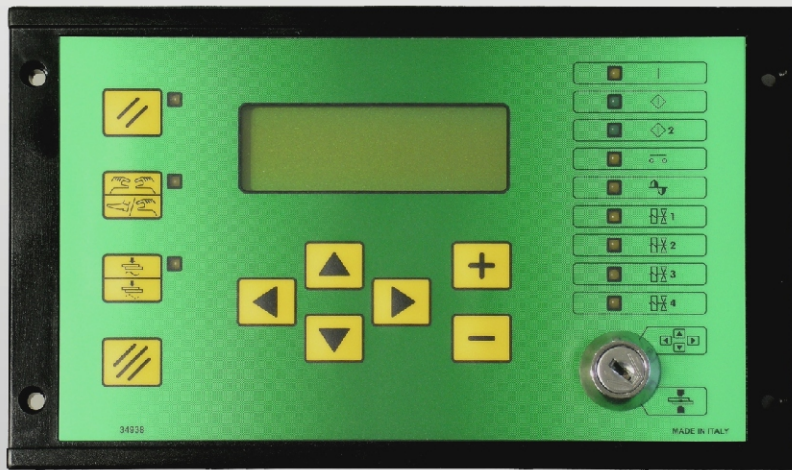


## INVERTER MEDIUM FREQUENCY SYSTEM WITH TE700

The **TE700** is a particularly versatile welding control unit as it may be adjusted to different types of welders; it may be installed not only on spot and projection welders but on seam welders too. Moreover, it may work with constant current, fix, constant power, constant voltage and constant energy adjustment and in dynamic mode.

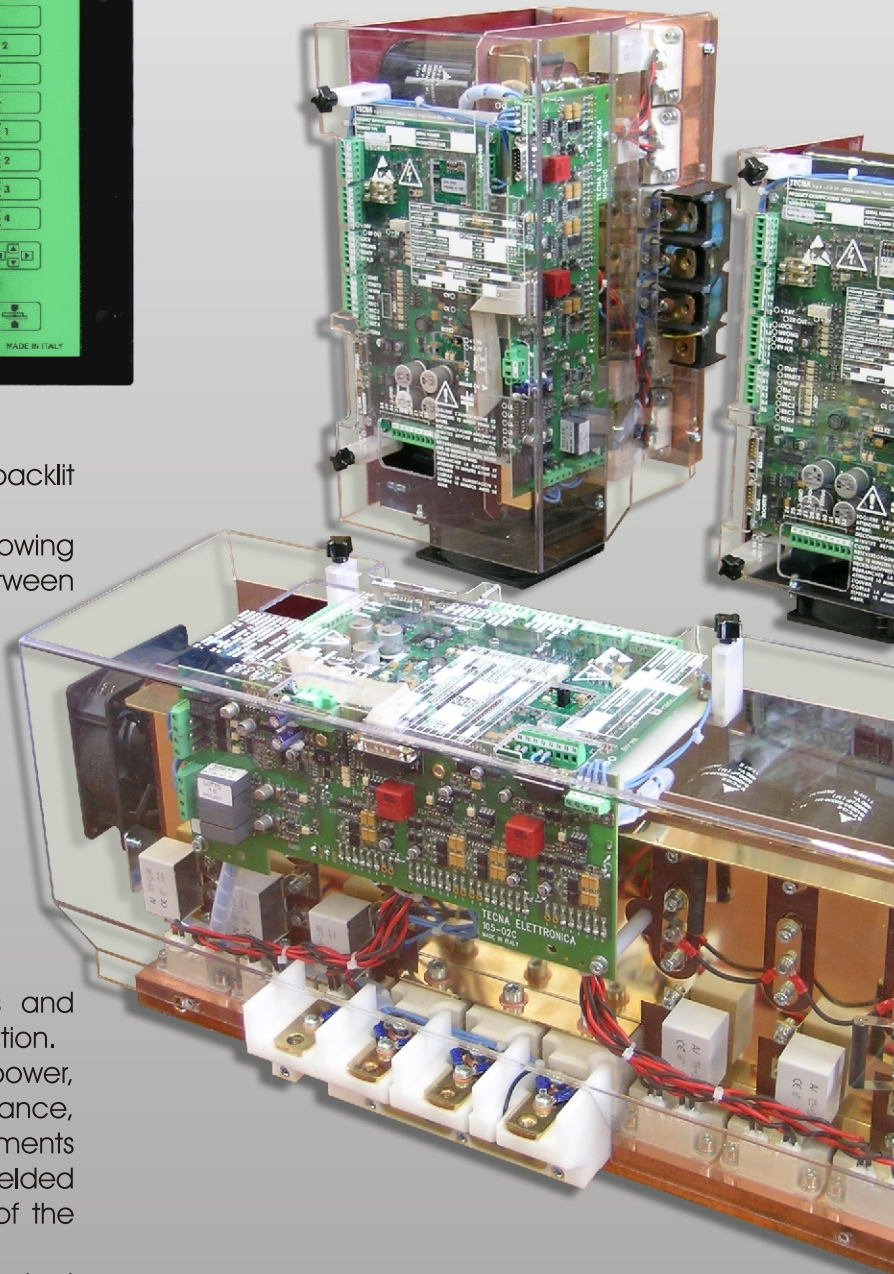
The number of inlets and outlets may be increased so to better adjust the welding control unit to automatic machines. The control unit may manage up to a maximum of 4 different welding transformers.

It is possible to store up to 300 different welding programs. Each program may be given an alphanumeric identification so to easily track it down. Each program comprises several programmable parameters that describe the work cycle. In addition to the plain 4-stage welding cycle, the control unit allows the running of welding processes with pre-welding current, post-welding current, slope and pulses.



