

INDUCTION HEATING SYSTEMS



Induction Heating Power Supplies

UltraHeat SBT Series – 3 kW / 700-1200 kHz, High-Frequency Induction Heating Systems



Model	Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
SBT - 3/1200	3 kW	700-1200 kHz	230V, 1 Phase	HSB - 3

High-frequency systems tailored for precision heating or soldering of very small parts. Engineered with adaptive digital phase control ensures a seamless operation across a wide frequency range. The versatile SBT3 generators seamlessly integrate into both manual operations and automated production systems, offering unparalleled flexibility for diverse industrial applications.

UltraHeat S Series – 2-5 kW / 30-400 kHz, Water-Cooled Induction Heating Systems



Model	Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
SMT-2/200	2 kW (1 kW*)	30-200 kHz	230V (110V*), 1 Phase	HS-4W
SHT-2/400	2 kW (1 kW*)	100-400 kHz	230V (110V*), 1 Phase	HS-4W
SHT-5/400	5 kW	100-400 kHz	230V, 1 Phase	HS-5H
SMT-5/200	5 kW	30-200 kHz	230V, 1 Phase	HS-4W
SM-5/200	5 kW	30-200 kHz	230V, 1 Phase	HS-4W

* Derated to 1 kW if operating at 110V AC Line Voltage

S Series water-cooled induction units are compact, PLC-ready heaters with closed-loop temperature control for manual to fully automated lines. SMT/SHT versions add a 5-inch touchscreen offering multi-program control and on-board diagnostics.

UltraHeat S-Air Series – 2-4 kW / 20-100 kHz, Air-Cooled Induction Heating Systems



Model	Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
SMT - 2A Air	2 kW	20-100 kHz	110/230, 1 Phase	HS - 4AN
SMT - 5A Air	4 kW	20-100 kHz	110/230, 1 Phase	HS - 4AN

S-Air induction power supplies leverage high-efficiency silicon-carbide transistors and fan cooling to deliver robust output from a compact, low-maintenance package. Integrated PLC and process-control functions streamline deployment in manual, semi- or automated lines.

Solo and Solo Air Series – 12-32 kW / 3-400 kHz, Innovative Induction Heating System



Model	Output Power	AC Line Voltage	HS-16H	HS-24W	HS-32W	HS-32M	HS-32L	HS-32A
SOLO 10	12 kW	380/480V, 3 Phase	150-400 kHz	50-320 kHz	-	-	-	-
SOLO 12	12 kW	230V, 3 Phase	150-400 kHz	32-200 kHz	-	-	-	-
SOLO 16	16 kW	380/480V, 3 Phase	150-320 kHz	50-320 kHz	-	-	-	-
SOLO 24	24 kW	380/480V, 3 Phase	-	50-150 kHz	-	-	-	-
SOLO 32	32 kW	380V, 3 Phase	-	-	50-150 kHz	15-50 kHz	3-30 kHz	-
SOLO 24 Air	24 kW	380/480V, 3 Phase	-	-	-	-	-	10-25 kHz
SOLO 32 Air	32 kW	480V, 3 Phase	-	-	-	-	-	10-25 kHz

SOLO series systems employ silicon-carbide transistors to deliver high power in a compact form. Air cooling reduces maintenance needs. Integrated PLC and process-control capabilities let them slot easily into manual, semi-automatic, or fully automated production.

SmartPower™ Compac – 40-400 kW / 6-200 kHz, Induction Modular System



Model	Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
Compac M	40-400 kW	6-60 kHz	380/480, 3 Phase	1,2,3 or 4
Compac W	40-400 kW	40-200 kHz	380/480, 3 Phase	1,2,3 or 4

The SmartPower™ systems are built with 25 kW modules that can be configured from 40 kW to 400 kW and 6 kHz to 200 kHz. Our patented modular induction heating power supply utilizes the latest SiC semiconductors and Direct Digital Step Power Control technology. The modular design enables easy upgrades to higher power levels and offers the flexibility of multiple outputs within a single cabinet.

Induction Brazing Systems

Solo UBraze Series – 12-24 kW / 64-150 kHz, Mobile Brazing Systems



Model	Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
SOLO 10	12 kW	64-150 kHz	380/480V, 3 Phase	HS-24B
SOLO 12	12 kW	64-150 kHz	230V, 3 Phase	HS-24B
SOLO 16	16 kW	64-150 kHz	380/480V, 3 Phase	HS-24B
SOLO 24	24 kW	64-150 kHz	380/480V, 3 Phase	HS-24B

UBraze is a compact hand-held induction brazing system that is used as an environmentally friendly and safe alternative to the flame brazing torch. The accurate energy control allows you to work with precision and to accurately determine the time and power needed to braze each joint.

Dragon RoboStand – 16-24 kW / 50-150 kHz, Automated Brazing Systems



Model	Output Power	Frequency Range	AC Line Voltage	Reach Radius
Robo Stand 5	24 kW	50-150 kHz	380/480V, 3 Phase	up to 85 cm / 33.5 in
Robo Stand 10	24 kW	50-150 kHz	380/480V, 3 Phase	up to 130 cm / 51.2 in

The Dragon series automates and consistently brazes multiple joints by applying controllable induction heating. The robotic system is pre-programmed to apply power for a predetermined time, ensuring a repeatable and reliable brazing process. Moreover, it offers the option to be equipped with an AI assisted vision system capable of recognizing various assemblies and accurately positioning the brazing coil at each joint.

Induction Heat Treating Systems

SmartScan™ – 50-400 kW, Induction Heat Treating Scanner



Model	Output Power	Frequency Range	AC Line Voltage	Scanning Length	Rotation Speed (max)
SmartScan™	50-400 kW	5-250 kHz	380/480V, 3 Phase	150 cm / 59 inch	200 RPM
SmartScan™ Mini	50-400 kW	5-250 kHz	380/480V, 3 Phase	15 cm / 6 inch	150 RPM

SmartScan™ is a flexible and versatile induction heat-treating scanner designed to perform various heat-treating processes, including hardening, quenching, tempering, and normalizing. It offers the option to operate as a single or dual spindle unit and can accommodate a wide range of part sizes and weights.

Specialized Induction Heating Systems

UltraFlex N-Series – 2-5 kW, Nanoparticle Research Systems



Model	Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
SHT-2/400	2 kW	100-400 kHz	230V, 1 Phase	HS-4W
SHT-5/400	5 kW	100-400 kHz	230V, 1 Phase	HS-n5

N-Series systems are tailored for nanoparticle research and magnetic hyperthermia. This system is offering modular, efficient induction power supplies with adaptive digital phase control. They feature wide frequency tuning, precise output regulation, flexible impedance matching, safety diagnostics, remote/computer control, and optional heat-stations for versatile lab use.



About UltraFlex Power Technologies

UltraFlex Power Technologies has been an innovation leader in industrial induction heating solutions for over 25 years. With manufacturing facilities in the USA and Europe and sales and support centers worldwide, we offer cost-effective, energy-efficient solutions tailored to your needs.

Our mission is to continuously improve your induction heating journey by providing innovative solutions and exceptional support.

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