A	SV 921 S MM 00 A
3	Motorised Y/Z axes - SERVIBOT RC controller - MIG/MAG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



COUPE A-A

GLUMAG® EVO - Manual



COUPE A-A

GLUMAG® EVO - motorised Y/Z axes

(Dimensions in mm)

WELDING POSITIONS



PA: flat weld



PB: fillet weld



PC: cornice weld



PD: fillet overhead weld



PE: overhead weld



PF: vertical up



PG: vertical down weld



> DN1000

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
Magnetic attraction 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

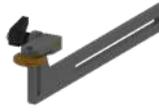
Plasma
cutting



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

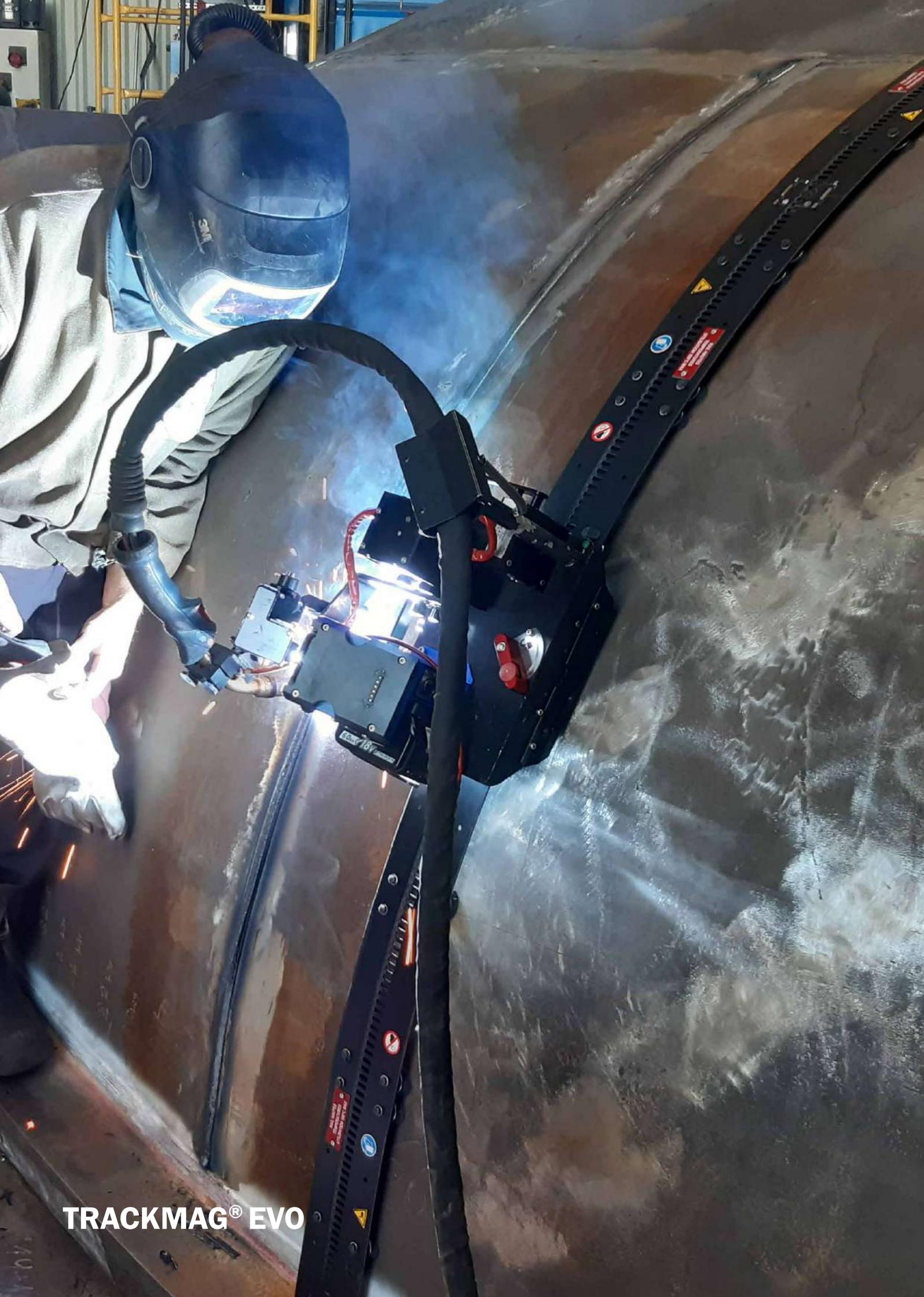
*Compatible with the mini-torch, angle 180°.

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 or by sets of 4 SV 00001 1100 - SET 4

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



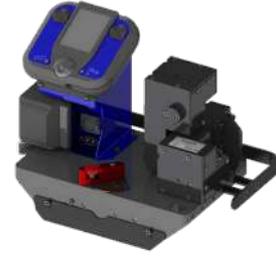
TRACKMAG® EVO
Bare

2



TRACKMAG® EVO
Manual

3

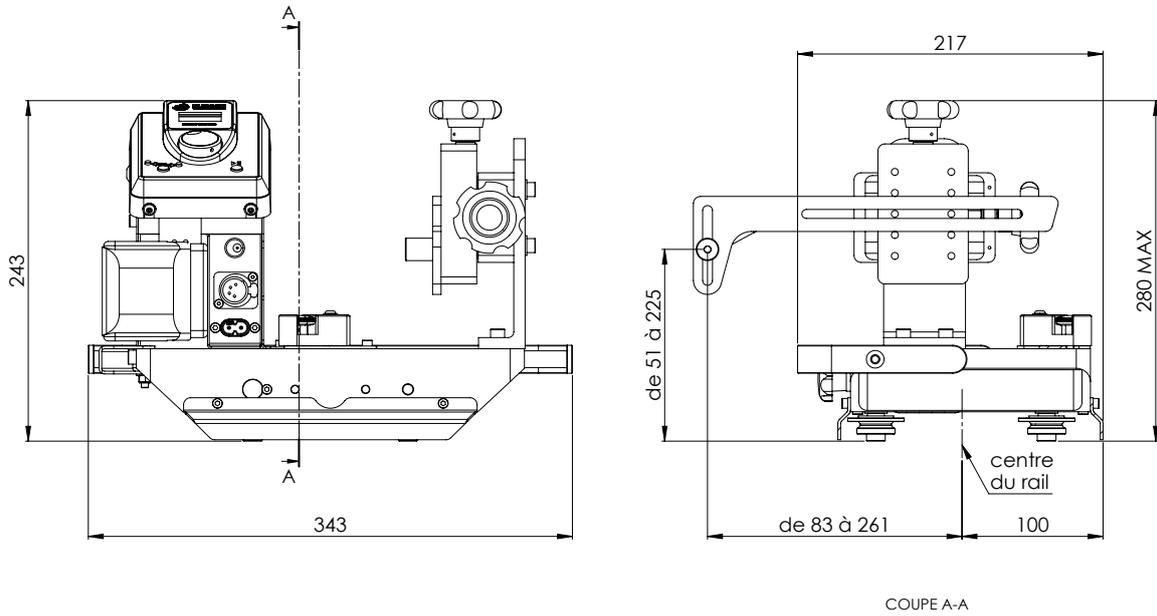


TRACKMAG® EVO
Motorised Y/Z axes

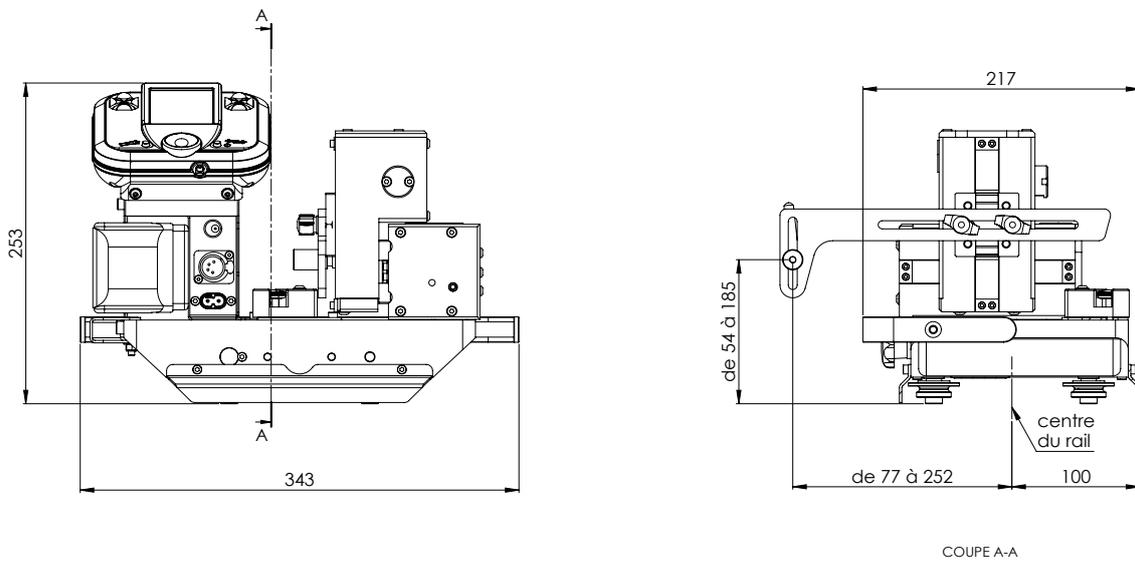
	DESIGNATIONS	SOFTWARE FUNCTIONS PACKAGE	PART NUMBERS WITH BATTERY CHARGER	PART NUMBERS WITH NO BATTERY CHARGER
1	Bare carriage*		--	SV 922 0 00 00 0
2	Y/Z dual manual slides - simple interface - MIG/MAG welding kit*		SV 922 S MM 11 A	SV 922 S MM 00 A
3	Motorised Y/Z axes - SERVIBOT RC controller - MIG/MAG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



