



 ENGLISH
VERSION

nit[®]

automotive induction technologies

CATALOG

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enit[®]
automotive induction technologies



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ABOUT US

We have been dedicated to producing induction products for almost twenty years. We have consolidated our knowledge and reliability through important partnerships developed over the years, thus creating a complete range of equipment dedicated to induction and plastic welding.

- » Made in Italy
- » Research & development
- » Customization
- » After-sales service

OUR CLIENTS

Our clients range from small automotive workshops to large global industrial brands in manufacturing and maintenance. We are constantly looking for local representatives around the world.

If you believe that our product range and expertise could be a resource for your company, please send an email to sales@ait-induction.com, and we will contact you.



WHY CHOOSING US

- Complete product range for automotive and collision. Industrial focused range
- Product reliability
- Product efficiency
- Customized product development
- Remote or on-site after-sales service

INDUCTION HEATING AND ITS ADVANTAGES

Induction machines transform electrical current input into heat, then apply it to the inside of ferromagnetic materials, with high power and highly efficient operation, avoiding any change in the characteristics of the material itself.



FAST HEATING

SAFER NO OPEN FLAMES

ENHANCEMENT IN
PRODUCT QUALITY

PRECISE AND
REPEATABLE HEATING

PROCESS
OPTIMISATION

COST REDUCTION BY
MORE THAN 50%

**100%
INDUCTION
EXPERIENCE**

THE BEST RANGE

AIT can meet all your needs by covering the widest range of induction and plastic welding products on the market.

- » From 3,5kW to 22,5kW
- » Easy to use and transport
- » Multifunctional technology
- » More than 10 types of usable tips
- » Liquid cooling circuit
- » Tailor-made customizations
- » Precision heating accessories*
- » Upgrades available
- » Integrated preventive maintenance software**
- » Wide range of options to ensure a continuous work cycle*



*UPON REQUEST

**LIMITED TO THE INDUSTRIAL/HEAVY DUTY LINE

ENVIRONMENT FIRST



Reduced environmental impact



No open flame



Plastic-free

PERSONALIZING YOUR PRODUCTS

Even after 20 years, at AIT we are still thinking about what we can do to meet our customers' needs on every occasion. To this end, we develop customized designs for our machines. In particular, customizations refer to:

- » Design
- » Optional
- » Accessories
- » Software
- » Hose package

Following a careful assessment of customers' requirements and the operations they intend to perform; our experienced staff will suggest the solution that best suits their needs.

UNIQUE BENEFITS



Plug & Play

All AIT induction machines feature the Plug & Play functionality. This allows them to be used without requiring the user to follow a specific installation or setup procedure. Once the machine is acquired, all that is needed to start using it is simply plugging it into a power outlet. This eliminates operational complications for the customer and reduces both time and training costs.



Autotuning

The unique Autotuning function developed by AIT is a special feature that allows the machine itself to quickly self-configure the electronics when using special tips, i.e. different from the standard range. As a result, there is no need for the user to perform any specific operation that requires the use of special components to be carried out.



ESP

AIT induction machines from the 'Industry & Heavy-Duty line' are equipped with Electronic Safety Protection (ESP) technology. This system is essential for detecting any electrical anomalies in the system, such as excessive voltage or power surges. In the event of a problem, thanks to ESP, the car will stop without suffering damage. An error will be displayed so that the fault can be repaired and regular operations can be resumed.

TOUCH CONTROL PANEL

The new AIT color touch display is available in 5" or 7" sizes on the Heavy Duty Inductor (HDI) line from 8kW up to 22,5kW.

The innovative and intuitive panel offers unique functionality to collect, monitor, and record all important working parameters and is compatible with optional accessories extras.

The power curve graph allows the best real-time monitoring of actual performance actual performance. Most settings and diagnostics can be accessed to recalibrate the electronics in case of special induction tips and offer the user multiple modes to alternately control the heating process.

INTEGRATED SOFTWARE

The panel can be connected via Wi-Fi to the local WLAN and registered in the Premium Care Platform, the innovative two-way communication platform that enables the machine to communicate remotely and optimize the service.



