

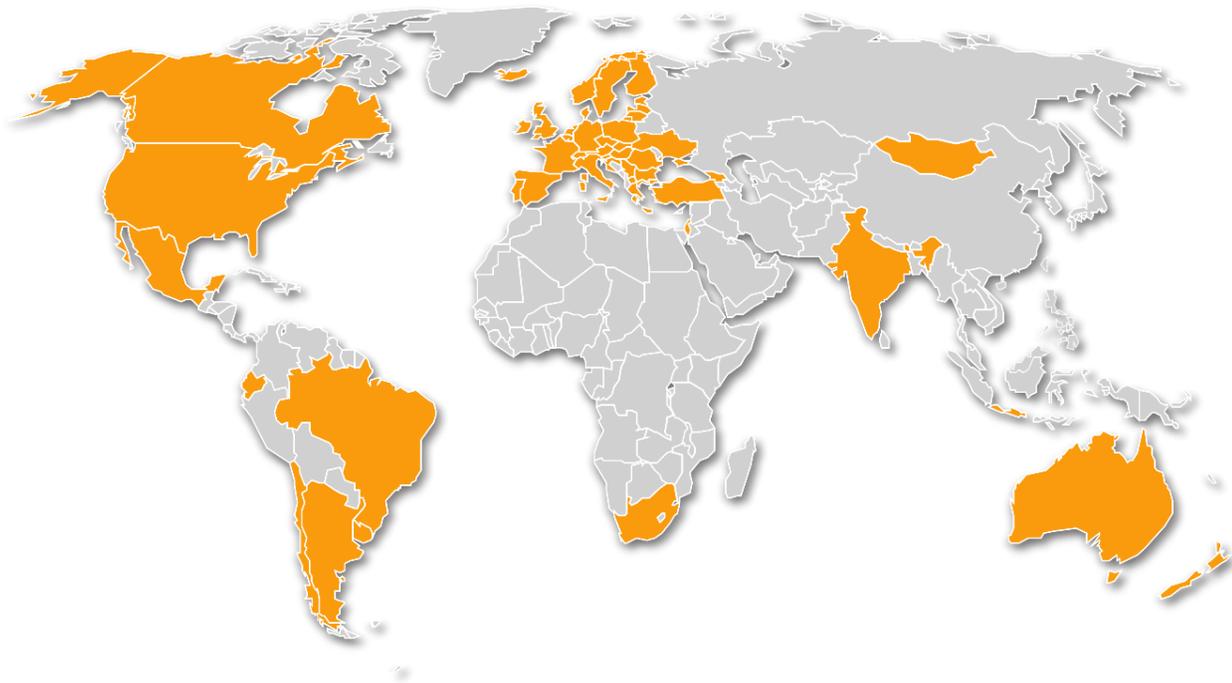


MOBILE INDUCTION AND RESISTANCE HEATERS

We are a technology company focused on the development and manufacture of mobile induction and resistance heating systems. Our solutions increase the efficiency of industrial processes, improve workplace safety, help reduce costs, and are environmentally friendly.

2012 company established	75 000+ devices sold	45+ export destinations
Our own development We develop cutting edge innovative products.	100% Czech manufacture Our products are manufactured in the Czech Republic.	Customer support We provide expert consulting, training, and service.

EXPORT



OUR VALUES

Innovation We are constantly looking for new ways and respond to customer needs.	Quality and safety We emphasize precise workmanship, ease of use, and safety for users.	Responsibility The production and use of our heaters creates only a low emission footprint.
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DAWELL technology
efficient, economical and safe way of flameless heating.



SERVICE, MAINTENANCE

INDUSTRY, AUTOMATION

WELDING MARKET, STRAIGHTENING

PREHEATING, ANNEALING

BRAZING

TOOL CLAMPING

230 V

NEW DCI-13 *Coming soon*

Bestseller DHI-15

NEW DHI-16, DHI-20, DHI-30 *Coming soon*

DHI-44E

DHI-121E

3 x 400 V

NEW DHI-160E

DHI-190E

economical solution
good price-performance ratio

230 V

Bestseller DHI-45C

DHI-121C HD

NEW DHI-161C HD

NEW DHI-191C HD

wide range of accessories
wide range of applications
quick inductor replacement
high load capacity
high performance

3 x 400 V

230 V

DHI-45F

DHI-121F

DHI-120F HD

NEW DHI-160F HD

Bestseller DHI-190F HD

optimized for straightening
special function for straightening
lightweight ergonomic handle
high load capacity
high performance

3 x 400 V

3 x 400 V

DHC 6510R

inverter resistance heating
controlled preheating & annealing

230 V

NEW DHI-48B

mobile soldering machine
wide range of accessories
quick inductor replacement

230 V

NEW DTI-16 easyCLAMP *Coming soon*

quick thermal clamping
compact dimensions

USE OF DAWELL HEATERS IN VARIOUS AREAS

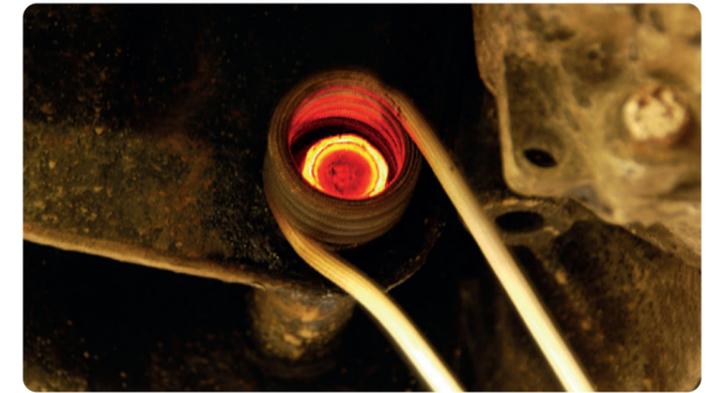
	Service and maintenance	Heating of bolts, car bodies, bearings and their mountings, rods, frames, profiles, shafts, valve seats...
	Industry	Heating of parts of various shapes, sizes, and diameters, heating to a precisely specified temperature...
	Welding market	Straightening of structures and profiles, heat treatment, heating before forming, preheating...
	Brazing	Brazing and soldering of copper tubes, cables, brass parts, tools...
	Automation	Industrial use with connectivity for automation, cobots, robotic workplaces...
	Tools	Heating of sleeves for tool replacement, carbide soldering, hardening...
	Others	Heating of tools and sleeves, annealing, hardening, forging, melting...



Induction heating in vehicle repair and maintenance

Loosening rusted bolts and nuts, glued and sealed joints

Quick heating of bolts, nuts, and other metal joints without the need to dismantle surrounding parts or risk damaging them. Can also be used when dismantling windshields, upholstery, or plastic covers glued to a metal chassis.



Maintenance of trucks, agricultural machinery, and accessories

Suitable for straightening the chassis of heavy vehicles, semi-trailers, and other equipment, for straightening shafts, preheating axles, pins, arms, etc.



Disassembly of bearings, bushings, valve seats, and pressed parts

Heating causes metal components to expand slightly, making them easier to remove. This method minimizes the need for mechanical force and reduces the risk of damage to parts.



Heating of exhaust pipes, lambda probes, and catalytic converters

High heating precision allows for safe heating of components even in close proximity to wiring, plastics, or sensitive sensors.



An effective solution for modern workshops

Induction heating is a modern and effective way to heat metal components without the need for an open flame. Thanks to its speed, safety, and precision, it is becoming an increasingly popular choice in professional auto repair shops and service centers. Whether it's loosening rusted joints, shaping sheet metal, or heating parts before disassembly, induction offers a fast and gentle solution without the risk of fire.



Speed

Induction heats metal almost instantly – within seconds. This significantly reduces working time and increases productivity.



Precision

Energy is directed only to the desired part. There is no heating of surrounding parts, which minimizes the risk of damage to plastics, wiring, or painted surfaces.



Safety

Heating takes place without an open flame, which reduces the risk of fire or burns. This makes work safer for mechanics and surrounding equipment.



Easy operation

Modern induction devices are compact and easy to use. They are also ideal for smaller workshops where flexibility and quick deployment are required.



Quick help for the workshop



NEW
DCI-13
[100-001-01]
Set of inductors
Plastic case

DHI-15
[05-300]
Set of inductors
Plastic case

NEW
DHI-16
DHI-20
DHI-30
(coming soon)

The DCI-13, DHI-15, DHI-16, DHI-20, and DHI-30 induction heaters are mobile, easy-to-use devices designed specifically for auto repair shops, maintenance, and other repair operations. They replace traditional open flame heating and enable fast, accurate, and safe heating of metal parts such as bolts, nuts, bearings, exhaust pipes, or body parts.

These devices significantly increase work efficiency, minimize the risk of damage to surrounding plastic, painted, or upholstered parts, and require no manipulation with pressure cylinders.

