MADE IN CZECH REPUBLIC

DAWELL CZ
INDUCTION | RESISTANCE HEATING

MOBILE INDUCTION AND RESISTANCE HEATERS

EN

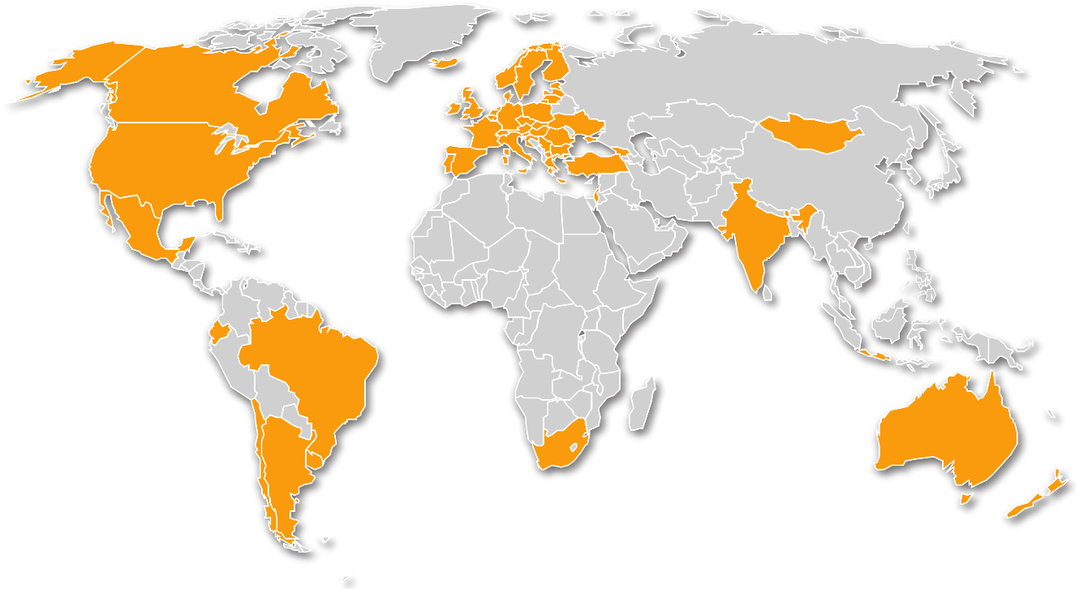
DAWELL CZ
INDUCTION | RESISTANCE HEATING

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	75 000+	45+
company established	devices sold	export destinations

Our own development	100% Czech manufacture	Customer support
We develop cutting edge innovative products.	Our products are manufactured in the Czech Republic.	We provide expert consulting, training, and service.

EXPORT



OUR VALUES

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

dawelling
MOBILE INDUCTION & RESISTANCE HEATING

DAWELL technology

efficient, economical and safe way of flameless heating.

COMPANY HEADQUARTERS

SERVICE, MAINTENANCE

EasyFix

230 V

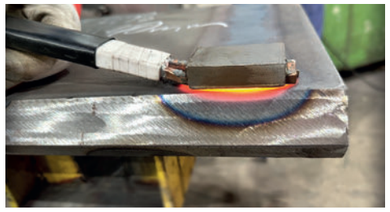
- EasyFix DCI-13 
- Bestseller
  EasyFix DHI-15 
- NEW
  EasyFix 16
  EasyFix 20 
- NEW
  EasyFix 30 
- EasyFix DHI-44E 

3× 400 V

- EasyFix DHI-121E 
- EasyFix DHI-160E 
- EasyFix DHI-190E 

- economical solution
- good price-performace ratio
- high mobility
- fast and safe heating

WELDING MARKET, STRAIGHTENING



FlatFix

230 V

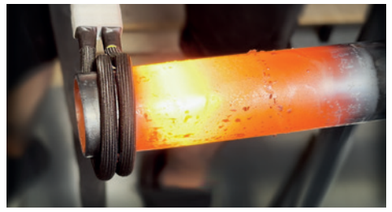
- FlatFix DHI-45F 

3× 400 V

- FlatFix DHI-121F 
- FlatFix DHI-120F HD 
- FlatFix DHI-160F HD 
- Bestseller
  FlatFix DHI-190F HD 

- optimized for straightening
- lightweight ergonomic handle
- high load capacity
- high performance

INDUSTRY, AUTOMATION



CoilPro

230 V

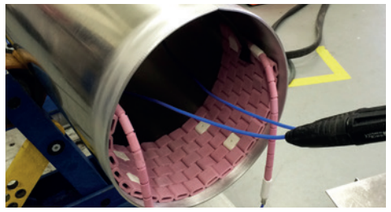
- Bestseller
  CoilPro DHI-45C 

3× 400 V

- CoilPro DHI-121C HD 
- CoilPro DHI-161C HD 
- CoilPro DHI-191C HD 

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

PREHEATING, ANNEALING



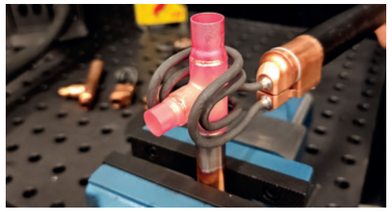
ResiHeat

3× 400 V

- ResiHeat DHC 6510R 

- inverter resistance heating
- controlled preheating & annealing

BRAZING



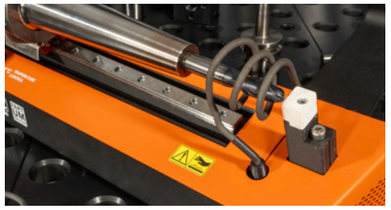
BrazeMaster

230 V

- BrazeMaster DHI-48B 

- mobile soldering machine
- wide range of accessories
- quick inductor replacement

TOOL CLAMPING



ShrinkFit

230 V

- NEW
  ShrinkFit DTI-16 

- 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

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

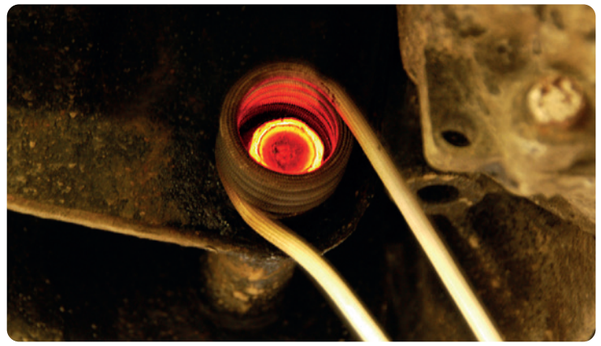
Heating takes place without an open flame, which reduces the risk of fire or burns. This makes work safer for mechanics and surrounding equipment.