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

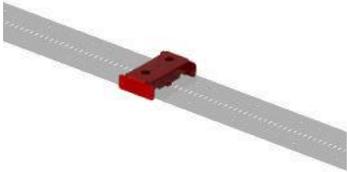


Ref.: SV 00246 2000
(version with Ø35
torch holder)*

*Compatible with the mini-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

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 or by sets of 2: 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

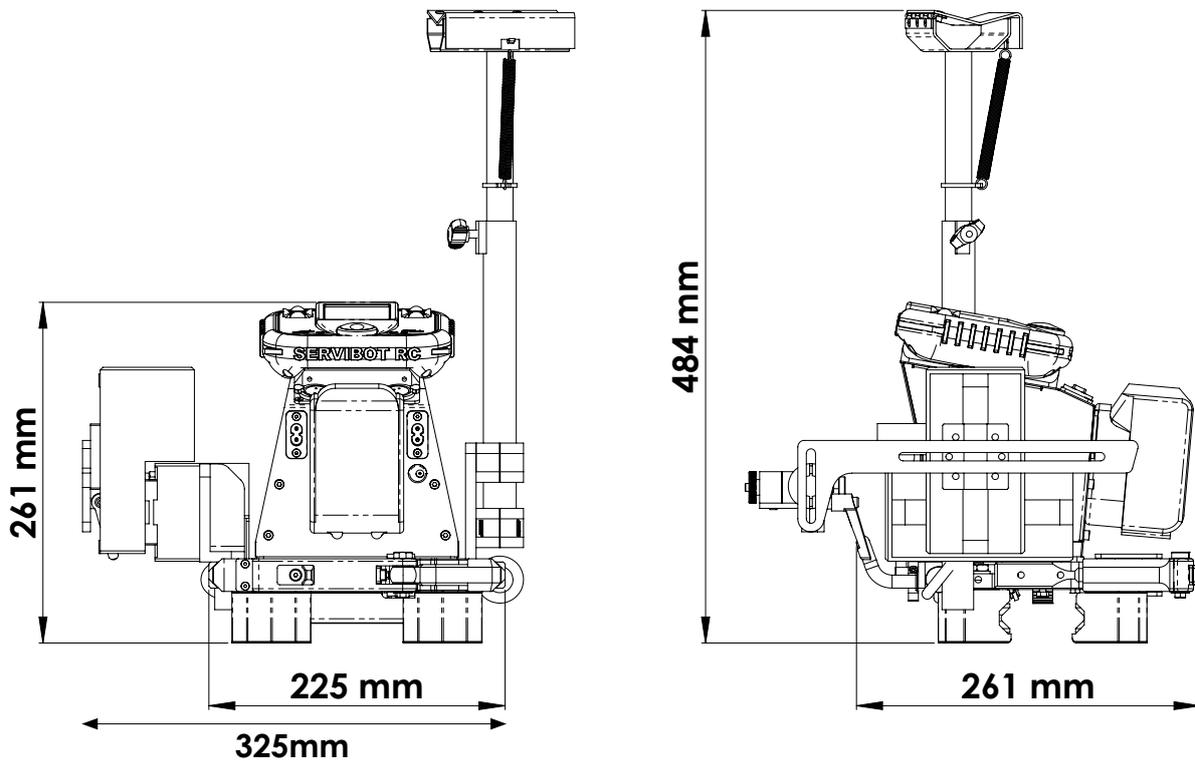


RAILMAG® 60 EVO
Motorised Y/Z axes

	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

COMPATIBLE KITS

MIG/MAG
welding

Ref.: SV 00233 0000

Angular MIG/MAG
welding

Ref.: SV 00251 0000

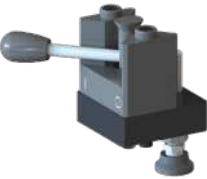
SAW
welding

Ref.: SV 96400 0004

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

*Compatible with the mini-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 Length on request (< 1m)
		SV 00475 0000 Length on request (< 2m)
		SV 00471 0000 Length on request (< 3m)

Configurations

RAILMAG® 90 EVO

1



RAILMAG® 90 EVO
Bare

2



RAILMAG® 90 EVO
Motorised Y/Z axes 65

3

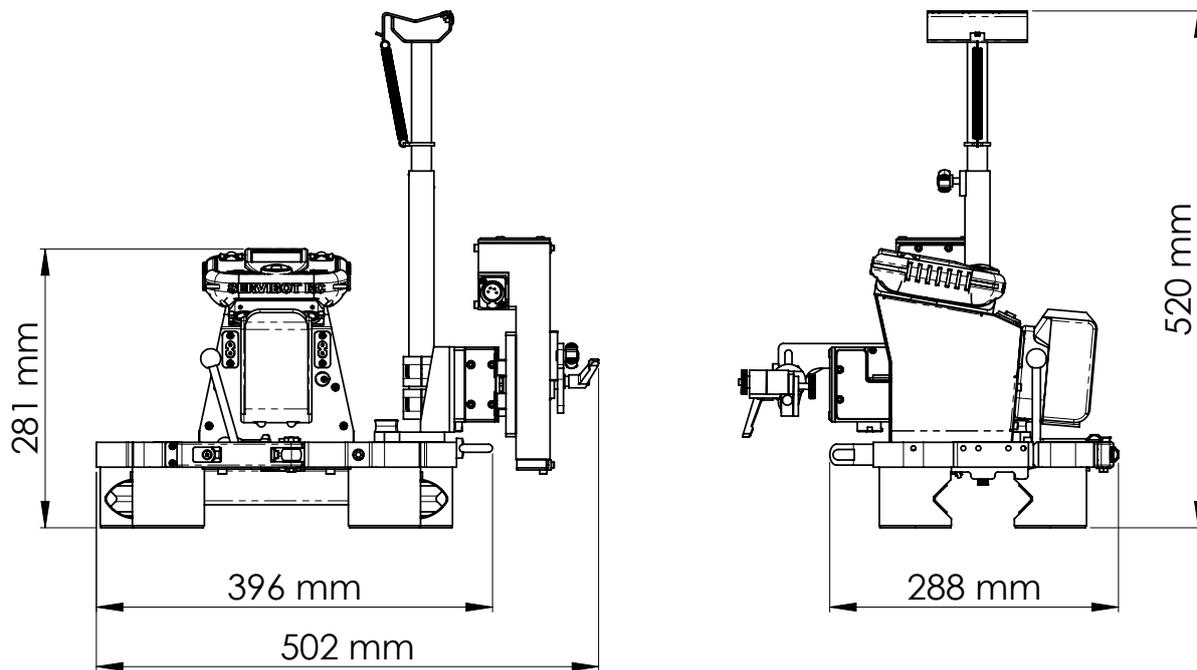


RAILMAG® 90 EVO
Motorised Y/Z axes 145

	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

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-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