- » Constant pressure on the handle button
- » One-time pressure on the handle button for continuous heating (OPT): SHS (SMART HEATING SWITCH)
- » Constant or one-time pressure (when combined with SHS) on the foot pedal (OPT) as an alternative to the handle button
- » Timer setting (automatic stop)
- » Target temperature setting (automatic stop)

SERVICE

AIT has a wide network of dealers and service centers, ensuring not only the availability of spare parts but also fast and professional support for any request. Our qualified support team, backed by years of experience, is always ready to provide the best solution for you through:

- » Frequently asked questions
- » Troubleshooting videos
- » Calls and video calls
- » On-site inspections





AIT PREMIUM CARE REMOTE SERVICE

A revolutionary service solution that provides remote support for both dealers and users.

The machine communicates in real time with the distributor and manufacturer, reporting any technical errors that may require service.

Visiting a customer becomes easier when the issue is already diagnosed, allowing for a more efficient intervention.



INDUSTRY

100% INDUCTION

A COMBINATION OF EXCEPTIONAL BENEFITS

In industry induction is ideal for applications that complement welding. Here are some examples:

- » Minimally invasive thermal straightening
- » Rapid preheating upstream of the welding process
- » Bending
- » Tempering
- » Fitting

Additionally, the AIT industrial range includes a product specifically designed for copper brazing.

Brazing enables the creation of strong joints using the classic autogenous solder melt process. In this case, filler alloys are used, which melt at temperatures lower than the melting point of the base metals being joined.

From 8 to 22,5 kW

INDUSTRY



PATENTED

OPTIONALS



PEDAL



WI-FI



SHS

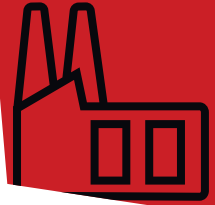


CUSTOMIZATION ON REQUEST



PERFECT FOR
VERY LONG DUTY CYCLES





HDI Giant 22.5 kW

ART - HDI 22.5K GIANT

EXCLUSIVE FEATURES





- » User-friendly 7" color touch control panel
- » Power from 16 to 23 kW
- » Dual 20L tank
- » Continuous mode - duty cycle > 80%
- » Interchangeable cooling tanks for temperature
- » **Ready to use**
- » **Heating time setting**

APPLICATIONS

HDI Giant heat inductors are ideal for a wide range of applications such as:

- » Unlocking bolts/nuts
- » Unlocking and replacing pins or bearings
- » Heating for straightening
- » Preheating before welding
- » Bending
- » Heat treatments

TECHNICAL SPECIFICATIONS

	850x920x1430h mm
	1000x1000x1580h mm
	200 kg
	Input power 22,5 kW - 32 A
IP	Protection degree IP21
	Protection fuses
	2 x 20 L tanks - Liquid cooling system
	2 x hydraulic heat exchanger with fan
	 Directives and certifications

INDUSTRY: THE COMPLETE RANGE

OTHER POWERS

HDI Giant 18 kW

ART - HDI 18K GIANT

HDI Giant 16 kW

ART - HDI 16K GIANT

INDUSTRY

OPTIONALS



PEDAL



WI-FI



SHS



CUSTOMIZATION ON REQUEST



PERFECT FOR WORKING
ON WIDE SURFACES





HDI Runner 18 kW

ART - HDI 18K RUNNER

EXCLUSIVE FEATURES


- » Power from 8 to 16 kW
- » Separate cooling unit
- » Portable control unit with 4,25 m inductor cables
- » Additional cooling unit with 10 m inductor cable
- » Designed for operations requiring particularly difficult access
- » **Ready to use**
- » **Heating time setting**

APPLICATIONS

HDI Giant heat inductors are ideal for a wide range of applications such as:

- » Loosening of bolts/nuts
- » Loosening and replacing pins or bearings
- » Heating for straightening
- » Pre-heating before welding
- » Bending
- » Heat treatments

TECHNICAL SPECIFICATIONS

	600x600x1140h mm / 500x250x280h mm
	800x1200x1580h mm
	140 kg + 13 kg
IP	Protection degree IP21
	Protection fuses
	20 L tank - Liquid cooling system
	Hydraulic heat exchanger with fan
	 Directives and certifications