Air-cooled inductors
minimal maintenance, affordable spare parts

Low weight and compact dimensions
easy handling even in confined spaces

Applicator with lighting
for working in poor lighting conditions

Plug & Play
Ready for immediate use with a practical set of inductors

Protection and safety
Overheating, overload and short circuit protection, double click

A wide range of accessories
for a variety of applications

[type]	[V]	[A]	[kW]	[kHz]	[IP CLASS]	[m]	[m]	[kg]	[mm]
DCI-13	230	8	1.2	20-60	20	3	-	2	340×60×80
DHI-15	230	8	1.5	20-60	20	3	0.7	4.5	200×140×75
DHI-16*	230	8	1.6	30-60	20	2	1	4	240×160×100
DHI-20*	230	10	2	30-60	20	2	1	4.1	240×160×100
DHI-30*	230	15	3	30-60	20	2	1	4.2	240×160×100

* Preliminary parameters.

Complete machine sets with accessories

Basic set for DCI-13

- front inductor ø 19 mm
- front inductor ø 26 mm
- inductor PAD
- inductor FLEXI

Extended set for DCI-13

machine + set of front inductors EASY + PAD + FLEXI

Basic set for DHI-15

- front inductor ø 19 mm
- front inductor ø 26 mm
- inductor PAD
- inductor FLEXI

Extended set for DHI-15

machine + set of front inductors MAX

Most used inductors for DCI-13 / DHI-15

white [80-202-01] PAD removal

white [80-203-01] PAD finish

white [80-204-01] PAD radius

white [80-251-01] Focusing
Note: only for DHI-15.

white [80-171-01] Set of front inductors EASY

- front ø 15 mm
- front ø 19 mm
- front ø 20 mm
- front ø 23 mm
- front ø 26 mm
- front ø 32 mm
- front ø 38 mm
- front ø 45 mm

[80-257-01] FLEXI ceramic

white [80-253-01] FLEXI

white [80-121-01] WIRE
For winding your own inductor.

white [80-172-01] Set of side inductors EASY

- side ø 15 mm
- side ø 19 mm
- side ø 20 mm
- side ø 23 mm
- side ø 26 mm
- side ø 32 mm
- side ø 38 mm
- side ø 45 mm

ø 15 mm [80-101-01]

ø 19 mm [80-102-01]

ø 20 mm [80-103-01]

ø 23 mm [80-104-01]

ø 26 mm [80-105-01]

ø 32 mm [80-106-01]

ø 38 mm [80-107-01]

ø 45 mm [80-108-01]

Circular front, length 220 mm

ø 15 mm [80-151-01]

ø 19 mm [80-152-01]

ø 20 mm [80-153-01]

ø 23 mm [80-154-01]

ø 26 mm [80-155-01]

ø 32 mm [80-156-01]

ø 38 mm [80-157-01]

ø 45 mm [80-158-01]

Circular side, length 220 mm

front [80-187-01] side [80-188-01] Set of side inductors MAX

- front/side ø 20 mm
- front/side ø 23 mm
- front/side ø 26 mm
- front/side ø 32 mm
- front/side ø 38 mm
- front/side ø 45 mm
- ceramic FLEXI
- PAD radius and PAD removal
- focusing + replacement ferrite

Note: Inductors with black insulation can be ordered (order numbers available on request).



Power for major repairs



DHI-44E
(07-003-01)
Side focusing inductor (07-103)

DHI-121E
(09-010)
Circular focusing inductor ø 32 mm (84-023-01)

NEW
DHI-160E
(12-020)
Rectangular focusing inductor 33x52 mm (12-101-01)

DHI-190E
(12-005)
Rectangular focusing inductor 33x52 mm (12-101-01)

The DHI-44E, DHI-121E, DHI-160E, and DHI-190E series offer powerful mobile induction heaters designed for demanding repairs in workshops, car repair shops, and industry. Thanks to liquid-cooled inductors, high power, and user-friendly controls, they can handle even more extensive applications in passenger cars, trucks, agricultural machinery, and other heavy equipment.

<p>Liquid-cooled inductors for long-term, stable performance</p>	<p>High versatility thanks to interchangeable focusing and circular inductors</p>	<p>Optimized for repairs and maintenance from car repair shops to heavy industry</p>
<p>Smooth power control (20-100%) and timer setting option</p>	<p>Easy handling low weight, mobile design with handle or wheels</p>	<p>Display with parameter overview LED lighting and USB for updates.</p>

[type]	[V]	[A]	[kW]	[kHz]	[IP CLASS]	[m]	[m]	[kg]	[mm]
DHI-44E	230	16	3.7	18-60	22	3	2	11.5	240x200x440
DHI-121E	3x400	3x16	11	18-35	21	5	4	58	540x810x710
DHI-160E	3x400	3x25	16	18-35	21	5	6/10	96	540x960x850
DHI-190E	3x400	3x32	19	18-35	21	5	6/10	96	540x960x850

Most used inductors for DHI-44E

 (07-102) Skew focusing	 (07-103) Side focusing	 (07-110) Circular focusing with reduction	 (07-101) Applicator extension	 (07-105) Reducer for circular inductors	 Circular 1 threaded for reduction
 (07-104) Straight focusing	 (07-108) Car Nut			Note: inductor not included.	ø 20 mm (81-001-01) ø 26 mm (81-002-01) ø 32 mm (81-003-01) ø 38 mm (81-004-01) ø 40 mm (81-006-01) ø 45 mm (81-005-01) ø 53 mm (81-009-01)

Most used inductors for DHI-121E

 Replacement ferrites ø 25 mm (84-154-01) ø 32 mm (84-153-01) ø 38 mm (12-202-01) ø 25 mm (84-024-01) ø 32 mm (84-023-01) ø 38 mm (84-021-01) Circular focusing	 Replacement ferrite (12-201-01) 33x52 mm (84-020-01) Rectangular focusing	 ø 21 mm (84-011-01) ø 50 mm (84-012-01) ø 24 mm (84-011-02) ø 55 mm (84-012-02) ø 27 mm (84-011-03) ø 60 mm (84-012-03) ø 31 mm (84-011-04) ø 65 mm (84-012-04) ø 35 mm (84-011-05) ø 70 mm (84-012-05) ø 38 mm (84-011-06) ø 75 mm (84-012-06) ø 42 mm (84-011-07) ø 80 mm (84-012-07) ø 45 mm (84-011-08) ø 85 mm (84-012-08) Circular 1 threaded	 ø 21 mm (84-014-01) ø 24 mm (84-014-02) ø 27 mm (84-014-03) ø 31 mm (84-014-04) Circular 2 threaded
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Most used inductors for DHI-160E / DHI-190E

 33 x 52 mm (12-101-01) Rectangular focusing	 straight (12-102-01) front (12-190-01) Circular focusing ø 38 mm	 ø 50 mm (12-103-01) ø 55 mm (12-104-01) ø 60 mm (12-105-01) ø 65 mm (12-106-01) ø 70 mm (12-107-01) ø 75 mm (12-108-01) Circular 1 threaded	 ø 24 mm (12-130-01) ø 27 mm (12-131-01) ø 31 mm (12-132-01) ø 35 mm (12-133-01) Circular 2 threaded
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Note: complete range of inductors available on request.

Other accessories

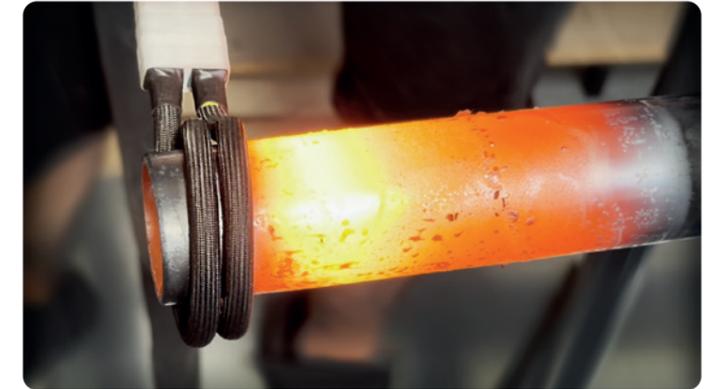
 DHI-44E (09-203-02) DHI-1xx (12-200-01) Remote control - pedal	 3 l (91-006) 10 l (09-210) Coolant	 Heat-resistant paint for repairing damaged inductor coating. Volume: 40 ml. (09-211-01) Repair kit - paint	 Two-component adhesive for bonding ferrite cores to inductors. (09-212-01) Repair kit - glue	 (07-400-01) Trolley for heaters DHI-4
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Induction heating in engineering

Heating for annealing and hardening

Induction heating enables the desired temperature for heat treatment of metals to be reached quickly and evenly. Thanks to precise temperature control and localised action, it is ideal for targeted annealing or hardening of specific parts without affecting the rest of the material.