Configurations

ROTOMAG

1



ROTOMAG
Bare

2

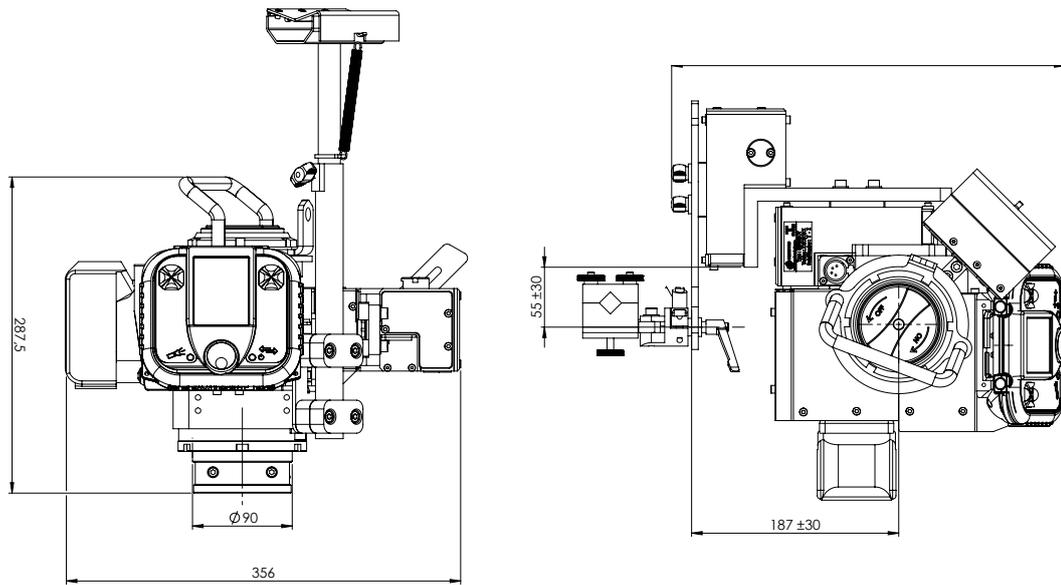


ROTOMAG
Motorised Y/Z axes

	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

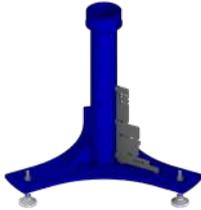


TECHNICAL CHARACTERISTICS

	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

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

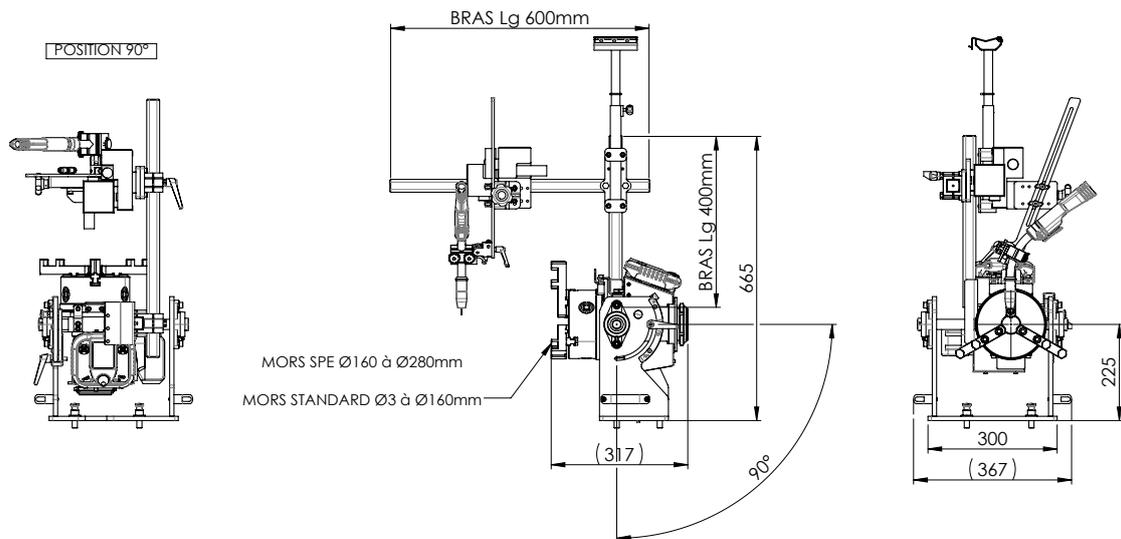
2



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

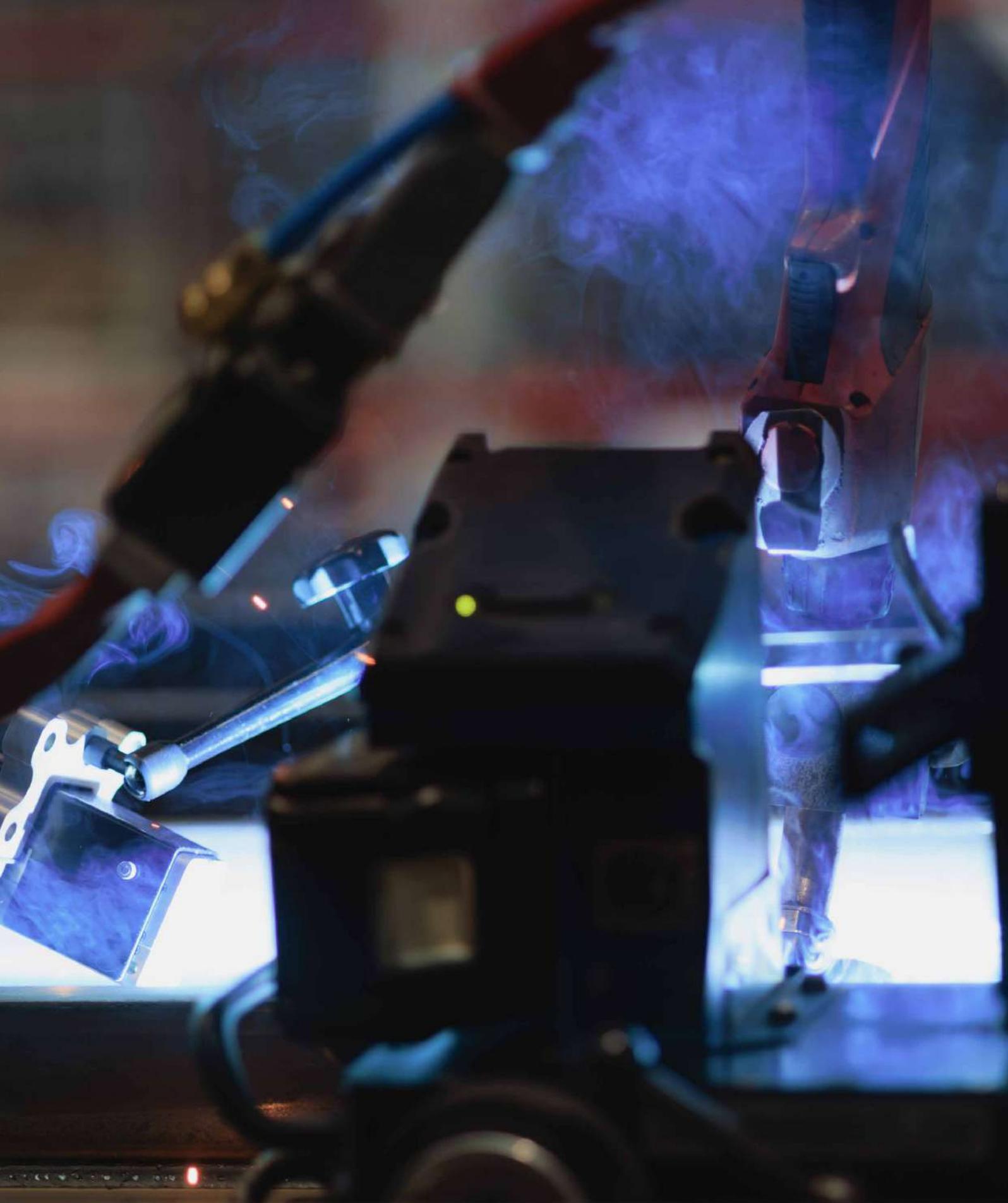
TECHNICAL CHARACTERISTICS

	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

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



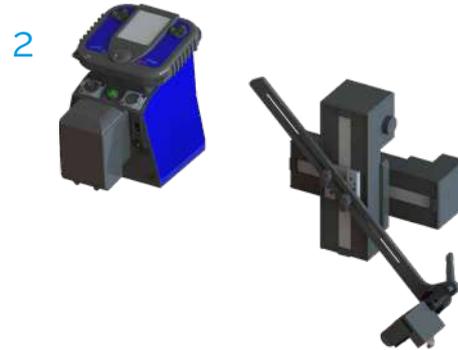
SERVICAM

Configurations

EVO AXES PACK



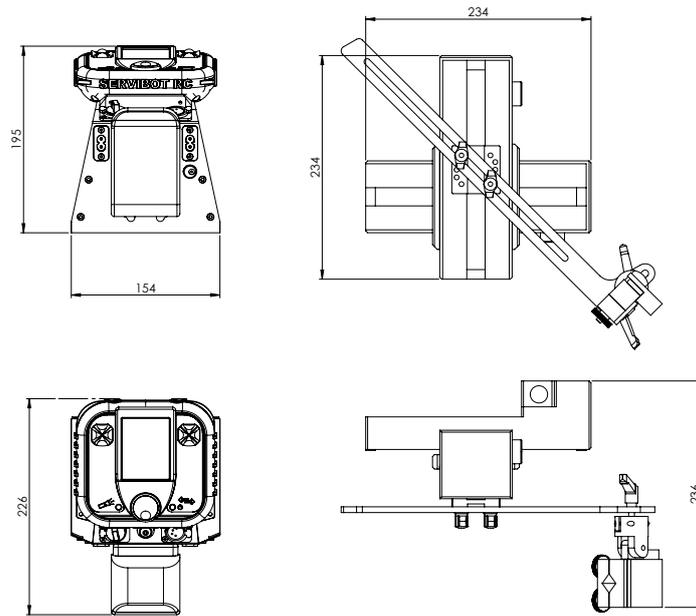
Autonomous axes 65 mm



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

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

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



Required for upgrading:

DESIGNATIONS	PART NUMBERS
Activation of EVO ADVANCE software	SOFT 0021



Required for upgrading:

