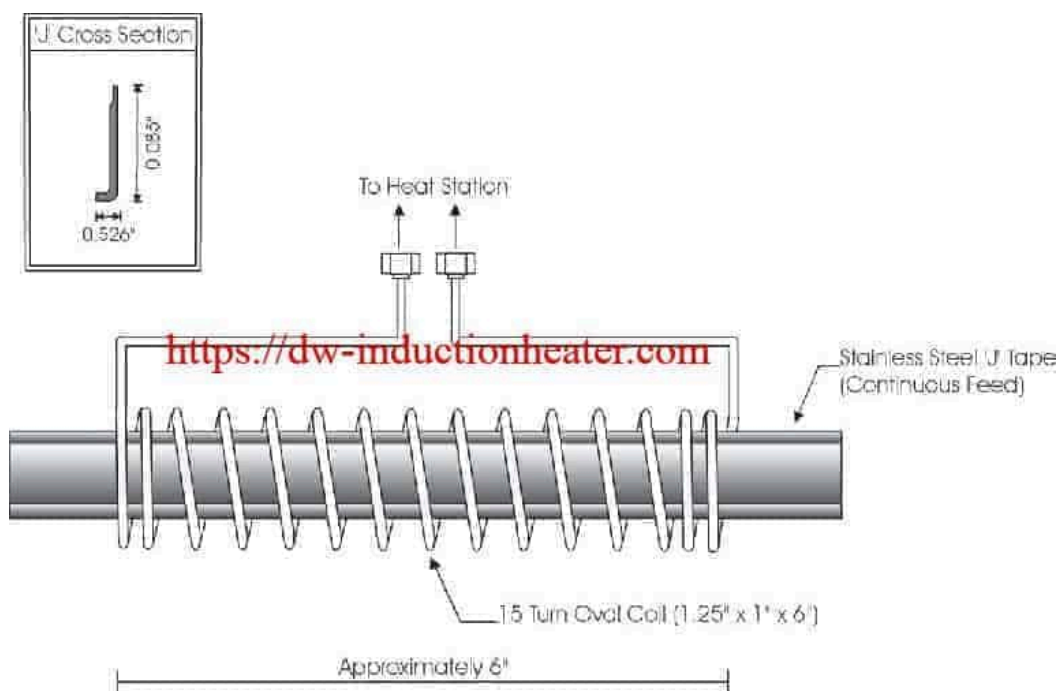


Induction Hot Forming Stainless Steel Tape

Continuously fed stainless steel tape, 0.562" × 0.028", heated in a 15-turn oval coil to aid forming the "J" shape: a 6" section reached temperature in 2 seconds in a static test – over 15 feet per minute.



2 s

6" section

15 ft/min

continuous feed

80 kHz

DW-HF-15kW

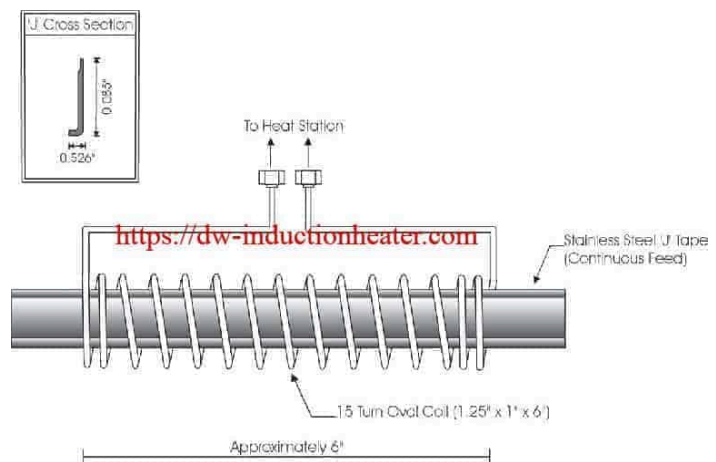
15 turns

oval coil

01 The HLQ stainless "J" tape case

Objective: heat a stainless steel "J" tape from room temperature at a rate of 15 feet per minute, to aid in forming the "J" shape from flat stock.

