



Thank you very much for the trust you have shown by choosing this piece of equipment. It will give you trouble-free service if it is used and maintained as recommended.

Its design, component specifications and manufacturing are in accordance with applicable European directives.

Please refer to the CE declaration enclosed to identify the directives applicable to it.

The manufacturer shall not be liable for any combination of parts not recommended by it.

For your safety, please follow the non-limitative list of recommendations and obligations below, a large part of which are included in the Labour Code.

Please inform your supplier if you find any error in this instruction manual.

П

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PERSONAL NOTES

INFORMATION

This technical literature is intended for the following machines or products:

• WELDY-RAIL 2.0 PRO



This manual and the product with which it is associated refer to the applicable standards in force.



Please read this document carefully before you install, use or maintain the machine. Keep this document in a safe place for future reference. This document must follow the machine described if there is a change in ownership of the machine and accompany it up to demolition.



Display and pressure gauge:

Measurement instruments or displays of voltage, intensity, speed, accuracy etc. are to be considered as indicators, whether they are analogue or digital.



For operating instructions, adjustments, troubleshooting and spare parts, please refer to the special instructions for safe operating and maintenance.



The installation is an assembly of several products. Please read all the sections of the literature before starting to use the machine, as they contain information about residual risks and the ways to protect yourself from all its components.



In spite of all the measures applied, invisible residual risks may still remain. Residual risks can be reduced if the safety instructions are observed, the machine is used as recommended and general service instructions are followed.

WELDY-RAIL

MEANING OF SYMBOLS

C	Reading the manual/instructions is mandatory.		Indicates a hazard.
	Mandatory use of safety shoes.		Warning of an electricity risk or hazard.
	Mandatory use of hearing protection.	<u>A</u>	Warning of a risk or hazard due to an obstacle on the floor.
	Mandatory use of a safety helmet.		Warning of a risk or hazard of falling to a lower level.
	Mandatory use of safety gloves.		Warning of a risk or hazard due to suspended loads.
	Mandatory use of safety glasses.		Warning of a risk or hazard due to a hot surface.
	Mandatory use of a safety visor.		Warning of a risk or hazard due to moving mechanical parts.
	Mandatory use of safety clothing.		Warning of a risk or hazard due to a closing movement of mechanical parts of a machine.
	Mandatory cleaning of the working zone.		Warning of a risk or hazard due to laser radiation.
	Mandatory use of breathing protection.		Warning of a risk or hazard due to an obstacle at a height.
	Visual inspection required.		Warning of a risk or hazard due to the presence of a pointed part.
	Indicates a lubrication operation.		Wearers of pacemakers may not be admitted in the designated area.
×	Requires maintenance action.	Li-ion	The equipment has a lithium ion battery that has special requirements in the areas of transport, storage and recycling (refer to battery literature)
i	The equipment is not ATEX certified		

V

VI

The information below should be provided in all correspondence.



B - SAFETY INSTRUCTIONS

1 - Conditions for use

Thank you for purchasing this LINCOLN ELECTRIC equipment, which will give you all satisfaction.

This equipment is designed for fastening a MIG/MAG welding torch and moving it on plates in manual, semiautomatic or automatic mode.

These instructions must be provided to each user. Before each operation, the user must become familiar with the equipment and make sure that they have read and understood the information contained in the instructions. The use of the equipment entails knowledge of and compliance with the usual warning and safety observations relating to the applied process.



Refer to the standards and good practices associated with the processes used.

LINCOLN ELECTRIC reserves the right to modify the characteristics of its products at any time to apply the latest technological developments. That means that the information in this document is liable to change without notice.

2 - Users

The equipment may only be put into service, used or put out of service by authorised personnel.



CAUTION! All the service and maintenance personnel working with this equipment must have read and understood all the instructions in this manual.

The equipment has a control unit that is only to be used by a single operator at any given time. The manufacturer has not provided for the management of co-working with the equipment by several operators.

The technical data and drawings in this manual are provided for guidance and do not necessarily reflect the configuration currently delivered by our plant. If formally requested, complete up-to-date information may be supplied by the manufacturer.

3 - Safety

The risks relating to the equipment have been analysed in accordance with applicable standards.

This equipment is used with a welding installation, and in that case, is governed by the safety instructions described in the instructions of the installation for the process in question.

4 - Conformity

The serial number of the equipment is indicated on a CE identification plate located on the equipment. This equipment meets the relevant provisions of applicable directives:

- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU

Each product is delivered with its own declaration specific to its serial number.

5 - Environment

The usage temperature of the equipment must lie between -5°C (23°F) and 50°C (122°F), with air humidity below 90%.

The storage temperature of the equipment must lie between -10°C (14°F) and 70°C (158°F), with air humidity below 90%.

While disposing of the equipment and its tools and accessories, a number of precautions need to be taken, particularly in order to avoid risks during disassembly and transport, and also in relation to the environmental consequences in view of the products or components contained in it.



The equipment has one or more batteries that need to undergo a specific recycling process (refer to the indications of the supplier). The remainder of the equipment must follow the normal recycling process.

For those reasons, the company that uses and owns the equipment must take this aspect into consideration and pay for all its costs.

6 - Main recommendations

The carriage may not be used for moving or lifting loads for which is has not been designed by **LINCOLN ELECTRIC**

The tools and/or processes applied to the carriages must be approved by LINCOLN ELECTRIC.

Do not hold back, push or pull the carriage when it is operating.

The use of Personal Protective Equipment (PPE) and work clothing covering the body is mandatory in the work area. Do not wear a tie and keep your hair tied back securely.



The carriage has an IP43 protection rating; it is protected from water falling from an angle up to a 60°. Water or water vapour must not enter the inside of the carriage.

Any defective component of the carriage must be replaced or repaired by a specialist.

Regularly check the tightening of all the components of the carriage.

Do not disassemble the printed circuit boards during the guarantee period; otherwise, the guarantee will be immediately voided (unless agreed by the manufacturer).

Any modification of the equipment or addition of components that are not approved by the manufacturer can significantly modify the working of the equipment.



The carriage must be slung to prevent falls in the event of a loss of the magnetic or pneumatic adherence of the rail. To that end, use a load balancer with a capacity adjustable from 10 to 14kg (cable length 2.5m). It should be placed at a minimum distance corresponding to a cable extension of 50 to 100cm.



LINCOLN ELECTRIC shall not be liable in any way if the rules above are not applied.

7 - Limits of use of the machine or the installation



The limits of use of the machine (or installation) are provided in the different documents; please review them carefully before starting to use the machine (or installation).

For safety reasons, and in the light of our current knowledge of customer processes, the working area may be occupied only by one individual.

The machine (or installation) may only be operated by a single person above the age of 18 and trained in operating and use-related risks.

The machine (or installation) may only be used for welding applications; any other use of the machine is forbidden.

The machine (or installation) is designed for indoor use. It may not be used outdoors.

The workshop must be adequately lit and ventilated.

The dimensions and weights of the workpieces must be appropriate for the machine (or installation).

Loading and unloading may only be carried out outside the welding cycle.

The energy supply must imperatively comply with recommendations. The customer must supply and install a device for isolating each source of energy (electricity, air, gas and water). The devices must be clearly identified. They must be of the locking type.

The machine (or installation) is designed for professional use.

Before use, the operator must make sure that there is no risk of collision with personnel.

Make sure that no part of the machine can come within less than 500 mm from an obstacle. Important: the operator passage way must absolutely be clear over a minimum width of 800 mm. The floor should be marked out.

While accessing the marked area, a worker could be hit by a part of the installation.

For any extended absence, the operator must shut off the supply of utilities (electricity and fluids).

Maintenance may only be carried out by experienced personnel who are trained in machine-related risks.

Access to the machine (or installation) must be left free for maintenance (e.g. no workpiece etc.).

The frequency of such maintenance is indicated for production in one work shift per day (i.e. 8 hours a day).

Consumables must be changed based on their wear and tear.

Visually inspect the overall condition of the installation and the working area twice a shift, or with every change of production.

The maintenance schedule must absolutely be followed. We recommend putting in place a traced system for tracking all your maintenance operations.

All maintenance must be carried out by specialised personnel who have read and understood these instructions.

Electricity technician

Qualified operator with the ability to work in normal conditions on electrical parts for regulation, maintenance and repair.

Mechanical technician

Specialised technician authorised to carry out complex and exceptional mechanical operations.

8 - Residual risks

Based on the results of the risk assessment, a few elements have emerged where there was no "technical" solution for eliminating risk or making it negligible.

In spite of all the care that has gone into the designing of our machines (or installations), some risk areas remain. To control these risks, the customer must pay particular attention to them, ensure that the instructions are applied and define any additional measures that may be necessary in view of its own internal operating procedures.

Therefore, you will find below a guidance list of residual risks.

Training of operators in safety and in the use of the machine from their operating position will better address these residual risks.

We recommend putting place workstation instructions that remind users of the presence or otherwise of residual risks in the working area.

8.1 - Residual risks - General

Environment risk - slipping and/or falling



The working and safety area must be clear of all obstacles.

The working area must be kept clean and cleaned regularly.

The machine must undergo periodic maintenance (see maintenance instructions of each piece of equipment).

Waste consumables must be cleaned.

The operator must pay special attention to cables and rolling tracks on the ground.

The operator must use the necessary personal protective equipment (helmet, gloves, safety shoes, mask and work clothing).

Falling from heights:

In order to be protected from falling from heights and for access to high parts, the operator must use access means that comply with applicable standards.

For all work at heights, the use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs and harness) is indispensable.

For all work at heights, the operator must be trained in the use of means for accessing high locations.

Mechanical risk - Impacts, shearing, crushing



The operator may not wear loose clothing or a tie, must have their hair tied back and use personal protective equipment (helmet, gloves, safety shoes, mask and work clothing).

The operator must make sure that nobody else is close to the machine before starting.

The operator's working position is before the control console.

The machine safety areas must not be crossed.

The operator must be trained in the use of the machine, and all personnel must be aware of residual risks.

Catching between an obstacle and the machine - Access to a moving part.

The operator must use personal protective equipment, (helmet, gloves, safety shoes, mask and work clothing).

The operator's working position is before the control console.