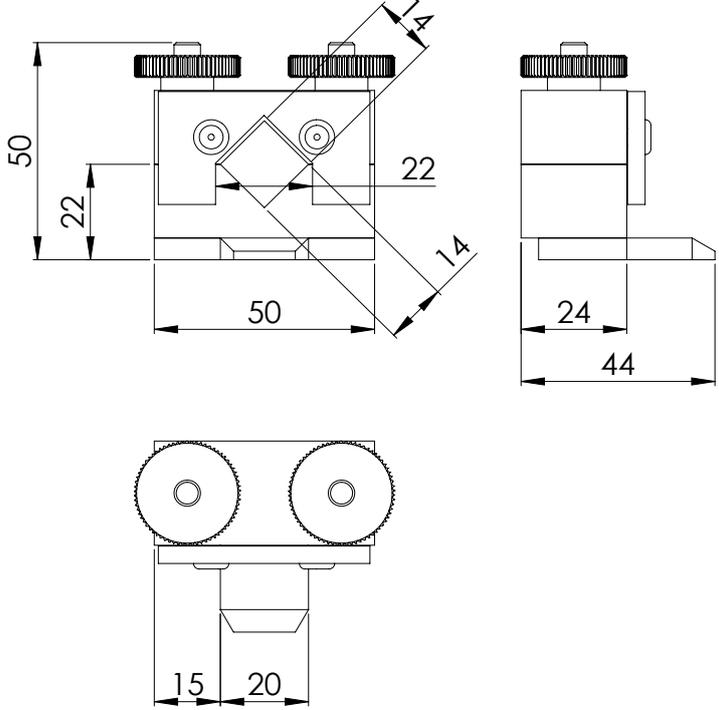
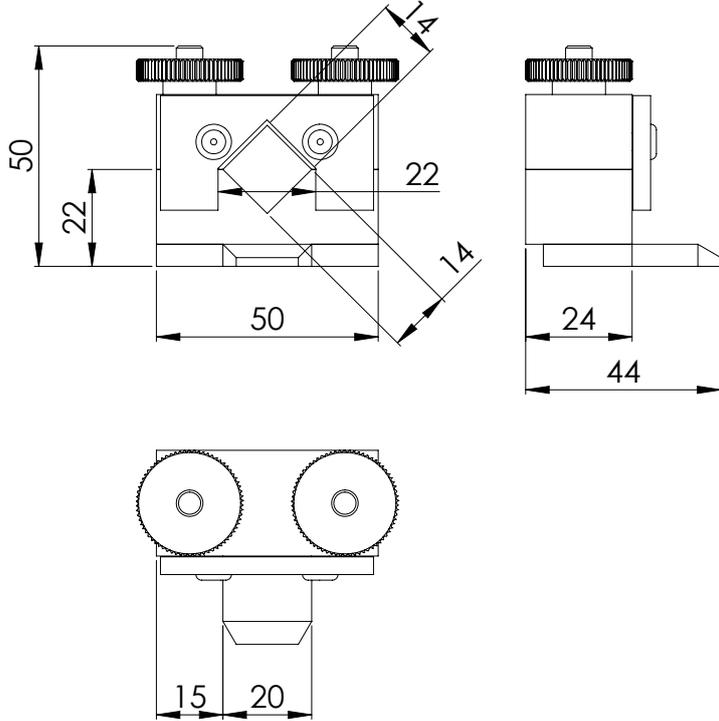
DESIGNATIONS	PART NUMBERS
SERVIBOT RC controller (4-button HMI)	SV 95701 2000
Communication unit (network cable included)	SV 80101 2000
Male/female XLR accessories cable 10m *	SV 00666 0000

*Other lengths on request

Universal accessories for the **SERVIBOT range**

POWER SUPPLY		
External power supply 230V - 50Hz - FR plug		SV 96000 0001
Unit-carriage cable for external power supply		SV 00210 2120 (Length 1.5m) SV 00210 1120 (Length 10m)
Battery charger MAKITA 18V single		ART 05680
Battery charger MAKITA 18V dual		ART 05681
Battery MAKITA 18V 5Ah		ART 05679
Compatible battery 18V 5Ah		ART 13848
Compatible battery 18V 9Ah		ART 13849
12V charger remote control		ART 05694

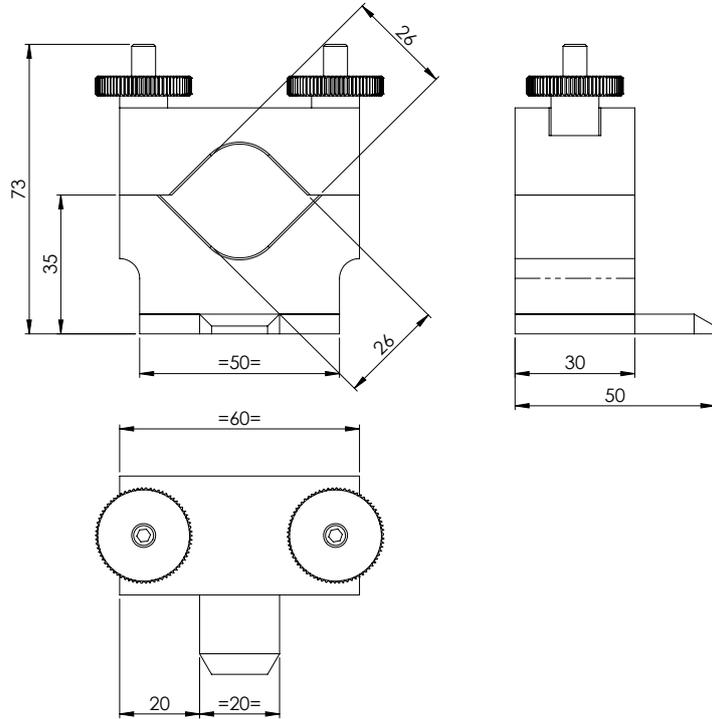
SECURITY EQUIPMENT		
XLR flashlight		SV 00258 0000
Anti-fall counterbalance (Capacity 10-14 kg)		ART 14598
Load arrester Length 10m (max 250kg)		ART 16946

TORCH HOLDER	
Standard torch holder (70° max)	SV 00005 1100
	
High-temperature torch holder (max 250°)	SV 00248 0000
	

TORCH HOLDER

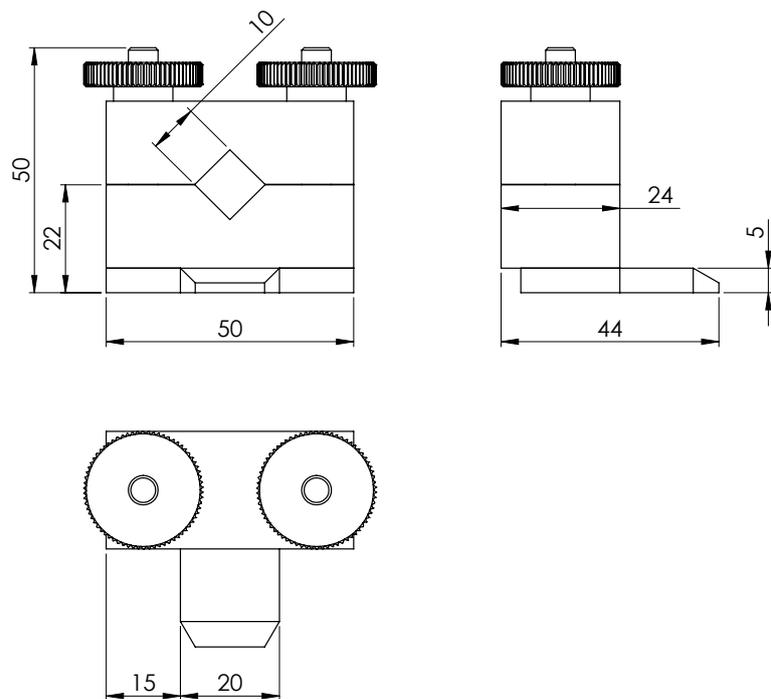
Extractor torch holder (70° max)

SV 00045 1100



innershield® torch holder (70° max)

SV 00249 0000



INTERMEDIATE SUPPORTS		
Intermediate support with no sensor	 A black L-shaped intermediate support with a vertical flange on the left side and a horizontal base with two mounting holes.	SV 00004 0112
Intermediate support with no symmetrical sensor	 A black U-shaped intermediate support with a horizontal base and two vertical flanges on the right side, one higher than the other.	SV 00004 0113

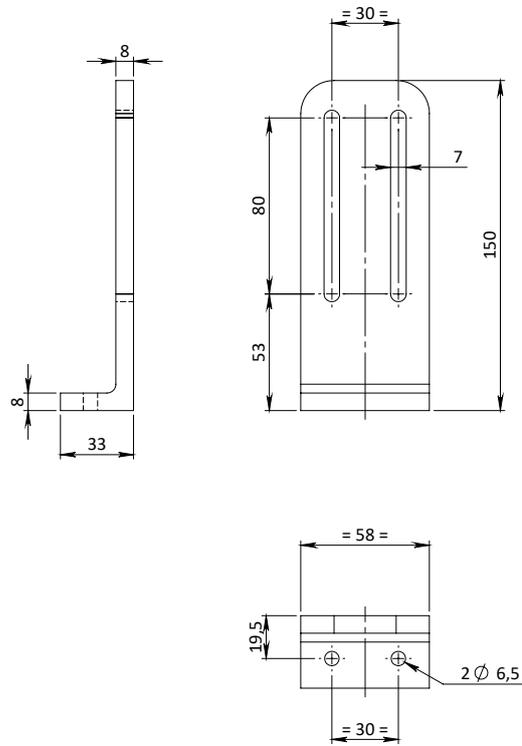
ARC SENSOR		
Intermediate support with standard arc sensor (400mm)		SV 00004 0114
Intermediate support with long standard arc sensor (650mm)		SV 00004 0115
Intermediate support with symmetrical arc sensor (400mm)		SV 00004 0116
Intermediate support with long symmetrical arc sensor (650mm)		SV 00004 0117
Arc sensor extension (400mm)		SV 00247 0000
Trigger cable (400mm)		ART 04932

TORCH		
Manual torch KEMPPI GF 403W 5m equipped with a trigger cable		SV 82002 1000
Manual torch BINZEL XFUME® PRO 501 4m equipped with a trigger cable		SV 82002 2000
Straight torch BINZEL XFUME® AUT 501 m equipped with a trigger cable		SV 82002 3000
Manual torch BINZEL MB501D 4m equipped with a trigger cable		TORC 0293
Right torch Torche droite BINZEL AUT 501D 4m equipped with a trigger cable		TORC0311
Manual torch KEMPPI GX405 6m equipped with a trigger cable		TORC0312
Plasma cutting torch for minimachine 180° SMARTSYNC 15m equipped with trigger cable for Hypertherm PMX 65,85,105		SV 82102 1000
Plasma cutting torch for minimachine 180° DURAMAX 15m equipped with trigger for Hypertherm PMX 125		SV 82102 1000

