

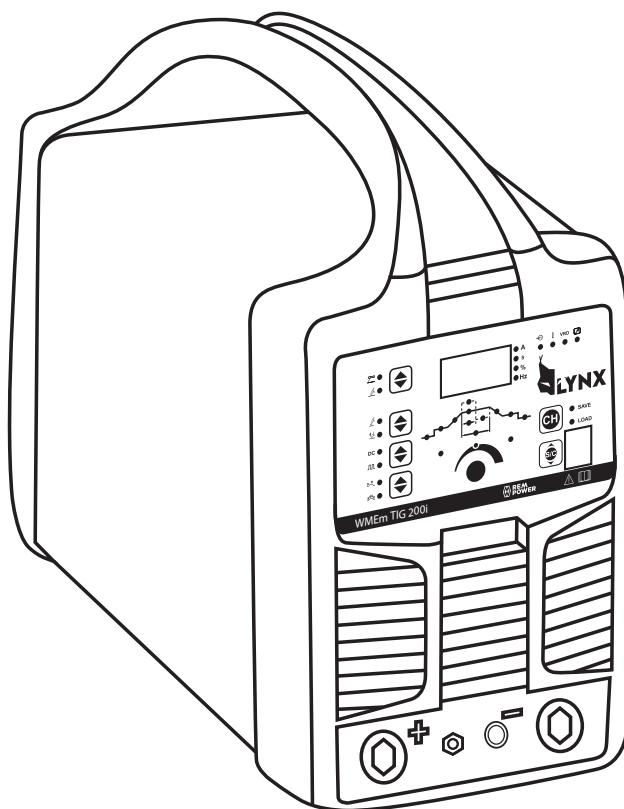


**REM
POWER®**
Rheinland Elektro Maschinen

LYNX

WME_m TIG 200i

- EN WELDING MACHINE**
OPERATING INSTRUCTION
- DE SCHWEISSMASCHINE**
BEDIENUNGSANLEITUNG
- SI VARILNI APARAT**
NAVODILA ZA UPORABO
- HR APARAT ZA VARENJE**
UPUTE ZA UPORABU
- MK АПАРАТ ЗА ЗАВАРУВАЊЕ**
УПАТСТВА ЗА УПОТРЕБА
- BG МАШИНА ЗА ЗАВАРУВАЊЕ**
ИНСТРУКЦИИ ЗА УПОТРЕБА



www.rem-maschinen.com

www.rem-power.com

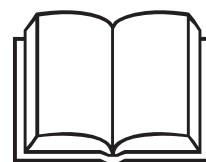


Lesen Sie die
Bedienungsanleitung
gründlich, bevor Sie
den Generator in
Betrieb nehmen.

Read and
understand the
Owner's Manual
before operating the
generator.

Preberite navodila
za uporabo, pred
zagonom
generatorja

Pročitajte upute za
upotrebu, pre
uporabe generatora





WARNING:

Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

CATALOGUE

General Safety Rules

Welder Instruction

Safety Usage

Technical Specifications

Functions

Current Adjustment Instruction

Welder Installation

Operations Methods

Common faults and solving methods

Delivery & Storage

GENERAL SAFETY RULES



WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.



CAUTION: Do not allow persons to operate or assemble this **WMEM TIG 200I LYNX**

until they have read this manual and have developed a thorough understanding of how the **WMEM TIG 200I LYNX** works.



WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

IMPORTANT SAFETY CONSIDERATIONS

1.1 Your Welding Environment

- Keep the environment you will be welding in free from flammable materials.
- Always keep a fire extinguisher accessible to your welding environment.
- Always have a qualified person install and operate this equipment.
- Make sure the area is clean, dry and ventilated. Do not operate the welder in humid, wet or poorly ventilated areas.
- Always have your welder maintained by a qualified technician in accordance with local, state and national codes.
- Always be aware of your work environment. Be sure to keep other people, especially children, away from you while welding.
- Keep harmful arc rays shielded from the view of others.
- Mount the welder on a secure bench or cart that will keep the welder secure and prevent it from tipping over or falling.

1.2 Your Welder's Condition

- Check ground cable, power cord and welding cable to be sure the insulation is not damaged. Always replace or repair damaged components before using the welder.
- Check all components to ensure they are clean and in good operating condition before use.

1.3 Use of Your Welder

CAUTION

Do not operate the welder if the output cable, electrode, torch, wire or wire feed system is wet. Do not immerse them in water. These components and the welder must be completely dry before attempting to use them.

- Follow the instructions in this manual.

- Keep welder in the off position when not in use.
- Connect ground lead as close to the area being welded as possible to ensure a good ground.
- Do not allow any body part to come in contact with the welding wire if you are in contact with the material being welded, ground or electrode from another welder.
- Do not weld if you are in an awkward position. Always have a secure stance while welding to prevent accidents. Wear a safety harness if working above ground.
- Do not drape cables over or around your body.
- Wear a full coverage helmet with appropriate shade (see ANSI Z87.1 safety standard) and safety glasses while welding.
- Wear proper gloves and protective clothing to prevent your skin from being exposed to hot metals, UV and IR rays.
- Do not overuse or overheat your welder. Allow proper cooling time between duty cycles.
- Keep hands and fingers away from moving parts and stay away from the drive rolls.
- Do not point torch at any body part of yourself or anyone else.
- Always use this welder in the rated duty cycle to prevent excessive heat and failure.

1.4 Specific Areas of Danger, Caution or Warning



Electrical Shock

▲ WARNING

Electric arc welders can produce a shock that can cause injury or death. Touching electrically live parts can cause fatal shocks and severe burns. While welding, all metal components connected to the wire are electrically hot. Poor ground connections are a hazard, so secure the ground lead before welding.

- Wear dry protective apparel: coat, shirt, gloves and insulated footwear.
- Insulate yourself from the work piece. Avoid contacting the work piece or ground.
- Do not attempt to repair or maintain the welder while the power is on.
- Inspect all cables and cords for any exposed wire and replace immediately if found.
- Use only recommended replacement cables and cords.
- Always attach ground clamp to the work piece or work table as close to the weld area as possible.
- Do not touch the welding wire and the ground or grounded work piece at the same time.
- Do not use a welder to thaw frozen pipes.

