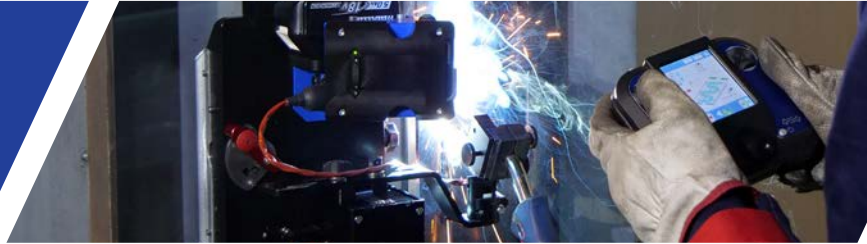




SERVISOUD

Europe Technologies group

**MADE IN
FRANCE**



SERVIBOT SYSTEMS

Programmable and standalone carriage



SERVISOUD is a brand of the EUROPE TECHNOLOGIES group



INNOVATION FOR WELDERS

**WELDING - CUTTING CARRIAGE
CUSTOMIZED MACHINES - REFURBISHING
INDUSTRIAL WELDING SUPPLIES
EQUIPMENT RENTAL
CERAMIC SLATS
AUTOMATION EQUIPMENT
WELDING EQUIPMENT MAINTENANCE**

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

Part of the range consists of connected welding carriage; autonomous and programmable in all positions.

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

They are ergonomic and designed for productivity gains, welding quality and user friendly.

SERVISOUD designs and manufactures welding carriage and mobile welding solutions for all types of applications (shipyards, metal constructions, silos, tanks, etc.). We also provide ceramic slats (**SERVILATTES**) and a dedicated welding wire service (**SERVIFIL**).

We provide welding equipment maintenance services (**SERVITRUCK**), while developing specific carriages and customized solution according to the client requirements. (**SERVIMATIC**).

SERVISOUD is a brand of the EUROPE TECHNOLOGIES group.

With more than 25 years of experience, the EUROPE

TECHNOLOGIES group provides expertise for the industrialisation, manufacture and maintenance of composite, metal and plastic parts and sub-assemblies.

The project was supported by :



THE HISTORY OF SERVISOUD WELDING CARRIAGES

During the 1990s, SERVISOUD designed and manufactured welding carriage and machines specially-designed for our customers.

In the 2000s, SERVISOUD designed its first standard range of welding carriage. As detailed below :



GLUMAG



MAGLIGHT



POLYMAG



FLATMAG 2



RAILMAG



*Carriage not sold since september 2022

Thanks to their portability, their autonomy (battery supply) and their ease of use, SERVISOUD welding carriage are well-known for increased productivity and welder comfort.

INDUSTRIAL MARKETS



Navy



Energy



Boilermaking

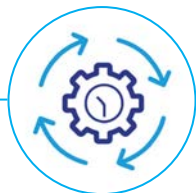


Agriculture



Railway

WHY MECHANISE ?



Productivity

Mechanisation of welding ensures:

1. **To increase arc-on time**, that is, the actual welding time during a shift.
This time is greatly increased on long weld applications to be made without stopping and restarting.
2. **To reduce risk of defects and required repairs.**
3. **To optimise welding parameters and deposit rates while increasing welding speeds.**(for certain applications)



Quality

Mechanisation ensures **precise control of the weld quality**. **Weld beads are repeatable and more uniform, thus improving the aesthetics.**

SERVISOUD carriage **reduce the rate of defects**, specifically by reducing the number of stops and recoveries compared to manual welding.

A precisely controlled welding operation via mechanisation ensures a better heat supply control and reduces the deformations.



Safety

Finally, mechanising welding processes allows to increase the safety of welders at their operating positions.

Indeed, our welding solutions **reduce exposure to heat, UV irradiation and fumes**, as welders are positioned further from the torch.

Thanks to their mobility and autonomy, carriage help welder **to avoid a static position thus reducing arduousness and the risks of developing musculoskeletal disorders.**

SERVIBOT FAMILY

ORIGINAL RANGE

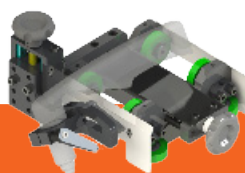
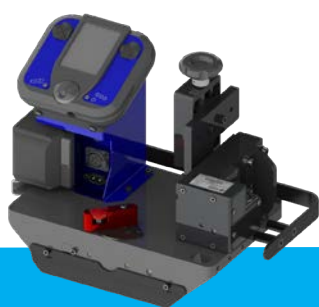


EVOLUTIVE RANGE

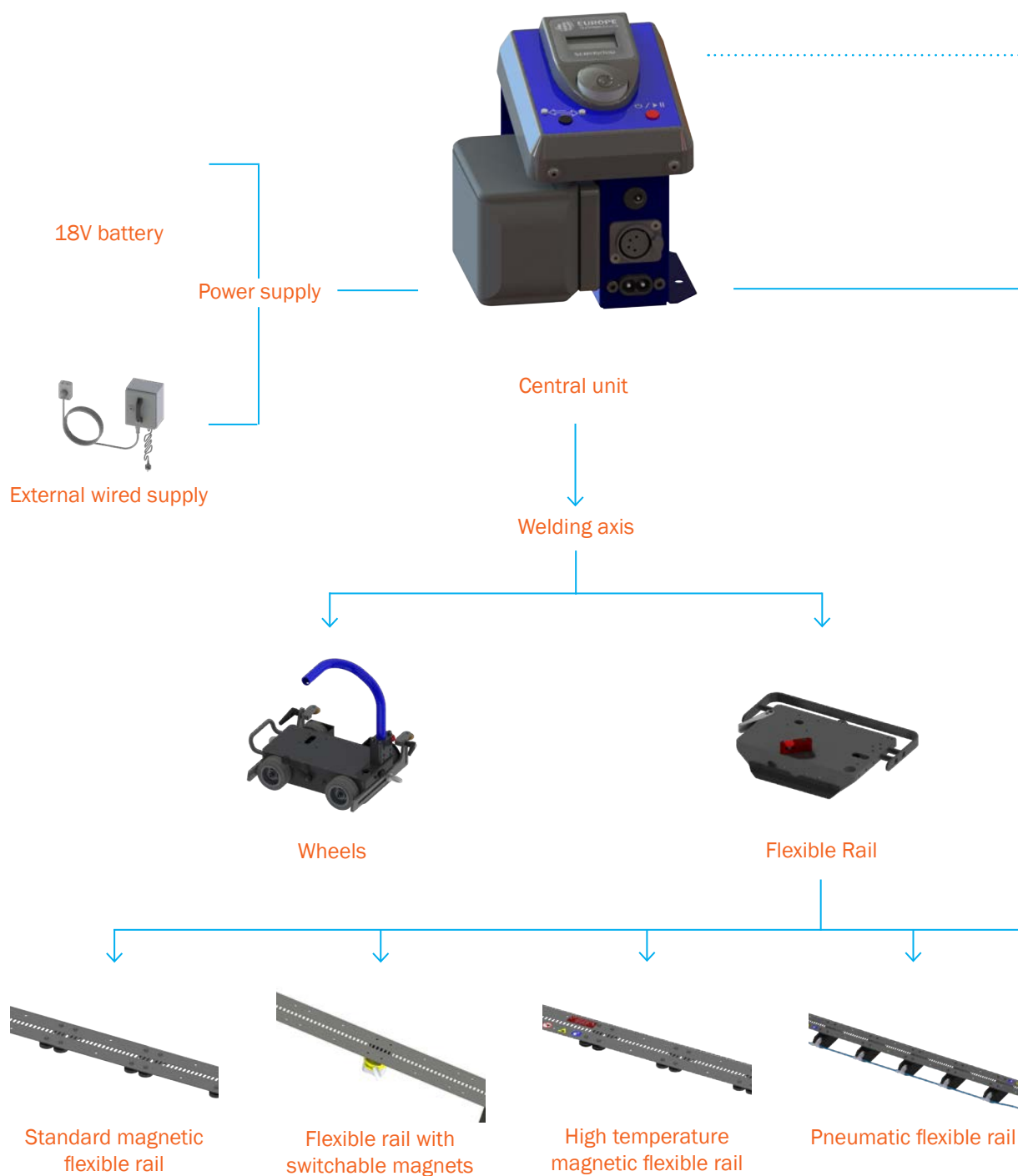


SPECIAL RANGE

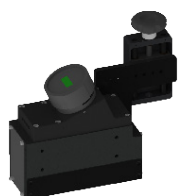




ORIGINAL RANGE



KITS



Slides and oscillators
Historic range
ex: SwingMag oscillator, RockMag



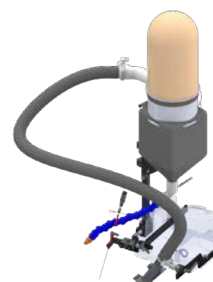
Manual slide(s)



Standard magnetic
stiffened rail



MIG / MAG



SAW welding

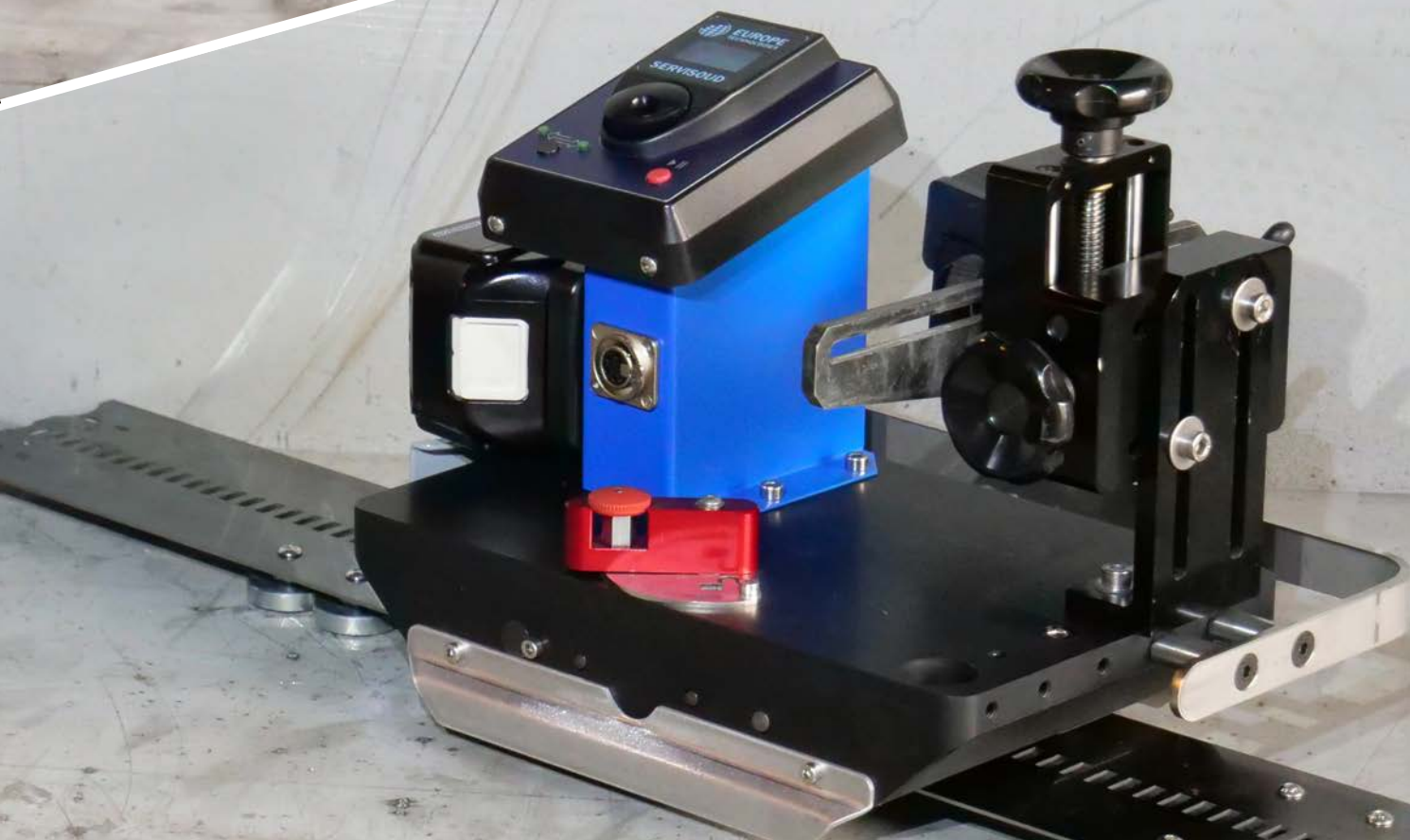


Oxy-cutting



Plasma cutting

GLUMAG® ORIGINAL - Standard manual



TRACKMAG® ORIGINAL - Standard Manual

CARRIAGE COMPOSITION

Central unit with simple HMI interface

Composed by the following element:

- A versatile **power supply**
- **Indicator lights** for the operating status and direction indication
- **Connectors:**
 - **Arc detection sensor:** the trolley start-up is controlled by the welding arc
 - **Trigger:** for the trolley to control the start-up of welding or any other wired supply (*option with 2 trigger on demande*).
 - **Accessory:** to connect a controlled or powered accessory from the SERVIBOT range



This interface is easy and intuitive, allowing to realise intermittent cycle programming. The user can set the language (french / english) and the length unit (cm or inch). A menu is available to program a continuous arc (2 strokes) or trigger (4 strokes) welding cycle with a defined length and in intermittent welding (up to 99 iterations). The screen shows one the actual speed of the carriage with the possibility to adjust it in a dynamic mode via the adjustment knobs.



The different bases: movement axes

The base is the element that defines the type of movement on the part. One or more motorisations can be installed on it and all the elements of the SERVIBOT system are mounted on it.

STANDARD WHEEL BASE

The wheel base with double motorisation moves directly on the work piece.

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

- directly on the part in the case of a fillet weld
- or along a profile to be attached parallel to the weld joint
- along a magnetic guide rail available in the SERVIBOT accessories catalog (p.51).

The crabbing effect is used to maintain the trajectory against the guide.

All four wheels are always driven to optimise traction on the workpiece.

The wheel base is magnetic in order to allow work in any position on steel sheets.

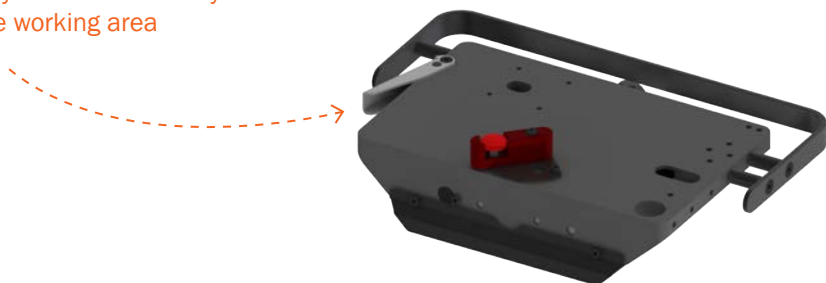


STANDARD RAIL BASE

The rail base is equipped with a motorisation allowing unidirectional movement on the rail. The rack and pinion drive is direct, which offers great speed stability and strong traction. The guide rollers on the flexible rail are adjustable, thus offering the possibility of moving the trolley on concave and convex parts or on tubes of a diameter DN1200 and more.

A range of guide rails can be combined with the base:

A clutch system allows the trolley to be moved freely on the rail to position it over the working area



Additional and positioning axes

To compose a complete system and position a tool such as a welding torch, it is necessary to add **at least 2 slides to the movement axis**.

These axes can be **manual or motorised** or a combination of both.

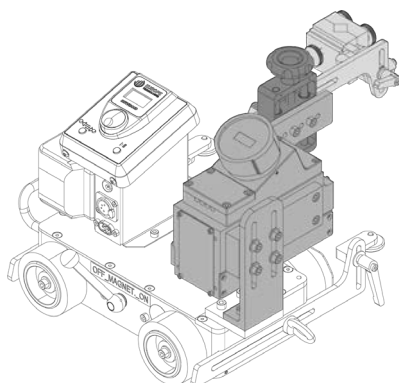
MANUAL SLIDE

Slide for manual positioning of the tool in the lateral or vertical direction. There are numerous tappings to allow a great flexibility of assembly and adjustment.

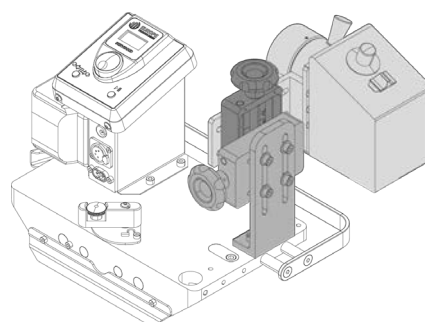


MOTORIZED AXIS

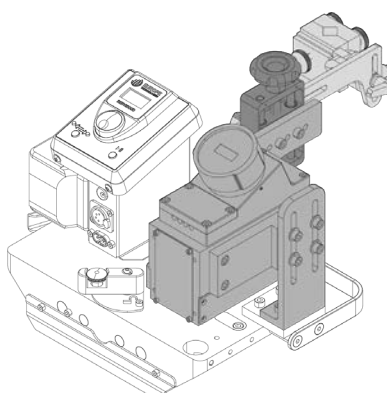
Carriages from the ORIGINAL range are compatible with positioning and oscillation of historical accessories with power supply of 14V via jack cable:



GLUMAG® Original
STEADYMAG Y slide + Z manual slide



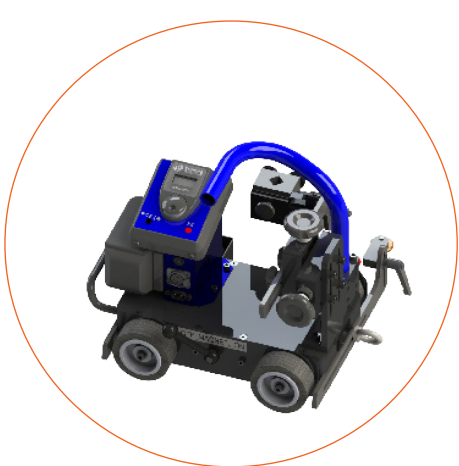
GLUMAG® Original
Pendular oscillator ROCKMAG +
Double manual slides Y/Z