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.

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.

Quick help for the workshop

EasyFix DCI-13
(10-001-01)
Set of inductors
Plastic case

EasyFix DHI-15
(05-300-01)
Set of inductors
Plastic case

EasyFix 16
EasyFix 20
Set of inductors
Plastic case
(coming soon)

EasyFix 30
Set of inductors
Plastic case
(coming soon)

The heaters ***EasyFix*** with air-cooled inductors 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]
EasyFix DCI-13	**230**	**8**	**1.2**	**20–60**	**20**	**3**	-	**1.1**	**350×60×85**
EasyFix DHI-15	**230**	**8**	**1.5**	**20–60**	**20**	**3**	**0.7**	**4.5**	**200×140×75**
EasyFix 16*	230	8	1.6	30–60	20	2	1	4	240×160×100
EasyFix 20*	230	10	2	30–60	20	2	1	4.1	240×160×100
EasyFix 30*	230	15	3	30–60	20	2	1	4.2	240×160×100

** Preliminary parameters.*

Complete machine sets with accessories

Basic set for EasyFix 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 EasyFix DHI-15
- front inductor ø 19 mm
- front inductor ø 26 mm
- inductor PAD
- inductor FLEXI

Extended set for EasyFix DHI-15
machine + set of front inductors MAX

Most used inductors for EasyFix DCI-13 / DHI-15

white (80-202-01)
PAD removal

white (80-203-01)
PAD finish

white (80-204-01)
PAD radius

Replacement ferrite core (50-002)

only for EasyFix DHI-15

white (80-251-01)
Focusing

white (80-171-01)

- 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

Set of front inductors EASY

(80-257-01)
FLEXI ceramic

white (80-253-01)
FLEXI

For winding your own inductor.

white (80-121-01)
WIRE

white (80-172-01)

- 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

Set of side inductors EASY

- 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)

** only for EasyFix DHI-15*

- 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

Set of side inductors MAX

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

Power for major repairs

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

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

EasyFix DHI-160E
(12-020)
Rectangular focusing inductor 33×52 mm
(12-101-01)

EasyFix DHI-190E
(12-005)
Rectangular focusing inductor 33×52 mm
(12-101-01)

The serie ***EasyFix*** with liquid-cooled inductors offers 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.

Liquid-cooled inductors
for long-term, stable performance

High versatility
thanks to interchangeable focusing and circular inductors

Optimized for repairs and maintenance
from car repair shops to heavy industry

Smooth power control (20–100%)
and timer setting option

Easy handling
low weight, mobile design with handle or wheels

Display with parameter overview
LED lighting and USB for updates.

[type]	[V]	[A]	[kW]	[kHz]	IP CLASS [-]	[m]	[m]	[kg]	[mm]
EasyFix DHI-44E	230	16	3.7	18–60	22	3	2	11.5	240×200×440
EasyFix DHI-121E	3×400	3×16	11	18–35	21	5	4	58	540×810×710
EasyFix DHI-160E	3×400	3×25	16	18–35	21	5	6/10	96	540×960×850
EasyFix DHI-190E	3×400	3×32	19	18–35	21	5	6/10	96	540×960×850

Most used inductors for EasyFix DHI-44E

(07-102)
Skew focusing

(07-103)
Side focusing

(07-104)
Straight focusing

(07-108)
Car Nut

(07-110)
Circular focusing with reduction

(07-101)
Applicator extension

Note: inductor not included.
(07-105)
Reducer for circular inductors

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

Most used inductors for EasyFix 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)

33×52 mm (84-020-01)
Rectangular focusing

ø 21 mm (84-011-01)
ø 24 mm (84-011-02)
ø 27 mm (84-011-03)
ø 31 mm (84-011-04)
ø 35 mm (84-011-05)
ø 38 mm (84-011-06)
ø 42 mm (84-011-07)
ø 45 mm (84-011-08)
ø 50 mm (84-012-01)
ø 55 mm (84-012-02)
ø 60 mm (84-012-03)
ø 65 mm (84-012-04)
ø 70 mm (84-012-05)
ø 75 mm (84-012-06)
ø 80 mm (84-012-07)
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 EasyFix DHI-160E / 190E

Replacement ferrite
33×52 mm
(12-201-01)

33 × 52 mm (12-101-01)
Rectangular focusing

Replacement ferrite
Ø 38 mm
(12-202-01)

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

Note: complete range of inductors available on request.

Other accessories

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-4x

Induction straightening in welding shops

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

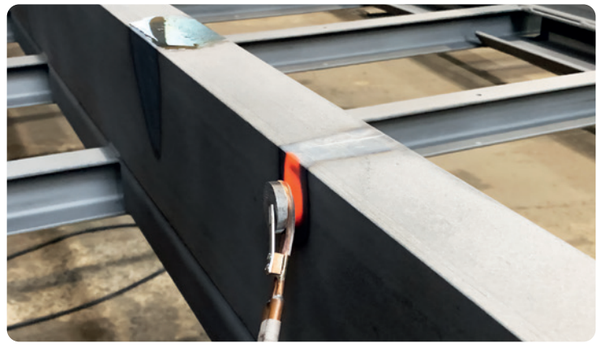
Heating takes place without the risk of cracks, overheating, or structural changes to the material.

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.