INDUSTRY: THE COMPLETE RANGE



OTHER MODELS AVAILABLE

HDI Runner 16 kW

ART - HDI 16K RUNNER

HDI Runner 13 kW

ART - HDI 13K RUNNER



**CUSTOMIZATION
ON REQUEST**



PERFECT FOR COPPER BRAZING

BRAZING

SB 6KW 400 TC

ART - SB 6K400 TC

STRENGTHS

- » Silicon carbide (SiC) power device technology
- » New easy-to-use 5" color display
- » Interchangeable coils
- » Increased safety
- » No gas cylinders in the workshop
- » No naked flames



ACCESSORIES FOR BRAZING

ART - SB 1-2 / SB 1-4 / SB01 / SBR

Available sizes:

From 1/4" - 1/8" - 1/2" - 1"

Open (C-shaped) / coil closed

TECHNICAL SPECIFICATIONS



460x980x600h mm



800x850x1350h mm



110 kg



Input power 6 kW - 16 A



400V/3PH+T 50



Frequency level 180 kHz



8 m Electric cable



IP Protection degree IP21



Protection fuses



20 L tank - Liquid cooling system



Hydraulic heat exchanger with fan



Directives and certifications



HDI 22.5K400 TC

ART - HDI 22.5K400 TC

STRENGTHS

- » Autotuning
- » Electronic safety protection
- » Setting the heating temperature level
- » Easy-to-use 7" color touch control panel
- » 4,25 m inductor cable
- » 10+ alternative tips on request
- » Handle for handpiece included
- » **Ready to use** with tip ART - IND16kW/S
- » **Setting the heating time**

APPLICATIONS

The HDI 22.5K400 TC heat inductors are ideal for a wide range of applications such as:

- » Unlocking bolts/nuts
- » Unlocking and replacing pins or bearings
- » Heating for straightening
- » Preheating before welding
- » Bending
- » Heat treatments



**CUSTOMIZATION
ON REQUEST**

OPTIONALS



PEDAL



WI-FI



SHS

»
**PERFECT FOR
INDUSTRIAL PROCESSES**

TECHNICAL SPECIFICATIONS



600x600x140h mm



800x850x1350h mm



130 kg



Input power 2.5 kW - 32 A



Electrical connection IEC60309 400V/3PH+T 50



Frequency level 15-30 kHz



8 m Electric cable



Protection degree IP21



Protection fuses



20 L tank - Liquid cooling system



Hydraulic heat exchanger with fan



**UK
CA**

Directives and certifications

INDUSTRY



OPTIONALS



PEDAL



WI-FI



SHS



CUSTOMIZATION ON REQUEST



PERFECT FOR
HEAVY DUTY JOBS



HDI 18K400 TC 18 kW

ART - HDI 18K400 TC

STRENGTHS













- » Autotuning
- » Electronic safety protection
- » Heating temperature level setting
- » Easy-to-use 5" color touch control panel
- » 4,25 m inductor cable
- » 10+ alternative tips on request
- » Handle for handpiece included
- » **Ready to use** with tip ART - IND16kW/S
- » **Heating time setting**

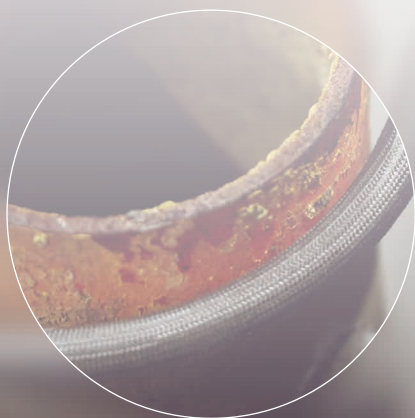
APPLICATIONS

The HDI 18K400 TC heat inductors are ideal for a wide range of applications such as:

- » Unlocking bolts/nuts
- » Unlocking and replacing pins or bearings
- » Heating for straightening
- » Preheating before welding
- » Bending
- » Heat treatments