Heating components in production lines

Loosening or disassembly broken screws and pins in steel blocks in industry

Quick local heating causes different thermal expansion, thereby facilitating loosening without drilling.



Flexible heating for production, assembly, maintenance

Induction heating is used in industry wherever precise, fast, targeted and safe heating of metal components is required without wasting time and energy. Industrial applications often require flexibility – the ability to easily adapt heating to different shapes and sizes of parts. Thanks to easily and quickly replaceable inductors, induction heating can be adapted to a specific task in a very short time. For users, this means the possibility of using one device for multiple activities within production, maintenance, or assembly.



Fast and targeted heating without a flame

Heat is generated directly in the material, precisely where it is needed, without unnecessary heating of the surrounding area.



Replaceable inductors of various shapes

Quickly replaceable inductors allow adaptation to different parts – from pipes to bearing seats.



Energy and operating cost savings

Induction heating is energy efficient and reduces energy costs, consumables, and working time.

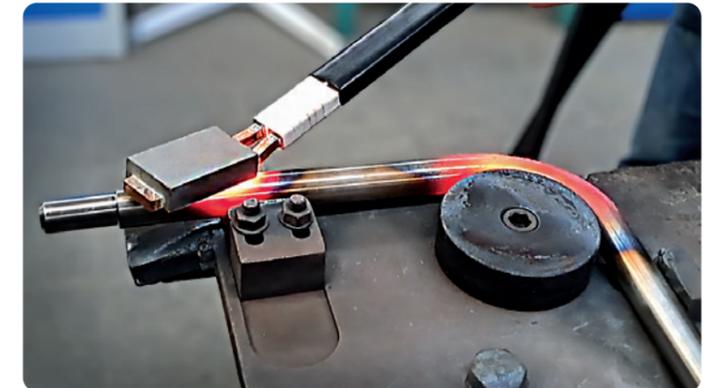


Mobility and flexibility of use

The device can be easily moved and used at different workplaces without the need for special installations.

Metal forming

Local heating for controlled bending or shaping of sheet metal, bar, and tube parts without deforming the surrounding area. Can also be used for heating material during the forging of small to medium-sized metal parts where precise temperature and a fast work cycle are required.



Assembly using thermal expansion

Induction heating enables rapid and controlled heating of shafts, sleeves, and other machine components to expand them and facilitate their installation even within narrow assembly tolerances. This process ensures precise connection of parts without mechanical force and with minimal risk of damage.





Induction handymen



DHI-45C
(07-012-01)
Inductor „U“ 17 mm
(82-007-01)

DHI-121C HD
(09-012)
Circular focusing inductor ø 32 mm
(84-023-01)

NEW
DHI-161C HD
(12-021)
Rectangular focusing inductor 33x52 mm
(12-101-01)

NEW
DHI-191C HD
(12-003)
Rectangular focusing inductor 33x52 mm
(84-020-01)

The DHI-45C, DHI-121C HD, DHI-161C HD, and DHI-191C HD series of induction heaters are versatile, liquid-cooled machines designed for a wide range of applications in the heating of conductive and ferromagnetic materials.

Their advantage is an applicator with quick inductor replacement, which allows for easy switching between different activities and maximum utilization of the variability of induction heating. The HD version is equipped with a powerful pump and cooling system for continuous operation.

High load capacity
for HD versions

Quick installation of inductors without tools
for frequent replacements

Custom inductors
high variability of customer inductors

Liquid-cooled inductors
for long-term and stable performance

Industrial connection
using the Modbus communication protocol

Clear display
LED lighting, firmware updates

[type]	[V]	[A]	[kW]	[kHz]	[IP CLASS]	[m]	[m]	[kg]	[mm]
DHI-45C	230	16	3.7	18-60	22	3	2	13.5	240x200x440
DHI-121C HD	3x400	3x16	11	18-35	21	5	4/6/8/10	61	540x810x710
DHI-161C HD	3x400	3x25	16	18-35	21	5	6/10	96	540x960x850
DHI-191C HD	3x400	3x32	19	18-35	21	5	6/10	96	540x960x850

Most used inductors for DHI-45C

Replacement ferrite
ø 32 mm (09-200-01)

ø 32 mm (09-136-01)
Circular focusing straight

ø 32 mm (09-117-01)
Circular focusing front

ø 20 mm (82-025-01)
ø 35 mm (82-024-01)
ø 42 mm (82-016-01)
ø 46 mm (82-015-01)
ø 50 mm (82-010-01)
ø 55 mm (82-026-01)
Circular 1 threaded

ø 14 mm (82-014-01)
ø 22 mm (82-012-01)
ø 26 mm (82-008-01)
Circular 2 threaded

(82-007-01)
Profile „U“ 17 mm

Most used inductors for DHI-121C HD / DHI-161C HD / DHI-191C HD

Replacement ferrites
ø 25 mm (84-154-01)
ø 32 mm (84-153-01)
ø 38 mm (12-202-01)

ø 25 mm (84-024-01)
ø 32 mm (84-023-01)
ø 38 mm (84-021-01)

Circular focusing

* only for DHI-121C HD
ø 21 mm (84-014-01)
ø 24 mm (84-014-02)
ø 27 mm (84-014-03)
ø 31 mm (84-014-04)
ø 35 mm (84-014-05)
ø 38 mm (84-014-06)*

Circular 2 threaded

ø 21 mm (84-016-01)
ø 24 mm (84-016-02)
ø 27 mm (84-016-03)

Circular 3 threaded

ø 21 mm (84-017-05)
ø 24 mm (84-017-06)
ø 27 mm (84-018-01)

„U“ 2 threaded

Replacement ferrite
(12-201-01)

33x52 mm (84-020-01)
Rectangular focusing

* only for DHI-121C HD
ø 21 mm (84-011-01) ø 45 mm (84-011-08) ø 80 mm (84-012-07)
ø 24 mm (84-011-02) ø 50 mm (84-012-01) ø 85 mm (84-012-08)*
ø 27 mm (84-011-03) ø 55 mm (84-012-02) ø 90 mm (84-012-09)*
ø 31 mm (84-011-04) ø 60 mm (84-012-03) ø 95 mm (84-012-10)*
ø 35 mm (84-011-05) ø 65 mm (84-012-04) ø 100 mm (84-012-11)*
ø 38 mm (84-011-06) ø 70 mm (84-012-05) ø 110 mm (84-012-12)*
ø 42 mm (84-011-07) ø 75 mm (84-012-06)

Circular 1 threaded

Note: Complete range of inductors available on request.

Other accessories

DHI-45C (09-203-02)
DHI-1xx (12-200-01)
Remote control - pedal

3 l (91-006)
10 l (09-210)
Coolant

Heat-resistant paint for repairing damaged inductor coating.
Volume: 40 ml
(09-211-01)
Repair kit - paint

Two-component adhesive for bonding ferrite cores to inductors.
(09-212-01)
Repair kit - glue

(07-400-01)
Trolley for heaters DHI-4



Induction straightening in welding shops



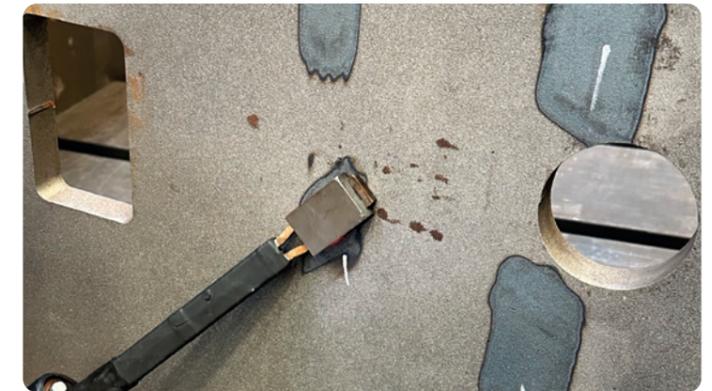
Straightening welded frames and structural components

Quick and targeted heating allows for the correction of deformations without the need for reworking or mechanical force.



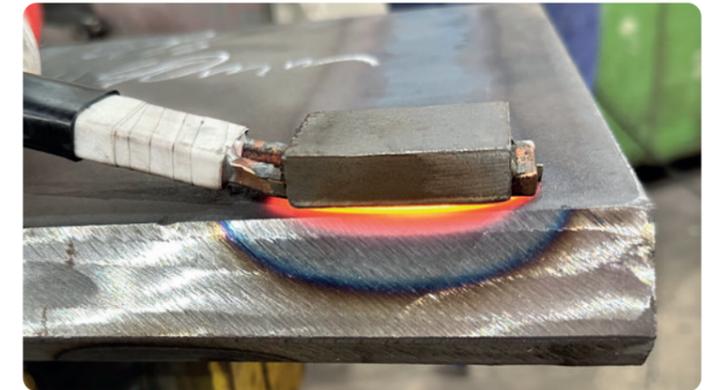
Removing deformations on covers, panels, and sheets

Local heating with precise temperature control minimizes the risk of further warping or surface damage.