Straightening welded frames and structural components

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

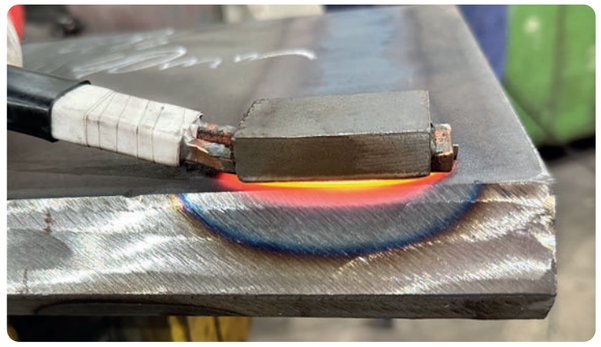


Removing deformations on covers, panels, and sheets

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

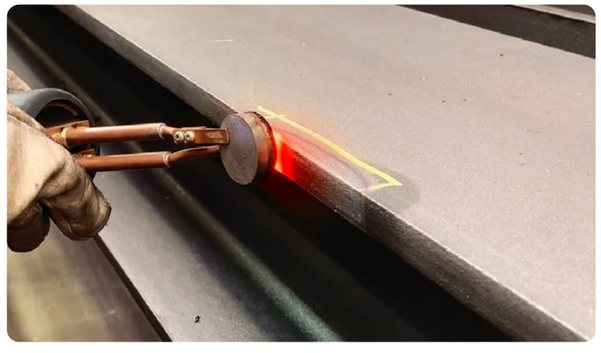
Correction of bent profiles after welding

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.



Specialists in induction straightening

FlatFix DHI-45F
(07-002-01)
Side focusing inductor
(07-103)

FlatFix DHI-121F
(09-008)
Circular focusing inductor
ø 32 mm
(84-023-01)

FlatFix DHI-120F HD
(09-013)
Circular focusing inductor
ø 32 mm
(09-136-01)

FlatFix DHI-160F HD
(12-022)
FlatFix DHI-190F HD
(12-001)
Rectangular focusing inductor
33×52 mm
(12-101-01)

The induction heaters ***FlatFix*** 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]
FlatFix DHI-45F	230	16	3.7	18–60	22	3	2	12.5	240×200×440
FlatFix DHI-121F	3×400	3×16	11	18–45	21	5	4	58	540×810×710
FlatFix DHI-120F HD	3×400	3×16	10	18–45	21	5	4/6/8/10	68	540×810×710
FlatFix DHI-160F HD	3×400	3×25	16	18–35	21	5	6/10	96	540×960×850
FlatFix DHI-190F HD	3×400	3×32	19	18–35	21	5	6/10	96	540×960×850

** For selected machine types - see table on pages 30–31.*

Most used inductors for FlatFix DHI-45F

(07-102)
Skew focusing

(07-103)
Side focusing

(07-104)
Straight focusing

(07-108)
Car Nut

(07-110)
Circular focusing with reduction

(07-101)
Applicator extension

Inductor not included.
(07-105)
Reducer for circular inductors

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

Most used inductors for FlatFix 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)

33×52 mm (84-020-01)
Rectangular focusing

ø 21 mm (84-011-01)
ø 24 mm (84-011-02)
ø 27 mm (84-011-03)
ø 31 mm (84-011-04)
ø 35 mm (84-011-05)
ø 38 mm (84-011-06)
ø 42 mm (84-011-07)
ø 45 mm (84-011-08)
ø 50 mm (84-012-01)
ø 55 mm (84-012-02)
ø 60 mm (84-012-03)
ø 65 mm (84-012-04)
ø 70 mm (84-012-05)
ø 75 mm (84-012-06)
ø 80 mm (84-012-07)
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 FlatFix DHI-120F HD

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

32 mm (09-136-01)
Straight circular focusing

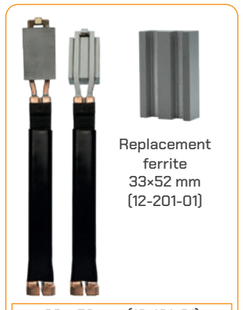
32 mm (09-117-01)
Front circular focusing

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 67 mm (09-109-01)
Circular 1 threaded

ø 22 mm (09-111-01)
ø 28 mm (09-112-01)
ø 34 mm (09-112-01)
Circular 2 threaded

ø 14 mm (09-115-01)
ø 17 mm (09-116-01)
„U“ 2 threaded

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



Replacement ferrite
33×52 mm
(12-201-01)

33 × 52 mm (12-101-01)
Rectangular focusing

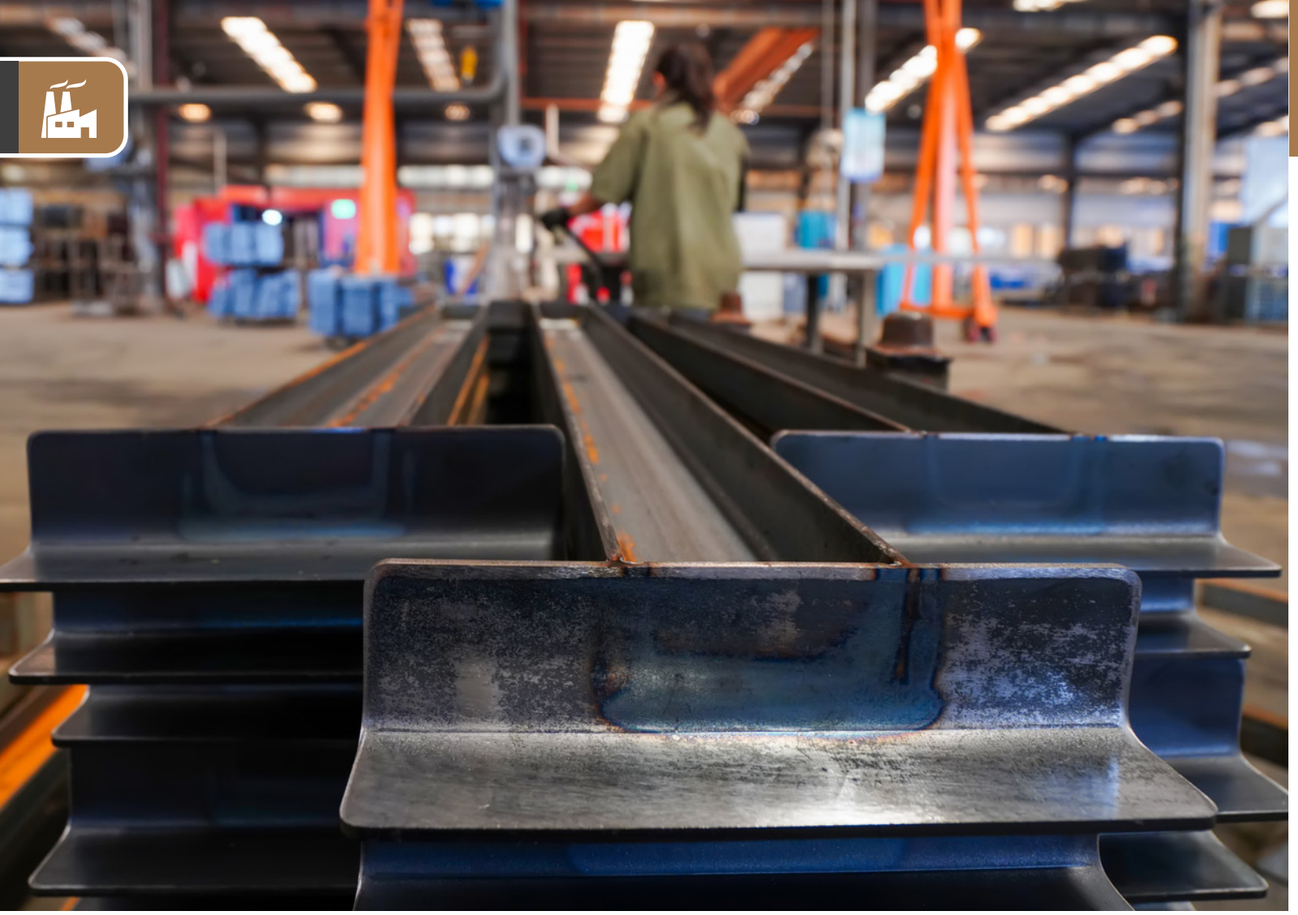
Replacement ferrite
Ø 38 mm
(12-202-01)

