



**S.I.CO.R.T**

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"When does the school year start?"

"What kind of question is this?!?! The school year starts on 1st October"

"Well, it used to be like that once"

"No, no, believe me: the school year always starts on 1st October!!!"

October 1st. I have vivid memories of my waiting for that day, that day which would become a milestone in my life. That day I keep considering a milestone in my life.

It is my first school day. I'm sitting at my desk. Loud voices, distant laughs, foot-steps in the corridor. The day has begun, the first day of school has begun.

Silence.

Everybody stands up. The choral "good morning", and then we are ready to start.

"I'm opening my new exercise book".

Everyday I feel exactly this way, like on my first school day, and I felt exactly the same also on the day when", despite all my uncertainty, I accepted the challenge of "opening SICORT's exercise book, a long diary full of success, along with some failures that have been stubbornly solved and turned into opportunities for growth. Today, after twenty years, I am not yet satisfied. Every morning, when I

wake up to face a new day, I ask myself: "What will I write today on my SICORT-diary?" and exactly as it happened on the first school day, I leave home, being confident that I will do something good for myself and my customers.

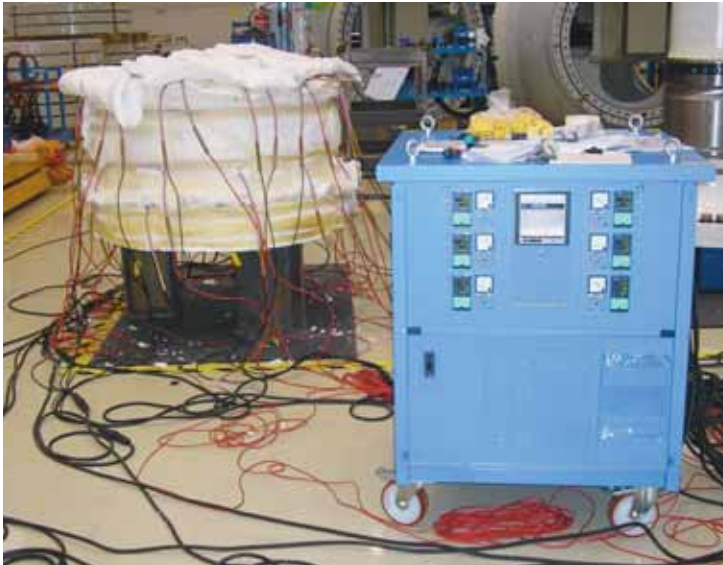
*Maurizio Mora*



**S.I.CO.R.T**



The simplest thing to do would be to fill our presentation with technology, but we would rather like to talk about us, tell that our real evolution goes through the needs of our customers, our own needs and those of the products we are examining. As a matter of fact, there is no technology without a human, cultural and organizational evolution like the one our Company has achieved. In fact it is not our habit to rely on "technical facilities" but on the way they are used. For this reason we base our choices on process analysis and organization, in the aim of conceiving an operative system being in line with each desired feature. By presenting our machines for heat treatment, we assure and certify that each working step is constantly kept under control by our system. The result of over forty years experience translates into the new machineries for heat treatment and pipe welding process control.



BTs and LTs ranges are the right answer for those who require great operational versatility without huge management costs. Before delivery all the machineries undergo rigorous testing, so that every request of the customer is thoroughly fulfilled. The machines mount has been designed to resist uneven ground and extreme conditions characterising use on construction sites. Moreover, an anticorrosive treatment ensures high protection against weathering.

.....  
**Low tension machines**  
**mod. SICORTHERM**



P/n	Model	Rating	Channel output	Output (V)
001-001-001	Sicortherm 50 BT/6	50	6	80
001-001-002	Sicortherm 80 BT/6	80	6	80
001-001-003	Sicortherm 100 BT/6	100	6	80

Electrical heater units (low voltage). The appliance carries out the preheating and the subsequent heat treatment of welded joints (pipelines, tanks, fittings, adapters, elbows, etc.) of any kind and size. The use of such appliances stems from the following remarks: The strains that may be originated in a structure during welding can cause its breaking if not controlled. The preheating avoids the formation of critical crystalline structures by reducing the structure porosity. The subsequent heat treatment eliminates all inner tensions deriving from the different cooling speed of contiguous structures. Such appliances consist in a strong powder coated iron construction. They are accurately finished, compact and hence easily transportable, reliable and they feature a long life even in heavy duty conditions. They are particularly suitable for use in workshops and industrial building or ship yards yards. Their functioning is fully automatic.

*For technical features apply to S.I.CO.R.T.*





Low tension machines  
mod. SICORTHERM

P/n	Model	Rating	Channel output	Output (V)
001-001-004	Sicortherm 100 BT/12	100	12	80
001-001-005	Sicortherm 200 BT/12	200	12	80

Electrical heater units (low voltage). The appliance carries out the preheating and the subsequent heat treatment of welded joints (pipelines, tanks, fittings, adapters, elbows, etc.) of any kind and size. The use of such appliances stems from the following remarks: The strains that may be originated in a structure during welding can cause its breaking if not controlled. The preheating avoids the formation of critical crystalline structures by reducing the structure porosity. The subsequent heat treatment eliminates all inner tensions deriving from the different cooling speed of contiguous structures. Such appliances consist in a strong powder coated iron construction. They are accurately finished, compact and hence easily transportable, reliable and they feature a long life even in heavy duty conditions. They are particularly suitable for use in workshops and industrial building or ship yards yards. Their functioning is fully automatic.

