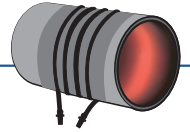


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CR2000 Series Intelligent Digital Induction Heating System

- welding preheat
- PWHT
- joint anti-corrosion coating
- shrink fit



CR2000 series – the rightful choice of an intelligent, safe, clean and rapid heating.

1. Intelligent

- ◆ Accurate control of heating area
- ◆ Accurate control of heating process

2. Safe

- ◆ No open flame
- ◆ No flue gas
- ◆ Fault protection

3. Clean

- ◆ No open flame
- ◆ No toxic gas emission

4. Rapid

- ◆ An overturn technology compared with resistance heating and fuel gas burning, saves much time for your project, and can reach **max. 788°C** for iron and magnetic conductive steel.

CR2000 series – Product Features

1. Advanced system integration

- ◆ Intelligent digital induction heating power source, is not just an advanced and high-efficient heating generator, but also works as a multi-function hub, to which we offers multiple accessories to connect, including thermocouple, digital recorder, remote switchgear, induction cable, and various types of coil/inductor that we customized for your workpieces.

2. Professional applications

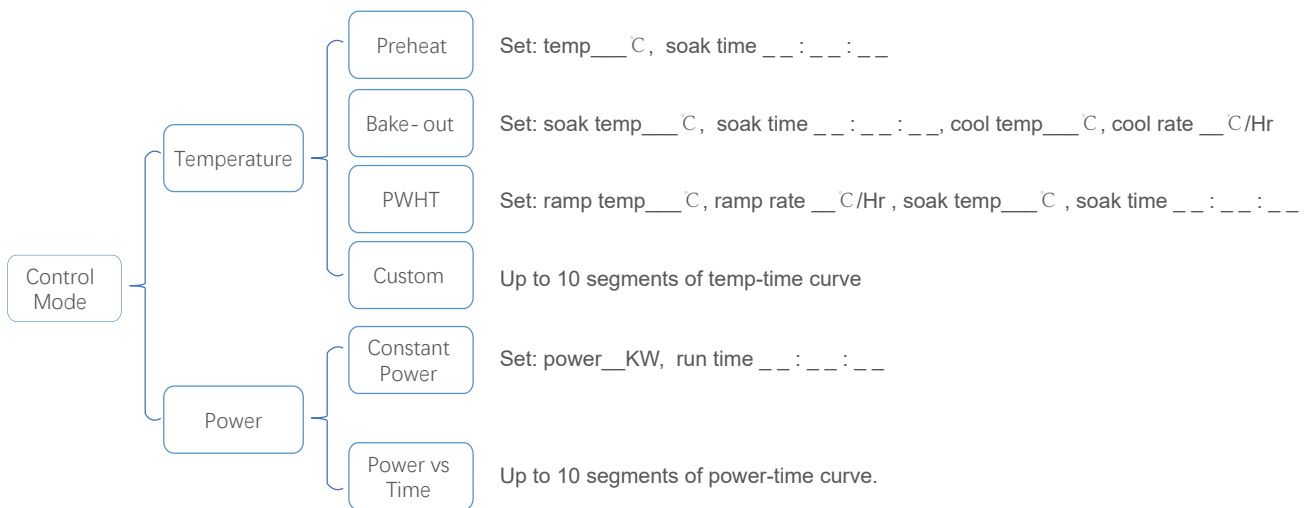
- ◆ CR2000 are designed and optimized for on-site applications: **welding preheat, PWHT, joint anti-corrosion coating, shrink fit**, etc.
- ◆ Able to heat all magnetic conductive material: iron, steel.

3. Multiple control mode built-in

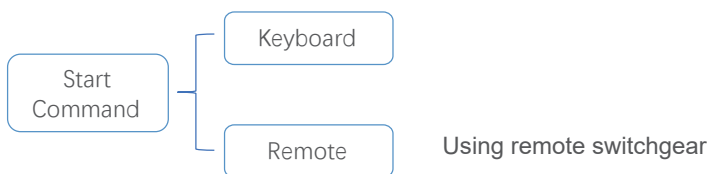
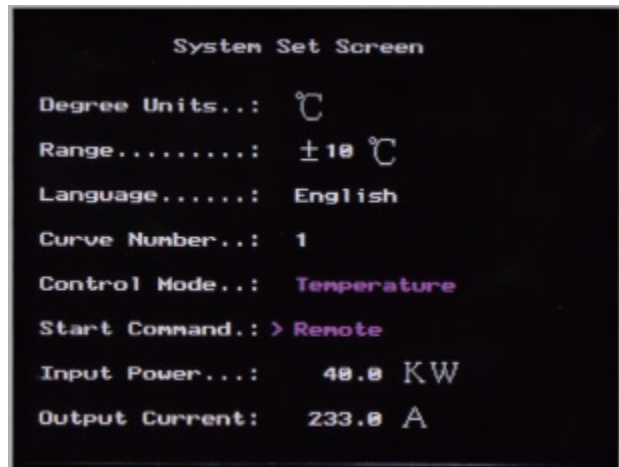
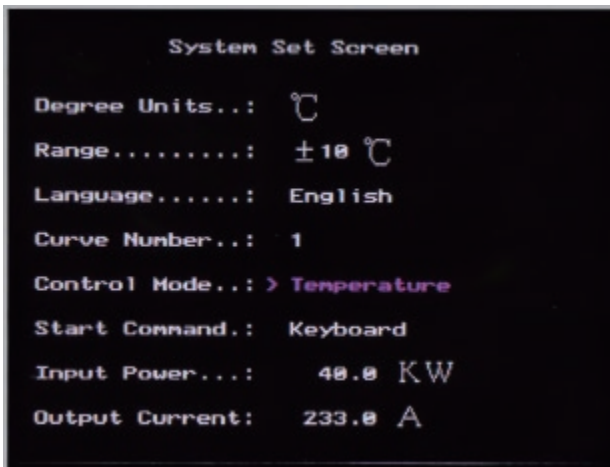
- ◆ PID temperature closed-loop control
- ◆ Power control

All control modes and parameters can be easily set and displayed in the LCD panel.