### MAIN TECHNICAL FEATURES

- Simplified programming via 6 keys and a backlit alphanumeric LCD.
- Inverter command with IGBT at medium, allowing choosing the inverter working frequency between 1000 Hz and 4000 Hz.
- Storage of 300 welding programs.
- Each welding program may be given an 8-character alphanumeric identification.
- Possibility of managing up to a maximum of 4 different welding transformers or up to a maximum of 4 different electrodes typologies through the same control unit.
- Thermal protection for the welding transformer.
- Up to 32 programmable parameters for each program.
- Slope, pulses, pre-weld, post-weld functions and adjustment of the welding times with 1 mS resolution.
- Display of the RMS welding current, energy, power, RMS electrodes voltage, original and final resistance, machine thermal use percentage measurements and, optionally, of the original thickness of the welded material and of the indentation at the end of the welding process.
- 6 operating modes: FIX, constant current, constant power, constant voltage, constant energy, DYNAMIC mode.



- Limits relevant to: the welding current, electrodes voltage, energy, power, inverter use percentage, original and final resistance of the material to be welded; limit on the thickness and on the material indentation (optional).
- Double stroke function
- Stepper function to compensate the electrodes wear with programmable curves. Possibility of independently intervening on welding time and current through differentiated stepper laws. Possibility of using 4 different stepper laws associated to 4 different spot counters which may be freely associated to each welding program.
- Single and automatic cycle. WELD and NO-WELD function.
- Control of 5 solenoid valves 24 VDC max. 5 W with self-protected output.
- Self-adjustment at mains frequency 50/60 Hz.
- Serial data transmission by means of optional insulated RS232 port.
- Output for proportional solenoid valve.
- Key for selecting foot control or two-hand control.
- Selectable languages: Italian, English, French, German, Spanish, Hungarian, Swedish or Portuguese.
- Possibility of upgrading the control unit Firmware via appropriate software.
- Activation and control of the electrodes dressing. Possibility of managing up to a maximum of 4 different simultaneous electrodes dressings through 4 different spot counters (optional).

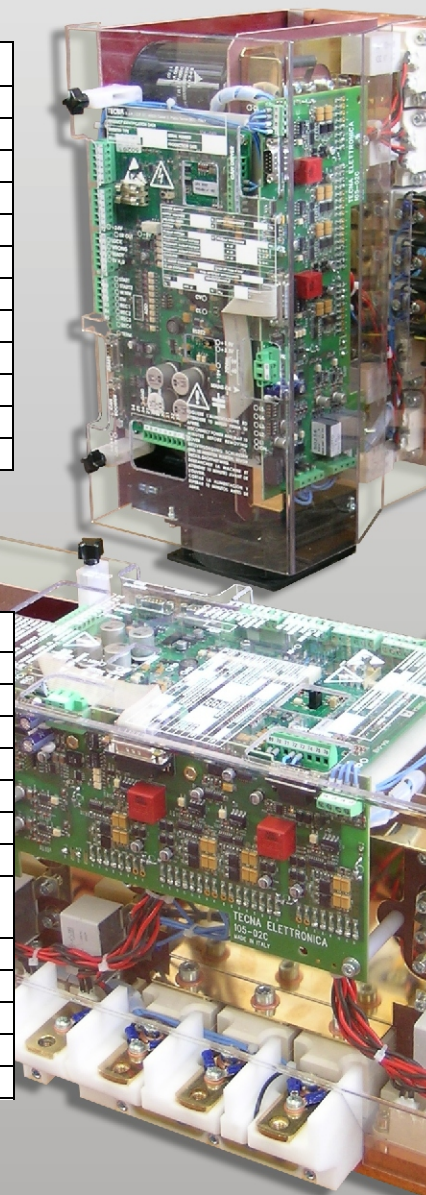
## INVERTER TECHNICAL FEATURES

### AIR COOLING:

	1502RA	1503RA
MAINS SUPPLY	400 – 440 V THREEPHASE +10% -20%	
INPUT FREQUENCY	50 / 60 Hz	
WORKING FREQUENCY	1000 – 2000 – 3000 - 4000 Hz	
OUTPUT CURRENT	250 A	450 A
OUTPUT VOLTAGE	520V	
DUTY CYCLE MAX	20%	20%
ADJUSTMENT TYPE	CONSTANT CURRENT	
COOLING TYPE	ARIA	
ROOM TEMPERATURE	5°C – 40°C	
RELATIVE HUMIDITY	90% MAX	
DIMENSIONS	345x285x235	
WEIGHT	12,5 kg	13 kg

### WATER COOLING:

	1503RW	1504RW	1506RW	1508RW
MAINS SUPPLY	400 - 440 V THREEPHASE +10% -20%			
INPUT FREQUENCY	50 / 60 Hz			
WORKING FREQUENCY	1000 – 2000 – 3000 - 4000 Hz			
OUTPUT CURRENT	450 A	900 A	1200 A	1800 A
OUTPUT VOLTAGE	520V			
DUTY CYCLE MAX	20%	20%	20%	20%
ADJUSTMENT TYPE	CONSTANT CURRENT			
COOLING TYPE/ LITERS/MINUTE	WATER >15°C 4-6 LITERS/MIN.			
WATER PRESSURE	6 bar MAX.			
ROOM TEMPERATURE	5°C – 40°C			
RELATIVE HUMIDITY	90% MAX			
DIMENSIONS	345x215x235	440x330x300	640x260x300	800x270x320
WEIGHT	13,5 kg	27 kg	35 kg	50 kg



Specifications subject to change without notice.