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

Complete range of inductors available on request.



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.

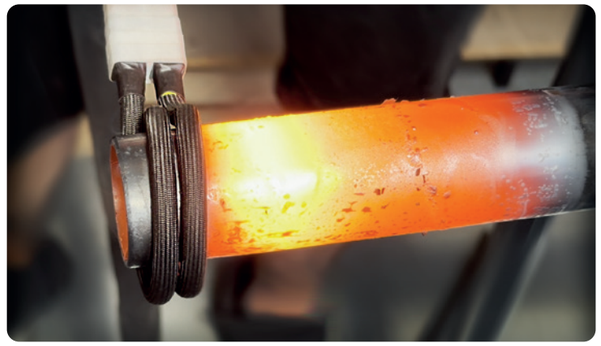
Mobility and flexibility of use

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

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.



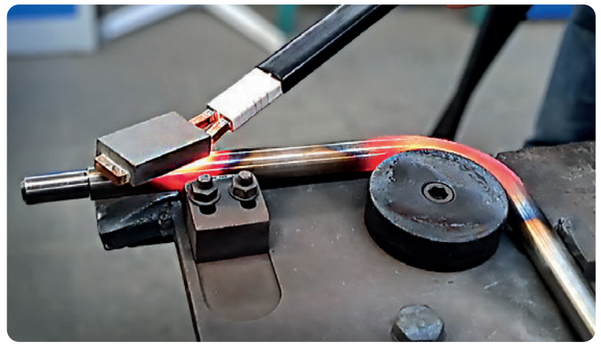
Heating components in production lines

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

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

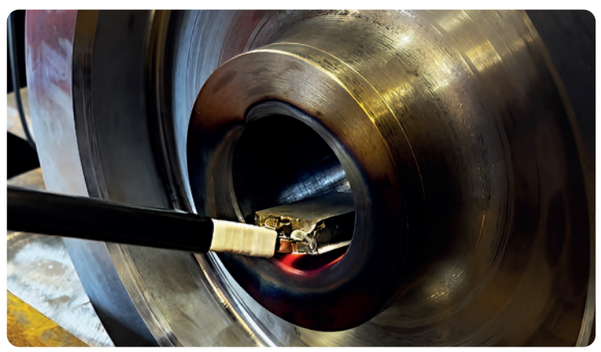
Metal forming

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

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

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

CoilPro DHI-161C HD
(12-021)
Rectangular focusing inductor
33×52 mm
(84-020-01)

CoilPro DHI-191C HD
(12-003)
Rectangular focusing inductor
33×52 mm
(84-020-01)

The induction heaters ***CoilPro*** 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]
CoilPro DHI-45C	230	16	3.7	18–60	22	3	2	13.5	240×200×440
CoilPro DHI-121C HD	3×400	3×16	11	18–35	21	5	4/6/8/10	61	540×810×710
CoilPro DHI-161C HD	3×400	3×25	16	18–35	21	5	6/10	96	540×960×850
CoilPro DHI-191C HD	3×400	3×32	19	18–35	21	5	6/10	96	540×960×850

Most used inductors for CoilPro 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 CoilPro DHI-121C HD / 161C HD / 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)

33×52 mm (84-020-01)
Rectangular focusing

** only for DHI-121C HD*
ø 21 mm (84-011-01)
ø 24 mm (84-011-02)
ø 27 mm (84-011-03)
ø 31 mm (84-011-04)
ø 35 mm (84-011-05)
ø 38 mm (84-011-06)
ø 42 mm (84-011-07)
ø 45 mm (84-011-08)
ø 50 mm (84-012-01)
ø 55 mm (84-012-02)
ø 60 mm (84-012-03)
ø 65 mm (84-012-04)
ø 70 mm (84-012-05)
ø 75 mm (84-012-06)
ø 80 mm (84-012-07)
ø 85 mm (84-012-08)*
ø 90 mm (84-012-09)*
ø 95 mm (84-012-10)*
ø 100 mm (84-012-11)*
ø 110 mm (84-012-12)*
Circular 1 threaded

Note: Complete range of inductors available on request.