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## Low tension machines

### mod. ETTS

P/n	Model	Rating	Channel output	Output (V)
001-001-006	ETTS/50	50	6	60/80
001-001-007	ETTS/70	70	6	60/80



Electrical heater units (low voltage). The appliance carries out the preheating and the subsequent heat treatment of welded joints (pipelines, tanks, fittings, adapters, elbows, etc.) of any kind and size.

The use of such appliances stems from the following remarks: The strains that may be originated in a structure during welding can cause its breaking if not controlled. The preheating avoids the formation of critical crystalline structures by reducing the structure porosity.

The subsequent heat treatment eliminates all inner tensions deriving from the different cooling speed of contiguous structures. Such equipment is made in AISI 304 stainless steel solid structures. They are accurately finished, compact and hence easily transportable, reliable and they feature a long life even in heavy duty conditions.

They are particularly suitable for use in workshops and industrial building or ship yards yards. Their functioning is fully automatic.

*For technical features apply to S.I.CO.R.T.*

## Temperature recorder mod. ET combined with ETTS equipment

P/n	Model	Channel output	Characteristics
001-003-003	ET 6-Rec	6	Temperature recorder



P/n	Model	Channel output	Characteristics
001-003-004	ET 12-Rec	12	Temperature recorder
001-003-005	ET 24-Rec	24	Temperature recorder





High tension machines mod. TL

P/n	Model	Rating	Channel output	Output (V)
001-002-001	120 TL	120	6	0-380
001-002-002	240 TL	240	12	0-380

Electrical heater units (main voltage). These main voltage units have been designed for stress relieving heat treatmets. Compact, lightweight, easy to handle and use. Suitable for working with larger sizes, where other machines and heaters at low voltage prove uneconomic. Each unit output is protected by an-earth leakage and over current trip.

Maximum power: 120 KVA  
N. 06 independent outputs 19 KVA/each, Variable output voltage: 0 to 380Vac, Maximum output current: 50A, Standard supply: 380Vac-50/60Hz (three-phase), N.01 Microprocessor programmer mod. G18000P, N.06 Microprocessor temperature regulators mod.G1600, N.01 hybrid temperature recorder CHINO mod.BL160ENDN, 6 scale-points 0-1200°C-Data print-Analogue/display reading- Paper speed selectable from 0 to 1500 mm/h.. Paper 100mm., N.06 regulations of output voltage 0-100%, Tools extractable from front panel, Operating modes: manual/semiautomatic/automatic, Auto switch off at the end of cycle, N.06 power units with thyristors type TH-1AX(400-60H), N.01 60A ammeter for each output, Input voltmeter with RST switch. Portable version with handles, N.01 Magnetothermal main switch N.06 Magnetothermal differential 63A switches with fix release at 300mA, Emergency button, Door stop N.06 Output plugs type Marechal 2P+T(IP64) with decontactor, Dimensions: 750 L x 600 H x 480 D (mm), Weight: 95 kg, CEI execution and safety rules, User's manual in English, CE marking

Static generator  
mod. SHG 40/80



P/n	Model	Output				Input			Channel output
		kVA	V	A	KHz	V	A	Hz	
001-005-001	SHG 40	225	600	380	6-14	380-400	70	50/60	1
001-005-002	SHG 80	280	700	400	3-10	380-400	135	50/60	1

S.I.CO.R.T. inverters or Static Generator, available in 40 kW and 80 kW power size, are designed for pre-heating welding and coating when an electric source is available.

The digital control of the heating cycle and the control panel display allow easy access to the main parameters involved during the heating cycle such as current, voltage and output power. The output power can be regulated, and the duration of the heating cycle can be programmed.

Options: Heat treatment software, 6 channels thermocouple recorder

For technical features apply to S.I.CO.R.T.

The THERM range is made up of portable units, reliable and easily transportable machines, that in a smaller size offer the same technology and reliability of their "bigger sisters", taking power supply from a welding machine.



## Temperature control regulator mod. ET

P/n	Model	Channel output	Caracteristics
001-003-001	ET 20-SR	1	Termoregulator
001-003-002	ET 20-PR	1	Programmer

Power external connection to DC Welding machine regulation by SCR diode. Power external connection to Welding machine in DC, N.01 control output for resistance, Power supply: 50 to 80 Vdc, Maximum output current: 180A, N.01 microprocessor thermoregulator display reading 2x3 digit with green led 14 mm thermocouple signal input K-scale 0-999°C accuracy 0,5% f.s., Maximum power at load: 10,8 Kw, Service factor (200A): 80%, Operating mode: automatic, N.02 balanced polarized plug thermocouple input, Dimensions: 220x230x380mm, Weight: 9kg, User's manual in English, CE marking



P/n	Model	Channel output	Caracteristics
001-003-003	ET 6-Rec	6	Temperature recorder



