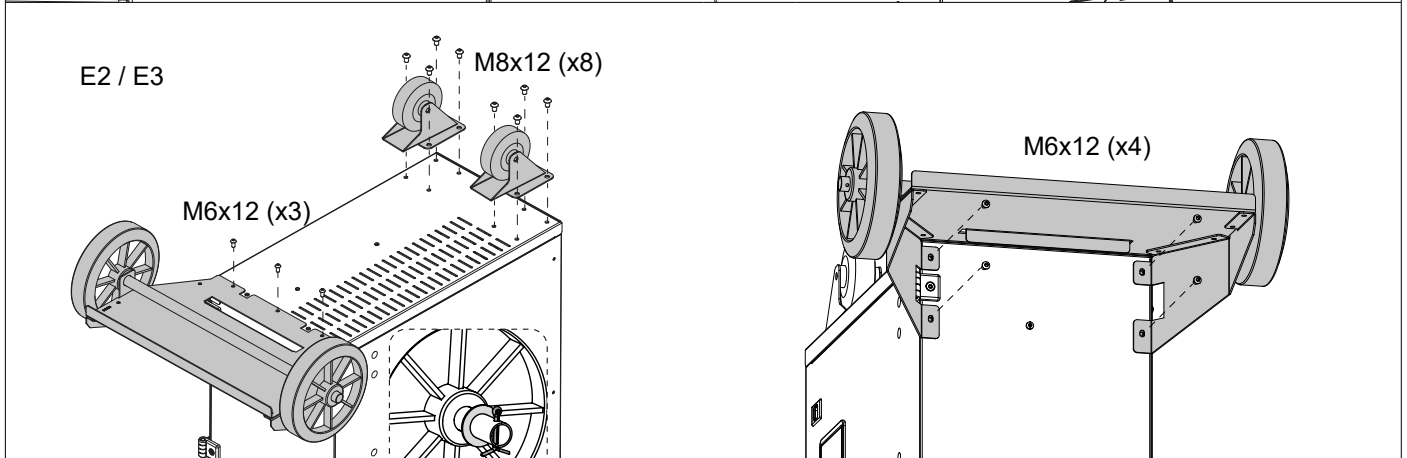
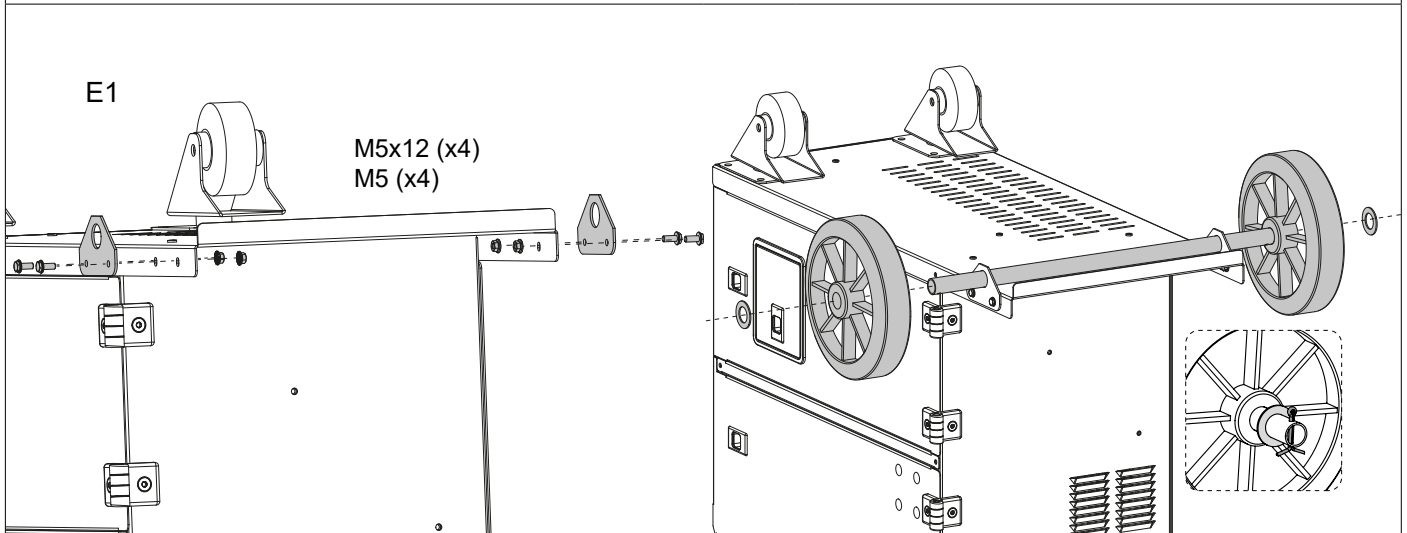
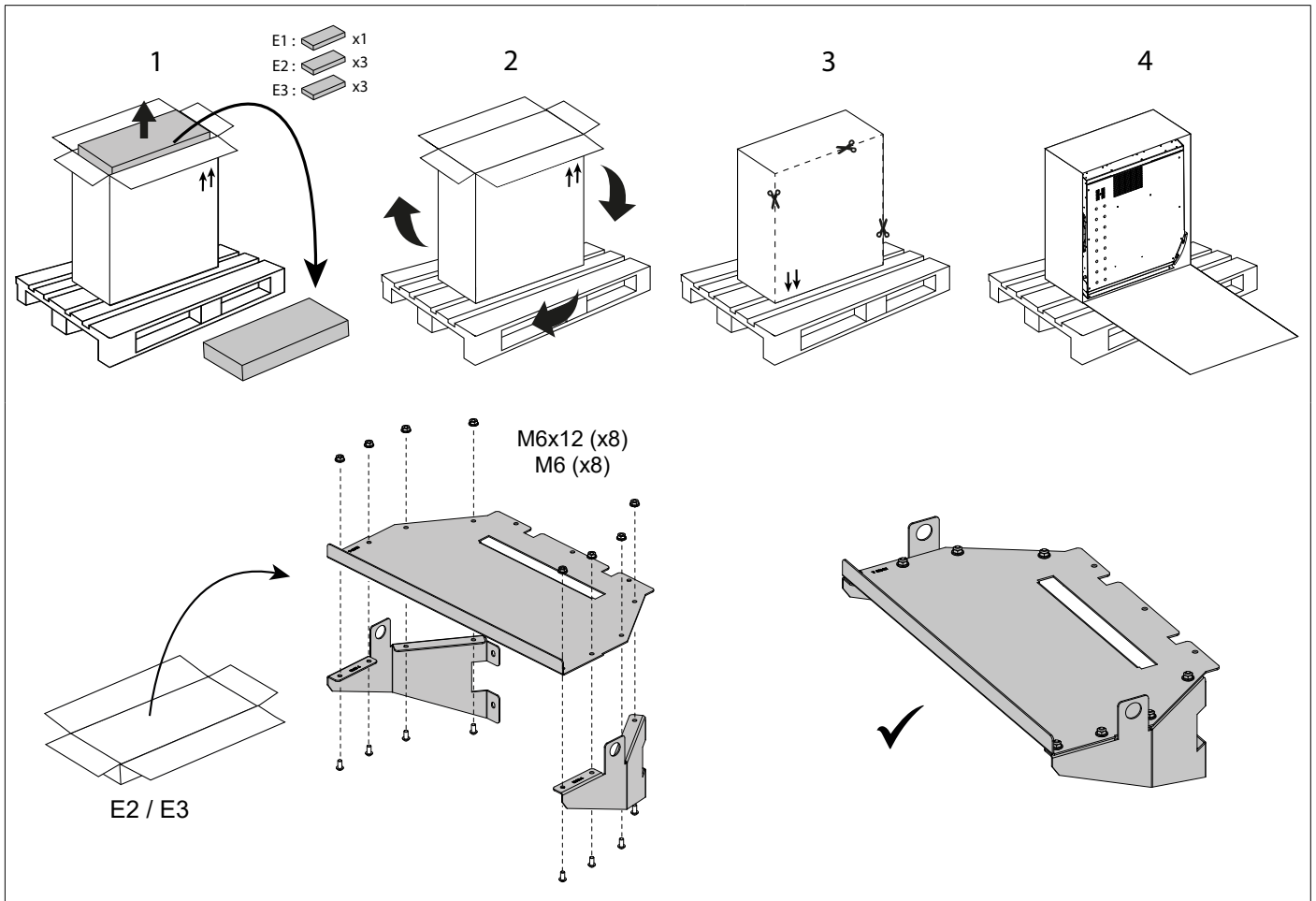
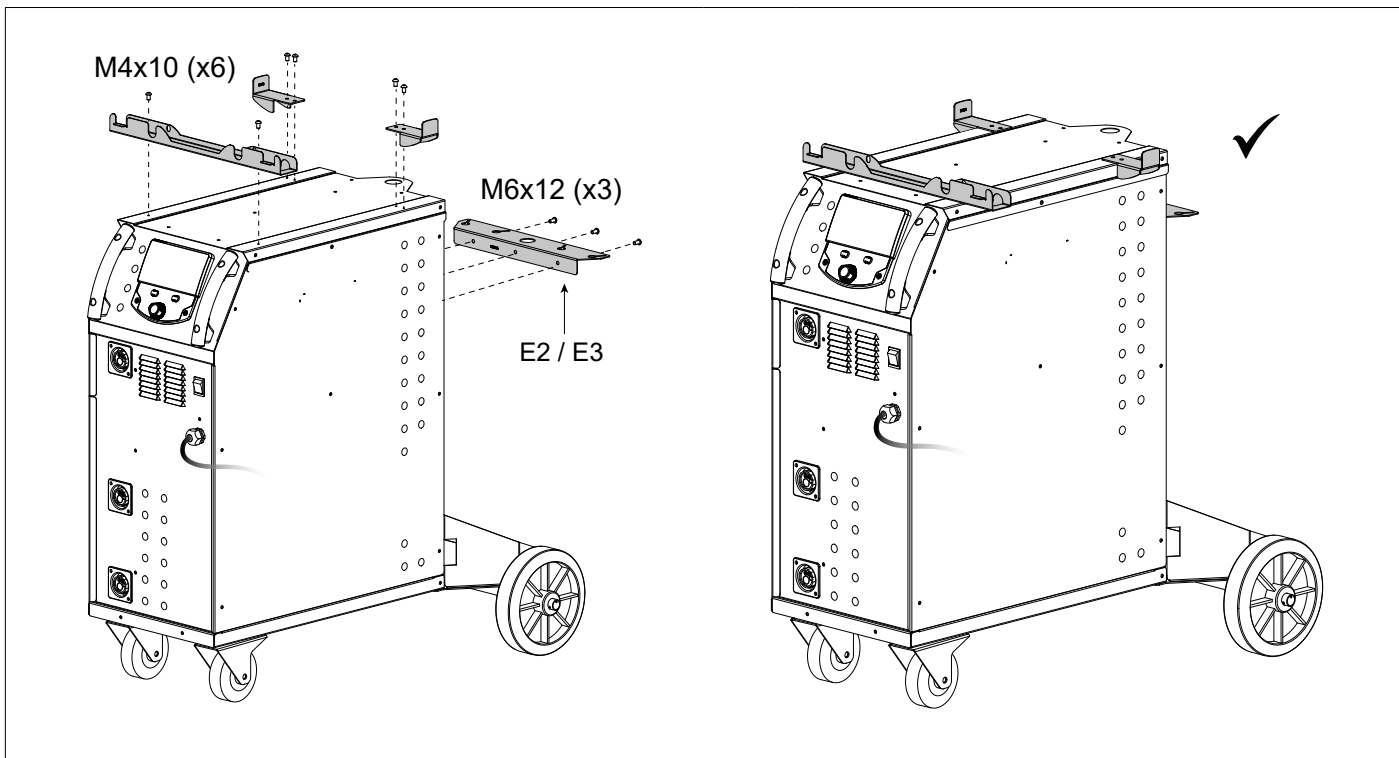


FR	02-07 / 08-17 / 88-100
EN	02-07 / 18-27 / 88-100
DE	02-07 / 28-37 / 88-100
ES	02-07 / 38-47 / 88-100
RU	02-07 / 48-57 / 88-100
NL	02-07 / 58-67 / 88-100
IT	02-07 / 68-77 / 88-100
PL	02-07 / 78-87 / 88-100

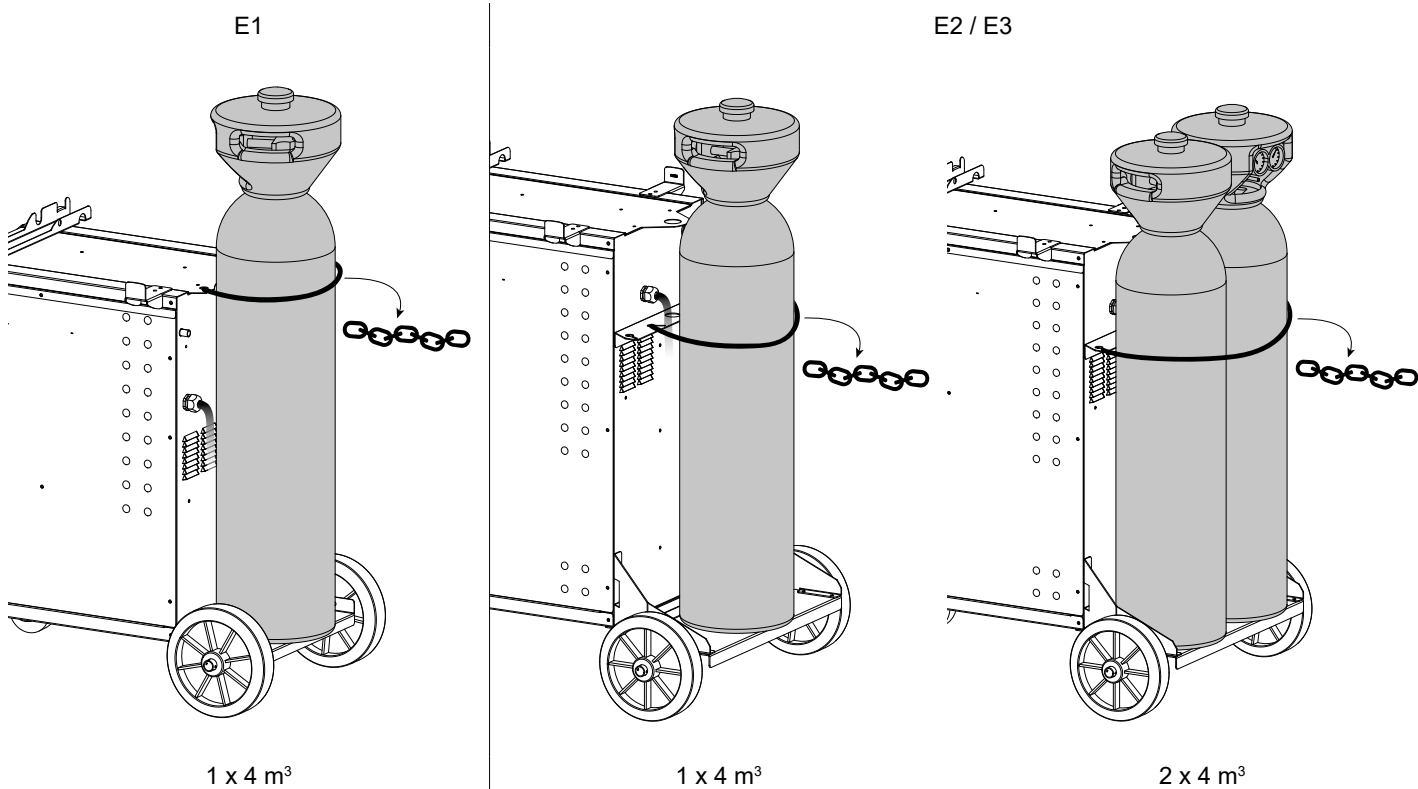
E1 / E2 / E3 GYS AUTO

Générateur MIG/MAG
MIG/MAG welding machine
Schweissgerät für MIG/MAG
Equipo de soldadura MIG/MAG
Сварочный аппарат МИГ/МАГ
MIG/MAG lasapparaat
Dispositivo saldatura MIG/MAG