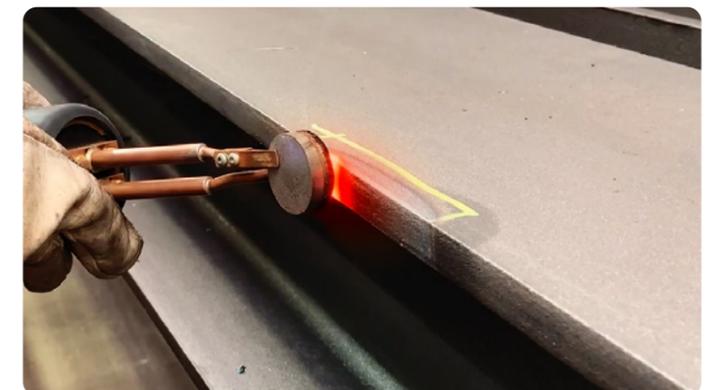
Correction of bent profiles after welding

Induction allows the original shape to be restored without dismantling the part and without disturbing the surrounding welds.



Precise alignment of assemblies

Ideal for finalizing parts directly on the assembly surface, without the need to move them to a specialized workplace.



Quick correction of deformations after welding

When welding steel and metal parts, unwanted deformations occur due to thermal stress. In workshop operations, it is crucial to remove these deformations quickly and efficiently in order to maintain manufacturing accuracy and high joint quality. Mobile induction heating offers a modern solution: targeted, safe, and fast heating of deformed areas without the use of open flames or mechanical force.



Local and precise heating

Induction acts directly on the deformed area without adversely affecting the surrounding material.



Time and labor savings

Compared to traditional mechanical straightening or flame heating, induction straightening is faster and requires less follow-up work.



Gentle on the material

Heating takes place without the risk of cracks, overheating, or structural changes to the material.



Increased work safety

Thanks to the absence of open flame, working with induction is safe. In addition, operating personnel do not need any special certification.

Specialists in induction straightening



DHI-45F
[07-002-01]
Side focusing inductor [07-103]

DHI-121F
[09-008]
Circular focusing inductor ø 32 mm [84-023-01]

DHI-120F HD
[09-013]
Circular focusing inductor ø 32 mm [09-136-01]

DHI-160F HD NEW
[12-022]
DHI-190F HD
[12-001]
Rectangular focusing inductor 33x52 mm [12-101-01]

The DHI-45F, DHI-120F HD, DHI-160F HD, and DHI-190F HD series of induction heaters are modern, liquid-cooled machines designed primarily for post-weld straightening.

Their main advantage is a lightweight applicator, which you will appreciate especially during prolonged use. Freedom of movement is ensured by an applicator cable up to 10 meters long for large machines. The HD variant is equipped with high-performance cooling, which allows for continuous operation of the device.

High load capacity
in HD design

Lightweight applicator
for longer work and movement around the straightened part

Four-stroke function*
for easy operation during long heating

Liquid-cooled inductors
for long-term and stable performance

Remote control option
using a connected pedal

Long applicator cable
freedom of movement when working on large structures

[type]	[V]	[A]	[kW]	[kHz]	[IP CLASS]	[m]	[m]	[kg]	[mm]
DHI-45F	230	16	3.7	18-60	22	3	2	12.5	240x200x440
DHI-121F	3x400	3x16	11	18-35	21	5	4	58	540x810x710
DHI-120F HD	3x400	3x16	11	18-35	21	5	4/6/8/10	68	540x810x710
DHI-160F HD	3x400	3x25	16	18-35	21	5	6/10	96	540x960x850
DHI-190F HD	3x400	3x32	19	18-35	21	5	6/10	96	540x960x850

* Available from Q4/2025 on DHI-120F HD / 160F HD / 190F HD machines and for selected inductors.

Most used inductors for DHI-45F

[07-102]
Skew focusing

[07-103]
Side focusing

[07-110]
Circular focusing with reduction

[07-101]
Applicator extension

[07-105]
Reducer for circular inductors
Note: inductor not included.

ø 20 mm [81-001-01]
ø 26 mm [81-002-01]
ø 32 mm [81-003-01]
ø 38 mm [81-004-01]
ø 40 mm [81-006-01]
ø 45 mm [81-005-01]
ø 53 mm [81-009-01]
Circular 1 threaded for reduction

[07-104]
Straight focusing

[07-108]
Car Nut

Most used inductors for DHI-121F

Replacement ferrites
ø 25 mm [84-154-01]
ø 32 mm [84-153-01]
ø 38 mm [12-202-01]
ø 25 mm [84-024-01]
ø 32 mm [84-023-01]
ø 38 mm [84-021-01]
Circular focusing

Replacement ferrite [12-201-01]
33x52 mm [84-020-01]
Rectangular focusing

ø 21 mm [84-011-01] ø 50 mm [84-012-01]
ø 24 mm [84-011-02] ø 55 mm [84-012-02]
ø 27 mm [84-011-03] ø 60 mm [84-012-03]
ø 31 mm [84-011-04] ø 65 mm [84-012-04]
ø 35 mm [84-011-05] ø 70 mm [84-012-05]
ø 38 mm [84-011-06] ø 75 mm [84-012-06]
ø 42 mm [84-011-07] ø 80 mm [84-012-07]
ø 45 mm [84-011-08] ø 85 mm [84-012-08]
Circular 1 threaded

ø 21 mm [84-014-01]
ø 24 mm [84-014-02]
ø 27 mm [84-014-03]
ø 31 mm [84-014-04]
Circular 2 threaded

Most used inductors for DHI-120F HD

32 mm [09-136-01]
Straight circular focusing

Replacement ferrite ø 32 mm [09-200-01]
32 mm [09-117-01]
Front circular focusing

ø 22 mm [09-103-01]
ø 28 mm [09-104-01]
ø 34 mm [09-105-01]
ø 40 mm [09-106-01]
ø 47 mm [09-107-01]
ø 57 mm [09-108-01]
ø 67 mm [09-109-01]
Circular 1 threaded

ø 22 mm [09-111-01]
ø 28 mm [09-112-01]
Circular 2 threaded

[09-115-01]
„U“ 14 mm

Most used inductors for DHI-160F HD / DHI-190F HD

33 x 52 mm [12-101-01]
Replacement ferrite 33x52 mm [12-201-01]
Rectangular focusing

straight [12-102-01] front [12-190-01]
Replacement ferrite ø 38 mm [12-202-01]
Circular focusing ø 38 mm