Heating curves are able to set up to 20 in quantities, and each curve up to 10 segments.



4. Monitoring of run status and fault protection

- ◆ Display of run status
- ◆ Fault code display + alarm indicator + automatic stop, upon fault occurred
- ◆ 35 fault code and 11 alarm code: over current, over voltage, phase loss, short circuit, earth leakage, overload, high temperature of heat sink / capacitor, cooling fault, communication fault, etc.
- ◆ Fault logging

Safe & friendly for operator and maintenance.

5. Module design

Whole machine is module design, makes it very friendly for maintenance.

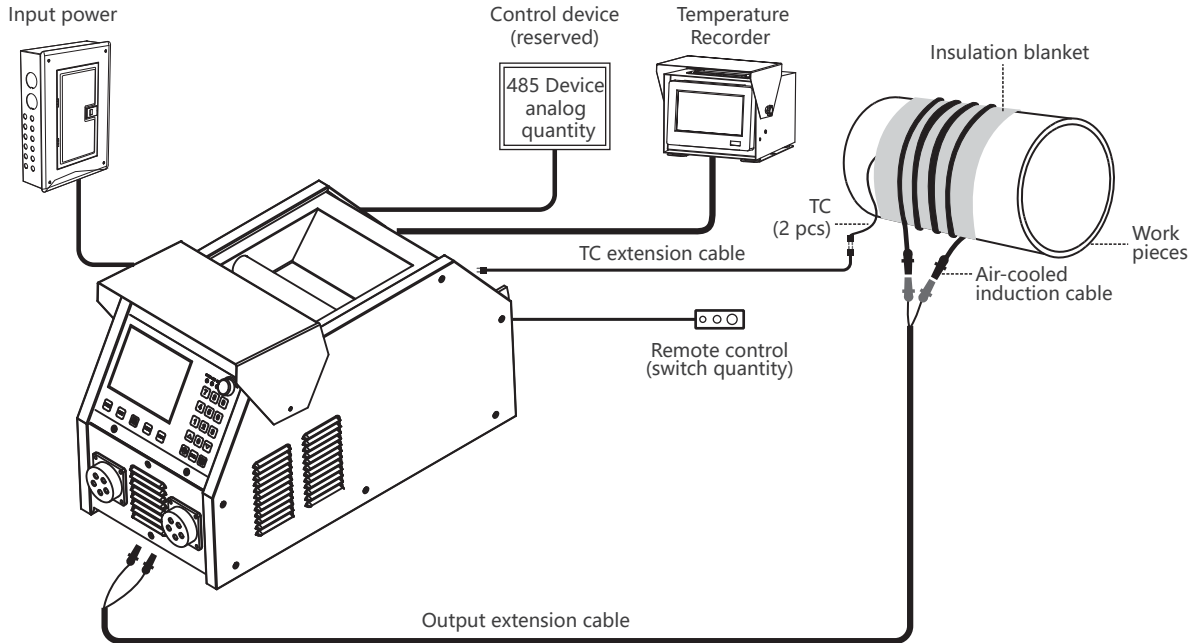
6. Air cooling

CR2000 are all air-cooling system, saves you from trouble of water cooling.