P/n	Model	Channel output	Caracteristics
001-003-004	ET 12-Rec	12	Temperature recorder
001-003-005	ET 24-Rec	24	Temperature recorder



## Temperature control regulator mod. EASYTHERM

P/n	Model	Channel output	Caracteristics
001-004-001	EASYTHERM 220 S	2	Termoregulator
001-004-002	EASYTHERM 220 P	2	Programmer

Power external connection to Welding machine. N.02 independent outputs, Maximum voltage per output: 80V, Maximum current per output: 200A, N.02 Microprocessor thermoregulator mod. G100 display reading 2x3 digit with green led 14 mm thermocouple signal input K-scale 0-999°C accuracy 0,5% f.s., Operating mode: automatic (0-100%), N.02 K thermocouple input polarized balanced plugs, N.02 polarized balanced plugs for connection to the recorder, N.01 24V auxiliary plug, Service power supply: 220V-50Hz (others on demand), Dimensions: 455 L x 360 H x 450 D (mm), Weight: 18 kg, CEI execution and safety rules, CE marking

A complete range of equipment as support to the treatment units, fully realized with the best materials nowadays available in the market and designed to achieve the best results in your business.

Immediate availability and constant supply of our warehouse, together with special agreements with express couriers, guarantee short delivery times.



## Connection between power source and splitter caple

P/n	Model	Size	Length
050-001-001	50-80 BT/6	2 x 25mmq.	30mt.
050-001-002	50-80 BT/6	2 x 25mmq.	15mt.
050-002-001	100 BT/6	2 x 35mmq.	30mt.
050-002-002	100 BT/6	2 x 35mmq.	15mt.
050-001-001	100 BT/12	2 x 25mmq.	30mt.
050-001-002	100 BT/12	2 x 25mmq.	15mt.
050-002-001	200 BT/12	2 x 35mmq.	30mt.
050-002-002	200 BT/12	2 x 35mmq.	15mt.

note: outner sizes on request



## Heater connecting splitters

P/n	Way	Length
050-003-001	2	3mt.

note: outner sizes on request



## Heater connecting splitters

P/n	Way	Length
050-003-002	3	3mt.

note: outner sizes on request



## Heater connecting splitters

P/n	Way	Length
050-003-003	4	3mt.

note: outner sizes on request



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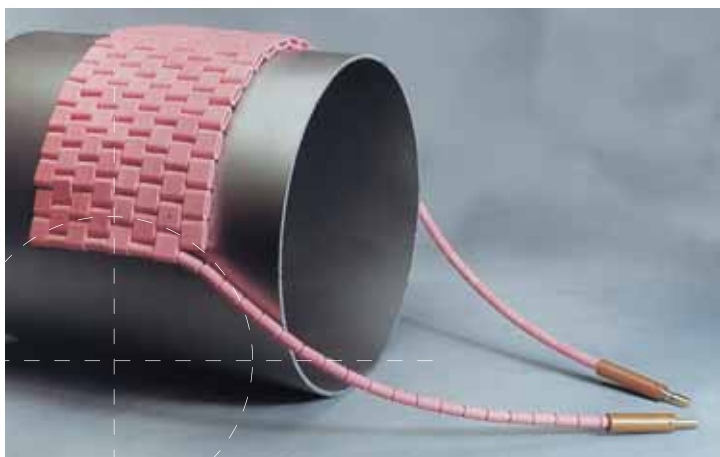
### Compensating cable for thermocouple

P/n	Length	Colour (IEC584)
050-005-001	5mt.	Green
050-005-002	10mt.	Green
050-005-003	15mt.	Green
050-005-004	20mt.	Green
050-005-005	30mt.	Green