Fumes and Gases

▲ WARNING

- Fumes emitted from the welding process displace clean air and can result in injury or death.
- Do not breathe in fumes emitted by the welding process. Make sure your breathing air is clean and safe.
- Work only in a well-ventilated area or use a ventilation device to remove welding fumes from the environment where you will be working.
- Do not weld on coated materials (galvanized, cadmium plated or containing zinc, mercury or barium). They will emit harmful fumes that are dangerous to breathe. If necessary use a ventilator, respirator with air supply or remove the coating from the material in the weld area.
- The fumes emitted from some metals when heated are extremely toxic. Refer to the material safety data sheet for the manufacturer's instructions.
- Do not weld near materials that will emit toxic fumes when heated. Vapors from cleaners, sprays and degreasers can be highly toxic when heated.



UV and IR Arc Rays

⚠ DANGER

The welding arc produces ultraviolet (UV) and infrared (IR) rays that can cause injury to your eyes and skin. Do not look at the welding arc without proper eye protection.

- Always use a helmet that covers your full face from the neck to top of head and to the back of each ear.
- Use a lens that meets ANSI standards and safety glasses. For welders under 160 Amps output, use a shade 10 lens; for above 160 Amps, use a shade 12. Refer to the ANSI standard Z87.1 for more information.
- Cover all bare skin areas exposed to the arc with protective clothing and shoes. Flame-retardant cloth or leather shirts, coats, pants or coveralls are available for protection.
- Use screens or other barriers to protect other people from the arc rays emitted from your welding.
- Warn people in your welding area when you are going to strike an arc so they can protect themselves.



Fire Hazards

⚠ WARNING

Do not weld on containers or pipes that contain or have had flammable, gaseous or liquid combustibles in them. Welding creates sparks and heat that can ignite flammable and explosive materials.

- Do not operate any electric arc welder in areas where flammable or explosive materials are present.
- Remove all flammable materials within 35 feet of the welding arc. If removal is not possible, tightly cover them with fireproof covers.
- Take precautions to ensure that flying sparks do not cause fires or explosions in hidden areas, cracks or areas you cannot see.
- Keep a fire extinguisher close in the case of fire.
- Wear garments that are oil-free with no pockets or cuffs that will collect sparks.
- Do not have on your person any items that are combustible, such as lighters or matches.
- Keep work lead connected as close to the weld area as possible to prevent any unknown, unintended paths of electrical current from causing electrical shock and fire hazards.
- To prevent any unintended arcs, cut wire back to 1/4" stick out after welding.

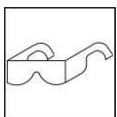


Hot Materials

⚠ CAUTION

Welded materials are hot and can cause severe burns if handled improperly.

- Do not touch welded materials with bare hands.
- Do not touch TIG gun nozzle after welding until it has had time to cool down.



Sparks/Flying Debris

⚠ CAUTION

Welding creates hot sparks that can cause injury. Chipping slag off welds creates flying debris.

- Wear protective apparel at all times: ANSI-approved safety glasses or shield, welder's hat and ear plugs to keep sparks out of ears and hair.



Electromagnetic Field

⚠ CAUTION

- Electromagnetic fields can interfere with various electrical and electronic devices such as pacemakers.

- Consult your doctor before using any electric arc welder or cutting device
- Keep people with pacemakers away from your welding area when welding.
- Do not wrap cable around your body while welding.
- Wrap TIG gun and ground cable together whenever possible.
- Keep TIG gun and ground cables on the same side of your body.



Shielding Gas Cylinders Can Explode

⚠ WARNING

High pressure cylinders can explode if damaged, so treat them carefully.

- Never expose cylinders to high heat, sparks, open flames, mechanical shocks or arcs.
- Do not touch cylinder with TIG gun.
- Do not weld on the cylinder
- Always secure cylinder upright to a cart or stationary object.
- Keep cylinders away from welding or electrical circuits.
- Use the proper regulators, gas hose and fittings for the specific application.
- Do not look into the valve when opening it.
- Use protective cylinder cap whenever possible

1.5 Proper Care, Maintenance and Repair

⚠ DANGER

- Always have power disconnected when working on internal components.
- Do not touch or handle PC board without being properly grounded with a wrist strap. Put PC board in static proof bag to move or ship.
- Do not put hands or fingers near moving parts such as drive rolls of fan

WMEM TIG 200I LYNX SERIES USE AND CARE

- **Do not modify the WMEM TIG 200I LYNX in any way.** Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the WMEM TIG 200I LYNX was designed.
- **Always check of damaged or worn out parts before using the WMEM TIG 200I LYNX.** Broken parts will affect the **WMEM TIG 200I LYNX**. operation. Replace or repair damaged or worn parts immediately.
- **Store idle WMEM TIG 200I LYNX.** When **WMEM TIG 200I LYNX** is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.

Welders Instructions

WMEM TIG 200I LYNX pulse inverter welder uses inert gases (Argon) as the protection medium for the arc, using high frequency or high pulse to do the gas ionization and melt metals by the arc, made between the tungsten electrode and work piece, to reach the welding purpose. It can give fast good compensation for power grids fluctuation, and can control accurately for various welding process. Thus, it is smooth soft, little splash and easy appearance of weld. In the welding of high strength steel and low carbon steel, stainless steel, alloy steel materials can easy get good appearance of weld.

The characteristics of the argon arc welding machines is:

- The tungsten is not melting, arc is stable, easy to control welding quality during welding.
- It can do wire filling, also without wire filling, is suitable for welding sheet, also suitable for thick plate..
- The arc heat concentration, the work piece de-formation less than the mig machines and MMA machines.
- Suitable for all position welding.
- Especially suitable for welding sheet below 3 mm, also can get good welding quality for less than 1 mm thick sheet.
- Soft arc, arc concentricity is good, fillet welding is easy, and reliable positioning welding.