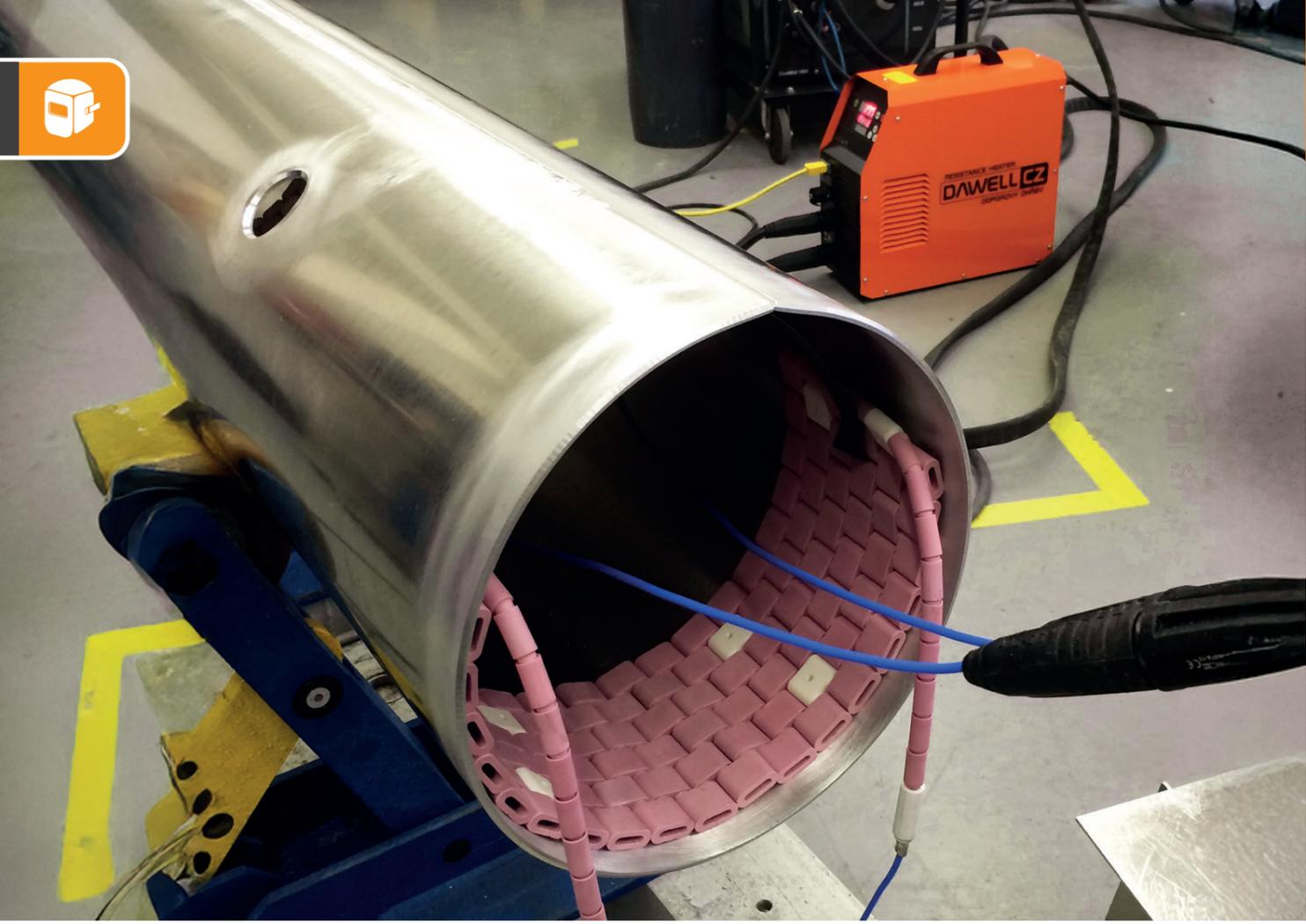
ø 50 mm [12-103-01]
ø 55 mm [12-104-01]
ø 60 mm [12-105-01]
ø 65 mm [12-106-01]
ø 70 mm [12-107-01]
ø 75 mm [12-108-01]
Circular 1 threaded

ø 24 mm [12-130-01]
ø 27 mm [12-131-01]
ø 31 mm [12-132-01]
ø 35 mm [12-133-01]
Circular 2 threaded

Note: Complete range of inductors available on request.



Resistance heater with temperature control



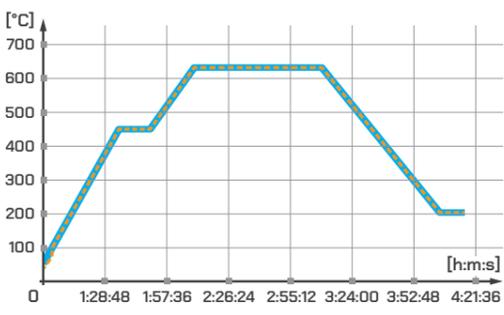
The DHC 6510R resistance heating device is a mobile inverter device designed primarily for the precise preheating of materials up to 1200 °C and for annealing materials after welding to reduce residual stress and ensure a high-quality weld. The machine is equipped with an advanced temperature controller and data recorder. It allows detailed programming of heating cycles – ideal especially for applications with high demands on accuracy and repeatability.



DHC 6510R
[04-004-01]
USB cable

Technical data	Description / values
Output voltage / current	0-60 V / 180 A, 65 V / 160 A continuously adjustable, CV/CC
Load	resistance heater elements 24-60 V (type 30 / 42 / 60 V)
Supply voltage/current	3~400 V, 50/60 Hz, 23 A ±15%
Supply fuse	25 A
Temperature sensor	thermocouple wire K, galvanized insulation
Range / regulation	from -25 to 1200 °C
Alarm	2 adjustable (deviation SV/PV, temperature achieved, etc.)
Fault detection	thermocouple disconnection, overload, overheating, output short circuit, etc.
Multi-zone control	yes, master / slave type, max. 9 units
Operating temperatures	from -20 to 40 °C (with a capacity limit to 50 °C)
Temperature profiles	20 adjustable profiles in 9 segments
Controller	digital, user-adjustable
Recorder	up to 1400 hours of recording, stores, and error conditions
Data downloading	using 485/USB to PC, direct import to Excel

Output from the built-in recorder



Mobile inverter for controlled preheating and annealing

Resistance heating is the ideal choice for applications requiring targeted, long-term, and precisely controlled heating of metal materials—typically for annealing welds, reducing stress after welding, or for preheating before welding. Unlike flame or induction, heating is carried out using heating coils or mats that are placed directly on the surface of the material. Thanks to the built-in temperature controller and thermocouples it is possible to precisely control the temperature profile and heating time and to record the entire process for further documentation.



Precise temperature and time control for repeatable processes.



Easy programming and working with measured data.



Wide range and variability of heating elements.



High mobility – weight only 17 kg.



3 in 1 – resistance heating, temperature controller, and measured data recorder.



Possibility to connect up to 9 machines with a total power of 95 kW to one application.

Extended set

- Inverter DHC 6510R
- Elements
- Insulation tygasil
- Splitting cable
- Extending cables
- Compensations cable
- Thermocouple wire

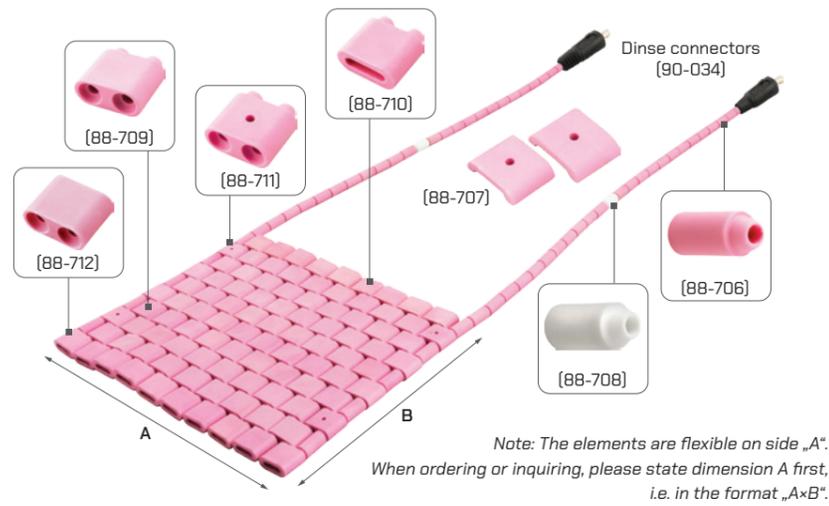
Values recorded in the recorder

SPTemp [°C]	Setting value – required temperature
PVTemp [°C]	Process Value – actual measured temperature
MV [%]	Manipulation Value – output power
Volt [V]	Measured output voltage
Curr [A]	Measured output current

Table of measured data exported to Excel

[type]	[V]	[A]	[kW]	[IP CLASS]	[m]	[kg]	[mm]
DHC 6510R	3x400	25	10.8	21	3	17	170x370x405

Elements for DHC 6510R



Note: The elements are flexible on side „A“. When ordering or inquiring, please state dimension A first, i.e. in the format „AxB“.

Ceramic elements 30 V

Order no.	No. of elements AxB	Dimensions AxB (mm)	Order no.	No. of elements AxB	Dimensions AxB (mm)
88-112	3x17	75x355	88-124	8x6	200x125
88-113	3x18	75x380	88-125	8x7	200x145
88-114	4x11	100x230	88-126	9x5	225x105
88-115	4x12	100x250	88-127	9x6	225x125
88-103	4x13	100x275	88-128	10x4	255x85
88-116	4x14	100x295	88-109	10x5	255x105
88-104	5x9	125x190	88-102	11x4	280x85
88-117	5x10	125x210	88-101	11x5	280x105
88-105	5x11	125x230	88-108	12x4	305x85
88-118	6x7	150x145	88-129	13x4	330x85
88-111	6x8	150x165	88-130	14x4	355x85
88-119	6x9	150x190	88-131	15x3	380x65
88-120	7x6	175x125	88-132	16x3	405x65
88-121	7x7	175x145	88-133	17x3	430x65
88-122	7x8	175x165	88-134	18x3	455x65
88-123	8x5	200x105	88-110	24x2	610x40

Ceramic elements 60 V

Order no.	No. of elements AxB	Dimensions AxB (mm)
88-033	3x32	75x670
88-034	3x33	75x690
88-035	3x34	75x710
88-036	4x24	100x505
88-026	4x25	100x525
88-037	4x26	100x545
88-018	5x18	125x380
88-022	5x20	125x420
88-031	5x21	125x440
88-005	5x22	125x460
88-038	6x16	150x335
88-039	6x17	150x355
88-006	6x18	150x380
88-014	7x14	175x295
88-040	7x15	175x315
88-041	8x12	200x250
88-042	8x13	200x275
88-043	9x11	225x230
88-044	9x12	225x250
88-015	10x10	255x210
88-045	10x11	255x230
88-046	11x9	280x190
88-047	11x10	280x210
88-030	12x8	305x165
88-007	12x9	305x190
88-016	13x7	330x145
88-048	13x8	330x165
88-023	14x7	355x145
88-049	15x6	380x125
88-019	15x7	380x145
88-008	16x6	405x125
88-050	17x5	430x105
88-001	17x6	430x125
88-051	18x5	455x105
88-013	18x6	455x125
88-017	19x5	480x105
88-003	20x5	510x105
88-052	21x4	535x85
88-058	21x5	535x105
88-055	22x5	560x105
88-059	23x4	585x85
88-053	24x4	610x85
88-032	25x4	635x85
88-024	26x4	665x85
88-056	27x4	690x85
88-002	28x3	715x65
88-060	29x3	735x65
88-012	31x3	785x65
88-057	32x3	815x65
88-021	48x2	1220x40



Ceramic element „Spreader mats“ 60 V



Ceramic element „Finger“ 60 V



Ceramic element „Snake“ 60 V

Note: Complete range of ceramic elements available on request.

