

# INDUCTION Safe heating

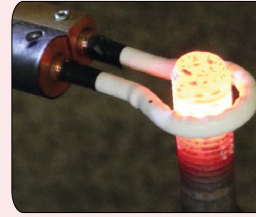
## Functionality and benefits of the induction principle for the bodywork and commercial vehicle sector

### How it works:

The induction heater and its accessories ensure that heat is only applied where it is actually needed, without contact. Since electromagnetic induction only occurs with conductive materials, non-conductive materials (such as glass, rubber, plastic, painted surfaces, etc.) are spared from heating and the resulting damage; an open flame is no longer necessary and the associated fire hazard is virtually eliminated.

### Area of application and benefits:

- ▶ For quick and easy removal of parts on vehicles by applying heat, e.g.: Glass panes, panelling, stickers, films or similar
- ▶ Targeted and precisely dosed heat application within seconds thanks to state-of-the-art microprocessor technology
- ▶ Complete protection of surrounding areas and prevention of damage to painted surfaces, glass, rubber, plastic, etc.



### Mechanics and maintenance

- ▶ Loosening or disassembly (steering push rods, tie rod end parts, brake discs, brake hoses, exhaust flanges, exhaust pipes, damper nuts, secured screws)
- ▶ Heating of longitudinal beams (except HSS steel)
- ▶ Loosening bolts



### Car body

- ▶ Removal of steel or aluminium elements
- ▶ Straightening warped chassis (except HSS steel)