The operator must make sure nobody is present in the machine working area or safety area before using it.

The operator must make sure that all the machine guards are in place before using it.

The operator must be trained in the use of the machine, and all personnel must be aware of residual risks.

Anchoring failure of handling equipment

The machine may not be modified.

The machine is not designed for anchoring lifting equipment.

Presence of a person under the load

The operator must be trained and approved for the use of handling equipment. The operator must be trained in the use of the machine, and all personnel must be aware of residual risks.

Mechanical risk - Puncturing or piercing



The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs) is indispensable.

The operator must be trained in the use of the machine and all personnel must be aware of residual risks.

8.2 - Residual risks - Process

Electrical risk - Splattering of molten particles



Splattering of molten material on flammable materials or personnel:

The working area must be kept clean and cleaned regularly.

Put guards in place around the torches depending on the working environment.

The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs, fire-resistant work clothing) is indispensable.

The operator must be trained in the use of the machine, and all personnel must be aware of residual risks.

Ergonomics risk - Fatigue

Loading of heavy coils on coil carriers at a height:

The operator must use appropriate handling means.

The operator must be trained in the use of the machine, and all personnel must be aware of residual risks.

Material and product risks - Poisoning



Fumes/gas discharged by the process:

Provide for the use of extraction equipment (to be supplied by the customer).

The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs) is indispensable.

The operator must be trained in the use of the machine, and all personnel must be aware of residual risks.

Mechanical risk - Puncturing or piercing



Contact between the end of the filler wire and a part of the body

The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs) is indispensable.

The operator must be trained in the use of the machine and all personnel must be aware of residual risks.

Radiation risk - Eye and skin injuries



<u>Arc flash</u>

Put guards in place around the torches depending on the working environment.

The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs) is indispensable.

The operator must be trained in the use of the machine and all personnel must be aware of residual risks.

WELDY-RAIL

Thermal risk - Burns



Part of the body in contact with a hot part (torch/workpiece etc.)

The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs) is indispensable.

The operator must be trained in the use of the machine and all personnel must be aware of residual risks.

Noise risk - Fatigue



<u>Process noise</u>

The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs) is indispensable.

The operator must be trained in the use of the machine and all personnel must be aware of residual risks.

Mechanical risk - Crushing



Handling of gas cylinders and/or racks

Gas cylinders must be transported securely strapped to a truck. Racks are to be transported with appropriate handling equipment (e.g. travelling crane, lift truck).

The operator must be trained and approved for the use of handling equipment. The use of personal protective equipment (helmet, gloves, safety shoes, mask, ear muffs) is indispensable.

Material and product risk - Explosion

<u>Storage of gas cylinders and/or racks near the machine</u> The storage must be sufficiently distant from the welding area and other sources of heat, in a ventilated location.

Cylinders must be secured.

The operator must be trained and personnel must be aware of how gas is used.

9 - Guarantee limitation

No modification may be made to the equipment or tools during the guarantee period. Any modification that is made without prior written consent shall void the guarantee.

LINCOLN ELECTRIC shall guarantee the working of the equipment providing only the supplied and certified components are used. These original components are listed in the list of spare parts.

The equipment is guaranteed for 12 months from its date of delivery (except wearing parts).

The equipment is guaranteed, including parts and labour, except if:

- any equipment modifications have been made by a company other than **LINCOLN ELECTRIC** without its permission.
- failures are caused by use outside the stated usage temperature range.
- failures are caused by accidental impacts on the equipment.
- failures are caused by external connections that are not in accordance with recommendations.
- failures are caused by external reasons.
- any of the heat-sensitive labels on the rail showing that maximum permitted temperature is not exceeded are missing.



CAUTION!

Do not disassemble the printed circuit boards during the guarantee period; otherwise, the guarantee will be immediately voided (unless agreed by the manufacturer).



CAUTION!

Any modification of the equipment or addition of components that are not approved by the manufacturer can significantly modify the working of the equipment.

10 - Transport and handling

The loading and transport of the equipment from the premises of **LINCOLN ELECTRIC** to the customer's facility are defined in the conditions negotiated with the order.

The conditions for unloading and handling the equipment up to its place of use are defined in the conditions negotiated with the order.

By default, the equipment is delivered in a cardboard box.



The equipment has a lithium ion battery that has special requirements in the areas of transport, storage and recycling (refer to battery literature).

C - DESCRIPTION

1-Overview

This independent carriage travels on a guide rail and can hold a MIG/MAG torch in order to make the welder's work easier. It is lightweight and rugged, and once equipped, it will provide the quality of automatic setting in motion, at the same time allowing simple use and rapid implementation.

The carriage is clipped to a flexible rail and is driven by a notched pinion that is inserted in a profile cut in the rail. The rail can be easily fastened to a tank or frame using standard or high-temperature (HT) magnetic pads or pneumatic suction cups that use the Venturi system, more suitable for aluminium or stainless steel plates.

The rails can be fitted end to end with others, to address longer welds.

A disengagement lever makes it possible to position the carriage.

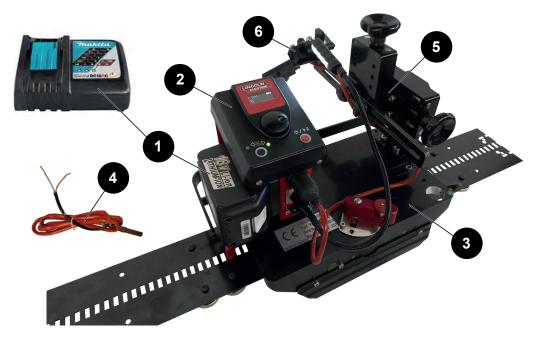
The carriage display indicates the actual speed of the carriage when it is in motion.

The torch holder has an arc sensor for starting the carriage automatically.

The basic PRO version also allow the control of the power source welding start (trigger). It allows the management of pre/post welding times, anti-cratering and intermittent welding.

The WELDY-CAR 2.0 PRO pack is supplied with the following:

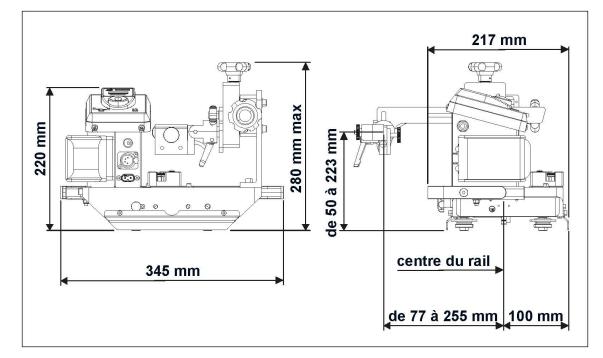
- carriage base
- control unit
- 40 mm crossed slides
- torch holder with arc sensing
- trigger start cable
- battery and charger.



1	18V battery with 230V charger
2	Carriage control panel
3	Mobile base
4	Welding start cable (trigger)
5	40mm manual crossed slides
6	MIG torch holder with sensor

1.1 Specifications

Specification		
Programmable: • Power source control (trigger) • Intermittent welding		Yes
Carriage speed	cm/min	1 to 180
manual X & Y slide travel	mm	40
Torch holder with arc sensing		Universal with quick attachment
Overall exterior dimensions	mm	Length: 345 Width: 220 Height: 255
Weight of carriage with battery and manual X and Z slides Weight of carriage with battery and Z slide and oscillation slide	Kg	8 11
Maximum equipment load	Kg	5
Protection rating		IP43
Electrical energy		
Electrical power voltage		18V Lithium ion battery 5Ah
Battery life	hours	10
Battery life with optional oscillator	hours	5
Charging time with 230V - 50-60 Hz charger	Min	45
Operating and storage		
Operating temperature (with air humidity below 90%)	-	-5°C to +50°C
Storage temperature (with air humidity below 90%)		-10°C to +70°C
Welding position		
Guiding		Flexible magnetic rail
Minimum rail curve OD diameter	mm	1000
Minimum rail curve ID diameter	mm	1200
Rails		
Magnetic rail: • Standard • High temperature	degrees	below 70° below 180°
Suction cup rail: · Service pressure required · Compressed air consumption for one 1.5 m rail	bar I/min	5.5 72



Optional oscillators			
Pendulum oscillator			
Oscillation travel (amplitude)	mm	0 to 40	
Frequency	Strokes/ min	0 to 100	
OSCI-WELDY linear oscillator ⁽²⁾			
Oscillation travel (amplitude)	mm	2 to 56	
Offset (O)	mm	0 to 27 (dependent on amplitude)	
Oscillation speed	cm/min	20 to 200	
External timer (t1)	seconds	0 to 10	
External timer (t2)	seconds	0 to 10	



Please refer to the document:

· 86955877: OSCI-WELDY

AS-PM-T0550100	WELDYRAIL 2.0 PRO	
	Power supply	у
AS-PP-T0550100	Battery	Trackitt
AS-PP-T0550101	Battery charger 18V POWER 110-230VAC	
AS-PP-T0550102	Direct mains power supply, 110V-230VAC	
	Rails	
AS-PP-T0550107	Magnetic rail, 1.5 metres	
AS-PP-T0550108	Magnetic rail, 0.75 metres	
AS-PP-T0550109	Rail end magnet	
AS-PP-T0550110	HT magnetic rail, 1.5 metres	

AS-PP-T0550111	HT magnetic rail, 0.75 metres	
AS-PP-T0550112	End of rail magnet, HT	
AS-PP-T0550115	Pneumatic rail, 1.5 metres	A A A A
	Safety	
AS-PP-T0550113	2 rail stops	
AS-PP-T0550114	Magnetic sensor kit (x2)	
AS-PP-TP0550116	10-14 kg load balancer Length 2.5 metres	
W000315476	250 kg fall arrest system Length 10 metres	
	Holders	
AS-PP-T0550103	Bundle holder post	T
AS-PP-T0550104	XLR lamp	and a second secon

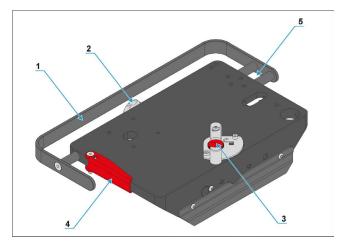
AS-PS-T0550004	Extraction torch holder	
AS-PS-T0550002	InnershieldK 115 K116 torch holder	
AS-PS-T0550006	Hyperfill torch holder kit	Ø 40
AS-PP-T0550106	Manual slide, 100MM	
	Oscillation/sli	de
W000315474	Pendulum oscillator	
W000276068	Linear oscillator	
AS-PP-T0550105	Weldyrail linear oscillator assembly kit	

2 - Mechanical description

The equipment is an independent carriage that moves on a guide rail and is designed especially for mechanising semi-automatic welding in all positions. It is designed to operate with at least one control unit and a torch holder.