Other accessories

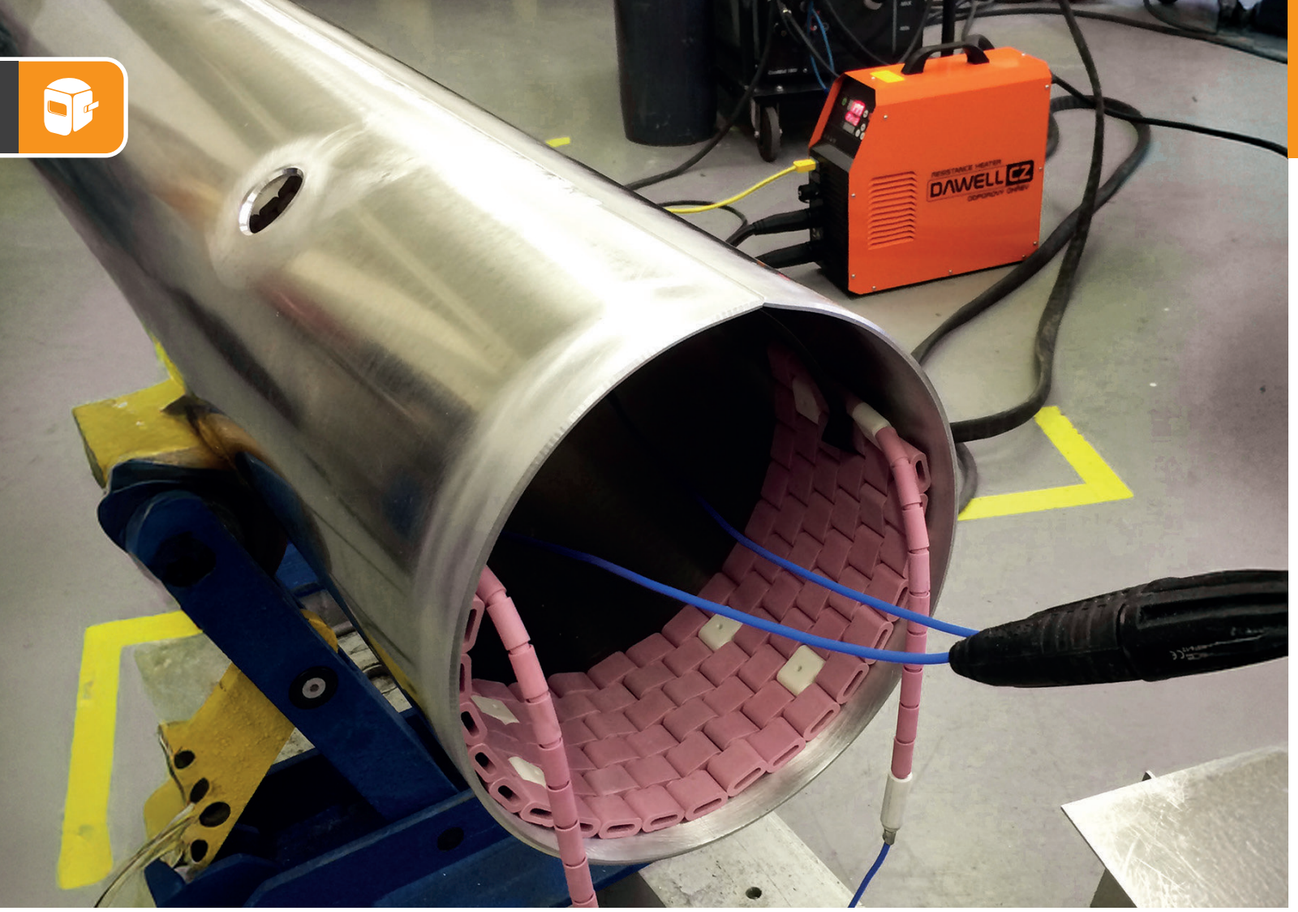
DHI-45C (09-203-02)
DHI-1xx (12-200-01)
Remote control - pedal

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



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 t 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.

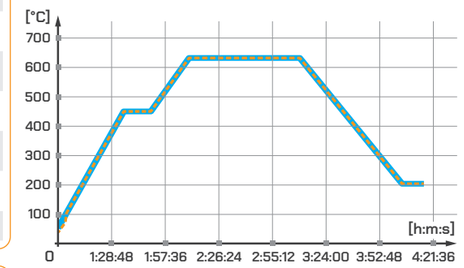
Resistance heater with temperature control

The ***ResiHeat 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.

Technical data	Description / values
Output voltage / current	0-60 V / 180 A, 65 V / 160 A countinuously 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 isuation
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

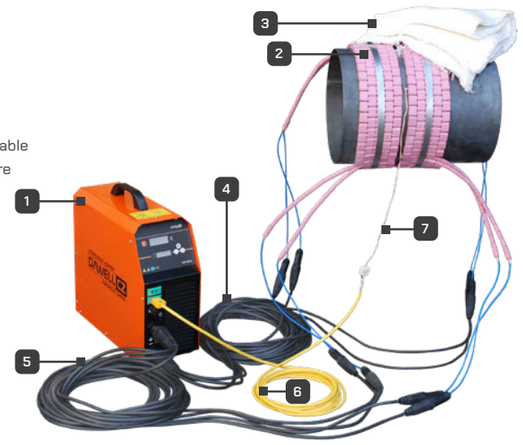
ResiHeat DHC 6510R
(04-004-01)
USB cable

Output from the built-in recorder



Extended set

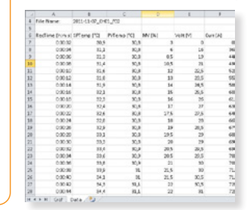
1. Inverter ResiHeat
2. Elements
3. Insulation tygasil
4. Splitting cable
5. Extending cables
6. Compensations cable
7. Thermocouple wire