**SUPPORT BOUTEILLE / BOTTLE SUPPORT / FLASCHENHALTER / PORTABOTELLAS / FLESENHOU-
DER / PORTABOTTIGLIE**



POTENCE SEULE / BALANCING ARM ONLY / AUSLEGER / SOPORTE SOLO / КРОНШТЕЙН / STEUN ALLEEN / BRACCIO DI SOSTEGNO SINGOLO | 077300

M6x12



x 25

M6x40



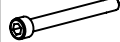
x 3

M6



x 3

M6x40

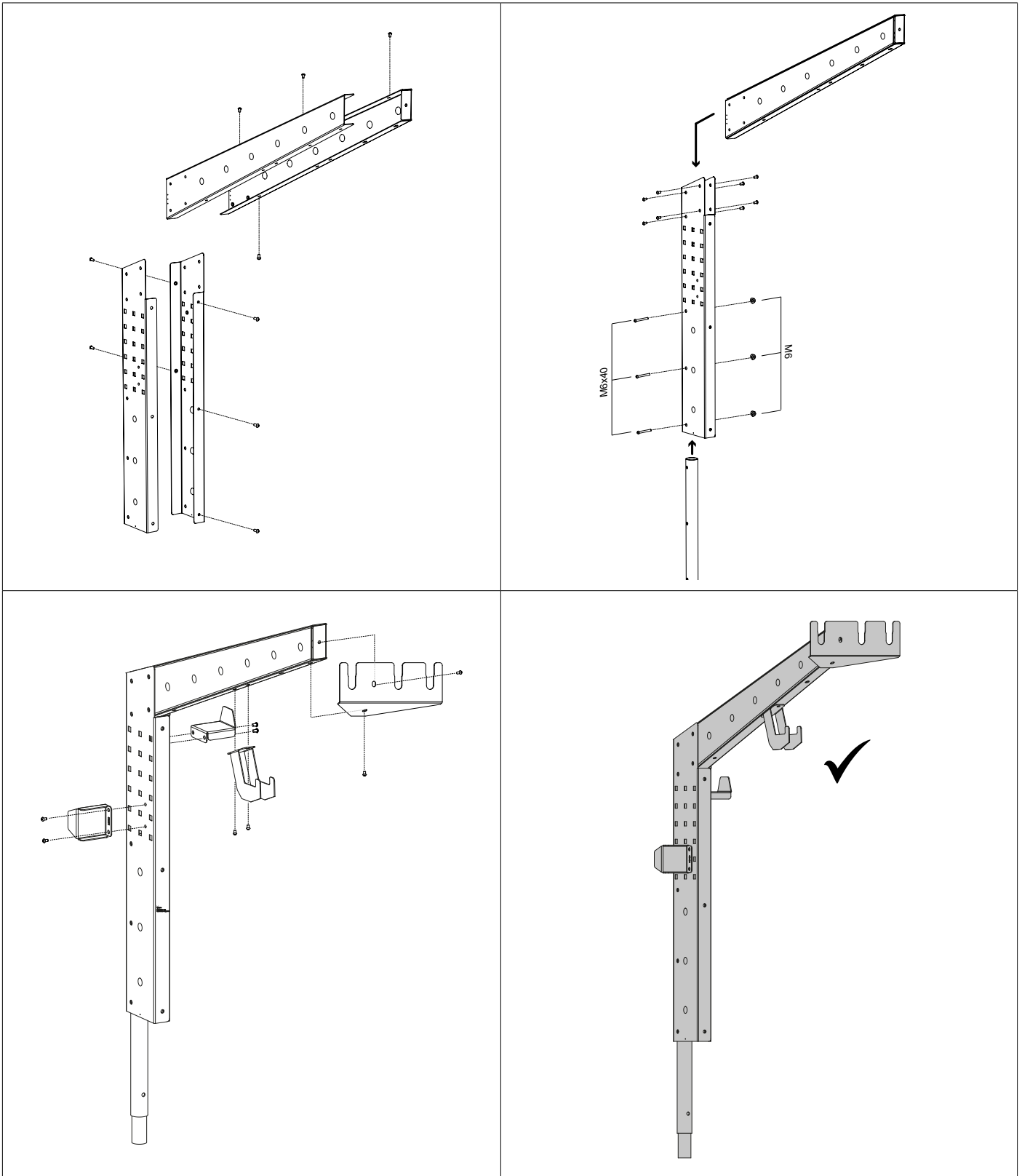


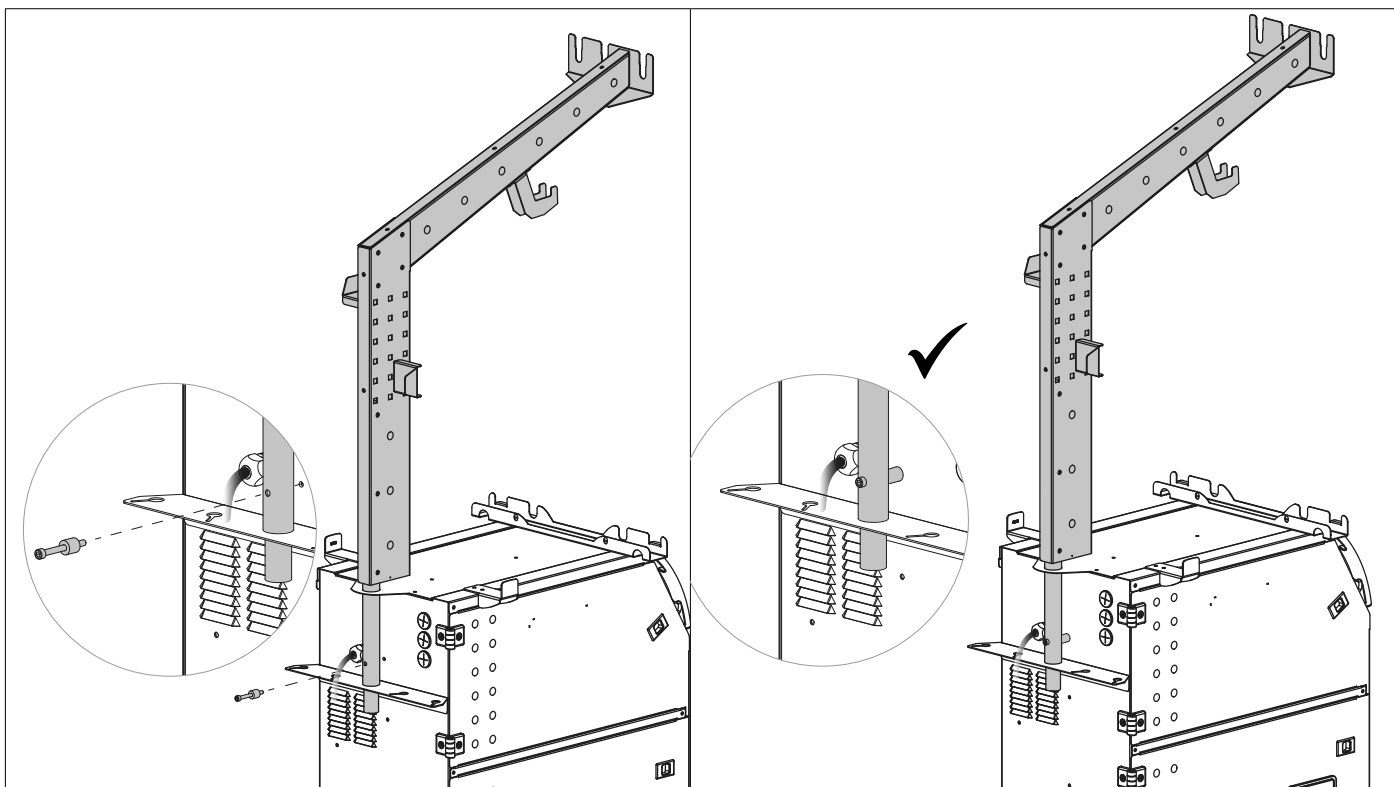
x 1



x 1

E2 / E3

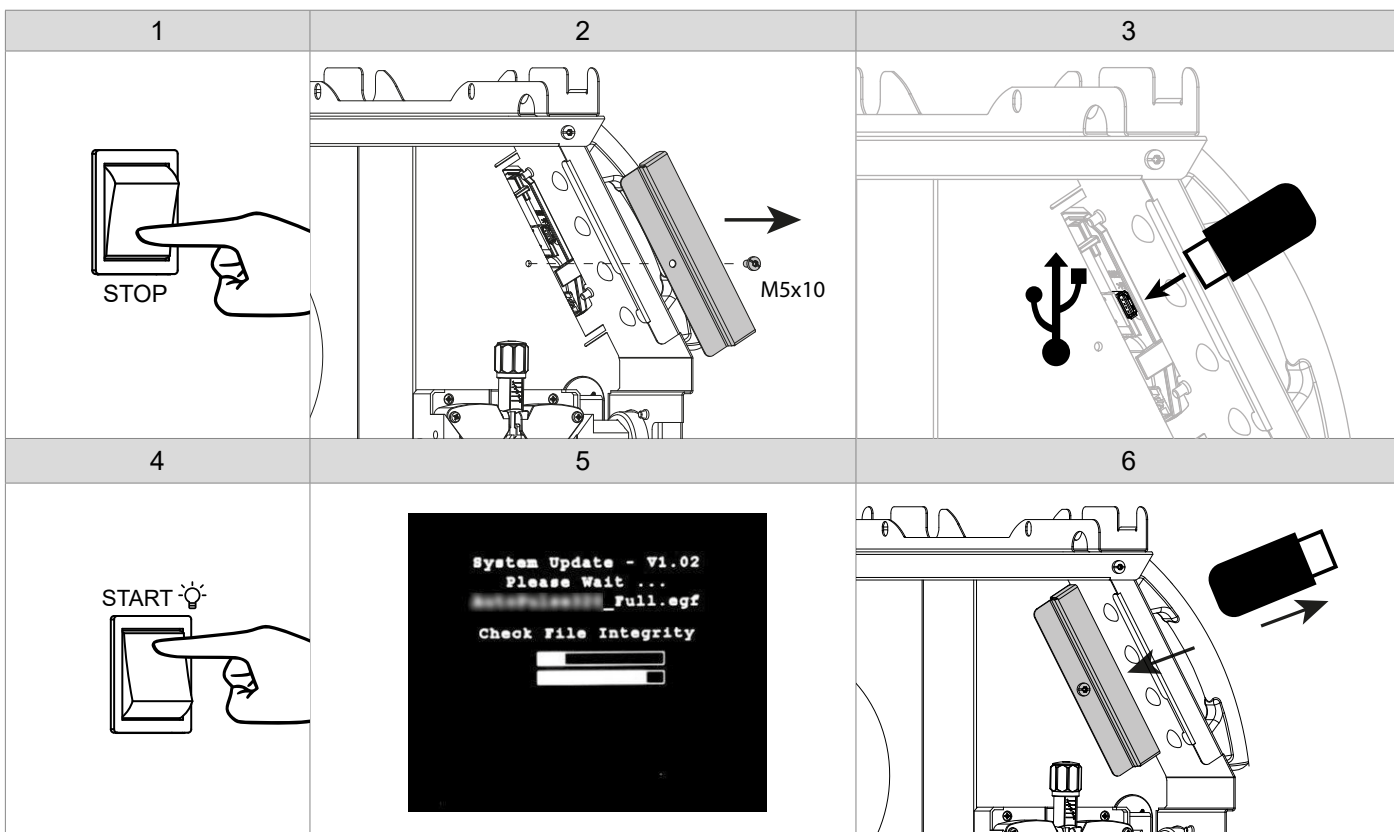




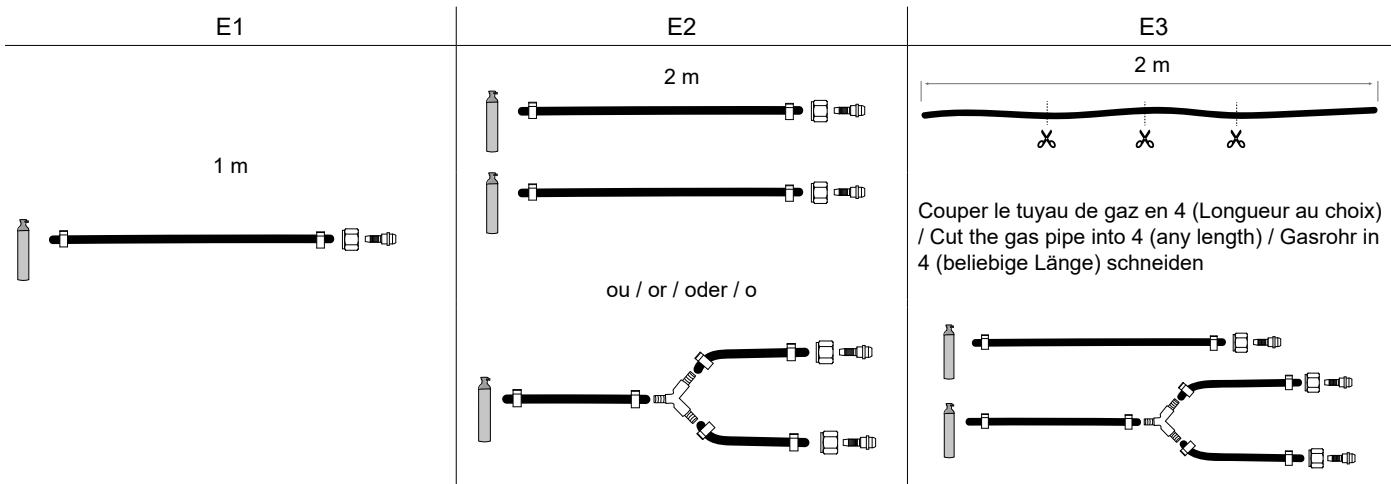
PROCÉDURE DE MISE À JOUR / UPDATE PROCEDURE

Clé USB non fournie / USB key not included.

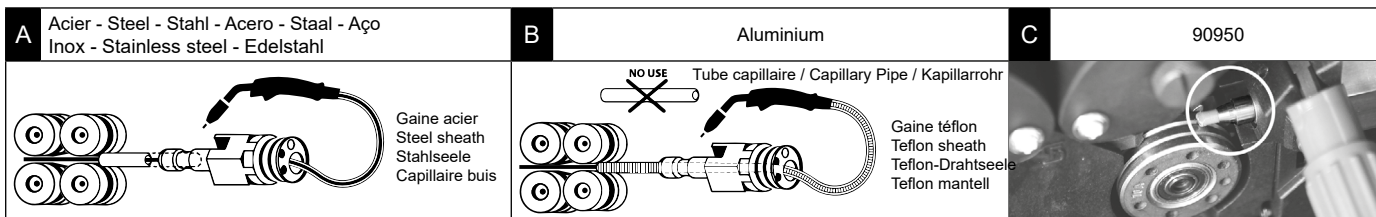
Logiciel de mise à jour disponible sur le site GYS, partie S.A.V. / Update software available on the GYS website, After sales section.