WMEM TIG 200I LYNX series inverter dc pulse argon arc welding machine adopts the advanced inverter technology, using international advanced IGBT as a converter, supplemented by special development control circuit, make the whole machine has high reliability, fast dynamic response, stable arc characteristics. This series welding machine has: dc pulse argon arc welding, dc MMA arc welding, and many other functions, can satisfy the requirement of all kinds of welding process. Its widely used in pressure vessels, construction, shipbuilding, petrochemical industries.

This manual as content has errors, or welding machine function change, will change this manual at any time, without prior notice.

Safety Operation

Operator's self protection:

- * Comply the work safety, sanitation rules, wear relevant work protection equipments to avoid the damage to eyes and skins.
- * In welding time, cover head by the welding face shield, watch the arc only through the observing windows on the welding veil.
- * Do not let any part of your body touch the two output poles (Electrode pole and work pole) of the welders at one time, before you are under the insulated protection.
- * Do not weld in water or high humidity places.

Operator's notices

- * WMEM TIG 200I LYNX pulse inverter TIG welder is electric equipment. Its spare parts are fragile. So do not change or adjust with a rush otherwise the switch will be damaged.
- * Before every welding work, check carefully whether the welder's correction & earth wire are correct and reliable.
- * Inflammable or explosive materials are prohibited in the welding areas.
- * To ensure the air flow in the welding areas, as the welding smoke is bad for the health.
- * Isolate the arc light to protect others
- * Irrelevant persons are not allowed to enter into the welding area. Forbid to adjust or move the welders in the

welding time.

- * Welders have strong electromagnetism and electric frequency disturbs. Do not let near the persons with heart pacemaker or easily affected by electromagnetism and electric frequency.
- * Do not press, pile or stress the welding wires by any apparatus. Do not bend the welding wires into very small angle, otherwise it would hurt the inside wires to cause the hidden troubles.
- * Do not touch any output joints with electric in the welding time.
- * Forbid to use the welder for the pipe ice-out.
- * Deliver the welder by forking machine or with base. Forbid to move by handles above the welders.
- * Pay high attention on the rated duty cycle of welders to avoid the overload.

Safety protection in the welder's installed and used places

- * Protection on persons and welders under areas, where there are items dropped down.
- * Dusts, Acid, Causticity airs or materials contents in the welding area air to be lower than the relevant standards (except for these caused by the welding)
- * Inflammable ,explosive or other dangerous materials are prohibited in the welding areas.
- * The welders should be installed in these places, without direct sunshine, rain drench, lower humidity, -10~+40°C .
- * 50cm space to be ensured around the welders for the nice airness.
- * Metal eyewinker not allowed into the welders.
- * No strong shake allowed in the welding area.
- * Protect the welder from the dumpage, when the welders put in the over 10° declining plane.
- * Choose the installation area to avoid any disturbs to other electromagnetic equipments, when the welders used.
- * Block the wind, when the air protection welding used.

Safety Check

Operator should check below procedures before every welding job:

- * **Make sure the welder's earth protection is reliably connected.**
- * Make sure the welder's input, output wires is fine, not exposed outside.
After the fixing of the welders, make safety check each six months by qualified persons.
- * Make sure no spare parts not tightened inside the welder and clear the dusts.
- * Check the spare parts on the welder panel to ensure the welder could work well.
- * Check the welding wires whether aged for used
- * Check the input wires whether damaged or not. If damaged, improve it.
- * Check the power supply network to ensure its capacity could make the welder work normally. Ensure welder's input power source have security protection device.



Cut off the power supply before opening the case to check.

Please do not hesitate to contact us for technical assistance whenever you come across the problems you can not work out or you may deem difficult to fix

Technical Specifications

Environment Conditions

* Ambient air temperature range:

5~+40℃ in welding, water cooling

-10~+40℃ in welding, air cooling

-25~+55℃ in delivery, storage

* Air relevant humidity: in 40℃, ≤50%; in 20℃, ≤90%

* Dusts, Acid, Causticity airs or materials contents in the welding area air lower than the relevant standards (except for these caused by the welding), No strong shake allowed in the welding area.

* Altitude degree lower than 1000m

* Protect for the rain, when the welder to be used outdoor.

