



# INDUCTION HEATING FOR THE WORKSHOP

## INVERTER INDUCTION HEATER DHI-15

### ADVANTAGES

- **Mobility** - weighs only 4.5 kg in a compact size comparable to a small welding machine.
- **Capacity 1.5 kW, high load factor.**
- **Easy handling and access** - coil connecting cable length of 70 cm with a small carrying handle.
- **Flexibility and simple operation** - it may be connected anywhere to the power grid with a single 230 V connection, simple and quick preparation.
- **Versatile heating elements for every application** - for shaped, flat, circular, positioned or standard parts.
- **State-of-the-art and affordable method of workshop heating.**

### APPLICATION

- Automotive, railway and ship construction industry, machine construction, car repair shops, assembly shops, plumbers and heating engineers, house hobby rooms etc.
- Manufacture, repair renovation, maintenance.
- Parts that require heating such as bolts, rod and profile steel, metallic sheets, bearings, cases, driving shafts, suspensions, nuts, pipes, gears, spring bases, shafts, lambda probes, machine and vehicle parts and components, exhausts, pulleys boxes, bushings etc.
- Heating of tools and parts prior to hardening, gluing, soldering.
- Defrosting.
- The same applications as those of LPG and autogenous burners.

**THE INDUCTION HEATER DHI-15** is designed for quick, efficient and safe heating of metallic parts. The **DHI-15** is a superior substitute to autogenous or LPG flame based heating methods in your workshop, it is particularly useful for applications with screwed joints in vehicles, cases, bearings, hubs etc.

Induction heating brings workpieces to the proper temperature faster than traditional methods and provides more control in sensitive areas such as upholstered and painted surfaces. The **DHI-15** is an advanced, efficient method for heating parts prior to hardening, defrosting, etc.

**Even and stable heating.** The object is heated evenly without local hot spots caused by flame based heating methods. Sensors ensure the part will not be overheated once the target temperature is reached.

**Safer and more comfortable working environment for the operator.** The operator is not exposed to open flame, hot gases and risk of fire and explosion as with flame heating.

**Lower operator training costs, lower wage costs.** The operators do not require frequent, regular training and certification as with autogenous and LPG based systems.

**Low consumable cost.** No operating burdens related to purchasing and leasing gas cylinders.

**Parts can be heated up to 800°C and above.**

**A highly energy efficient heating system.**



TECHNICAL DATA	DHI-15
Mains supply voltage $U_1 / I_{1max}$	230 V, 50/60 Hz
Power consumption $P_{1max}$	1.5 kVA
Working frequency	25-60 kHz, auto. adjustment
PF (power factor)	0.99 (PFC)
Continuous heating / load factor	100% *
Fixed inductors	Yes
Flexible inductors	Yes
Inductor check	Yes
Short-circuit proof	Yes
Open-circuit proof	Yes
FAN control	Yes
Weight	4.5 kg
Size (LxWxH)	200x140x75 mm

\*) Depending on material and coil used.



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### OUTFIT

- Robust IGBT transistor technology
- Short-circuit and open-circuit proof
- Automatic adjustment to resonance frequency
- Frequency: 25 kHz - 60 kHz
- Very user friendly and cost efficient
- Processor-based control system
- Overload alarm
- Connecting cable 70 cm
- Controlled fan cooling

### ACCESSORIES

- Fixed coils - heating of pipes, bolts, profiles of various diameter
- Flexible coils to be whipped around the part to be heated
- Focusing coils for the heating of flat parts, metallic sheets etc.
- Flat coils PAD - intended for heating metal sheets of car body - easy to peel off stickers, sealants, windows, etc.

**DHI-15** system will heat a M12 bolt or a nut to a temperature over 800°C in only 15 sec. The preparation and setup time for an induction heating system is much faster compared to an autogenous burner system. Simply connect the **DHI-15** to a 230V socket, install the appropriate coil type onto the part you wish to heat, then push the ON/OFF button to begin the induction process. The heating process is accomplished in seconds, even for parts requiring red hot temperatures. Induction coils may be easily replaced with bigger or smaller ones. The same applies to the heating coil to be wrapped around the part. A set of coils of various diameters may be ordered as optional items together with the induction heater.

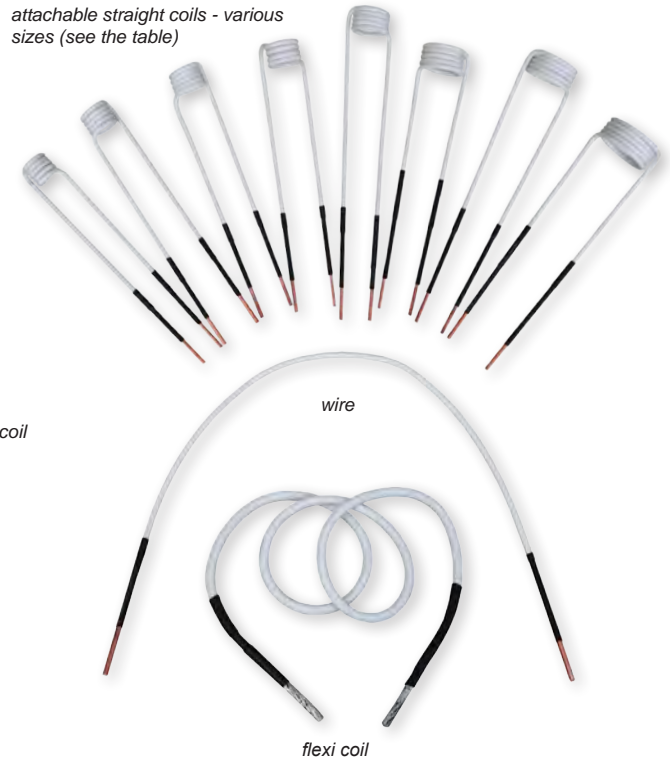


standard set of ind. heater:  
plastic case, FLEXI + PAD + 19 + 26 coils



PAD coil removal

focusing coil



attachable straight coils - various sizes (see the table)

wire

flexi coil

### Order No. of set and accessories

SET AND COILS	Description	No.
	DHI-15 + case + flexi + PAD + 19 + 26 coils	DHI-15-SET
	Induction wire, d=4 mm, l=750 mm	DHI-IND075
	PAD coil removal	DHI-REMOVAL
	Focusing coil 20/220 mm	DHI-SPOT
	Flexi coil 10 m <sup>2</sup> , l=800 mm	DHI-FLEXI800
	Set of 8 coils 15-45 mm	SET-8S or B



set of 8 coils 15-45 mm



attachable side coils - various sizes (see the table)

ATTACHABLE COILS	Description	No. of straight coil	No. of side coil
	Coil /15/220 mm / M6	DHI-IND415/220/M6-S	DHI-IND415/220/M6-B
	Coil /19/220 mm / M8	DHI-IND419/220/M8-S	DHI-IND419/220/M8-B
	Coil /20/220 mm / M8	DHI-IND420/220/M8-S	DHI-IND420/220/M8-B
	Coil /23/220 mm / M10	DHI-IND423/220/M10-S	DHI-IND423/220/M10-B
	Coil /26/220 mm / M12	DHI-IND426/220/M12-S	DHI-IND426/220/M12-B
	Coil /32/220 mm / M16	DHI-IND432/220/M16-S	DHI-IND432/220/M16-B
	Coil /38/220 mm / M20	DHI-IND438/220/M20-S	DHI-IND438/220/M20-B
	Coil /45/220 mm / M22	DHI-IND445/220/M22-S	DHI-IND445/220/M22-B



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