

# INDUCTION BRAZING

Brazing is joining of similar or dissimilar metal ( parent materials ) by using heat and braze material ( filler material ) whose melting temperature is normally above 450 °C and below the melting temperature of parent materials being joined.

Microtech induction brazing machines are made to replace conventional brazing methods, with more reliable/repeatable brazing without flame and smoke.

Brazing temperature can be controlled from 200 °C to 1250 °C for most of the brazing applications.

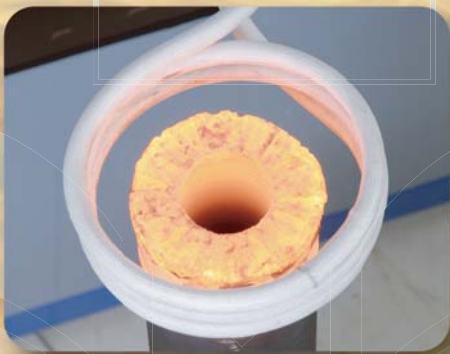
## SALIENT FEATURES

- ✓ Uniform heating at desired area provides even flow of filler metal
- ✓ Lesser brazing cost comparing to conventional methods.
- ✓ Strong and ductile joints
- ✓ Suitable for dissimilar materials
- ✓ Controlled atmosphere brazing is possible
- ✓ Highly adaptable for automation
- ✓ Eco-friendly due to noiseless and flameless operation
- ✓ No statutory approvals required
- ✓ Lesser risk involved compared to conventional methods
- ✓ Application Specific
- ✓ Auto or manual mode operation
- ✓ Improved power factor.
- ✓ Tropicalised design
- ✓ Compact size.



## BRAZING APPLICATIONS

- ✓ Copper parts for compressors
- ✓ Copper components of transformers
- ✓ Brass components
- ✓ Submersible pump rotors
- ✓ Ring cable lugs
- ✓ Aluminium component joints
- ✓ Soldering of brass components
- ✓ Steel component joints
- ✓ Brazing of storage water heater elements
- ✓ Diamond tipped cutting tool
- ✓ Carbide tipping of cutting tools
- ✓ Carbide tipping of drill bits



**MICROTECH INDUCTIONS PVT. LTD.**  
AN ISO 9001: 2000 COMPANY

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Some of the application related components

## TECHNICAL SPECIFICATIONS

Power range	05 - 15 kW.	15 - 30 kW.	30 - 50 kW.	50 - 500 kW.
Frequency range	01 - 400 kHz.	05 - 30 kHz.	05 - 30 kHz.	03 - 30 kHz.
Adaptation to change load characteristics	YES	YES	YES	YES
Load sensed self tuning	YES	YES	YES	YES
Size	W - 620 mm	W - 620 mm	W - 620 mm	W - 1000 mm
	D - 700 mm	D - 700 mm	D - 750 mm	D - 850 mm
	H - 500 mm	H - 500 mm	H - 1380 mm	H - 1450 mm
Input Power Range	Single Phase	Three Phase	Three Phase	Three Phase
	230 V / 50 Hz.	440 V / 50 Hz.	440 V / 50 Hz.	440 V / 50 Hz.

In our endeavour to make better products, Microtech Induction Pvt. Ltd. reserves the right to change any specifications at any moment and without prior notice, to the models ( including programming ), their accessories and optionals.



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