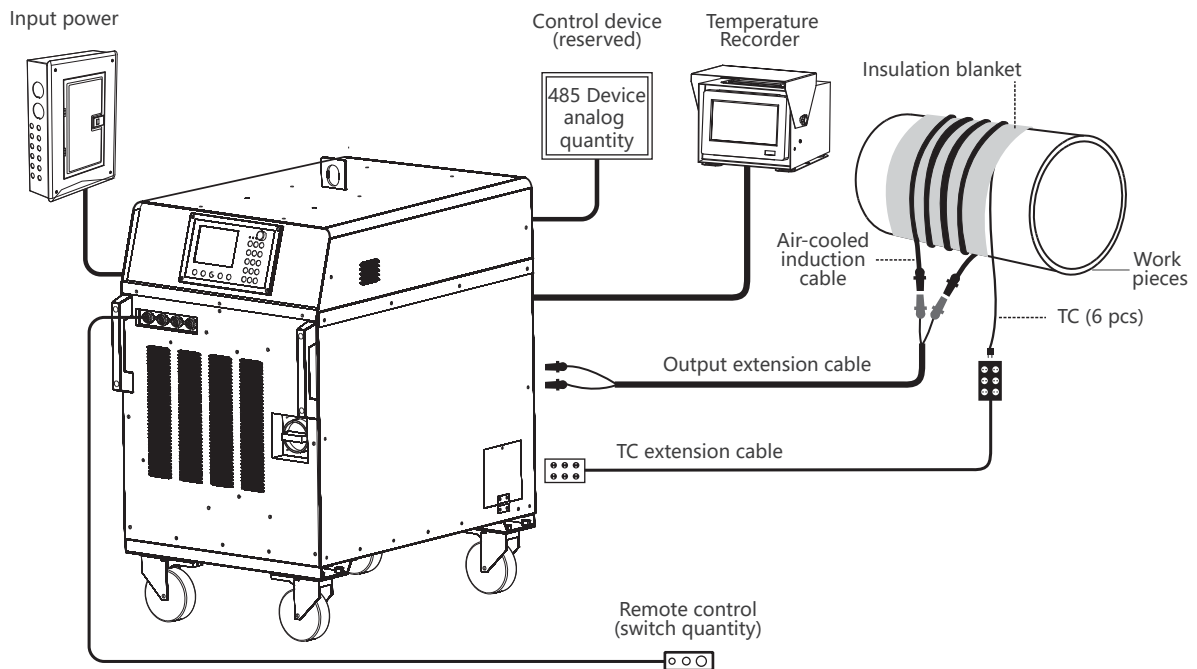
CR2000 series – System Wiring Diagram

Heating with Induction Cable

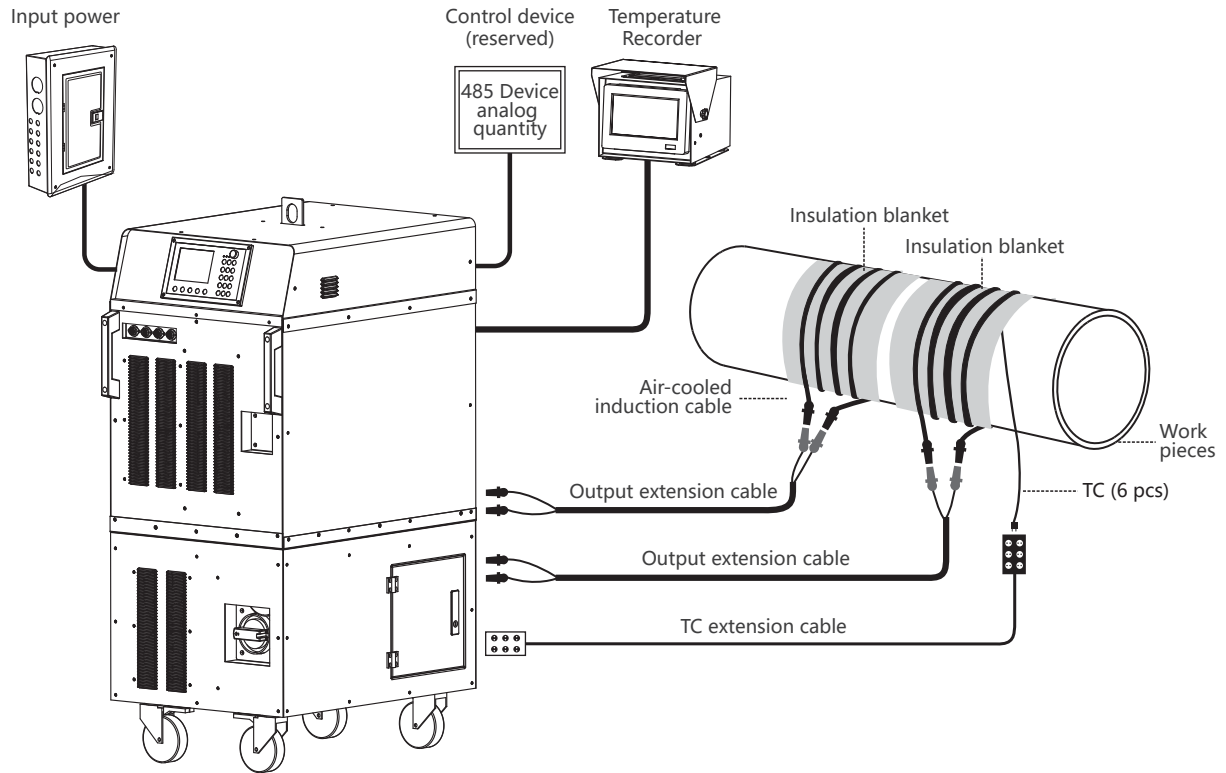
CR2000-005B-12SF / CR2000-010B/015B/020B-14TF