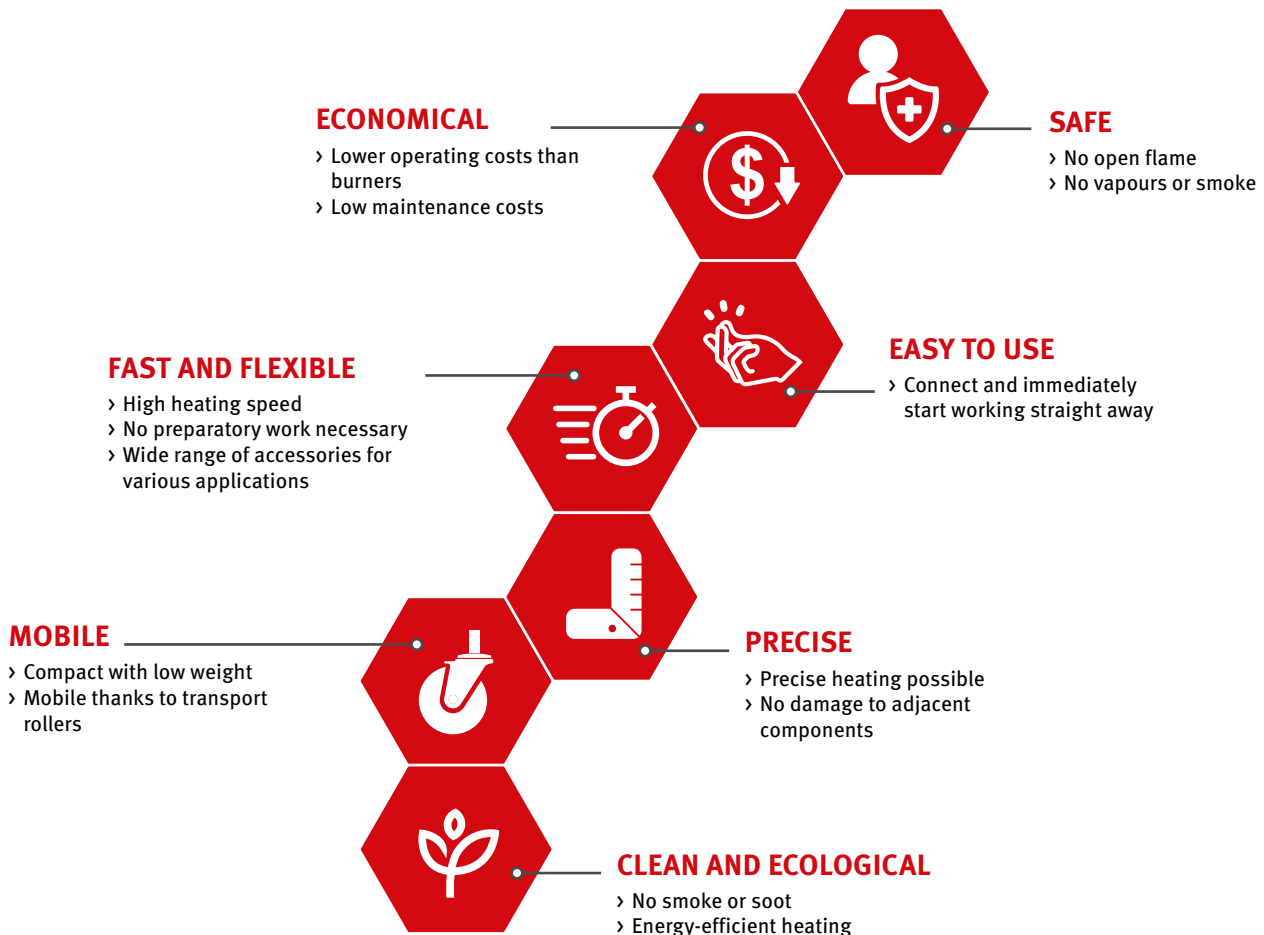
### Soft and hard soldering

- ▶ in the manufacture of air conditioning systems, etc.
- ▶ Hard soldering of copper pipes with silver
- ▶ Soft soldering with tin



### Heating in manufacturing and industry

- ▶ Heating and warming before welding
- ▶ Heating metal parts
- ▶ Heating for bending work
- ▶ Point heating
- ▶ Straightening
- ▶ Forging
- ▶ Preheating



## IHG 1500 - Induction heater. Extremely versatile in the bodywork and commercial vehicle sector



- ▶ Due to its extremely **small design** and its **low weight**, the IHG 1500 **can be taken almost anywhere and to any location** using a carrying or shoulder strap and **used**.
- ▶ Handle for the highest ergonomic demands and outstanding ease of use
- ▶ Removal of minor panelling, stickers, films and similar items, e.g. on bodywork and commercial vehicle parts and commercial vehicle parts
- ▶ Ergonomic handle for comfortable handling



**4.5 KG ONLY**



### Scope of delivery:

Coil holder
Front coil M 8
Front coil M12
Winding cord
Flat spiral coil
Carrying strap
Plastic case



### Control concept

- ▶ Targeted and precisely dosed heat application within seconds thanks to state-of-the-art microprocessor technology
- ▶ Heating the parts to over 800°C
- ▶ Quick and easy to use
- ▶ High efficiency
- ▶ Prevention of overheating thanks to two fans
- ▶ High operational reliability thanks to self-monitoring with visual status signal

### Accessories

	Art. no.
<b>Front coil (L = 220 mm)</b>	
- Ø 15 mm / M6	1760015
- Ø 19 mm / M8	1760019
- Ø 20 mm / M8	1760020
- Ø 23 mm / M10	1760023
- Ø 26 mm / M12	1760026
- Ø 32 mm / M16	1760032
- Ø 38 mm / M20	1760038
- Ø 45 mm / M22	1760045
<b>Side coil (L = 220 mm)</b>	
- Ø 15 mm / M6	1760115
- Ø 19 mm / M8	1760119
- Ø 20 mm / M8	1760120
- Ø 23 mm / M10	1760123
- Ø 26 mm / M12	1760126
- Ø 32 mm / M16	1760132
- Ø 38 mm / M20	1760138
- Ø 45 mm / M22	1760145
Customised heating coil (L=750mm, Ø=4mm)	1760201
Winding cord (flexible heating coil) (L = 800 mm)	1760202
Flat spiral coil (PAD coil)	1760203
Customised heating coil (L=750mm, Ø=4mm)	1760204
Flexible ceramic heating coil L = 800 mm	1760205

Technical data		IHG 1500
Article number		1750000
Protection	A	16
Protection class		IP 21 S
Cable length	mm	700
Output power ~50 Hz	kVA	1.5 / 230
Dimensions (L x W x H) approx.	mm	200 x 75 x 140
Weight approx.	kg	4.5

# IHG 3500 - Induction heater for heating and loosening stuck and rusted parts



- ▶ Powerful and easy to use
- ▶ Control with up to ten parameters, e.g. setting the maximum temperature or duration of the heating process
- ▶ High repeatability by setting the desired parameters
- ▶ Inexpensive, safe and clean alternative to heating with a burner
- ▶ Interchangeable attachments for numerous applications
- ▶ Loosening smaller panelling parts, stuck and rusted parts such as bolts, nuts, screws, bearings, gear wheels or similar

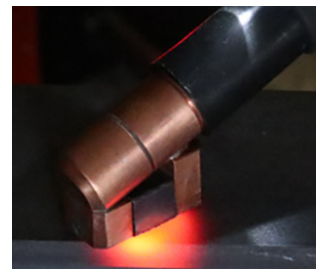
- ▶ Localised heating of parts for soldering, pressing, bending or gluing
- ▶ Melting of materials with a low melting point
- ▶ Integrated water cooling, thanks to easy to fill thanks to water level indicator
- ▶ Simple software updates via USB connection
- ▶ Easy to transport thanks to its compact design and low weight