ASSEMBLY INTERFACE

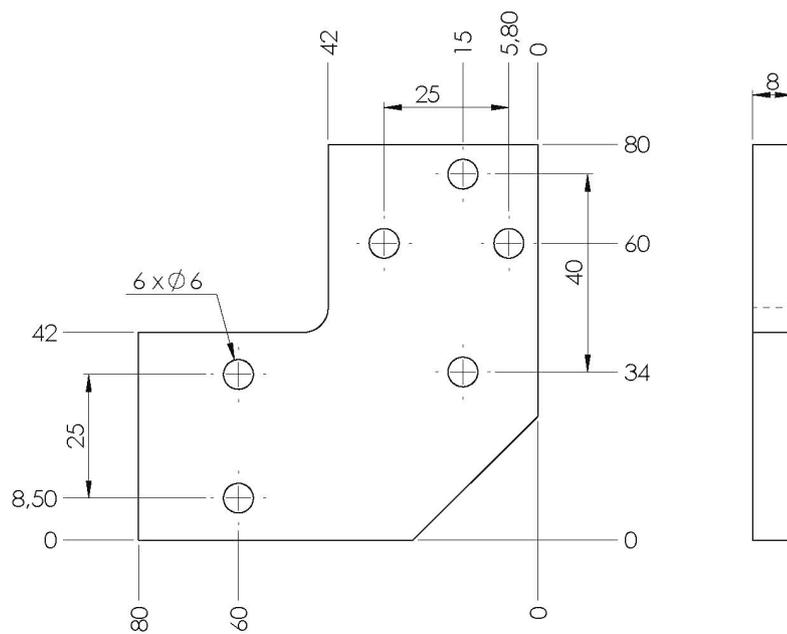
Frame connection bracket - manual Y axis

SV 00188 0001



Connector plate - manual Y axis - manual Z axis

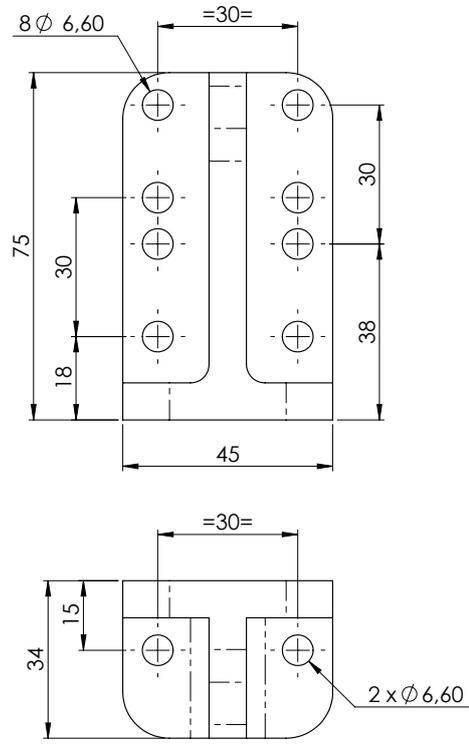
SV 00036 0001



ASSEMBLY INTERFACE

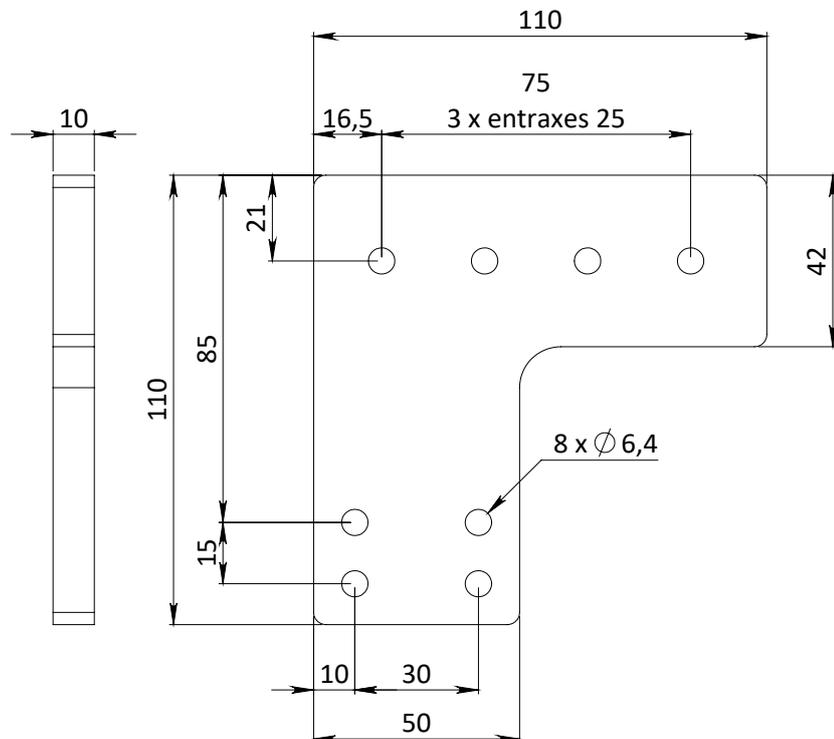
Frame connection bracket - motorised Y axis

SV 00129 0001



Connector plate - motorised Y axis - manual Z axis

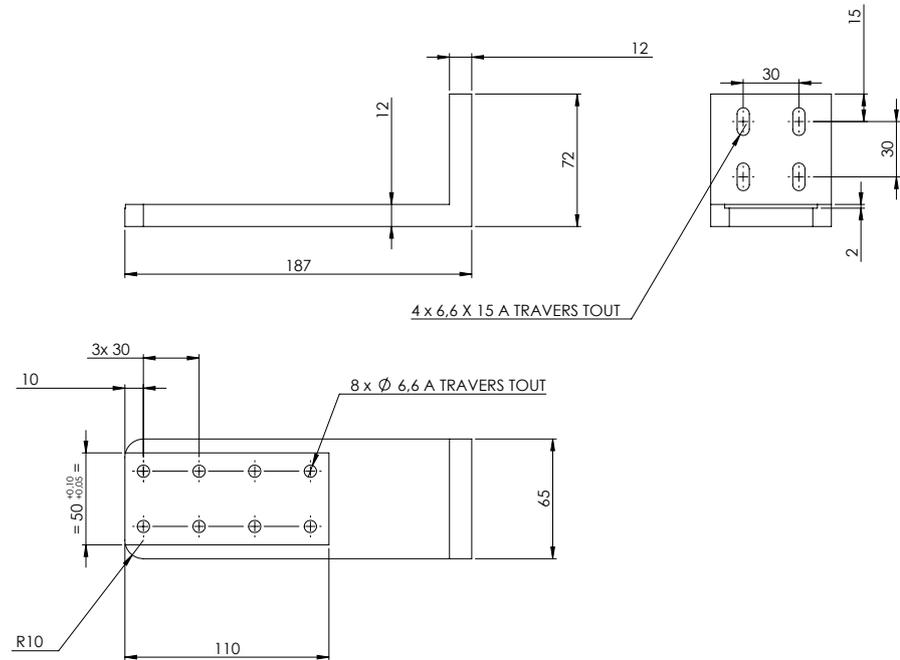
SV 00189 0001

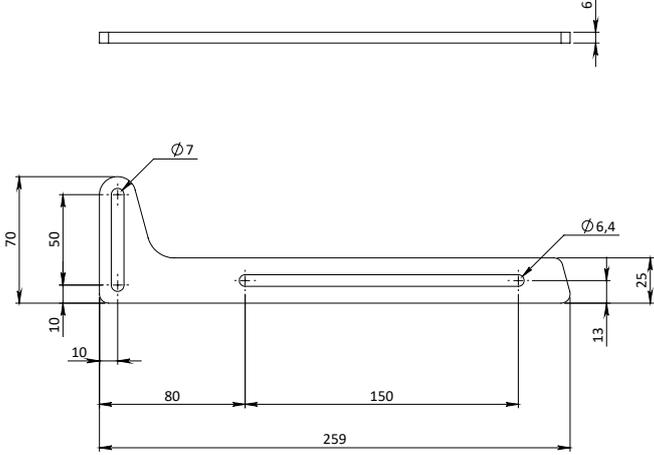
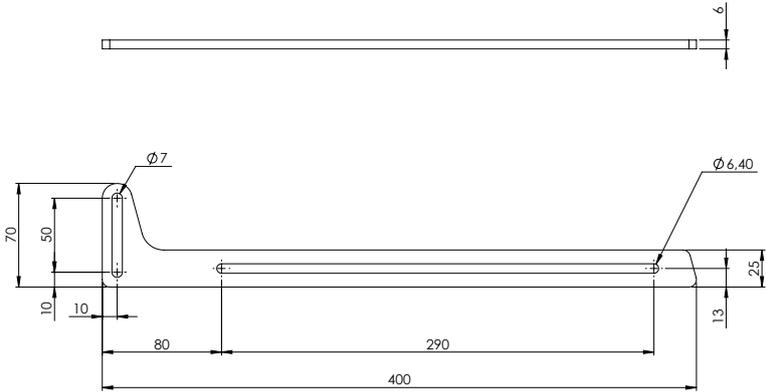
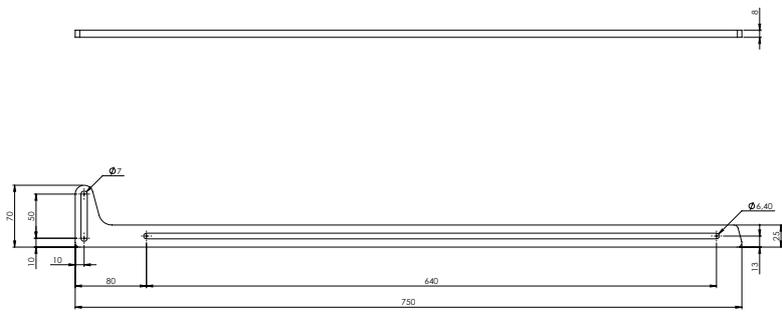