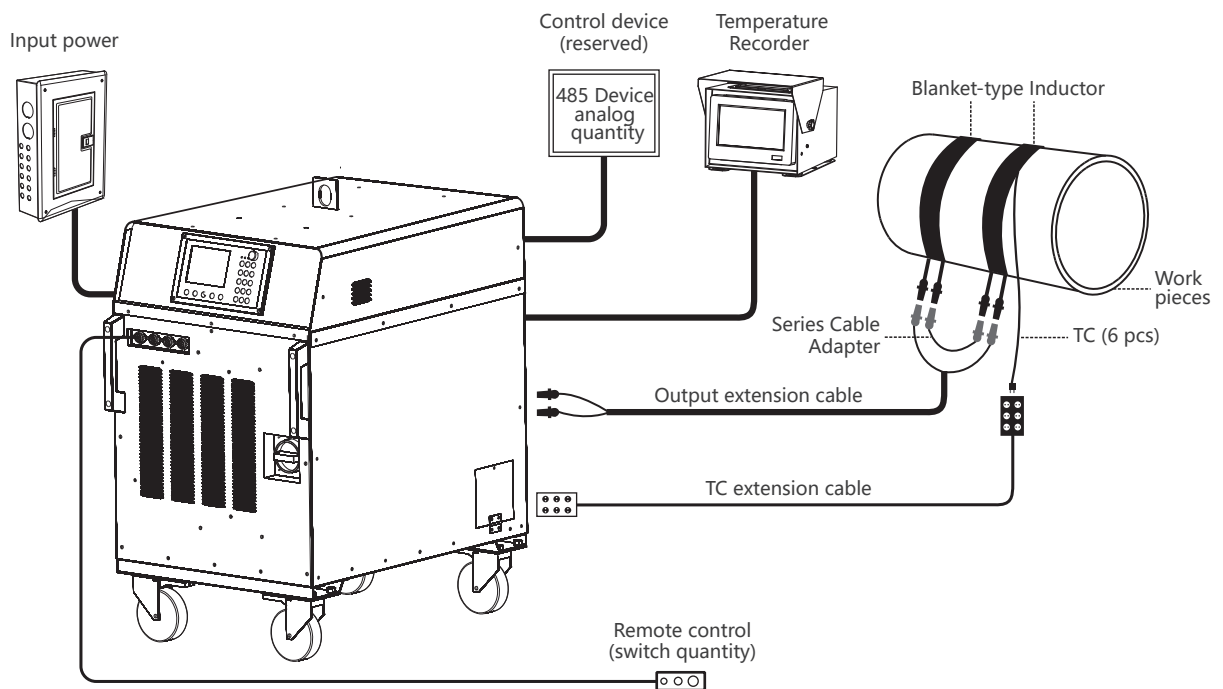
CR2000-040B/080B/120B-14TF



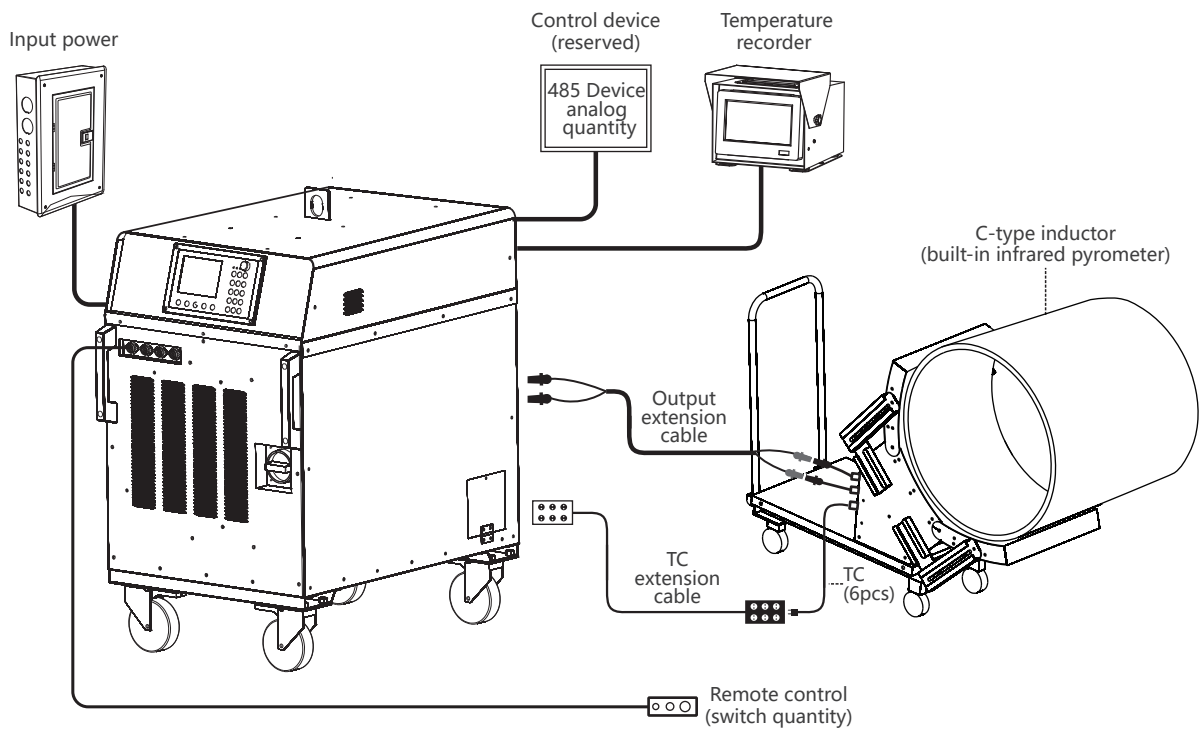
CR2000-160B-14TF



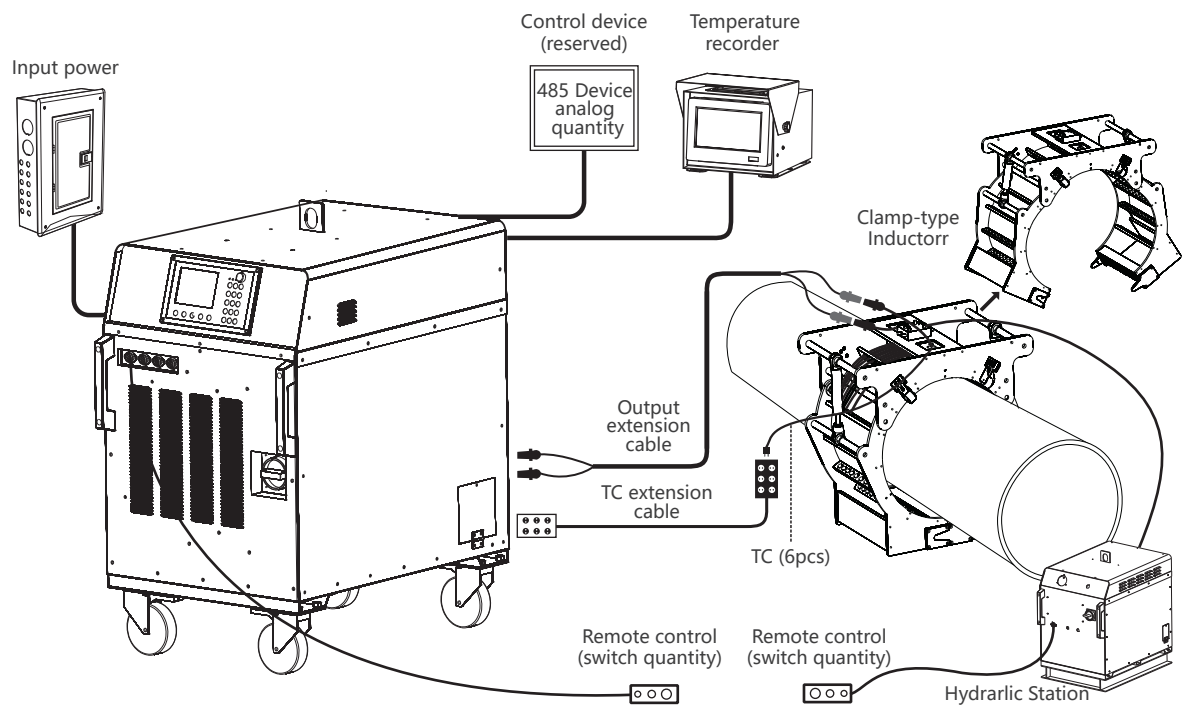
Heating with Blanket-type Inductor



Heating with C-type Inductor



Heating with Clamp-type Inductor



CR2000 series – Induction Heating Power Source

Standard specifications (Temperature rating Operation: -20°C~+50°C)