Elements for DHC 6510R



Ceramic element FIP



Channel elements



Ceramic magnetic element



Preheating cassettes



Magnets for ceramic elements

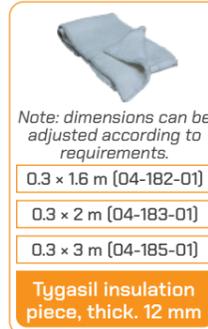


Element „ONE LINE“



Element „ONE LINE“ braided

Other accessories



Tygasil insulation piece, thick. 12 mm



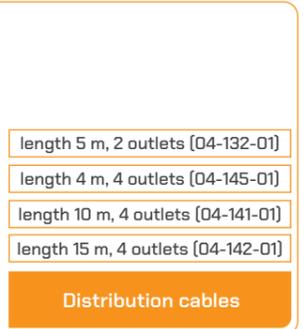
Tygasil insulation roll, thick. 12 mm



Insulation „Ceramic Fibre“



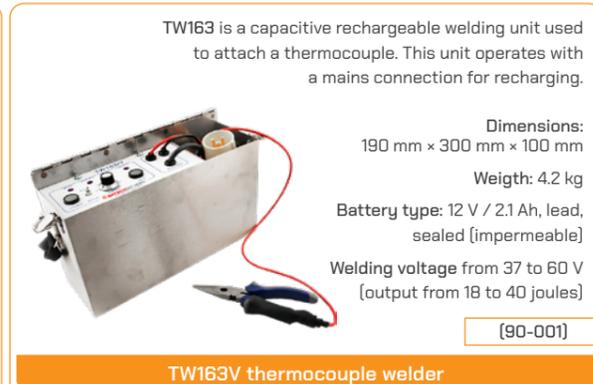
Double connecting cables



Distribution cables



Trolleys



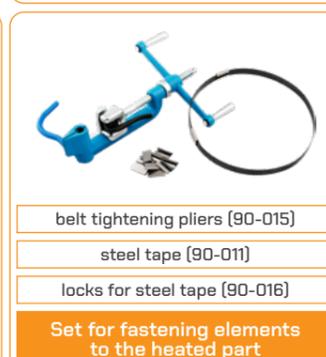
TW163V thermocouple welder



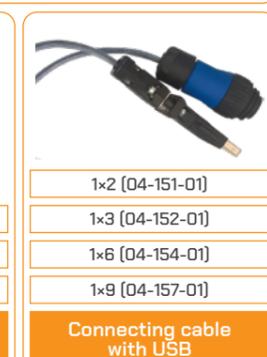
Thermocouple wires, by the meter



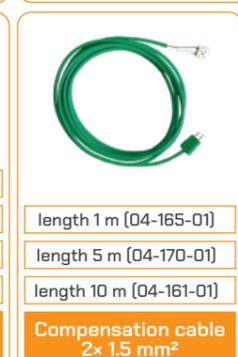
Resistance wire ceramic elements



Set for fastening elements to the heated part



Connecting cable with USB

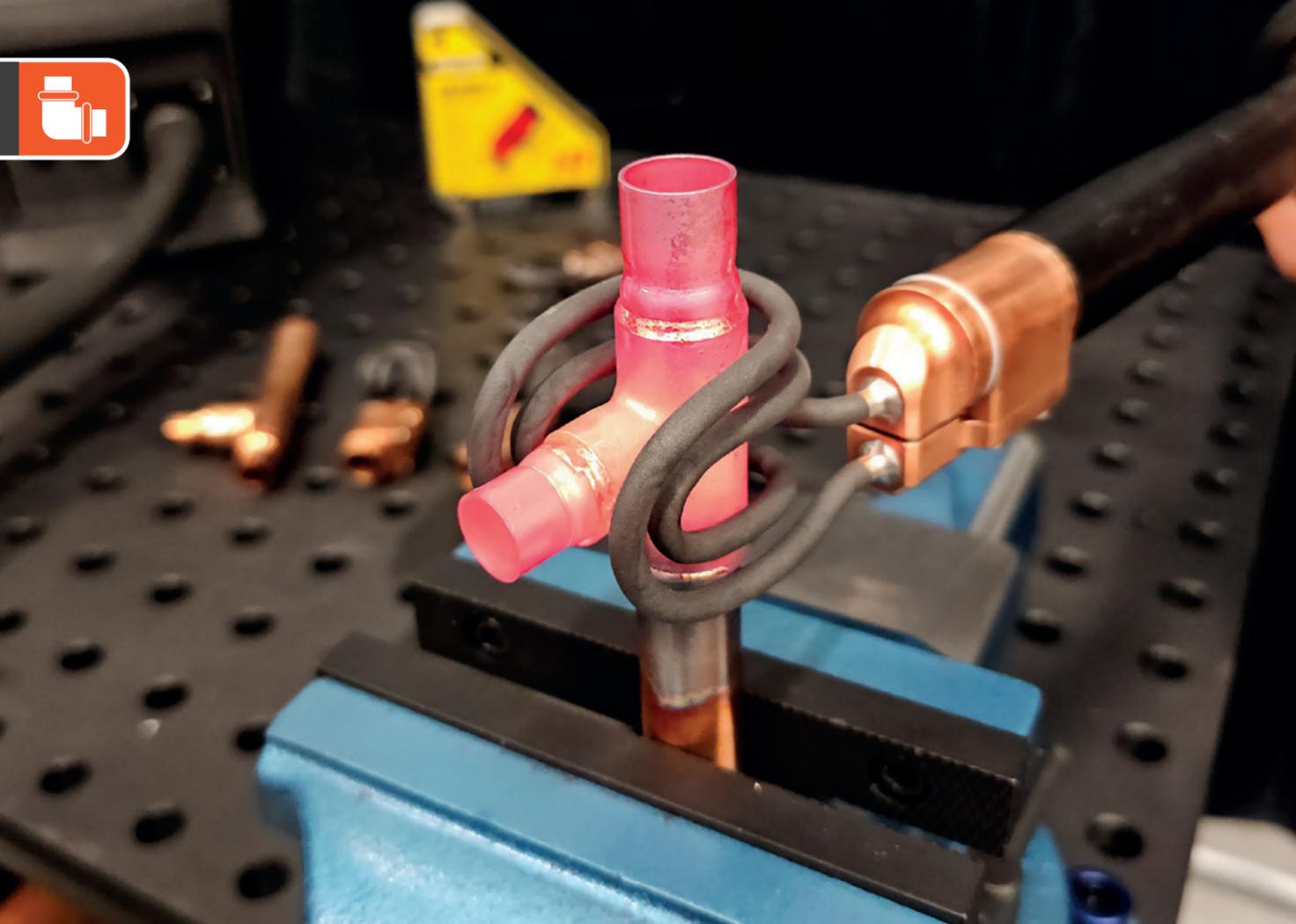


Compensation cable 2x 1.5 mm²



Thermocouple connectors

Note: Complete range of additional accessories available on request.



