Universal
HI-TECH
EQUIPMENTS FZE

Solution for the welding universe

Miller

INDUCTION HEATING MACHINE - MILLER PRO HEAT 35

Introducing ProHeat 35 –
Your ultimate solution for post and pre-heating treatment, now available for rent with or without an operator.
We also take on job work in UAE, India, and Qatar.

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Quick Specs

Applications:

- Construction and repair of transmission pipelines
- Pipe fabrication facilities
- Power piping construction and maintenance
- Petrochemical industry for construction and repair tasks
- Shipbuilding industry
- Maintenance of mining equipment
- Manufacturing of drill pipes

Shrink fitting applications

Process:

- Induction-based heating

Input Power Requirements:

- 460 to 575 VAC, 3-phase, 60 Hz
- 400 to 460 VAC, 3-phase, 50/60 Hz

Temperature Range:

- Storage: from -40°C to +60°C
- Operation: from -30°C to +50°C

Output Rating:

- 35 kW with 100% duty cycle, operating at 5 – 30 KHz

Input Current at Rated Output:

- 400 V: 60 Amps
- 460 V: 50 Amps
- 575 V: 40 Amps

Dimensions:

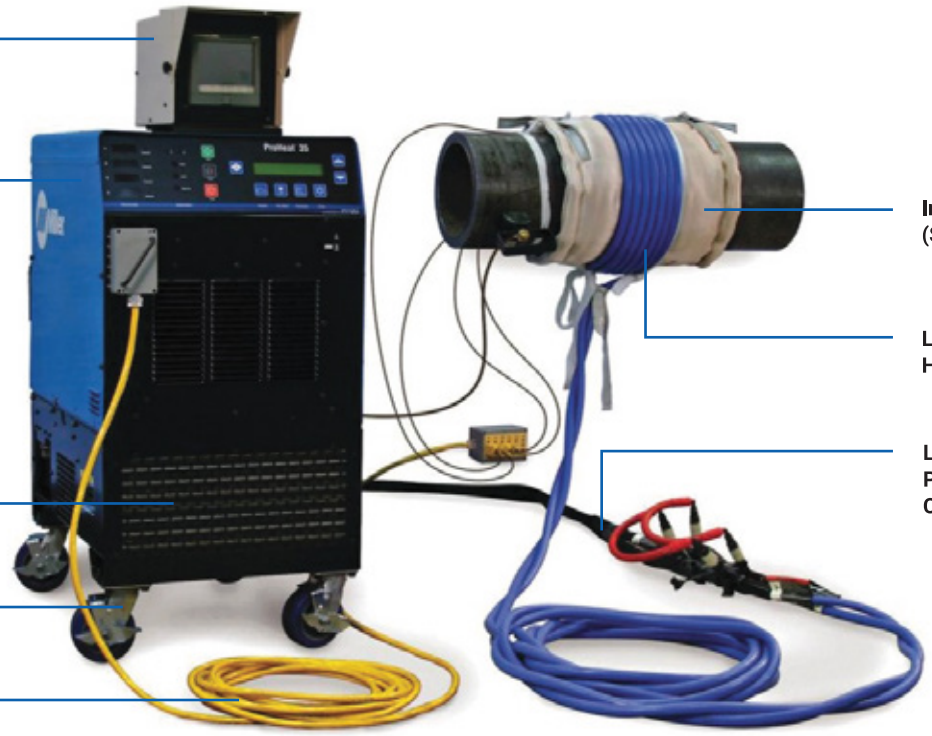
- Height: 27.5 inches (699 mm)
- Width: 21.75 inches (552 mm)
- Depth: 36.75 inches (933 mm)

Weight:

- Net weight: 227 lbs. (103 kg)
- Shipping weight: 265 lbs. (120 kg)

ProHeat 35 Liquid-Cooled Preheating and Stress-Relief Solutions

Solution for the welding universe



The Liquid-Cooled Induction Heating System is engineered for applications such as preheating, hydrogen bake-out, and stress-relieving, with temperature capabilities reaching up to 1450°F (788°C). It offers two modes of operation: Manual Programming, where power is applied to a component for a set duration, and Temperature-Based Programming, where the part's temperature governs the power output. Liquid-cooled heating cables provide excellent versatility, accommodating various pipe diameters and flat surfaces. Typically, shorter cables are preferred for smaller-diameter pipes due to ease of handling and setup, while longer cables are suited for larger-diameter pipes, small pressure vessels, and tanks. This system is ideal for preheating applications where the geometry does not allow for air-cooled blankets.

Typical Applications for Liquid-Cooled Induction Heating Systems

Pipe Fabrication Shops

- Ensures uniform heat distribution around the circumference of high-strength pipes.
- Reduces setup time and expedites the time needed to reach preheat temperatures.
- Lowers consumable costs significantly.
- Eliminates the need for propane, reducing overall expenses.

Field Construction of Power and Process Piping

- Provides even temperature distribution for high-strength pipes, ensuring uniform heating.
- Accelerates heat-up times, thus reducing the total weld cycle duration.
- Easy to set up for preheating, making it highly convenient for welders.
- Lowers consumable costs, improving efficiency.

Shrink Fit

- Expands components such as impellers and flanges, enabling easy removal or installation on shafts with interference fits.

Shipbuilding (Prop Shafts, Piping Systems, High Duty Cycle/High-Temperature Plate)

- Offers fast and consistent heating for both plate and pipe applications.
- Suitable for heavy-duty plate tasks, allowing flexibility and adaptability.
- Enhances safety by eliminating risks associated with open flames, explosive gases, or hot elements, creating a safer work environment for operators and welders.
- More energy-efficient compared to traditional resistance heating.

Mining

- Provides consistent heat across high-hardness materials, minimizing the risk of cracking.
- More versatile than air-cooled systems, especially for heating complex shapes.
- Reaches higher preheat temperatures compared to air-cooled alternatives.
- Eliminates the use of propane, further reducing operational costs.

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