TRACKMAG® Original
Oscillator Y SWINGMAG + Manual slide Z

CONFIGURATIONS

GLUMAG® ORIGINAL



GLUMAG® ORIGINAL
Standard

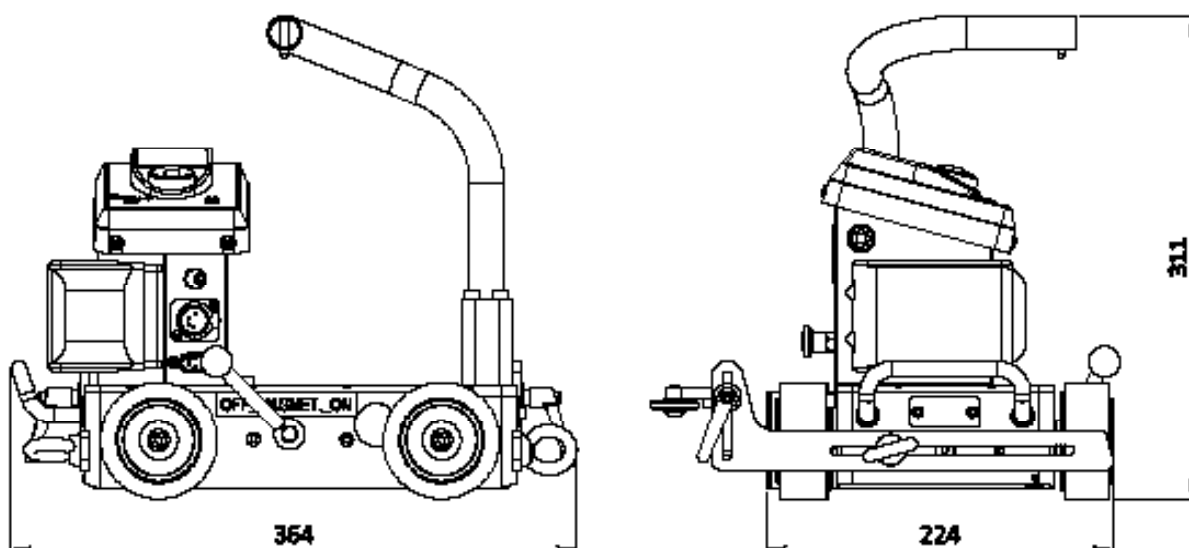


GLUMAG® ORIGINAL
Oxycutting version

DESIGNATION		PARTNUMBER WITH BATTERY CHARGER	PARTNUMBER WITHOUT BATTERY CHARGER
1	Simple motorization ; cross slides ; standard arm with arc detector ; trigger output ; output 14V	SV 923 S 2M 11 A	SV 923 S 2M 00 A
2	Simple motorization ; 2 stainless adjustment arms ; nozzle holder Ø32m ; 3 hoses ; gas manifold with shut-off valves and quick couplings	SV 923 S 00 11 B	SV 923 S 00 00 B

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

DRAWINGS



GLUMAG® Original



TECHNICAL CHARACTERISTICS

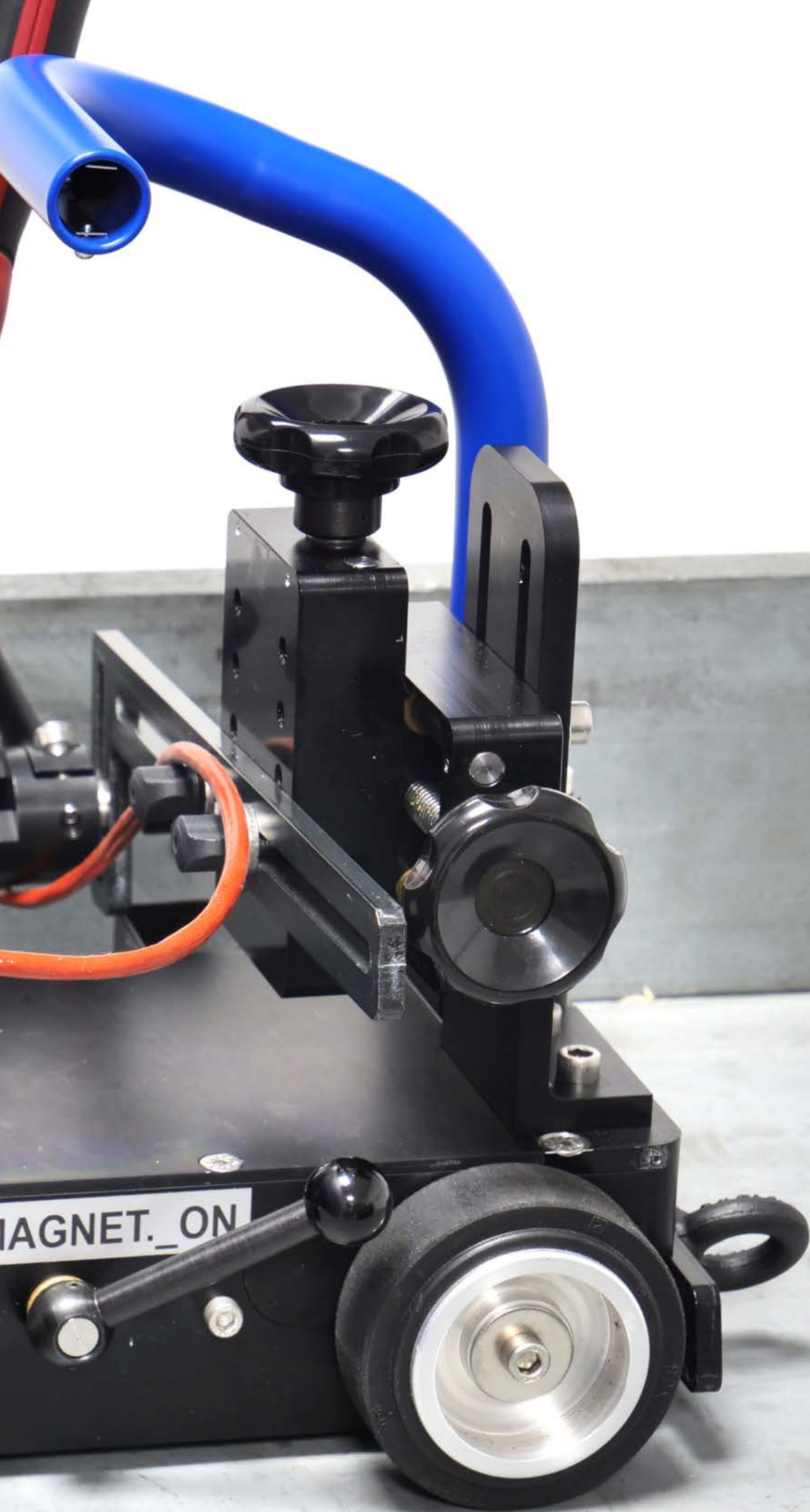
	GLUMAG® ORIGINAL
Drive	4 wheel drive
Travel speed range	1 - 200 cm/min (full battery charge)
Power supply	Li-Ion - 18 V - 5Ah
Battery autonomy	Mini 10 hours*
Magnet attraction force	28 kg
Torch holder	Universal quick release
Guidance	Crabbing support rollers
Dimensions (L x W x H)	364 x 224 x 311 mm
Weight (with battery)	9,1 kg*
Automatic start during welding	Arc detention (without generator connection) or torch trigger connection
Accessories for power supply	Jack plug - 14V Accessories compatible with the previous génération : SteadyMag / SwingMag / RockMag
Minimum pipe exterior diameter	1200 mm, lower on request

*Carriage alone, without historic motorized accessories

**According to configuration 1: GLUMAG® ORIGINAL Standard



GLUMAG® ORIGINAL - Standard manual

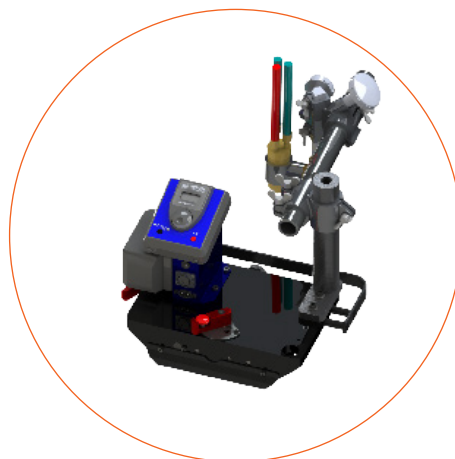


CONFIGURATIONS

TRACKMAG® ORIGINAL



TRACKMAG® ORIGINAL
Standard

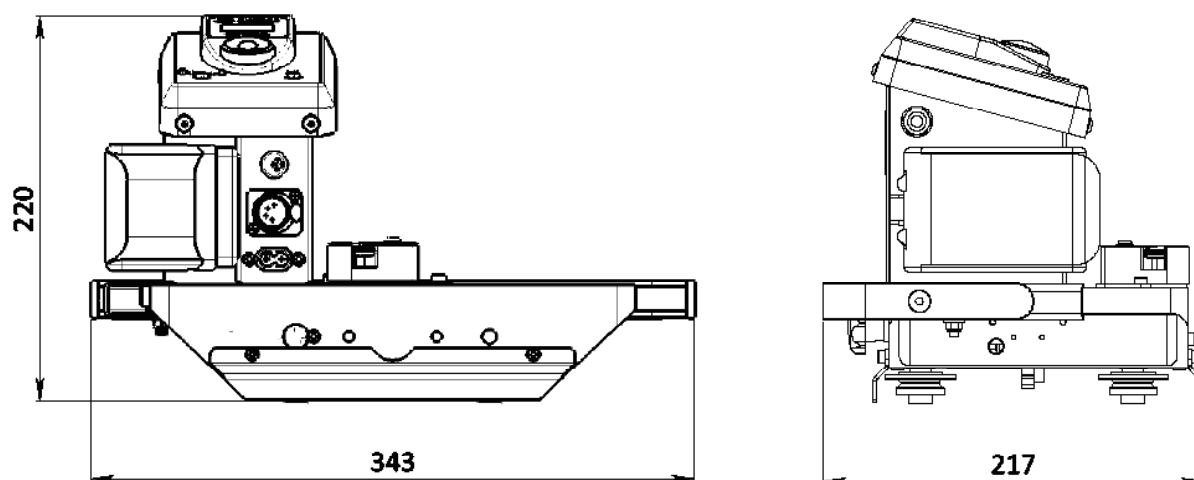


TRACKMAG® ORIGINAL
Oxycutting version

	DESIGNATION	PARTNUMBER WITH BATTERY CHARGER	PARTNUMBER WITHOUT BATTERY CHARGER
1	Crossed slides ; standard arm with arm detector ; trigger output ; output 14V	SV 924 S 2M 11 A	SV 924 S 2M 00 A
2	2 stainless adjustment arms ; nozzle holder Ø32m ; 3 hoses ; gas manifold with shut-off valves and quick couplings	SV 924 S 00 11 B	SV 924 S 00 00 B

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

DRAWINGS



TRACKMAG® ORIGINAL - Standard



TECHNICAL CHARACTERISTICS

	TRACKMAG® ORIGINAL
Drive	Clutch pinion
Travel speed range	1-200 cm/min
Power supply	Li-Ion - 18 V - 5Ah
Battery autonomy	10 hours*
Torch holder	Universal quick release
Guidance	Flexible rail or rigid rail
Dimensions (L x W x H)	343 x 217 x 220 mm
Weight	7 kg*
Automatic start during welding	Arc detection (without cable) or torch trigger connection
Accessories for power supply	Jack plug - 14V Accessories compatibles with older générations : SteadyMag / SwingMag / RockMag
Minimum tube diameter	1000 mm, lower on request

*According to configuration 1 : TRACKMAG® ORIGINAL - Standard

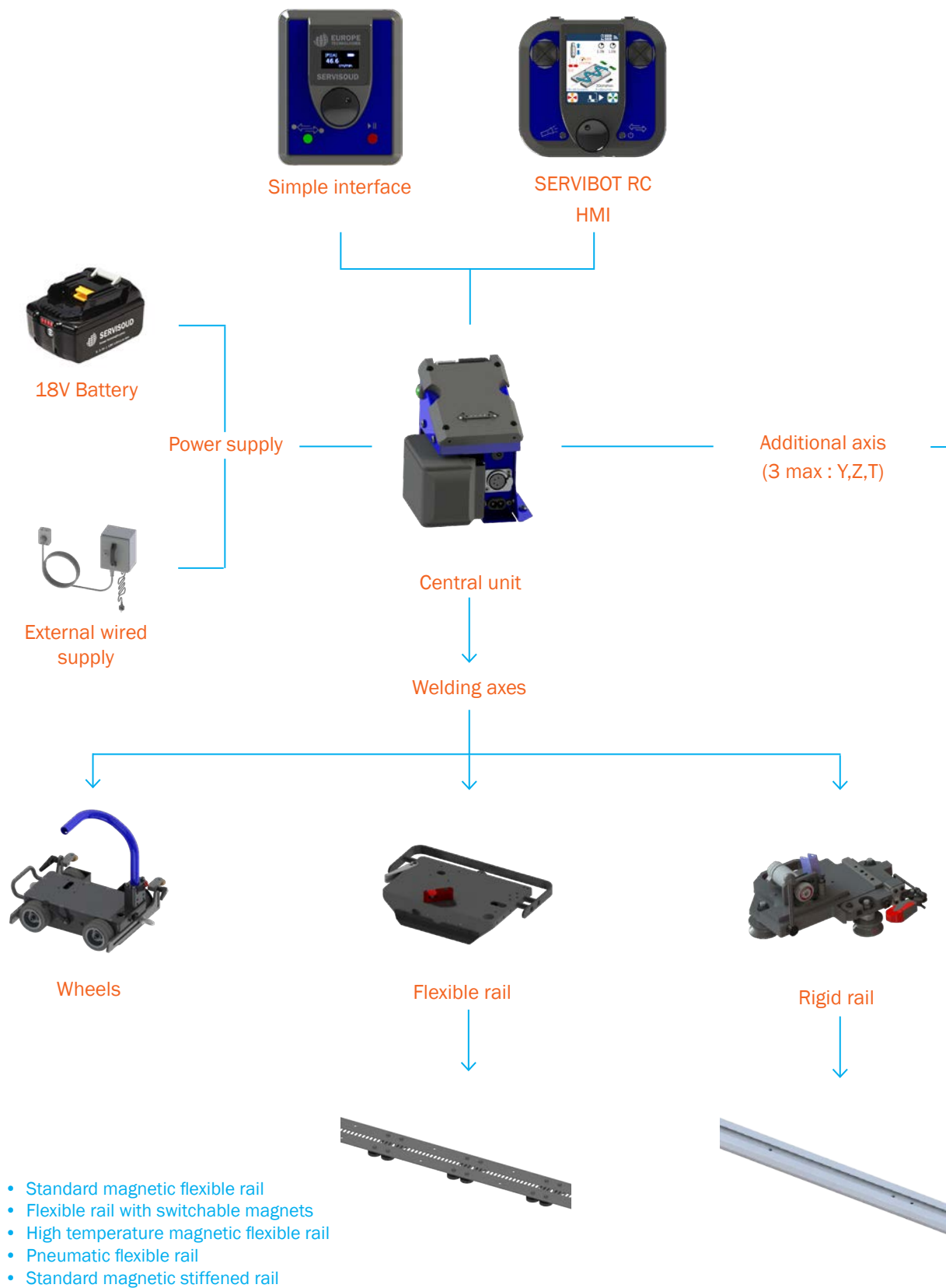




TRACKMAG® ORIGINAL - Oxycutting version

NE PAS UTILISER SUR
SURFACE CHAUDE
SUPERIEURE A 70°C

EVOLUTIVE RANGE



KITS



Manual slide(s)



Linear motorised axis



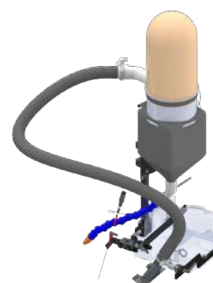
Angular motorised axis

Fixation for rigid rail :

- Switchable magnets
- Electric suction cup
- With mechanical hooks (on demand)



MIG / MAG



Saw welding



Oxycutting



Plasma cutting

TRACKMAG® EVO



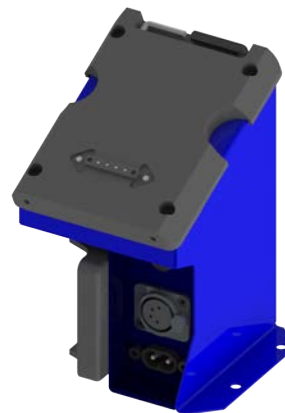
GLUMAG® EVO

CARRIAGE COMPOSITION

Central unit with simple HMI interface

The common element of the SERVIBOT range is connected central unit. It includes all the basic features necessary for the operation of the system:

- **Wireless Connectivity** : remote Update ; remote control
- A versatile **power supply**
- A **storage and charging stand** for the wireless HMI remote control
- **Indicator lights** for the operating status and direction indication
- **Connectors:**
 - **Arc detection sensor:** the trolley start-up is controlled by the welding arc
 - **Trigger:** for the trolley to control the start-up of welding or any other wired supply
 - **Accessory:** to connect a controlled or powered accessory from the SERVIBOT range
- **2 usefull Allen keys** for trolley adjustment and basic maintenance



SERVIBOT RC HMI

The SERVIBOT RC wireless remote control has been designed for intuitive and ergonomic control of multi-axis solutions.



Built-in magnets for placing on metal parts
Neck strap mounting bracket

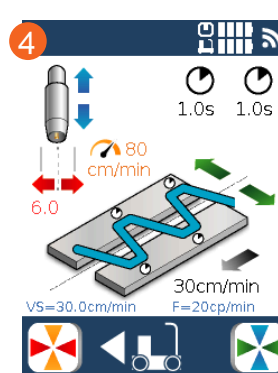
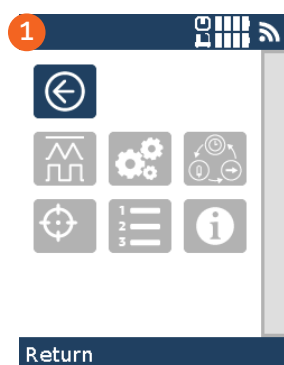
SERVIBOT RC INTERFACE

The Human-machine interface has been developed specifically to meet a maximum of welding applications. It is also designed for controlling other processes.

- ① The interface is intuitive and configurable according to the application.
- ② The use of images and icons is designed for an easy understanding.
- ③ Simple linear traversing: the trolley forward speed can be changed and the position of the trolley axes, symbolised by the coloured arrows, can be controlled. This mode can be used to make a pulled weld bead.
- ④ Interface for creating a weaving welding bead. The additional axes are then driven like oscillators. The parameters identified by the coloured arrows can also be modified using the directional crosses and the knob.

The **remote control can be easily** configured. For example, the orientation of the control buttons can be modified according to the positioning of the operator and of the system.

The use of the SERVIBOT RC wireless remote control is necessary for control any configuration of **2 or more axes**. For any operation, the wireless control provides a **real ergonomic advantage for the operator**.



The different bases: movement axes

The base is the element that defines the type of movement on the part. One or more motorisations can be installed on it and all the elements of the SERVIBOT system are mounted on it.

STANDARD WHEEL BASE

The wheel base with double motorisation moves directly on the work piece. The movement can be multidirectional with the use of a SERVIBOT RC.

All four wheels are always driven to optimise traction on the workpiece.

The wheel base is magnetic in order to allow work in any position on steel sheets.



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

- directly on the part in the case of a fillet weld
- or along a profile to be attached parallel to the weld joint
- along a magnetic guide rail available in the SERVIBOT accessories catalog (p.49).

The crabbing effect is used to maintain the trajectory against the guide.

In some application cases, such as SAW welding, guidance can be done directly via the SERVIBOT RC using the directional arrows.



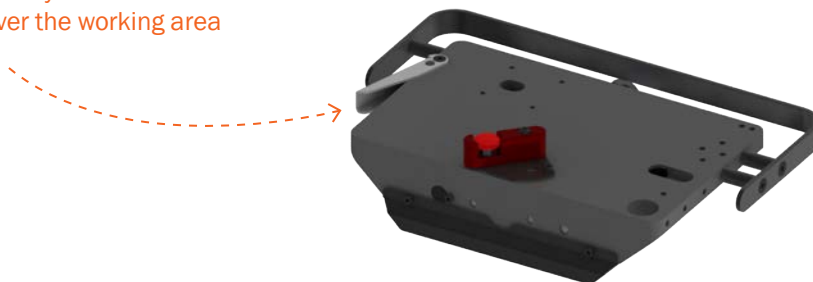
A word from the expert:

"The wheel base allows to create a very versatile and quick carriage set up. The fact that the carriage moves directly on the part means it can adapt to its profile and limit stick out variations at the torch level."