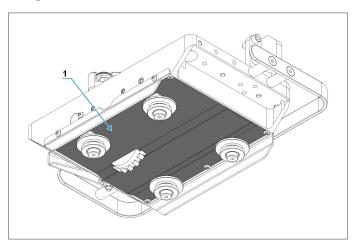
It is lightweight and rugged, and once equipped, it will provide the quality of automatic setting in motion, at the same time allowing simple use and rapid implementation.

2.1 Description of mobile base

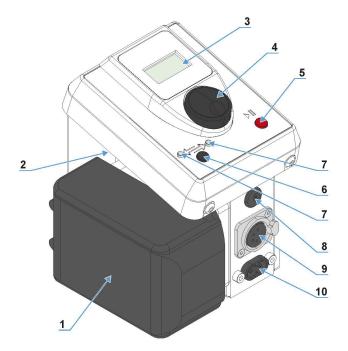


1	Carrying handle: => lifting the carriage ergonomically to move it.
2	Adjustment wheel: => turning the guide rollers if the flexible rail is placed on a curved part. The central position corresponds to support on a flat surface.
3	Locking handle: => locking/unlocking the guide rollers on the guide rail to keep the carriage on the rail.
4	Motor disengagement lever: => rolling the carriage by hand on the rail.
5	Reinforced slinging area: => slinging the carriage for more safety if the magnetic or pneumatic adherence of the rail is lost.

2.2 Access for servicing and maintenance

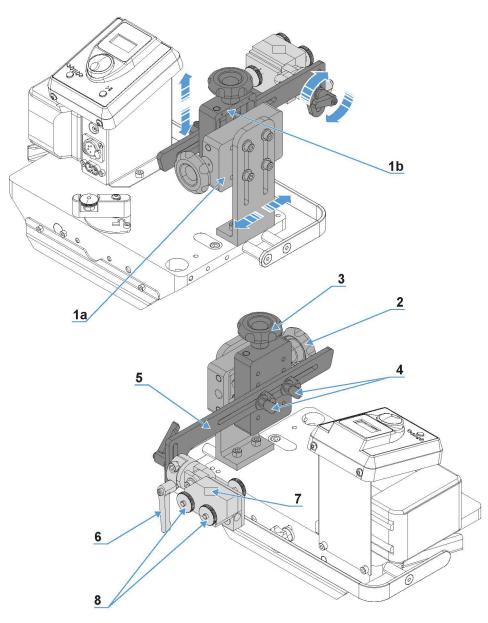


<u>Casing:</u> => inspecting, repairing and maintaining the components of the carriage.



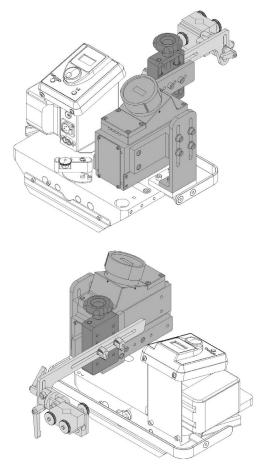
1	Battery: => supplying power to the equipment. The equipment is designed to operate with an 18V lithium ion battery.
2	Accessory power connector: => connecting an accessory (slide, oscillator etc.).
3	Screen: => setting up and controlling the equipment.
4	Selection wheel/click: => navigating the menus and selecting the different operating parameters.
5	On/off and cycle start/pause button: => starting and shutting down the equipment, and starting a cycle or putting it on pause.
6	Direction change button: =>changing the carriage movement direction.
7	Direction indicator lamps: => showing the carriage movement direction. The LED flashes when the cycle is under way.
8	 Welding arc sensor connector: => connecting a welding arc sensor located on the torch holder. In that case, carriage movement is synchronised with the arc, which is triggered by the torch trigger.
9	Accessory port: => connecting an accessory (e.g. lamp, etc.).
10	Torch trigger control port: => connecting a cable to control the trigger on the torch. In that case, the welding arc is synchronised with carriage movement, which is triggered by the Cycle start button on the console.

2.4 Description of the double YZ manual slide torch holder

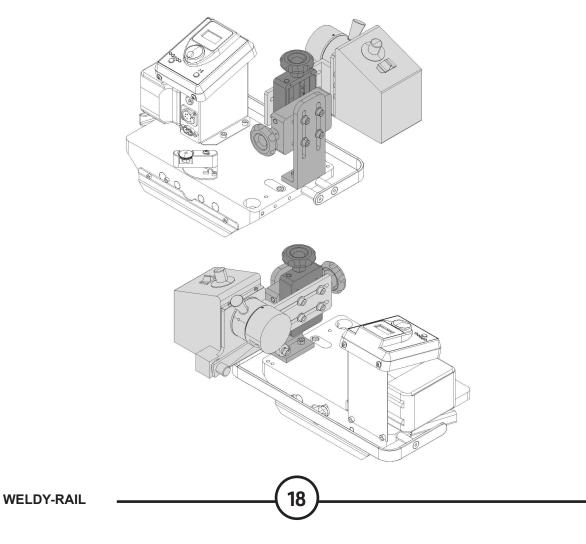


1a	Manual Y slide: => using the wheel (Ref. 2) to finely adjust the transverse position of the tool fitted on.	
1b	Manual Z slide (Ref. 1b): => using the wheel (Ref. 3) to finely adjust the height of the tool fitted on.	
4	Wing screw: => moving the holder (Ref. 5) laterally in relation to the carriage movement direction.	
6	Tightening handle: => adjusting the angle of the welding torch holder (Ref. 7).	
7	Torch holder: => fastening the welding torch to the carriage. This holder is made up of two jaws tightened by two knurled screws (Ref. 8) around the torch gooseneck.	

2.5 View of assembly with optional OSCI-WELDY Y oscillator + manual Z slide



2.6 View of assembly with optional pendulum Y oscillator + manual double Y/Z slide



2.7 Magnetic rail

This rail guides the WELDY-RAIL 2.0 PRO carriage on a magnetic plate (steel). It has magnets to hold the rail to the part using a magnetic system.

Dimensions & Weight		
Dimensions (Length x Width x Height): · For 1500 mm long rail · For 750 mm long half rail	mm	1497x100x20.5 757x100x20.5
Weight (depending on number of magnets): • For 1500 mm long rail • For 750 mm long half rail	Kg	3.5 to 4.2 2.5 to 3.2
Capacity limit in working position: For an equipped carriage (with option and one additional 2kg load)	Kg	16
Operating and storage		
With standard rails: • Temperature of the surface in contact with the rail • Storage temperature	°C	< 70 < 70
 With high-temperature rails: Temperature of the surface in contact with the rail Storage temperature 	°C	< 180 < 70
Maximum curve radius • Min. OD diameter • Min. ID diameter	mm	1000 1200



In order not to damage the magnetic property of the magnets that hold the rails in position, and also the carriage when it is in use, optional high-temperature magnets are available, which are suitable for use with pre-heating.



The magnets may interfere with the working of pacemakers and implantable defibrillators. A pacemaker could switch to test mode and make the wearer unwell. A defibrillator could possibly cease to operate.

If you wear such a device, keep a sufficient distance from the magnets. Prevent wearers of such devices from approaching the magnets.



Do not use the rail to move or support equipment other than Weldy-Rail carriages. Do not push or pull the rail when a carriage is fastened on it.

Check the temperature of the metal surface on which the rail is placed before use. Check the heat-sensitive label before use.



Handle the rail with suitable protective equipment (gloves, safety shoes, helmet, safety glasses etc.).

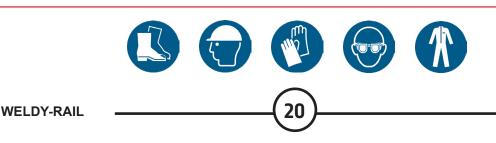
Make sure the whole rail (magnets, sides, rack) is clean before use.

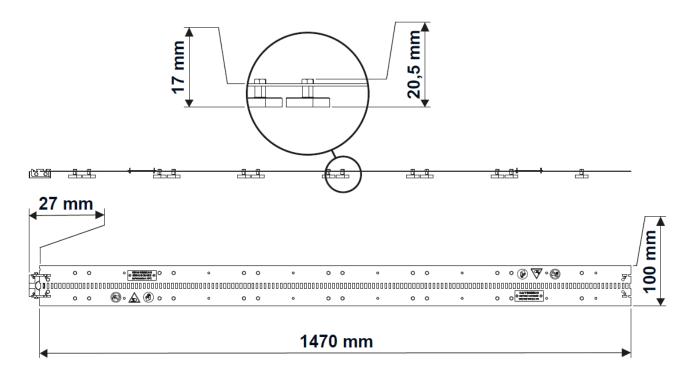
Any modification or addition of components that are not approved by the manufacturer can significantly modify the working of the equipment. Replace the magnets if they are broken



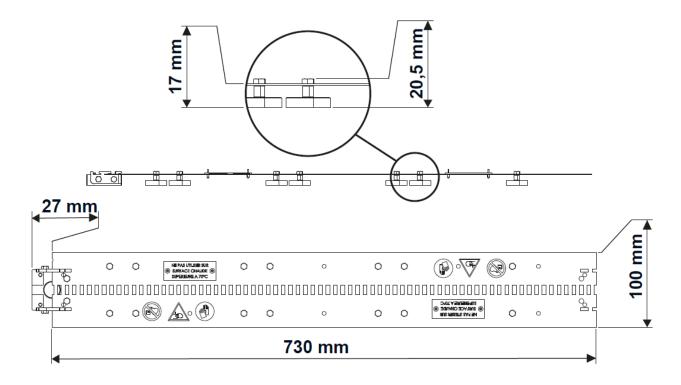
Keep the magnets safe from strong impacts when placing the rails. Mind the risk of pinching while placing the rails.