› Heating a nut with the focus coil at an angle



› Heating a threaded bolt with the water-cooled coil



› Heating a component with the focus coil at an angle

- › Easy handling with high repeatability
- › Quick loosening of screws and nuts
- › Heating parts for pressing, bending or gluing



**Convince yourself of our efficiency and ask for an individual consultation!**  
**Contact: +49 (0) 951 96 555-506**  
**beratung@schweisskraft.de**

**Scope of delivery:**  
 Handle for coil with 2 m cable  
 Lateral focus coil  
 Cooling circuit filling 2.5 litres

Technical data		IHG 3500
Article number		1750005
Induction power	kW	3.5
Output frequency	kHz	18 – 60
Protection class		IP 22
Coolant volume	l	2.5
Protection	A	16
Power consumption ~50 Hz	kVA	3.5 / 230
Dimensions (L x W x H) approx.	mm	440 x 240 x 200
Weight approx.	kg	13.5
Weight of the device	kg	9

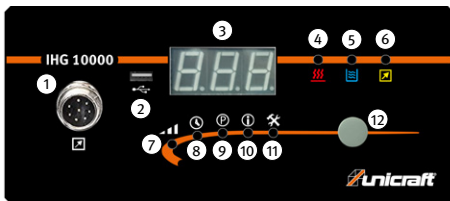


Accessories	Article no.
Handle extension	1760200
Customised heating coil (L=750mm, Ø=4mm)	1760201
Lateral focus coil (1)	1760202
Straight focus coil	1760203
Adapter for water-cooled coils	1760204
Water-cooled coil Ø20 mm	1760205
Water-cooled coil Ø25 mm	1760206
Coolant 3l canister	1760207
Remote control/foot pedal	1760208

(1) included in the scope of delivery

## IHG - Powerful, mobile induction heaters with chassis

- ▶ Ideal for every workshop - for use in the automotive, railway and aviation industries, shipbuilding and industry in general, metalworking, maintenance, welding, repair workshops
- ▶ For heating before hardening, straightening, bending or forging pipes, round steel and profiles
- ▶ Localised heating of parts for soldering, pressing, bending and gluing
- ▶ Loosening smaller panelling parts and stuck and rusted parts such as bolts, nuts, screws, bearings, gears or similar
- ▶ Mobile device with chassis and integrated water cooling
- ▶ Inexpensive, safe and clean alternative to heating with a burner
- ▶ Power 12 kVA - high load factor
- ▶ Very quiet operation
- ▶ Flexible and simple operation
- ▶ Water-cooled induction coils
- ▶ Infinitely variable power control from 10 to 100 per cent
- ▶ Timer for high repeatability
- ▶ Clear display for showing and setting the parameters
- ▶ Operating modes constant power CP and constant magnetic field CF selectable



### IHG 10000

- 1) Remote control connection (not available)
- 2) USB connection
- 3) Display
- 4) Heating indicator
- 5) Cooling and overheating indicator
- 6) Remote display (function not available)
- 7) Regulation display
- 8) Timer display
- 9) Programme display
- 10) Info display
- 11) Settings
- 12) Encoder



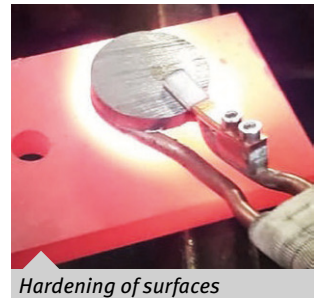
IHG 10000



IHG 13000



Preheating before welding



Hardening of surfaces

### Scope of delivery IHG 10000:

Handle for coil with 4 m cable  
Round focus coil, 32 mm  
Cooling circuit filling 10 litres

### Scope of delivery IHG 13000:

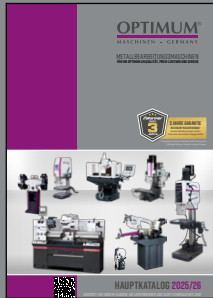
Rectangular focus coil

Technical data		IHG 10000	IHG 13000
Article number		1751000	1751005
Induction power	kW	10	13
Output frequency	kHz	18 - 45	18 - 35
Protection class		IP 21	IP 21
Coolant volume	l	10	17.5
Power consumption ~50 Hz	kVA	12 / 400	19 / 400
Dimensions (L x W x H) approx.	mm	400 x 760 x 700	850 x 540 x 960
Weight approx.	kg	58	96