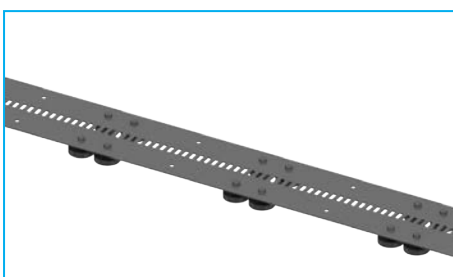
STANDARD RAIL BASE

The rail base is equipped with a motorisation allowing unidirectional movement on the rail. The rack and pinion drive is direct, which offers great speed stability and strong traction. The guide rollers on the flexible rail are adjustable, thus offering the possibility of moving the trolley on concave and convex parts or on tubes of a diameter DN1200 .

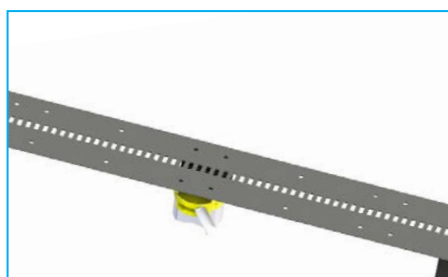
A clutch system allows the trolley to be moved freely on the rail to position it over the working area



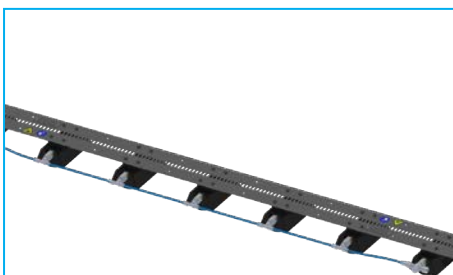
A range of guide rails can be combined with the base:



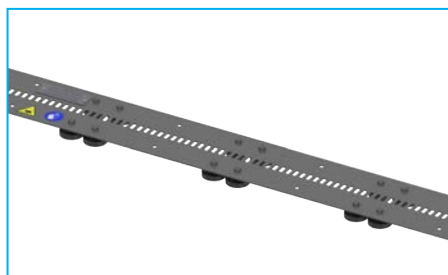
Standard or high temperature magnetic flexible rail



Flexible rail with switchable magnets simplifies set-up



Flexible pneumatic rail for application on non-magnetic materials



Stiffened rail with standard magnets or high temperature magnets

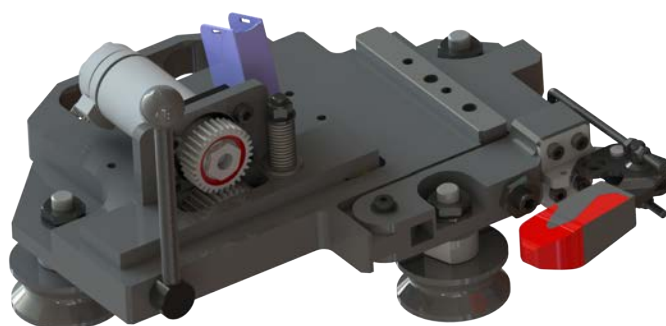


A word from the expert:

"The rail base is very practical to use for multi-pass applications: once the guide rails are in place, it is very easy and quick to return to the start of the welding zone after each pass thanks to the clutch system."

STANDARD RIGID RAIL

The rigid rail base is equipped with a motorization allowing an unidirectional movement on the rail. The rack and pinion drive is direct, which provides high feed stability and strong pulling power. The rigid rail, 60mm high, is self-supporting. If one doesn't use it, it could be removed from the part.



Foldable rigid rail

(Length on request, maximum length 3 meters)

There are different fixations systems for the rigid rail :

- Switchable magnetic
- Mechanical clamping
- Electro-portative suction cup

(For any specific request, contact us)

Additional and positioning axes

To compose a complete system and position a tool such as a welding torch, it is necessary to add **at least 2 slides to the movement axis**.

These axes can be **manual or motorised** or a combination of both.

Finally, for some applications, the motorised axes can be configured as an oscillator. The control part of the axis is then modified.

MANUAL SLIDE

Slide for manual positioning of the tool in the lateral or vertical direction. There are numerous tappings to allow a great flexibility of assembly and adjustment.



LINEAR AXIS

The motorised linear axis of the accurate SERVIBOT RC allows to control a tool with precise positioning.

The adjustment steps as well as the directions are configurable. The motorised axis can be configured as an oscillator by turning on the option in the SERVIBOT RC. New parameters will then be available on the interface.



ANGULAR PENDULAR AXIS

The angular axis is a third positioning axis that can be added in addition to both manual and/or motorised slides. The angular axis is used to perform positioning and pendular oscillation by turning on the option in the SERVIBOT RC.



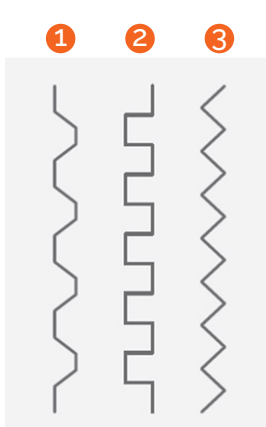
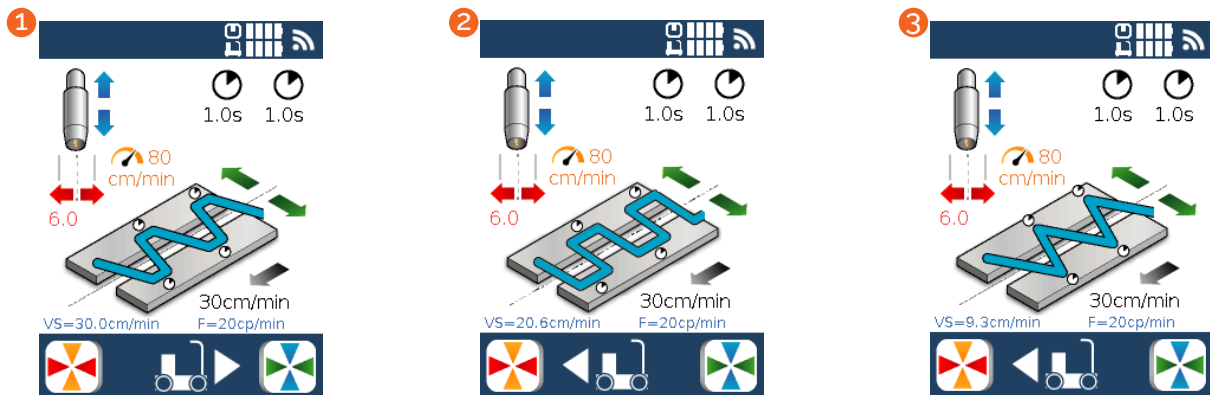
A word from the expert:

"The pendular oscillator allows a sweeping movement close to that of manual welding. It is interesting for narrow chamfers or with closed angles. However, the setting is more complex than a linear oscillator because the oscillator angle will depend on the torch height and the stick out."

Software options

WEAVING

3 oscillation levels are available:



1 Trapeze pitch

The movement axis makes it possible to carry out oscillations with a trapeze pitch: the advance of the movement axis is constant at the welding speed.

2 Square pitch

The movement axis moves forward during the time on the side.

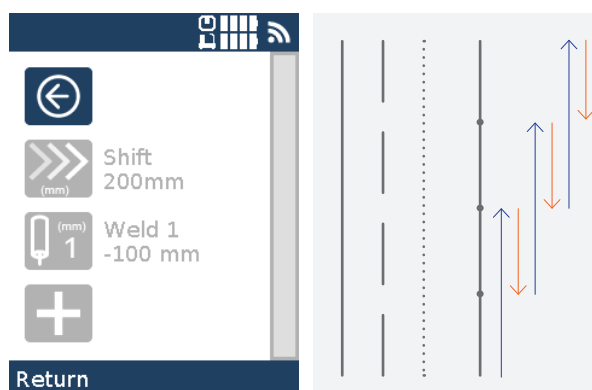
Attention: the overall welding speed is lower than the speed of the movement axis.

3 Triangular pitch

The movement axis advances during the side movement.

Attention: the overall welding speed is lower than the speed of the movement axis.

CYCLE PROGRAMMING OPTION



A block programming module has been developed to generate intermittent, spot or back-step welding cycles.

The carriage advances 200 mm without welding.

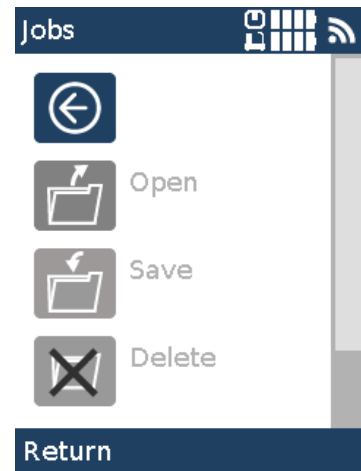
The trolley moves back -100 mm while welding.

RECIPE SAVING OPTION

This option allows to save a set of settings and a machine configuration as a recipe.

Up to 30 recipes can be stored in the carriage memory.

It is possible to save the recipes of a carriage to a remote control. The transfer of recipes to another carriage is possible by pairing the remote control to it.



DEVELOPMENT AND UPDATE OF A SERVIBOT SYSTEM

SERVIBOT systems have been designed to be fully scalable and as simple as possible for the user.

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

Additional axes are available such as linear axis and angular axis work by automatic detection. No configuration is necessary, just plug in and the related options appear on the screen of the SERVIBOT RC.

Software options can be ordered at any time during the lifetime of the system and activated remotely by following the update procedure.

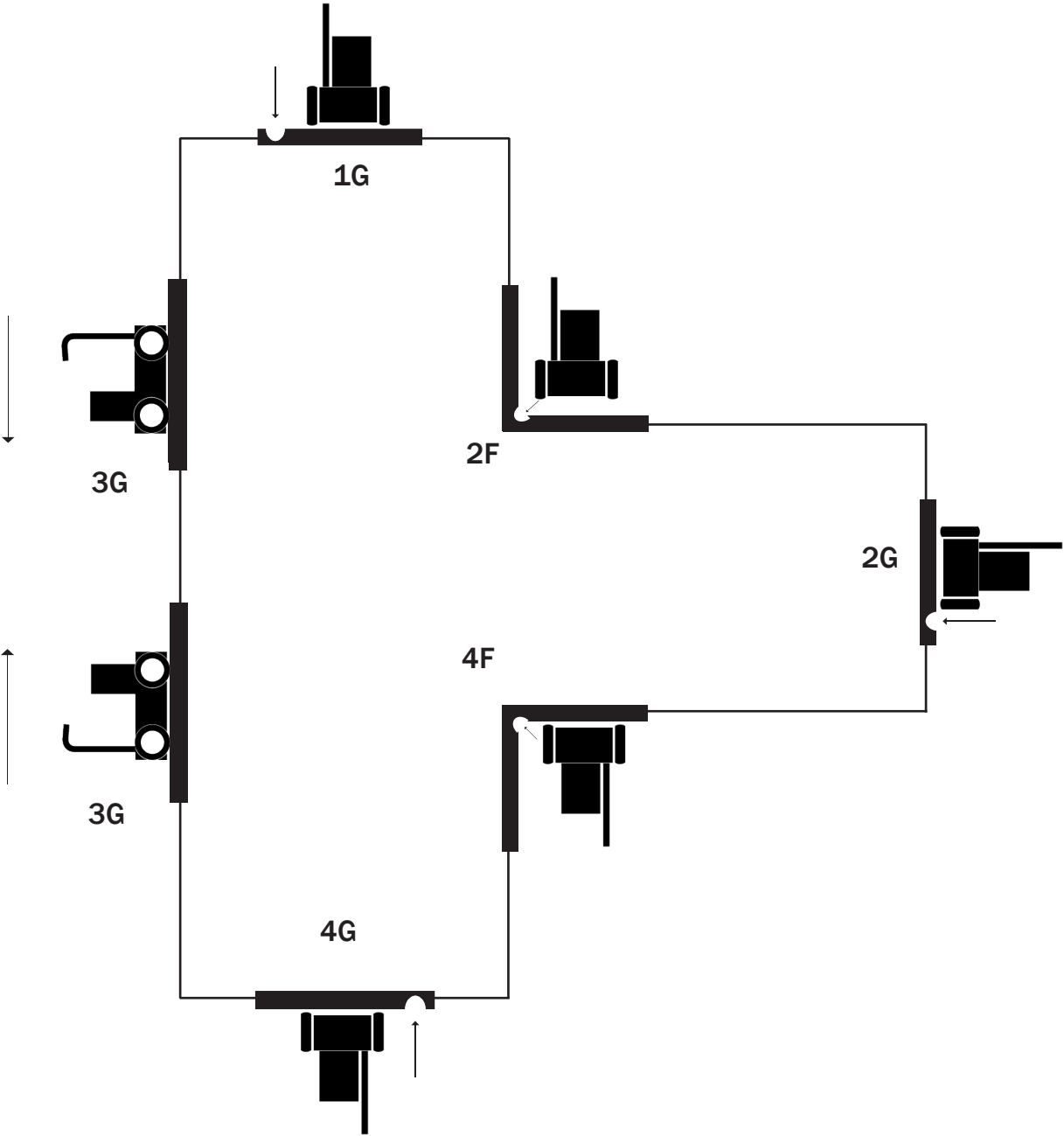
Regular system updates are made available to users. The procedure can be carried out using WIFI connection sharing.



A word from the expert:

“For multipass welding, it is possible to save a recipe for each pass or layer when searching for settings, which saves time in production.”

WELDING POSITIONS





GLUMAG® EVO

CONFIGURATIONS

GLUMAG® EVO



	DETAILS	PARTNUMBER WITH BATTERY CHARGER	PARTNUMBER WITHOUT CHARGER BATTERY
1	Double motorisation - end-position devices - end of sheet metal inductive sensors	--	SV 921 0 00 00 0
2	Double motorisation - double Y/Z manual slides - simple interface HMI - limit stops - end of sheet metal inductive sensors	SV 921 S MM 11 A	SV 921 S MM 00 A
3	Double motorisation - motorised Y axis + Z manual slide - SERVIBOT RC HMI - limit stops - end of sheet metal inductive sensors	SV 921 R EM 11 A	SV 921 R EM 00 A
4	Double motorisation - motorised Y/Z axes - SERVIBOT RC HMI - limit stop - end of sheet metal inductive sensors	SV 921 R EE 11 A	SV 921 R EE 00 A
5	Double motorisation - motorised Y axis + Z manual slide - SERVIBOT RC HMI - limit stop - end of sheet metal inductive sensors + angular axis	SV 921 R EM 11 A + SV 95900 2000	SV 921 R EM 00 A + SV 95900 2000
6	Double motorisation - motorised Y/Z axes - SERVIBOT RC HMI - limit stops - end of sheet metal inductive sensors + angular axis	SV 921 R EE 11 A + SV 95900 2000	SV 921 R EE 00 A + SV 95900 2000

1



GLUMAG® EVO
Only

2



GLUMAG® EVO
Standard manual

3



GLUMAG® EVO
Standard motorised Y axis

4



GLUMAG® EVO
Standard motorised Y/Z

5



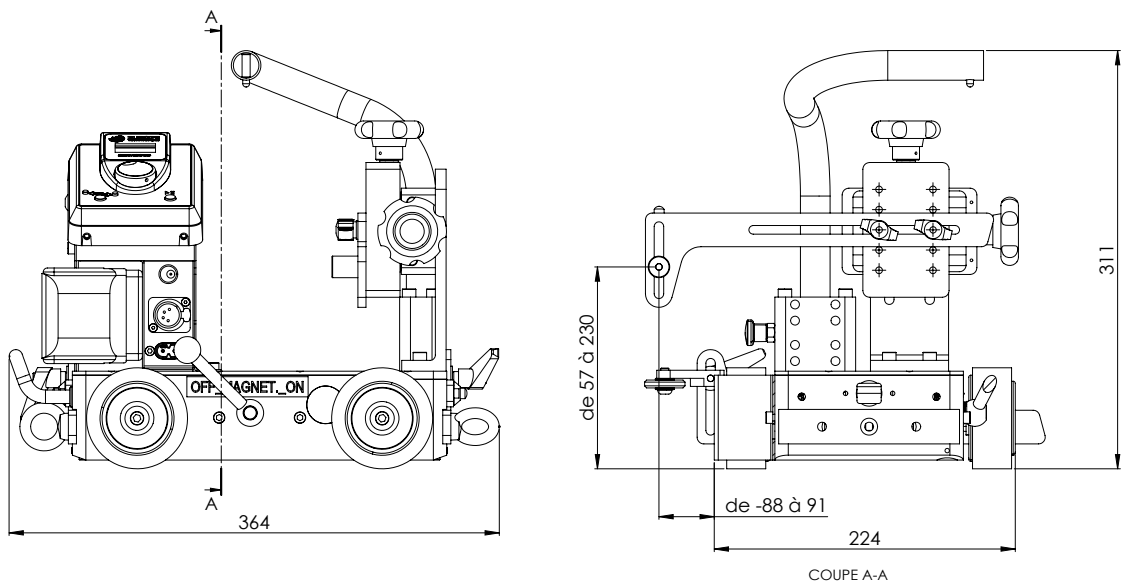
GLUMAG® EVO
Standard motorised Y + angular axis