RACCORD GAZ / GAS FITTINGS / GASANSCHLUSS / CONEXIÓN DE GAS / ГАЗОВОЕ СОЕДИНЕНИЕ / GAS AANSLUITING / COLLEGAMENTO GAS

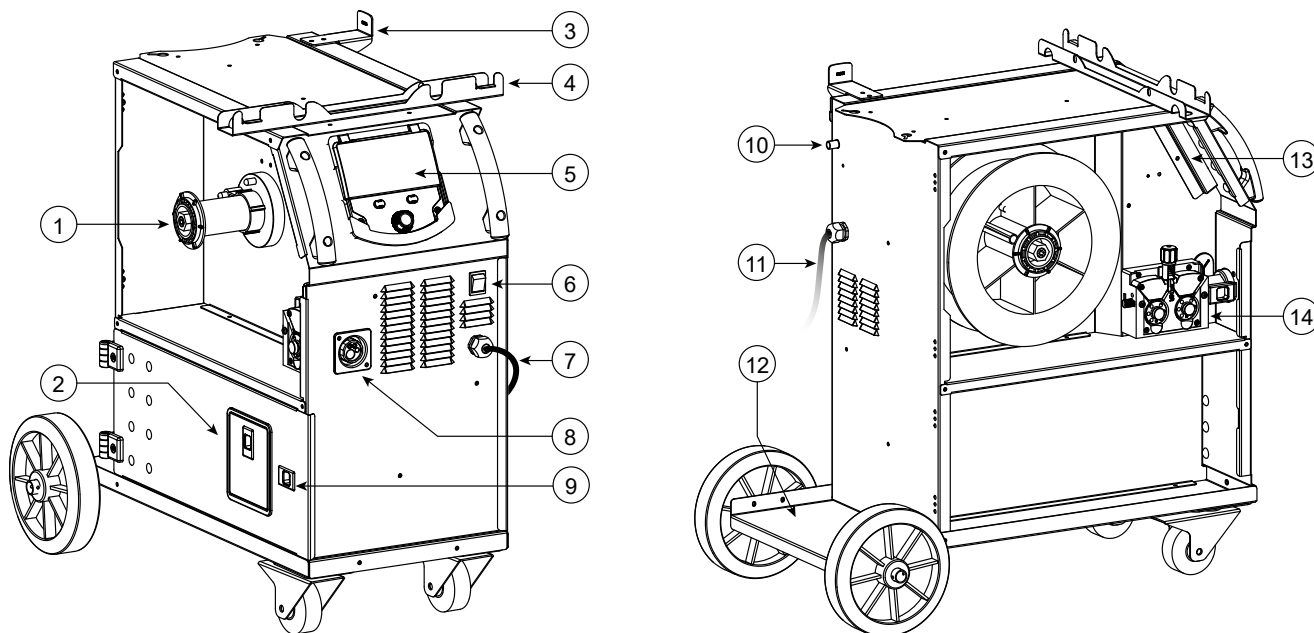


I

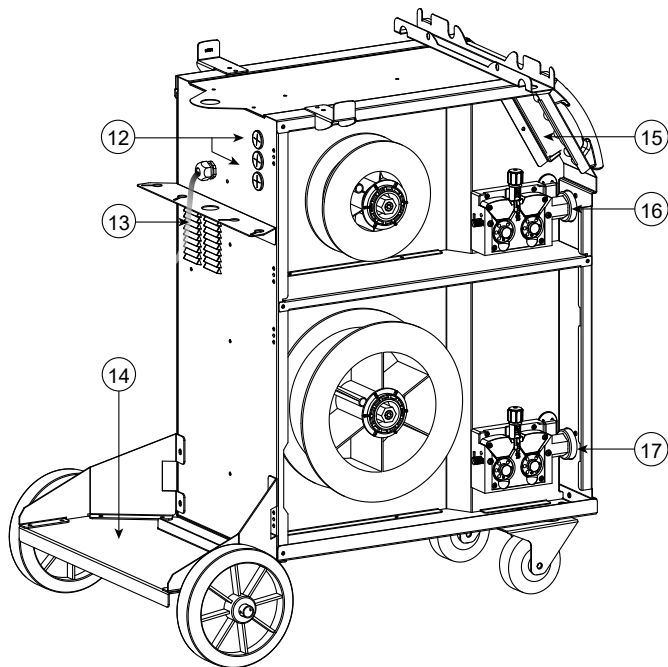
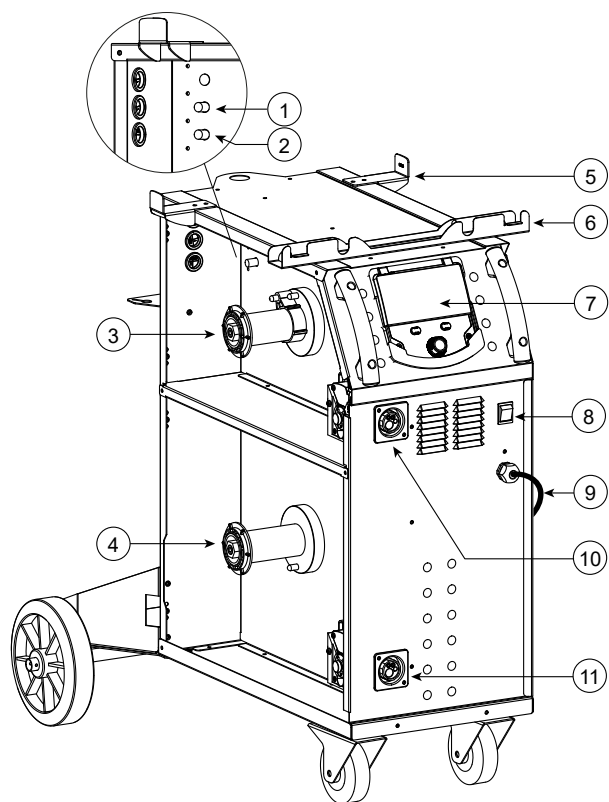


II

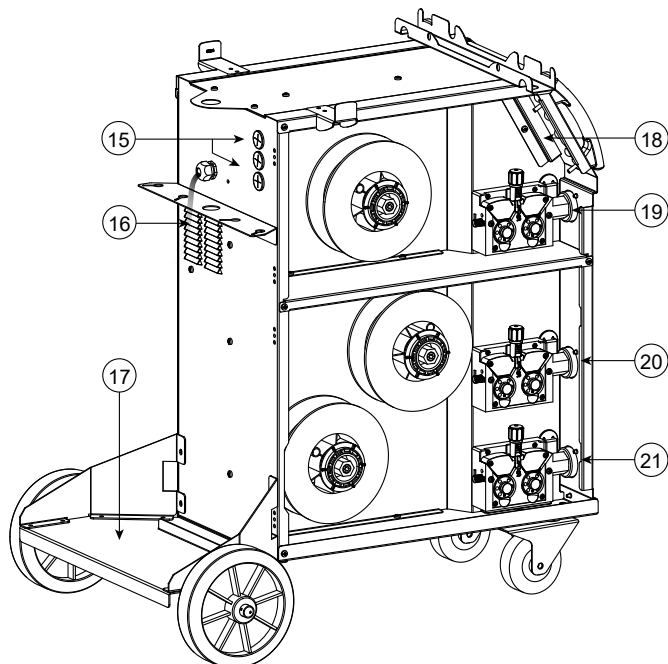
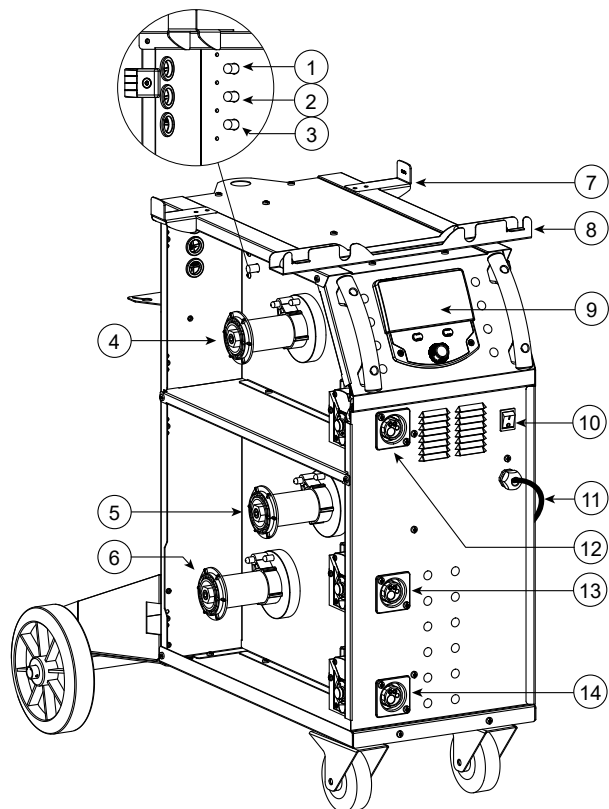
E1



E2



E3



WARNINGS - SAFETY INSTRUCTIONS

GENERAL INSTRUCTIONS



These instructions must be read and fully understood before use.

Do not undertake any alterations or maintenance work that is not directly specified in this manual.

The manufacturer shall not be liable for any damage to persons or property resulting from use not in accordance with the instructions in this manual. In case of problems or queries, please consult a qualified tradesperson to correctly install the product.

ENVIRONMENT

This equipment should only be used for welding operations performed within the limits indicated on the information panel and/or in this manual. These safety guidelines must be observed. The manufacturer cannot be held responsible in the event of improper or dangerous use.

The machine must be set up somewhere free from dust, acid, flammable gases or any other corrosive substances. This also applies to the machine's storage. Ensure good air circulation when in use.

Temperature range:

Use between -10 and +40°C (+14 and +104°F).

Store between -20 and +55°C (-4 and 131°F).

Air humidity:

Lower than or equal to 50% at 40°C (104°F).

Lower than or equal to 90% at 20°C (68°F).

Altitude:

Up to 1,000m above sea level (3,280 feet).

PROTECTING YOURSELF AND OTHERS

Arc welding can be dangerous and cause serious injury or death.

Welding exposes people to a dangerous source of heat, light radiation from the arc, electromagnetic fields (caution to those using pacemakers) and risk of electrocution, as well as noise and fumes.

To protect yourself and others, please observe the following safety instructions:



To protect yourself from burns and radiation, wear insulating, dry and fireproof clothing without lapels. Ensure the clothing is in good condition and that covers the whole body.



Wear gloves that ensure electrical and thermal insulation.



Use welding protection and/or a welding helmet with a sufficient level of protection (depending on the specific use). Protect your eyes during cleaning operations. Contact lenses are specifically forbidden.

It may be necessary to section off the welding area with fireproof curtains to protect the area from arc radiation and hot spatter. Inform people in the welding area not to stare at the arc rays or molten parts and to wear appropriate clothing for protection.



Wear noise protection headphones if the welding process becomes louder than the permissible limit (this is also applicable to anyone else in the welding area).

Keep hands, hair and clothing away from moving parts (the ventilation fan, for example).

Never remove the cooling unit housing protections when the welding power source is live, the manufacturer cannot be held responsible in the event of an accident.



The newly welded parts are hot and can cause burns when handled. When maintenance work is carried out on the torch or electrode holder, ensure that it is sufficiently cold by waiting at least 10 minutes before carrying out any work. The cooling unit must be switched on when using a water-cooled torch to ensure that the liquid cannot cause burns.

It is important to secure the work area before leaving it in order to protect people and property.

WELDING FUMES AND GAS



The fumes, gases and dusts emitted by welding are harmful to health. Sufficient ventilation must be provided and an additional air supply may be required. An air-fed mask could be a solution in situations where there is inadequate ventilation.

Check the extraction system's performance against the relevant safety standards.

Caution: Welding in confined spaces requires safety monitoring from a safe distance. In addition, the welding of certain materials containing lead, cadmium, zinc, mercury or even beryllium can be particularly harmful. Remove any grease from the parts before welding.

Cylinders should be stored in open or well-ventilated areas. They should be stored in an upright position and kept on a stand or trolley. Welding should not be carried out near grease or paint.

RISK OF FIRES AND EXPLOSIONS



Fully shield the welding area, flammable materials should be kept at least 11 metres away. Fire fighting equipment should be kept close to wherever the welding activities are being undertaken.

Beware the expulsion of hot spatter or sparks, even through cracks, which can cause fires or explosions.

Keep people, flammable objects and pressurised containers at a safe distance.

Welding in closed containers or tubes is to be avoided. If the containers or tubes are open, they must be emptied of all flammable or explosive materials (oil, fuel, gas residues, etc.).

Grinding work must not be directed towards the source of the welding current or towards any flammable materials.

GAS CYLINDERS



Gas escaping from cylinders can cause suffocation if there is too high a concentration of it in the welding area (ensure good ventilation).

The machine must be transported in complete safety: gas cylinders must be closed and the welding power source turned off. They should be stored upright and supported to limit the risk of falling.

Close the cylinder between uses. Beware of temperature changes and sun exposure.

The cylinder must not come into contact with flames, arcs, torches, earth clamps or any other sources of heat or ignition.

Be sure to keep it away from electrical and welding circuits. Never weld a pressurised cylinder.

When opening the cylinder valve, keep your head away from the valve and ensure that the gas being used is suitable for the welding process.

ELECTRICAL SAFETY



The electrical network used must be earthed. Use the recommended fuse size chosen from the information table. An electric shock can be the source of a serious accident, whether directly or indirectly, or even death.

Never touch live parts connected to the live current, either inside or outside the power source casing unit (torches, clamps, cables, electrodes), as these items are connected to the welding circuit.

Before opening the welding machine's power source, disconnect it from the mains and wait two minutes to ensure that all the capacitors have fully discharged.

Do not touch the torch or the electrode holder and the earth clamp at the same time.

If the cables or torches become damaged, they must be replaced by a qualified and authorised person. Measure the length of cable according to its use. Always use high-quality, dry clothing to insulate yourself from the welding circuit. Alongside this, wear well-insulated footwear in all working environments.

EMC CLASSIFICATION

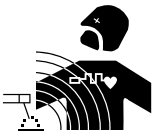


This Class A equipment is not intended for domestic use where electrical power is supplied from the low-voltage mains system. Ensuring electromagnetic compatibility may be difficult at these sites due to conducted, as well as radiated, radio frequency interference.

This equipment complies with IEC 61000-3-11.

This equipment complies with the IEC 61000-3-12 standard.

ELECTROMAGNETIC INTERFERENCES



An electric current passing through any conductor produces localised electric and magnetic fields (EMF). The welding current produces an electromagnetic field around the welding circuit and the welding equipment.

Electromagnetic fields (EMFs) can interfere with some medical devices, for example pacemakers. Protective measures should be taken for those with medical, implanted devices. For example, restricted access for onlookers or an individual risk assessment for welders.

All welders should use the following guidelines to minimise exposure to the welding circuit's electromagnetic fields:

- position the welding cables together - securing them with a clamp if possible;
- position yourself (head and body) as far away from the welding circuit as possible,
- never wrap the welding cables around your body,
- do not position yourself between the welding cables and keep both welding cables on your same side,
- connect the return cable to the workpiece, as close as possible to the area to be welded,
- do not work next to, sit or lean on the source of the welding current,
- do not weld while transporting the source of the welding current or wire feeder.



Pacemaker users should consult a doctor before using this equipment.
Exposure to electromagnetic fields during welding may have other health effects that are not yet known.

RECOMMENDATIONS FOR ASSESSING THE WELDING AREA AND EQUIPMENT

General Information

It is the user's responsibility to install and use the arc welding equipment according to the manufacturer's instructions. If electromagnetic disturbances are detected, it is the user's responsibility to resolve the situation using the manufacturer's technical support. In some cases, this corrective action may be as simple as earthing the welding circuit. In other cases, it may be necessary to construct an electromagnetic shield around the welding current source and around the entire workpiece by setting up input filters. In any case, electromagnetic interference should be reduced until it is no longer an inconvenience.

Assessing the welding area

Before installing arc welding equipment, the user should assess the potential electromagnetic problems in the surrounding area. The following should be taken into account:

- a) the presence of power, control, signal and telephone cables above, below and next to the arc welding equipment,
- b) radio and television receivers and transmitters,
- c) computers and other control equipment,
- d) critical safety equipment, e.g. the protection of industrial equipment,
- e) the health of nearby persons, e.g. those using of pacemakers or hearing aids,
- f) the equipment used for calibrating or measuring,
- g) the protection of other surrounding equipment.

The operator has to ensure that the devices and equipment used in the same area are compatible with each other. This may require further protective measures;

- h) the time of day when welding or other activities are to take place.

The size of the surrounding area to be taken into account will depend on the building's structure and the other activities taking place there. The surrounding area may extend beyond the boundaries of the premises.