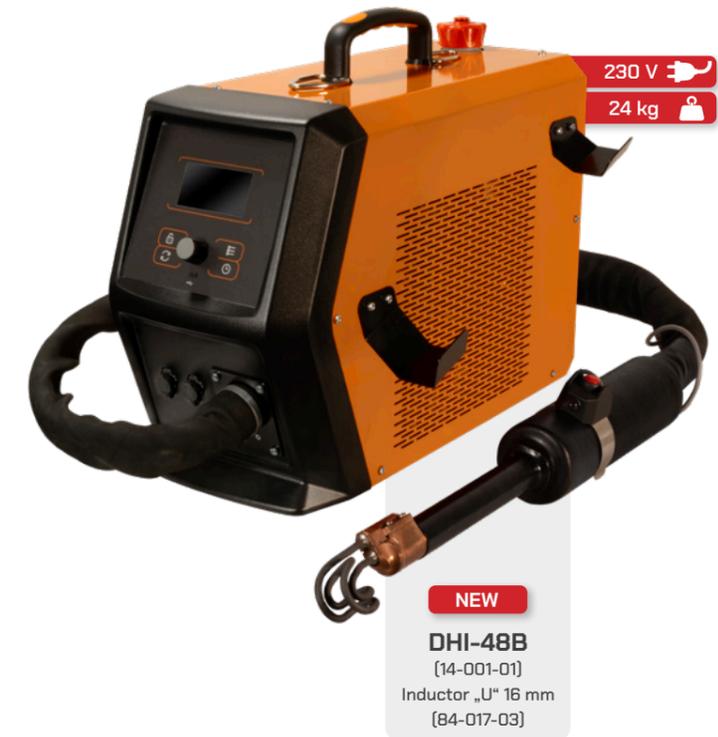
Induction brazing

Brazing genius

The **DHI-48B** induction heater has been specially designed for brazing and soldering. Its higher operating frequency is optimized for these purposes. Thanks to its 230 V power supply and compact dimensions, it is ideal for both production and mobile use directly at the customer's premises.

Precise adjustment of all parameters ensures high repeatability of the soldering process and also allows for use in production sites.

Optimized for heating copper, brass, and aluminum.



Mobile, fast, and safe brazing

Induction brazing is a modern method of joining metal materials by targeted heating to a given temperature at which the brazing material melts, but not the base material. Thanks to its speed, and contactless energy transfer, induction brazing is the ideal solution for industrial applications and demanding workshop work.

Most used inductors for DHI-48B

<ul style="list-style-type: none"> ∅ 12 mm [84-013-01] ∅ 14 mm [84-013-02] ∅ 16 mm [84-013-03] <p>Circular 2 threaded</p>	<ul style="list-style-type: none"> ∅ 12 mm [84-017-01] ∅ 14 mm [84-017-02] ∅ 16 mm [84-017-03] ∅ 18 mm [84-017-04] ∅ 21 mm [84-017-05] ∅ 24 mm [84-017-06] ∅ 27 mm [84-018-01] ∅ 31 mm [84-018-02] <p>„U“ 2 threaded</p>	<ul style="list-style-type: none"> ∅ 12 mm [84-010-01] ∅ 14 mm [84-010-02] ∅ 16 mm [84-010-03] ∅ 18 mm [84-010-04] ∅ 21 mm [84-011-01] ∅ 24 mm [84-011-02] ∅ 27 mm [84-011-03] ∅ 31 mm [84-011-04] ∅ 35 mm [84-011-05] ∅ 38 mm [84-011-06] ∅ 42 mm [84-011-07] ∅ 45 mm [84-011-08] <p>Circular 1 threaded</p>
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Other accessories

<p>Note: offer available upon request.</p> <p>Solder, soldering rings</p>	<p>DHI-4x [09-203-02]</p> <p>Remote control - pedal</p>	<p>3 l [91-006]</p> <p>10 l [09-210]</p> <p>Coolant</p>	<p>Heat-resistant paint for repairing damaged inductor coating. Volume: 40 ml.</p> <p>[09-211-01]</p> <p>Repair kit - paint</p>	<p>[07-400-01]</p> <p>Trolley for heaters DHI-4</p>
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High mobility

Mobile brazing machine with high performance at standard 230V power supply.



Fast and even heating

Induction allows the required temperature to be reached very quickly and the joint to be heated evenly without affecting the surrounding parts.



Local impact

Heating is focused only on the joint area, without affecting surrounding materials or sensitive components.



Repeatability

Possibility of integration into automatic production sites.

[type]	[V]	[A]	[kW]	[kHz]	[IP CLASS]	[m]	[m]	[kg]	[mm]
DHI-48B	230	16	3.7	60-150	20	3	2.5	24.3	220x395x500



Induction heating for thermal clamps

Master of precise clamping

easyCLAMP is a compact shrink unit designed for quick tool changes in ISO30/ BT30 and ISO40/BT40 thermal clamps. Using controlled induction heating in the range of 150–300 °C, it enables safe, fast, and highly accurate clamping of shank tools with a diameter of Ø 3–12 mm.

The device is lightweight, compact, and easy to operate, making it ideal for both service use and everyday operation in tool shops and manufacturing. Simply plug it into a standard 230 V outlet and you can clamp or release the tool in seconds.



NEW
DTI-16
easyCLAMP
(60-001-01)
(coming soon)

Fast and precise tool clamping in seconds

Heat shrinkage is a modern and highly precise method of clamping tools without mechanical elements. Using controlled heating, the tool is clamped firmly and concentrically in a special heat clamp within seconds. This process ensures maximum clamping force, perfect balance, and extreme precision, making it ideal for high-performance and rotationally accurate machining. Heat shrink devices are the ideal choice for tool manufacturers, tool shops, and precision machining.



Extremely secure and precise clamping

Once clamped in the thermal clamping device, the tool has zero play, ideal for HSC machining.



Quick tool change

A single device can be used to clamp and release the tool in the thermal chuck in a matter of seconds.



Perfect alignment and balance

Thermal clamping is advantageous at high speeds.



Safe and repeatable process

Thanks to gentle induction heating, the risk of damage to the tool or clamp is minimal.



[type]	[V]	[A]	[kW]	[kHz]	[IP CLASS]	[m]	[m]	[kg]	[mm]
DTI-16	230	8	1.2	20-60	20	2	-	4	475x121x170



Tips for selecting and using DAWELL heaters

How to choose the right machine according to the type of applicator

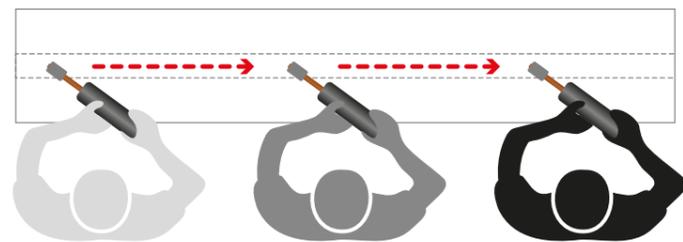
Version „DHI F“ – ideal for straightening

If you focus mainly on straightening before and after welding, we recommend version „F“ with a lightweight applicator. Thanks to its low weight, it is comfortable even during longer work and makes it easier to move around larger parts. Changing inductor requires a wrench for loosen the 4 screws. If you primarily use focusing inductor, the „F“ version is a practical choice.



Typical workplace for „F“ machines

Straightening large structures, long heating lines, movement over a larger area, universal focusing inductor „for everything“.



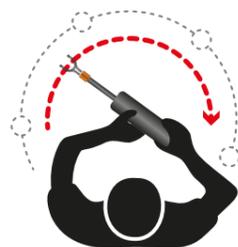
Version „DHI C“ – for maximum versatility

If you work on a variety of jobs and need to change inductors frequently, choose version „C.“ Thanks to the quick screw system, replacement takes just a few seconds – no tools, no delays. The applicator is more robust, but if you work mainly in one place, you will definitely appreciate this versatility.



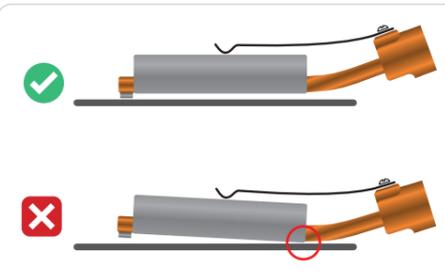
Typical workplace for „C“ machines

Intense heating in a small circle, various applications with different inductors.



Comparison of versions „F“ and „C“	Version F with lightweight applicator	Version C with quick inductor replacement
Main use	Straightening after welding	Diverse applications, frequent inductor changes
Applicator weight	Low – suitable for longer work	Suitable for stationary use
Comfort when moving around the part	Excellent	Good
Inductor replacement speed	Slower, using 4 screws	Quick – no tools required
Tools required for replacement	Socket wrench	None
Recommended for frequent inductor replacement	No	Yes
Versatility	Good if you don't change the inductor often	Excellent
Recommended environment	Working in a larger space	Work at a fixed location

How to correctly position and guide the focusing inductor



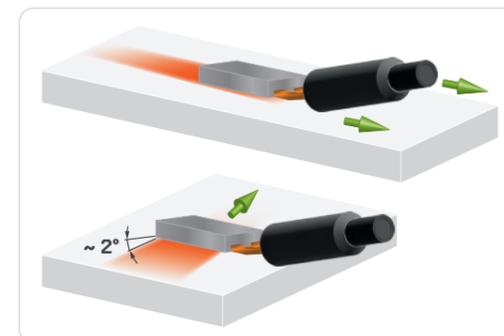
Inductor placement

The inductor must be kept as parallel as possible to the surface of the material, typically at a distance of 2–4 mm from the heated surface. Neither the copper part nor the ferrite core should come into direct contact with the heated material to prevent short circuits, overheating, and damage. For this reason, there is a „nose“ at the front of the inductor, which supports and moves it.