*note: outner sizes on request*



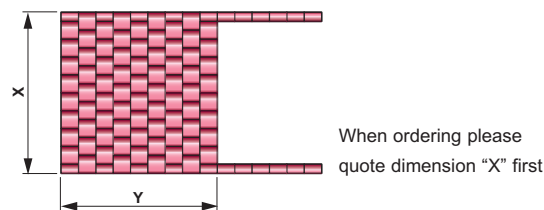




Ceramic mat heaters

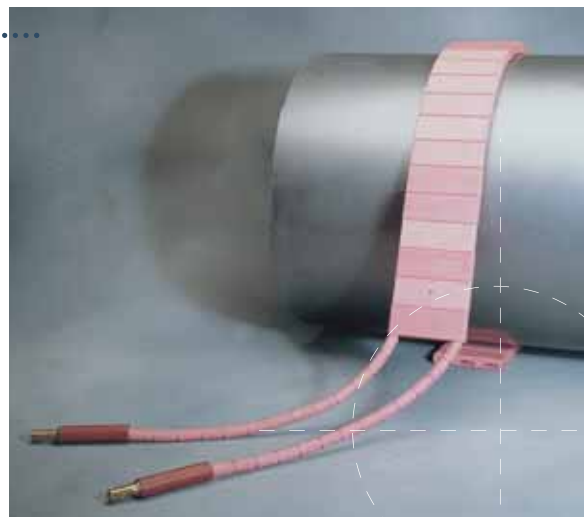
P/n	V	X	Y	Kw
010-001-001	30	82	254	1,4
010-001-002	30	610	45	1,4
010-002-001	60	75	660	2,7
010-002-002	60	100	505	2,7
010-002-003	60	150	335	2,7
010-002-004	60	205	250	2,7
010-002-005	60	250	210	2,7
010-002-006	60	305	165	2,7
010-002-007	60	380	145	2,7
010-002-008	60	405	125	2,7
010-002-009	60	525	105	2,7
010-002-010	60	600	82	2,7
010-002-011	60	1210	40	2,7
010-003-001	80	75	925	3,6
010-003-002	80	150	460	3,6
010-003-003	80	205	360	3,6
010-003-004	80	255	295	3,6
010-003-005	80	305	230	3,6
010-003-006	80	380	190	3,6
010-003-007	80	430	165	3,6
010-003-008	80	525	145	3,6
010-003-009	80	835	85	3,6
010-003-010	80	1670	40	3,6
010-004-001	220	330	185	9,9
010-004-002	220	460	230	9,9
010-004-003	220	510	290	9,9
010-004-004	220	615	310	9,9
010-004-005	220	655	330	9,9
010-004-006	220	710	395	9,9
010-004-007	220	845	440	9,9
010-004-008	220	112	610	9,9
010-004-009	220	4670	40	9,9

note: outher voltage (V) on request



## Tank track heaters

P/n	V	X	Y	Kw	Amps
010-005-001	60	75	670	2,7	45
010-006-001	80	75	940	3,6	45



## Tank track heaters (insulated preheaters)

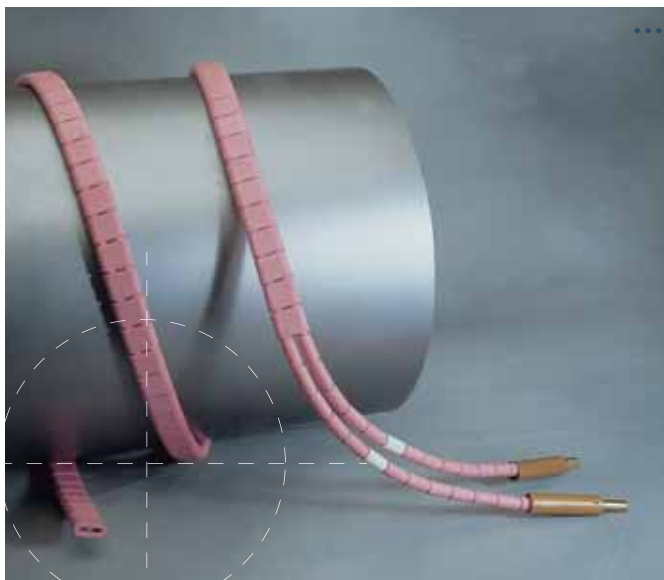
P/n	V	X	Y	Kw	Amps
010-007-001	60	105	768	2,7	45
010-008-001	80	105	1018	3,6	45



## Ceramic mat heaters (insulated preheaters)

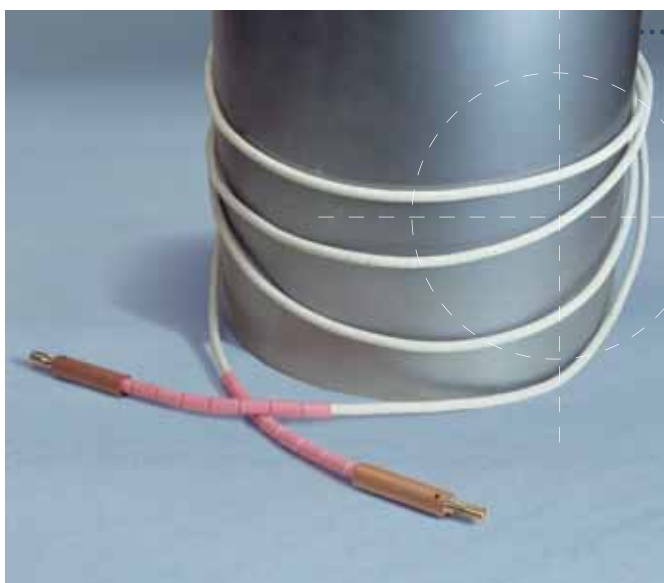
P/n	V	X	Y	Kw	Amps
010-009-001	60	105	765	2,7	45
010-009-002	60	715	110	2,7	45
010-009-003	60	130	600	2,7	45
010-010-001	80	105	1020	3,6	45
010-010-002	80	950	110	3,6	45
010-010-003	80	130	765	3,6	45





## Ceramic tape heaters

P/n	V	X	Y	Kw	Amps
010-011-001	30	1100	25	1,35	45
010-012-001	40	1500	25	1,8	45
010-013-001	60	2200	25	2,7	45
010-014-001	80	3000	25	3,6	45
010-015-001	110	4125	25	4,95	45
010-016-001	220	8250	25	9,9	45