Make sure that the magnetic pads are clean for putting the rails in place.





Dimensions of magnetic rail => length 750:



2.8 Pneumatic rail

This rail guides the WELDY-RAIL 2.0 PRO carriage on a non-magnetic plate (aluminium or stainless steel).

It has suction cups to hold the rail to the part using a Venturi vacuum system.

Dimensions & Weight		
Dimensions of 1500 rail	mm	Length: 1497 Width: 185 Height: 65
Weight	Kg	6.5
Capacity limit in vertical and ceiling working position For an equipped carriage (with option and one additional 2kg load)	Kg	16
Operating and storage		
Temperature of the surface in contact with the rail	°C	< 70
Storage temperature	°C	< 70
Maximum curve radius Min. OD diameter Min. ID diameter 	mm	1500 2000

Do not use the rail to move or support equipment other than Weldy-Rail carriages. Do not push or pull the rail when a carriage is fastened on it.

Check the temperature of the metal surface on which the rail is placed before use. Check the heat-sensitive label before use.



Handle the rail with suitable protective equipment (gloves, safety shoes, helmet, safety glasses etc.).

Make sure the whole rail (magnets, sides, rack) is clean before use.

Any modification or addition of components that are not approved by the manufacturer can significantly modify the working of the equipment.

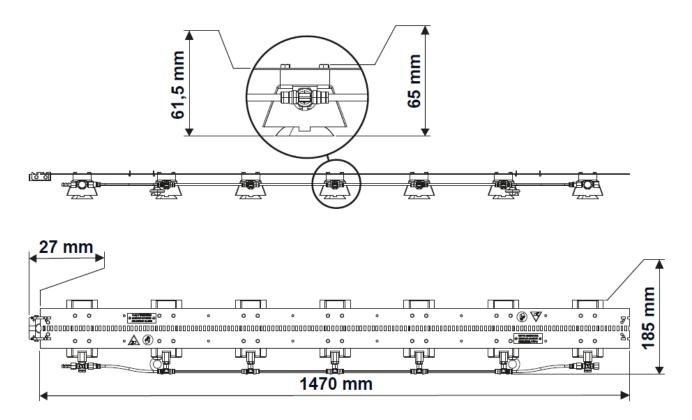
Replace the magnets if they are broken



Keep the suction cups safe from strong impacts when placing the rails. Mind the risk of pinching while placing the rails.

Make sure that the magnetic pads are clean for putting the rails in place.





2.9 Inspection of the heat-sensitive label

Every time the rails are used, checking the heat-sensitive labels placed under the rail is **ABSOLUTELY NEC-ESSARY**. The label is used to take the temperature near the magnets and save it.



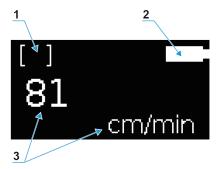
Caution! If the temperature exceeds the usage limit (depending on the characteristics of the rail used), the rail MAY NOT BE USED as it is. The magnets MUST BE CHANGED, and a new heat-sensitive label must be applied.

Heat-sensitive label 65°C to 93°C		Heat-sensit 160°C to	
65 71 77 82 88 93 °C 68 150 160 170 180 190 200 °F	6ML-3 65 71 77 82 88 93 °C 150 160 170 180 190 200 °F	°C 199 193 188 182 177 171 166 160 555-421	
	X		

3.1 Main view

Press the red button to switch on the carriage. The screen switches on.





1	Carriage status: []: Programmable mode disabled/automatic start disabled [A]: Automatic start enabled (via arc sensor) [P]: Programmable mode enabled 	
2	Battery level	
3	 Display of welding feed speed, modifiable during the cycle: The choice of the number of decimals after the point is adjustable The choice of the unit is adjustable 	



Caution:

The Start button is used as follows:

- cycle start/stop button (short press)
- immediate stop/pause (short press)
- starting up and shutting down (long press)

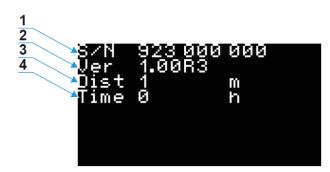


NB: In vertical positions, with a certain carried mass, the distance covered may be different from the setpoint. For example, with PG (vertical downhill welding), there may be up to 5% more at a 50cm/min speed

3.2 Product information access

This page is accessible by clicking the wheel for 2 seconds when the **LINCOLN ELECTRIC** logo is displayed when the carriage is switched on.





1	Serial number	
2	Software version	
3	Distance covered (in metres)	
4	Power up counter (in hours), time increment when the equipment is switched on.	

3.3 Access to advanced settings menu

This page is accessible when you keep the wheel clicked in till "Password" is displayed, and then release it.



Mot	de	passe	
0			

Password entry (using the wheel): different user levels:

- Manufacturer (**LINCOLN ÉLECTRIC**)
- Customer: 73



Then click the wheel. That provides access to the advanced settings menu:



Menu in English (EN) or French (FR) depending on setting:

Select the required setting using the wheel, and then click to access the selection, Select the value via the wheel and then click to confirm the selection by going back to the menu page, Once completed, click on Save and exit to go back to the main view of the interface.

Language:

Fr = 0 and En = 1

Unit:

Unit: Cm = 0 and Inch = 1

Max speed (cm/min):

Max speed (in cm/min)(Speed corresponding to the not-welding speed):

Increment: 1 and Min: 1

Version	Maximum speed
WELDYCAR Ø 75 mm	Max: 200 (if CM/MIN)/80 (if INCH/MIN)
WELDYCAR Ø 100 mm	Max: 266 (if CM/MIN)/104 (if INCH/MIN)
WELDYRAIL 2.0	Max: 180 (if CM/MIN)/70 (if INCH/MIN)



Reduction:

Increment: 1 Min: -10,000 Max: 10,000



Carriage reduction value correspondence table.

Version	"Point per cm"
WELDYCAR Ø 75 mm	1398
WELDYCAR Ø 100 mm	1048
WELDYRAIL 2.0	-1544



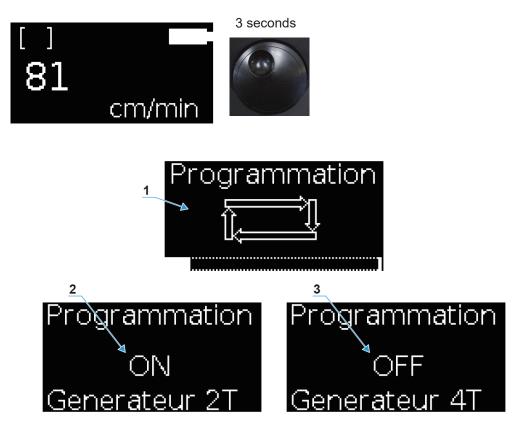
If this setting is changed, the permissible maximum speed must also be changed

26

• Save and exit:

WELDY-RAIL

3.4 Programming



When you press the wheel, you reach the Programming page (Ref. 1). Clicking the wheel enables you select the type of programming:

- Programming On (Ref. 2)
- Programming Off (Ref. 3)

To move from one to the other, just turn the wheel. The confirm by clicking on the wheel.



3.5 Programmable mode enabled, On [P]

When the Programming On mode is selected, turning the wheel enables you to navigate through the different possibilities of settings:

27

• Welding control delay before carriage movement during the defined period:



Click on the icon to modify the following settings: - Pre-welding delay (in seconds): 3.0

Increment: 0.1 Min.: 0.1 Max.: 3.0



• Weld length (weld length at a speed pre-set on the main screen):





Click on the icon to modify the following settings:

- Weld length (in cm or inches depending on the setting): 5.00 Increment: 0.01/0.1/1 (depending on pre-set parameter) Min.: 0.00 Max.: 500.00

• Crater return at the end of the weld length, the carriage goes back by the set value:





Click on the icon to modify the following settings:

- Crater return (in cm or inches depending on the setting): 3.0
 - Increment: 0.1
 - Min.: 0.0
 - Max.: 3.0
- Crater return arc (enabling welding control during a crater return):



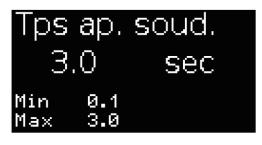


Click on the icon to modify the following settings:

- ON = 1: the trigger relay output is active during crater return.
- OFF = 0: the trigger relay output is inactive during crater return.
- Welding control delay with continued carriage movement up to the end of the defined period:

28





Click on the icon to modify the following settings:

- Post-welding delay (in seconds): 3.0 Increment: 0.1

Min.: 0.1 Max.: 3.0

WELDY-RAIL





Click on the icon to modify the following settings:

 Non-welding length (in cm or inches depending on the setting): 5.00 Increment: 0.01/0.1/1 (depending on pre-set parameter) Min.: 0.00

Max.: 500.00

Repetition (Number of repetitions of programmed cycle (welding/non welding)):

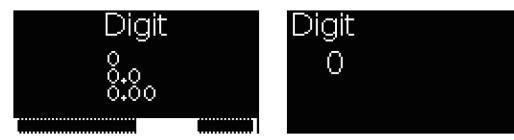


Repetition O Min Ø Max 99

Click on the icon to modify the following settings:

- Repetition Increment: 1
 - Min.: 0
 - Max.: 99

Digit:



Click on the icon to modify the following settings: - Digit





Clicking on this icon takes you back to the main view.

3.6 Programmable mode disabled, Off [] or [P]

When the Programming Off mode is selected, turning the wheel enables you to navigate through the different possibilities of settings:

Arc sensing:



Click on the icon to modify the following settings:

ON = [A]: Automatic start enabled (via arc sensor).

OFF = []: Programmable mode disabled/automatic start disabled.

Digit:



Click on the icon to modify the following settings: - Digit

• Exit:



30

Clicking on this icon takes you back to the main view.

1 - Putting in place

Set the guide rail parallel to the joint, about 30cm away from it. Assemble several rails depending on the required length.



Move the carriage to the working area. To do so, wear protective gloves before you move the carriage using its carrying handle.