Values recorded in the recorder

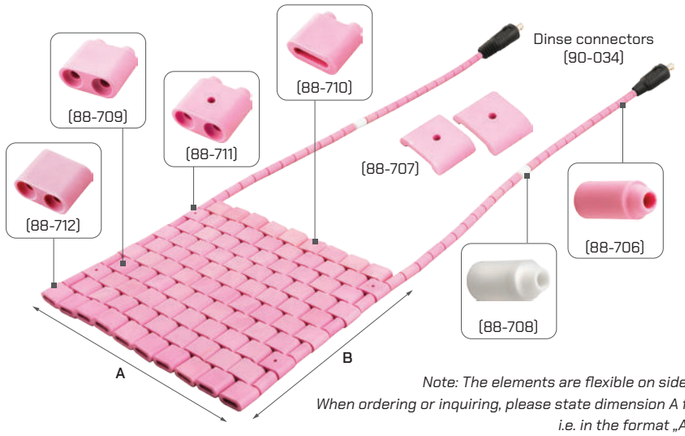
SPTemp	[°C]	Setting value – required temperature
PVTemp	[°C]	Process Value – actual measured temperature
MV	[%]	Manipulation Value – output power
Volt	[V]	Measured output voltage
Curr	[A]	Measured output current

Table of measured data exported to Excel



[type]	[V]	[A]	[kW]	[-]	[m]	[kg]	[mm]
ResiHeat DHC 6510R	3×400	25	10.8	21	3	17	170×370×405

Elements for ResiHeat DHC 6510R



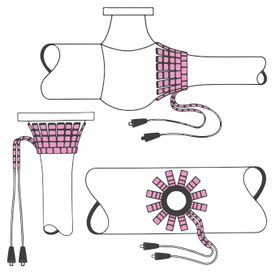
Note: The elements are flexible on side „A". When ordering or inquiring, please state dimension A first, i.e. in the format „A×B".

Ceramic elements 30 V

Order no.	No. of elements A×B	Dimensions A×B (mm)	Order no.	No. of elements A×B	Dimensions A×B (mm)
88-112	3×17	75×355	88-124	8×6	200×125
88-113	3×18	75×380	88-125	8×7	200×145
88-114	4×11	100×230	88-126	9×5	225×105
88-115	4×12	100×250	88-127	9×6	225×125
88-103	4×13	100×275	88-128	10×4	255×85
88-116	4×14	100×295	88-109	10×5	255×105
88-104	5×9	125×190	88-102	11×4	280×85
88-117	5×10	125×210	88-101	11×5	280×105
88-105	5×11	125×230	88-108	12×4	305×85
88-118	6×7	150×145	88-129	13×4	330×85
88-111	6×8	150×165	88-130	14×4	355×85
88-119	6×9	150×190	88-131	15×3	380×65
88-120	7×6	175×125	88-132	16×3	405×65
88-121	7×7	175×145	88-133	17×3	430×65
88-122	7×8	175×165	88-134	18×3	455×65
88-123	8×5	200×105	88-110	24×2	610×40

(88-450)

Ceramic element „Spreader mats" 60 V



(88-401)

Ceramic element „Finger" 60 V

(88-352)

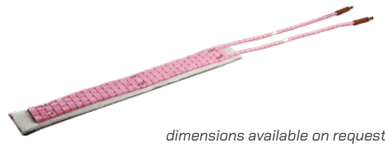
Ceramic element „Snake" 60 V

Ceramic elements 60 V

Order no.	No. of elements A×B	Dimensions A×B (mm)
88-033	3×32	75×670
88-034	3×33	75×690
88-035	3×34	75×710
88-036	4×24	100×505
88-026	4×25	100×525
88-037	4×26	100×545
88-018	5×18	125×380
88-022	5×20	125×420
88-031	5×21	125×440
88-005	5×22	125×460
88-038	6×16	150×335
88-039	6×17	150×355
88-006	6×18	150×380
88-014	7×14	175×295
88-040	7×15	175×315
88-041	8×12	200×250
88-042	8×13	200×275
88-043	9×11	225×230
88-044	9×12	225×250
88-015	10×10	255×210
88-045	10×11	255×230
88-046	11×9	280×190
88-047	11×10	280×210
88-030	12×8	305×165
88-007	12×9	305×190
88-016	13×7	330×145
88-048	13×8	330×165
88-023	14×7	355×145
88-049	15×6	380×125
88-019	15×7	380×145
88-008	16×6	405×125
88-050	17×5	430×105
88-001	17×6	430×125
88-051	18×5	455×105
88-013	18×6	455×125
88-017	19×5	480×105
88-003	20×5	510×105
88-052	21×4	535×85
88-058	21×5	535×105
88-055	22×5	560×105
88-059	23×4	585×85
88-053	24×4	610×85
88-032	25×4	635×85
88-024	26×4	665×85
88-056	27×4	690×85
88-002	28×3	715×65
88-060	29×3	735×65
88-012	31×3	785×65
88-057	32×3	815×65
88-021	48×2	1220×40

Note: Complete range of ceramic elements available on request.

Elements for ResiHeat DHC 6510R

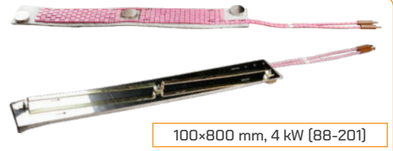


dimensions available on request

Ceramic element FIP

dimensions according to specific application requirements

Channel elements



100×800 mm, 4 kW (88-201)

Ceramic magnetic element

available variants and dimensions on request

Preheating cassettes

individual (88-751) | pair (88-752)

Magnets for ceramic elements

2.2 m / 1.5 kW / 31 V (88-252)

4.6 m / 3 kW / 65 V (88-251)

Element „ONE LINE"

2.14 m / 1.35 kW / 30 V (88-501)

4.27 m / 3 kW / 65 V (88-251)

Element „ONE LINE" braided

Other accessories

dimensions can be adjusted according to requirements

0.3 × 1.6 m (04-182-01)

0.3 × 2 m (04-183-01)

0.3 × 3 m (04-185-01)

Tygasil insulation piece, thick. 12 mm

0.61 × 7.6 m (90-018)

Tygasil insulation roll, thick. 12 mm

0.61 × 14.64 m, th. 13 mm (90-031)

0.61 × 7.32 m, th. 25 mm (90-029)

Insulation „Ceramic Fibre"

length 5 m, 2 outlets (04-132-01)

length 4 m, 4 outlets (04-145-01)

length 10 m, 1 outlet (04-111-01)

length 15 m, 1 outlet (04-113-01)

Double connecting cables

length 10 m, 4 outlets (04-141-01)

length 15 m, 4 outlets (04-142-01)

Distribution cables

for 3 heaters DHC (04-101-01)

for 6 heaters DHC (04-102-01)

Trolleys

TW163 is a capacitive rechargeable welding unit used to attach a thermocouple. This unit operates with a mains connection for recharging.