Assessment of the welding equipment

In addition to the assessment of the surrounding area, the arc welding equipment's assessment can be used to identify and resolve cases of interference. It is appropriate that the assessment of any emissions should include in situ procedures as specified in Article 10 of CISPR 11. In situ procedures can also be used to confirm the effectiveness of mitigation measures.

GUIDELINES ON HOW TO REDUCE ELECTROMAGNETIC EMISSIONS

a. The mains power grid: Arc welding equipment should be connected to the mains power grid according to the manufacturer's recommendations. If any interference occurs, it may be necessary to take additional precautionary measures such as filtering the mains power supply. Consider protecting the power cables of permanently installed, arc welding equipment within a metal pipe or a similar casing. The power cable should be protected along its entire length. The protective casing should be connected to the welding machine's power source to ensure good electrical contact between the protective pipeline and the welding machine's power source housing.

b. The maintenance of arc welding equipment: Arc welding equipment should be subject to routine maintenance as recommended by the manufacturer. All access points, service openings and bonnets should be closed and properly locked when the arc welding equipment is in use. The arc welding equipment should not be modified in any way, except for those modifications and adjustments mentioned in the manufacturer's instructions. The spark gap of arc starters and stabilisers should be adjusted and maintained according to the manufacturer's recommendations.

c. Welding cables: Cables should be as short as possible, placed close together either near or on the ground.

d. Equipotential bonding: Consideration should be given to the joining of all metal objects in the surrounding area. However, metal objects connected to the workpiece increase the risk of electric shocks to the user if they touch both these metal parts and the electrode. The user should be isolated from such metal objects.

e. Earthing the workpiece: In cases where the part to be welded is unearthed for electrical safety reasons or due to its size and location, such as ship hulls or structural steel buildings, an earthed connection can reduce emissions in some cases, although not always. Care should be taken to avoid the earthing of parts which could increase the risk of injury to users or damage to other electrical equipment. If necessary, the workpiece's connection should be earthed directly, but in some countries where a direct connection is not allowed, the connection should be made with a suitable capacitor chosen according to national regulations.

f. Protection and protective casing: The selective protection and encasing of other cables and equipment in the surrounding area may limit interference problems. The safeguarding of the entire welding area may be considered for special applications.

THE TRANSPORTING AND MOVING OF THE MACHINE'S POWER SOURCE



Do not use the cables or torch to move the welding power source. It should be moved in an upright position.
Do not carry or transport the power source overhead of people or objects.

Never lift a gas cylinder and the welding power source at the same time. Their transportation requirements are different.
It is advisable to remove the wire spool before lifting or transporting the welding power source.

SETTING UP THE EQUIPMENT

- Place the welding power source on a floor with a maximum inclination of 10°.
- Provide sufficient space to ventilate the welding power source and access the controls.
- Do not use in an area with conductive metal dust.
- The welding power source should be protected from heavy rain and not exposed to direct sunlight.
- The machine benefits from an IP21 protection index, which means:
 - its dangerous parts are protected from being entered by objects greater than 12.5 mm and,
 - Protection against vertically falling drops



Stray welding currents can destroy earthing conductors, damage electrical equipment and devices and cause component parts to overheat leading to fires.

- All welding connections must be firmly secured and regularly checked!
- Make sure that the item's attachment is firm and secure, without any electrical problems!
- Join together or suspend any electrically conductive parts of the welding source such as the frame, trolley and lifting systems so that they are insulated!
- Do not place other equipment such as drills or grinding devices etc. on the welding source, trolley, or lifting systems unless they are insulated!
- Always place welding torches or electrode holders on an insulated surface when not in use!

Power cables, extension cables and welding cables should be fully unwound to avoid overheating.



The manufacturer assumes no responsibility for damage to persons or objects caused by improper and dangerous use of this equipment.

MAINTENANCE / RECOMMENDATIONS



- Maintenance should only be carried out by a qualified person. Annual maintenance is recommended.
- Switch off the power supply by pulling the plug and wait two minutes before working on the equipment.. Inside the machine, the voltages and currents are high and dangerous.

- Regularly remove the cover and blow out any dust. Take advantage of the opportunity to have the electrical connections checked with an insulated tool by a qualified professional.
- Regularly check the condition of the power cord. If the power cable is damaged, it must be replaced by the manufacturer, the after sales service team or an equally qualified person to avoid any danger.
- Leave the welding power source vents free for air intake and outflow.
- Do not use this welding power source for thawing pipes, recharging batteries/storage batteries or starter motors.

INSTALLATION - USING THE PRODUCT

Only experienced personnel, authorised by the manufacturer, may carry out the machine's set-up. During set-up, ensure that the power source is unplugged from the mains. Series or parallel power source connections are not allowed. It is recommended to use the welding cables supplied with the unit in order to obtain the optimum product settings.

DESCRIPTION

The unit is a semi-automatic «synergic» welding unit, ventilated for welding (MIG or MAG). This machine is recommended for welding steel, stainless steel, aluminium and the brazing. Its adjustment is quick and easy with its «synergic» mode.

DESCRIPTION OF THE EQUIPMENT (II)

E1

- | | |
|-------------------------------|----------------------------|
| 1- Reel support Ø 200/300 mm | 8- Euro connector (torche) |
| 2- Accessory box hatch | 9- Storage space |
| 3- Cable support | 10- Gas connector |
| 4- Torch support | 11- Mains cable (6.25 m) |
| 5- HMI | 12- Bottle holder 4 m3 |
| 6- START/STOP switch | 13- USB hatch |
| 7- Ground clamp cable (3.5 m) | 14- Wire-feed motor |

E2

- | | |
|--|------------------------------------|
| 1- Gas connector (torch 1) | 10- Euro connector (torch 1) |
| 2- Gas connector (torch 2) | 11- Euro connector (torch 2) |
| 3- Reel support Ø 200 mm (torch 1) | 12- Bulkhead connector for gas |
| 4- Reel support Ø 200/300 mm (torch 2) | 13- Mains cable (6.25 m) |
| 5- Cable support | 14- Bottle holder 4 m3 or 2 x 4 m3 |
| 6- Torch support | 15- USB hatch |
| 7- HMI | 16- Wire-feed motor (torch 1) |
| 8- START/STOP switch | 17- Wire-feed motor (torch 2) |
| 9- Ground clamp cable (3.5 m) | |

E3

- | | |
|------------------------------------|------------------------------------|
| 1- Gas connector (torch 1) | 11- Ground clamp cable (3.5 m) |
| 2- Gas connector (torch 2) | 12- Euro connector (torch 1) |
| 3- Gas connector (torch 3) | 13- Euro connector (torch 2) |
| 4- Reel support Ø 200 mm (torch 1) | 14- Euro connector (torch 13) |
| 5- Reel support Ø 200 mm (torch 2) | 15- Bulkhead connector for gas |
| 6- Reel support Ø 200 mm (torch 3) | 16- Mains cable (6.25 m) |
| 7- Cable support | 17- Bottle holder 4 m3 or 2 x 4 m3 |
| 8- Torch support | 18- USB hatch |
| 9- HMI | 19- Wire-feed motor (torch 1) |
| 10- START/STOP switch | 20- Wire-feed motor (torch 2) |
| | 21- Wire-feed motor (torch 3) |

HUMAN-MACHINE INTERFACE (HMI)**HMI**

Please read the Interface (HMI) manual which is part of the equipment's user literature.

POWER SWITCH

The material is supplied with a 16A plug type CEE7/7 and must only be used on a single-phase electrical installation 230V (50-60 Hz) with 3 wires including one connected to earth.

The absorbed effective current (I_{1eff}) is shown on the device for optimum operating conditions. Check that the power supply and its safeguards (fuse and/or circuit breaker) are compatible with the electric current being used. In some countries, it may be necessary to change the plug to allow the use at maximum settings.

- The power source is designed to operate on 230 V -20% +15%. The machine goes into protection mode if the supply voltage is below 185 Veff or above 265 Veff. (an error code will appear on the display screen).
- The power is switched on by pressing the START/STOP switch (On), conversely switching off is done by pressing the same switch (Off). **Warning!** **Never disconnect the machine from the power supply while the machine is charging.**

CONNECTING TO A POWER SOURCE

This equipment can be operated with electric generators provided that the auxiliary power supply meets the following requirements:

- The voltage must be alternating, and the RMS value must be 230 V -20% +15%, with peak voltage below 400V,
- The frequency must be between 50 and 60 Hz.

It is imperative to check these requirements, as many generators generate high voltage peaks that can damage these machines.

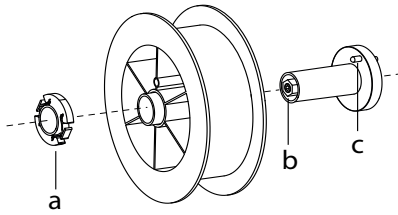
USING EXTENSION LEADS

All extension leads must be of a suitable length and width that is appropriate to the equipment's voltage. Use an extension lead that complies with national safety regulations.

Input voltage	Extension lead cross section (<45m)
230 V	2.5 mm ²

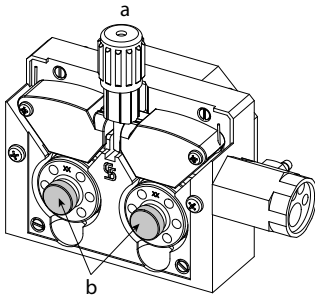
SETTING UP THE REEL

- Remove the nozzle (a) and contact tube (b) from your MIG/MAG torch.



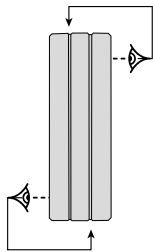
- Open the power source's hatch.
- Position the reel on its holder.
 - Take into consideration the reel stands's drive lug (c). To fit a 200 mm reel, tighten the plastic reel holder (a) to the maximum.
 - Adjust the brake wheel (b) to prevent the non-moving spool from tangling the wire when the welding stops. Do not over tighten as this will cause the power source to overheat.

LOADING THE FILLER WIRE



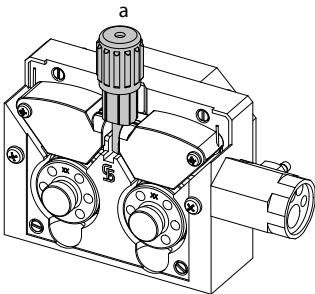
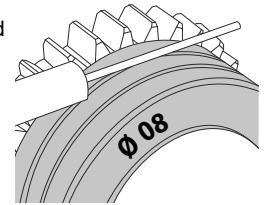
To change the rollers, do the following:

- Loosen the knob (a) to the maximum and lower it.
 - Unlock the rollers by removing the retaining screws (b)
 - Fit the appropriate drive rollers for your application and retighten the retaining screws.
- The rollers supplied are double groove rollers :
- steel \varnothing 0.6/0.8 (E1 + E2 + E3)
 - steel \varnothing 0.8/1.0 (E3)
 - aluminium \varnothing 0.8/1.0 (E2 + E3).



- Check the inscription on the roller to ensure that the rollers are suitable for the wire diameter and the wire material (for \varnothing 1.0 wire, use the \varnothing 1.0 groove).
- Use V-grooved rollers for steel and other hard wires.
- Use U-grooved rollers for aluminium and other soft, alloyed wires.

- ↖ : visible inscription on the roller (example: 1.0)
- : groove to be used



To install the wire, follow the steps below:

- Loosen the knob to the maximum and lower it.
- Insert the wire, then close the motor reel and tighten the knob as shown.
- Operate the motor via the trigger of the torch.

Notes:



- Too narrow a sheath can lead to unreeling issues and can lead to the overheating of the motor.
- The torch connection must also be properly tightened to prevent it from overheating.
- Ensure that neither the wire, nor the reel, touches the device's mechanism, otherwise there is a danger of short-circuiting the machine.

RISK OF INJURY FROM MOVING COMPONENTS



- The reels have moving parts that can trap hands, hair, clothing or tools causing injuries!
- Do not touch rotating, moving or driving parts of the machine!
 - Ensure that the housing covers or protective covers remain fully closed when in operation.
 - Do not wear gloves when threading the filler wire or changing the filler-wire's spool.

SEMI-AUTOMATIC STEEL/STAINLESS STEEL WELDING (MAG MODE)

This machine can weld steel and stainless steel wire from \varnothing 0.6 to 1.0 mm (I-A).

E1 / E2 : The unit is supplied with \varnothing 0.6/0.8 rollers for steel or stainless steel as standard.

E3 : The unit is supplied with \varnothing 0.6/0.8 and \varnothing 0.8/1.0 rollers for steel or stainless steel as standard.

The contact tip, the sheave groove and the welding torch sheath are designed for this use.

To do this using steel requires a specific welding gas (Ar+CO2). The amount of CO2 may vary depending on the type of gas used. For stainless steel, use a 2% CO2 mixture. When welding with pure CO2, it is necessary to connect a gas pre-heater to the gas cylinder. For specific gas issues, please contact your gas distributor. The gas flow rate for steel is between 8 and 15 litres per minute depending on the surroundings. To measure the gas flow rate at the torch outlet, it is recommended to use the optional flow meter (ref. 053939).

SEMI-AUTOMATIC ALUMINIUM WELDING (MIG MODE)

This machine can weld aluminium wire from Ø 0.8 to 1.2 mm (I-B) (Ø 1.2 mm, non-intensive welding).

E2 / E3 : The unit is supplied as standard with Ø 0.8/1.0 rollers for aluminium.

For use with aluminium, pure argon gas (Ar) is required. Seek advice from a gas distributor for a wide selection of gases. The gas flow rate for aluminium is between 15 and 20 l/min depending on the surrounding environment and the welder's experience.

The differences between steel and aluminium processing are as follows:

- Use specific rollers for aluminium welding.
- Put minimum pressure on the motorised reel's pressure rollers so as not to crush the thread.
- Only use the capillary tube (for guiding the wire between the feed rollers and the EURO connector) for steel/stainless steel welding (I-B)
- Use a special aluminium torch. This aluminium torch has a Teflon coating to reduce friction. **DO NOT** cut away the coating at the tip of the connector! This coating is used to guide the wire from the rollers.
- Contact tips: use a SPECIAL aluminium contact tip that matches the wire's diameter.



When using red or blue sheathing (for aluminium welding), it is recommended to use the accessory 90950 (I-C). This stainless steel sheath guide improves the centering of the sheath and facilitates the flow of the wire.



Video

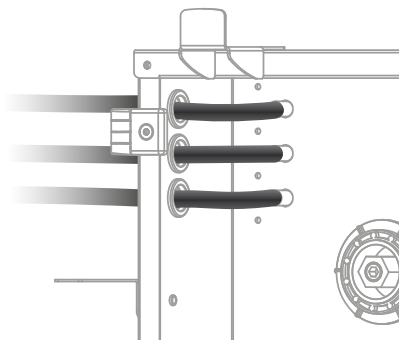
SEMI-AUTOMATIC WELDING IN CUSI AND CUAL (SOLDERING MODE)

The machine can weld CuSi and CuAl wire from Ø 0.8 to 1.0 mm.

In the same way as with steel, a capillary tube must be set up and a torch with a steel sheath must be used. For brazing, pure argon (Ar) should be used.

GAS SUPPLY

Bulkhead connector : E2 / E3



- Fit a suitable pressure regulator to the gas cylinder. Connect to the machine with the hose(s) supplied, see diagram on page 6. Fit the hose clamps to prevent leaks.
- Ensure that the gas cylinder is held securely in place with a chain attached to the power source.
- Set the gas flow rate by adjusting the dial on the pressure regulator.

NB: To adjust the gas flow rate more easily, use the rollers on the motorised spool by pulling the trigger on the torch (loosen the brake wheel on the motorised reel so that no wire is drawn in). Maximum gas pressure: 0.5 MPa (5 bar).

This procedure does not apply to welding in «No Gas» mode.