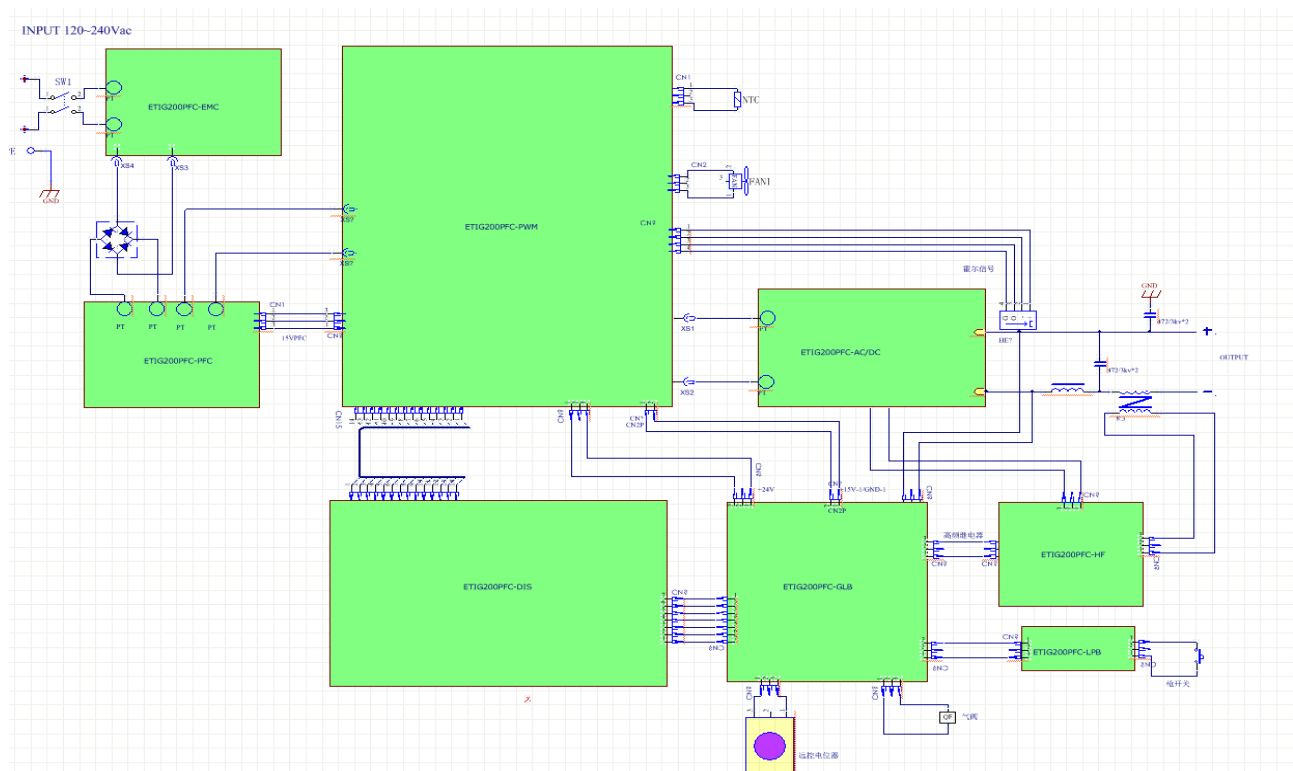
* Wind speed less than 1m/s

Power supply net requirements

* Power voltage wave shape should be the actual sine wave, frequency wave less than ±1% of its rated amount.

* Power voltage wave less than ±15% of its rated amount.

Main principles of the welders



WMEM TIG 200I LYNX series inverter dc pulse argon arc welding machine adopts the international advanced IGBT and fast recovery diode as the main power device of power transformation and transmission, can accurately control the arc, supplemented by gas pre-flow and gas post-flow, non-contact high-frequency arc, can guarantee the arc starting and stable welding. Combine with various protection functions make welding machine quality is reliable.

Welding machine get 120 ~ 230V AC power through wave form switch SW1, rectify by BD1 single-phase rectifier, the capacitor C1 ~ C4 filtering into direct current (dc), via the IGBT (Q1, Q2, Q3 and Q4) composed of bridge type inverter ac inverter into 33 KHz AC POWER, then through intermediate frequency transformer T1 transformer, after fast recovery D1-3, D4-6 rectifier, offering the stable DC power. In the output at the same time, via high pressure of coupling transformer T2 arc with high frequency pulse coupled to the output of the negative

side, for non-contact start arc conveniently.

Main structure of the welders

WMEM TIG 200I LYNX series inverter dc pulse argon arc welding machine used to move around freely enclosure structure: the upper part on the front panel is equipped with digital displayer, current welding mode selection button, over voltage indicator, overheat lights, parameter adjustment of the indicator knob; The lower part is equipped with "+" quick socket output current, output current "-" quick socket, welding gun control cable interface, as well as the welding torch gas interface; Rear panel is equipped with cooling fan, power input lead, and the power switch, and argon gas input interface; At the bottom of the box body is equipped with four feet and the handle.

Main technical specifications of the welder

No special advice on above parameter. The nameplate parameter on the welder is prior.

ITEM	UNIT	WMEM TIG 200I LYNX
Rated Input Voltage	V	120~230
Power Frequency	Hz	50/60
Rated Input Capacity	KVA	6
Rated Input Current	A	30/26
Output No Load Voltage	V	78
Rated Working Voltage	V	TIG14.8V/MMA27.2V
TIG welding current	A	230Vac: 10~200 120Vac: 10~120
Welding Current	A	10~200
Base value current	%	10~95
Current rise Time	s	0~15
Current Drop Time	s	0~25
Pulse Frequency	Hz	0.2~200
Duty cycle	%	10~90
Gas pre-flow time	s	0~5
Gas post flow Time	s	1~15
Rated Duty Cycle	%	30
Cooling Type		Wind Cooling
Effiency	η	$\geq 85\%$
Power Factor	$\cos\phi$	0.73
Insulation Degree		H
Cover Protection Degree	IP	IP21S
Weight	kg	10.3
Dimension L×W×H	mm	472X185X340

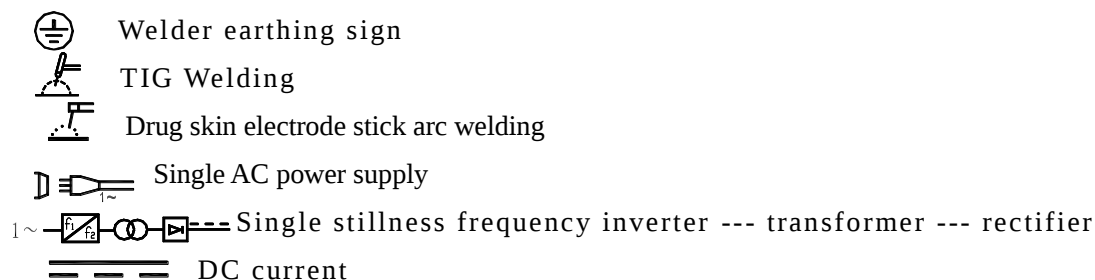
Standards of the welders

The WMEM TIG 200I LYNX series Inverter TIG Welder according to the following standard EN60974-1

High frequency arc pilot method instruction

This kind of arc pilot method is absolutely different with the traditional arc pilot method. It does not need to connect Tungsten electrode with the work piece. It uses high voltage & high frequency pulse to make ionization on the air, transmitting the electricity by the air after ionization, and form the arc.

Remark of Illustration



+ : + Electrode

— : - Electrode

X: Duty Cycle

I_{1max} ...A: Rated max input current

I_{1eff} ...A: Max usable input current

I_2 : Rated welding current

U_0 ...V: Rated without load voltage

U_1 ...V: Rated input voltage

U_2 : Rated load voltage

~50/60Hz: AC current, rated frequency 50Hz, usable frequency 60Hz

...V: Rated load voltage value

...A: Rated welding current value

...%: Duty cycle value

...A/...V~...A/...V: Output range, Rated min and max welding current and relevant rated load voltage

IP21S: Case protection degree. IP means International Protection. 2 means to prevent people use their fingers to reach the dangerous parts; Prevent solid eyewinker, diameter less than 12.5mm, to enter into the case; 1 means to prevent upright drip; Upright drip should have no bad influence. S means that the water protection test was made when the moving parts (such as the rotor of the rotary motor) was stopped.