Item	Case data
Material	Stainless steel "J" tape, 0.562" (14.3 mm) wide × 0.028" (0.71 mm) thick, continuously fed
Frequency	80 kHz
Equipment	DW-HF-15kW solid state induction power supply; one remote heat station with one 1.2 μF capacitor
Coil	Fifteen-turn oval coil, 6" long × 1 1/4" wide × 1" high
Result	Target temperature reached on a 6" section within 2 seconds in a static test – over 15 feet per minute



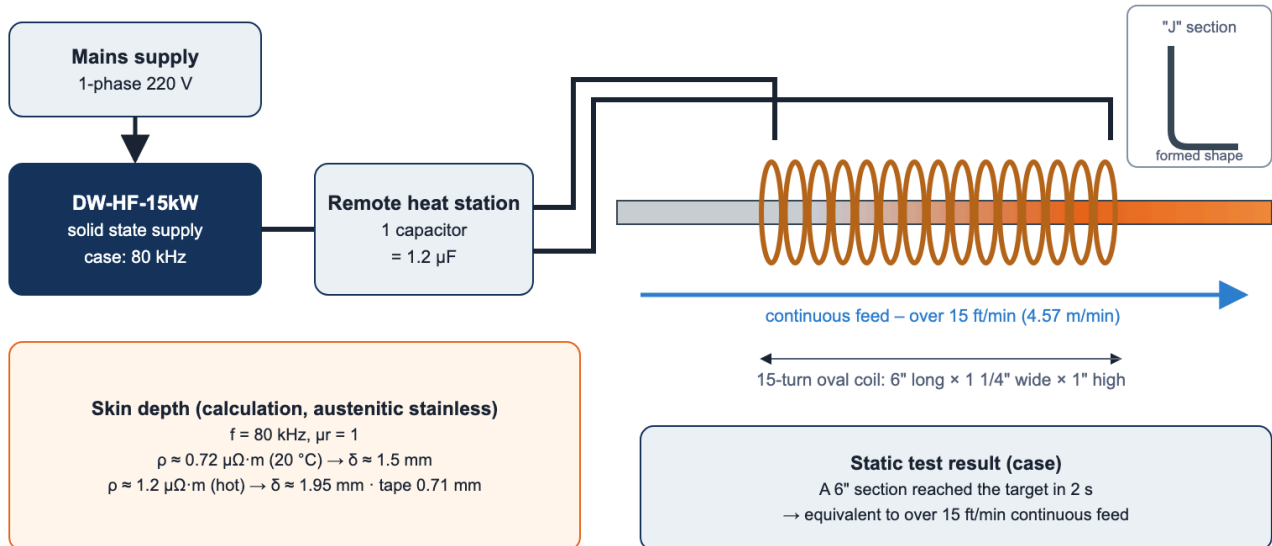
"J" cross section, 15-turn oval coil and continuously fed stainless tape (original HLQ drawing).

02 How it works

Induction Hot Forming Stainless Steel "J" Tape

HLQ

Continuously fed flat stainless tape is heated in a 15-turn oval coil to aid forming the "J" shape.