6

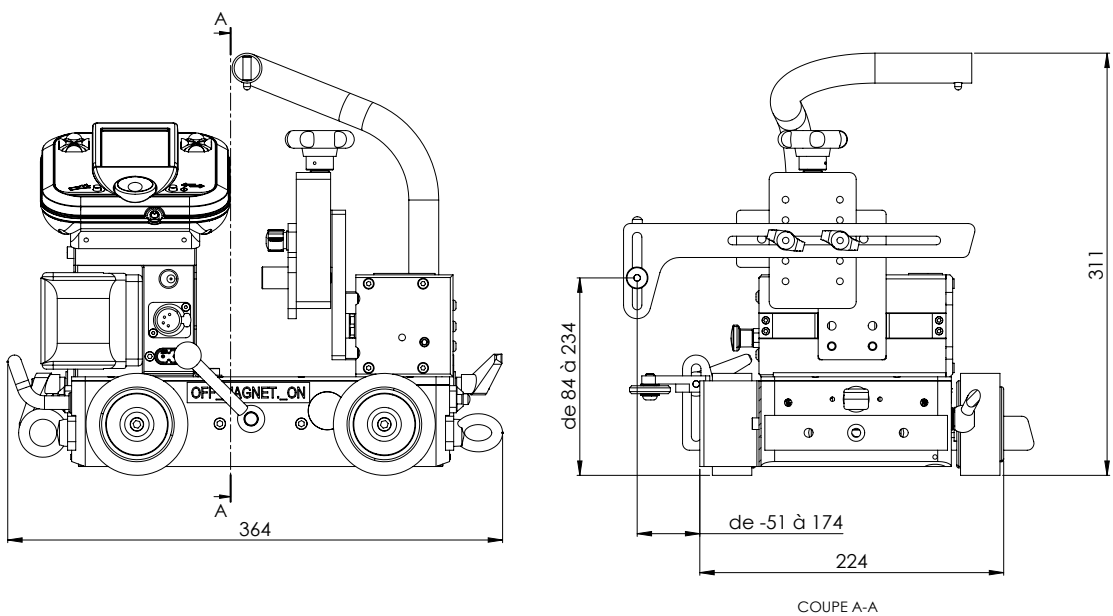


GLUMAG® EVO
Standard motorised Y/Z + angular axis

DRAWINGS

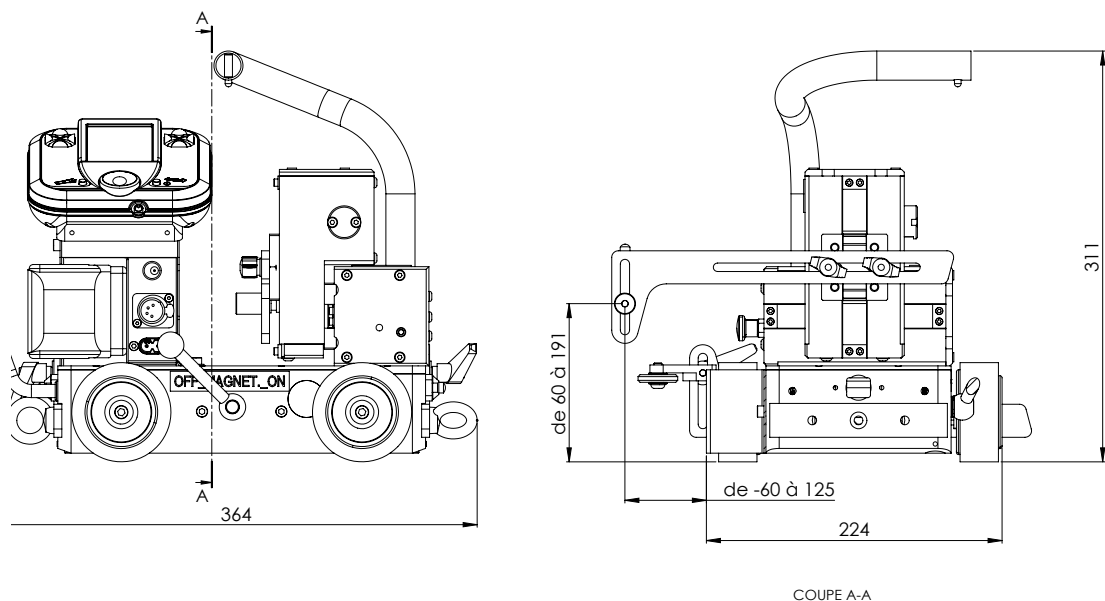


GLUMAG® EVO - Standard manual

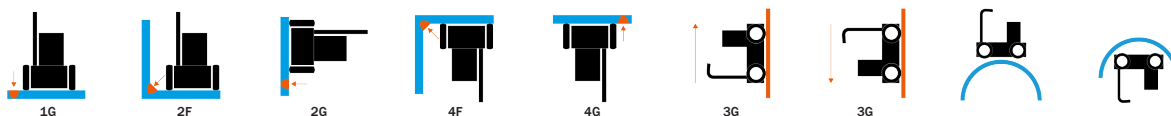


GLUMAG® EVO - Standard motorised Y

(Dimensions in mm)



GLUMAG® EVO - Standard motorised Y/Z



TECHNICAL CHARACTERISTICS

	GLUMAG® EVO		SERVIBOT RC HMI
Drive	4 wheels drive		
Travel speed range	1 - 180cm/min (full battery charge)		
Power supply	Li-Ion - 18V - 5Ah		Li-ion
Battery autonomy	Minimum 10 hours*		8 hours.
Magnet attraction force	28 kg		
Torch Holder	Universal quick release		
Guidance	Crabbing support rollers		
Dimensions (LxWxH)	365 x 225 x 310 mm		
Weight (with battery)	9.1 kg*	12 kg**	400g
Automatic start during welding	Arc detection (without generator connection) or torch trigger connection		
Minimum pipe exterior diameter	1200 mm, lower on request		

(* Depending on configuration n° 2 p.35 | ** Depending on configuration n° 6 p.35)

COMPATIBLE KITS

MIG/MAG WELDING



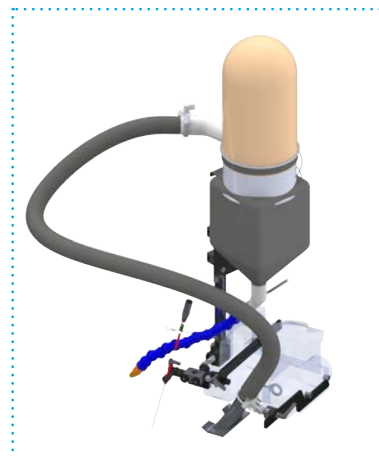
Ref: SV 00233 0000

MIG/MAG ANGULAR WELDING



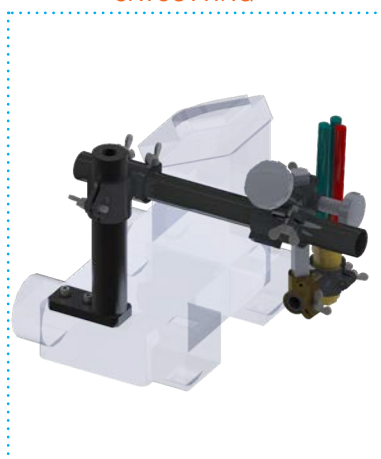
Réf : SV 00251 0000

SAW WELDING



Ref: SV 96400 0001

OXYCUTTING



Ref: SV 00212 1100

PLASMA CUTTING



Ref: SV 00246 2000

(Torche holder Ø35 version)*

*with Duramax mini-machine torch, 180° angle, for PMX 105 Hypertherm

COMPATIBLE OPTIONS:

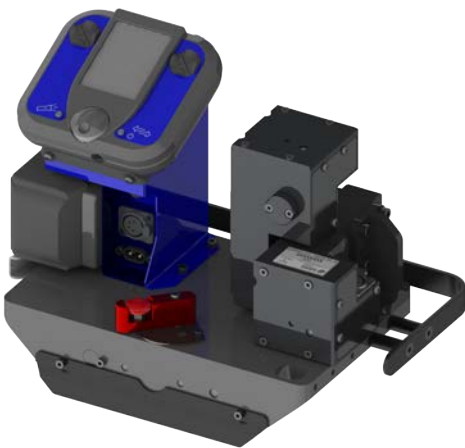
Name	Part number
Oscillation option	SOFT 0001
Cycle programming option	SOFT 0002
Recipe saving option	SOFT 0003
Assisted automatic guidance option	SOFT 0005
Advanced oscillation option	SOFT 0006

02-49-90 07 98

TRACKMAG® EVO

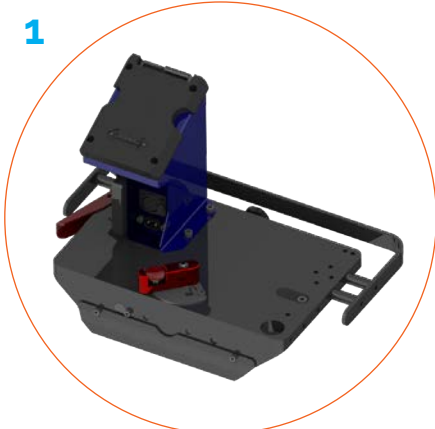
CONFIGURATIONS

TRACKMAG® EVO



	NAME	PART NUMBER WITH BATTERY CHARGER	PART NUMBER WITHOUT BATTERY CHARGER
1	Base carriage	--	SV 922 0 00 00 0
2	Double manual slides - simple interface HMI	SV 922 S MM 11 A	SV 922 S MM 00 A
3	Motorised Y axis + Z axis manual slide - SERVIBOT RC HMI	SV 922 R EM 11 A	SV 922 R EM 00 A
4	Motorised Y/Z axes - SERVIBOT RC HMI	SV 922 R EE 11 A	SV 922 R EE 00 A
5	Motorised Y axis + Z axis manual slide - SERVIBOT RC HMI + angular axis	SV 922 R EM 11 A + SV 95900 2 000	SV 922 R EM 00 A + SV 95900 2000
6	Motorised Y/Z axes - SERVIBOT RC HMI + angular axis	SV 922 R EE 11 A + SV 95900 2000	SV 922 R EE 00 A + SV 95900 2000

1



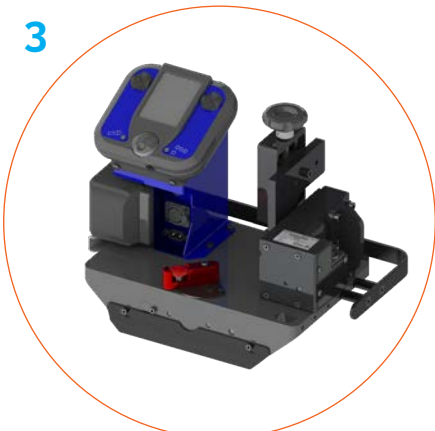
TRACKMAG® EVO
Only

2



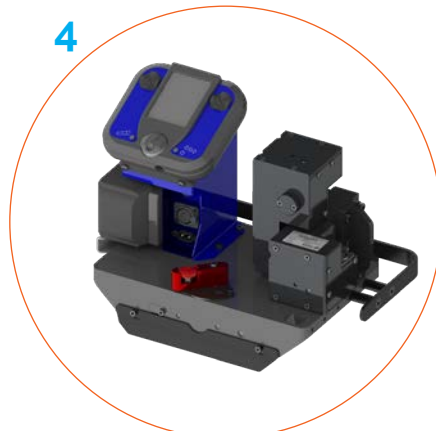
TRACKMAG® EVO
standard manual

3



TRACKMAG® EVO
Standard motorised Y axis

4



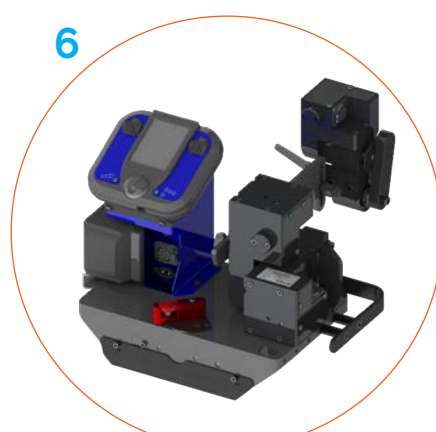
TRACKMAG® EVO
Standard motorised Y/Z axis

5



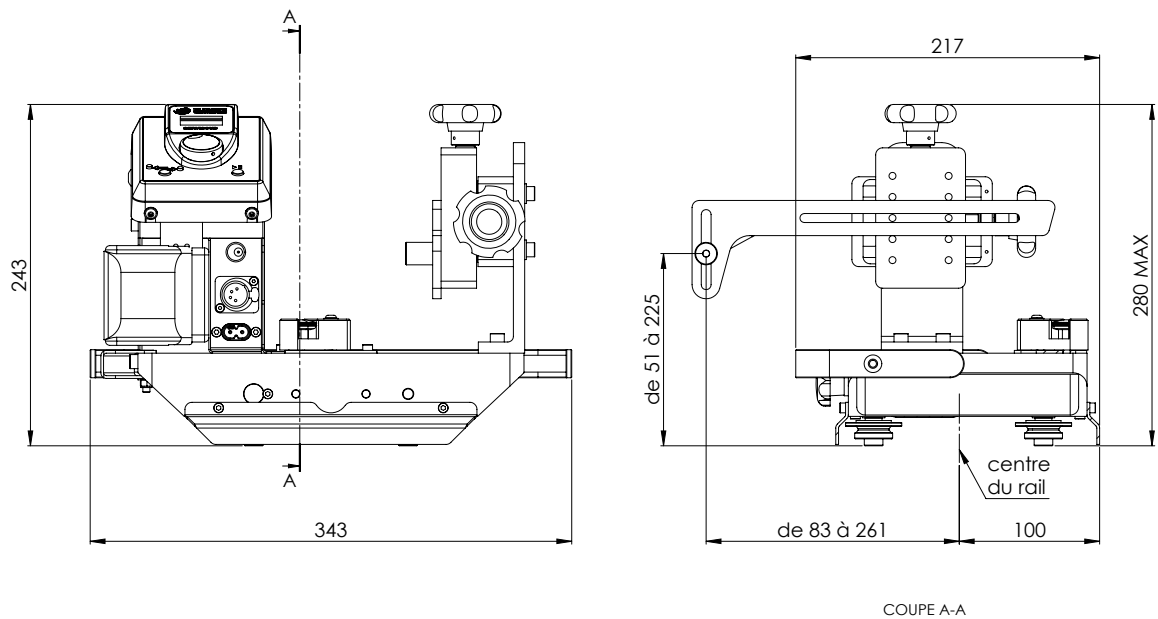
TRACKMAG® EVO
Standard Motorised Y axis + Angular Axis

6

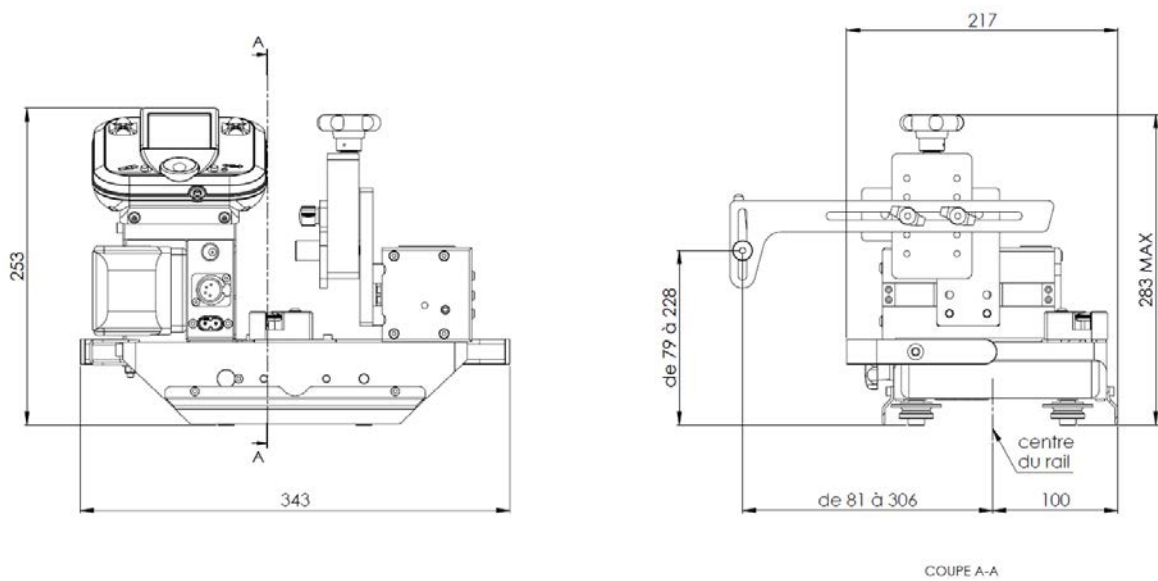


TRACKMAG® EVO
Standard motorised Y/Z axis + Angular
axis

DRAWINGS & DIMENSIONS

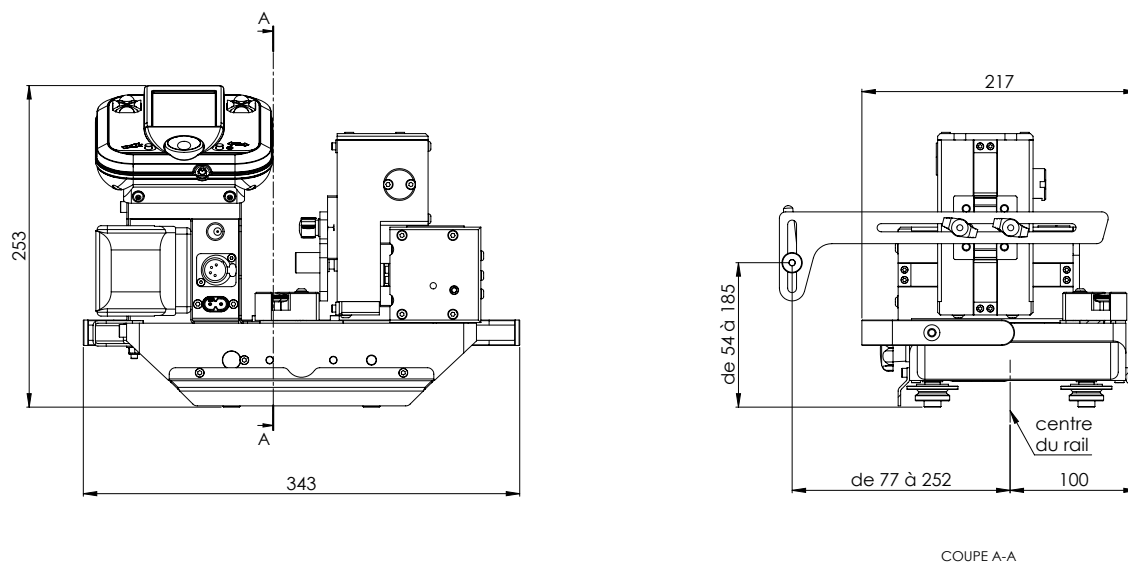


TRACKMAG® EVO - Standard manual

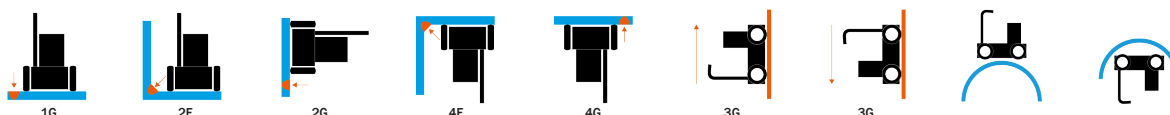


TRACKMAG® EVO - Standard motorised Y axis

(Dimensions in mm)



TRACKMAG® EVO - Standard motorised Y/Z axis



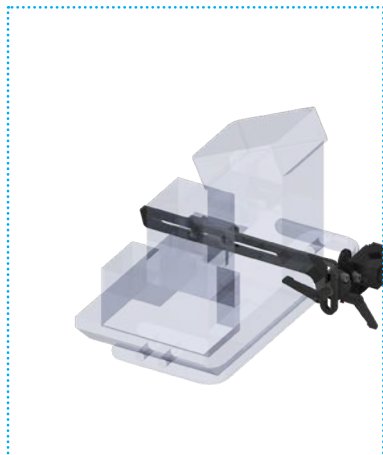
TECHNICAL CHARACTERISTICS

	TRACKMAG® EVO		SERVIBOT RC HMI
Drive	Clutch pinion		
Travel speed range	1-200cm/min		
Power supply	Li-Ion - 18V - 5Ah		Li-ion
Battery autonomy	10 hours*		8 hours
Torch Holder	Universal quick release		
Guidance	Flexible rail or rigid rail		
Dimensions (LxWxH)	345 x 220 x 255 mm		
Weight	7 kg*	9.5 kg**	400 g
Automatic start during welding	Arc detection (without cable) or torch trigger connection		
Minimum tube diameter	1000 mm, lower on request		

(*According configuration n° 2 p.41 | **According configuration n° 6 p.41)