- Weight of basic carriage 8Kg
- Weight of carriage with oscillation option 11Kg





Place the carriage on the guide rail and lock the guide rollers using the red lever.

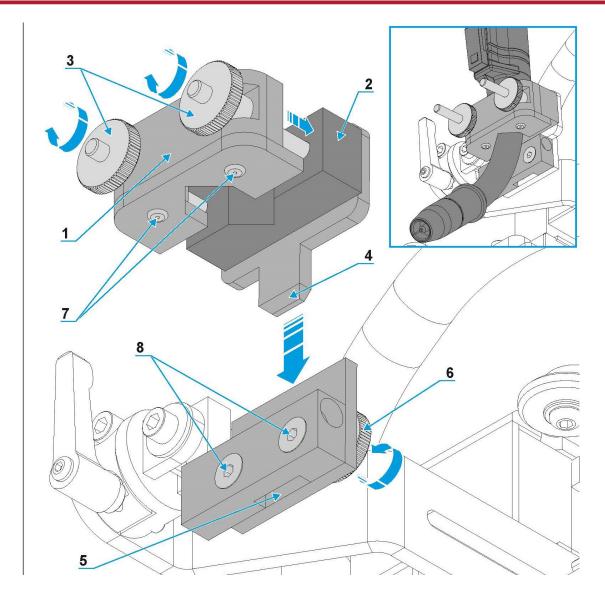


IMPORTANT! For vertical or horizontal vertical applications, the following safety systems must be added: - Rail stop at the bottom of the rail - A balancer fastened above the working area and joined to the carriage carrying handle



To access equipment at heights, the user must use accessing means in accordance with the regulations, such as a safe mobile gangway, an aerial lift etc.".





- Place the torch gooseneck between the two jaws (Ref. 1) and (Ref. 2).
- Screw the two knurled nuts (Ref. 3) to clamp the tool between the jaws.
- Insert the torch clamp (Ref. 4) in the holder (Ref. 5).
- A quick attachment system (**Ref. 6**) allows you to easily lock/detach the torch clamp (**Ref. 4**) to/from the holder (**Ref. 5**).



The jaw (**Ref. 1**) must be turned down in order to form a steel bridge that loops a magnetic field for detection with the arc sensor. To do so, the two stops (**Ref. 7**) of the jaw (**Ref. 1**) must be turned towards the two screws (**Ref. 8**) of the holder (**Ref. 5**).

There are different torch holder models: standard or for extraction, hyperfill or innershield torch.



IMPORTANT! While assembling the torch, make sure that the torch bundle does not interfere with the parts around the weld area. As an option, we supply a bundle holder post fastened to the carriage.

E - OPERATING MANUAL

1 - Putting the carriage into service

Place the mechanical Y and Z slides at the middle of the travel range and make the adjustments on the torch holder arm along the transverse line of the carriage (on the fastening bracket for height and the torch holder for the direction) in order to place the torch correctly at the joint to weld. Many fastening holes are provided on the rails to extend the adjustment range.

Install the battery or (optional) external power supply Switch on the carriage by pressing the red button (long press). The screen switches on



ΟN

Adjust the welding speed.



After that there are two possibilities:



SET-UP	In this Programming Off mode, the following are required: - Welding power source in four stroke mode - Connect the current sensor - Current clamp properly assembled	In this Programming On mode, the following are required: - Welding power source in two stroke mode - Connect the trigger cable to the torch						
PROG	No programming	You can programme: - A welding length - Intermittent welding - Pre and post welding time						
ON	Press the welding torch trigger; the current sensor senses the strike and starts the carriage. The carriage moves as long as the arc is on.	Press Cycle start/stop; the carriage controls the torch and activates the arc in accordance with the set cycle programme.						
	During the welding process, you can - Modify the position of the torch with the wheels of the mechanical slides. - Modify the welding speed							
OFF	Press the welding torch trigger once again; the current sensor no longer senses the arc and thus the carriage stops.	Press Cycle start/stop once again; the carriage controls the torch and stops welding in accordance with the set cycle programme.						

F - MAINTENANCE

1 - Care



Before working on the machine, it is **<u>MANDATORY</u>** to lock out all the supplies of utilities to the machine (electricity, air, gas etc.).

Locking an emergency stop button is not sufficient.



<u>CAUTION</u>: All work at heights (maintenance, troubleshooting etc.) must be carried out with appropriate personnel lifting equipment.



For operating instructions, adjustments, troubleshooting and spare parts, please refer to the special instructions for safe operating and maintenance.



The use of Personal Protective Equipment (PPE) is mandatory.



1.1. Routine maintenance

- Remove weld splatter.
- · Regularly clean the outside of the carriage and adjustment parts
- Clean the holder every time the battery is inserted.
- Regularly clean the magnets or suction cups of the rails using a soft cloth and a blower.

1.2. Periodic maintenance

The distance covered and the number of hours of use of the carriage can be seen from the Information page of the HMI.

After every 100 hours of use:

- Clean the carriage and adjustment parts:

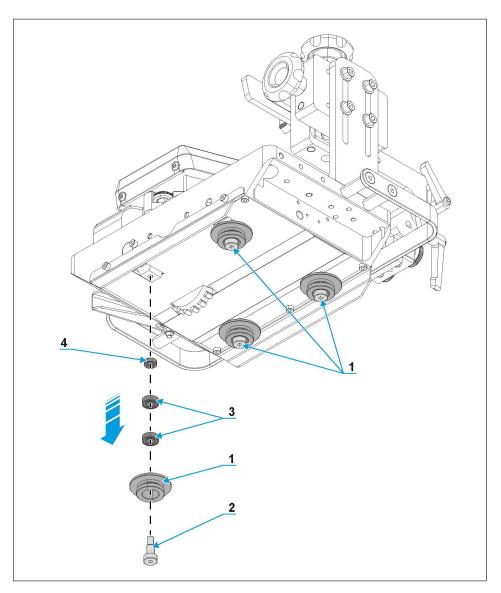
- clean the lower casing of the mobile base.
- clean the support rollers.

After every 500 hours of use:

- clean and lubricate the components of the moving parts.

- check the wear and tear of moving parts and replace any parts with excessive play.
- carefully blow on the printed circuit boards with dry air and check the connections.

The recommended lubricant is high-performance grease for moving metal/metal combinations, type Molykote Br2 Plus.

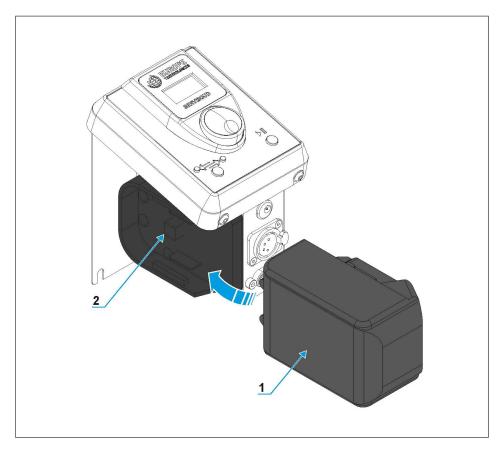


<u>Guide roller replacement procedure:</u> • Unscrew the screw (**Ref. 2**) and remove the guide roller (**Ref. 1**).



The guide roller is held by three bearings (Ref. 3 & 4). Take care not to lose them during disassembly, and to put them back in the correct order during reassembly.

- Repeat the operation to remove the four guide rollers (Ref. 1)
- Reverse the procedure for reassembly.



The carriage is designed to operate with an 18V lithium ion battery or an optional external power supply.

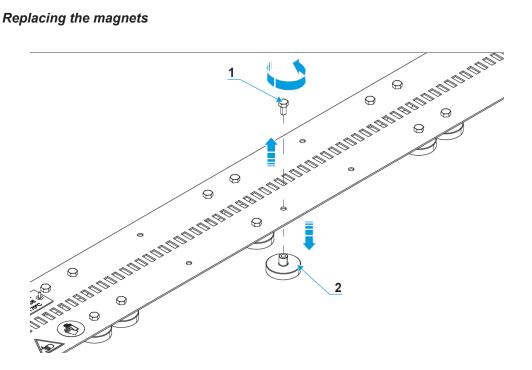
Battery replacement procedure:

• Release the battery (**Ref. 1**) by pressing the unlocking button before taking it off its holder (**Ref. 2**).



It is important to clean the holder thoroughly using a blower or a clean cloth before inserting a battery. Risk of malfunction.

• Insert the battery (Ref. 1) in its holder (Ref 2) up to the holding clips.



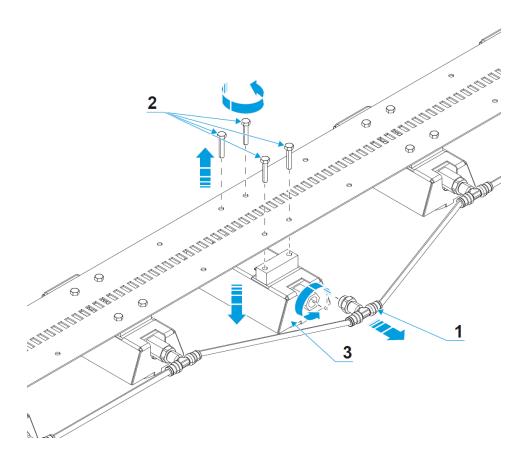


CAUTION!

Wait for the rail to cool down sufficiently before handling it (possible risk of burns).

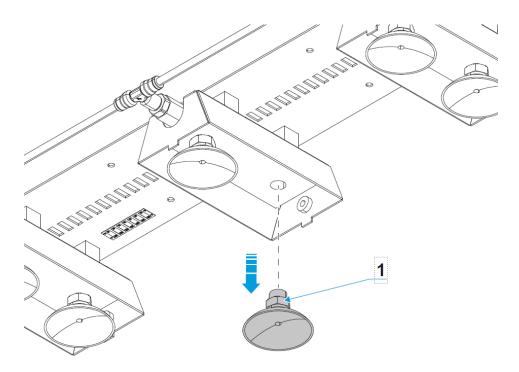
Magnet replacement procedure:

- Demagnetise the rail of all parts and metal dust.
- Unscrew the screw (Ref 1) to remove the magnet (Ref. 2).
- Replace the magnet (Ref. 2) with a standard or HT magnet.
- Screw the screw (Ref. 1) to fasten the magnet (Ref. 2).
- · Repeat the operation if several magnets need replacement.