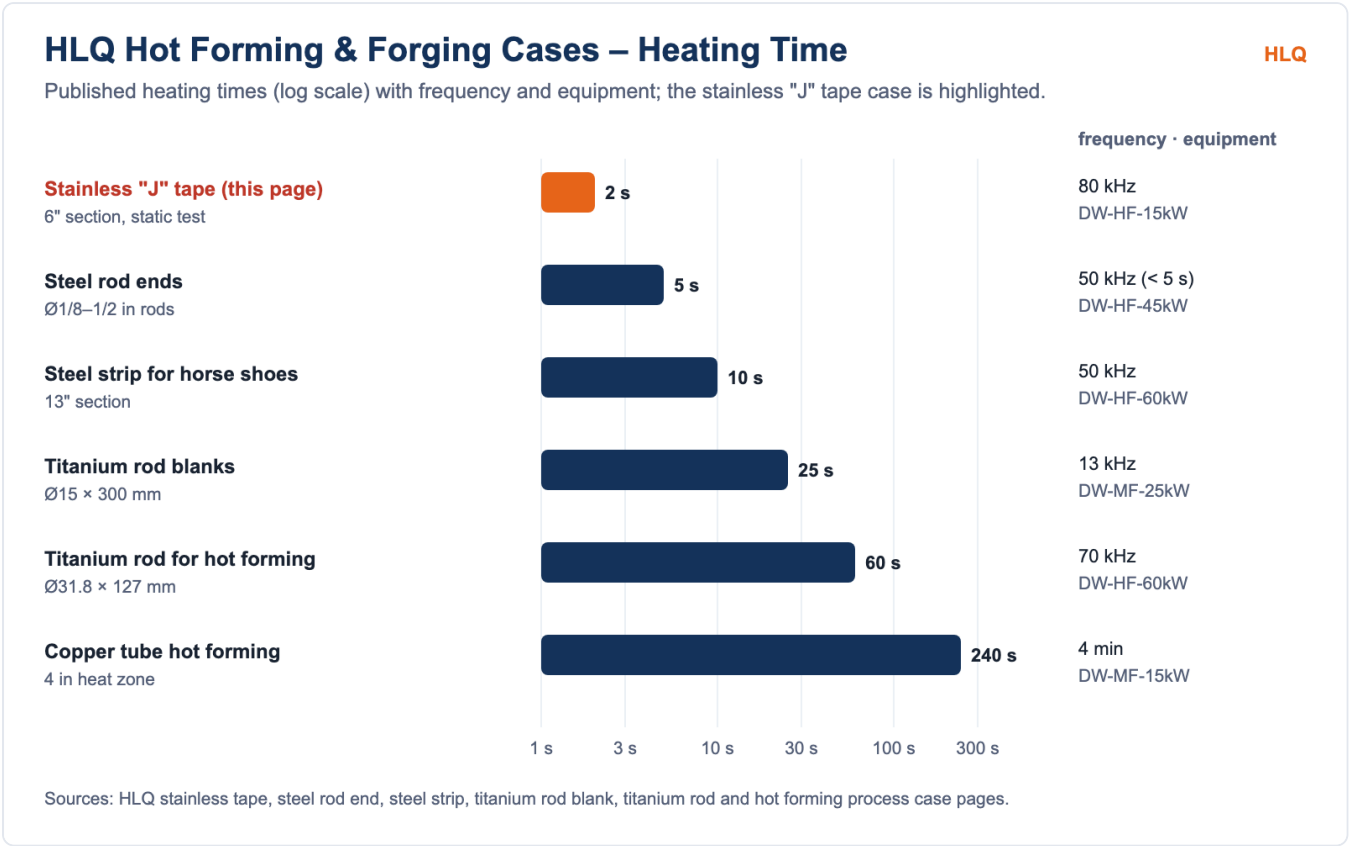


Tape: 0.562" (14.3 mm) wide $\times$ 0.028" (0.71 mm) thick per case text; drawing labels 0.526" and 0.085".