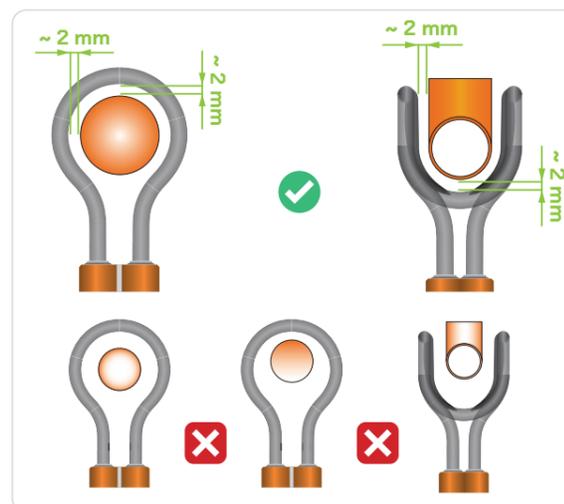
Direction of movement

For longer heating lines, we recommend pulling the applicator away from the already heated material. This will make working with the applicator easier and prevent burns to the operator or damage to the handle from the heated metal.

For smaller areas, when moving „sideways,“ we can help ourselves by tilting the inductor slightly, about 2°, in the direction of movement, because the repulsive magnetic forces in the heated material tend to move the tilted ferrite in this direction on their own.



How to select the appropriate size of circular and „U“ inductors and how to position them correctly



How to choose the size?

Circular and „U“ inductors should have an inner diameter 2–5 mm larger than the heated part. This ensures high heating efficiency and prevents direct contact between the inductor and the heated part, which is important for the safety and service life of the device.

How to position it correctly?

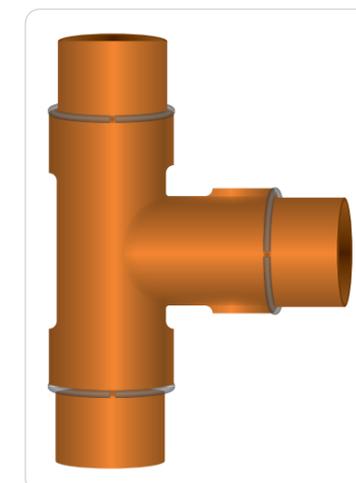
The inductor should always be positioned symmetrically around the joint or heating point. The part should be held as close as possible to the axis of the inductor – tilting or deflection can cause unwanted overheating on one side. For larger parts or more complex shapes, multi-turn inductors or shaped inductors can be used.

How to do induction brazing

Use a suitable inductor - the shape and size of the inductor plays a crucial role - it should match the shape of the joint as closely as possible.

Ensure the surface is clean - the surfaces for brazing must be clean, degreased, and free of oxides so that the solder adheres well.

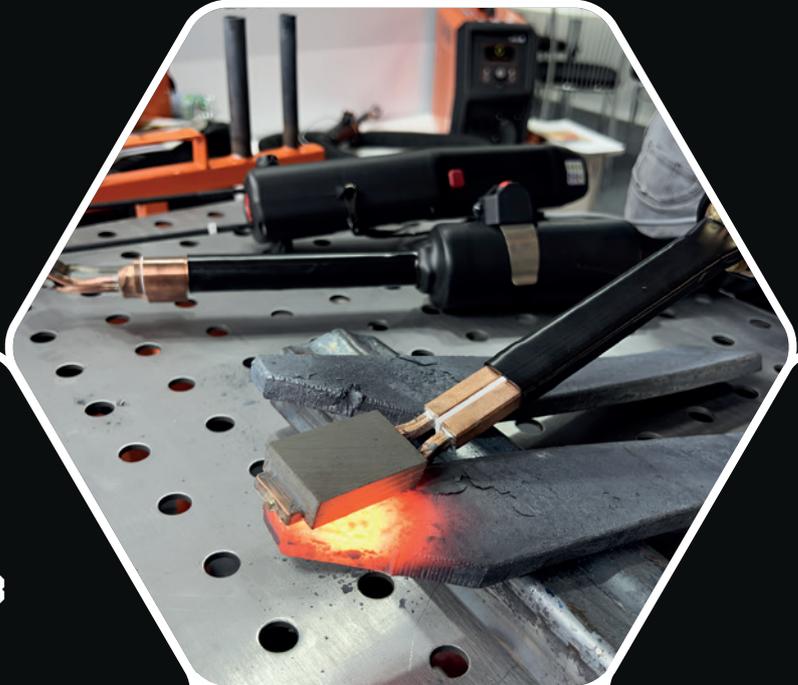
Solder - for induction soldering of pipes, we recommend using soldering rings of a suitable diameter instead of conventional soldering wire. These are placed directly on the pipe and ensure a high-quality joint, shorten the preparation time, and facilitate the soldering process itself.



OVERVIEW AND COMPARISON OF INDUCTION HEATERS PARAMETERS	DCI-13	DHI-15	DHI-44E	DHI-45F	DHI-45C	DHI-48B
						
TECHNICAL DATA						
Power supply	230 V	230 V	230 V	230 V	230 V	230 V
Fuse protection	8 A	8 A	16 A	16 A	16 A	16 A
Power input	1.2 kW	1.5 kW	3.7 kW	3.7 kW	3.7 kW	3.7 kW
Material thickness optimal/maximum			5/8 mm	5/8 mm	5/8 mm	6/28 mm
Nut size	M6 - M22	M6 - M22	M6 - M27	M6 - M27	M6 - M27	Ø 6-22/28 mm
Heating time	low	low	medium	high	high	medium
Weight	2 kg	4.5 kg	11.5 kg	12.5 kg	13.5 kg	24.3 kg
APPLICATOR TYPE						
Compact	✓	✓	✓	✓	✓	
Lightweight version	✓	✓	✓	✓	✓	
With quick inductor replacement	✓	✓	✓	✓		✓
Applicator cable length		0.7 m	2 m	2 m	2 m	2.5 m
EQUIPMENT						
Inductor cooling method	air	air	liquid	liquid	liquid	liquid
4-stroke function [Q4/2025]						
Continuous power control			✓	✓	✓	✓
Remote control connector				✓	✓	✓
Timer			✓	✓	✓	✓
RECOMMENDED USE						
Service of cars and light equipment	***	***	***	***	**	
Service of trucks and heavy equipment	*	*	**	**	**	
Straightening after welding				**	**	
Brazing					**	***
Industrial applications				*	*	*
HEATED MATERIAL						
Iron	**	**	**	**	**	*
Steel	**	**	*	**	**	*
Stainless steel	*	*	*	**	**	*
Cast iron	*	*	*	**	**	*
Aluminium				*	*	**
Copper				*	*	***
Brass				*	*	**

DHI-120F HD	DHI-121E	DHI-121F	DHI-121C HD	DHI-160E	DHI-160F HD	DHI-161C HD	DHI-190E	DHI-190F HD	DHI-191C HD
									
3x400 V									
16 A	16 A	16 A	16 A	25 A	25 A	25 A	32 A	32 A	32 A
11 kW	11 kW	11 kW	11 kW	16 kW	16 kW	16 kW	19 kW	19 kW	19 kW
25/40 mm	25/40 mm	25/40 mm	25/40 mm	30/60 mm	30/60 mm	30/60 mm	40/120 mm	40/120 mm	40/120 mm
>M45									
continuously	medium	continuously	continuously	medium	continuously	continuously	medium	continuously	continuously
68 kg	58 kg	58 kg	61 kg	96 kg					
APPLICATOR TYPE									
✓				✓	✓		✓	✓	
	✓	✓	✓			✓			✓
4/6/8/10 m	4 m	4 m	4/6/8/10 m	6/10 m	6/10 m	6/10 m	6/10 m	6/10 m	6/10 m
EQUIPMENT									
liquid									
✓					✓			✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RECOMMENDED USE									
**	***	***	**	***	**	**	**	**	**
***	***	***	***	***	***	***	***	***	***
***	**	**	**	*	***	**	*	***	**
*	*	*	***	*	*	**	*	*	***
**	*	**	***	*	**	***	*	**	***
HEATED MATERIAL									
***	***	***	***	***	***	***	***	***	***
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DAWELLING IS THE FLAMELESS WAY OF HEATING



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