## Single row heaters

P/n	V	A	L (mm)	Kw	Amps
010-017-001	60	45	4900	2,7	45
010-018-001	80	45	6500	3,6	45
010-019-001	90	45	7200	4	45
010-020-001	110	45	9000	5	45
010-021-001	220	45	17070	9,9	45

note: outher voltage (V) on request

## Rope heaters

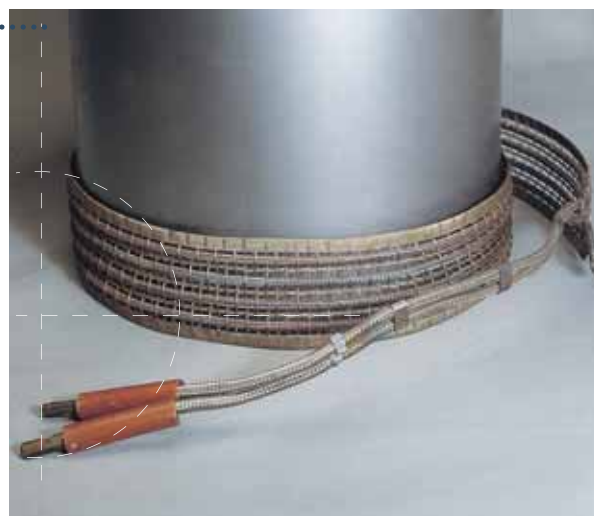
P/n	V	L	Kw	Amps
010-022-001	60	2700	2,7	45
010-023-001	80	3600	3,6	45



## Braided heaters

P/n	V	X	Y	Kw	Amps
010-024-001	60	178	305	2,7	45
010-025-001	80	229	432	3,6	45
010-025-002	80	153	610	3,6	45
010-025-003	80	102	737	3,6	45

note: outer voltage (V) on request





Clamp-on Heaters

P/n	Inches	diam. (mm)	Voltage (V)
010-026-001	1"	33,40	60
010-026-002	2"	60,30	60
010-026-003	3"	88,90	60
010-026-004	4"	114,30	60
010-026-005	5"	141,30	60
010-026-006	6"	168,30	60
010-026-007	8"	219,10	60
010-026-008	10"	273,10	60
010-026-009	12"	323,90	60
010-026-010	14"	355,60	60
010-026-011	16"	406,40	60
010-026-012	18"	457,20	60
010-026-013	20"	508,00	60
010-026-014	24"	610,00	60
010-027-001	1"	33,40	80
010-027-002	2"	60,30	80
010-027-003	3"	88,90	80
010-027-004	4"	114,30	80
010-027-005	5"	141,30	80
010-027-006	6"	168,30	80
010-027-007	8"	219,10	80
010-027-008	10"	273,10	80
010-027-009	12"	323,90	80
010-027-010	14"	355,60	80
010-027-011	16"	406,40	80

note: outher voltage (V) on request



## Thermocouple welding unit

P/n	Type	Rating	Characteristics
005-001-001	TW 55-J	15-30-40-55 J	For wire dia 0,5-0,7-1-1,5mm.

power supply: 95/230 Vac or car socket lighter adaptor 12 Vac



P/n	Type	Rating	Characteristics
005-001-002	TW 113	12-50 J	For wire dia 0,5-0,7-1,0mm.
005-001-003	TW 126	50-120 J	For wire dia 0,5-2,0mm inox nail dia 2,0 mm

power supply: 110/220 Vac and internal rechargeable battery



P/n	Type	Rating	Characteristics
005-002-001	TW 158	20-50 J	For wire dia 0,5-0,8mm.

power supply: 4 AA Alkaline batteries



P/n	Type	Rating	Characteristics
005-003-001	B33	450 J	Inox nail dia 2,5 a 5,0 mm.

power supply: 110-230 V / 50 Hz or car socket lighter adaptor 12 Vac and internal rechargeable battery



## Spare part for thermocouple welding unit

P/n	Characteristics
005-003-001	YUASA NP2,1-12 (12V-2,1 Ah)

rechargeable battery for welding machine mod.: TW55-J - TW113 - TW126





## Twisted thermocouple wire

P/n	Type	AWG	Insulation	Performance capabilities
020-001-001	K	20 (0,965mm.)	Fiber glass braided	705/870°C
020-001-002	K	24 (0,508mm.)	Fiber glass braided	705/870°C
020-002-001	K	20 (0,965mm.)	Ceramic fiber braided	1205/1430°C

note: 100 mt roll

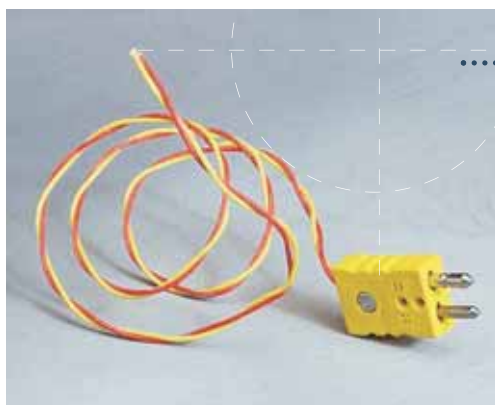


## Stainless steel T/C.

MGO thermocouple sheathed, inconel 600, ungrounded junction.