Dimensions: 190 mm × 300 mm × 100 mm

Weigth: 4.2 kg

Battery type: 12 V / 2.1 Ah, lead, sealed (impermeable)

Welding voltage from 37 to 60 V (output from 18 to 40 joules)

(90-001)

TW163V thermocouple welder

wire thickness 0.711 mm

green/white (90-002)

red/yellow (90-030)

Thermocouple wires, by the meter

(90-026)

Magnet for thermocouple

(88-801)

Resistance wire ceramic elements

belt tightening pliers (90-015)

steel tape (90-011)

locks for steel tape (90-016)

Set for fastening elements to the heated part

1×2 (04-151-01)

1×3 (04-152-01)

1×6 (04-154-01)

1×9 (04-157-01)

Connecting cable with USB

length 1 m (04-165-01)

length 5 m (04-170-01)

length 10 m (04-161-01)

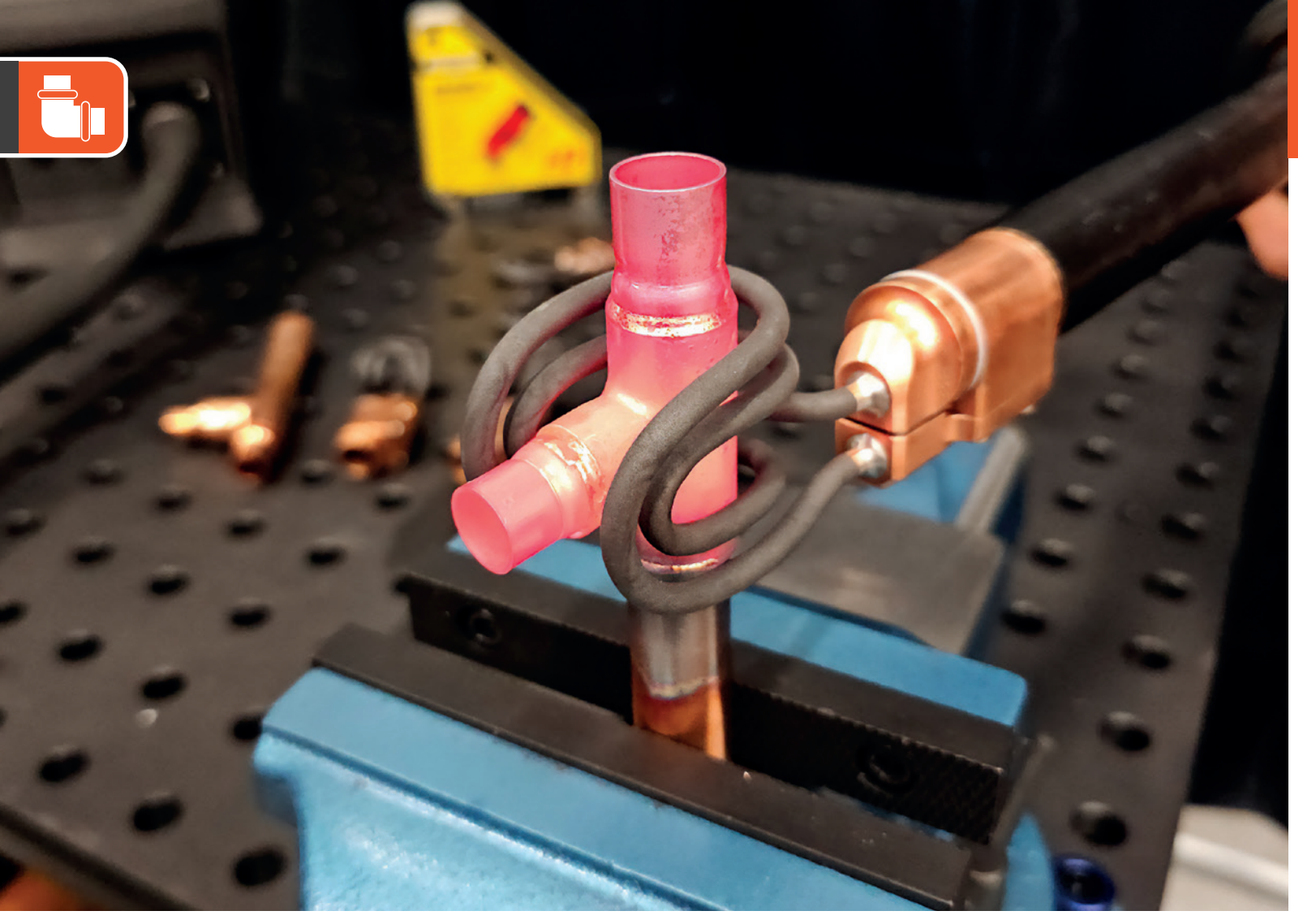
Compensation cable 2× 1.5 mm²

„male" (90-005)

„female" (90-006)

Thermocouple connectors

Note: Complete range of additional accessories available on request.



Induction brazing

Brazing genius

The ***BrazeMaster 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.

BrazeMaster DHI-48B
(14-001-01)
Inductor „U“ 16 mm
(84-017-03)

Most used inductors for BrazeMaster DHI-48B

ø 12 mm (84-013-01)
ø 14 mm (84-013-02)
ø 16 mm (84-013-03)

Circular 2 threaded

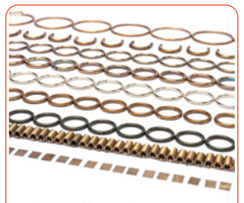
ø 12 mm (84-017-01)
ø 14 mm (84-017-02)
ø 16 mm (84-017-03)
ø 18 mm (84-017-04)
ø 21 mm (84-017-05)
ø 24 mm (84-017-06)
ø 27 mm (84-018-01)
ø 31 mm (84-018-02)

„U“ 2 threaded

ø 12 mm (84-010-01)
ø 14 mm (84-010-02)
ø 16 mm (84-010-03)
ø 18 mm (84-010-04)
ø 21 mm (84-011-01)
ø 24 mm (84-011-02)
ø 27 mm (84-011-03)
ø 31 mm (84-011-04)
ø 35 mm (84-011-05)
ø 38 mm (84-011-06)
ø 42 mm (84-011-07)
ø 45 mm (84-011-08)

Circular 1 threaded

Other accessories



Note: offer available upon request.

