

UBRAZE ONE

MOBILE INDUCTION BRAZING STATION

EFFICIENT POWER FOR INDUCTION HEATING



BENEFITS

- Improved safety through flameless heating – no fuel gas, no oxygen bottles, no hot-work permits
- Repeatable joint quality from stored programs, independent of operator technique
- True mobility: one cart, one AC cord, no shop water and no external chiller
- Hand-held brazing allows the operator to move to the part and access hard-to-reach areas
- Durable hand-held assembly with low maintenance requirements

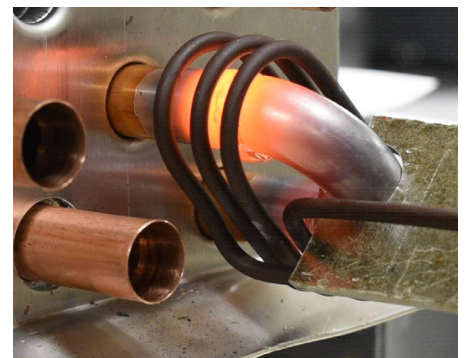
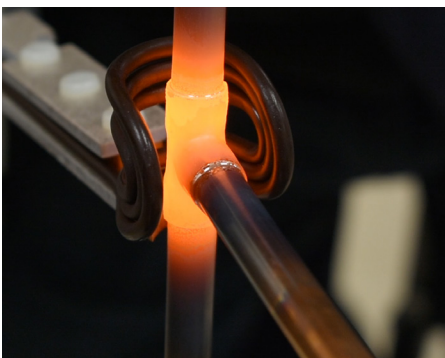
UBraze One is a mobile induction brazing station. One cart holds the induction power supply, heat station, closed-loop chiller and hand-held tool. One AC cord powers all of it. The operator rolls it to the work, selects a stored program and brazes.

UBraze is a compact induction brazing system used as an environmentally friendly and safe alternative to the flame brazing torch. Induction brazing improves joint quality through repeatable heating.

Precise energy control lets the operator set the exact time and power needed for each joint. Because the heat is generated inside the joint, less collateral heat reaches adjacent valves, insulation and finished surfaces.

APPLICATIONS

Brazing, soldering, carbide tipping, shrink fitting and preheating
Copper, brass, aluminum, steel and dissimilar joints such as copper-to-steel



HEADQUARTERS

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EFFICIENT POWER FOR INDUCTION HEATING

FEATURES

- Integrated high-performance closed-loop chiller – no facility water connection
- One AC junction box feeds power supply and chiller from a single cord
- Rugged cart: adjustable height, built-in counterweight, large casters
- Precise power control: 0 – 100 % of rated power
- Output regulation: power or current
- Parameter monitoring: current, output voltage, output power, coolant flow and coolant temperature
- Industrial control panel – 5" LCD touch, full color
- Advanced and intuitive user interface
- Multiple heating programs and profiles
- Short heating cycles with fast dynamic response
- USB connectivity for firmware upgrades
- Lightweight hand-held unit for easy access to brazing assemblies
- Standard C-shape ceramic-coated open coils; custom and saddle-type coils to application
- Optional quick coil change – coils swapped between tube sizes without tools
- Optional mounting of the hand-held unit to a counterweight system

SPECIFICATIONS

	16 kW	24 kW
Cooling System	Water-cooled with internal chiller	Water-cooled with internal chiller
AC Line Volts (50/60Hz)	380 – 480 VAC $\pm 10\%$	380-480 VAC $\pm 10\%$
Line Phases	3	3
Input current, maximum At 380 VAC -10% / 480 VAC -10%	32 A / 21 A RMS	39 A / 37 A RMS
Input power, maximum At 380 / 480 VAC	19 kVA	23 / 28 kVA
Efficiency, minimum	95 % at full load	95 % at full load
Control modes	Constant power (with current limit) Constant current (with power limit)	Constant power (with current limit) Constant current (with power limit)
Output power, maximum At 380 / 480 VAC input, nominal	16 kW	20 kW / 24 kW
Operating temperature / humidity Operating and storage	$-10\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$ ($14\text{ }^{\circ}\text{F}$ to $104\text{ }^{\circ}\text{F}$) 0 to 95 % RH, non-condensing	$-10\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$ ($14\text{ }^{\circ}\text{F}$ to $104\text{ }^{\circ}\text{F}$) 0 to 95 % RH, non-condensing
Refrigerant gas	R-513A	R-513A
Water tank	27 liters	27 liters
Overall Weight (max) Lb / kg	243 / 110	243 / 110
Dimensions, WxDxH inch / mm	24.4" x 33.5" x 47.2" / 620 x 850 x 1200	24.4" x 33.5" x 47.2" / 620 x 850 x 1200