COMPATIBLE KITS

MIG/MAG WELDING



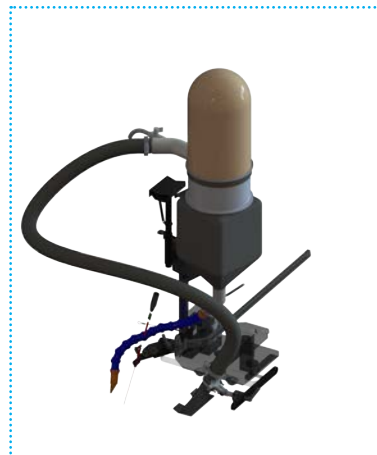
Réf : SV 00233 0000

MIG/MAG ANGULAR WELDING



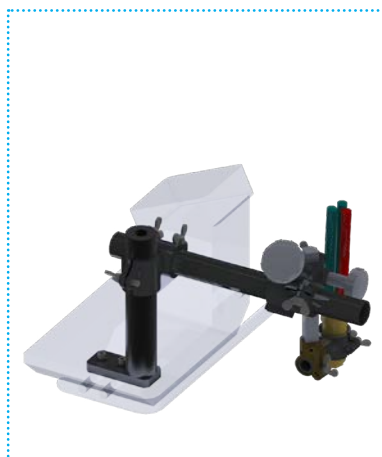
Réf : SV 00251 0000

SAW WELDING



Réf : SV 96100 0003

OXYCUTTING



Réf : SV 00212 1100

PLASMA CUTTING



Réf : SV 00246 2 000 *

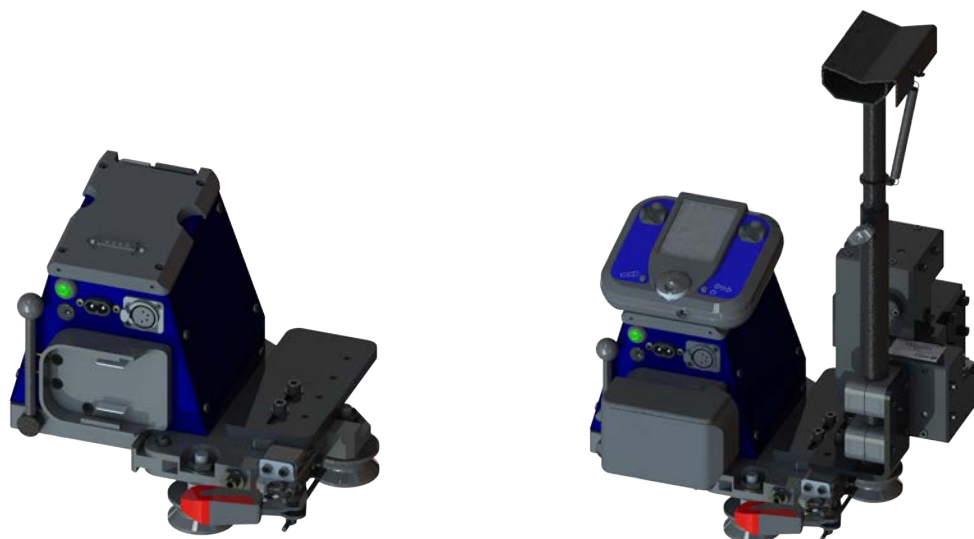
*with Duramax mini-machine torch, 180° angle, for PMX 105 Hypertherm

COMPATIBLE OPTIONS

Name	Part number
Weaving option	SOFT 0001
Cycle programming option	SOFT 0002
Recipe saving option	SOFT 0003
Assisted automatic guidance option	SOFT 0005
Advanced oscillation option	SOFT 0006
Learning option	SOFT 0007

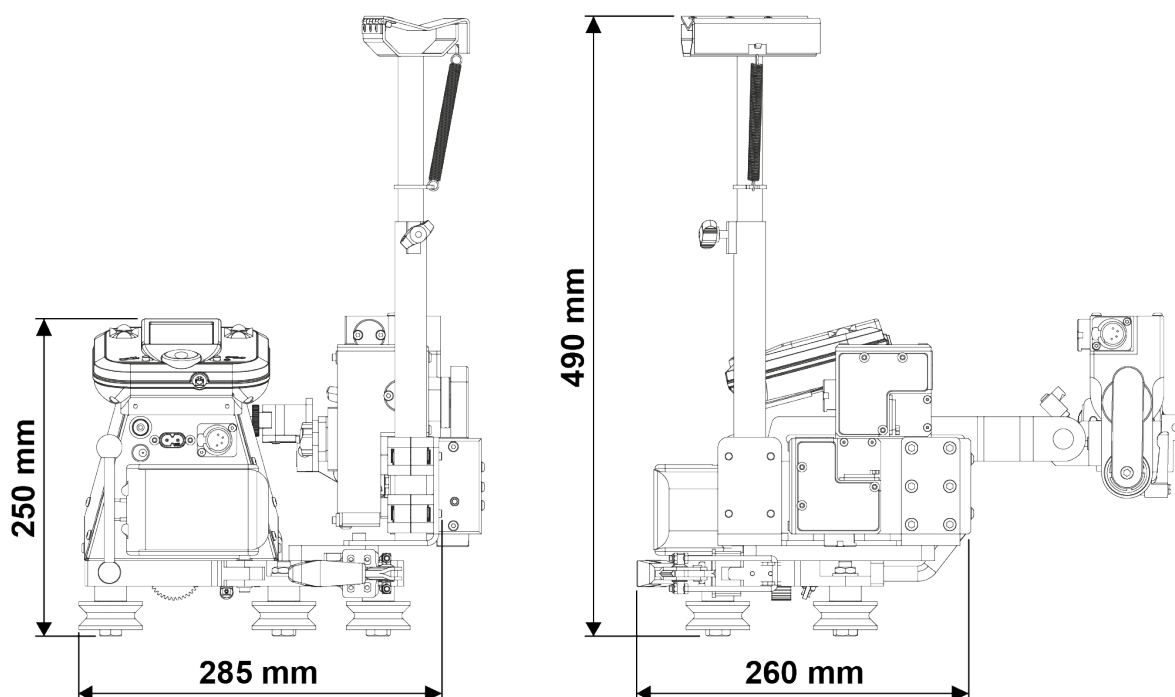
CONFIGURATIONS

RAILMAG® 60 EVO



DESIGNATION		PARTNUMBER WITH BATTERY CHARGER	PARTNUMBER WITHOUT BATTERY CHARGER
1	Simple, brushless motorization, end position	-	SV 904 0 00 00 0
2	Equipped ; Motorised Y/Z axes ; motorization brushless ; SERVIBOT RC HMI ; end position ; ; beam support mast	SV 904 R EE 11 A	SV 904 R EE 00 A

DRAWINGS



RAILMAG 60® EVO

TECHNICAL CHARACTERISTICS

	RAILMAG® 60 EVO	SERVIBOT RC HMI
Drive	Clutch pinion	
Travel speed range	1-120 cm/min (full battery charge)	
Power supply	Li-Ion - 18 V - 5Ah	Li-Ion
Battery autonomy	10 hours*	8 heures
Torch holder	Universal quick release	
Guidance	F lexible rail or rigid rail	
Dimensions (L x W x H)	285 x 260 x 250 mm	
Weight (with battery)	10.5 kg*	400 g
Automatic start during welding	Arc detection (without cable) or torch trigger connection	

*According confiuration n°2

COMPATIBLE KITS

MIG/MAG WELDING



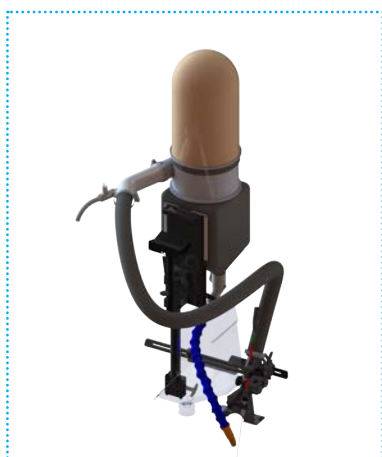
Réf : SV 00233 0000

MIG/MAG ANGULAR WELDING



Réf : SV 00251 0000

SAW WELDING



Réf : SV 96100 0003

PLASMA CUTTING



Réf : SV 00246 2000 *

*with Duramax mini-machine torch, 180° angle, for PMX 105 Hypertherm

COMPATIBLE OPTIONS

Name	Part number
Weaving option	SOFT 0001
Cycle programming option	SOFT 0002
Recipe saving option	SOFT 0003
Assisted automatic guidance option	SOFT 0005
Advanced oscillation option	SOFT 0006
Learning option	SOFT 0007

SPECIFIC ACCESSORIES FOR GLUMAG®

Name	Image	Part number
Standard full crabbing arm (250 mm)		SV 00232 0000
Long full crabbing arm (400 mm)		SV 00238 0000
Extra-long full crabbing arm (750 mm)		SV 00239 0000
Kit horizontal position arm complete x2		SV 00066 1100
Flexible horizontal position guide rail 1500 mm		SV 96100 0008
Standard 75mm wheels		SV 00001 1100

Wheels Ø 100mm		SV 00002 1101
Integration kit for Ø 100mm wheels (2 chocks ; 4 wheels ; 4 spacer)		SV 00370 0000
Knurled aluminum wheels (preheating and cutting) Ø 75mm		SV 00003 0001
Standard wheel protection		SV 00117 0001
Wheel protection Ø 100mm		SV 00241 0000
Beam support for handle		SV 00242 0000
Beam support for handle and interface mast		SV 00300 0000

If the GLUMAG® EVO is equipped with Ø100mm wheels, the carriage only works in PA position. (inactive magnetization).

SPECIFIC ACCESSORIES FOR THE TRACKMAG®

Name	Image	Part number
Beam support mast		SV 00097 1100
Full tubular handle		SV 00243 0000
Standard magnetic rail (1500 mm)		SV 96100 0001
Standard half-length magnetic flexible rail (750 mm)		SV 96100 0003
High temperature magnetic flexible rail (1500 mm)		SV 96100 0002
Standard half-length magnetic flexible rail (750 mm)		SV 96100 0004

Flexible rail with switchable magnets (1500 mm)		SV 96100 0009
Pneumatic flexible rail (1500 mm)		SV 96100 0005
Stiffened rail Standard magnetic (1500 mm)		SV 96100 0006
Rail end stop sensors (factory setting)		SV 00244 0000
Rail end stop		SV 00245 0000
Additional magnetic end of rail		SV 00226 0000
Additional high temperature magnetic end of rail		SV 00228 0000

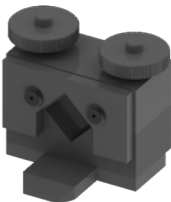
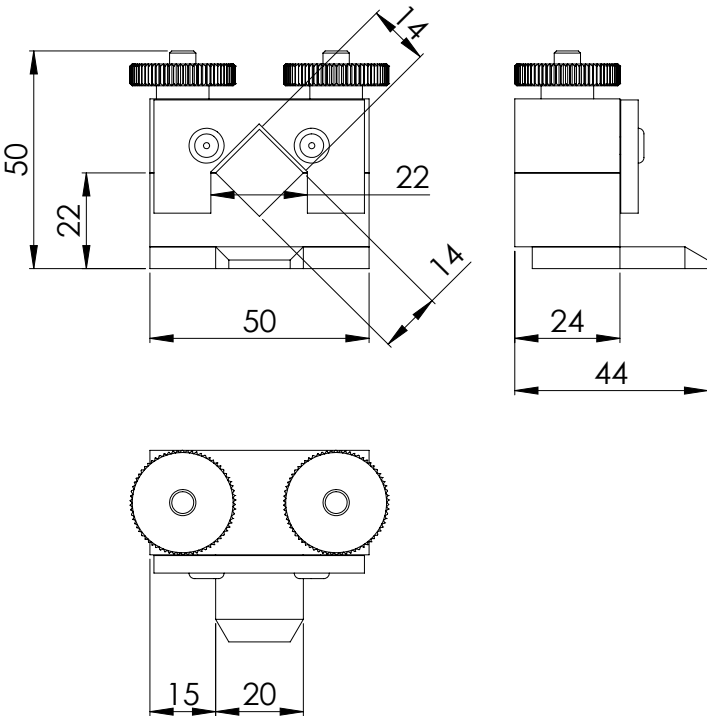

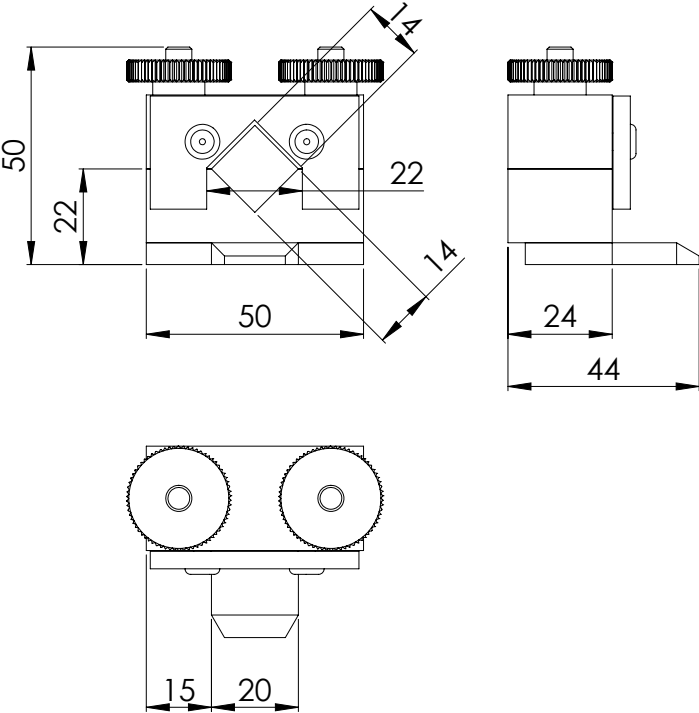
SPECIFIC ACCESSORIES FOR THE RAILMAG® 60


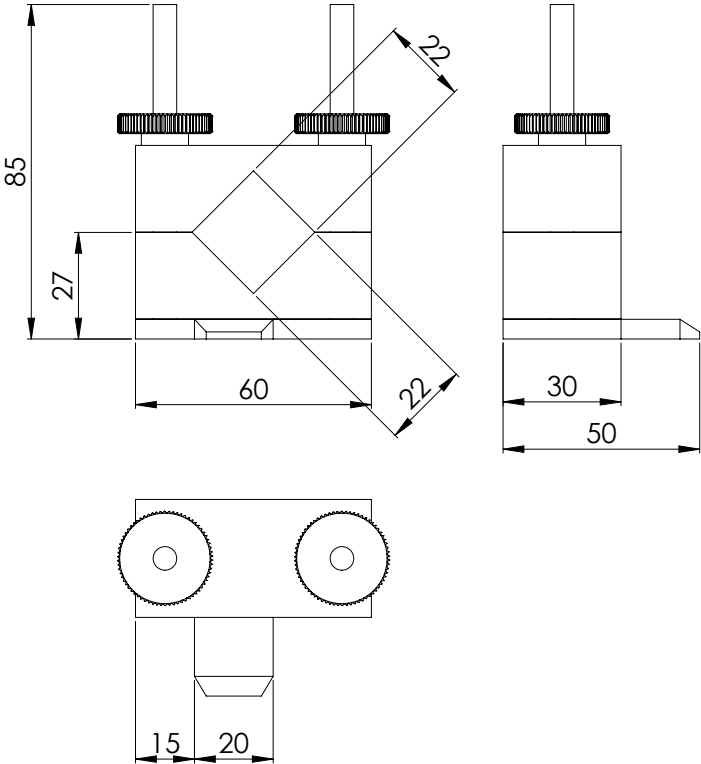
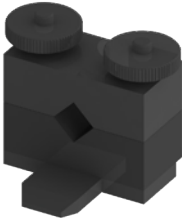
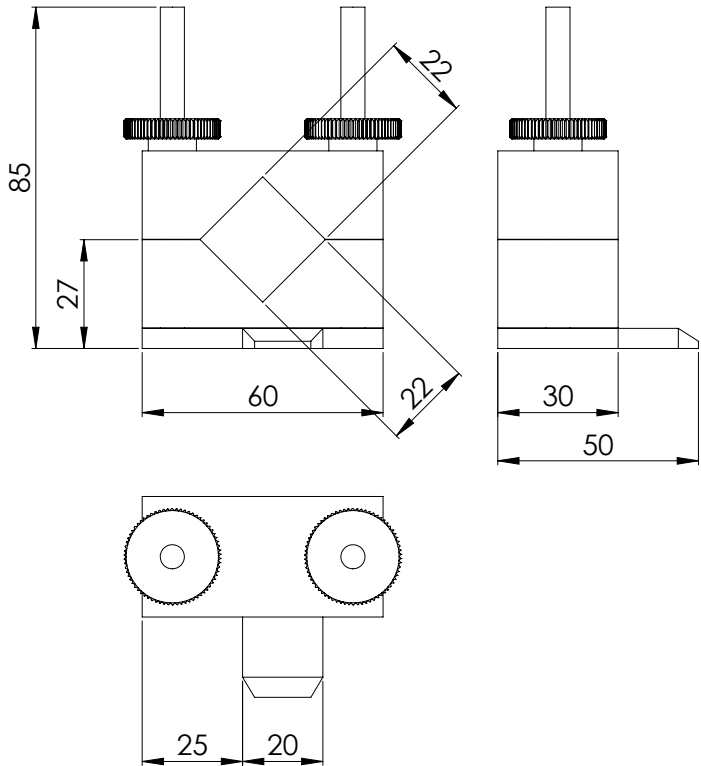
Name	Image	Part number
S witchable magnet support		On demand
Electric suction cup holder		On demand
Rail interface / support		SUPP0134
Rigid rail with rack and pinion Lenght on request (< 1m)		SV 000476 0000
Rigid rail with rack and pinion Lenght on request (< 2m)		SV 00475 0000
Rigid rail with rack and pinion Lenght on request (< 3m)		SV 00471 0000

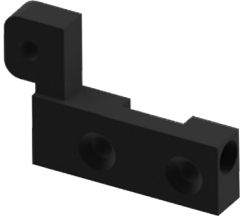
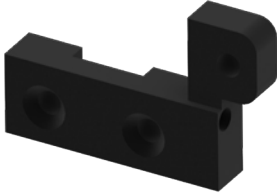
UNIVERSAL ACCESSORIES FOR THE SERVIBOT RANGE

POWER SUPPLY		
External power supply		SV 96000 0001
Cable for external power supply		On demand
MAKITA battery charger 18V single		ART 05680
MAKITA battery charger 18V dual		ART 05681
MAKITA battery 18V 5Ah		ART 05679
Compatible battery 18V 5Ah		ART 13848

POWER SUPPLY		
Compatible battery 18V 9Ah		ART 13849
12V charger remote control		ART 05694
XLR flashlight		SV 00258 0000
Anti-fall counterbalance (Capacity of 10-14 Kg)		ART 14598