Product Model	Input	Output	Inductance Range	Dimension (without digital recorder)	Weight
CR2000-005B-12SF	Power : 5KVA Voltage : 1-phase 220-240V Frequency : 50-60Hz Current : 20.8-22.7A	Power : 4.5KW (duty cycle 100%) Frequency : 5-60KHz	1-160uH	W: 262.4mm H: 304mm D: 545mm	22Kg
CR2000-010B-14TF	Power : 10KVA Voltage : 3-phase 400V(+20%) Frequency : 50-60Hz Current : 12-18A	Power : 9kW (duty cycle 100%) Frequency : 3-35KHz	2.2-300uH		
CR2000-015B-14TF	Power : 15KVA Voltage : 3-phase 400V(+20%) Frequency : 50-60Hz Current : 18-27A	Power : 13.5kW (duty cycle 100%) Frequency : 3-15KHz			
CR2000-020B-14TF	Power : 20KVA Voltage : 3-phase 400V(+20%) Frequency : 50-60Hz Current : 24-36A	Power : 18kW (duty cycle 100%) Frequency : 3-15KHz			
CR2000-040B-14TF	Power : 40KVA Frequency : 50-60Hz Current : 50-61A Voltage : 3-phase 400V(+20%)	Power : 36kW (duty cycle 100%) Frequency : 3-35KHz	2.2-300uH	W: 548.5mm H: 747mm D: 847.5mm	95Kg
CR2000-080B-14TF	Power : 80KVA Voltage : 3-phase 400V(+20%) Frequency : 50-60Hz Current : 96-144A	Power : 72kW (duty cycle 100%) Frequency : 2.5-35KHz	3.0-500uH	W: 597mm H: 830mm D: 801mm	142Kg
CR2000-120B-14TF	Power : 120KVA Voltage : 3-phase 400V(+20%) Frequency : 50-60Hz Current : 144-216A	Power : 108kW (duty cycle 100%) Frequency : 2.5-35KHz			
CR2000-160B-14TF	Power : 160KVA Voltage : 3-phase 400V(+20%) Frequency : 50-60Hz Current : 192-288A	Power : 145kW (duty cycle 100%) Frequency : 2.5-35KHz	3.0-500uH	W: 596mm H: 1252mm D: 805mm	234Kg



2 channel TC input

6 channel TC input

Custom for extreme cold outdoors

Ambient temperature: $-40\sim 0^{\circ}\text{C}$

IP rating: IP54



Custom for extreme cold outdoors

CR2000 series – Accessories

Output Extension Cable



Induction Cable



PWHT cable



Series Cable Adaptor



TC Extension Cable



Spot-weld thermocouple



Probe thermocouple



Magnetic thermocouple



TC Welder



Digital Recorder



Remote Control



Insulation Blanket



Induction Cable Protective Sleeve



CR2000 series – Custom Inductor

Blanket Inductor



C-type Inductor



Split-core / Clamp Inductor



Hydraulic type



Manual type

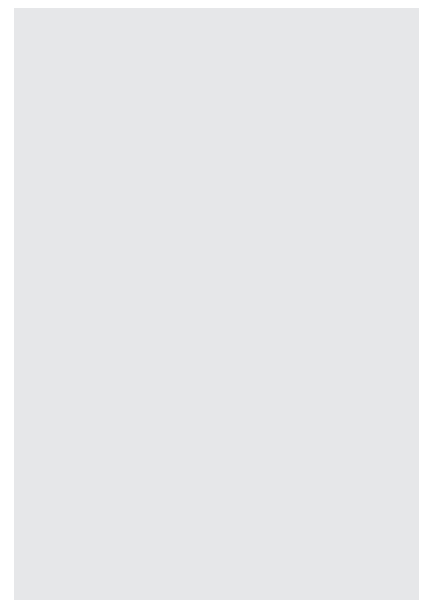
Plate / Flat Inductor

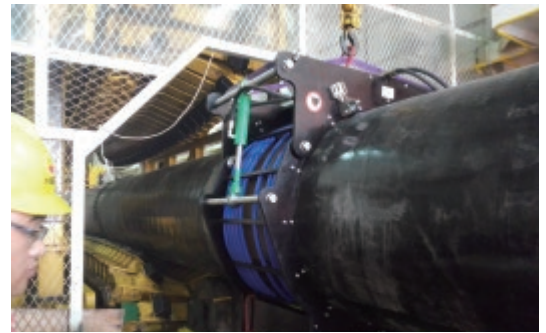


Ring Inductor



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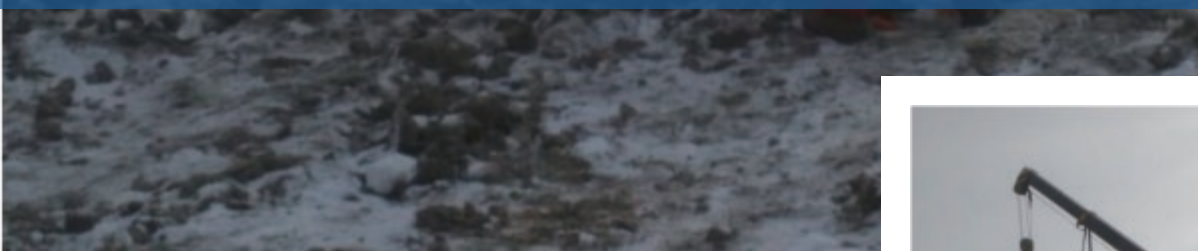