ASSEMBLY INTERFACE

Connection bracket - Motorised axis - Motorised axis

SV 00252 0000

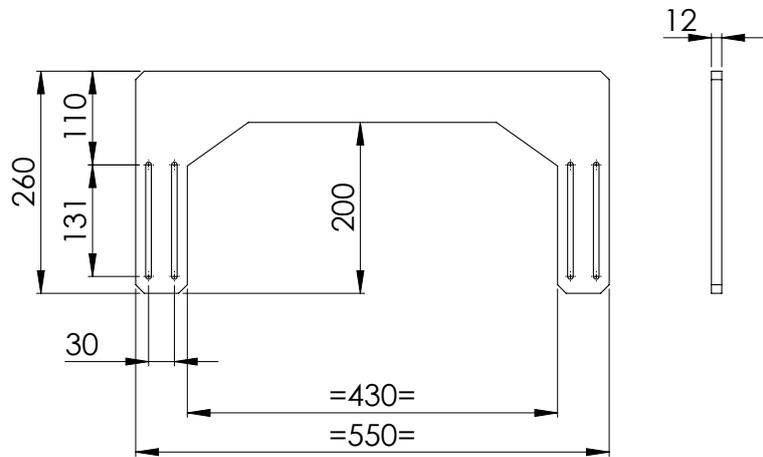


TORCH HOLDER ARM	
Standard arm 250 mm	SV 00033 0001
	
Long arm 400 mm	SV 00043 0001
	
Extra long arm 750 mm	SV 00250 0000
	

TORCH HOLDER ARM

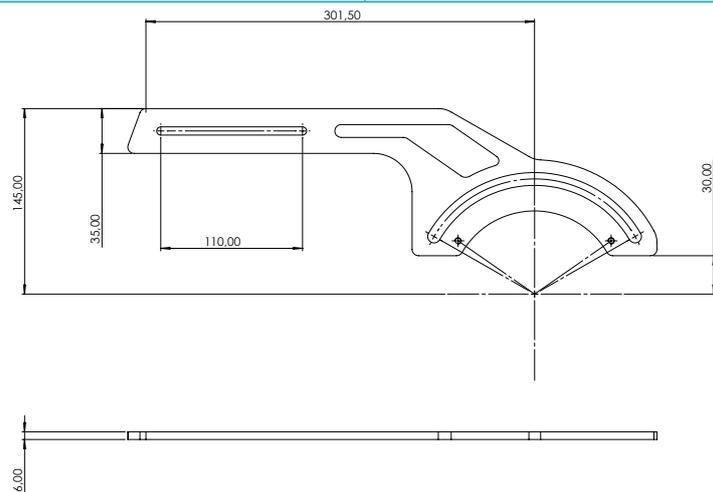
Dual torch arm

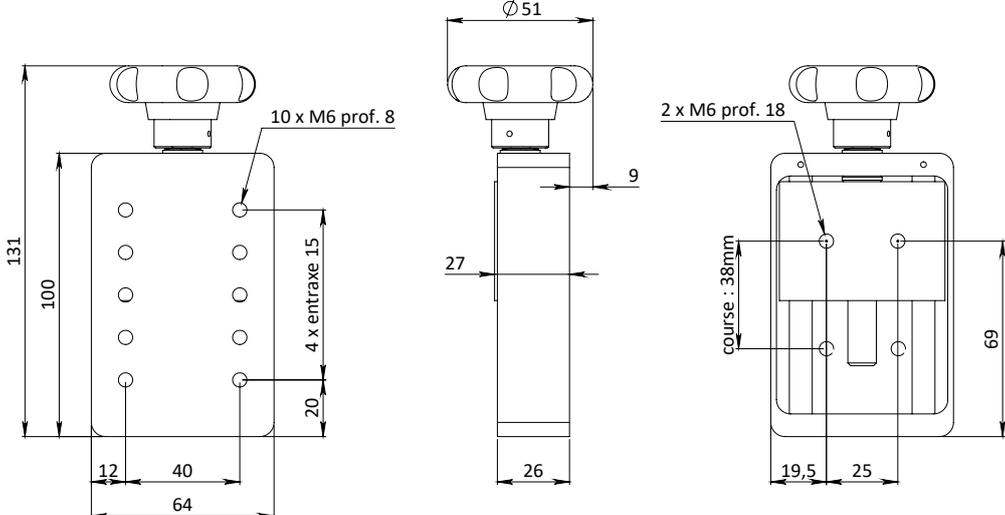
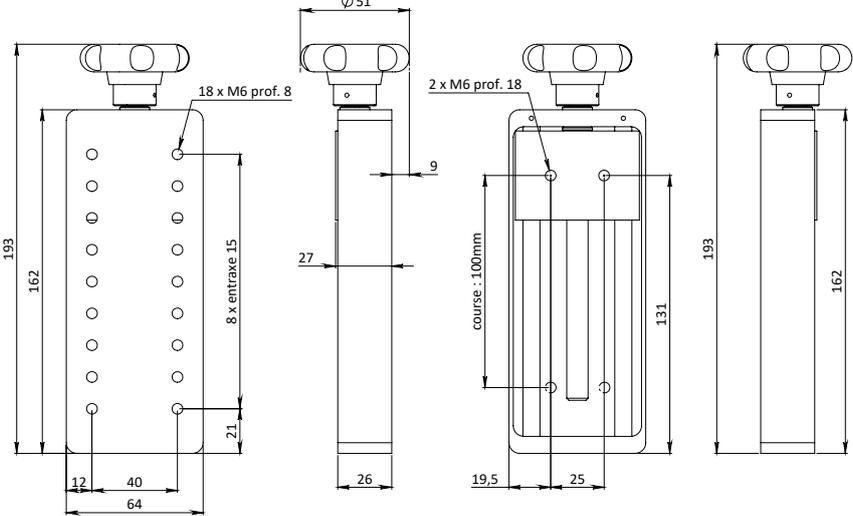
SV 00095 0001



Angular adjusting arm

SV 00294 0000

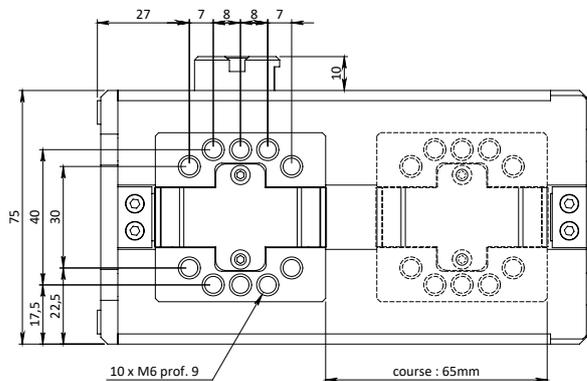
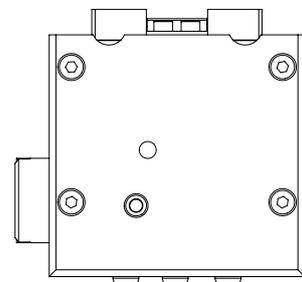
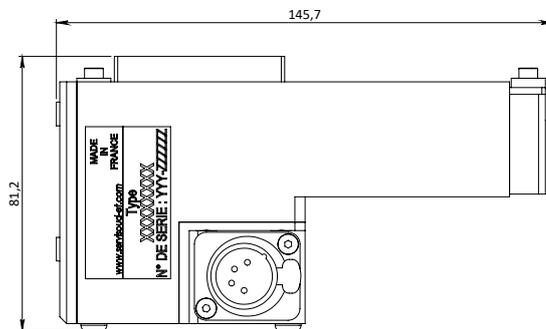


MANUAL AXES		
Monobloc dual slide		SV 00190 1100
Standard manual slide - 38 mm stroke		SV 00191 1100
		