P/n	Type	Length (mm)	Dia (mm)	Specifications
021-001-001	K	250	4,5	IEC 584
021-001-002	K	500	4,5	IEC 584
021-001-003	K	750	4,5	IEC 584
021-001-004	K	1000	4,5	IEC 584

note: STD length, outhter measures on request



## T/C. wire

Thermocouple twin wire (20 AWG) with plug STD.

P/n	Type	Length (mm)	Dia
022-002-001	K	250	20 AWG
022-002-002	K	500	20 AWG
022-002-003	K	750	20 AWG
022-002-004	K	1000	20 AWG

note: STD length, outhter measures on request



## Welding plate for thermocouple

P/n	Dimensions (mm)	Dia pipe (mm)
027-001-001	25x25	4,6



Compensating cable

P/n	Type	Size	Insulation	Colour (IEC584)
025-001-001	K	2 x 0,50	PVC/PVC	Green
025-001-002	K	2 x 0,80	PVC/PVC	Green
025-001-003	K	2 x 1,00	PVC/PVC	Green
025-001-004	K	2 x 1,30	PVC/PVC	Green
025-001-005	K	2 x 1,50	PVC/PVC	Green

note: other colours on request





**In-line T/C. plug**

P/n	Type	Description	Colour (IEC 584)	ANSI 96.1
028-001-001	K	Male	Green	Yellow



**In-line T/C. socket**

P/n	Type	Description	Colour (IEC 584)	ANSI 96.1
028-002-001	K	Female	Green	Yellow



**Panel thermocouple connectors**

P/n	Type	Description	Colour (IEC 584)	ANSI 96.1
028-003-001	K	Panel therm socket	Green	Yellow



**Thermocouple putty**

P/n	Packing
029-001-001	In 500gr. tub

## Temperature recorders CHINO (6/12/24 Channel)

P/n	Model	Range	Input	Chart
030-001-001	BL 160	0-1200°C/K	6	100mm.
030-001-002	AL 3000	0-1200°C/K	6	100mm.
030-002-001	AH 3720	0-1200°C/K	12	180mm.
030-003-001	AH 3740	0-1200°C/K	24	180mm.



## Recorder charts CHINO

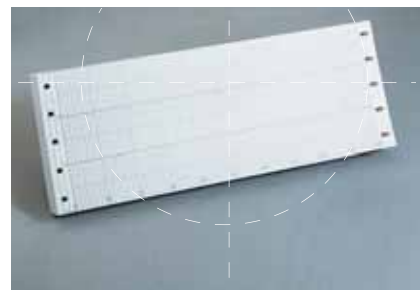
P/n	Type	Range	Measure (width)
090-001-001	EM 116	0-1200°C/linear	100mm.
090-001-002	EM 157	0-1000°C/linear	100mm.

note: 3 pcs. for box



P/n	Type	Range	Measure (width)
090-001-003	ET 035	0-1200°C/linear	180mm.
090-001-004	ET 036	0-1000°C/linear	180mm.

note: 3 pcs. for box



## Recorder ribbon CHINO

P/n	Type	Measure (width)
091-005-001	BL/AL	100mm.
091-005-002	BH/AH	180mm.



## Recorder front panel CHINO

P/n	Type
092-010-001	AL
092-010-002	BL
092-010-003	AH
092-010-004	BH





Complete connectors

P/n	Description
040-001-001	60A In-line male connector (complete)



Complete connectors

P/n	Description
040-001-002	60A In-line female connector (complete)



Complete connectors

P/n	Description
040-002-001	300A In-line male connector (complete)



Complete connectors

P/n	Description
040-002-002	300A In-line female connector (complete)

## Complete connectors



P/n	Description
040-003-001	300A In-line male welding connector (complete)

## Complete connectors



P/n	Description
040-003-002	300A In-line female welding connector (complete)

## Connector spare parts



P/n	Description
045-001-001	60A Male brass connector

## Connector spare parts

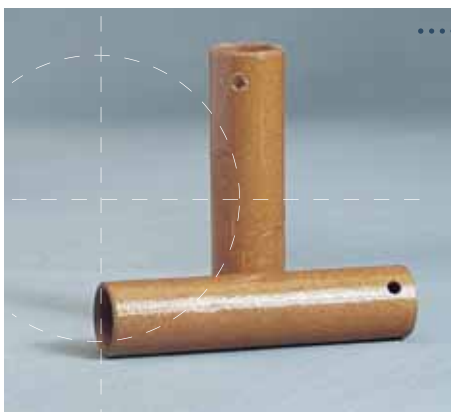


P/n	Description
045-001-002	60A Female brass connector



## Connector spare parts

P/n	Description
045-001-003	60A Sleeve retaining pin



## Connector spare parts

P/n	Description
045-001-004	60A Male insulated sleeve



## Connector spare parts

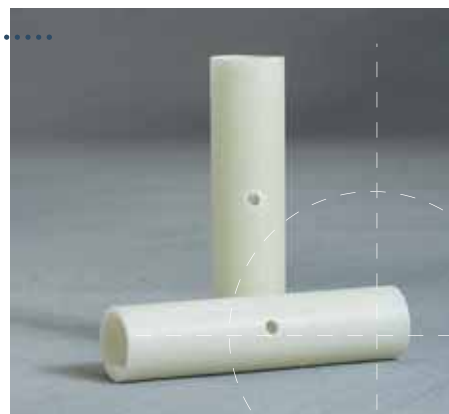
P/n	Description
045-001-005	60A Female insulated sleeve