H: Class H Insulation Degree

Functions

Manual metal-arc welding

This mode is equivalent to the function of the dc arc welding machine, the manual welding electrode welding function。

Argon arc welding

Widely used in a variety of carbon steel, alloy steel, stainless steel, copper and copper alloys, nickel and nickel alloy welding, especially suitable for thin plate welding (3 mm or less) and plate (> 3 mm) in the opening of one side welding groove butt weld, double-sided molding, backing welding process, especially suitable for argon arc welding backing, dc manual arc welding more than cover the welding process.

DC pulse argon arc welding

Panel Settings "hand arc/argon arc" the argon arc position, "steps 2/4" set "step 2" position. Panel Settings "hand arc/argon arc" the argon arc position, "steps 2/4" set "step 2" position.

Is suitable for thin plate welding, and is suitable for any position of continuous welding, do not need to adjust the welding specification for welding position change. In addition to get the big melt in both deep, and expect to reduce the welding heat affected zone, pulse welding current, base value current, pulse width of the reasonable choice will be good to meet specific needs。 Pulse welding current is to strengthen the mixing of molten pool, to minimize the pores. Under the same line energy, dc pulse arc than dc constant current arc penetration is big, pulse current of coagulation, form and normal form is different, it can improve the mechanical properties of a particular joint. Properly adjusting the parameters of the pulse and the welding speed, smooth dc pulse argon arc welding can form uniform and controllable fusion zone (scales).

Pulse frequency (WMEM TIG 200I LYNX series)

Pulse: Is in a state of current (dc), to the current surge in the form of a pattern. The current supply in pulse way, set up the welding current and base current, set the pulse frequency and pulse width parameter.

“2step/4step” option

Under argon arc welding method, the "steps" 2/4 "" set in step [4], press the torch switch, arc is established and began to burn, the arc work in" striking current ", At this time you can put away the torch switch, electric arc by the striking current phase shifted to the current slow rise stage, after the current slow appreciation set current into the welding current stage; Again press the gun switch, electric arc by the welding current into the "current slow down" phase, when the current drop to crater arc current stage in "crater arc current, the loosen rob switch, arc extinguishing, welding process is over. Without this feature when 2 step.

Current Adjustment Instruction

Welding current

Arc welding current refers to the "hand/argon arc" function mode Settings of the welding current size, at the same time refers to the pulse argon arc welding of pulse peak electric current. At this time of the arc heat is big, the workpiece heated, it is used to welding.

Base Current

Base current means the minimum current in the pulse current welding. In the base current time, the arc has the smallest quantity of heat, so the work piece has the ability to transfer away the quantity of heat in the melted bath, got in the peak time.

Pulse frequency

Pulse frequency refers to the pulse argon arc welding state, the current adjust speed rate between welding current and base value current.

Duty ratio

Duty ratio is welding peak current's ratio during one cycle time under pulse argon arc welding condition. Duty ratio in the range of 15-85% is adjustable. Such as: the frequency of 5 hz (its pulse cycle is 200 ms) of pulse current in each cycle of welding current peak time is 80 ms, so, the duty ratio of pulse are as follows: $80 \div 200 \times 100\% = 40\%$.

The current slow rise time

Current slow rise time refers to the time of from starting arc current to normal current for welding. It uses to slow down the current rising rate, current slow rise, gradually melted the artifacts, ensure that when the welding current will suddenly increase.

The current slow down time

Current ramp down time refers to the time of from the welding current dropped to reap arc current. It slows the rate of decline in current and electric current to slow down, gradually submerged arc pit, ensure the quality of welding at the end of the welding.

Gas pre-flow

It refers to setting a suitable gas delivery time before the arc ignition in advance. It can ensure the starting point of the molten pool is not oxidation.