Manual slide 100 mm stroke		SV 00234 0000
		

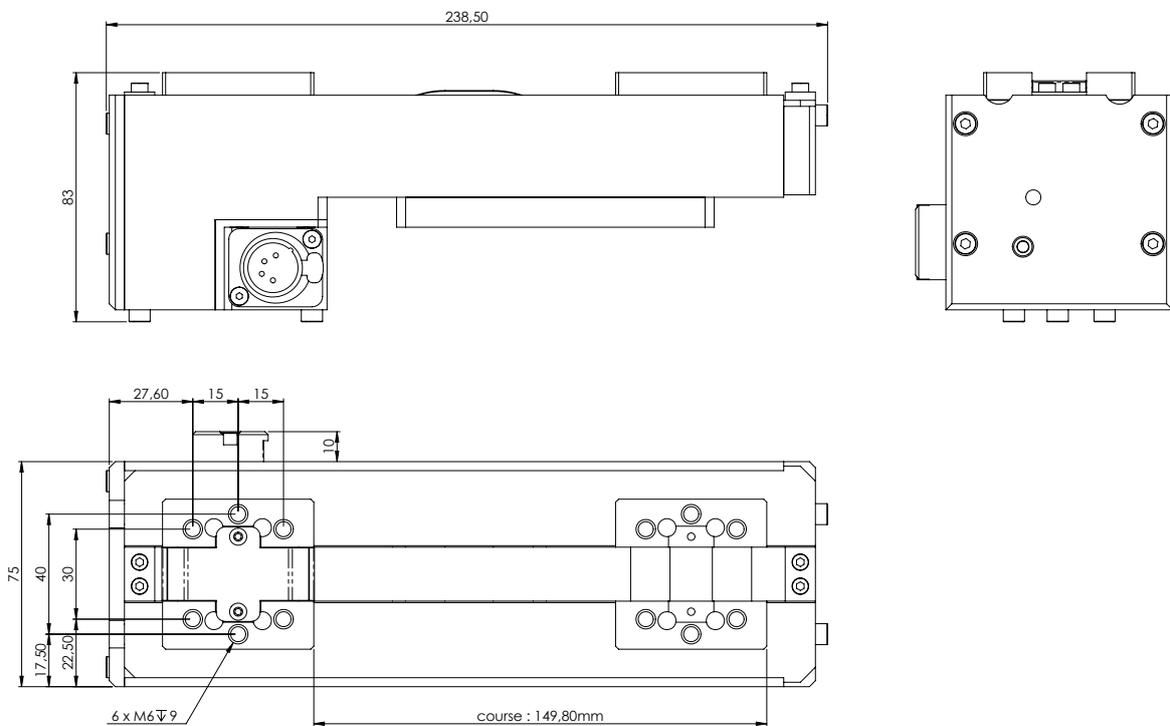
MOTORISED AXES

EVO
RANGE

Linear axis 65 mm stroke 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



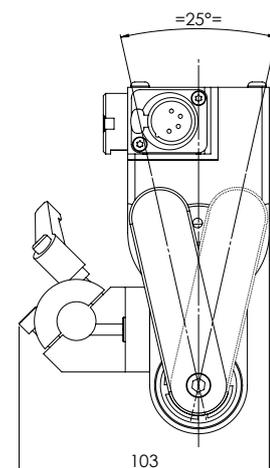
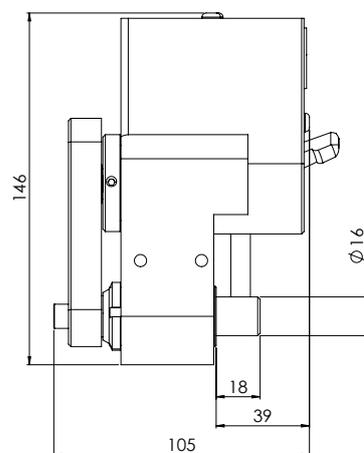
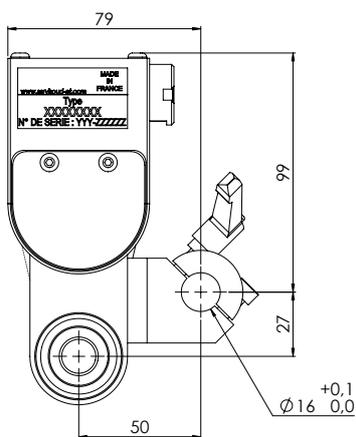
MOTORISED AXES		
<p>Linear axis 145 mm stroke Cable 400 mm</p>		<p>SV 95801 1000</p>
<p>Linear axis 145 mm stroke No cable</p>		<p>SV 95801 2000</p>
<p>Cable for motorised axis</p>		<p>250 mm: ART 05406</p>
		<p>400 mm: ART 05407</p>
		<p>600 mm: ART 14096</p>
		<p>750 mm: ART 14097</p>



MOTORISED AXES

EVO
RANGE

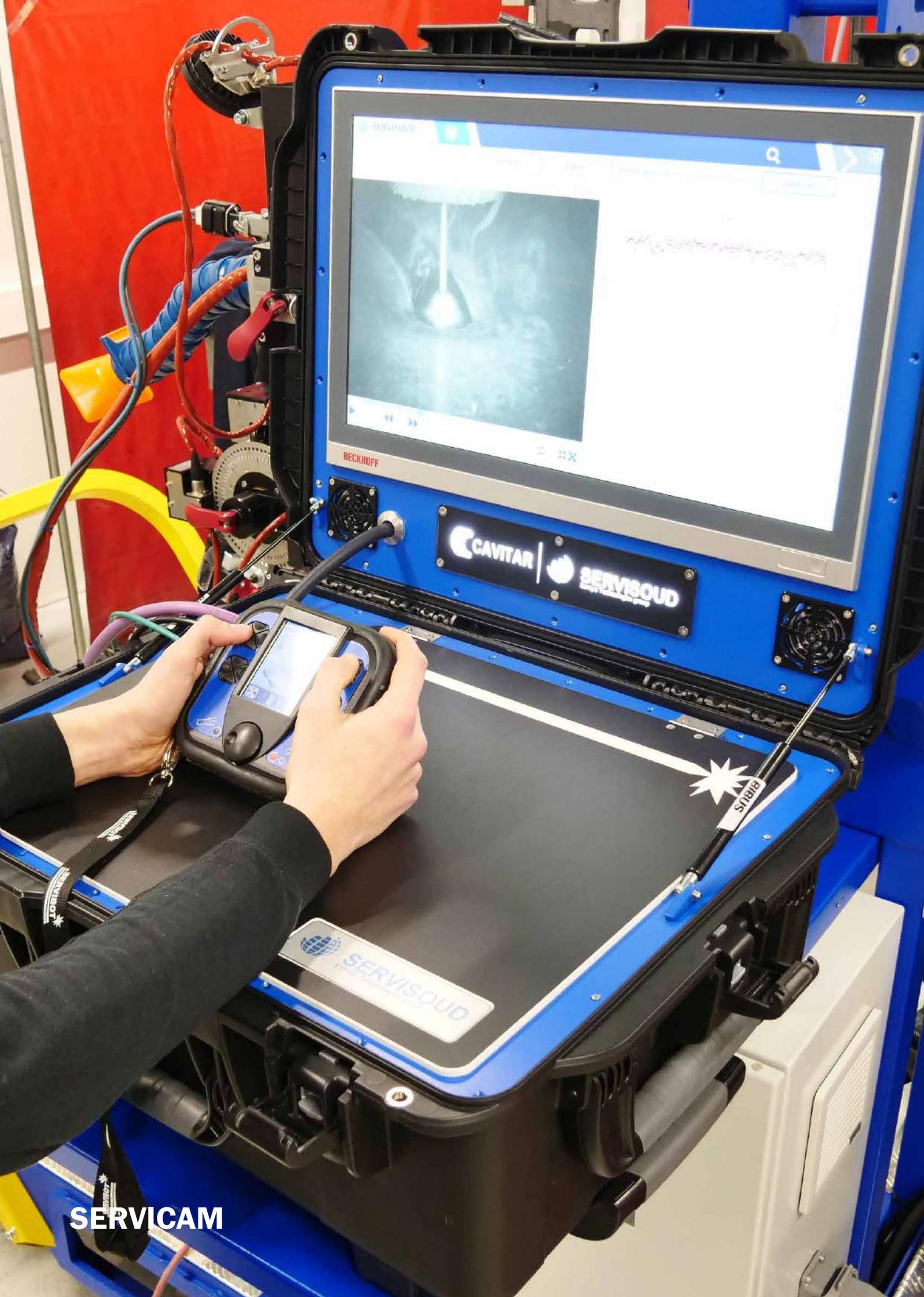
Angular axis 25° stroke Cable 400 mm		SV 95900 1000
Full angular axis 25° stroke Cable 400 mm		SV 95900 2000
Angular axis 25° stroke No cable		SV 95900 3000
Cable for motorised axis		250 mm: ART 05406
		400 mm: ART 05407
		600 mm: ART 14096
		750 mm: ART 14097



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

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



SERVISOUD

BECKHOFF

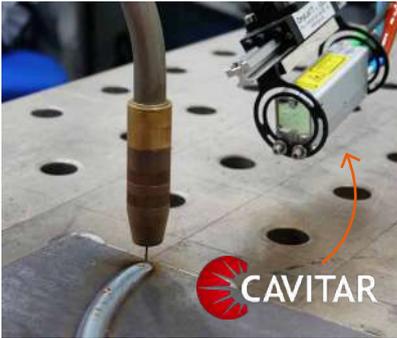
CAVITAR | SERVISOUD

SERVICAM

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.



