

# ISC2 Linear Induction Heating System

## Advanced induction heating system cures side-seam coatings, powder or liquid on three-piece welded cans.



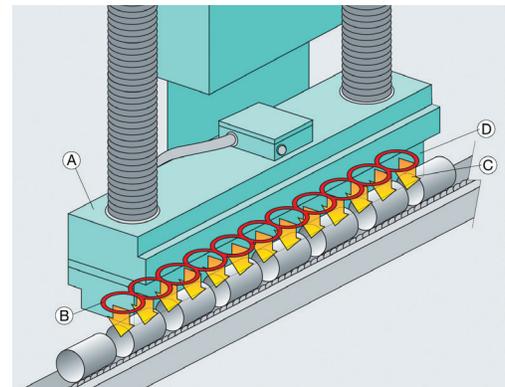
The ISC2 Linear Induction system is air-cooled – it does not require elaborate water-cooling as with other induction heating systems. It incorporates a rugged digital power supply with extensive power line protection and line filtering to protect the induction system and other electric power consuming devices in the plant. Easy to operate and install, the ISC2 system enables conversion from gas burner to induction in short time and is configurable to line speed by adding heating modules for line speed increases.

The ISC2 Linear Induction Heating System from Nordson reduces energy costs for curing three-piece side-seam coatings, powder or liquid coatings and for other applications in the metal packaging industry that require fast, efficient heating.

Energy efficient induction heating provides significant reduction in energy costs when compared to conventional gas burners, forced air or convection heating. The Nordson ISC2 Linear Induction Heating System provides direct heating of the metal substrate without using heated air or open flame burner. Can manufacturers achieve over 80 percent heating efficiency compared to gas burners and forced air heaters, which waste more than half the energy they consume.

### Features and Benefits

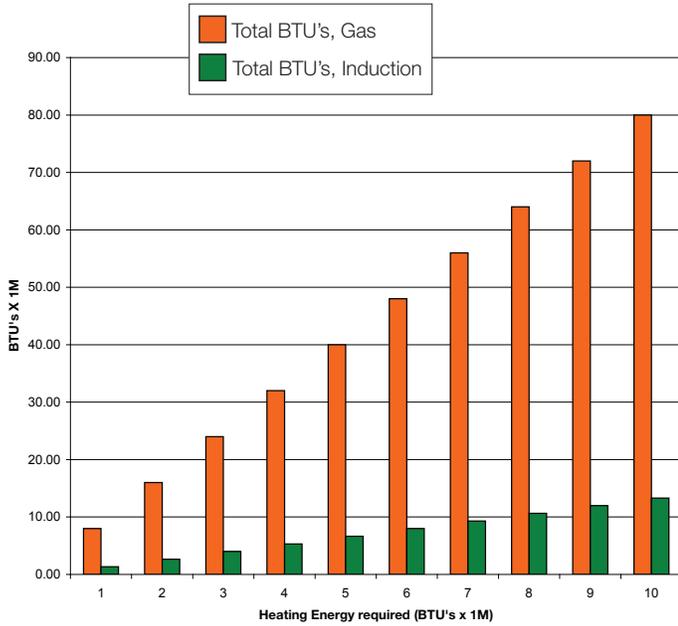
- Significantly lowers operating costs and maintenance requirements.
- Does not create greenhouse gasses (such as NOx or COx emissions from the heating system, which are restricted and regulated in many countries).
- Provides fast heating of metal – over 100°C temperature rise within one second.
- Safer than gas heating – induction does not use explosive fuel for heating.



### Induction Heating Process

- A. Coil assembly mounts over or under conveyor.
- B. Power to the induction coils is automatically switched on and off by line motion sensor for operating safety.
- C. Fluctuating magnetic fields within the coils cause eddy currents to flow in cans travelling through the heater.
- D. Insulating partition protects coils from physical contact with cans to prevent damage to coils.

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Energy consumption, gas heating vs. induction heating



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## Why choose Nordson

In highly competitive manufacturing markets, productivity is vital and performance is essential. That's why we apply both to everything we do, whether it's our products, expertise or outstanding customer service. We'll always be there to help maintain the new standards you've set, with expert service and support delivered through our teams working across the globe.

This unique Nordson approach helps you reach new levels of production, while working more accurately, efficiently and competitively than ever. Precisely why manufacturers who demand quality, can rely on Nordson.

## Nordson Industrial Coating Systems

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