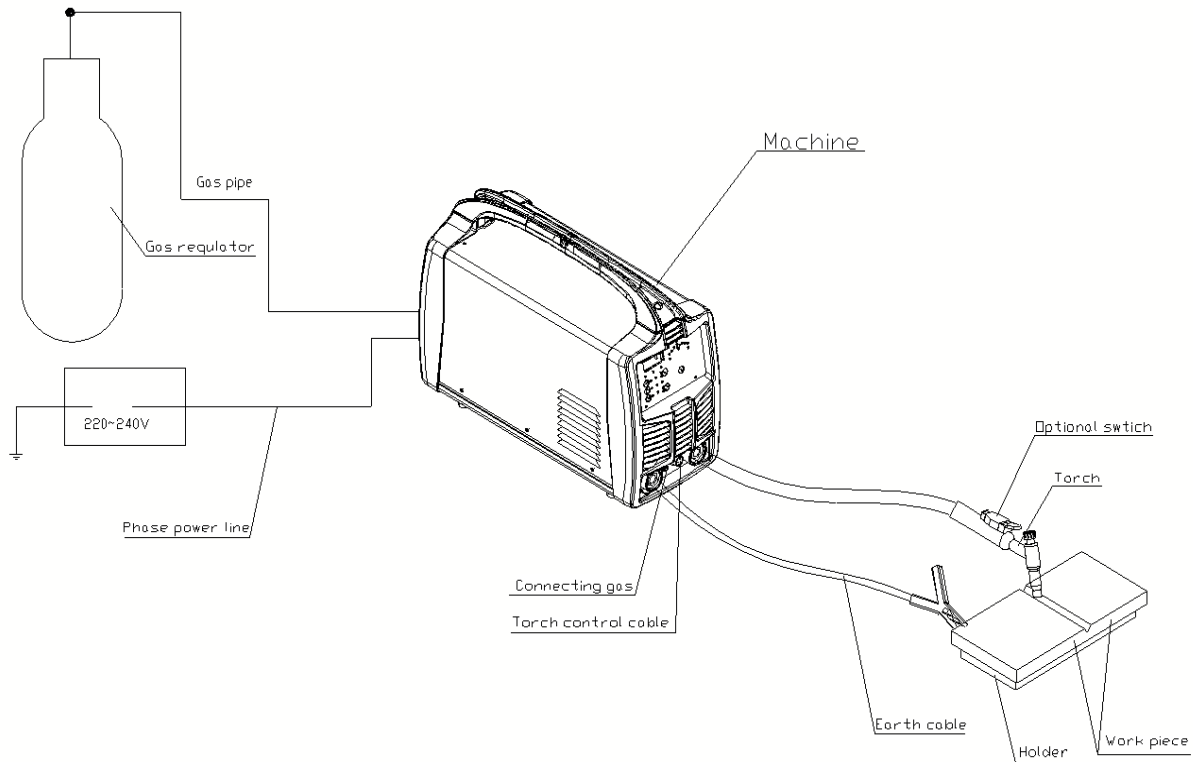
Gas stopping delay time

Gas stopping delay time means the protection gas feeding time value after the arc winked to protect the work piece away from the oxidation. It's very necessary to continue feeding the protection gas into the melted bath after the welding finished, as the melted bath still needs some cooling time, as though the winked arc could not heat the work piece any more. This welder set inside to be about 5s (changeable according to customer's requirements).

Welder Installation

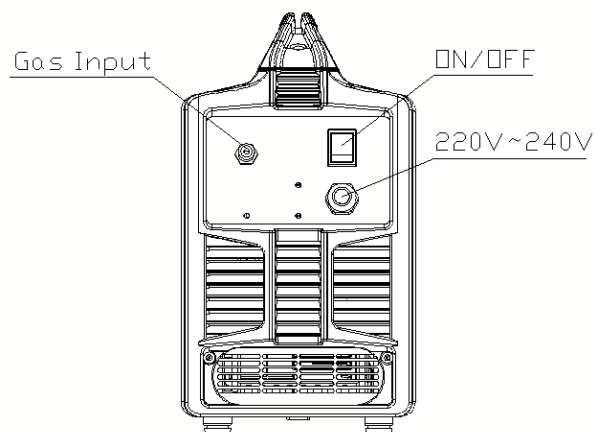
Welder Placement

- * Welder should be placed in the dry, dustless place, without chemical caustic, flammable, explosive gas or goods around.
- * Avoiding direct sunshine or rainfall, ambient temperature in the range of $-10\sim 40^{\circ}\text{C}$ (water cooling model, $5\sim 40^{\circ}\text{C}$)
- * Apparatus to exclude wind and smoke should be equipped if the inside aeration is not sound.



Connected with power source (see the input wiring drawing)

Connect the **【Power input wire】** in the behind plate of the welder into the $120\sim 230\text{V}$ power source (electricity network), with circuit breakers and earthing wires; Forbid to input 380V power source into the welder (380V power source will damage the welder badly); Forbid to input the earthing wire into the electricity network, otherwise you would bear the results yourself. **Notice:** Connect the electricity network with earth, instead of Zero.



Input wiring drawing

* Power supply configuration of one welder:

Item	WMEM TIG 200I LYNX
ACB (A)	≥ 40
FUSE (A)	40
KNIFE SWITCH (A)	≥ 60
POWER LINE (mm ²)	≥ 4

Note: the breaking current of fuse is twice of its rated working current.

Connected with Argon (see the input wiring drawing)

Install the decompression valve (Argon meter) onto the Argon bottle, connect the gas hole on the Argon bottle with the Argon input hole on the behind panel of the welder with the gas pipe, supplied together with the welder, tighten the holes with also supplied loop.

Connected with work piece (see the input wiring drawing)

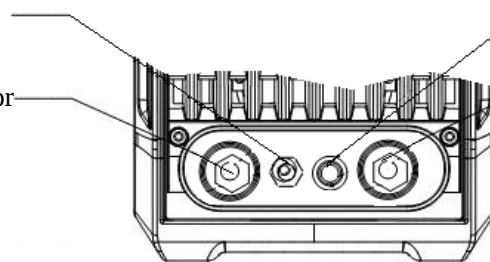
Insert the quick plug of the cable into the 【Power output “+” Electrode quick Socket】in the front panel of the welder and tighten clockwise; The earthing clamp in the another end of the cable connected with the work piece.

Gas connector in Torch

Control cable in Torch

Positive quick connector

Negative quick connector



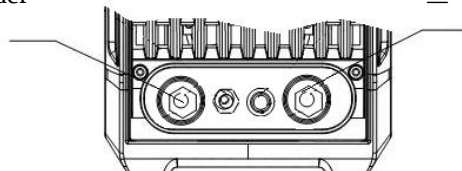
Output wiring drawing

Out put connecting under MMA model

Connecting the cable the “-” in font panel and tighten up, the other end connecting to the work piece

“+” connecting electrode holder

“-” connecting work piece

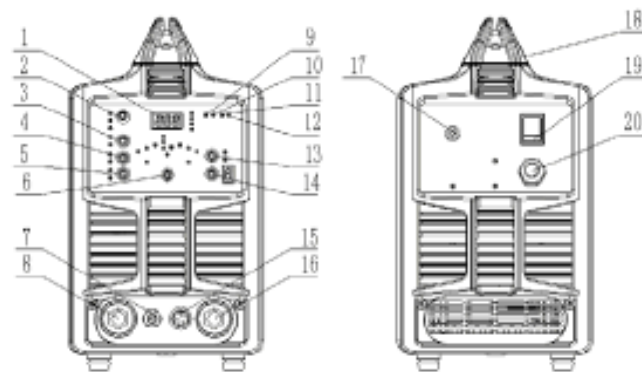


Operation



ATTENTION: The protection grade of WMEM TIG 200I LYNX Welder is IP21S. It is forbidden

to put in a finger or insert a round bar less than 12.5mm (metal bar in particular) into the welder. No heavy force can be employed on the welder.