Joint anti-corrosion coating preheat

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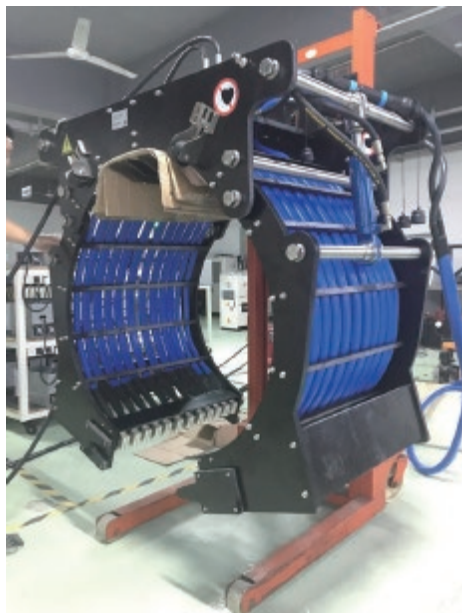


Preheat in extreme cold outdoors





Preheat in extreme cold outdoors



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Curing for jeep repairing



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Welding Preheat with C-inductor Circular seam welding





Welding Preheat with C-inductor Circular seam welding

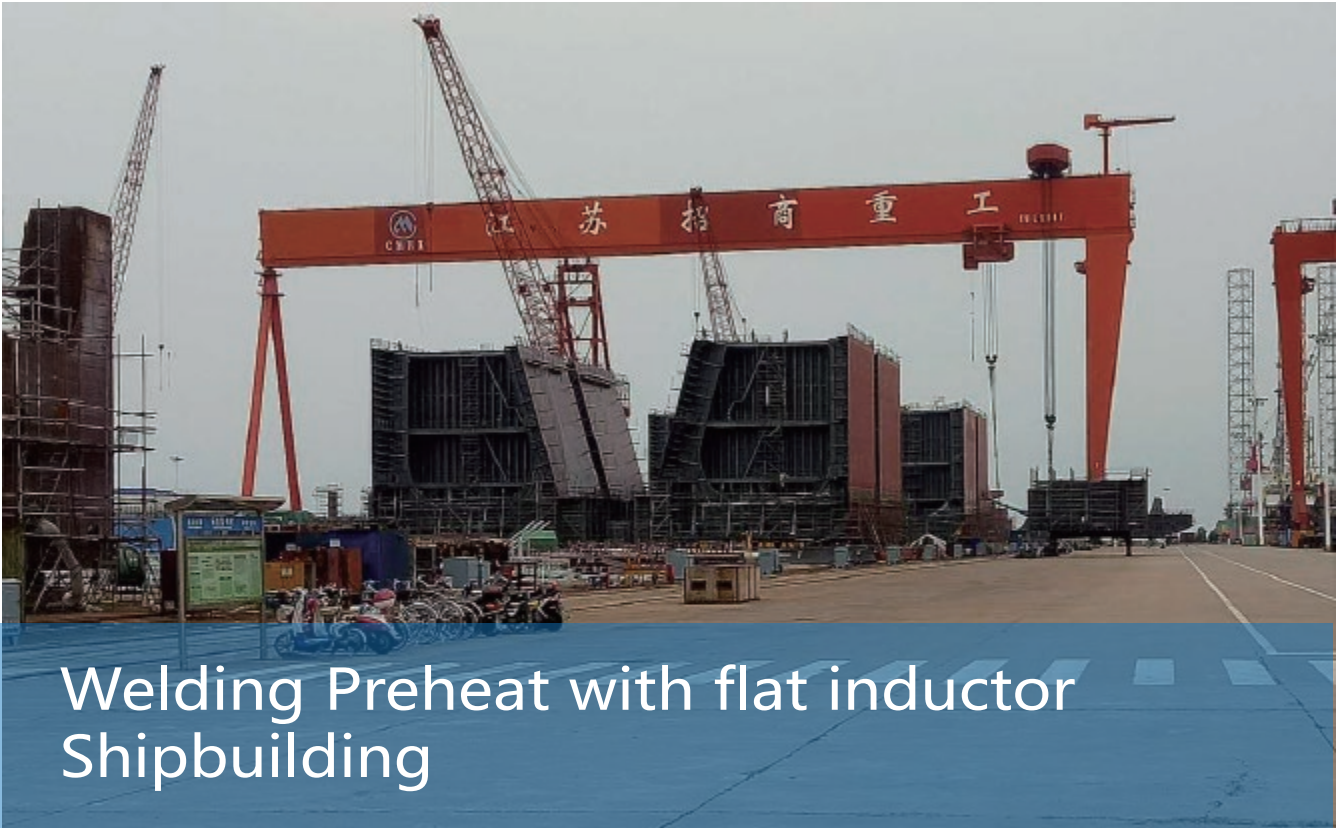


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Welding Preheat with flat inductor
Longitudinal seam welding





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Welding Preheat with flat inductor
Shipbuilding





PWHT



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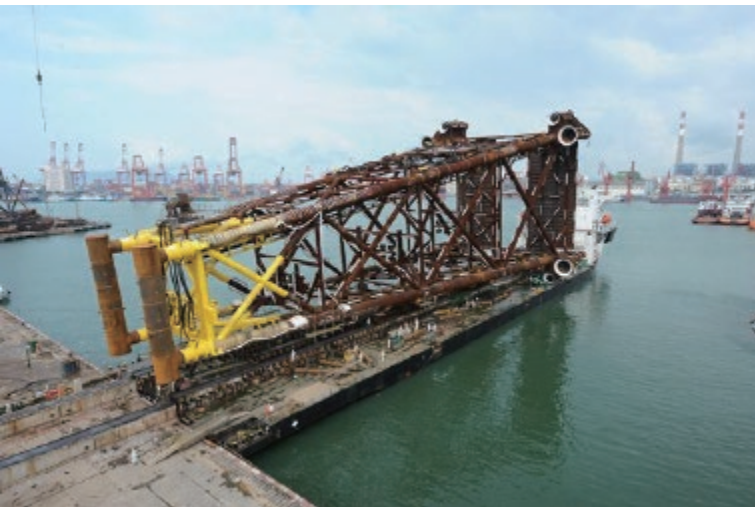
Blanket Inductor Preheat Application