### Accessories IHG 10000

Accessories IHG 10000	Art. no.
Ring coil	
- Ø22 mm with one winding	1761050
- Ø28 mm with one winding	1761051
- Ø34 mm with one winding	1761052
- Ø40 mm with one winding	1761053
- Ø47 mm with one winding	1761054
- Ø57 mm with one winding	1761055
Ring coil Ø22 mm with two windings	1761070
Round focus coil, 32 mm	1761010
Round frontal focus coil, 32 mm	1761015
U-profile coil, 14 mm	1761080
Replacement ferrite core	1761085
Coolant 10 litre canister	1761090
Remote control/foot pedal	1761101
<b>Accessories IHG 13000</b>	<b>Art. no.</b>
Rectangular focus coil	1761110
Round focus coil	1761111
Coolant 10 litre canister	1761090

YOU CAN FIND MORE PRODUCTS IN OUR MAIN CATALOGUES



[optimum-maschinen.de](http://optimum-maschinen.de)



[holzkraft.de](http://holzkraft.de)



[metallkraft.de](http://metallkraft.de)



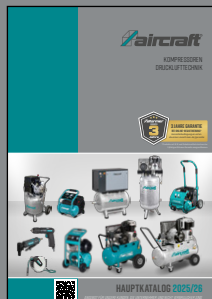
[holzstar.de](http://holzstar.de)



[cleancraft.de](http://cleancraft.de)



[unicraft.de](http://unicraft.de)

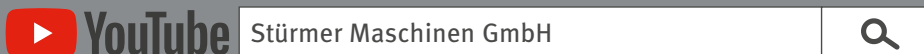


[aircraft-kompressoren.de](http://aircraft-kompressoren.de)



[finikompressoren.de](http://finikompressoren.de)

DISCOVER OUR PRODUCT VIDEOS NOW!



Do you already know our YouTube channel **Stürmer Maschinen GmbH**?

Here you will find a wide-ranging and high-quality selection of product videos, sorted by brand. We always aim to provide you with a wide selection of high-quality videos.

Subscribe to our YouTube channel so you don't miss any of our new videos: [www.stma.de/youtube-de](http://www.stma.de/youtube-de)

Your specialised dealer:



**Distribution Germany:**

Schweisskraft - Stürmer Maschinen GmbH  
Dr.-Robert-Pfleger-Str. 26  
96103 Hallstadt / Germany

Phone: +49 (0) 9 51 - 96 555 - 0  
email: [info@schweisskraft.de](mailto:info@schweisskraft.de)



[www.schweisskraft.de](http://www.schweisskraft.de)

**Distribution Austria:**

Aircraft Kompressorenbau GmbH  
Gewerbestraße Ost 6  
4921 Hohenzell / Austria  
+43 (0) 77 52 - 70 929 - 0  
[info@aircraft.at](mailto:info@aircraft.at)  
[www.aircraft.at](http://www.aircraft.at)

- This offer is aimed exclusively at entrepreneurs, dealers or traders who are acting in the exercise of their commercial or self-employed activity when concluding this purchase
- This constitutes an express **CONDITION FOR THE CONCLUSION OF THE CONTRACT**. Consumers within the meaning of § 13 BGB are excluded from the sale
- With the publication of this price catalogue, all previous lists become invalid
- Prices are non-binding recommended prices, subject to change, in €, plus the applicable statutory VAT, plus packaging, shipping, transport, unloading, assembly and, if applicable, instruction costs.
- No liability is accepted for printing errors, mistakes or incorrect presentation.
- We reserve the right to make technical and visual changes
- Fig. partly with optional accessories
- Delivery shall be made exclusively in accordance with our terms of delivery and payment
- Sold through specialised dealers
- The goods remain our property until full payment has been made
- In the event of resale to third parties, our retention of title shall remain in force
- Reproduction and reprinting in any way, even in extracts, always require our written authorisation
- For products with a recognised guarantee: Further information on the scope, duration and content of the guarantee, as well as details of the guarantor, can be found at [www.stuermer-maschinen.de](http://www.stuermer-maschinen.de) or by contacting Stürmer Maschinen GmbH directly.
- Please note that some of the machines in this brochure are subject to transport packaging flat rates for transport units or packaging and packaging costs. These have been marked accordingly in the catalogue.
- The entire catalogue is protected by copyright. In addition, we register trade mark, patent and design rights to protect our products, insofar as this is possible in individual cases. We strongly oppose any infringement of our intellectual property.