- <u>Complete suction cup unit replacement procedure:</u>
 Turn off the pneumatic supply and isolate the rail from the pneumatic circuit.
 Unscrew the Tee (**Ref. 1**) and take it off.

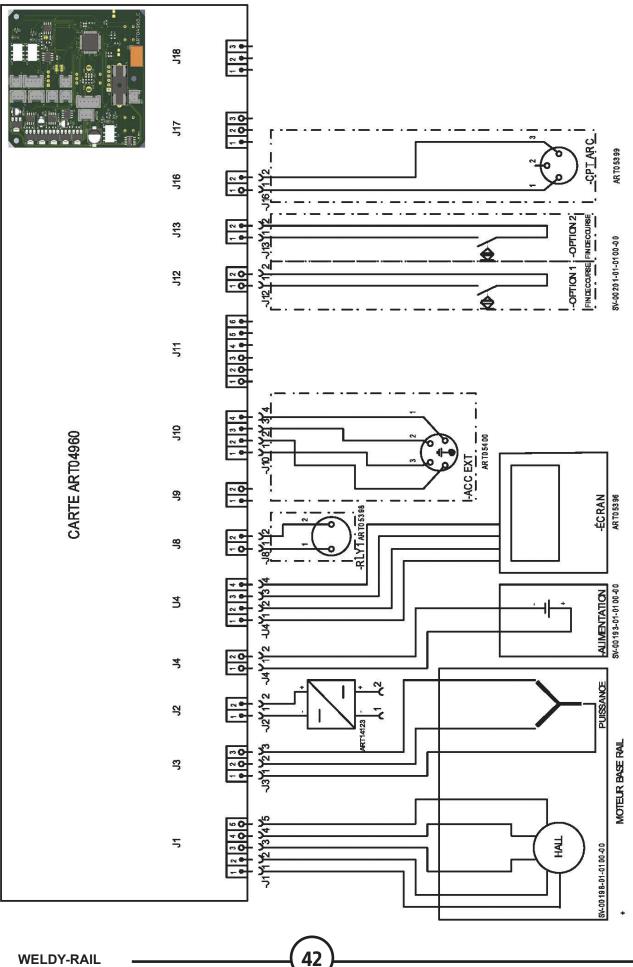
 - Unscrew the four screws (Ref. 2) and then remove the complete suction cup unit (Ref. 3).
 - Replace the complete suction cup unit (Ref. 3) and screw back the screws (Ref. 2).
 - Put back the Tee (Ref. 1).
 - Repeat the operation if several complete suction cup units need replacement.



- Suction cup replacement procedure:
 Turn off the pneumatic supply and isolate the rail from the pneumatic circuit.
 Unscrew the nut integral with the suction cup (Ref. 1) using a 17mm open-ended spanner.
 - Replace the suction cup.
 - Screw the nut integral with the suction cup (**Ref. 1**) using a 17mm open-ended spanner.
 Repeat the operation if several suction cups need replacement.

2 - Troubleshooting

Possible symptom	Probable causes	Possible remedies	
Low battery	The battery is discharged.	Recharge or replace the WELDY- RAIL battery.	
The arc sensor no longer works.	The tool holder jaw is assembled in the wrong direction.	Check the assembly of the tool holder.	



Ordering procedure:

Almost all the parts of a machine or installation are referenced in the photographs and sketches.

The descriptive tables contain three types of item:

- items normally held in stock:
- items not held in stock: X
- articles upon request: no reference

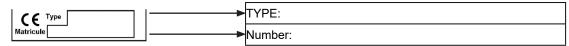
(For such parts, please complete the list of parts page and send us a copy. In the Order column, state the number of parts required and indicate the type and number of your equipment.)

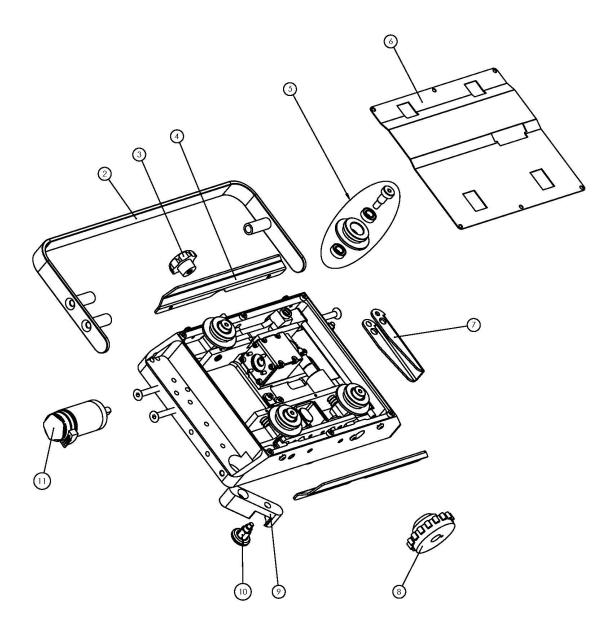
For items referenced in the photographs or sketches but not included in the tables, please send us a copy of the relevant page and highlight the relevant reference.

Example:

normally held in stock.
not in stock
upon request.
_

Ref.	Part no	Stock	Order	Description
E1	W000XXXXXX	~		Machine interface board
G2	W000XXXXXX	×		Flow meter
A3	P9357XXXX		•	Printed front plates





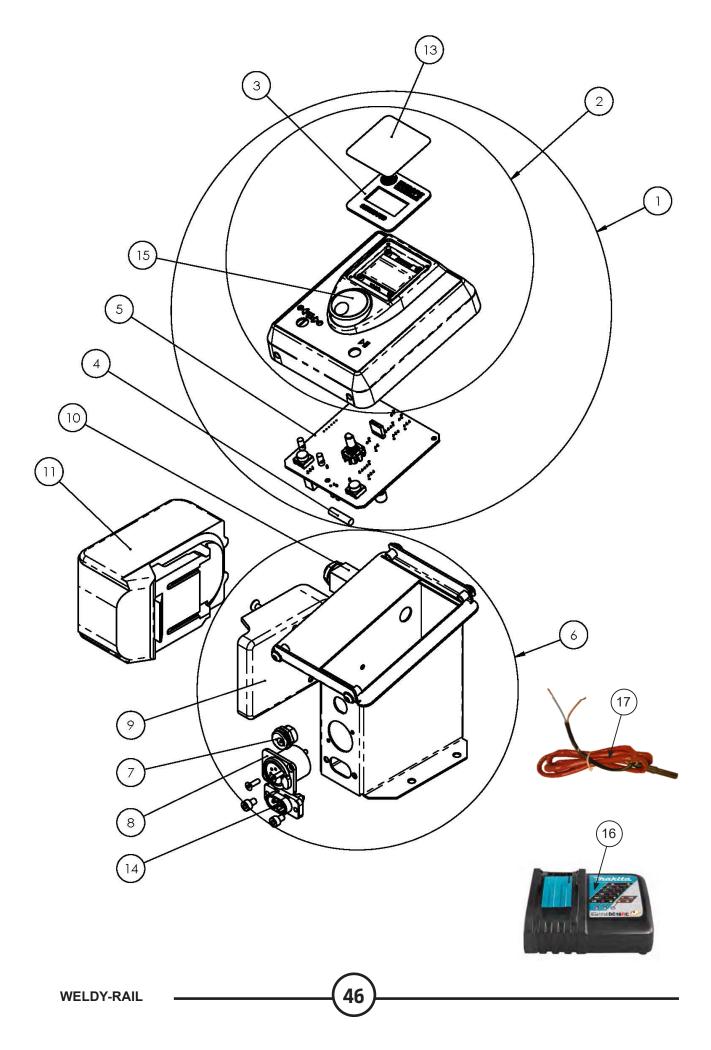
Ref.	Quantity	Description		
2	1	Handle		
3	1	Star button		
4	2	Protective plate		
5	4	Rail base roller subassembly		
6	1	Guard casing		
7	1	Engagement lever		
8	1	Drive pinion		
9	1	Lever		
10	1	M8 indexing pin		
11	1	Geared motor with bundle		

Order form:

		Ļ	✓ ★	normally held in stock. not in stock upon request.
Ref.	Part no	Stock	Order	Description
2	AS-PS-T0550100			Carrying handle
3	AS-PS-T0550101			Star button
4 (x2)	AS-PS-T0550102			Set of protective plates
5 (x4)	AS-PS-T0550103			Set of guide rollers
6	AS-PS-T0550104			Guard casing
7	AS-PS-T0550105			Engagement lever
8	AS-PS-T0550106			Drive pinion
9	AS-PS-T0550107			Lever
10	AS-PS-T0550108			Indexing pin
11	AS-PS-T0550109		≜	Geared motor with bundle

• While ordering parts, please indicate the quantity and note the number of your machine in the box above.

		TYPE:
Matricule	 ───►	Number:



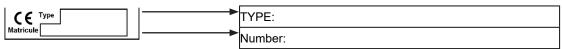
Ref.	Quantity	Description		
1	1	Original interface		
2	1	Original interface without board or panel potentiometer button		
3	1	Screen protection window		
4	1	Fuse cartridge, 5A 5x20		
5	1	Original control board		
6	1	Original control unit		
7	1	Arc sensor connector		
8	1	External accessory connector control unit bundle		
9	1	Battery holder		
10	1	Jack connector, 6.35mm		
11	1	Battery, 18V 5.0 Ah		
16	1	Battery charger		
13	1	Window protection film		
	1	Matte window protection film		
14	1	Trigger connector bundle		
15	1	Panel potentiometer button		

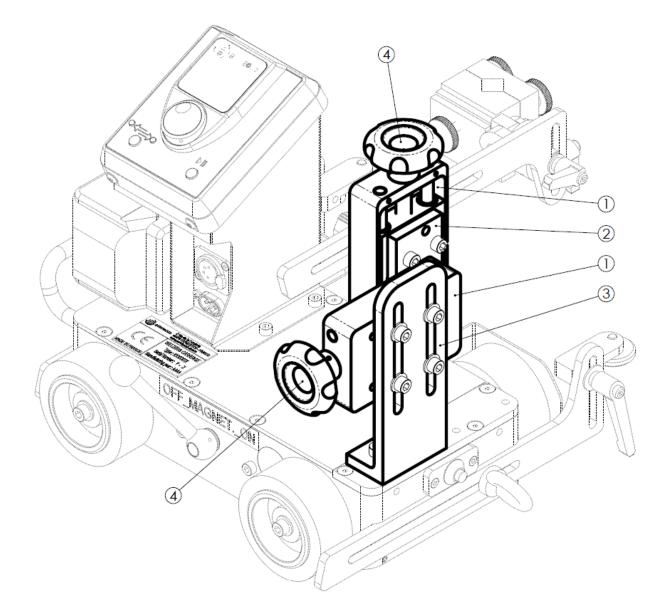
Order form:

normally held in stock.								
X not in stock								
		upon request.						