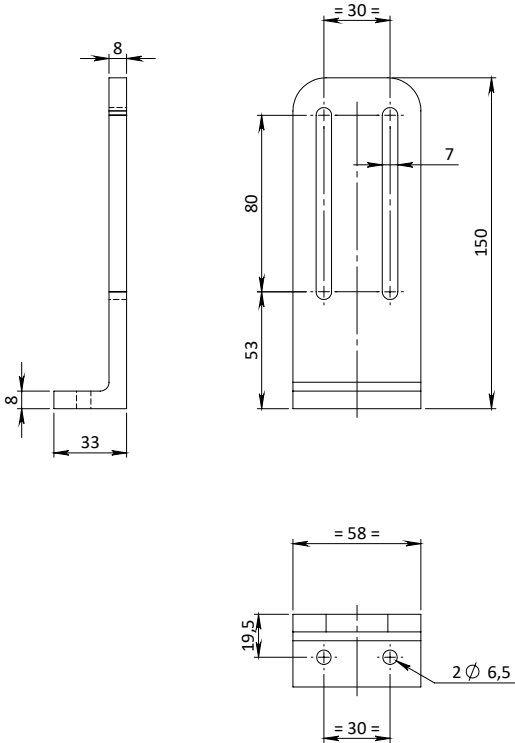
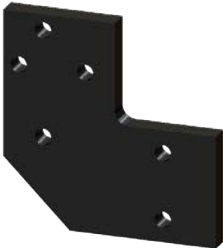
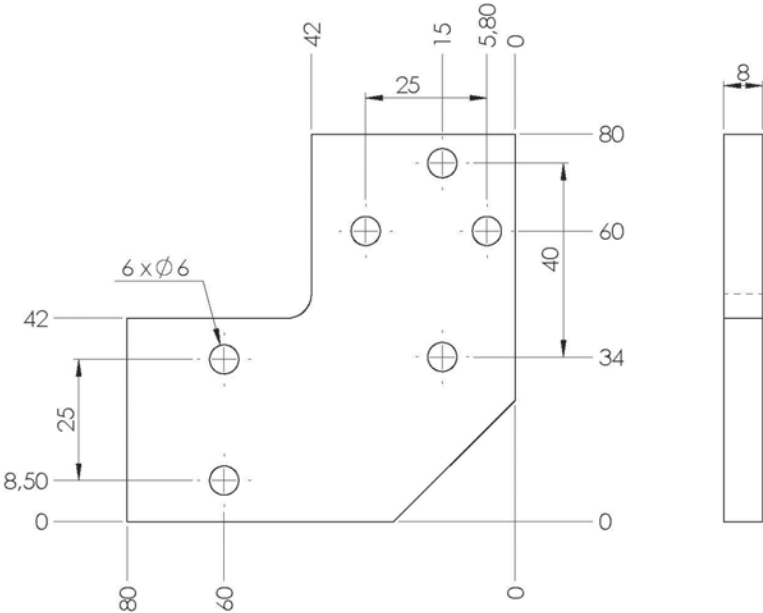
TORCH HOLDER	
Universal torch support	SV 00005 1100
	
High temperature torch support (max 250°)	SV 00248 0000
	


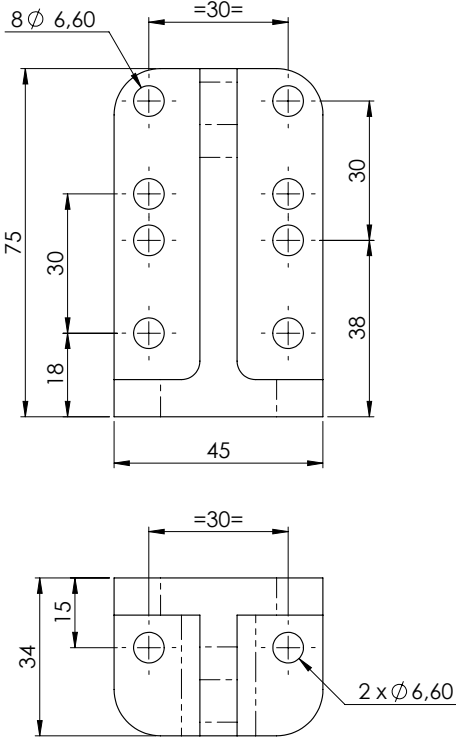

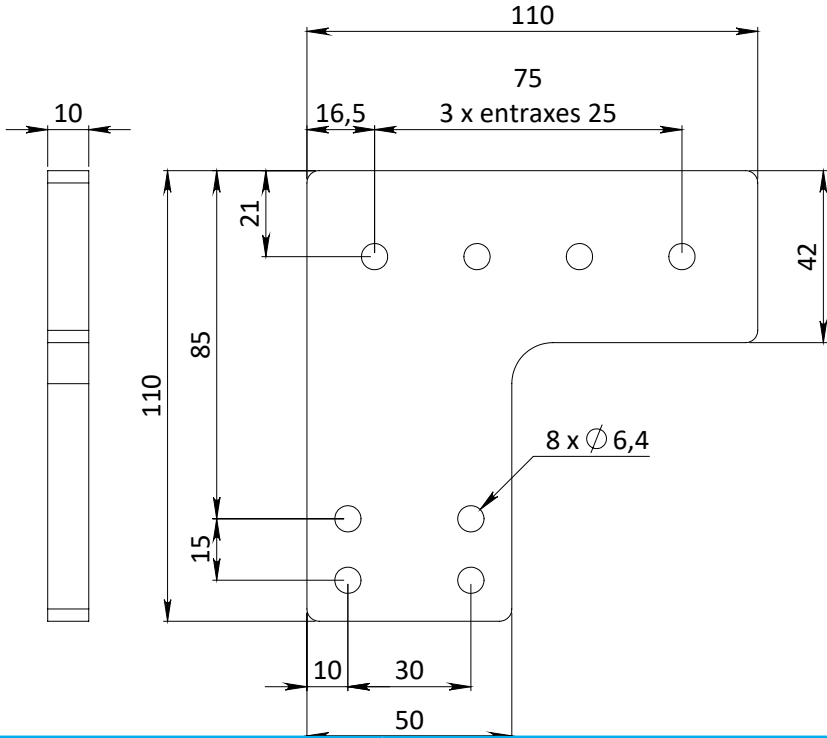
TORCH HOLDER	
Vacuum torch support	SV 00045 1100
	
Innershield® torch support	SV 00249 0000
	

INTERMEDIATE SUPPORTS		
Intermediate support without sensor		SV 00004 0112
Intermediate support without symmetrical sensor		SV 00004 0113

ARC SENSOR		
Intermediate support with standard arc sensor (400 mm)		SV 00004 0114
Intermediate support with long standard arc sensor (650 mm)		SV 00004 0115
Intermediate support with symmetrical arc sensor (400 mm)		SV 00004 0116
Intermediate support with long symmetrical arc sensor (650 mm)		SV 00004 0117
Arc sensor extension (400 mm)		SV 00247 0000
Trigger cable (400 mm)		ART 04932
Manual torch BINZEL MB501D 4m (Equipped with a trigger cable)		TORC 0293

Right torch BINZEL AUT 501D 4m (Equipped with a trigger cable)		TORC0311
Manual torch KEMPPI GX405 6m (Equipped with a trigger cable)		TORC0312

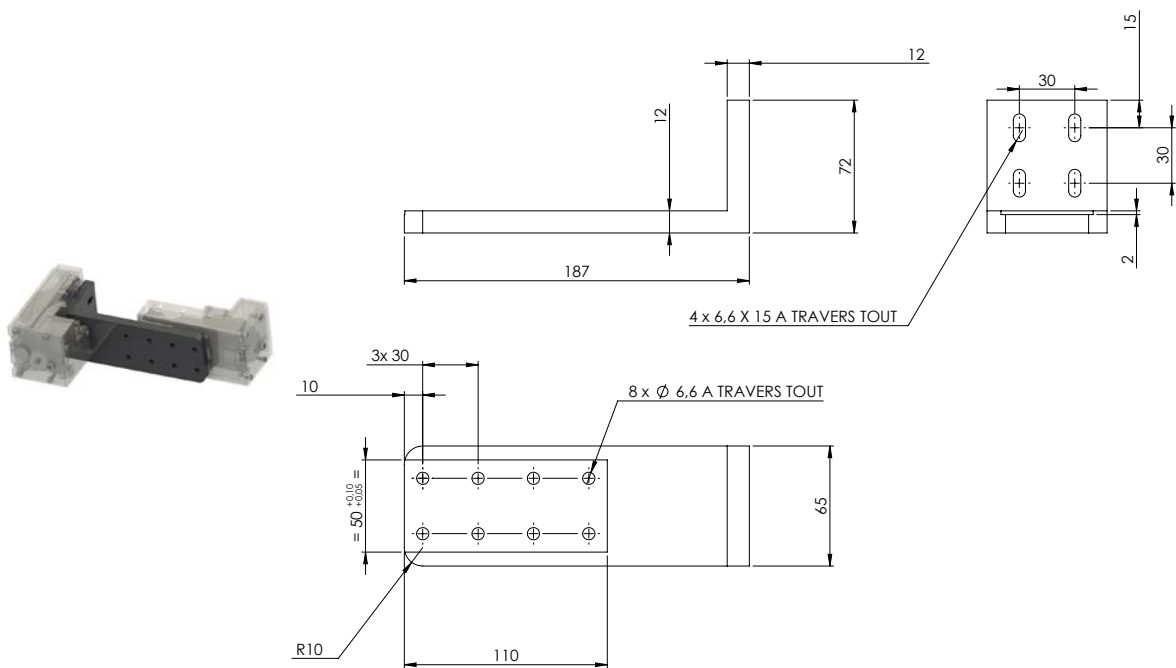
ASSEMBLY INTERFACE	
Frame connecting bracket - manual Y axis	SV 00188 0001
<div></div> <div></div>	
Connection plate - Manual Y axis - Manual Z axis	SV 00036 0001
<div></div> <div></div>	

ASSEMBLY INTERFACE	
Chassis connecting bracket - motorised Y axis	SV 00129 0001
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Connection plate - Motorised Y axis - Manual Z axis	SV 00189 0001
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ASSEMBLY INTERFACE

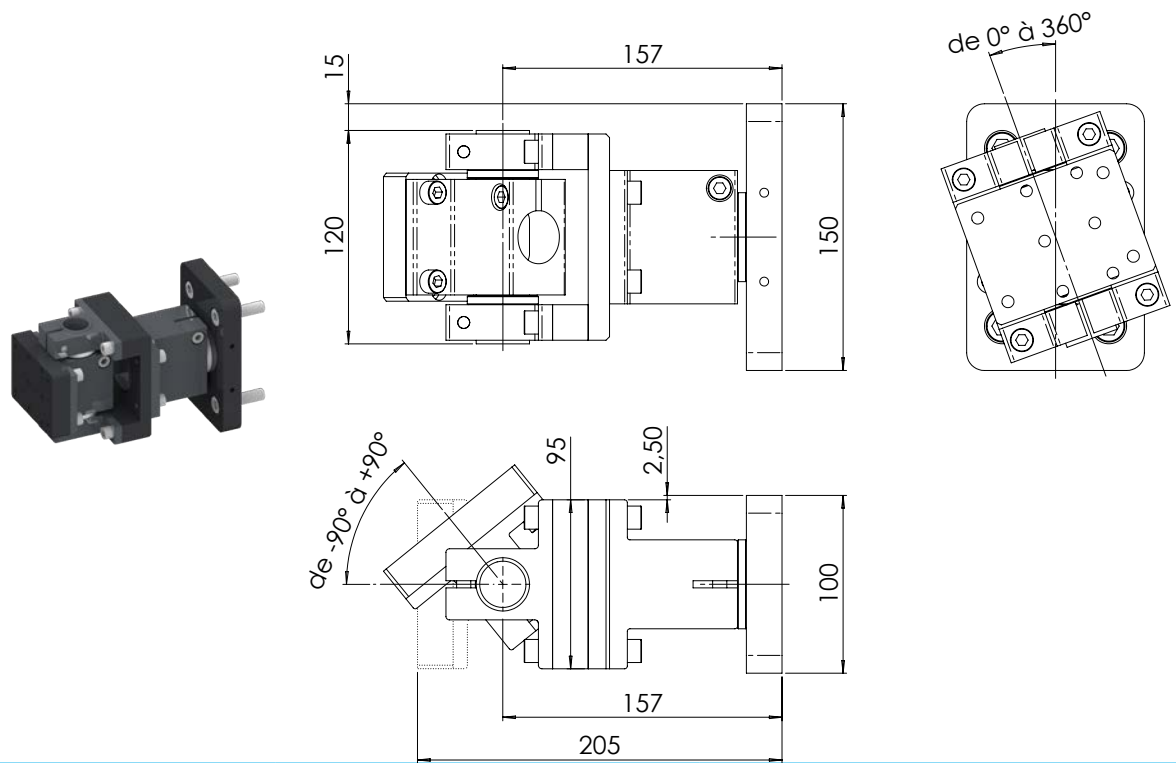
Connecting bracket - Motorised axis - Motorised axis

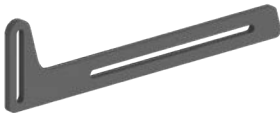
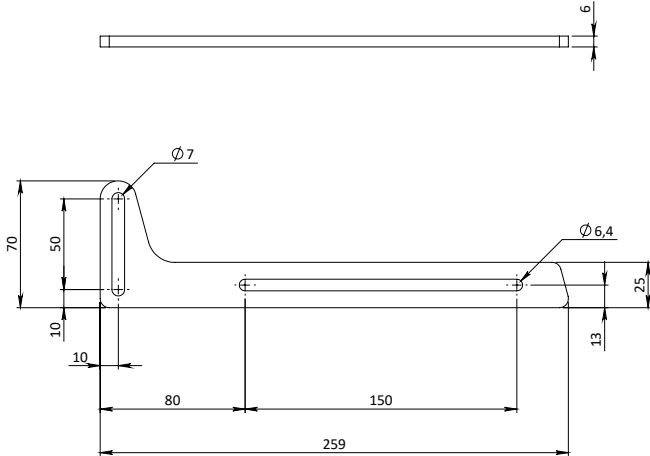
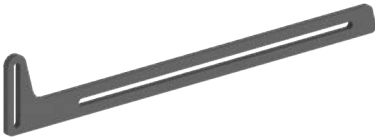
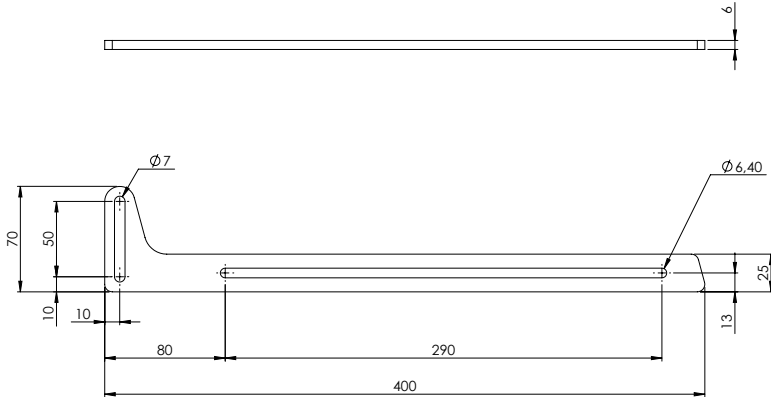

