

## KIT 130 - KIT 150 - KITin 170 TIG LA

**NEW**



**V.R.D.**



#### New

KITin 130 - 170 TIG LA inverters are professional welding machines of the third generation constructed with utilisation of IGBT technology with fast microprocessor regulation - FAST CONTROL. Machines are noted with high loading (125A at 100%) and performance, low consumption of electricity, excellent welding qualities, they are light, of small dimensions and best of all, they are reliable. Control electronics is produced with the use of SMD technology. They are designed for working places, where maximum utility value and high performance for favourable price are highlighted. Machines are equipped with microprocessor operating and display, which shows setting-values.

#### Equipment

- Summary display showing setting-values
- Simple and well-arranged graphics with big buttons

#### MMA

- Function HOT START
- Function ARC FORCE
- Function ANTI STICK - with short-circuit of welding electrode current decreases automatically up to 10 A
- V.R.D. safety system MMA

#### TIG LA

- Function TIG LA - in idle-circuit condition there is safe 12V on exit connectors - inverter is off. After touch with wolfram electrode inverter is switched on automatically
- TIG PULS welding - for welding thin materials
- TIG DOWN SLOPE - filling a crater
- TIG end current

#### Usage

KIT 130 - 170 TIG LA are the excellent choice for usage in production, assembly, metal production, maintenance or in a utility room.

### OUTDOOR KIT - accessory equipment to be used in terrain



OUTDOOR KIT	CODE	DESCRIPTION	
Pressure control valve	2590	Argon pressure control valve	
Gas bottle	7108	2 liters, pressure up to 200 bar (up to 100 min)	
Self-fading welder's mask	UTX.V110/B5	Regulation of darkness 9-13, Swiss quality	
Welding torch	40SP09V3C4	5R 9 V 4m	
	40SP17C3C4	5R 17 V 4m	
Welding cables	10102	3/16 10-25	
	10103	5/16 10-25	
Suitcase	KUFR130.150	Suitcase for invertors and accessory equipment	
Compensating pipe Argon	71003	Without a manometer	Designed for compensating Ar from a big bottle
	71002	with a manometer	

PRESSURE CONTROL VALVE

WELDING CABLES

GAS BOTTLE 2 l

SELF-FADING WELDER'S MASK

COMPENSATING PIPE ARGON

### Welding with the use of method MMA

Excellent ignition of welding arc is enabled by the function HOT START which can be easily adjusted in two levels. HOT START - "starting current" can be adjusted within the range of 0 (switched off) up to a value by 70% higher than adjusted welding current. Further on, it is possible to set up a time period of HOT START depending on welding conditions. Error free arc ignition is supported by voltage no load 85V. Machines KITin TIG LA are - in a standard way - provided with safety function V.R.D. (Voltage Reduce Device). This function can be switched on and then switched off in an easy way, which is marked with symbols on the display. V.R.D. offers increased security at work and while manipulating with the machine turned on. V.R.D automatically decreases voltage no load on safety value 15V for the time period when operating staff are not welding. As soon as a welder touches the welding material with an electrode, voltage is immediately increased up to value 85V no load (for a period of 5 sec.) and the function HOT START is switched off, which secures an error free start.

### Welding with the use of method TIG

Machines are equipped with precise touch arc ignition TIG LA. LA secures safety start in TIG and very low wear-out of the wolfram electrode during start. Electronics enables adjustment of the function DOWN SLOPE - filling a crater at the end of the welding process and pulse adjustment within the range of up to 500 Hz for welding very thin rustless and other materials. For precise finishing the welding process it is possible to adjust the end current.

Activation of finishing the welding process is carried out when you just remove and then re-approach the wolfram electrode. Welding arc decreases its intensity for adjusted time period (0-5 sec.) until complete switching off is carried out - "filling a crater".

Machines KITin TIG LA equipped in such a way with simple operating and parameter adjustment can be used all-round nearly in all applications of welding MMA and TIG/WIG.

### Microprocessor control enables



#### In MMA method:

- Adjustment of the function HOT START - % current increase, or switching the function off
- Time adjustment of run out of the function HOT START
- Switching the security function V.R.D. on and off
- Adjustment of welding current

#### In TIG method:

- Switching the function PULS on and its adjustment within the range of frequency 0,5 - 500 Hz
- Switching the function as of run out of welding current - DOWN SLOPE and its adjustment within the range of 0,1 - 5 sec.
- Adjustment of welding current
- Adjustment of end welding current from 10 A

### Start and finishing of welding process TIG



- 1 Approaching the wolfram electrode to the welding material
- 2 Touching the wolfram electrode and the welding material
- 3 Removing the wolfram electrode and ignition of welding arc with the use of LA - very low wear-out of the wolfram electrode by touch
- 4 Welding process
- 5 Finishing of the welding process and activating DOWN SLOPE (filling a crater) is carried out when you remove the wolfram electrode for about 8-10 mm from the welding material
- 6 Re-approaching - welding current is decreased for adjusted period of time (0 up to 5 sec.) on adjusted value of end current (vol. 10A) - filling a crater
- 7 Finishing of the welding process. The digital control switches the welding process automatically off

TECHNICAL DATA	KIT 130 TIG LA	KIT 150 TIG LA	KIT 170 TIG LA
Power supply 50/60 Hz V	1x230	1x230	1x230
Protection A	16	20	20
Welding current range A	10-130	10-150	10-170
Duty cycle 100% A	125	125	125
Duty cycle 60% A	-	145	150
Duty cycle at max. I	45%	45%	35%
Open Circuit Voltage V	85	85	85
Protection degree	IP 23 S	IP 23 S	IP 23 S
Dimensions mm	330x143x225	330x143x225	330x143x225
Weight Kg	5,5	5,5	5,9