Solder, soldering rings

DHI-4x (09-203-02)

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

(07-400-01)

Trolley for heaters DHI-4

[type]	[V]	[A]	[kW]	[kHz]	[-]	[m]	[m]	[kg]	[mm]
BrazeMaster DHI-48B	230	16	3.7	60-150	20	3	2,5	24.3	220×395×500

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.

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.

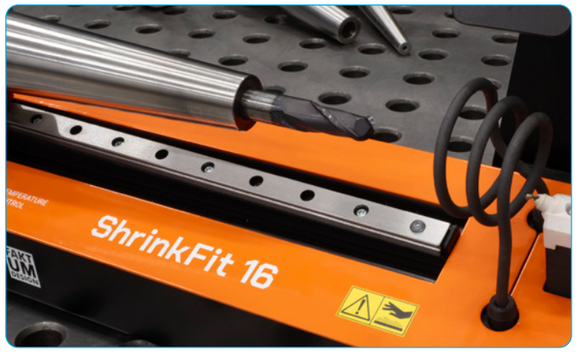
Induction heating for thermal clamps

Master of precise clamping

ShrinkFit is a compact device 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.

ShrinkFit DTI-16
(60-001-01)



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]	[-]	[m]	[kg]	[mm]
ShrinkFit DTI-16	230	8	1.2	20-60	20	2	4	475×121×170

Tips for selecting and using DAWELL heaters

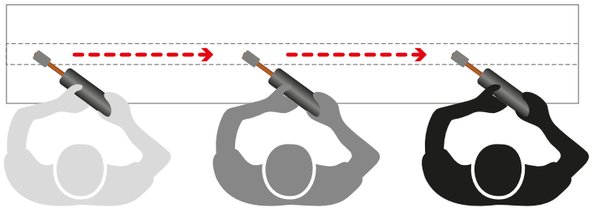
How to choose the right machine according to the type of applicator

„FlatFix“ – ideal for straightening

If you focus mainly on straightening before and after welding, we recommend version „FlatFix“ 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 „FlatFix“ version is a practical choice.

Typical workplace for „FlatFix“ machines

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

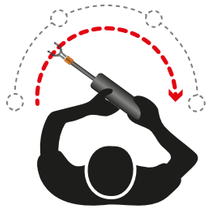


Version „CoilPro“ – for maximum versatility

If you work on a variety of jobs and need to change inductors frequently, choose version „CoilPro.“ 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.

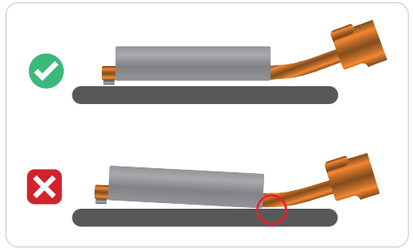
Typical workplace for „CoilPro“ machines

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



Comparison	FlatFix with lightweight applicator	CoilPro 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



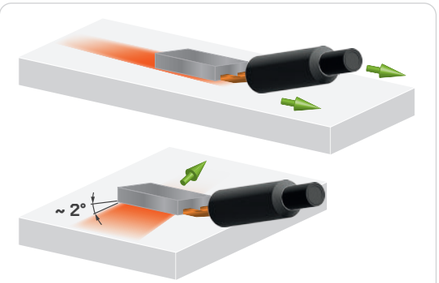
Inductor placement

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 his reason, there is a „nose“ at the front of the inductor, which supports and moves it.

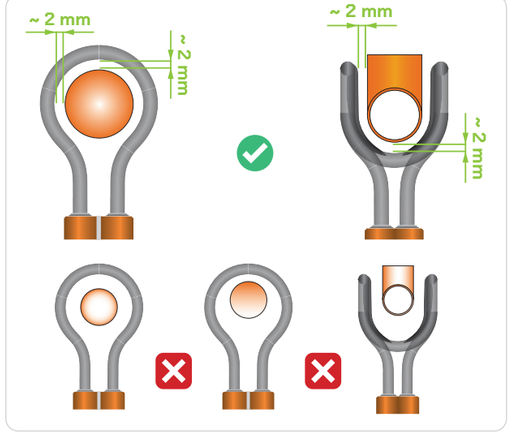
Direction of movement

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?

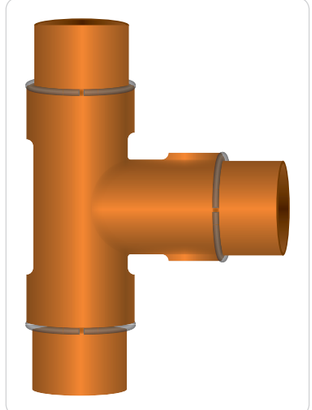
The inductor should always be positioned symmetrically around the joint or heating point. The part should be held as close as possible to the axis of the inductor – tilting or deflection can cause unwanted overheating on one side. For larger parts or more complex shapes, multi-turn inductors or shaped 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	
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						
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
									
3×400 V	3×400 V	3×400 V	3×400 V	3×400 V	3×400 V	3×400 V	3×400 V	3×400 V	3×400 V
16 A	16 A	16 A	16 A	25 A	25 A	25 A	32 A	32 A	32 A
10 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	>M45	>M45	>M45	>M45	>M45	>M45	>M45	>M45	>M45
continuously	medium	continuously	continuously	medium	continuously	continuously	medium	continuously	continuously
68 kg	58 kg	58 kg	61 kg	96 kg	96 kg	96 kg	96 kg	96 kg	96 kg
✓				✓	✓		✓	✓	
	✓	✓	✓			✓			✓
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
liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid
✓		✓	✓		✓	✓		✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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DAWELLING IS THE FLAMELESS WAY OF HEATING

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