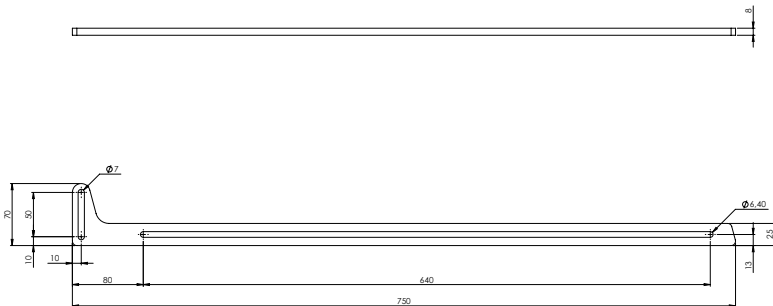
SV 00252 0000


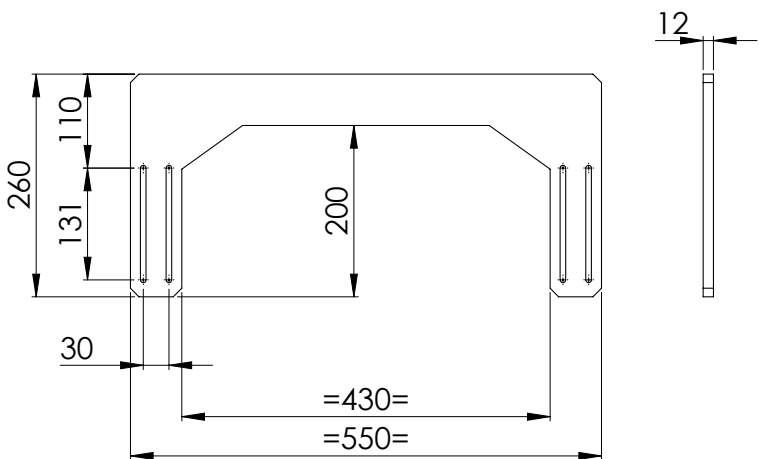

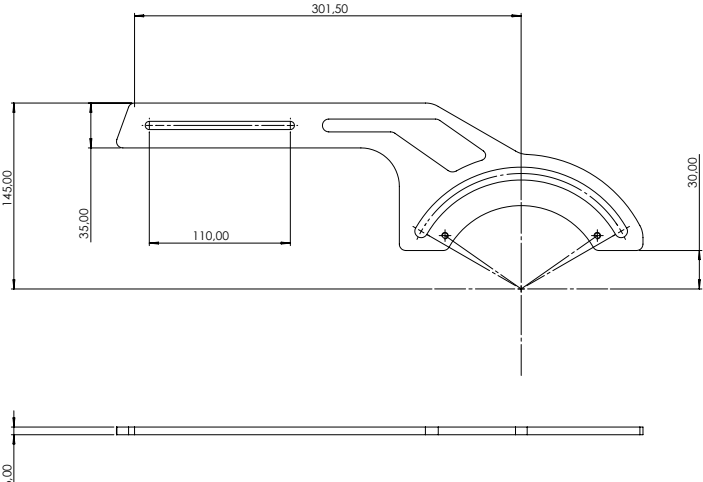


Articulated interface for column and boom

SV 00253 0000



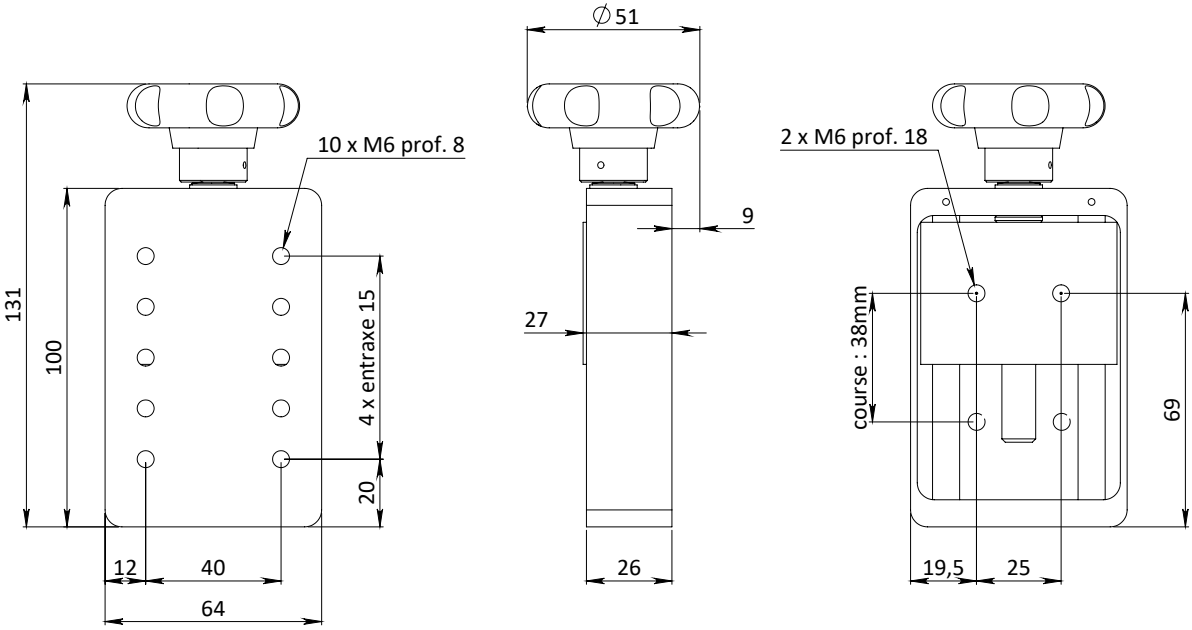



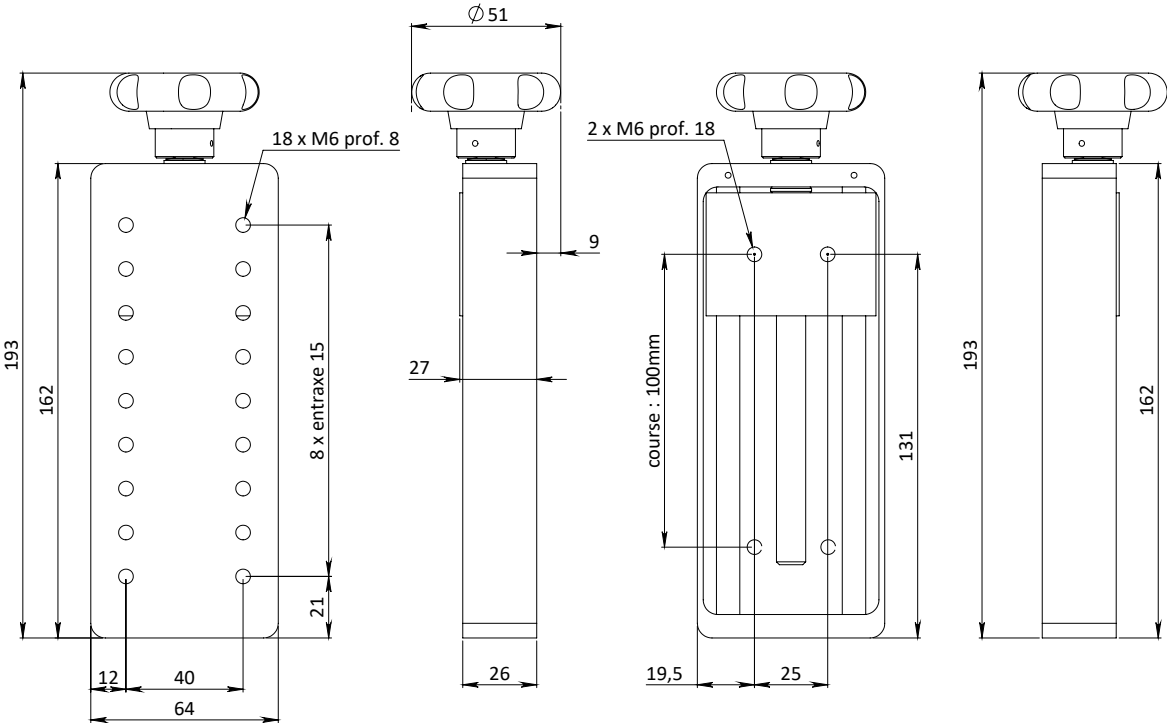
TORCH SUPPORT ARM	
Standard 250mm arm	SV 00033 0001
	
Long 400mm arm	SV 00043 0001
	
Extra long 750mm arm	SV 00250 0000
	

TORCH SUPPORT ARM	
Dual torch arm	SV 00095 0001
	
Angular adjustment arm	SV 00294 0000
	




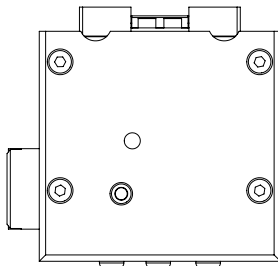
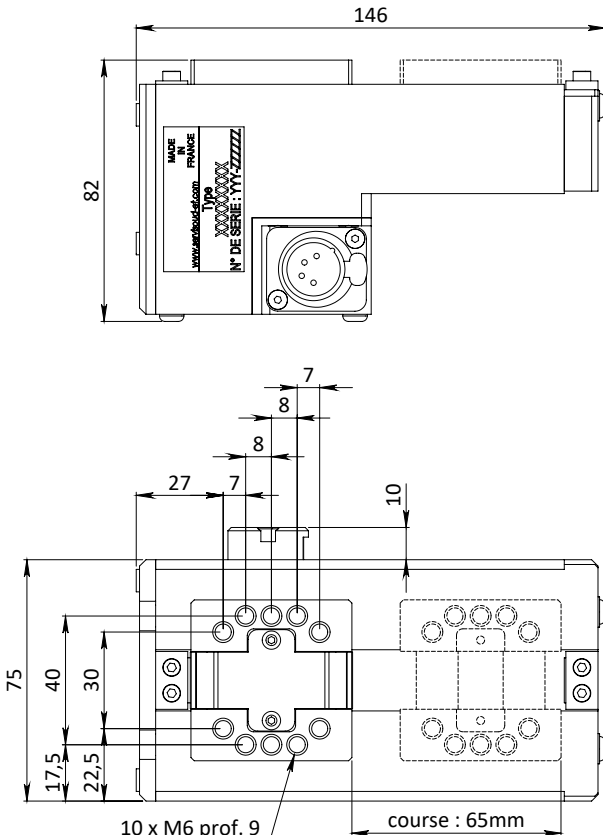
EVO
RANGE

HMI		
Simple interface		SV 95601 1000
SERVIBOT RC HMI		SV 95701 1000
Screen protection for simple HMI interface		ART 14179
Screen protection for SERVIBOT RC HMI		ART 12509
SERVIBOT RC HMI Protective shell (delivered with necklace)		SV 00440 0000




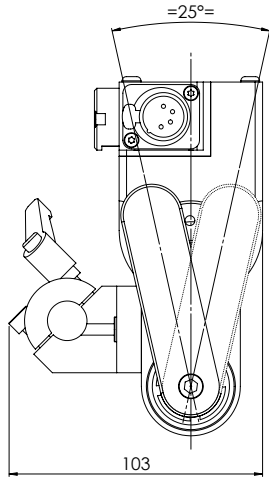
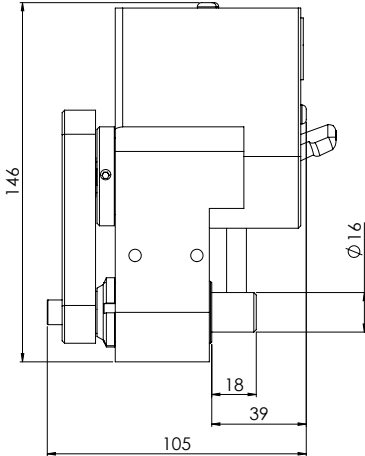
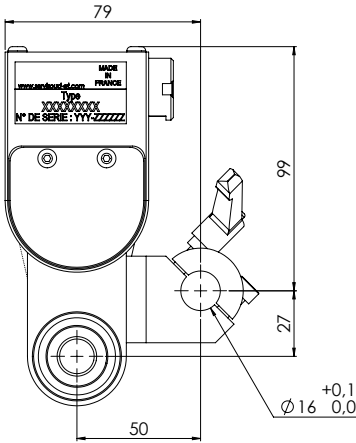
MANUAL AXIS		
One-piece double slider		SV 00190 1100
Manual slide standard 38 mm stroke		SV 00191 1100
		

MANUAL AXIS		
Manual slide 100 mm stroke		SV 00234 0000
		

EVO
RANGE

MOTORISED AXES			EVO RANGE
Linear 65 mm axis 250mm cable		SV 95800 1000	
Linear 65 mm axis without cable		SV 95800 2000	
Cable for motorised axis		250 mm: ART 05406	
		400 mm: ART 05407	
		600 mm: ART 14096	
		750 mm: ART 14097	
<div></div>			

EVO
RANGE

MOTORISED AXES		
Angular axis 400 mm cable 25° stroke		SV 95900 1000
Complete angular axis 25° stroke 400 mm cable		SV 95900 2000
Angular axis 25° stroke without cable		SV 95900 3000
<div></div>		

TRANSPORT BOX

Name	Picture	Part number
Worksite box with wheels		ART 14312
GLUMAG® box with wheels		ART 14311
TRACKMAG® box or accessories		ART 05870
Wooden box		PACK0027
Rail protective bag 1.50m (maximum 4 rails)		ART13841
Wooden box for rail (with hinges and cuffs) 156 x 25 x 21 cm		ART 15991

SPECIFIC RANGE

SPECIFIC BASE

Standard bases do not answer to every applications. SERVISOUD can conceive and fabricate specific movement modules which will be associated with : the steering, positioning axis and standard accessories from SERVIBOT range.

Those specific base are directly adapted to constraints and format of parts to be weld.

Some of the bases already developped can be rapidly adapted to new similar application cases by realization of new fixation way and positioning arms.

Here are the specific bases currently developped:

ROTOMAG

A welding rotative base. Pipe cutting on plate or flange. The Rotomag can also be used to put a small piece in rotation whime the torch remains fixed.



T-MAG



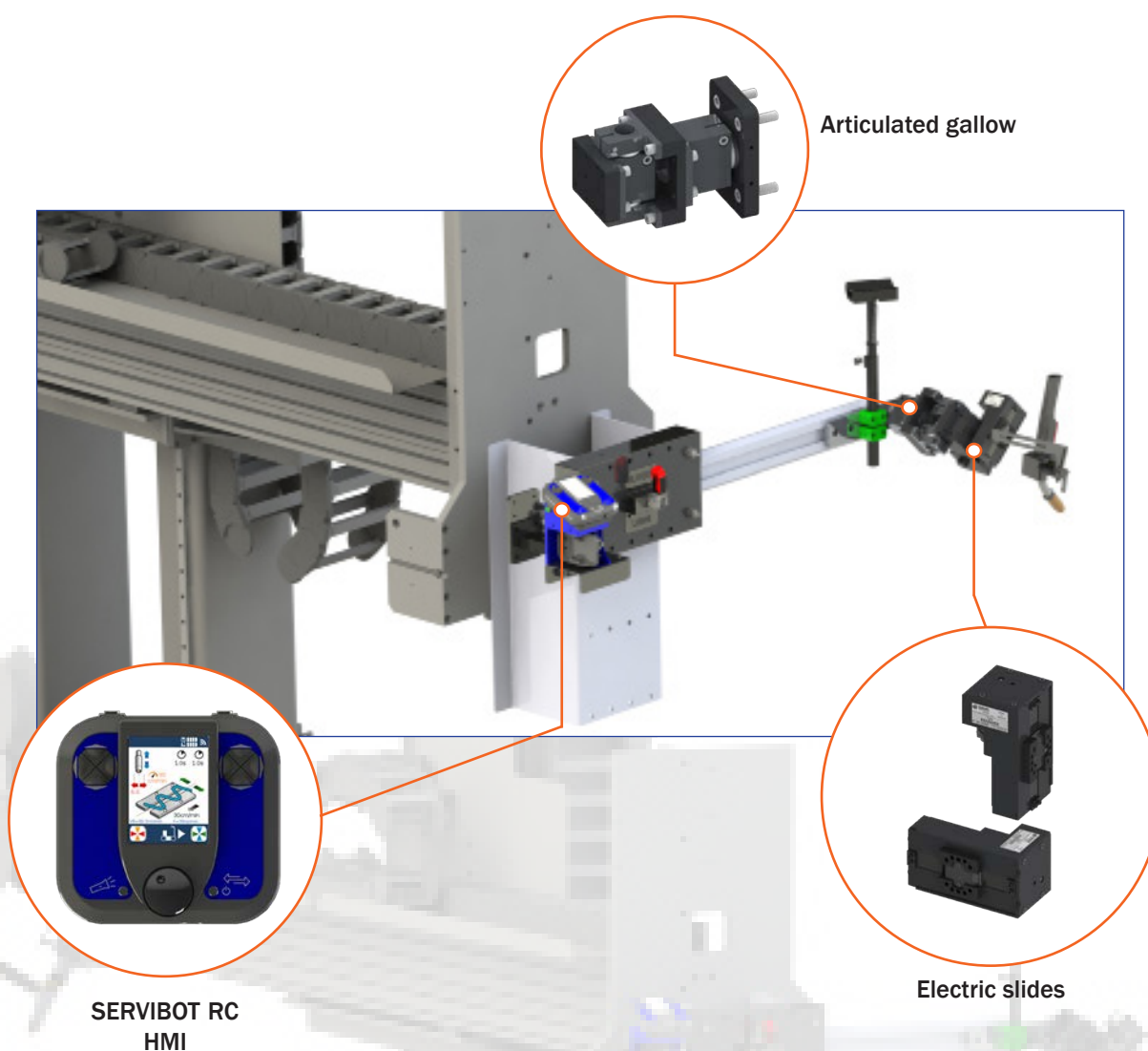
Welding carriage for T joint. Developped for naval panels, those systems allow a quick vertical withdrawal of the torch arm for the passage of the stiffeners or rails perpendicular to the T to be welded.

The tracking is mechanical on a roller supported by gravity.

CONTROL OF AN EXTERNAL AXIS AS A MOVEMENT AXIS

It's possible to configure a system without a standard base. The feed motion is realized by an external axis, that can be controlled by the central unit and the HMI SERVIBOT RC, via on/off, analog or fieldbus outputs. This configuration requires a specific study to interface the systems.

It's possible to configured a system without a standard base. The forward movement is realised by an external axis, which can be piloted by central unit and the SERVIBOT RC HMI.



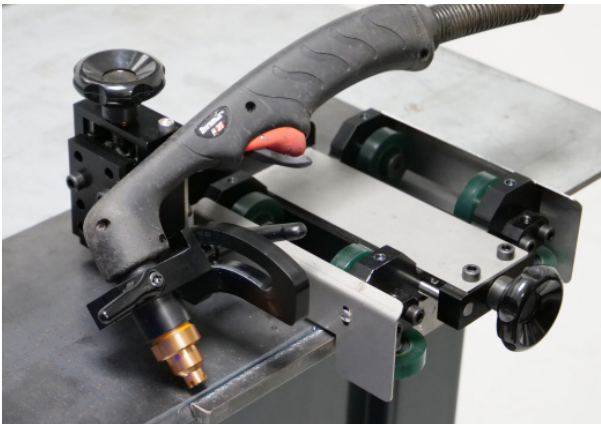
A word from the expert:

"The motorized axis control allows to correct the trajectory of the torch and to oscillate according to predefined paramters".

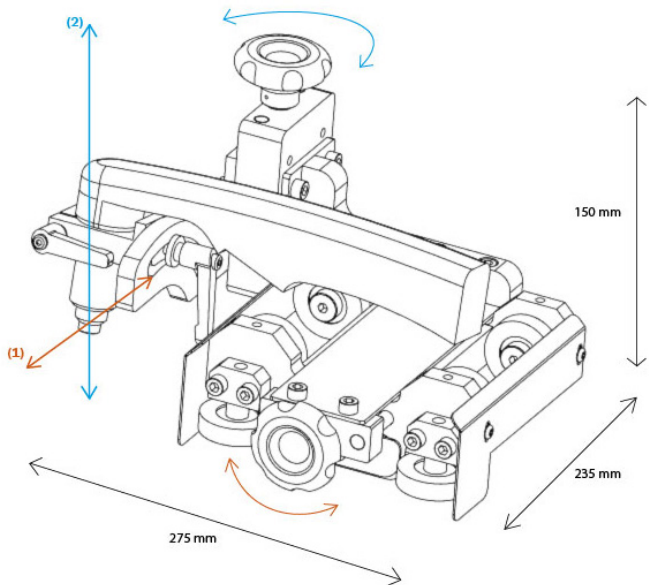
MANUAL PLASMA BEVELER

The manual plasma beveller has developed for cutting bevel edges.

The system is composed of guide rollers for the edge of the workpiece. The trolley is held in position by a permanent magnet system. A manual plasma cutting torch is fixed on a swivelling support indexed at an angle. Two lateral and horizontal slides allow to adjust its position.



	MANUAL PLASMA BEVELER
Dimensions	275 x 235 x 150 mm
Weight	3 kg
Angle ajustment	0 - 45°
Type of bevel	Bevel in V*, X
Lateral adjustment (1)	25 mm
Torch height adjustment (2)	38 mm
Partnumber	SV96500 1100



TYPE OF ROLLERS	PARTNUMBER
Rubber rollers (ø40 mm)	ART 14377
Bronze rollers (ø40 mm)	SV 00319 0000



HISTORIC RANGE

GLUMAG®

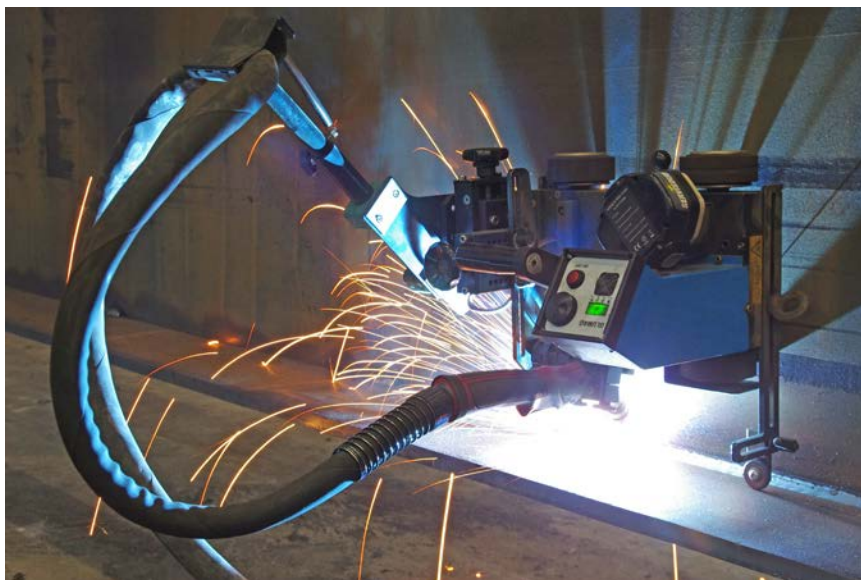


Magnetic welding carriage - all positions

TECHNICAL CHARACTERISTICS

Version	GLUMAG® V 1.4	GLUMAG® V 5 PRO
Speed range	10-140 cm/min	
Drive	4 drive wheels	
Battery powered	14V	
Battery life	6 hours	
Magnetic attraction force	25 kg	
Torch holder	Universal with fast attachment	
Guidance	Crabbing support rollers	
Dimensions	280 x 300 x 26 mm	
Weight	12 kg	
Automatic carriage start	Arc detection	Detection arc & torch trigger connection
Cycle	Continuous welding	Continuous & intermittent welding
Reference (with charger + 1 battery)	SV 901 002 11A	SV 901 003 11A

EXAMPLES OF APPLICATIONS



Welding with GLUMAG®



GLUMAG® - Welding for naval application

MAGLIGHT® ORIGINAL



Magnetic autonomous welding mini-carriage

TECHNICAL CHARACTERISTICS

Version	MAGLIGHT® V 1.1
Speed range	15-120 cm/min
Drive	4 drive wheels
Battery powered	9 V rechargeable in 30min
Battery autonomy	5 hours continuously
Magnetic attraction force	14 kg
Torch holder	Universal with fast attachment
Guidance	Crabbing support rollers
Dimensions	260 x 230 x 240 mm
Weight	5 kg
Autonomic carriage start	Arc detection (without cable)
Cycle	Continuous welding
Part number	SV 902 001 11A