## Connector spare parts

P/n	Description
045-001-006	60A Male fiber glass sleeve

## Connector spare parts



P/n	Description
045-001-007	60A Female fiber glass sleeve

## Connector spare parts



P/n	Description
045-002-001	300A Male brass connector

## Connector spare parts



P/n	Description
045-002-002	300A Female brass connector

## Connector spare parts



P/n	Description
045-002-003	300A Sleeve retaining pin





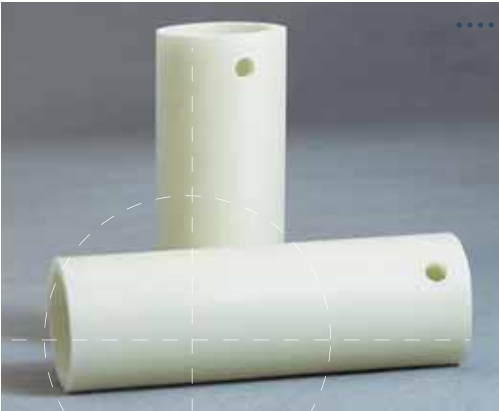
Connector spare parts

P/n	Description
045-002-004	300A Male insulated sleeve



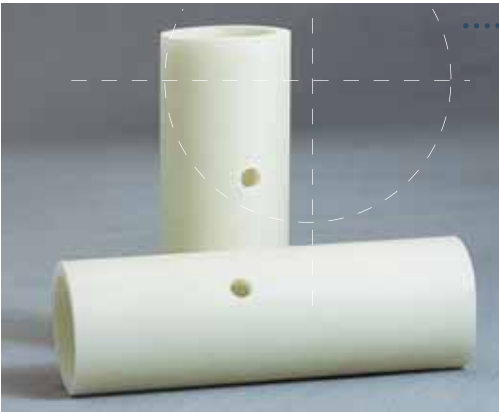
Connector spare parts

P/n	Description
045-002-005	300A Female insulated sleeve



Connector spare parts

P/n	Description
045-002-006	300A Male fiber glass sleeve



Connector spare parts

P/n	Description
045-002-007	300A Female fiber glass sleeve

## Banding



P/n	Description
070-001-050	Banding machine (BAND-IT)

## Buckle



P/n	Description
070-001-002	Buckle AISI 201, 1/2" in box 100 pcs

## Band



P/n	Description
070-001-001	Stainless steel band AISI 201, 1/2" length 30mt.

## Nail



P/n	Description
070-002-001	Nail ISO inox, 2,1x30mm. in box 1000 pcs
070-002-002	Nail ISO inox, 2,1x50mm. in box 1000 pcs
070-002-003	Nail ISO inox, 2,6x30mm. in box 1000 pcs
070-002-004	Nail ISO inox, 2,6x50mm. in box 1000 pcs
070-002-005	Nail ISO inox, 2,6x80mm. in box 1000 pcs

## Clip



P/n	Description
070-003-001	Clip (CV) ISO IC 2,6mm. in box 1000 pcs
070-003-002	Clip FE 38 x 1,8mm. in box 1000 pcs



Ceramic fiber insulation roll

P/n	Thickness	Density	Width
060-001-001	25mm.	96 kg./m <sup>3</sup>	7320x610mm.
060-001-002	25mm.	128 kg./m <sup>3</sup>	7320x610mm.
060-002-001	50mm.	128 kg./m <sup>3</sup>	3660x610mm.



Ceramic fiber mats

P/n	Thickness	Density	Width	
060-003-001	25mm.	128 kg./m <sup>3</sup>	300x300mm.	1100°C
060-003-002	25mm.	128 kg./m <sup>3</sup>	600x300mm.	1100°C
060-003-003	25mm.	128 kg./m <sup>3</sup>	900x300mm.	1100°C
060-003-004	25mm.	128 kg./m <sup>3</sup>	600x600mm.	1100°C
060-003-005	25mm.	128 kg./m <sup>3</sup>	900x600mm.	1100°C
060-003-006	25mm.	128 kg./m <sup>3</sup>	1200x600mm.	1100°C
060-003-007	25mm.	128 kg./m <sup>3</sup>	1800x600mm.	1100°C
060-003-008	25mm.	128 kg./m <sup>3</sup>	3600x600mm.	1100°C
060-003-009	25mm.	128 kg./m <sup>3</sup>	7200x600mm.	1100°C

Ceramic fiber mats stainless steel wire mesh coufred and paper type VT



Stainless steel mesh roll

P/n	Length/kg	Width
065-001-001	3,64	635mm.
065-001-002	6,50	330mm.