RECOMMENDED COMBINATIONS

	(mm)	Current (A)	Ø Wire (mm)	Ø Nozzle (mm)	Flow (L/min)
MIG	0.8-2	20-100	0.8	12	10-12
	2-4	100-200	1.0	12-15	12-15
MAG	0.6-1.5	15-80	0.6	12	8-10
	1.5-3	80-150	0.8	12-15	10-12
	3-8	150-300	1.0/1.2	15-16	12-15

MIG / MAG (GMAW/FCAW) WELDING MODE

Settings	Settings	Welding processes		
		Manual	Synergies (pre-installed user settings)	
Torque material/gas	- Fe Ar 15% CO ₂ - ...	-	✓	Choice of the material to be welded. Synergic welding parameters
Wire diameter	Ø 0.6 > Ø 1.2 mm	-	✓	Choice of wire diameter

Using the trigger	2T, 4T	✓	✓	Choice of trigger welding management mode
Spot mode	Spot, Spot-Delay			Selecting the spot mode
First Setting	Thickness Start-up Speed	-	✓	Choosing the main setting to be displayed (thickness of the workpiece, average welding current or wire speed).

Access to some of the welding parameters depends on the selected display mode: Settings/Display mode: Easy or Expert. Refer to the HMI manual.

WELDING PROCESSES

For more information on GYS pre-installed user settings and welding processes, scan the QR code:



2 WELDING MODES (EASY)

• **Welding (continuous)**

• **Stitch Welding**

This function allows the assembly of very thin sheet metal while limiting the risk of piercing and deformation of the material. Chain-stitch welding is done manually with the trigger.

SPOT MODE (EXPERT)

• **Spot**

This welding mode allows the pre-assembly of parts before welding. Spot welding can be done manually using the trigger or timed with a predefined spot welding period. Spot welding allows for better reproduction and non-oxidised weld points.

• **Spot-Delay**

This is a welding mode similar to Spot welding but with predefined weld and dwell times, as long as the trigger is held down. This function allows welding very thin steel or aluminium metal sheet, limiting the risk of piercing and distortion (especially for aluminium welding).

CONFIGURING THE SETTINGS

	Units	
Burnback	-	Feature to help prevent the wire sticking to the bead. This is timed to coincide with the wire rising from the weld pool.
Crater Filler	-	This idling current is the next phase after the current is lowered.
Delay	s	Time between the end of a point (excluding Post-Gas) and the start of a new point (including Pre-Gas).
Thickness	mm	The pre-installed user settings (synergies) allow for a fully-automatic set-up. Changing the thickness setting automatically sets the appropriate wire tension and speed.
Hot Start	-	The Hot Start is an overcurrent used at the start that prevents the wire from sticking to the workpiece.
Current	A	The welding current is adjusted according to the type of wire used and the material to be welded.
I Start	-	Adjustment of the ignition current.
Arc length	-	Used to adjust the distance between the end of the wire and the weld pool (tension adjustment).
Pre-Gas	s	When the torch is bled and the gas shield is created before ignition.
Tack welding	s	Set duration.
Post-Gas	s	Duration of the gas protection after the arc is extinguished. It protects the workpiece and the electrode from oxidation.
Self-Induction Coil	-	Lessens the welding current more or less. To be set according to the welding position.
Voltage	V	Control over the cord's width.
Approach speed	-	Progressive yarn speed. Before priming, the wire moves slowly to create the first contact without jolting.
Wire speed	m/min	Amount of filler metal deposited and consequently the welding intensity and penetration.

Access to some of the welding settings depends on the selected welding process (Manual, Standard, etc.) and the selected display mode (Easy, Expert or Advanced). Refer to the HMI manual.

GAS FLOW CONTROL

In the main screen, a long press on button N°1 allows you to adjust the gas flow on the manometer without unwinding the supply wire. Once started, the procedure is illustrated with an animation on the screen. The gas flow setting should be checked periodically to ensure optimal welding.

DEFECTS: CAUSES & SOLUTIONS

SYMPTOMS	POSSIBLE CAUSES	SOLUTIONS
The flow rate of the welding wire is not constant.	Clogs blocking the opening.	Clean the contact tube or replace it with non-stick material.
	The wire is slipping on the rollers.	Reapply the non-stick product.
	One of the rollers is spinning.	Check the tightness of the roller screw.
	The torch cable is twisted.	The torch cable should be as straight as possible.
The unwinding mechanism is not working.	The spool's brake or roller is too tight.	Loosen the brake and rollers.
Incorrect unwinding of the wire.	Dirty or damaged wire guide.	Clean or replace.
	Roller pin key is missing.	Reposition the pin in its slot.
	Spool's brake is too tight.	Release the brake.
No current or wrong welding current.	Incorrect mains outlet connection.	Check the plug connection and verify that the plug is connected to the power supply.
	Poor earth connection.	Check the earthing cable (its connection and the condition of the clamp).
	No power.	Check the torch trigger.
The wire jams after passing through the rollers.	Crushed wire guide sheath.	Check the wire-guide sheath and body of the torch..
	Wire blockage in the torch.	Replace or clean.
	No capillary tube.	Check that the capillary tube is present.
	Wire speed too high.	Reduce the wire speed.
The weld bead is porous.	The gas flow is insufficient.	Adjustment range from 15 to 20 L / min. Clean the base metal.
	Gas cylinder empty.	Replace it.
	Unsatisfactory gas quality.	Replace it.
	Air circulation or wind influence.	Avoid draughts and protect the welding area.
	Gas nozzle is too clogged.	Clean or replace the gas nozzle.
	Bad wire quality.	Use a wire suitable for MIG/MAG welding.
	Condition of the welding surface is too poor (rusted, etc.).	Clean the workpiece before welding.
Excessive sparks.	The gas is not connected.	Check that the gas is connected to the power source's inlet.
	Arc voltage is too low or too high.	See welding settings.
	Poor earth connection.	Check and position the earth clamp as close as possible to the area to be welded.
No gas coming from the torch.	Insufficient gas protection.	Adjust the gas flow.
		Poor gas connection.
Error while downloading.	The data on the USB stick is incorrect or corrupted.	Check your data.
Backup error.	You have exceeded the maximum number of backups.	You need to delete some programs. The number of backups is limited to 200.
Automatic deletion of JOBS.	Some of your JOBS have been deleted because they were incompatible with the new pre-installed user settings (synergies).	-
USB key error.	There is no JOB detected on the USB stick.	-
	The product's memory space is full.	Free up some space on the USB key.
File error.	The file does not match the pre-installed user settings (synergies) downloaded to the product.	The file was created with pre-installed user settings (synergies) that are not present on the machine.
Update problem	The USB stick is not recognised. The visualisation of step 5 of the update procedure does not appear on the display.	1- Insert the USB key into its socket. 2- Turn on the power source. 3- Hold down on the HMI thumbwheel to force the update.

DRIVE ROLLERS (B) OPTIONAL

Diameter	Part Number (x2)	
	Steel	Aluminium
∅ 0.6/0.8	042087	-
∅ 0.8/1.0	042360	042377
∅ 1.0/1.2	-	040915

WARRANTY CONDITIONS

The warranty covers any defects or manufacturing faults for two years from the date of purchase (parts and labour).

The warranty does not cover:

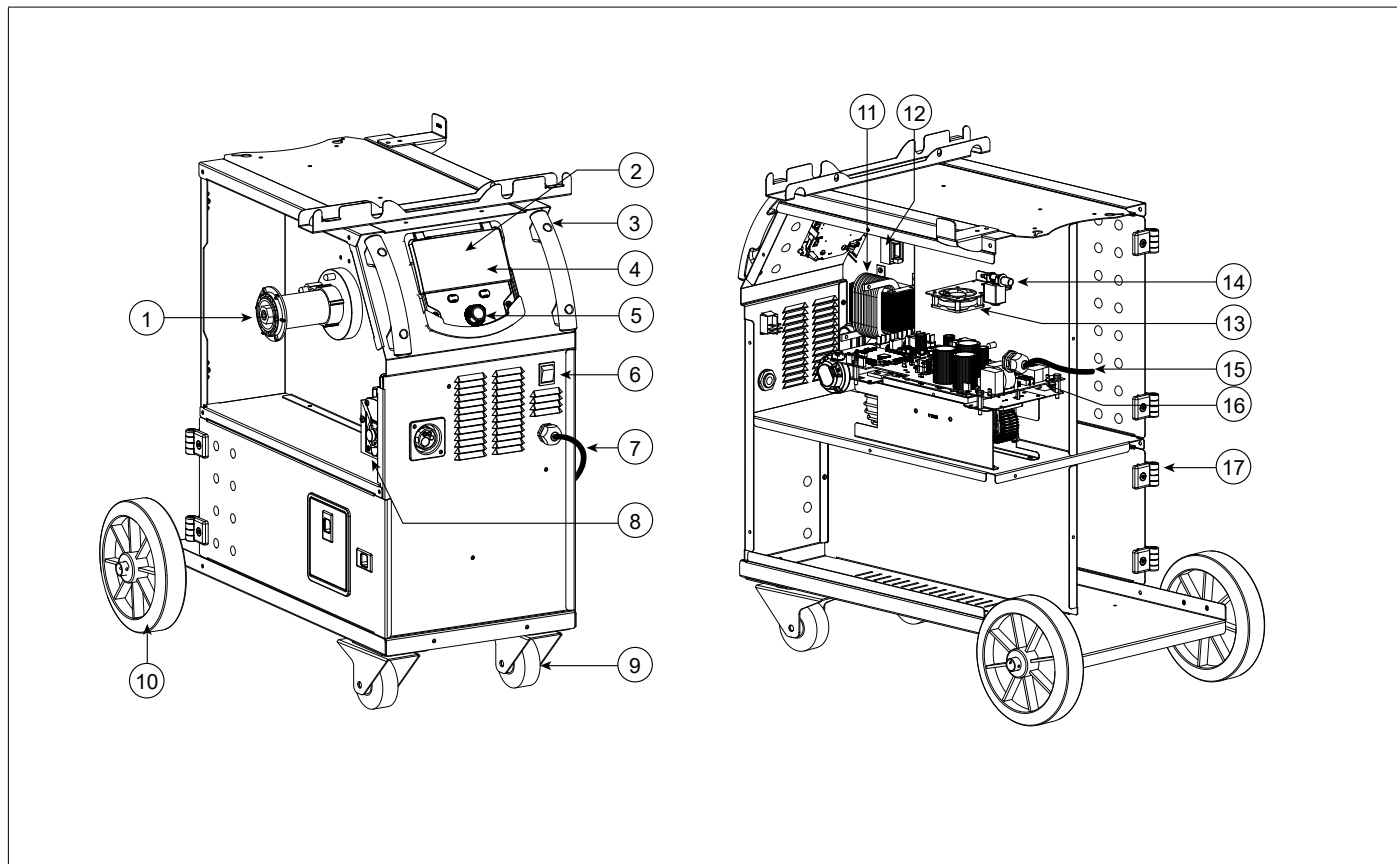
- Any other damage caused during transport.
- The general wear and tear of parts (i.e. : clamps, etc.).
- Incidents caused by misuse (incorrect power supply, dropping or dismantling).
- Environment-related faults (such as pollution, rust and dust).

In the event of a breakdown, please return the appliance to your distributor, along with:

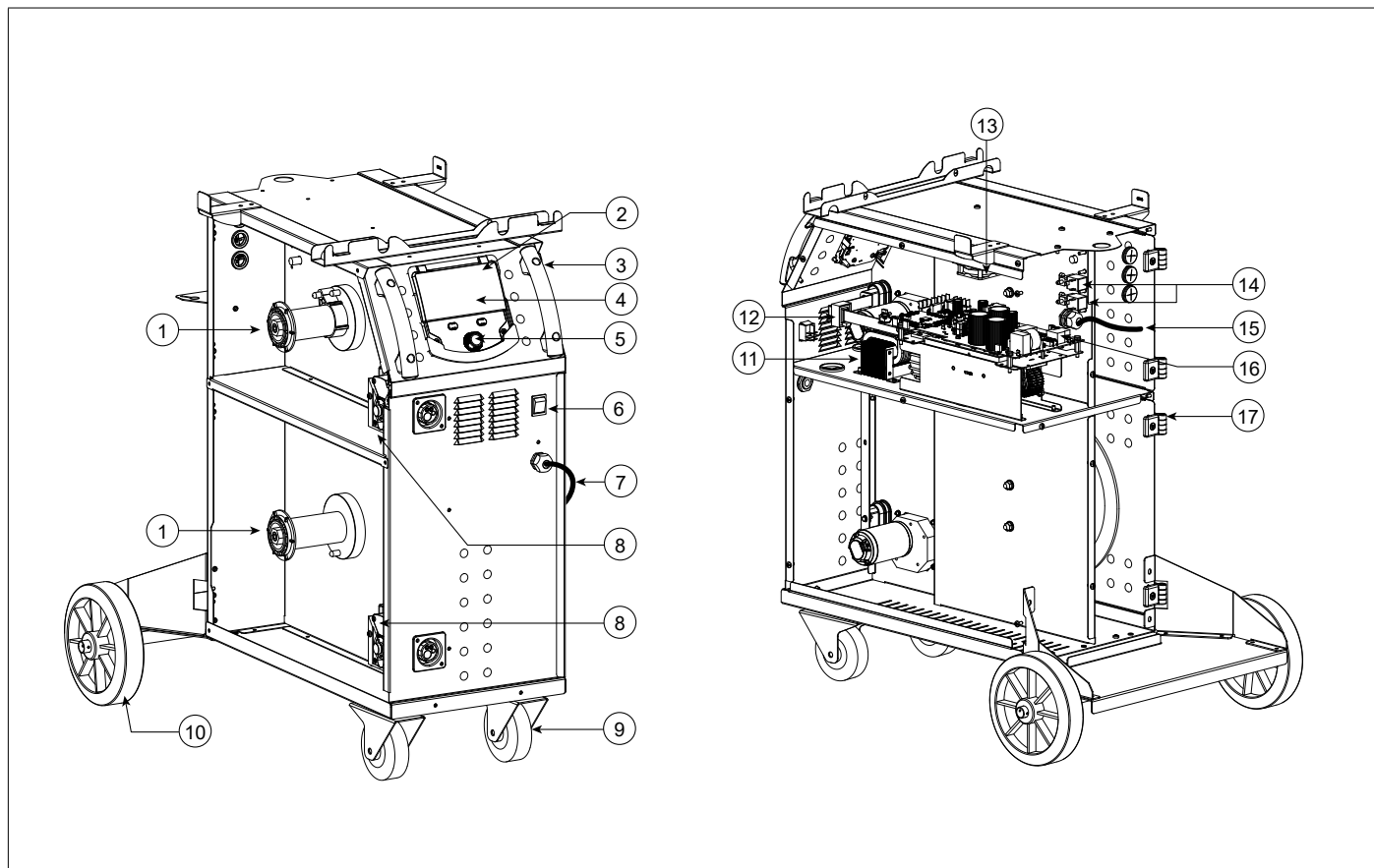
- dated proof of purchase (receipt, invoice, etc.),
- a note explaining the malfunction.