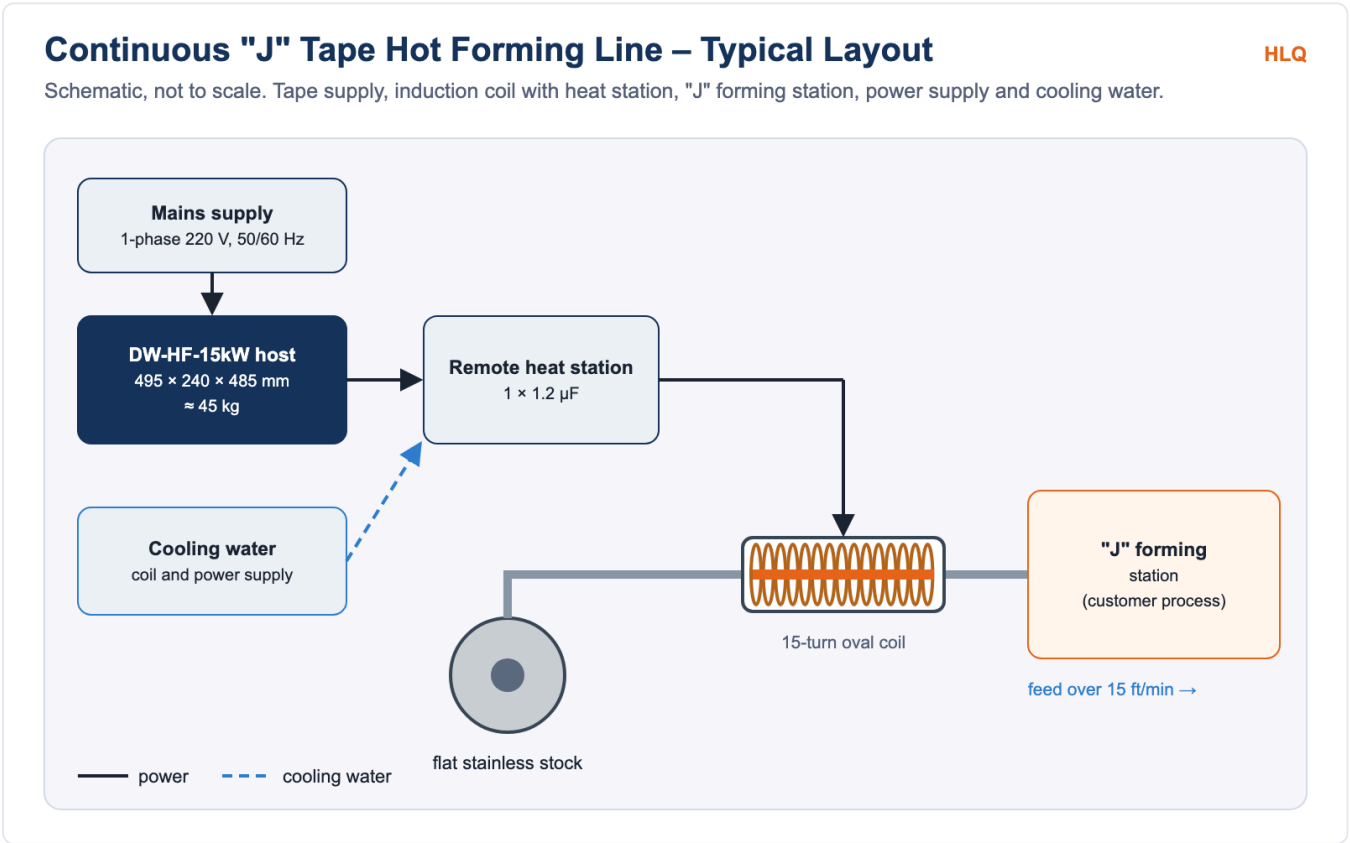
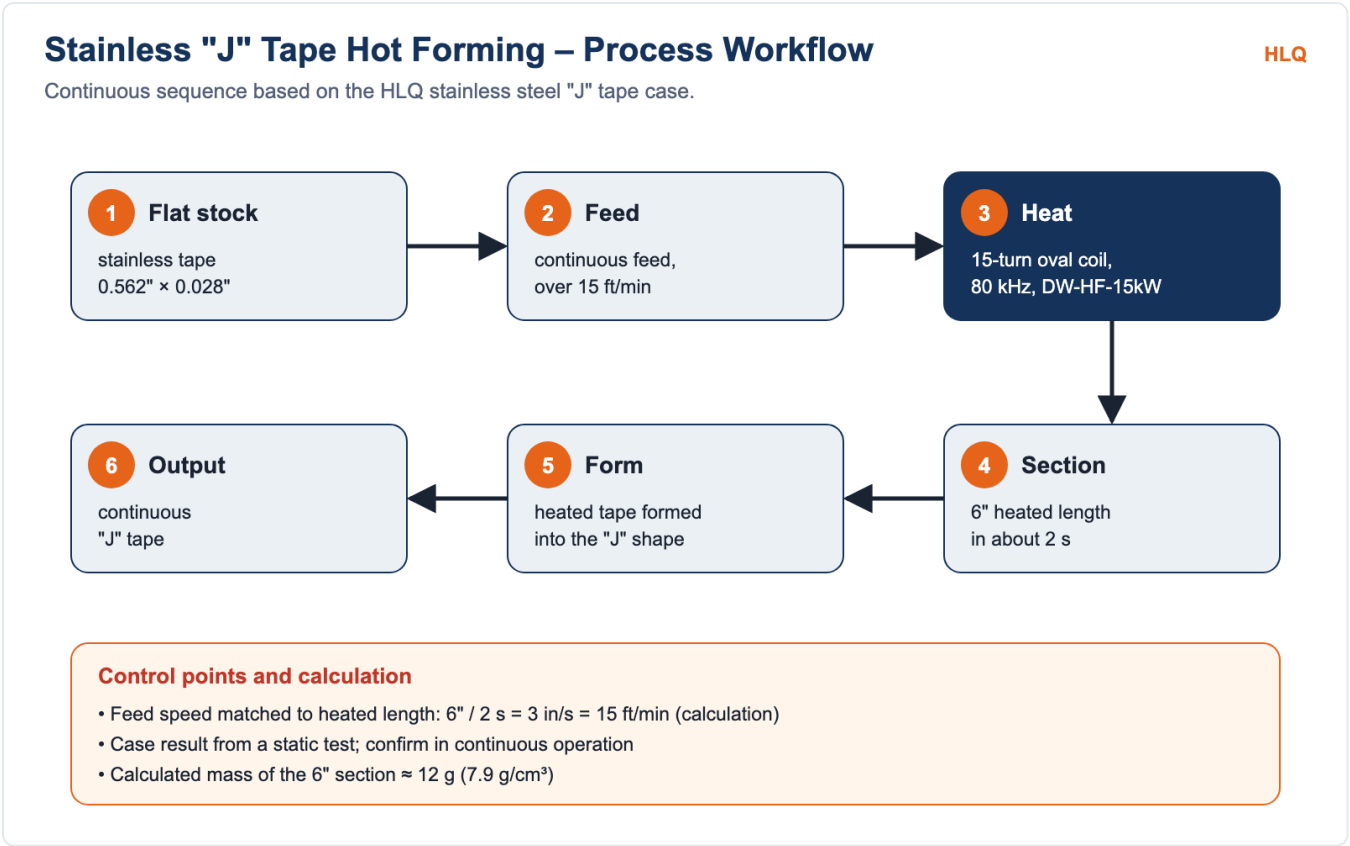
Schematic; not to scale. Coil drawn as in the case drawing (15-turn oval coil around the continuously fed tape).