Ref.	Part no	Stock	Order	Description
1	AS-PS-T0550110			Complete interface
2	AS-PS-T0550111			Panel
4 (x10)	AS-PS-T0550112			Fuse, 5x20 5A
5	AS-PS-T0550113			Control board
6	AS-PS-T0550114			Control unit with connectors
9	AS-PS-T0550115			Battery holder
11	AS-PS-T0550116			Lithium ion battery, 18V 5Ah
13 (x5)	AS-PS-T0550117			Protective film
15	AS-PS-T0550118			Potentiometer button
16	AS-PS-T0550119			Battery charger
17	W000401758		≜	Trigger cable

• While ordering parts, please indicate the quantity and note the number of your machine in the box above.



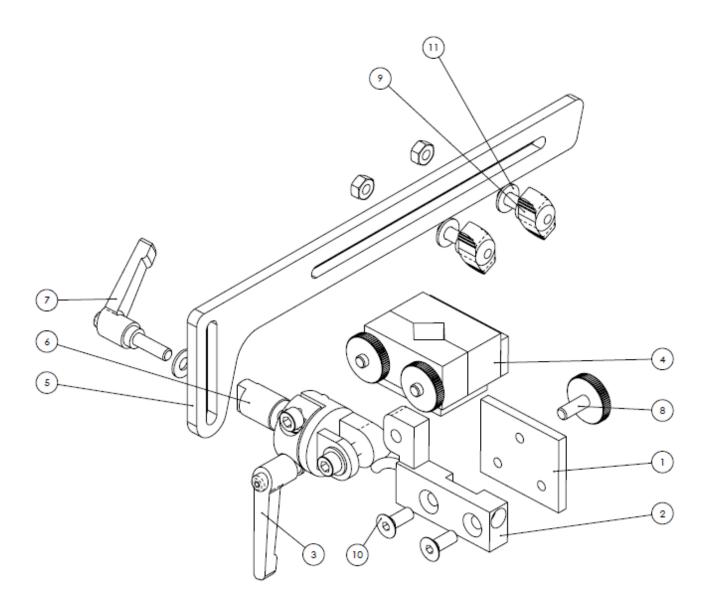


Ref.	Quantity	Description				
1	2	Simple slide				
2	2	Manual carriage connecting bracket				
3	1	Torch holder bracket				
4	2	Slide wheel, ø51				

Order form:

		Г	× ×	normally held in stock. not in stock upon request.	
Ref.	Part no	Stock	Order	Description	
1	W000401736			Complete assembled adjustment slide	
4	W000401744		•	Slide wheel	

	TYPE:
Matricule	Number:



Ref.	Quantity	Description		
1	1	Torch holder plate		
2	1	Equipped arc sensor with long cable		
3	1	Angular adjustment piece with lever		
4	1	Torch holder mounted on Tee		
5	1	H crabbing arm		
6	1	Torch holder pin		
7	1	Indexable lever, M6x20		
8	2	Knurled screw, M6x16		
9	2	Wing screw, M6x16		
10	2	Countersunk screw, M6x16 A2 ISO 10642		
11	3	Washer, ø6 A2 ISO 7093		

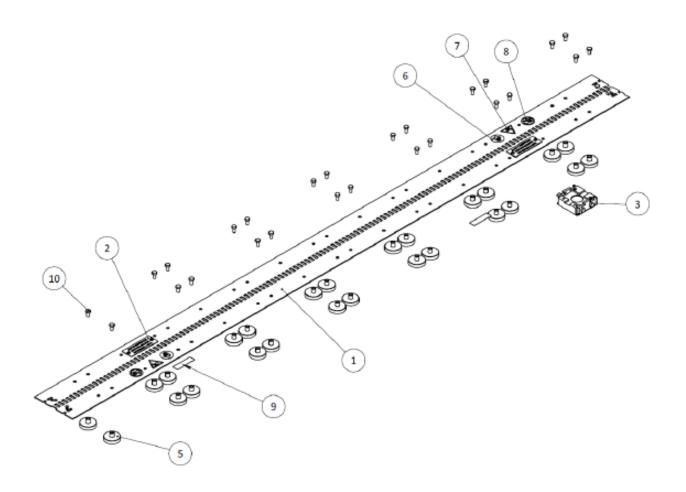
Order form:

~	normally held in stock.							
 ×	not in stock							
	upon request.							

Ref.	Part no	Stock	Order	Description
2	AS-PS-T0550130			Arc sensor with long cable
3	AS-PS-T0550131			Angular adjustment piece
4	Z91300124			Complete Ertalon torch holder mounted on Tee
	AS-PS-T0550004			Extraction torch holder
	AS-PS-T0550002			Innershield torch holder
5	Z91300122			Adjustment rule
6	AS-PS-T0550132			Adjustment piece support pin
7 (x2)	Z91300127			Zamac indexable levers, 25 mm
8 (x2)	W000275073			Fastening screw for torch holder unit
9 (x2)	Z91300128			Wing screw
12	W000401740		≜	Intermediate angular adjustment unit (without arc sensor)

• While ordering parts, please indicate the quantity and note the number of your machine in the box above.

		TYPE:
Matricule	J►	Number:



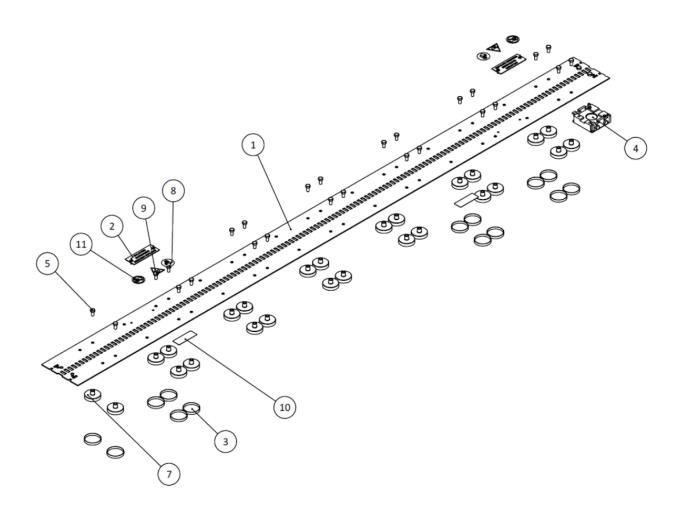
Ref.	Quantity	Description		
	1	Standard flexible magnetic rail, 1500 mm		
1	1	Rack rail		
2	2	Information label		
3	1	Fastening piece		
5	26	Magnet pad		
6	2	Protective gloves mandatory pictogram		
7	2	Hand crushing hazard pictogram		
8	2	No cardiac pacemaker pictogram		
9	2	Heat-sensitive label, 60-90°C		
10	28	Screw, M5x10 - Z8 - ISO4017		

Order form:

v	normally held in stock.
X	not in stock
	upon request.

Ref.	Part no	Stock	Order	Description
	AS-PP-T0550107			Standard flexible magnetic rail, 1500 mm
3	AS-PS-T0550120			Fastening piece
5 (x4) + 10 (x4)	AS-PS-T0550121			Magnetic pads
9 (x2)	AS-PS-T0550122		•	Heat-sensitive labels, 60-90°C

	►	TYPE:
Matricule] ►	Number:



Ref.	Quantity	Description		
	1	HT flexible magnetic rail, 1500 mm		
1	1	Rack rail		
2	2	Information label		
3	14	Magnet cap		
4	1	Fastening piece		
5	28	Screw, M5x10 - Z8 - ISO4017		
7	26	High temperature, ø32mm M5 tap		
8	2	Protective gloves mandatory pictogram		
9	2	Hand crushing hazard pictogram		
10	2	Heat-sensitive label, 161-204°C		
11	2	No cardiac pacemaker pictogram		

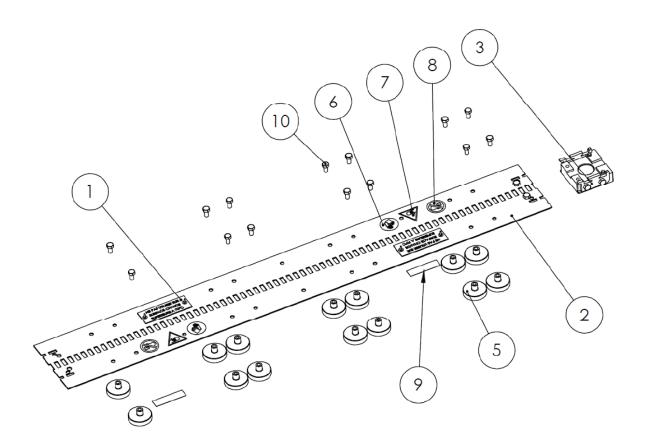
Order form:

·	normally held in stock.
(not in stock
	upon request.
1	\$

Ref.	Part no	Stock	Order	Description
	AS-PP-T0550110			HT flexible magnetic rail, 1500 mm
4	AS-PS-T0550120			Fastening piece
7(x4) + 3(x4) + 5(x4)	AS-PS-T0550123			HT magnetic pads
10 (x2)	AS-PS-T0550124		•	Heat-sensitive labels, 161-204°C

• While ordering parts, please indicate the quantity and note the number of your machine in the box above.