SPARE PARTS / ERSATZTEILE / PIEZAS DE REPUESTO / ЗАПАСНЫЕ ЧАСТИ / RESERVE ONDERDELEN / PEZZI DI RICAMBIO

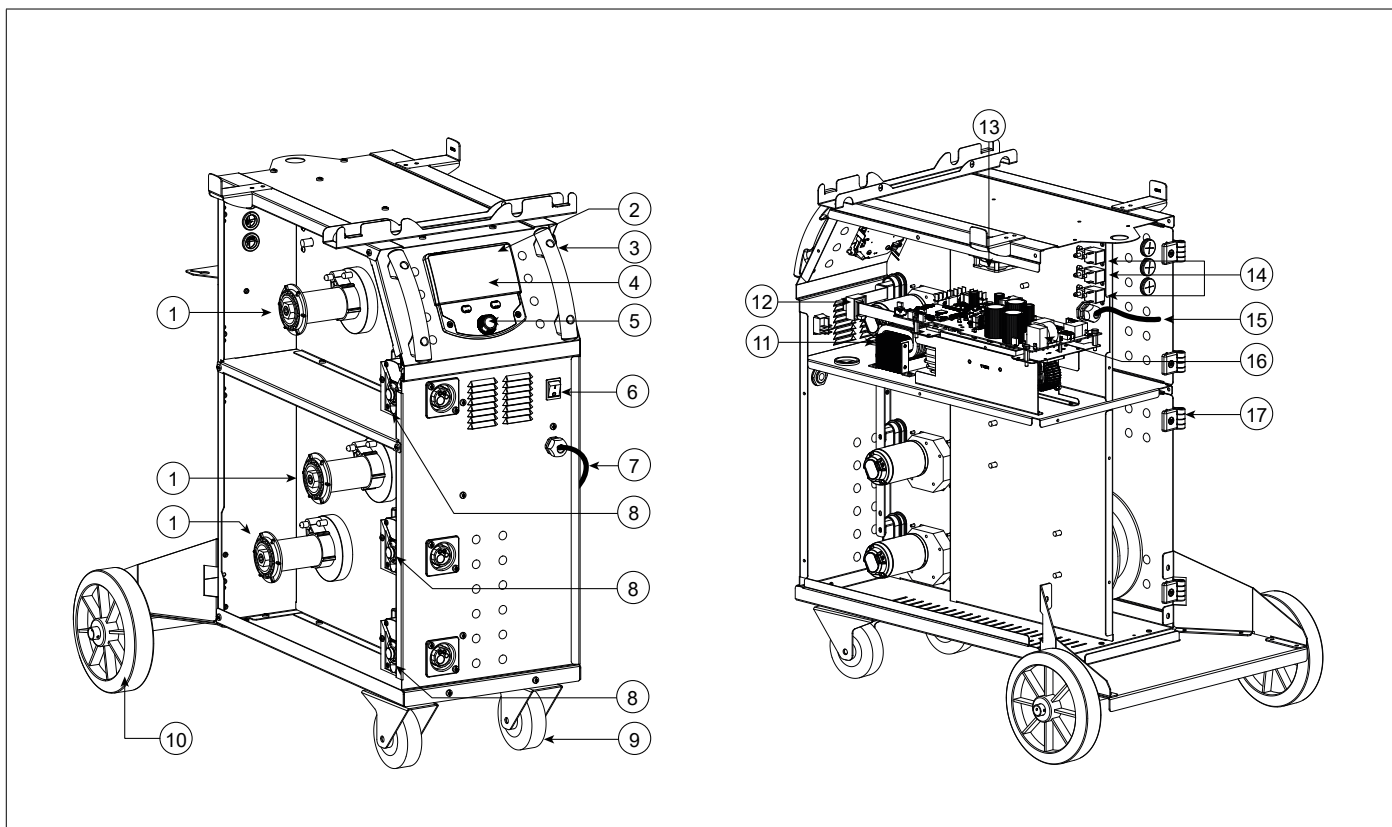
E1 GYS AUTO



E2 GYS AUTO



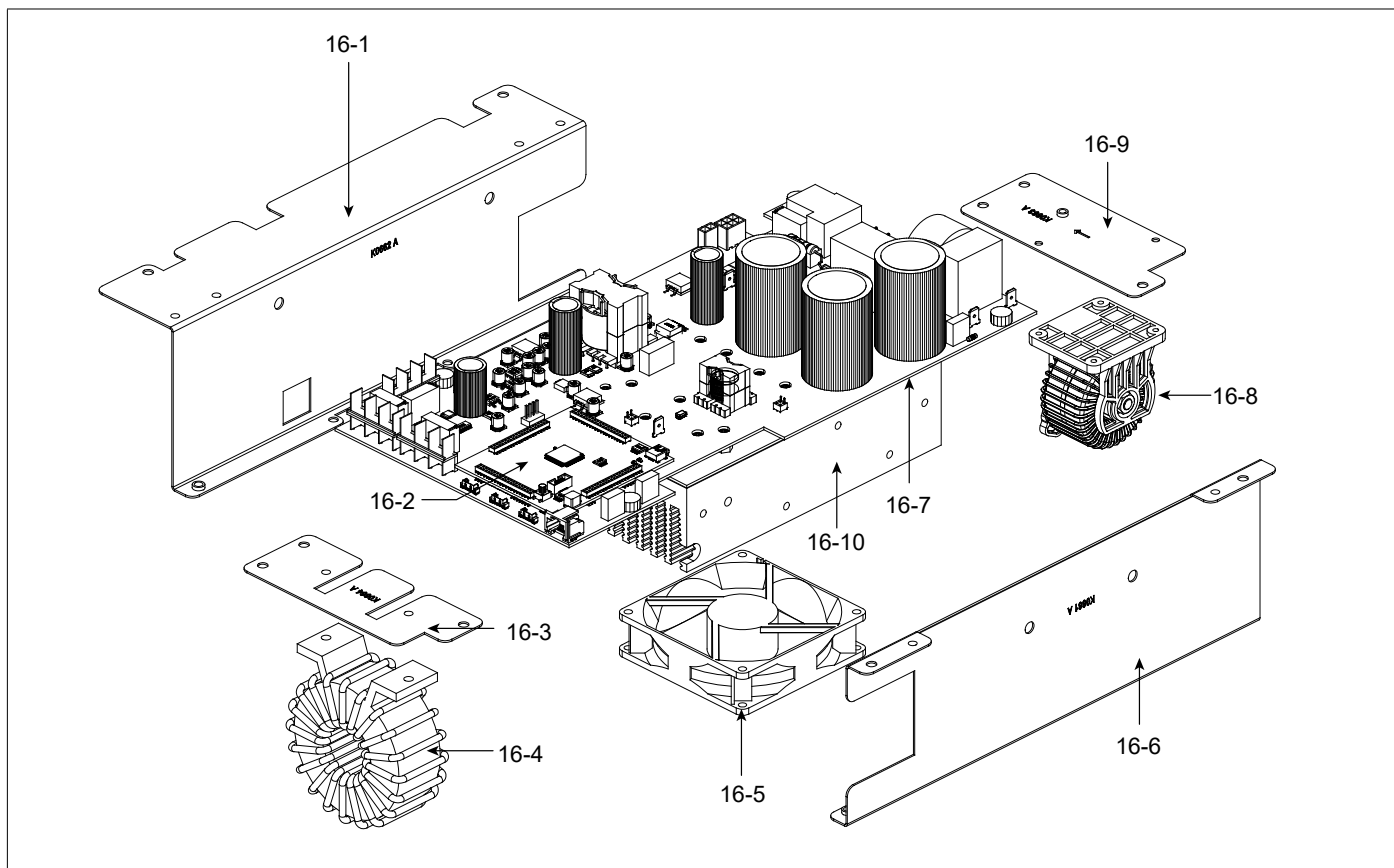
E3 GYS AUTO



		E1	E2	E3
1	Support bobine / Wire reel holder		71613	
2	Protection écran / Screen protector		56296	
3	Poignée / Handle		56047	
4	IHM / HMI		E0123C	
5	Molette / Knob		56294	
6	Interrupteur / Switch		52472	
7	Cable de masse avec pince / Ground cable with clamp	350 cm 25 mm ²	A0216ST	
8	Motodévidoir / Wirefeeder		51207	
9	Roue pivotante / Swivel wheel		71361	
10	Roue / Wheel		71375	
11	Self de sortie / Output self		63739	
12	Capteur de courant / Current sensor		64452	
13	Ventilateur / Fan	92 x 92	51048	
14	Electrovanne / Solenoid valve		70991	
15	Cordon secteur / Power cord	625 cm	21588	
16*	Circuit principal / Main circuit		E0149C	E0150C E0122C
17	Charnière / Hinge		56239	

* Voir détails page suivante / see details on next page

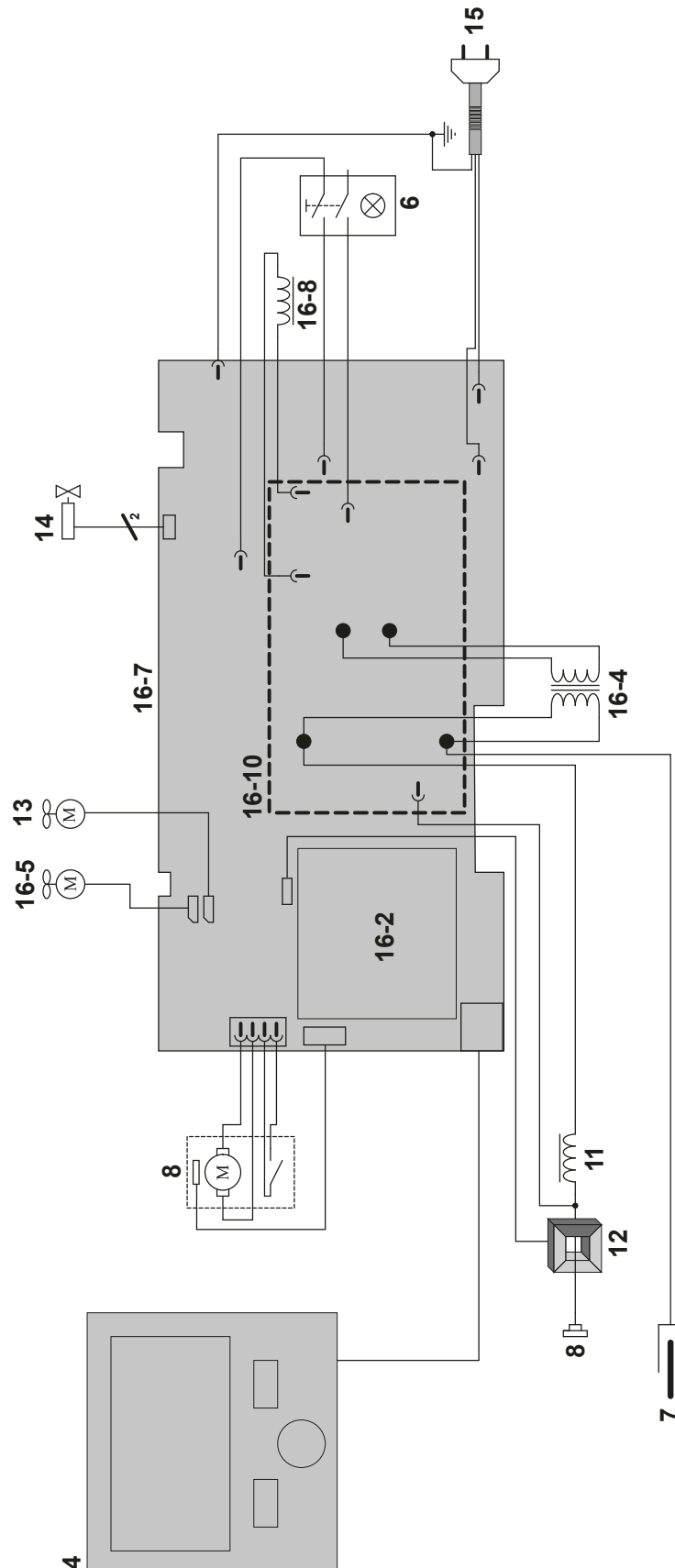
16 - CIRCUIT PRINCIPAL / MAIN CIRCUIT



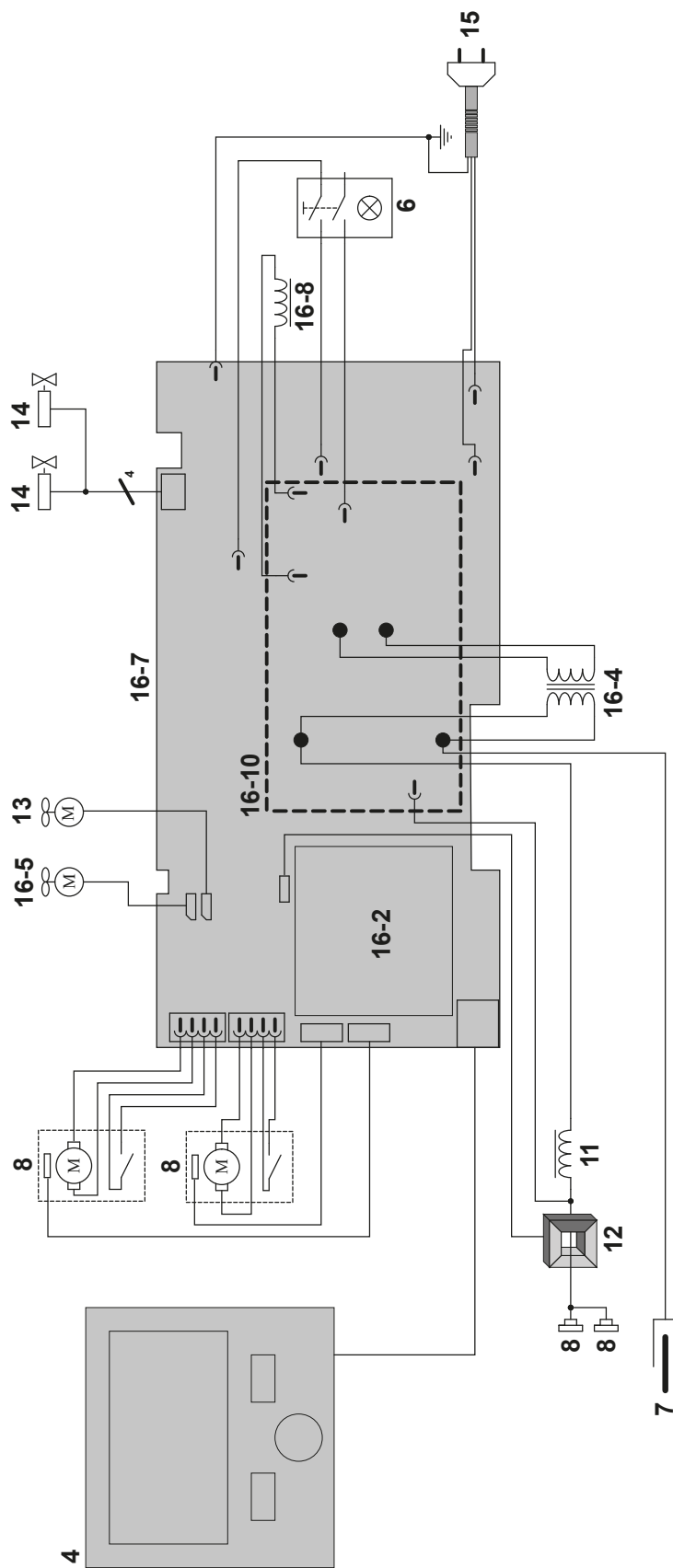
		E1	E2	E3
16-1	Flanc B / Side B	K0662		
16-2	Carte de contrôle / Control board	E0124C		
16-3	Support transformateur / Transformer support	K0664		
16-4	Transformateur de puissance / Power transformer	63108		
16-5	Ventilateur / Fan	92 x 92 51048		
16-6	Flanc A / Side A	K0661		
16-7	Carte de puissance / Power board	E0149B	E0150B	E0122B
16-8	Self PFC / PFC self	63662		
16-9	Support self / Self holder	K0663		
16-10	Bloc puissance / Power block	E5036		