SERVICAM APPLICATIONS

1) Associated with a CAVITAR camera: VIEWING

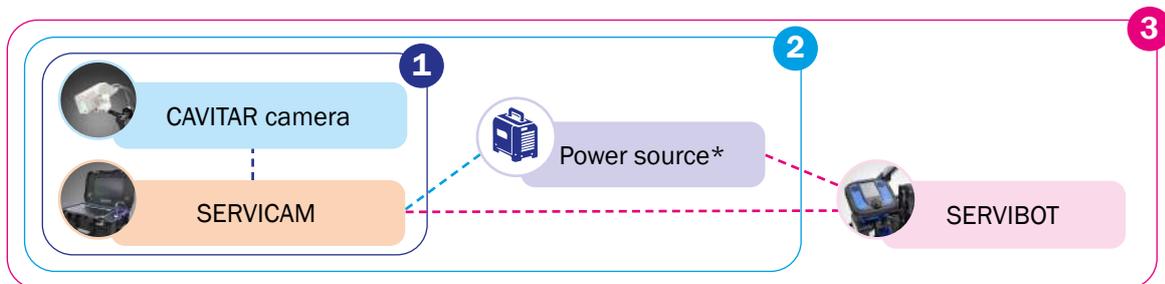
- Viewing of the welding operation
- Recording of the image

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)

CONFIGURATIONS

SERVICAM

1



SERVICAM 15" case

2



SERVICAM 21" case

3



SERVICAM unit

4



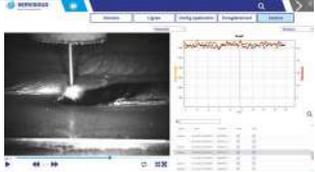
SERVICAM C300

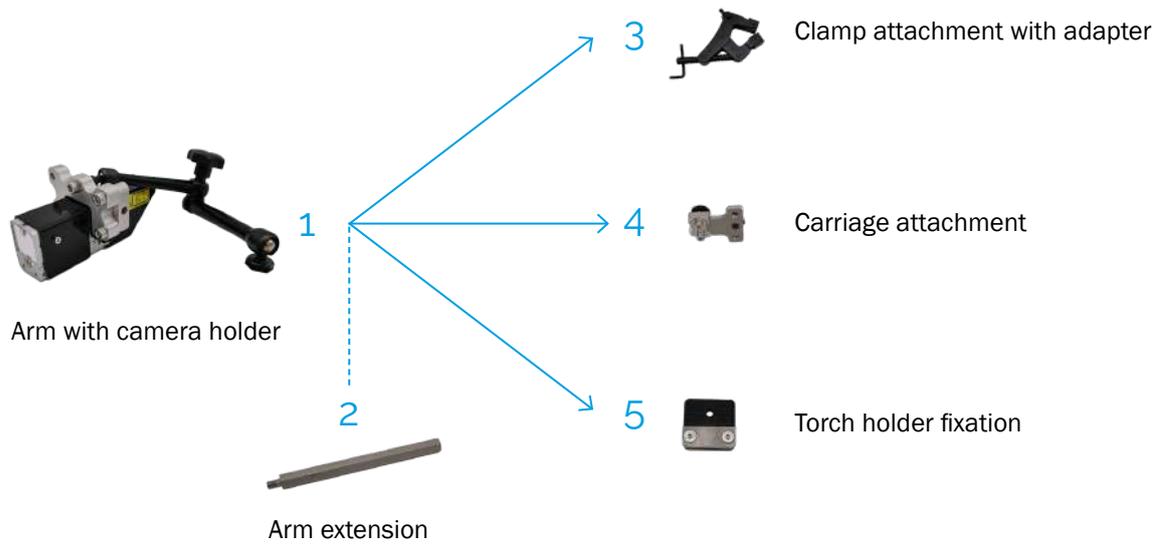
	DESIGNATIONS	PART NUMBERS
1	SERVICAM 15" case	SV 84000 1000
2	SERVICAM 21" case	SV 84000 2000
3	SERVICAM unit	on request
4	SERVICAM C300 (C300 camera with 1 software licence)	KITCAMC300

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 2000
Extension / PC adapter bundle		SV 84006 2000
Prism 90°		SV 84003 0100
C300 camera protective screen (set of 5)		Plastic: VITR0005-SET5
		Glass: VERR0049-SET5
Air filtration assembly for camera cooling		SV 84000 1100
Detachable extension Camera / Case		5 m: SV 84004 4005
		10 m: SV 84004 4010
		15 m: SV 84004 4015



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

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.

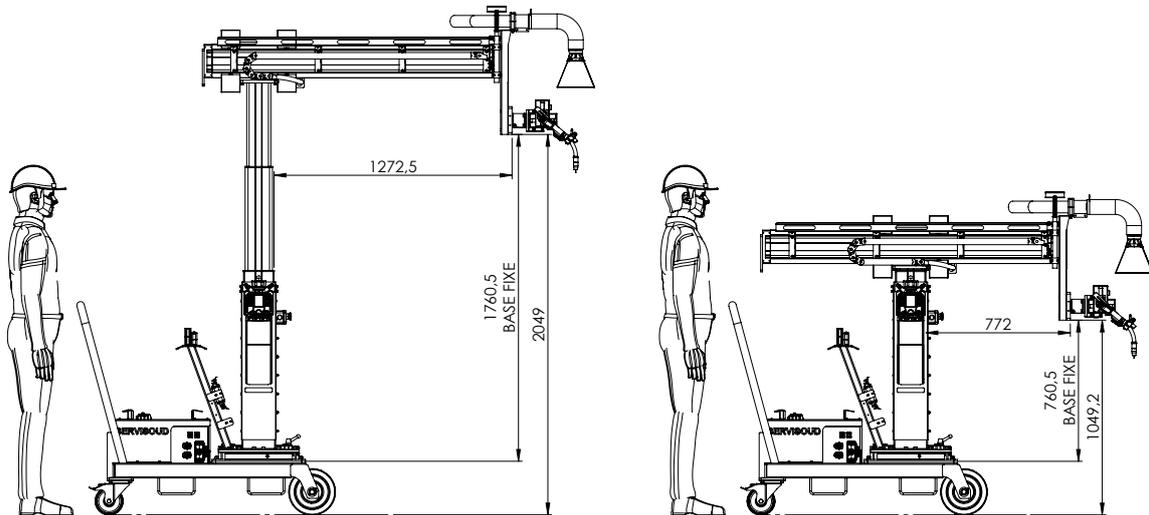
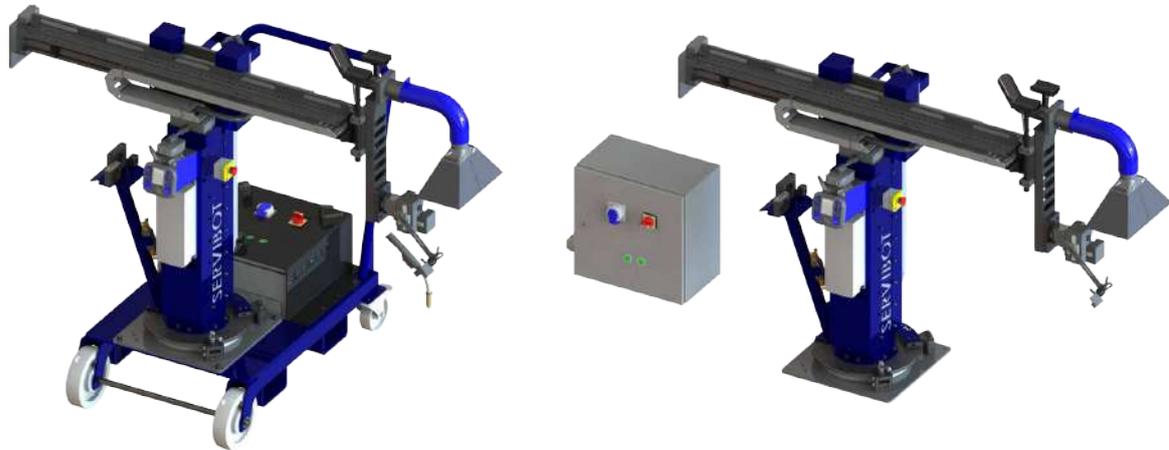
This modular mechanisation solution provides a **simple alternative to cobotic and robotic solutions**.

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.

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.

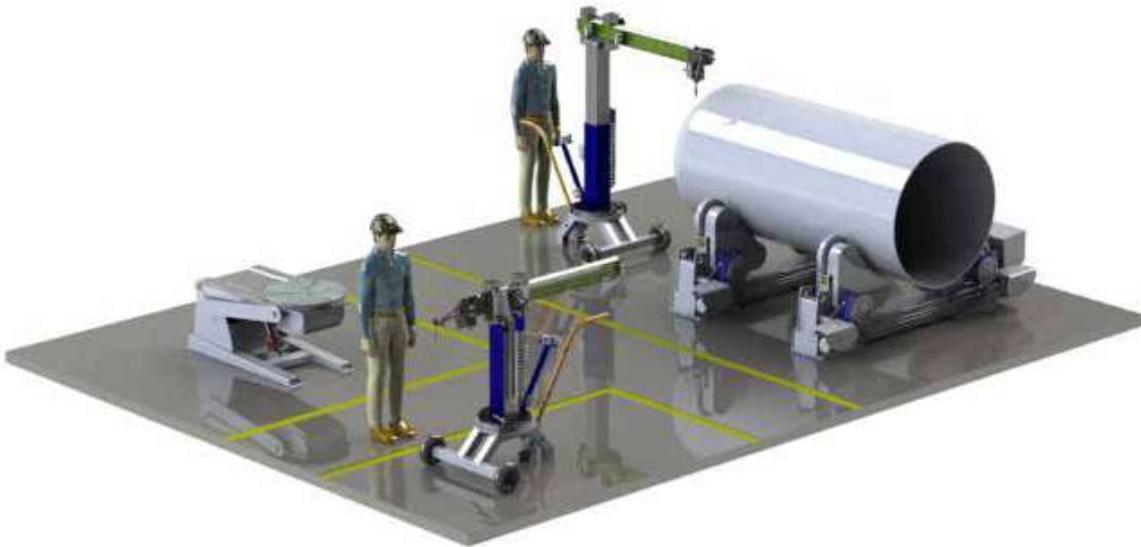
	SERVIBOT BOOM
Stroke	1 m x 1 m
Under arm height	2.3 m in max. extension
Load capacity	40 kg at the end of the arm
Weight (mobile version)	290 kg

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.

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 **equipment 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!

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.

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.

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.

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



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Administrative site

Bureau 1.1, rue de la Gâtine
Parc des activités du tremplin - ZI du Cornier
49300 CHOLET
Tel: +33 (0)2 41 58 72 75
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SERVISOUD LENCLÔÎTRE

Manufacturing unit

27 rue de St Exupéry
86140 LENCLÔÎTRE
Tel: +33 (0)5 49 19 42 22
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