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Preheat for Jacket Repair





Shrink Fitting for Rotor

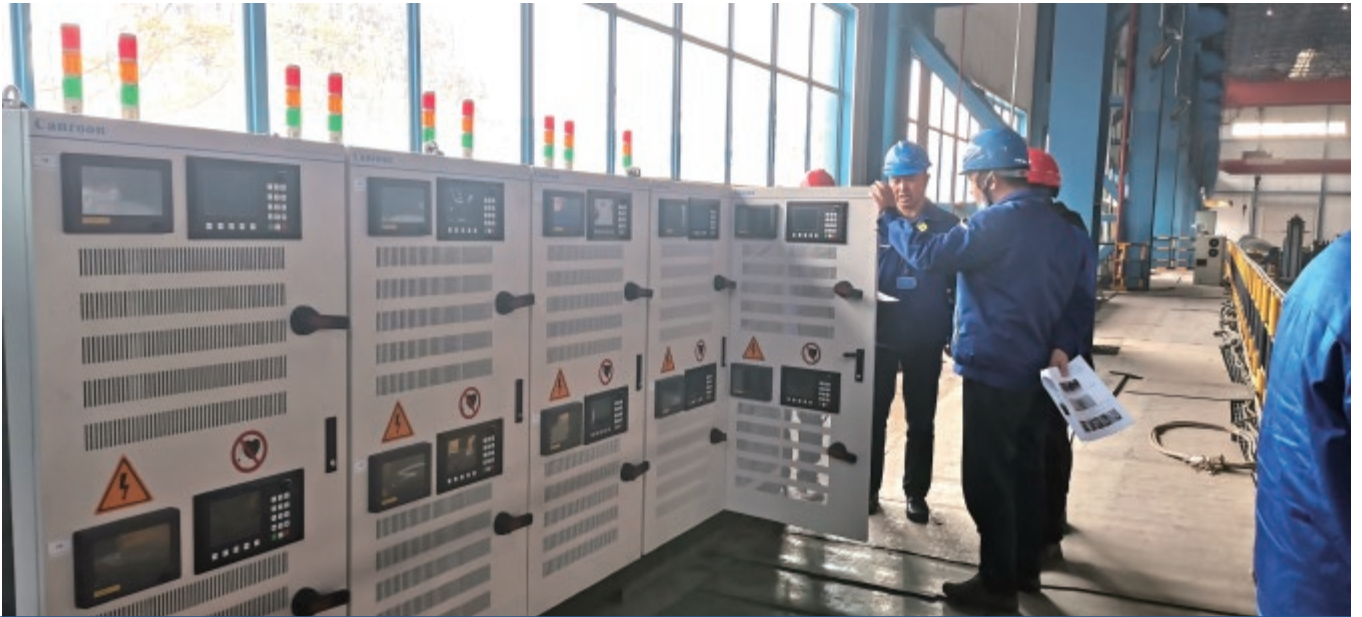


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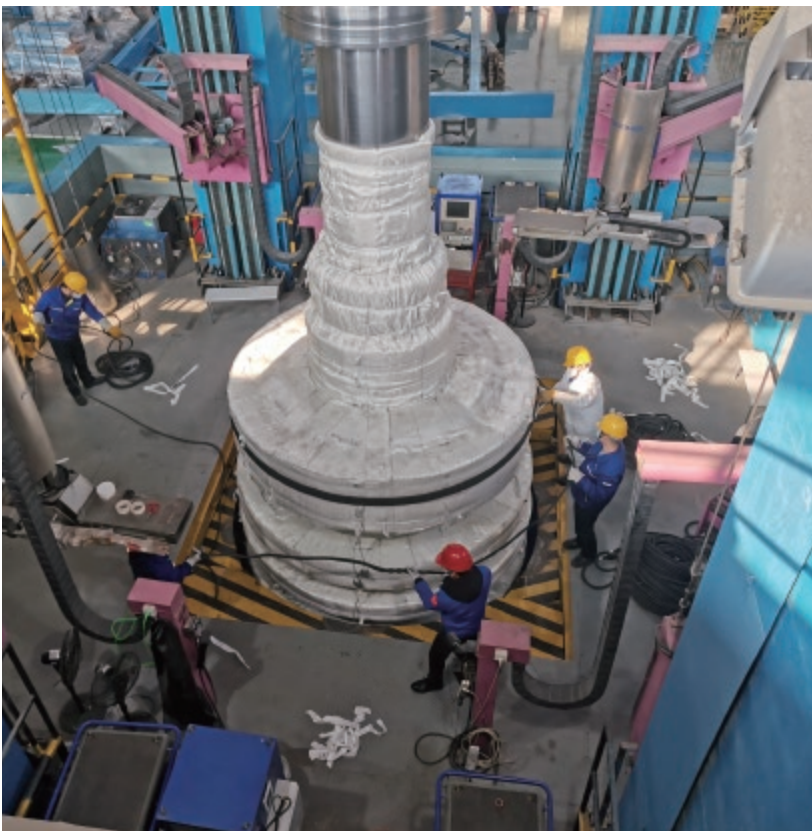


