



Curing ink on aluminum bottle caps

Objective Heat aluminum bottle caps to 428°F (220°C) for curing the ink

Material Aluminum bottle cap 2.36" (60mm) tall, 1.18" (30mm) diameter & 0.01" (0.3mm) thick

Temperature 428°F (220°C)

Frequency 73 kHz

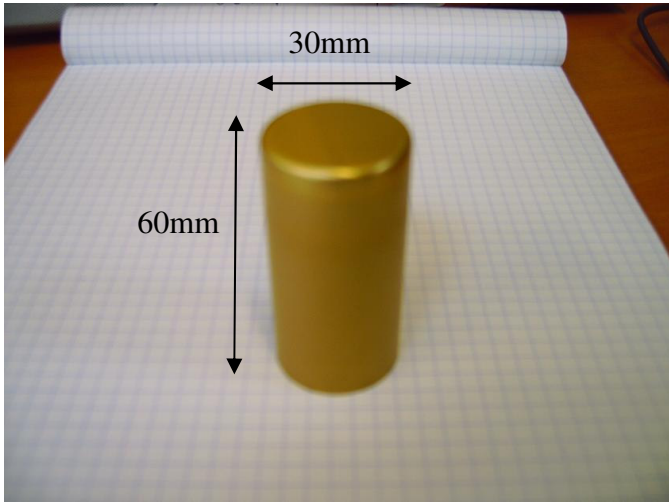
Equipment

- Ambrell 30 kW induction heating system, equipped with a remote workhead containing eight 0.33 μ F capacitors for a total of 2.64 μ F
- An induction heating coil designed and developed specifically for this application.

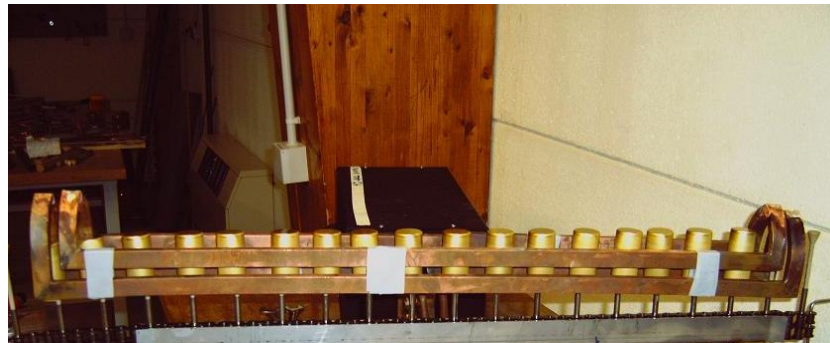
Process A double channel coil is used for the ink drying application. Fifteen bottle caps are placed inside the coil and power is applied for 3 seconds to dry the ink.

Results/Benefits Induction heating provides:

- Increased production over hot air drying
- Drastically reduced the drying floor space and exhaust requirements.
- Hands free operation



Bottle Cap



Custom designed channel coil with 15