

# ProHeat™ 35

Part No: MR907690

## Weld Pre-Heating & Stress Relieving.



### MULTIPLE OUTPUTS

Provides two insulated connectors for air-cooled blankets or liquid-cooled cables.

### LOW CONSUMABLE COSTS

No fuel costs and minimal insulation costs. Insulation is reusable and may be used 50 times or more, reducing cost of disposal and replacement.

### ON-BOARD TEMPERATURE CONTROL

Provides for manual or temperature-based programming in a simple-to-learn operator interface.

### MULTIPLE CONTROL THERMOCOUPLE INPUTS

Control on the hottest TC during heating and coolest TC during cooling for uniform heating and quality.

### OPEN OUTPUT DETECTION

Prevents system operation without a covered output receptacle (cable or protective plug).

\*Image shows Water Cooled set up example.



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## REDUCE PREHEATING TIME BY UP TO 400%

Miller's Induction Heating system brings a part to temperature in a fraction of the time, compared to traditional flame and resistance heating processes. It also holds the part at the specified temperature.

With Miller's ProHeat™, pre-heat time can be reduced by up to 400%. To put this in perspective, companies using the ProHeat™ have reduced pre-heating time from over two hours to just 30 minutes.

### ISOLATION FAULT PROTECTION

Provides automatic system shut down should power source output short to ground. A sense lead provides direct feedback to the power source to sense fault condition.

### LIQUID COOLED INDUCTION HEATING SYSTEM

Designed for preheating, hydrogen bake-out and stress relieving applications up to 788 °C.

### EASY SET-UP

Achieved using preheat blankets or flexible heating cables combined with user-friendly insulation blankets. Easy to install primary power through panel that does not require removal of sheet metal.

### THE PRO-HEAT 35 ROLLING INDUCTION SYSTEM

A simple and cost effective heating solution which delivers fast and consistent heat to rotating parts up to 315 degrees.

### UNIFORM HEATING

Heating is maintained along and through the heat zone by using induction to heat within the material. The surface of the part is not marred by localized conducted heat at higher than specified temperatures.

### IMPROVED AND SAFER WORKING ENVIRONMENT

Welders are not exposed to open flame, explosive gases and hot elements associated with fuel gas heating and resistance heating.

### CABLE IDENTIFICATION SYSTEM

Knows the type of cable attached and limits output to protect cables and blankets.

### TIME-TO-TEMPERATURE

Faster than conventional processes due to the method of applying the heat, reducing heating cycle time.

### AIR-COOLED INDUCTION HEATING SYSTEM

Designed for preheating applications up to 204 °C.

### APPLICATIONS

Transmission Pipeline – Construction/Repair  
Pipe Fabrication Shops  
Power Piping – Construction/Repair  
Petrochemical – Construction/Repair  
Shipbuilding  
Mining Equipment Maintenance  
Drill Pipe Manufacturing  
Shrink Fit

### 1 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.



INPUT POWER	OUTPUT FREQUENCY	RATED OUTPUT	INPUT AMPS AT RATED OUTPUT	KVA/KW AT RATED OUTPUT	DIMENSIONS (MM)	WEIGHT
400 - 460 V, 3 Phase 50/60 Hz CE	5 - 30 kHz	35 kW at 100% Duty Cycle	60 A, 400 V	39/37	H: 669 W: 552 D: 933	103kg



# ProHeat™ 35 Rolling Induction System

## PRO-HEAT 35

**PART NO: MR907690**  
**400 – 460 V, CE**

The ProHeat 35 induction power source is equipped with a built-in temperature controller allowing for manual or temperature-based programming with an easy-to-learn operator interface. At more than 90 percent efficiency, the ProHeat 35 power source transfers more energy to the part, reducing operating costs over different heating methods. One ProHeat 35 power source can run a single or double Rolling Inductor setup. Note: Primary input cable and strain relief not included.



**IR SENSOR  
CONNECTION BOX**  
**PART NO: MR301182**

Required for connecting the infrared temperature sensor to the ProHeat 35. The connection box allows for two IR sensors to be connected to one ProHeat. Includes air regulator and filters.

**RUNNING GEAR**  
**PART NO: MR195436**

The running gear adds to the portability of the system. The four 127mm swivel casters with brakes mount to the bottom of the power source and cooler.

**HEAVY-DUTY  
INDUCTION COOLER, CE**  
**PART NO: MR301298**

The heavy-duty induction cooler is designed with an efficient fin-and-tube heat exchanger, 9.5 litres rust-proof polyethylene tank, high-pressure pump and blower to yield a high cooling capacity. When using two Rolling Inductors on one system it is recommended to add the external cooler heat exchanger, see Additional Accessories section.

**PRO-HEAT  
ROLLING INDUCTOR**  
**PART NO: MR301263**

18 metre power cable. Liquid-cooled induction head for use with ProHeat 35, includes thermocouple extension cable and cable cover. The optional mounting arm allows the Rolling Inductor to ride on the top or side of the pipe.



# ProHeat™ 35 Rolling Induction System



## INFRARED TEMPERATURE SENSOR PART NO: MR301149

Eliminate the need for constant manual monitoring. The infrared temperature sensor can read the temperature of a moving part. Set the desired preheat temperature and the system will quickly heat to that temperature and hold it. The sensor can read from 100 – 400 °C. Requires connection box.



## RHC-14 REMOTE HAND CONTROL PART NO: MR242211020 (6m)

**PART NO:  
MR242211100 (30.5m)**  
Remotely adjust the heat output of the system as well as start and stop the heating process.



## TRAVEL DETECT SYSTEM PART NO: MR301183

Avoid overheating—heating rates automatically adjust to varying travel speeds, and when no movement is detected the travel detect system turns off the output preventing damage to the workpiece and Rolling Inductor. The travel detect system can also be used for setting different heating rates based on workpiece speed of travel. Includes all cabling and mounting hardware.



## RPBS-14 REMOTE ON/OFF SWITCH PART NO: MR300666

Remotely start and stop the heating process with this wired push button remote.



## EXTERNAL COOLER HEAT EXCHANGER PART NO: MR300993

Increases the cooling capacity of the heavy-duty induction cooler. It is recommended when powering two Rolling Inductors on one ProHeat 35 power source.



## UNDER PIPE STAND PART NO: MR301258

Small lightweight adjustable stand for operating the Rolling Inductor on the bottom side of the pipe, allowing for greater access to the weld joint. The stand holds the Rolling Inductor in contact with the pipe regardless of direction of travel.

## Watch the YouTube Video >



Watch the YouTube Video to understand the benefits of the combination of the ProHeat™ 35 and Rolling Inductor.

RATED OUTPUT	AMBIENT TEMPERATURE RANGE		MAXIMUM PART PREHEAT TEMPERATURE	REQUIRED COOLER	DIMENSIONS (MM)	WEIGHT
	STORAGE	USAGE				
300 Amps at 100% Duty Cycle	-40 to 82 °C	0 to 60 °C	315 °C	Heavy-Duty Induction Cooler Part No: MR951142	H: 133 W: 168 D: 203	18.1 kg