PWHT





Large-scale steam turbine rotor preheating and post-weld heat treatment



Appendix Table – accessories list

Name	Specifications	Model No.	Length	N.W. (KG)	Power Source	Picture	
Output Extension Cable	wire gauge:2*50mm ² working temp.: max. 180°C	CR140-005-FD	5M	10.7	5KVA 10KVA 15KVA 20KVA		
		CR140-010-FD	10M	19.65			
		CR140-015-FD	15M	28.7			
	wire gauge:2*110mm ² working temp.: max. 180°C	CR140-010-DE	10M	31.5	40KVA 80KVA 120KVA 160KVA		
		CR140-015-DE	15M	46.1			
		CR140-020-DE	20M	60.5			
Air-cooled induction cable	wire gauge:50mm ² working temp.: max. 180°C	CR130-005-GD	5M	5	5KVA 10KVA 15KVA 20KVA		
		CR130-008-GD	8M	6.5			
		CR130-010-GD	10M	7			
		CR130-015-GD	15M	10			
		CR130-020-GD	20M	12			
		CR130-030-GD	30M	18			
	wire gauge:90mm ² working temp.: max. 180°C	CR130-015-CE	15M	18.25	40KVA		
		CR130-020-CE	20M	24			
		CR130-025-CE	25M	29.75			
		CR130-030-CE	30M	34.5			
		CR130-040-CE	40M	47			
		CR130-050-CE	50M	57.5			
	wire gauge:110mm ² working temp.: max. 180°C	CR130-015-AE	15M	22.26	80KVA 160KVA		
		CR130-020-AE	20M	29.26			
		CR130-025-AE	25M	36.26			
		CR130-030-AE	30M	43.26			
		CR130-040-AE	40M	57.26			
		CR130-050-AE	50M	71.26			
	wire gauge:120mm ² working temp.: max. 180°C	CR130-015-EE	15M	23.6	120KVA		
		CR130-020-EE	20M	31.1			
		CR130-025-EE	25M	37.51			
		CR130-030-EE	30M	45.96			
		CR130-040-EE	40M	60.86			
		CR130-050-EE	50M	75.76			
PWHT cable	wire gauge:60mm ² working temp.: max. 400°C	CR130-010-LD	10M	2	5KVA 10KVA 15KVA 20KVA		
		CR130-015-LD	15M	3			
		CR130-020-LD	20M	4			
		CR130-030-LD	30M	5			
	wire gauge:150mm ² working temp.: max. 400°C	CR130-015-KE	15M	9.7	40KVA 80KVA 120KVA 160KVA		
		CR130-020-KE	20M	12			
		CR130-025-KE	25M	14.5			
		CR130-030-KE	30M	16.8			
		CR130-040-KE	40M	21.5			
		CR130-050-KE	50M	26.5			

Name	Specifications	Model No.	Length	N.W. (KG)	Power Source	Picture
Series Cable Adaptor	wire gauge:50mm ² working temp: max. 180°C	CR140-1X5-GD	1.5M	1.73	5KVA 10KVA 15KVA 20KVA	
	wire gauge:120mm ² working temp: max. 180°C	CR140-1X5-EE	1.5M	4	40KVA 80KVA 120KVA 160KVA	
Induction Cable Protective Sleeve	width: 10 CM Continuously working temp: 250°C; Max. temp: 600°C for 15~30s Material: Kevlar	CR180-005-BC	5M	0.77	5KVA 10KVA 15KVA 20KVA	
		CR180-010-BC	10M	1.53		
		CR180-015-BC	15M	2.31		
		CR180-018-BC	18M	2.77		
		CR180-025-BC	25M	3.85		
	width: 12 CM Continuously working temp: 250°C; Max. temp: 600°C for 15~30s Material: Kevlar	CR180-015-AC	15M	1.96	40KVA 80KVA 120KVA 160KVA	
		CR180-020-AC	20M	2.6		
		CR180-025-AC	25M	3.25		
		CR180-030-AC	30M	3.9		
		CR180-040-AC	40M	5.2		
CR180-050-AC	50M	6.5				
TC extension cable	1 TC channels	CR150-005-BB	5M	0.65	5KVA 10KVA 15KVA 20KVA	
		CR150-010-BB	10M	1.36		
		CR150-015-BB	15M	2		
	6 TC channels	CR150-010-AA	10M	2.1	40KVA 80KVA 120KVA 160KVA	
		CR150-015-AA	15M	2.74		
		CR150-020-AA	20M	3.39		
		CR150-040-AA	40M	5.5		
Spot-weld thermocouple	Measuring range: -200 ~ 1300°C	CR160-002-AA	2M	0.044	universal	
		CR160-004-AA	4M	0.07		
		CR160-006-AA	6M	0.09		
		CR160-008-AA	8M	0.12		
		CR160-015-AA	15M	0.22		
Magnetic Thermocouple	Measuring range: 0 ~ 300°C	CR160-002-CB	2M	0.168	universal	
		CR160-004-CB	4M	0.256		
		CR160-006-CB	6M	0.344		
		CR160-008-CB	8M	0.432		
		CR160-015-CB	15M	0.744		

Name	Specifications	Model No.	Length	N.W. (KG)	Power Source	Picture
Probe Thermocouple	Measuring range: -200 ~ 1300°C	CR160-002-CE	2M	0.08	universal	
		CR160-004-CE	4M	0.1		
		CR160-006-CE	6M	0.14		
		CR160-008-CE	8M	0.18		
		CR160-010-CE	10M	0.2		
Thermocouple welding machine	built-in lithium battery, rechargeable	CR100-000-AA	/	2.6	universal	
Digital recorder	channels: 6 RS485	CR110-000-CB	/	4.95	universal	
Remote Switchgear	Emergency Stop Alarm Indicator RUN/STOP	CR120-010-BD	5M	1.0	universal	
		CR120-015-BD	10M	1.55		
		CR120-020-BD	15M	2.1		
Insulation Blanket	Material: ceramic fiber working temp: max.: 1200°C Standard size width: 460mm, Thickness: 20mm Customizable	CR200-054-AA	0.5M	1.1	universal	
		CR200-104-AA	1M	2.2		
		CR200-154-AA	1.5M	3.3		
		CR200-204-AA	2M	4.4		
		CR200-254-AA	2.5M	5.5		
		CR200-304-AA	3M	6.6		
		CR200-354-AA	3.5M	7.7		
		CR200-404-AA	4M	8.8		
		CR200-454-AA	4.5M	9.9		
		CR200-504-AA	5M	11		
		CR200-554-AA	5.5M	12.1		
		CR200-604-AA	6M	13.2		
		CR200-654-AA	6.5M	14.3		
		CR200-704-AA	7M	15.4		
CR200-804-AA	8M	17.6				
CR200-904-AA	9M	19.8				
CR200-A04-AA	10M	22				

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