Front panel		rear panel	
1.digital meter	2.welding mode selection switch	3.TIG mode selection switch	4.Dc/pulse select switch
5.Steps 2/4 option switch	6.Parameter setting knob	7.Gas connector for torch	8.Socket “+”
9.Power indicator	10.Over heat indicator	11.VRD indicator	12.REMOTE
13.save and load	14.Parameters saving	15.Connector for Torch Control	16.Socket “-”
17.Gas connector	18.handle	19.Power switch	20.Power core



Attention:

* The ‘Protection Indicator’ on the panel will be on after a long time operation, it shows that the inner temperature is over the permitted data. The machine should be stopped using for some time to let it cool down. It can continually use after the light is off.

* The power source, Argon valve and cooling water should be switch off after the operation or leaving job site temporarily.

* Welders should dress canvas work suit and wear mask to prevent arc light and thermal radiation;

* Light separating screen should be put in the job site to prevent arc hurting other people;

* Inflammable or explosive materials are prohibited to access the job site;

* Every connector of welder should be connected correctly and grounded reliably

* Manual Arc Welding

When put ‘welding mode selection switch’ on ‘arc welding’ and Dc/pulse select switch on DC position, it can be used as manual arc welding.

Choose Parameter setting knob enter into welding current parameter setting to adjust welding current and also can enter into pushing force current parameter setting to adjust pushing force current.

DC TIG Welding

When put welding mode selection switch on Tig welding and put DC/ pulse select switch on DC position, Put Steps 2/4 option switch on step 2, it can be used as DC TIG Welding.

Choose Parameter setting knob enter into welding current parameter setting to adjust welding current and also can enter into current increasing time parameter setting to adjust increasing time, enter into current decreasing time parameter setting to adjust decreasing time.

Choose Parameter setting knob enter into Postflow Time parameter setting to adjust Postflow Time.

Choose Parameter setting knob enter into Preflow Time parameter setting to adjust Preflow Time

DC Pulse TIG Welding

When put welding mode selection switch on Tig welding and put DC/ pulse select switch on DC position, Put Steps 2/4 option switch on step 2, it can be used as Pulse TIG Welding

Choose Parameter setting knob enter into pulse welding current parameter setting to adjust Pulse welding current.

Choose Parameter setting knob enter into Pulse background current parameter setting to adjust Pulse background current.

Choose Parameter setting knob enter into pulse frequency parameter setting to adjust pulse frequency.

Choose Parameter setting knob enter into duty cycle parameter setting to adjust duty cycle.

Choose Parameter setting knob enter into current increasing time parameter setting to adjust increasing time

Choose Parameter setting knob enter into current decreasing time parameter setting to adjust decreasing time

Choose Parameter setting knob enter into Post flow Time parameter setting to adjust Post flow Time.

Welding regulations parameter table (only for reference)

Mode	Material Type	Designed Joint	WORK Thickness (mm)	Wire Dia Φ (mm)	Welding Current (A)	Polarity	Argon Flow (dm³/min)	Tungsten Stick Dia Φ (mm)	Angle	Top Dia Φ (mm)
DC	Stainless Steel	Vertical Joint	1.6~3.0	1.6~2.5	50~90	DC Positive	8~12	1.0	12~20°	0.12~0.25
		V groove	> 3.0~6.0		70~120			1.6	25~30°	0.50~0.75
		X groove	>6.0~12	2.5~3.2	100~150		10~14	2.4	35~45°	0.75~1.10
Arc welding	Carbon steel	Joint	≤ 4	3.2	160~210		/	/	/	/
			4~12	3~4	210~270		/	/	/	/
			>12	≥ 4	260~300		/	/	/	/

Common faults and solving methods

No.	Breakdown	Analysis	Solutions
1	Cooling fan Not work	Cooling fan broken	Replace the fan
		Cable broken/fallen off	Find the disconnected wire and Connect reliably
2	No piloting high frequency	Torch switch broken	Replace the torch
		Main PC board broken	Replace the PC board
		Cable broken/fallen off	Find the disconnected wire and Connect reliably
3	No Argon output	No Argon input	Check the flow meter and resume supplying gas to the welder
		Main PC board broken	Replace the PC board
		Electromagnetism Valve broken	Change the electromagnetism valve
		Gas path blocked	Clear the eyewinker and dredge the gas path
4	Protection Indicator On	Overheat inside the machine	Become normal after the inside temperature reduced
		Thermal relay broken	Replace the thermal relay
		Over/Lack voltage more Than 15%	Become normal after voltage ok

5	Panel knob not adjustable	Relevant potentiometer broken	Replace the potentiometer
		Main PC board broken	Replace the PC board
		Cable broken/fallen off	Find the disconnected wire and Connect reliably
6	No display on the AMP meter	Digital Amp meter broken	Change the meter
		Cable broken/fallen off	Find the disconnected wire and Connect reliably
		Main PC board broken	Replace the PC board
7	Arc piloting not smooth	Wrong connection between torch and welder	Check and correct according the manual
		Argon not pure	Use 99.99% pure Argon
		Tungsten electrode or pin broken	Use qualified Tungsten electrode
8	Power trip	First turning on after power long time (2days more) off	Not fault, trip caused by the charging filter capacitor in the main board, return on the power switch
9	Others		Please contact with the supplier/manufactuer

Delivery and Storage



* This series welders are base structure and should be delivered by fork vehicle or salver.

Before delivery, fix the welder well.

Note: forbid to deliver the welder by handles

* During the delivery and storage, avoid rain or snow affects to the welders. Notice the warning information on the cartons in loading. Make sure the welder storage dry, ventilation, without caustic gas or dust, temperature between -25 ~ + 55°C, relevant humidity no more than 90%.