The tape runs through the 15-turn oval coil, so each 6" length is heated as it passes towards the forming station. Feed rate follows from the static test: 6" in 2 s = 3 in/s = 15 ft/min (calculation).

03 HLQ hot forming and forging cases



04 Process workflow and line layout



05 DW-HF-15kW specifications

Parameter	DW-HF-15kW (product page)
Rated output power	15 kVA
Input power	Single-phase 220 V, 50/60 Hz
Oscillation frequency	30–80 kHz
Duty cycle	80% at 30 °C
Host size / weight	495 × 240 × 485 mm / ≈ 45 kg
Cable length	2–6 m
Cooling / control	Water cooling; manual or timer-controlled heating

DW-HF series (model table)

Model	Power	Max. input current	Supply
DW-HF-15	15 kVA	32 A	1-phase 220 V
DW-HF-25	25 kVA	23 A	3-phase 380 V
DW-HF-35	35 kVA	51 A	3-phase 380 V
DW-HF-45	45 kVA	68 A	3-phase 380 V
DW-HF-60	60 kVA	105 A	3-phase 380 V

06 Frequently asked questions

What was heated?

A continuously fed stainless steel "J" tape, 0.562" wide and 0.028" thick.

Why is it heated?

To aid forming the "J" shape from flat stock.

How fast?

A 6" section reached temperature within 2 seconds in a static test – over 15 feet per minute.

Which equipment and frequency?

A DW-HF-15kW with one remote heat station containing one 1.2 μ F capacitor, at 80 kHz.

Which coil?

A fifteen-turn oval coil, 6" long, 1 1/4" wide and 1" high.

What supply does DW-HF-15kW need?

Single-phase 220 V, 50/60 Hz, plus cooling water.

What do I send for a quote?

Tape grade and size, line speed, forming temperature and supply data.

Why choose HLQ

2 s heating

6" section in a static test.

Continuous

Over 15 ft/min.

Compact

Single-phase 220 V.

Custom coils

15-turn oval design.

Forming experience

Strip, rods, tape.

Full range

DW-HF and DW-MF series.

Request a strip and tape heating proposal

Send us the tape grade and size, line speed and forming temperature. We will propose the coil and power supply.

Email

sales@dw-inductionheater.com

Tel / WhatsApp / Telegram

+86 131 5596 5571

Website

dw-inductionheater.com

Factory address

Jiangbei Village, Wusha Area, Chang'an Town,
Dongguan City, Guangdong Province, China
523859

Please include in your inquiry

- Stainless grade
- Tape width and thickness
- Line speed and forming temperature
- Formed profile
- Available supply and cooling water