CIRCUIT DIAGRAM / SCHALTPLAN / DIAGRAMA ELECTRICO / ЭЛЕКТРИЧЕСКАЯ СХЕМА / ELEKTRISCHE SCHEMA / SCHEMA ELETTRICO

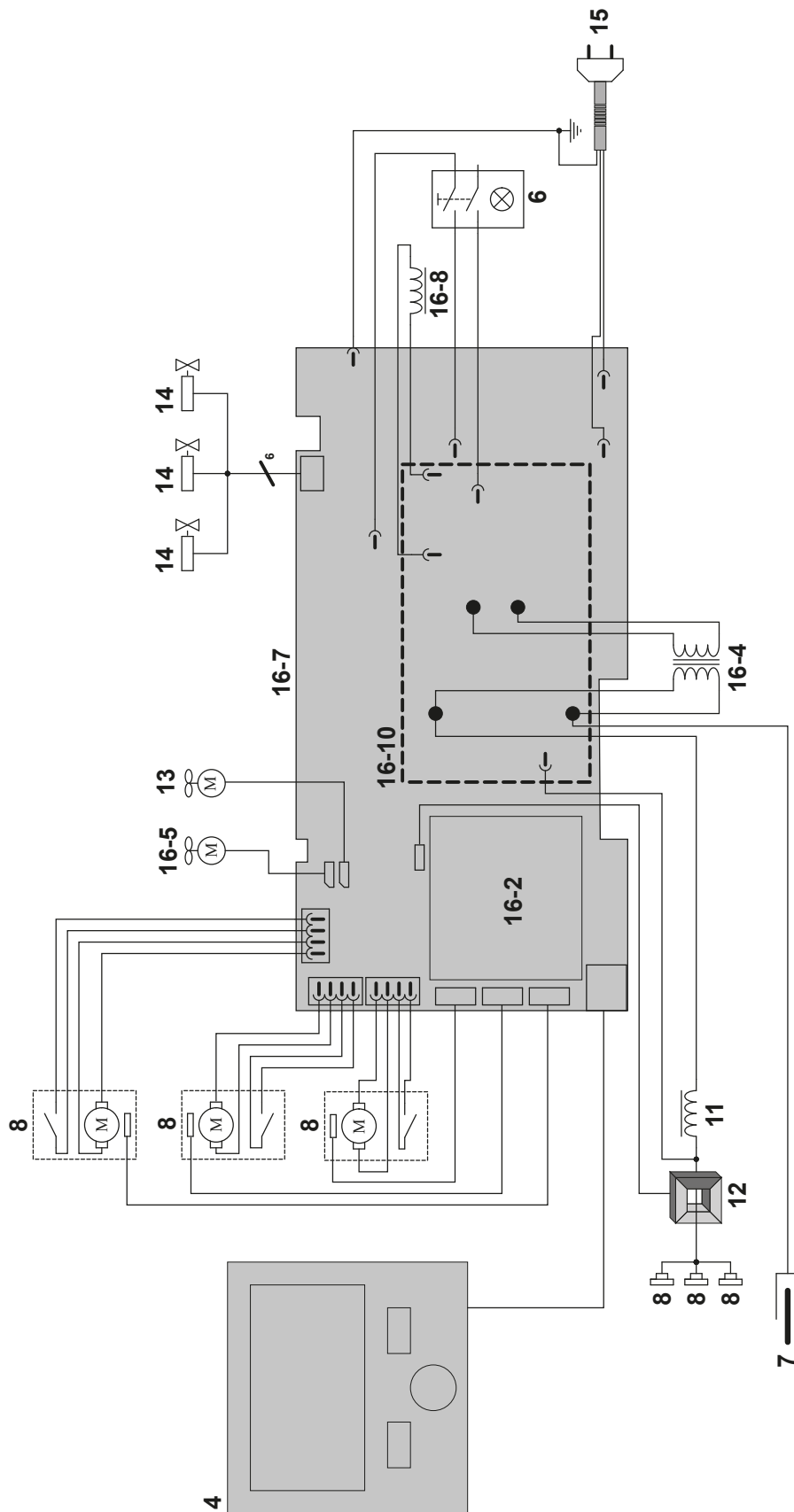
E1



E2




E3





TECHNICAL SPECIFICATIONS / TECHNISCHE DATEN / ESPECIFICACIONES TÉCNICAS / ТЕХНИЧЕСКИЕ СПЕЦИФИКАЦИИ / TECHNISCHE GEGEVENS / SPECIFICHE TECNICHE


	E1	E2	E3
Primaire / Primary / Primär / Primario / Первичка / Primaire / Primario			
Tension d'alimentation / Power supply voltage / Versorgungsspannung / Tensión de red eléctrica / Напряжение питания / Voedingsspanning / Tensione di alimentazione	U1	230 V +/- 15%	
Fréquence secteur / Mains frequency / Netzfrequenz / Frecuencia / Частота сети / Frequentie sector / Frecuencia settore		50 / 60 Hz	
Nombre de phases / Number of phases / Anzahl der Phasen / Número de fases / Количество фаз / Aantal fasen / Numero di fase		1	
Fusible disjoncteur / Fuse / Sicherung / Fusible disyuntor / Плавкий предохранитель прерывателя / Zekering hoofdschakelaar / Fusibile disgiuntore		16 A	
Courant d'alimentation effectif maximal / Maximum effective supply current / Corriente de alimentación efectiva máxima / Maximale effectieve voedingsstroom / Corrente di alimentazione effettiva massima / Maksymalny efektywny prąd zasilania	I1eff	14.3 A	
Courant d'alimentation maximal / Maximum supply current / Corriente de alimentación máxima / Maximale voedingsstroom / Corrente di alimentazione massima / Maksymalny prąd zasilania	I1max	26.1 A	
Section du cordon secteur / Mains cable section / Sectie netsnoer / Sección del cable de alimentación / Sezione del cavo di alimentazione / Odcinek przewodu zasilającego		3 x 2.5 mm ²	
Puissance active maximale consommée / Maximum active power consumed / Consumo máximo de energía activa / Maximale actieve verbruikte vermogen / Potenza attiva massima consumata / Maksymalny pobór mocy czynnej		5848 W	
Consommation au ralenti / Idle consumption / Consumo en ralentizado / Stationair verbruik / Consumo al mínimo / Zużycie na biegu jałowym		9.13 W	
Rendement à I2max / Efficiency at I2max / Eficiencia a I2máx / Rendement bij I2max / Efficienza a I2max / Sprawność przy I2max		83 %	
Facteur de puissance à I2max / Power factor at I2max / Factor de potencia a I2max / Inschakelduur bij I2max / Ciclo di potenza a I2max / Współczynnik mocy przy I2max	λ	0.996	
Classe CEM / EMC class / Classe CEM / Klasse CEM / Classe CEM / Klasa EMC		A	
Secondaire / Secondary / Sekundär / Secundario / Вторичка / Secondair / Secundario		MIG-MAG (GMAW-FCAW)	
Tension à vide / No load voltage / Leerlaufspannung / Tensión al vacío / Напряжение холостого хода / Nullastspanning / Tensione a vuoto	U0 (TCO)	65 V	
Nature du courant de soudage / Type of welding current / Tipo de corriente de soldadura / Type lasstroom / Tipo di corrente di saldatura / Rodzaj prądu spawania		DC	
Modes de soudage / Welding modes / Modos de soldadura / Lasmodules / Modalità di saldatura / Tryby spawania		MIG-MAG	
Courant de soudage minimal / Minimum welding current / Corriente mínima de soldadura / Minimale lasstroom / Corrente minima di saldatura / Minimalny prąd spawania		10 A	
Courant de sortie nominal / Rate current output / nominaler Arbeitsstrom / Corriente de salida nominal / Номинальный выходной ток / Nominale uitgangsstroom / Corrente di uscita nominale	I2	10 → 200 A	
Tension de sortie conventionnelle / Conventional voltage output / entsprechende Arbeitsspannung / Условные выходные напряжения / Tensión de salida convencional / Conventionele uitgangsspanning / Tensione di uscita convenzionale	U2	14.5 → 24 V	
Facteur de marche à 40°C (10 min), Norme EN60974-1 / Duty cycle at 40°C (10 min), Standard EN60974-1. * Einschaltdauer @ 40°C (10 min), EN60974-1-Norm / Ciclo de trabajo a 40°C (10 min), Norma EN60974-1/ ПВ% при 40°C (10 мин), Норма EN60974-1. / Inschakelduur bij 40°C (10 min), Norm EN60974-1, Ciclo di lavoro a 40°C (10 min), Norma EN60974-1.	I _{max}	20 %	
	60 %	145 A	
	100 %	130 A	
Diamètre minimal et maximal du fil d'apport / Minimum and maximum diameter of filler wire / Minimaler und maximaler Durchmesser des Schweißfülldrahtes / Diámetro mínimo y máximo del hilo de soldadura / Минимальный и максимальный диаметр присадочной проволоки / Minimale en maximale diameter van het lasdraad / Diametro minimo e massimo del filo d'apporto	Acier / Steel	0.6 → 1.0 mm	
	Inox / Stainless	0.6 → 1.0 mm	
	Aluminium	0.8 → 1.2 mm	
	CuSi / CuAl	0.8 → 1.0 mm	
Connectique de torche / Torch connector / Brenneranschluss / Conexiones de antorcha / Соединения горелки / Aansluiting toorts / Connettori della torcia		Euro	
Type de galet / Drive roller type / Drahtführungsrolle-Typ / Tipo de rodillo / Тип ролика / Type draadaanvoerrol / Tipo di rullo		B	
Vitesse de dévidage / Motor speed / Motor-Drehzahl / Velocidad de motor / Скорость двигателя / Snelheid motor / Velocità del motore		1 → 15 m/min	
Puissance du moteur / Motor power / Leistung des Motors / Potencia del motor / Vermogen van de motor / Potenza del motore		50 W	
Diamètre maximal de la bobine d'apport / Maximum diameter of the supply reel / Maximaler Durchmesser der Schweißfülldrahtspule / Diámetro máximo de la bobina de alambre / Максимальный диаметр проволочной бобины / Maximale diameter van de spoel / Diametro massimo della bobina d'apporto		Ø 300 mm	Ø 300 mm Ø 200 mm
Poids maximal de la bobine de fil d'apport / Maximum weight of the filler wire reel / Maximales Gewicht der Schweißfülldrahtspule / Peso máximo de la bobina de alambre / Максимальный вес проволочной бобины / Maximale gewicht van de spoel / Peso massimo della bobina del filo d'apporto		15 kg	15 kg 5 kg
Pression maximale de gaz / Maximum gas pressure / Maximaler Gasdruck / Presión máxima del gas / Максимальное давление газа / Maximale gasdruk / Pressione massima del gas	P _{max}	0.5 MPa (5 bar)	
Température de fonctionnement / Functioning temperature / Betriebstemperatur / Temperatura de funcionamiento / Рабочая температура / Gebruikstemperatuur / Temperatura di funzionamento		-10°C → +40°C	
Température de stockage / Storage temperature / Lagertemperatur / Temperatura de almacenaje / Температура хранения / Bewaartemperatuur / Temperatura di stoccaggio		-20°C → +55°C	
Degré de protection / Protection level / Schutzart / Grado de protección / Степень защиты / Beschermingsklasse / Grado di protezione		IP21	


Classe d'isolation minimale des enroulements / Minimum coil insulation class / Clase mínima de aislamiento del bobinado / Minimale isolatieklasse omwikkelingen / Classe minima di isolamento degli avvolgimenti / Minimalna klasa izolacji okablowania	B		
Dimensions (LxIxH) / Dimensions (LxWxH) / Abmessungen (Lxbxt) / Dimensiones (LxIxH) / Размеры (ДхШхВ) / Afmetingen (LxIxH) / Dimensioni (LxIxH)	74 x 49 x 78 cm	87.5 x 63 x 90 cm	
Poids / Weight / Gewicht / Bec / Peso / Gewicht / Peso	38.5 kg	48.8 kg	51 kg
Poids avec accessoires (Potence et/ou torche(s)) / Weight with accessories (balancing system and/or torch(es))	40.5 kg	58.3 kg	62.5 kg


*Les facteurs de marche sont réalisés selon la norme EN60974-1 à 40°C et sur un cycle de 10 min. Lors d'utilisation intensive (supérieur au facteur de marche) la protection thermique peut s'enclencher, dans ce cas, l'arc s'éteint et le témoin  s'allume. Laissez l'appareil alimenté pour permettre son refroidissement jusqu'à annulation de la protection. La source de courant décrit une caractéristique de sortie de type plate. Dans certains pays, U0 est appelé TCO.


*The duty cycles are measured according to standard EN60974-1 à 40°C and on a 10 min cycle. While under intensive use (> to duty cycle) the thermal protection can turn on, in that case, the arc switches off and the indicator  switches on. Keep the machine's power supply on to enable cooling until thermal protection cancellation. The current source describes a flat output characteristic. In some countries, U0 is called TCO.

* Einschaltdauer gemäß EN60974-1 (10 Minuten - 40°C). Bei sehr intensivem Gebrauch (>Einschaltdauer) kann der Thermoschutz ausgelöst werden. In diesem Fall wird der Lichtbogen abgeschaltet und die entsprechende Warnung  erscheint auf der Anzeige. Das Gerät zum Abkühlen nicht ausschalten und laufen lassen bis das Gerät wieder bereit ist. Die Stromquelle beschreibt eine flache Ausgangscharakteristik. In einigen Ländern wird U0 als TCO bezeichnet.

*Los ciclos de trabajo están realizados en acuerdo con la norma EN60974-1 a 40°C y sobre un ciclo de diez minutos. Durante un uso intensivo (superior al ciclo de trabajo), se puede activar la protección térmica. En este caso, el arco se apaga y el indicador  se enciende. Deje el aparato conectado para permitir que se enfríe hasta que se anule la protección. La fuente de corriente describe una característica de salida plana. En algunos países, U0 se llama TCO.


*ПВ% указаны по норме EN60974-1 при 40°C и для 10-минутного цикла. При интенсивном использовании (> ПВ%) может включиться тепловая защита. В этом случае дуга погаснет и загорится индикатор . Оставьте аппарат подключенным к питанию, чтобы он остыл до полной отмены защиты. Источник тока имеет плоскую выходную характеристику. В некоторых странах U0 называется TCO.

*De inschakelduur is gemeten volgens de norm EN60974-1 bij een temperatuur van 40°C en bij een cyclus van 10 minuten. Bij intensief gebruik (superieur aan de inschakelduur) kan de thermische beveiliging zich in werking stellen. In dat geval gaat de boog uit en gaat het beveiligingslampje  gaar branden. Laat het apparaat aan de netspanning staan om het te laten afkoelen, totdat de beveiliging afslaat. De stroombron heeft een vlakke uitgangskarakteristiek. In sommige landen wordt U0 genoemd.

*I cicli di lavoro sono realizzati secondo la norma EN60974-1 a 40°C e su un ciclo di 10 min. Durante l'uso intensivo (> al ciclo di lavoro) la protezione termica può attivarsi, in questo caso, l'arco si spegne e la spia  si illumina. Lasciate il dispositivo collegato per permetterne il raffreddamento fino all'annullamento della protezione. La sorgente di corrente descrive una caratteristica di uscita piatta. In alcuni Paesi, U0 viene chiamata TCO.