* If the welders need to be stored after the carton already unpacked, repack as the old package demands (clean, dry and covered with plastic bag before storage)

* Keep well the cartons, quakeproof blocks, got in purchasing time, for the long distance delivery. If long distance delivery needed, pack with wooden case and make the “UPPER”, “Rain Proof” sign

DISTRIBUTOR

Rheinland Elektro Maschinen GROUP

PC Komenda, Pod lipam 10

SI – 1218 Komenda – **EU**

E – Mail: exp@rem-maschinen.com

[www. rem-power.com](http://www.rem-power.com)

[www. rem-maschinen.com](http://www.rem-maschinen.com)



D EU Konformitäts Erklärung
EN EU declaration of Conformity
FR Déclaration EU de Conformité
IT Dichiarazione EU di Conformità
NL EU verklaring van overeenstemming
SE EU försäkran om överensstämmelse

SI EU izjava o skladnosti
HR EU izjava o skladnosti
SRB EU izjava o usaglašenosti
MK EU izjava za soobraznost
RO EU Declarație de Conformitate
BG EU декларация за съответствие

HU EU megfelelési nyilatkozat
CZ EU prohlášení o shodě
SK EU Vyhlásenie o zhode
PL Deklaracja zgodności EU
TR EU Uygunluk Beyanı
ES EU Declaración de Conformidad

Rheinland Elektro Maschinen Group d.o.o.
PC Komenda, Pod lipami 10
SI – 1218 Komenda – EU

D erklärt folgende Konformität gemäß EU-Direktiven und Normen für Artikel **EN** declares the following conformity according to EU directives and norms for the product **FR** déclare la conformité suivante selon la directive EU et les normes concernant l'article **IT** dichiara la seguente conformità secondo la direttiva EU e le norme per l'articolo **NL** verklaart de volgende overeenstemming conform EU richtlijn en normen voor het product **SE** förklarar följande överensstämmelse enl. EU-direktiv och standarder för artikeln **SI** potrjuje skladnost z EU direktivami in standardi za izdelek **HR** potvrđuje sljedeću usklađenost prema EU direktivama i normama za artikl **SRB** potvrđuje sledeću usklađenost prema direktivama EU i normama za artikal **MK** ja izjavува следната сообразност согласно ЕУ-директивата и нормите за артикли **RO** declară următoarea conformitate conform directivei EU și normelor pentru articolul **BG** декларира съответното съответствие съгласно Директива на ЕУ и норми за артикул **HU** a cikkekhez az EU-irányvonal és Normák szerint a következő konformitást jelenti ki **CZ** vydává následující prohlášení o shodě podle směrnice EU a norem pro výrobek **SK** vydáva nasledujúce prehlásenie o zhode podľa smernice EÚ a noriem pre výrobok **PL** deklaruje zgodność wymienionego poniżej artykułu z następującymi normami na podstawie dyrektywy EU **TR** Ürünü ile ilgili EU direktifleri ve normları gereğince aşağıda açıklanan uygunluğu belirtir **ES** declara la siguiente conformidad a tenor de la directiva y normas de la EU para el artículo

Inverter-Schweißgerät- Welding Inverter - Soudage Inverter - Inverter per saldatura - Lassen Inverter - Svetsning Inverter - Varilni inverter
Inverter za zavarivanje - Инвертор за заваривање - Инвертер за заварување - Invertor de sudura - инвертор за заваряване
Hegesztés Inverter - Svařovací invertor - Zvárací invertor - Prostownik spawalniczy - Kaynak Inverter

Typ - Type - Type - Modelo - Type - Typ - Tip - Tip - Tip - Тип - Type - Тип - Típus - Typ - Typ - Typ - Tip - Tipo:

WME m TIG 200i Lynx

(2014/35/EU) (2014/30/EU)

(EN 60974-10) (EN 60974-1)

CE-Kennzeichnung wurde angebracht - CE marking was affixed - Le marquage CE a été apposé - Marcatura CE è stata apposta - de CE-markering is aangebracht - CE-märkning anbringats - CE oznaka je pritrjena - CE oznaka je stavljena - CE oznaka je postavljena - CE oznaka e ставена - Marcajul CE a fost aplicat - CE маркировка е поставена - CE-jelölést elhelyezték - CE-označení bylo připevněno - CE-označenie bolo pripevnené - Przyznano oznakowanie CE - Marcado CE se colocará:

16

Bevollmächtigter, die technische Dokumentation zu erstellen - Authorized to compile the technical documentation - Représentant autorisé et en charge des éditions de documentation techniques - Rappresentante autorizzato e competente per la compilazione della documentazione tecnica - Gemachtigde van de fabrikant en in staat om de technische documentatie samen te stellen - Auktoriserad representant och ska kunna sammanställa teknisk dokumentationen - Pooblašćeni predstavnik, ki lahko predloži tehnično dokumentacijo - Ovlašćeni predstavnik i osoba za sastavljanje tehničke dokumentacije - Ovlašćeni predstavnik i sposoban da sastavi tehničku dokumentaciju - Овластен претставник и во можност да ги собере на техничка документација - Reprezentant autorizat și abilitat să realizeze documentație tehnică - Упълномощен представител и отговорник за съставяне техническата документация - Meghatalmazott képviselője és képes összeállítani a műszaki dokumentációt - Zplnomocný zástupce a osoba pověřená kompletací technické dokumentace - Autorizovaný zástupca schopný zostaviť technickú dokumentáciu - Upoważniony przedstawiciel oraz osoba upoważniona do przygotowania dokumentacji technicznej - Teknik dosyayı hazırlamakla yetkili olan Toplulukta yerleşik yetkili temsilci - Volitatud esindaja, kes on pädev täitma tehnilist dokumentatsiooni

Darko Adžijev Rheinland Elektro Maschinen SEE Londonska 9a, 1000 Skopje Macedonia

Hersteller – manufacturer – fabricant – fabbricante – producent – tillverkare – proizvajalec – proizvođač – proizvođač – производителот – producător – производитель – gyártó – výrobce – výrobca – producent – Üreticiler – fabricante:

Geschäftsführer - Deputy director - Conseiller délégué - Consigliere delegato - Gemachtigd lid van de Raad van Bestuur - Juridiskt ombud - Zastopnik - Zastupnik - Zastupnik - Застапник - Consilier delegat - Упълномощен съветник - A vállalat tanácsosa - Pověřený poradce - Poverený Poradca - Pełnomocnik -

Rheinland Elektro Maschinen Group d.o.o.
PC Komenda, Pod lipami 10
SI – 1218 Komenda - EU
exp@rem-maschinen.com

Boštjan Prebil

Komenda, 25.05.2016

Subjekt to change without notice