**xCore Induction Heating Work Coil**

**xCore features & Benefits:**

- Greatly improve gauge control;
- Increase Mill speed;
- Reduce edge cracking and strip breaks significantly (Metal);
- Up to 98% power efficiency;
- Reduce bending force allowing less Work Roll wear;
- Important reduction in cost compare to conventional hot lubricant sprays;
- Industry leading resolution at 60mm;
- Industry leading power density at 100kW/m;
- Universal: one design fits all roll diameters;
- Patented heat channel design achieving unsurpassed reliability;
- Tailored solutions, including 60, 75 and 120mm heating width;
- Uniform heat distribution;
- Higher temperature solutions with liquid-cooled designs;
- Encapsulated in highly resistant epoxy;
- Standard mounting studs pattern compatible with Opticoil;
- Balanced magnetic flux design;
- Lower operating resonant current;

**Typical Applications:**

- Calendering
- Roll heating
- Roll edge heaters

xCore work coils are robust, highly-efficient induction heating coils designed for universal roll heating applications.

The xCore design offers industry-leading power density of 66 to 100kW per meter of roll width, improving process reaction speed and allowing for greater temperature elevations.

Liquid cooled option: xCore LC is available for roll temperature exceeding 130°C, up to 250°C.

At the heart of this new design are patented heat channels which lower the thermal impedance of the work coil, increasing its cooling capacity and attenuating internal hotspots.

The new xCore family of work coils has a balanced magnetic design, providing an even heating pattern across its entire width and reducing risks associated with stray fluxes (bearing problems).

Lower operating resonant current compared to older generation work coils, reducing losses in power module and extension cables.

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**Selection table**
### Heating Width (mm) | Maximum Power (kW) | Roll Operating Temperature (°C) | Product Number | Notes
---|---|---|---|---
xCORE 60 | 60 | 4 | 130 | V0089
 |  |  |  | V0103
xCORE 75 | 75 | 5 | 130 | V0090
 |  |  |  | V0101
xCORE 120 | 120 | 6 | 130 | V0091
xCORE 120s | 120 | 5 | 130 | V0102
xCORE 120n | 120 | 5 | 130 | V0086
xCORE 60 LC | 60 | 6 | 250² | V0098
xCORE 75 LC | 75 | 6/8³ | 250² | V0099
xCORE 120 LC | 120 | 6/12³ | 250² | V0100

Additional technical information available:
- Electrical Properties
- Mechanical Properties
- Mechanical Drawings

Contact us for additional information at info@comaintel.com or 819-538-6583 (Canada)

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¹ Maximum power can be limited for certain applications, such as gap and roll material.
² Some options could allow certain applications to go beyond this value. Contact Comaintel for further information.
³ Higher power limit requires a specific power module.