SYMBOLS / ZEICHENERKLÄRUNG / ICONOS / СИМВОЛЫ / PICTOGRAMMEN / ICONE

	FR Attention ! Lire le manuel d'instruction avant utilisation. EN Warning ! Read the user manual before use. DE ACHTUNG ! Lesen Sie diese Anleitung sorgfältig durch vor Inbetriebnahme des Geräts. ES ¡Atención! Lea el manual de instrucciones antes de su uso. RU Внимание! Прочтите инструкцию перед использованием. NL Let op! Lees aandachtig de handleiding. IT Attenzione! Leggere il manuale d'istruzioni prima dell'uso.
	FR Symbole de la notice EN User manual symbol DE Symbol in der Bedienungsanleitung ES Símbolo del manual RU Символы, использующиеся в инструкции NL Symbol handleiding IT Simbolo del manuale
	FR Source de courant de technologie onduleur délivrant un courant continu. EN Undulating current technology based source delivering direct current. DE Invertergleichstromquelle. ES Fuente de corriente de tecnología ondulador que libera corriente continua. RU Источник тока с технологией преобразователя, выдающий постоянный ток. NL Stroombron met UPS technologie, levert gelijkstroom. IT Fonte di corrente con tecnologia inverter che rilascia una corrente continua.
	FR Soudage à MIG / MAG EN MIG / MAG welding DE MIG / MAG-Schweißen ES Soldadura MIG / MAG RU Сварка MIG / MAG NL MIG/ MAG lassen IT Saldatura MIG / MAG
	FR Convient au soudage dans un environnement avec risque accru de choc électrique. La source de courant elle-même ne doit toutefois pas être placée dans de tels locaux. EN Suitable for welding in an environment with an increased risk of electric shock. However this a machine should not be placed in such an environment. DE Geeignet für Schweißarbeiten im Bereich mit erhöhten elektrischen Risiken. ES Adaptado para soldadura en lugar con riesgo de choque eléctrico. Sin embargo, la fuente eléctrica no debe estar presente en dichos lugares. RU Подходит для сварки в среде с повышенным риском удара током. В этом случае источник тока не должен находиться в том же самом помещении. NL Geschikt voor het lassen in een ruimte met verhoogd risico op elektrische schokken. De voedingsbron zelf moet echter niet in dergelijke ruimte worden geplaatst. IT Conviene alla saldatura in un ambiente a grande rischio di scosse elettriche. L'origine della corrente non deve essere localizzata in tale posto.
	FR Courant de soudage continu EN Direct welding current DE Gleichschweißstrom ES Corriente de soldadura continua. RU Постоянный сварочный ток NL Gelijkstroom IT Corrente di saldatura continuo
U0	FR Tension assignée à vide EN Open circuit voltage DE Leerlaufspannung ES Tensión asignada en vacío RU Номинальное напряжение холостого хода NL Nullaastspanning IT Tensione nominale a vuoto
X(40°C)	FR Facteur de marche selon la norme EN60974-1 (10 minutes – 40°C). EN Duty cycle according to standard EN 60974-1 (10 minutes – 40°C). DE Einschaltdauer: 10 min - 40°C, richtlinienkonform EN60974-1. ES Ciclo de trabajo según la norma EN60974-1 (10 minutos – 40°C). RU ПВ% согласно норме EN 60974-1 (10 минут – 40°C). NL Inschakelduur volgens de norm EN60974-1 (10 minuten – 40°C). IT Ciclo di lavoro conforme alla norma EN60974-1 (10 minuti – 40°C).
I2	FR Courant de soudage conventionnel correspondant EN Corresponding conventional welding current DE Entsprechender Schweißstrom ES Corriente de soldadura convencional correspondiente. RU Соответствующий номинальный сварочный ток NL Corresponderende conventionele lasstroom IT Corrente di saldatura convenzionale.
A	FR Ampères EN Amperes DE Ampere ES Amperios RU Амперы NL Ampère IT Amper
U2	FR Tensions conventionnelles en charges correspondantes EN Conventional voltage in corresponding loads. DE Entsprechende Arbeitsspannung ES Tensiones convencionales en cargas correspondientes. RU Номинальные напряжения при соответствующих нагрузках. NL Conventionele spanning in corresponderende belasting IT Tensioni convenzionali in cariche corrispondenti
V	FR Volt EN Volt DE Volt ES Voltio RU Вольт NL Volt IT Volt
Hz	FR Hertz EN Hertz DE Hertz ES Hercios RU Герц NL Hertz IT Hertz
	FR Vitesse du fil EN Wire speed DE Drahtgeschwindigkeit ES Velocidad de hilo RU Скорость проволоки NL Draadsnelheid IT Velocità di filo
m/min	FR Mètre par minute EN Meter per minute DE Meter pro Minute ES Metro por minuto RU Метр в минуту NL Meter per minuut IT Metro per minuto
	FR Alimentation électrique monophasée 50 ou 60Hz EN Single phase power supply 50 or 60 Hz DE Einphasige Netzversorgung mit 50 oder 60Hz ES Alimentación eléctrica monofásica 50 o 60Hz RU Однофазное электропитание 50 или 60Гц NL Enkelfase elektrische voeding 50Hz of 60Hz. IT Alimentazione elettrica monofase 50 o 60Hz
U1	FR Tension assignée d'alimentation EN Assigned voltage DE Netzspannung ES Tensión asignada de alimentación eléctrica. RU Номинальное напряжение питания NL Nominale voedingsspanning IT Tensione nominale d'alimentazione
I1max	FR Courant d'alimentation assigné maximal (valeur efficace) EN Maximum rated power supply current (effective value). DE Maximaler Versorgungsstrom ES Corriente de alimentación eléctrica asignada máxima (valor eficaz). RU Максимальный сетевой ток (эффективное значение) NL Maximale nominale voedingsstroom (effectieve waarde) IT Corrente d'alimentazione nominale massima (valore effettivo)
I1eff	FR Courant d'alimentation effectif maximal EN Maximum effective power supply current. DE Maximaler effektiver Versorgungsstrom ES Corriente de alimentación eléctrica máxima. RU Максимальный эффективный сетевой ток NL Maximale effectieve voedingsstroom IT Corrente effettivo massimo di alimentazione
	FR Matériel conforme aux Directives européennes. La déclaration UE de conformité est disponible sur notre site (voir à la page de couverture). EN Device complies with european directives. The EU declaration of conformity is available on our website (see cover page). DE Gerät entspricht europäischen Richtlinien. Die Konformitätserklärung finden Sie auf unserer Webseite. ES Aparato conforme a las directivas europeas. La declaración de conformidad UE está disponible en nuestra página web (dirección en la portada). RU Устройство соответствует директивам Евросоюза. Декларация о соответствии доступна для просмотра на нашем сайте (ссылка на обложке). NL Apparaat in overeenstemming met de Europese richtlijnen. De verklaring van overeenstemming is te downloaden op onze website (adres vermeld op de omslag). IT Materiale in conformità alle Direttive europee. La dichiarazione di conformità è disponibile sul nostro sito (vedere sulla copertina).
	FR Matériel conforme aux exigences britanniques. La déclaration de conformité britannique est disponible sur notre site (voir à la page de couverture). EN Equipment in compliance with British requirements. The British Declaration of Conformity is available on our website (see home page). DE Das Gerät entspricht den britischen Richtlinien und Normen. Die Konformitätserklärung für Grossbritannien ist auf unserer Internetseite verfügbar (siehe Titelseite). ES Equipo conforme a los requisitos británicos. La Declaración de Conformidad Británica está disponible en nuestra página web (véase la portada). RU Материал соответствует требованиям Великобритании. Заявление о соответствии для Великобритании доступно на нашем веб-сайте (см. главную страницу) NL Materiaal conform aan de Britse eisen. De Britse verklaring van overeenkomst is beschikbaar op onze website (zie omslagpagina). IT Materiale conforme alle esigenze britanniche. La dichiarazione di conformità britannica è disponibile sul nostro sito (vedere pagina di copertina).
	FR Matériel conforme aux normes Marocaines. La déclaration C _ρ (CMIM) de conformité est disponible sur notre site (voir à la page de couverture). EN Equipment in conformity with Moroccan standards. The declaration C _ρ (CMIM) of conformity is available on our website (see cover page). DE Das Gerät entspricht die marokkanischen Standards. Die Konformitätserklärung C _ρ (CMIM) ist auf unserer Webseite verfügbar (siehe Titelseite). ES Equipamiento conforme a las normas marroquíes. La declaración de conformidad C _ρ (CMIM) está disponible en nuestra página web (ver página de portada). RU Товар соответствует нормам Марокко. Декларация C _ρ (CMIM) доступна для скачивания на нашем сайте (см на титульной странице). NL Dit materiaal voldoet aan de Marokkaanse normen. De verklaring C _ρ (CMIM) van overeenstemming is beschikbaar op onze internet site (vermeld op de omslag). IT Materiale conforme alle normative marocchine. La dichiarazione C _ρ (CMIM) di conformità è disponibile sul nostro sito (vedi scheda del prodotto).
IEC 60974-1 IEC 60974-10 Class A	FR L'appareil respecte la norme EN60974-1 et EN 60971-10 appareil de classe A. EN The device is compliant with standard EN60974-1 and EN60971-10 class A device. DE Das Gerät erfüllt die Norm EN 60974-1 und EN 60971-10 der Geräteklasse A ES El aparato se ajusta a la norma EN60974-1 y EN 60971-10, aparato de clase A. RU Аппарат соответствует нормам EN60974-1 и EN60971-10 аппарат класса A. NL Dit klasse A apparaat voldoet aan de EN60974-1 en EN60971-10 normen. IT Il dispositivo rispetta la norma EN60974-1 e EN 60971-10 dispositivo classe A.

IEC 60974-5	<p>FR L'appareil respecte la norme EN 60974-5. EN This product is compliant with standard EN 60974-5. DE Das Gerät entspricht der Norm EN 60974-5. ES El aparato es conforme a las normas EN60974-5. RU Аппарат соблюдает нормы EN 60974-5. NL Het apparaat voldoet aan de norm EN 60974-5. IT Il dispositivo rispetta la norma EN 60974-5.</p>
	<p>FR Ce matériel faisant l'objet d'une collecte sélective selon la directive européenne 2012/19/UE. Ne pas jeter dans une poubelle domestique ! EN This hardware is subject to waste collection according to the European directives 2012/19/EU. Do not throw out in a domestic bin ! DE Für die Entsorgung Ihres Gerätes gelten besondere Bestimmungen (sondermüll) gemäß europäische Bestimmung 2012/19/EU. Es darf nicht mit dem Hausmüll entsorgt werden! ES Este material requiere una recogida de basuras selectiva según la directiva europea 2012/19/UE. ¡No tirar este producto a la basura doméstica! RU Это оборудование подлежит переработке согласно директиве Евросоюза 2012/19/UE. Не выбрасывать в общий мусоросборник! NL Afzonderlijke inzameling vereist volgens de Europese richtlijn 2012/19/UE. Gooi het apparaat niet bij het huishoudelijk afval ! IT Questo materiale è soggetto alla raccolta differenziata seguendo la direttiva europea 2012/19/UE. Non smaltire con i rifiuti domestici!</p>
	<p>FR Produit recyclable qui relève d'une consigne de tri. EN This product should be recycled appropriately DE Recyclingprodukt, das gesondert entsorgt werden muss. ES Producto reciclable que requiere una separación determinada. RU Этот аппарат подлежит утилизации. NL Product recyclebaar, niet bij het huishoudelijk afval gooien IT Prodotto riciclabile soggetto a raccolta differenziata.</p>
	<p>FR Marque de conformité EAC (Communauté économique Eurasienne) EN EAEC Conformity marking (Eurasian Economic Community). DE EAC-Konformitätszeichen (Eurasische Wirtschaftsgemeinschaft) ES Marca de conformidad EAC (Comunidad económica euroasiática). RU Знак соответствия EAC (Евразийское экономическое сообщество) NL EAC (Euraziatische Economische Gemeenschap) merkteken van overeenstemming IT Marca di conformità EAC (Comunità Economica Eurasiatica)</p>
	<p>FR Information sur la température (protection thermique) EN Temperature information (thermal protection) DE Information zur Temperatur (Thermoschutz) ES Información sobre la temperatura (protección térmica) RU Информация по температуре (термозащита). NL Informatie over de temperatuur (thermische beveiliging) IT Informazione sulla temperatura (protezione termiche)</p>
	<p>FR Entrée de gaz EN Gas input DE Gaseingang ES Entrada de gas RU Подача газа NL Ingang gas IT Entrata di gas</p>
<p>IP21</p>	<p>FR Protégé contre l'accès aux parties dangereuses des corps solides de diam>12,5mm (équivalent doigt de la main) et contre les chutes verticales de gouttes d'eau. EN Protected against access to dangerous parts of solid bodies with a diameter >12.5mm (equivalent to the finger of the hand) and against vertical drops of water. DE Schutz vor Eindringen von festen Fremdkörpern (Durchmesser >12,5mm = Finger einer Hand). Schutz gegen Berühren mit einem Finger und senkrecht fallendes Tropfwasser. ES Protegido contra el acceso a partes peligrosas de cuerpos sólidos de diámetro > 12,5mm (equivalente al dedo de la mano) y contra gotas verticales de agua. RU Защищен против доступа твердых тел диаметром > 12,5 мм (размером с палец руки) в опасные места. Защищен против доступа пальцев в опасные места и против вертикального попадания капель воды. NL Beschermd tegen de toegang tot gevaarlijke delen van vaste lichamen met een diameter >12,5 mm (gelijk aan de vinger van de hand) en tegen verticale waterdruppels. IT Protetto contro l'accesso a parti pericolose di corpi solidi di diam>12,5mm (equivalente al dito della mano) e contro le gocce d'acqua verticali.</p>
	<p>FR Matériel ventilé EN Fan cooled hardware. DE Lüfter. ES Material ventilado. RU Вентилируемое оборудование. NL Geventileerd materiaal. IT Materiale ventilato PT Material ventilado. PL Wentylacja urządzenia</p>
 <p>START</p>	<p>FR Marche (mise sous tension) EN On (power on) DE Ein (Einschalten) ES On (encendido) RU Вкл (включение) NL Aan (stroom aan) IT On (accensione) PT Ligar (ligar) PL On (accensione) DA On (tændt)</p>
 <p>STOP</p>	<p>FR Arrêt (mise hors tension) EN Off (power off) DE Aus (Ausschalten) ES Off (apagado) RU Выкл (выключение) NL Uit (stroom uit) IT Off (spegnimento) PT Desligar (desligar) PL Off (spegnimento) DA Off (slukket)</p>
	<p>FR Le dispositif de déconnexion de sécurité est constitué par la prise secteur en coordination avec l'installation électrique domestique. L'utilisateur doit s'assurer de l'accessibilité de la prise EN The safety disconnection device is a combination of the power socket in coordination with the electrical installation. The user has to make sure that the plug can be reached. DE Die Stromunterbrechung erfolgt durch Trennen des Netzsteckers vom häuslichen Stromnetz. Der Gerätanwender sollte den freien Zugang zum Netzstecker immer gewährleisten. ES El dispositivo de desconexión de seguridad se constituye de la toma de la red eléctrica en coordinación con la instalación eléctrica doméstica. El usuario debe asegurarse de la accesibilidad de la toma de corriente. RU Устройство безопасности отключения состоит из вилки, соответствующей домашней электросети. Пользователь должен обеспечить доступ к вилке. NL De veiligheidsontkoppeling van het apparaat bestaat uit de stekker samen met de elektrische installatie. De gebruiker moet zich ervan verzekeren dat de elektrische aansluitingen goed toegankelijk zijn. IT Il dispositivo di scollegamento di sicurezza è costituito dalla presa in coordinazione con l'installazione elettrica domestica. L'utente deve assicurarsi dell'accessibilità della presa PT O dispositivo de desconexão de segurança é constituído pela tomada de rede em coordenação com a instalação elétrica doméstica. O usuário deve garantir a acessibilidade da tomada. PL Rozłącznik bezpiecznikowy składa się z wtyczki sieciowej skoordynowanej z domową instalacją elektryczną. Użytkownik musi upewnić się, że ma odpowiedni dostęp do gniazdka.</p>

**GYS France**

Siège social / Headquarter
1, rue de la Croix des Landes - CS 54159
53941 Saint-berthevin Cedex
France

www.gys.fr
+33 2 43 01 23 60
service.client@gys.fr

GYS Italia

Filiale / Filiale
Vega – Parco Scientifico Tecnologico di
Venezia
Via delle Industrie, 25/4
30175 Marghera - VE
Italia

www.gys-welding.com
+39 041 53 21 565
italia@gys.fr

GYS UK

Filiale / Subsidiary
Unit 3
Great Central Way
CV21 3XH - Rugby - Warwickshire
United Kingdom

www.gys-welding.com
+44 1926 338 609
uk@gys.fr

GYS China

Filiale / 子公司
6666 Songze Road,
Qingpu District
201706 Shanghai
China

www.gys-china.com.cn
+86 6221 4461
contact@gys-china.com.cn

GYS GmbH

Filiale / Niederlassung
Professor-Wieler-Straße 11
52070 Aachen
Deutschland

www.gys-schweissen.com
+49 241 / 189-23-710
aachen@gys.fr

GYS Iberica

Filiale / Filial
Avenida Pirineos 31, local 9
28703 San Sebastian de los reyes
España

www.gys-welding.com
+34 917.409.790
iberica@gys.fr