EXAMPLES OF APPLICATIONS



▲ Inclined plate welding



▲ Arc protection and smoke extraction hood



▲ Carriage in ledge position



FLATMAG® 2 ORIGINAL

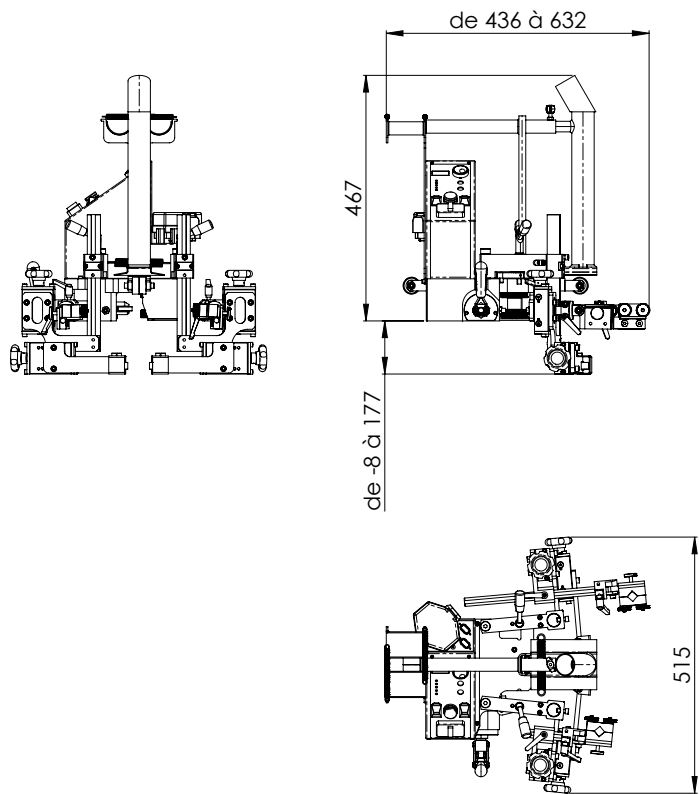


2 heads welding carriage simultaneous welding of opposing flat angles

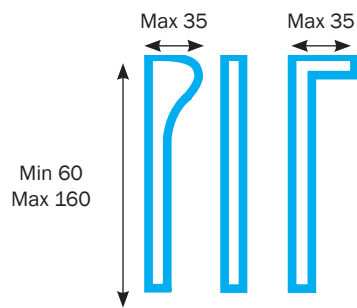
TECHNICAL CHARACTERISTICS

Version	FLATMAG® C60-160	FLATMAG® C120-C320
Speed range	15-180 cm/min	
Drive	Knurled roller	
Battery powered	14 V	
Battery autonomy	6 hours	
Seam tracking	Torches mounted on mechanical seam tracking	
Time counter	0-999 hours	
Torch holder	Universal with fast attachment	
Guidance	By pressure roller on weld stiffener	
Dimensions	500 x 500 x 500 mm	500 x 500 x 600 mm
Weight	20 kg	
Automatic carriage start	Torch trigger connection via supplied connection	
Cycle / programming	Feed speed cm/min Timer for welding start and stop Welding length Automatic transition to fast speed between 2 points	
Part number (with charger & 1 battery)	SV 903 001 11A	SV 903 002 11A

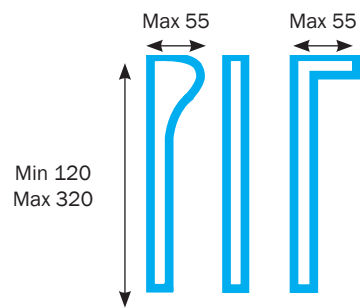
DRAWINGS



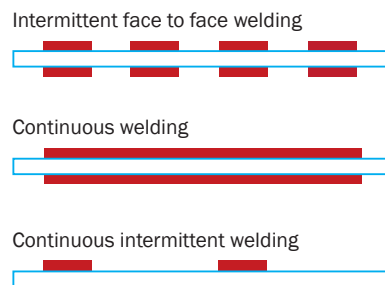
OPTIONS AND ACCESSORIES



▲ C60-C160 Version



Holland profile
▲ C120-C320 Version



▲ Various possible cycles



▲ Smoke extraction system

TERMS OF SALES

1/ General description

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

1.2. The contractual relations between EUROPE TECHNOLOGIES and its Customers (presumed hereinafter to be resellers and/or professionals) are exclusively managed in the following descending order of precedence:

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

by the commercial and technical documents issued by the Customer provided that they are accepted exclusively and in writing by EUROPE TECHNOLOGIES.

by these general conditions concerning supplies.

EUROPE TECHNOLOGIES proposals or estimates are valid for one (1) month from the date of issue. If this deadline is exceeded, the specific commercial conditions of EUROPE TECHNOLOGIES set out in the EUROPE TECHNOLOGIES proposal or estimate must be confirmed in writing by EUROPE TECHNOLOGIES, in particular in terms of deadlines or pricing.

2/ Price

2.1. Unless otherwise specified, prices are understood to be in Euro 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 defined and integrate current economic conditions on the day of the proposal. EUROPE TECHNOLOGIES reserves the right to modify these without notice, if these conditions are subject to variations. 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 without limitation, sales, use, excise, value added, withholding, and similar taxes, based on

payments to be made to EUROPE TECHNOLOGIES in any jurisdiction when such taxes apply, but 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 Contract, they shall pay such additional amounts to EUROPE TECHNOLOGIES, so that EUROPE TECHNOLOGIES receives an amount equivalent to that which would have been received if such withholding, deduction or payment had not proved necessary. The selling prices of systems ordered on the basis of estimates are considered to be subject to revision by EUROPE TECHNOLOGIES at least in compliance with the conditions applicable by its own suppliers or subcontractors, unless otherwise stated.

2.3. For additional supplies, the price and the new deadlines shall be discussed specifically between EUROPE TECHNOLOGIES and the Customer. The terms and conditions concerning any additional supplies may in no case 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 as well as data and all information or data recorded in writing or by any other means or method) communicated or obtained by the Customer from EUROPE TECHNOLOGIES without prejudice to the general definition above. The term Confidential Information includes, without limitation, any information that can be verified by inspection or analysis of samples, and any information relating to operations, processes, plans, intentions, product information, knowledge, design rights, intellectual property, trade secrets, software, market opportunities, Customers or business.

3.2. The Customer agrees to ensure 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 stated, EUROPE TECHNOLOGIES shall remain the exclusive owner of all information, all concepts (ideas or strategies, methodologies, etc.), all specifications, all documents (plans, diagrams, calculation notes, test

reports, all objects (models, samples, specimens, etc.), including copyrights, expertise patents, implemented for the design, study, research and development, technical assistance and any other service. The Customer shall automatically return to EUROPE TECHNOLOGIES all documents, objects, etc. defined in the paragraph above, at the end of this Contract.

3.4. Unless otherwise indicated, EUROPE TECHNOLOGIES shall remain the exclusive owner of the results obtained within the framework of the design, study, research and development, as well as all other work carried out within the framework of this Contract. As a general rule, 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 requirements of the Customer, a transfer from the Customer to EUROPE TECHNOLOGIES of documents or expertise, (ii) the modification by the Customer of products after 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 this third party, EUROPE TECHNOLOGIES cannot be held responsible, and the Customer shall protect at their own expense EUROPE TECHNOLOGIES from any resulting lawsuits or proceedings. The Customer shall promptly notify EUROPE TECHNOLOGIES of any lawsuit or proceedings based on the assertion that the EUROPE TECHNOLOGIES item(s) constitute an infringement of the intellectual property rights of a third party. Should a EUROPE TECHNOLOGIES product (hardware and/or embedded software) be ruled by a final decision of a court having jurisdiction or a settlement approved in writing by EUROPE TECHNOLOGIES to constitute a violation of the rights of a third party 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 by a work protected by copyright, EUROPE TECHNOLOGIES shall decide their own options, excluding any other compensation, to retain the right to continue to use this product (or part of it); or to modify this product to ensure it conforms; or to withdraw this product and refund the purchased price. This paragraph describes the entire scope of liability of EUROPE TECHNOLOGIES and the

Customer's sole remedy in relation to any claim concerning a violation of intellectual property rights.

3.6. Unless otherwise specified, the study, research and development, technical assistance as well as 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 sufficient in the context of cooperation between EUROPE TECHNOLOGIES and the Customer, specifically via the exchange of information.

4/ Supply limits

4.1. Should products or services provided be incorporated as elements of a system, EUROPE TECHNOLOGIES shall not be considered as prime contractor for the complete project into which their supply is integrated as a subcontractor. In particular, EUROPE TECHNOLOGIES shall not be liable for the compatibility of their products with others for which they have not recognised compatibility. Any technical assistance service must be carried out by providing the personnel who will work under the technical liability of the Customer for the project and the prime contractor. The Customer shall be liable 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 stated, the shape, dimensions, weight and other characteristics and specifications of the functions of the product(s) or service(s) indicated in the catalogue, brochures, price lists, advertising, samples, etc. issued by EUROPE TECHNOLOGIES, are stated for information purposes only.

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

4.4. Unless otherwise stated, EUROPE TECHNOLOGIES shall not be liable for obtaining, on behalf of the Customer before delivery of the products or services, the licenses and/or authorisations required by the laws and regulations of the Customer country or country of origin, departure or destination, in particular in the event of control of the final

destination during re-export by the Customer. The Customer shall obtain all the required authorisations themselves, justifying if necessary and submitting to EUROPE TECHNOLOGIES any information on the intermediaries and successive users of these products or services and to communicate this information obligation to them. The delivery of products or services by EUROPE TECHNOLOGIES may be subject to the prior authorisation of the French administration relating to European regulations for the control of exports, transfers, brokerage and transit of dual-use goods (EC Regulation Council No. 428/2009). In the event of a refusal by the French administration, the contract or the order shall be terminated without compensation to the Customer or at the expense of the Customer.

4.5. Should the products, services or systems supplied consist of 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 - testing

5.1. Inspections and tests must be carried out, unless otherwise specified, 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 be not duly informed, the inspections and tests shall be considered valid after complete acceptance by both Parties.

5.3. Should the Customer request other inspections and tests and these are to be carried out at other sites, these inspections and tests shall be carried out at the Customer's expense and considered valid after complete acceptance by both parties.

6/ Deliveries - shipments - transfer of risk - claims

6.1. Delivery and transfer of risk are deemed to have been completed when the products and/or services are made available before unloading at the place indicated by EUROPE TECHNOLOGIES. Unless otherwise stated, this action of making the products and/or services available is considered to have been 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 their 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 is counted from the day of confirmation of the order by EUROPE TECHNOLOGIES, unless the completion of the order depends on the fulfilment of a prior condition, for example, partial payment. In this case, the delivery period begins when this condition is met.

6.4. Unless otherwise indicated, delivery times are provisional evaluations and all reasonable efforts must be made to respect them: delays in delivery compared to the expected time can in no way justify the cancellation of the order or incur penalties, unless otherwise stipulated in the Contract. Only special and timely agreements can stipulate penalties or compensations, which can in no case be no more than five percent (5%), excluding VAT, of the value of the products or services not delivered, and these shall definitively settle any Customer's complaint relating to this delay. In any event, compensation shall only be applied if the delay is due to EUROPE TECHNOLOGIES, if the Customer has duly notified EUROPE TECHNOLOGIES by registered letter, and if the delay has caused actual damage fully accepted by the two parties.

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

- The Customer has not provided the required information in time;
- The Customer has not complied 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 verifying applicable shipments, against shipper. For shipment by EUROPE TECHNOLOGIES, packaging and shipping shall be carried out at the lowest possible cost, unless otherwise expressly requested by the Customer, and in this 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, complaints relating to visible defects, configuration and quantities of products delivered or their non-compliance with the delivery documents must be formulated within eight (8) days after the date of delivery of the products and this, without prejudice to provisions concerning the carrier, otherwise these complaints 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 a cases, the Customer shall ship the returned product FOB to the address indicated by EUROPE TECHNOLOGIES. EUROPE TECHNOLOGIES cannot be held responsible for the loss or damage of returned products.

7/ Maintenance and commissioning

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

- 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 the project management services, the technical inspections, the work on the premises, and they shall be exclusively responsible for these services. Preparatory work must be completed before the installers arrive. Should EUROPE TECHNOLOGIES accept, upon Customer request, the delivery of the equipment before the end of works, the Customer shall be exclusively responsible for all the risks and expenses concerning the damage or loss of the equipment and/or resulting from the removal operations to new sites or time extensions. Neither the instructions appearing in the technical

documents provided by EUROPE TECHNOLOGIES, nor its participation in site meetings, nor the signing of an official acceptance report for a site can confer to EUROPE TECHNOLOGIES any liability as site contractor.

Unless otherwise specified, the Customer shall be liable for the services indicated in article 7.1.

8/ Terms of payment

8.1. Unless otherwise stated, payment shall be made net without discount on the due date indicated on the invoice. If there is a reduced payment, only the VAT corresponding to the price actually paid shall entitle the Customer to the reduction.

8.2. Should EUROPE TECHNOLOGIES accept payment instalments, the non-payment by a Customer of a single instalment shall entitle EUROPE TECHNOLOGIES to demand immediate payment of the remainder of the price of the supply concerned 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, transfer, mortgage and contribution to the Customer's goodwill.

8.3. According to 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%), and to a minimum of forty (€40) euros.

8.4. Moreover, should the recovery of debts payable via court proceedings be necessary, EUROPE TECHNOLOGIES shall have the right to claim reimbursement of their legal costs and compensation of at least ten percent (10%) of the debts payable.

8.5. The Customer shall never 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, and EUROPE TECHNOLOGIES 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 becomes insolvent or go into receivership, EUROPE TECHNOLOGIES retains the right to claim all debts still due from the sub-purchasers and the Customer shall inform 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 have the right 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 their rights. The Customer shall pay the costs of repair and/or overhaul of the returned supplies.

10/ Warranties

Subject to the specific conditions of the range of products 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 there be postponement of delivery for a reason beyond the control of EUROPE TECHNOLOGIES, the warranty period begins on the delivery date initially scheduled. Software products warrantees shall be limited to the correction of reproducible errors in order to allow the execution of the instructions contained in the defective program by the delivery of a corrected version. The warranty shall be limited, at the discretion of EUROPE TECHNOLOGIES, either to the repair or the replacement by equivalent elements of all the articles of the products affected by a latent defect pre-existing upon delivery. The EUROPE TECHNOLOGIES warranty shall only apply to defects appearing under the operating conditions provided for in the Contract and within the framework of correct use of the Products. This warranty shall not apply to replacements or repairs resulting 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 design stipulated or specified by the Customer;

- defects resulting from external factors such as faulty construction work, unsuitable floor coverings, EUROPE TECHNOLOGIES shall not be 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 responsible.

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 the warranty period of the products. Unless otherwise stated, used parts and spare parts do not benefit from the contractual warranty of this article. The Customer shall grant EUROPE TECHNOLOGIES the time they need 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 contract. 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 cannot be held responsible for any event beyond their control and in particular following a case of force majeure. Unless otherwise stated, EUROPE TECHNOLOGIES cannot be held responsible for the results, in particular the performance or the capacities of the product or service for a use not intended or not specified by EUROPE TECHNOLOGIES, and EUROPE TECHNOLOGIES does not give any implicit or express guarantee in this regard. to be used for possible negotiations. The contractual obligations of EUROPE TECHNOLOGIES shall arise only from agreements signed in accordance with the provisions contained in these General Conditions of Supply and specifically including Articles 1, 3 and 4. UNDER NO CIRCUMSTANCES SHALL EUROPE TECHNOLOGIES OR THEIR REPRESENTATIVES BE 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 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, OR FOR ANY CLAIM BY A THIRD PARTY, EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN. From the date of equipment delivery, the Customer shall insure this equipment against all risks and specifically for damage and loss. The Customer shall also contract appropriate insurance covering all damage likely to incur their professional civil liability as designer and/or project manager.

12/ Assignment and Subcontracting

EUROPE TECHNOLOGIES may, without restriction, assign and/or subcontract all or part of their 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. The Customer must send a written notification to EUROPE TECHNOLOGIES by registered letter before any transfer and/or subcontracting of their rights and obligations resulting from an agreement for the supply of products and/or services with EUROPE TECHNOLOGIES and must protect EUROPE TECHNOLOGIES against any failure and/or claim by said assignee and/or subcontractor.

13/ Termination of the contract - order cancellation

Failure by the Customer to perform any of their obligations authorises EUROPE TECHNOLOGIES to automatically terminate, without legal formality, all or part of the Contract for supplies concluded with the Customer in the event that the Customer does not remedy the situation within eight (8) days following notification by registered letter from EUROPE TECHNOLOGIES; to recover the products already delivered; to claim compensation for the damages incurred; and to keep the amounts already paid to a minimum, 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 total or partial cancellation of the order unilaterally decided 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 contract (including non-contractual disputes or claims) shall be governed by and construed in accordance with French law. The United Nations Convention on Contracts for the International Sale of Goods and any legislation implementing such convention, if any, shall not apply to any order or sale. Any

disputes arising from the interpretation, execution or termination of the contractual obligations of this Contract which are not settled amicably must be submitted to the competent courts in the jurisdiction of the head office of EUROPE TECHNOLOGIES in France, regardless of the conditions of supply accepted and those of payment, and even in the event of invocation by one of the parties of the responsibility linked to the guarantee of origin, or even in case of multiple defendants.

Notes



INNOVATION FOR WELDERS

**WELDING - CUTTING CARRIAGE
CUSTOMIZED MACHINES - REFURBISHING
INDUSTRIAL WELDING SUPPLIES
EQUIPMENT RENTAL
CERAMIC SLATS
AUTOMATION EQUIPMENT
WELDING EQUIPMENT MAINTENANCE**



SERVISOUD

Europe Technologies group

SERVISOUD CARQUEFOU - Headquarters

Manufacturing unit for Special machines & Welding trolleys - R&D

2, rue de la Fonderie
44475 CARQUEFOU
Phone: +33 (0)2 51 70 04 94
contact@servisoud.com

SERVISOUD CAUDAN

SERVILOC equipment rental - Direct sales shop

ZI de Kerpont
10 Chemin de Locmaria Prantarff
56850 Caudan
Phone: +33 (0)2 97 37 63 47
contact@servisoud.com

SERVISOUD MONTOR-DE-BRETAGNE

SERVILOC equipment rental - Direct sales store - Repair - After-sales service

93 rue Anatole France
44550 Montoir-de-Bretagne
Phone: +33 (0)2 40 90 29 05
Reception: +33 (0)2 40 90 07 98
contact@servisoud.com

SERVISOUD CHOLET

Administrative site

Bureau 1.1, rue de la Gâtine
Parc des activités du tremplin - ZI du Cornier
49300 CHOLET
Phone: +33 (0)2 41 58 72 75
contact@servisoud.com

SERVISOUD LENCLOÎTRE

Manufacturing unit

27 rue de St Exupéry
86140 LENCLOÎTRE
Phone: +33 (0)5 49 19 42 22
contact@servisoud.com



www.servisoud-et.com