	>	TYPE:
Matricule		Number:



Ref.	Quantity	Description		
	1	Standard flexible magnetic rail, 750 mm		
1	2	Rail temp. information label		
2	1	Rack rail, 0.75 metres		
3	1	Fastening piece		
5	14	Magnet pad		
6	2	Protective gloves mandatory pictogram		
7	2	Hand crushing hazard pictogram		
8	2	No cardiac pacemaker pictogram		
9	2	Heat-sensitive label, 60-90°C		
10	16	Screw, M5x10 - Z8 - ISO4017		

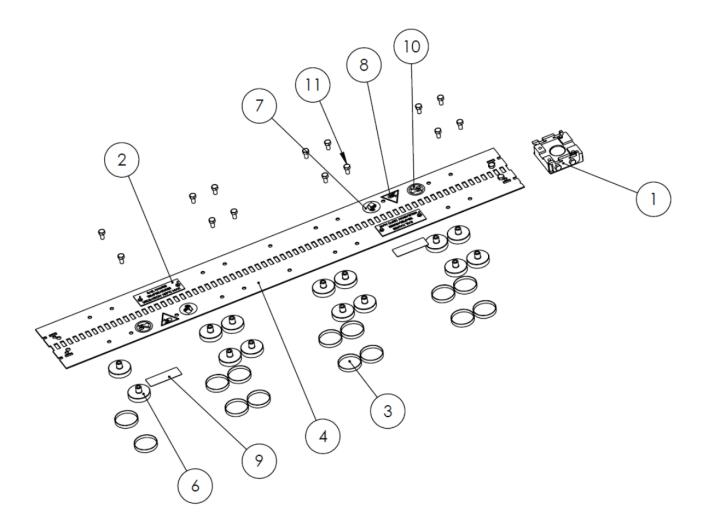
Order form:

	~	normally held in stock.
-[×	not in stock
Γ		upon request.

Ref.	Part no	Stock	Order	Description
	AS-PP-T0550108			Standard flexible magnetic rail, 750 mm
3	AS-PS-T0550120			Fastening piece
5 (x4) + 10 (x4)	AS-PS-T0550121			Magnetic pads
9 (x2)	AS-PS-T0550122		•	Heat-sensitive labels, 60-90°C

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CE Type	 TYPE:
Matricule	 Number:



Ref.	Quantity	Description	
	1	HT flexible magnetic rail, 750 mm	
1	1	Fastening piece	
2	2	Information label	
3	14	Magnet cap	
4	1	Rack rail, 0.75 metres	
6	14	High temperature, ø32mm M5 tap	
7	2	Protective gloves mandatory pictogram	
8	2	Hand crushing hazard pictogram	
9	2	Heat-sensitive label, 161-204°C	
10	2	No cardiac pacemaker pictogram	
11	16	Screw, M5x10 - Z8 - ISO4017	

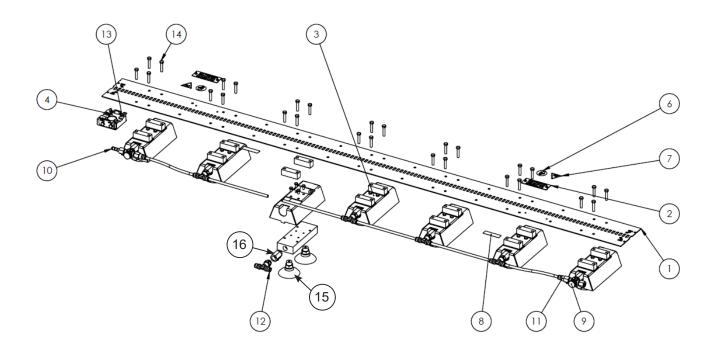
Order form:

<	normally held in stock.
 ×	not in stock
	upon request.

Ref.	Part no	Stock	Order	Description
	AS-PP-T0550111			HT flexible magnetic rail, 750 mm
1	AS-PS-T0550120			Fastening piece
6(x4) + 3(x4) + 11(x4)	AS-PS-T0550123			HT magnetic pads
9 (x2)	AS-PS-T0550124		•	Heat-sensitive labels, 161-204°C

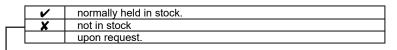
59

Matricule	 ──►	TYPE:
Matricule		Number:



Ref.	Quantity	Description		
	1	Pneumatic rail, 1500 mm		
1	1	Rack rail		
2	2	Information label		
3	7	Suction cup pod		
4	1	Fastening piece		
6	2	Protective gloves mandatory pictogram		
7	2	Hand crushing hazard pictogram		
8	2	Heat-sensitive label, 60-90°C		
9	2	Compression fitting, ø8 G1/4		
10	1	Hose connector, ø8 ø6		
11	2	Click-on reduction, ø6 ø8		
12	5	Centre Tee, male, ø6 G1/4		
13	2	Screw, M5X12 - Z8 - ISO4017		
14	28	Screw, M5X25 - A2 - ISO4017		
15	14	Suction cup		
16	7	Venturi fitting		

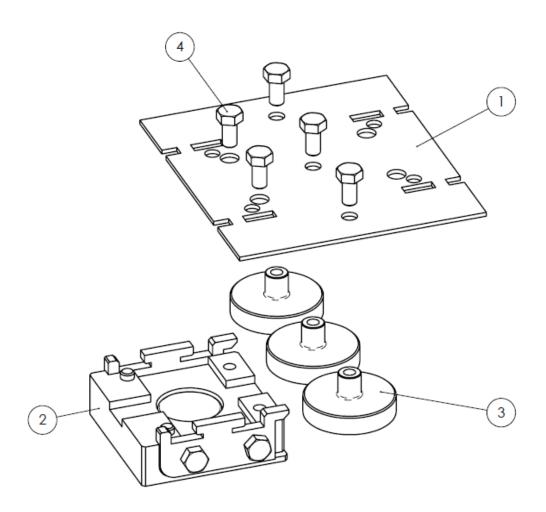
Order form:



Ref.	Part no	Stock	Order	Description
	AS-PP-T0550115			Pneumatic rail, 1500 mm
3	AS-PS-T0550125			Suction cup pod
4	AS-PS-T0550120			Fastening piece
8 (x2)	AS-PS-T0550122			Heat-sensitive labels, 60-90°C
9(x2) + 10 + 11(x2) + 12(x5)	AS-PS-T0550126			Set of pneumatic fittings
15 (x2)	AS-PS-T0550127			Suction cups
16	AS-PS-T0550128		•	Venturi fitting

• While ordering parts, please indicate the quantity and note the number of your machine in the box above.

	├─── ►	TYPE:
Matricule	├	Number:



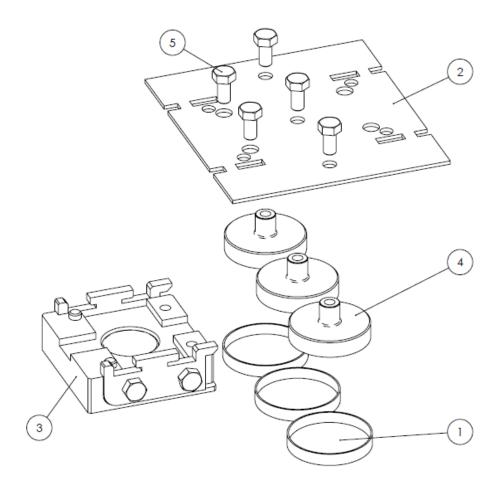
Ref.	Quantity	Description	
	1	Rail end magnet plate	
1	1	End plate	
2	1	Fastening piece	
3	3	Magnet pad	
4	5	Screw, M5x10 - Z8 - ISO4017	

Order form:

	~	normally held in stock.
_	X	not in stock
		upon request.

Ref.	Part no	Stock	Order	Description
	AS-PP-T0550109			Rail end magnet plate
2	AS-PS-T0550120			Fastening piece
3(x4) + 4(x4)	AS-PS-T0550121			Magnetic pads

	── ►	TYPE:
Matricule]►	Number:



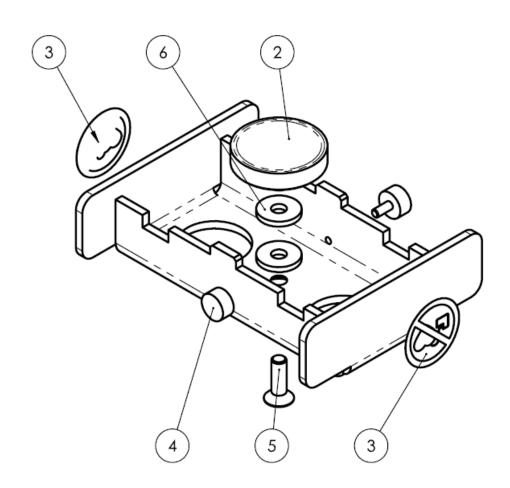
Ref.	Quantity	Description	
	1	HT rail end magnet plate	
1	3	Magnet cap	
2	1	End plate	
3	1	Fastening piece	
4	3	High temperature, ø32mm M5 tap	
5	5	Screw, M5x10 - Z8 - ISO4017	

Order form:

~	normally held in stock.
X	not in stock
	upon request.

Ref.	Part no	Stock	Order	Description
	AS-PP-T0550112			HT rail end magnet plate
3	AS-PS-T0550120			Fastening piece
4(x4) + 1(x4) + 5(x4)	AS-PS-T0550123		•	HT magnetic pads

	├	TYPE:
Matricule	│ ───►	Number:



Ref.	Quantity	Description	
	1	Rail stop (set of 2)	
2	1	High temperature, ø32mm M5 tap	
3	2	No cardiac pacemaker pictogram	
4	2	Encapsulated magnet, ø10M3	
5	1	Countersunk screw, M5x16 - A2 - ISO10642	
6	2	Washer, ø5 - A2 - ISO7093	

Order form:

v	normally held in stock.
X	not in stock
	upon request.

Ref.	Part no	Stock	Order	Description
	AS-PP-T0550113			Rail stop (set of 2)
2 (x4)	AS-PS-T0550123			HT magnetic pads
4 (x4)	AS-PS-T0550129			Magnets

	►TYPE:
Matricule	Number:

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