## Ceramic insulators



P/n	Type	Box
012-001-001	Main body bead	500 pcs

P/n	Type	Box
012-001-002	Main body bead with fixing hole	500 pcs

P/n	Type	Box
012-001-003	Side male	500 pcs

P/n	Type	Box
012-001-004	Side female	500 pcs



## Ceramic insulators

P/n	Type	Box
012-002-001	Single hole bead	250 pcs



P/n	Type	Box
012-003-001	Junction bead 42,0x9,50mm. internal diameter	100 pcs

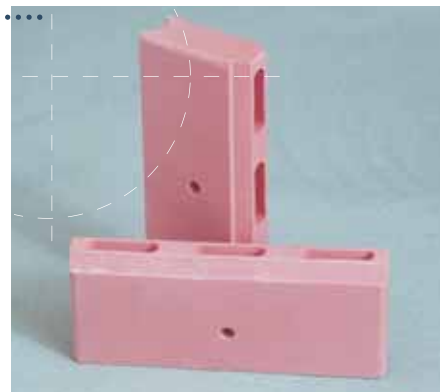


P/n	Type	Box
012-003-002	Junction bead 29,0x7,75mm. internal diameter	100 pcs



P/n	Type	Box
012-003-003	Junction bead 31,8x7,40mm. internal diameter	100 pcs

## Ceramic insulators



P/n	Type	Box
012-004-001	Main bead (tank trald)	10 pcs

## Welding ferrule



P/n	Box
013-001-001	100 pcs

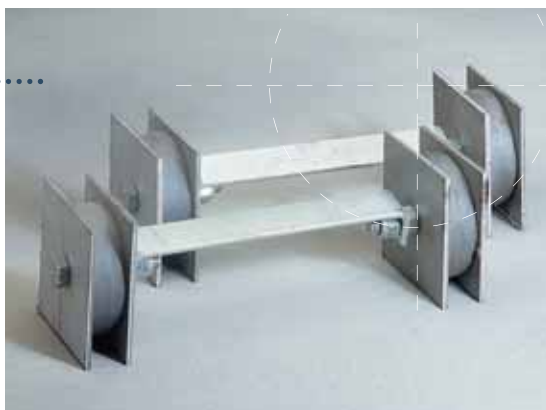
## Heater element wire



P/n	Type	Compositions
015-001-001	Ni/Cr 60/15	19 strand
015-001-002	Ni/Cr 80/20	19 strand
015-002-001	Nickel 212	19 strand
015-003-001	Ni/Cr 80/20	37 strand
015-004-001	Kanthal D	19 strand

note: 500 mt. roll

## Securing magnets (pre-heaters)



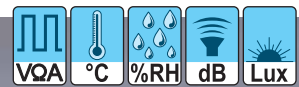
P/n	Type
017-001-001	Coupled rettangular magnets



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5 FUNCTIONS  
1 INSTRUMENT



## Digital multimeter VA18B

- USB port connect to PC
- Temperature test
- Diode test / buzzer
- Electronic protection system



P/n	Type
099-001-001	Digital multimeter VA18B

## Thermocouple calibrator VA710

- Thermocouple J, K, T, E, R, S, B, N (Standard NIST 175)
- Measuring and simulating thermocouple, temperature scale: -250 ~ 1800°C
- Temperature resolution: J, K, T, E, R, S, B, N (0,3 °C)
- Temperature error: J, K, T, E, R, S, B, N  $\pm (0,3 \text{ °C} + 10\mu\text{V})$
- Range: (V) -10mV ~ 75mV
- Resolution: 0,01mV
- Accuracy:  $\pm (0,025\% + 1 \text{ count})$
- Temperature scale: ITS 90
- Power: 1,5V (AAA x 6)
- Auto power off



P/n	Type
099-002-001	Thermocouple calibrator VA710



**Multimeter VA21**

P/n	Type
099-001-002	Multimeter VA21



**Clamp meter VA318**

P/n	Type
099-003-001	Clamp meter VA318

## Thermometer MS6500

- Input K type thermocouple
- Measurement range:  $-50^{\circ}\text{C} \sim 750^{\circ}\text{C}$
- Resolution:  $\pm 1^{\circ}\text{C}$
- Power: 9V (6F22)x1
- Size: 125,5x72x27mm
- Weight: 145g (Inclu)
- Accessory: thermocouple VA3408



P/n	Type
099-005-001	Thermometer MS6500

## Infrared thermometer VA6533

- Measurement range:  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C} \pm 2,5^{\circ}\text{C} / 50^{\circ}\text{C} \sim 537^{\circ}\text{C}$   
 $\pm(\text{reading } 1\% + 1^{\circ}\text{C})$
- Emissivity: 0,95
- Resolution:  $0,3^{\circ}\text{C}$
- Typical distance to target: 12:1
- Display LCD: 2 temperature, 4 digits
- Laser power: lower than 1mW



P/n	Type
099-005-002	Infrared thermometer VA6533

## Mini-infrared thermometer VA6510

- Measurement range:  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- Accuracy:  $20^{\circ}\text{C} \sim 0^{\circ}\text{C} \pm (\text{lettura } 1,5\% \pm 3,0^{\circ}\text{C})$
- Resolution:  $1^{\circ}\text{C}$
- Typical distance to target: up to 1 m
- Auto power off: 30s



P/n	Type
099-005-003	Mini-infrared thermometer VA6510



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