TECHNICAL SPECIFICATIONS

	550x560x1009h mm
	800x850x1350h mm
	130 kg
	Input power 18 kW - 32 A
	Electrical connection IEC60309 400V/3PH+T 50
	Frequency level 15-30 kHz
	8 m Electric cable
IP	Protection degree IP21
	Protection fuses
	20 L tank - Liquid cooling system
	Hydraulic heat exchanger with fan
	 Directives and certifications





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HEAVY DUTY

100% INDUCTION EXPERIENCE

A COMBINATION OF EXCEPTIONAL AND UNIQUE BENEFITS

In many cases, bolts, nuts, and other mechanical parts cannot be heated with the even targeted use of the flame because you are working in the proximity of plastic material or underbody protections that risk catching fire, perhaps near fuel pipes. Of course, it is possible to do it instead with the induction heater and in an even faster way.

From 8 kW to 18 kW

HEAVY DUTY



OPTIONALS



PEDAL



WI-FI



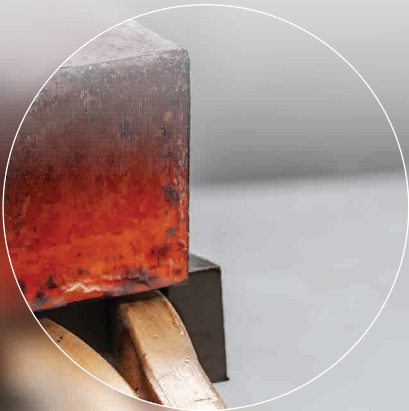
SHS



CUSTOMIZATION ON REQUEST



PERFECT FOR
HEAVY DUTY JOBS





HDI 18k400 TC 18 kW

ART - HDI 18K400 TC

STRENGTHS

- » Autotuning
- » Electronic safety protection
- » Heating temperature level setting
- » Easy-to-use 5" color touch control panel
- » 4,25 m inductor cable
- » 10+ alternative tips on request
- » **Ready to use** with tip ART - IND16kW/S
- » **Heating time setting**

APPLICATIONS

The HDI 18K400 TC heat inductors are ideal for a wide range of applications such as:

- » Unlocking bolts/nuts
- » Unlocking and replacing pins or bearings
- » Heating for straightening
- » Preheating before welding
- » Bending
- » Heat treatments

TECHNICAL SPECIFICATIONS

	550x560x1009h mm
	800x850x1350h mm
	130 kg
	Input power 18 kW - 32 A
	Electrical connection IEC60309 400V/3PH+T 50
	Frequency level 15-30 kHz
	8 m Electric cable
IP	Protection degree IP21
	Protection fuses
	20 L tank - Liquid cooling system
	Hydraulic heat exchanger with fan
	Directives and certifications

HEAVY DUTY: THE COMPLETE RANGE



OTHER MODELS AVAILABLE

Variation between models

HDI 16K400 TC 16 kW

ART - HDI 16K400 TC

HDI 13K400 TC / HDI 13K230 TC 13 kW

ART - HDI 13K400 TC / ART - HDI 13K230 TC

230 V

HDI 11K400 TC / HDI 11K230 TC 11 kW

ART - HDI 11K400 TC / ART / ART - HDI 11K230 TC

230 V - 90 kg

HDI 8K400 TC / HDI 8K230 TC 8 kW

ART - HDI 8K400 TC / ART - HDI 8K230 TC

230 V - 90 kg





CAR WORKSHOP WITH WHEELS

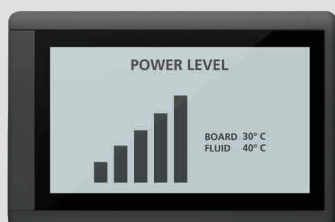
100% INDUCTION EXPERIENCE

A COMBINATION OF EXCEPTIONAL AND UNIQUE BENEFITS

In many cases, bolts, nuts and other mechanical parts cannot be heated with the even targeted use of the flame because you are working in the proximity of plastic material or underbody protections that risk catching fire, perhaps near fuel pipes. Of course, it is possible to do it instead with the induction heater and in an even faster way.

From 4 kW to 6 kW

WITH WHEELS



LCD DISPLAY

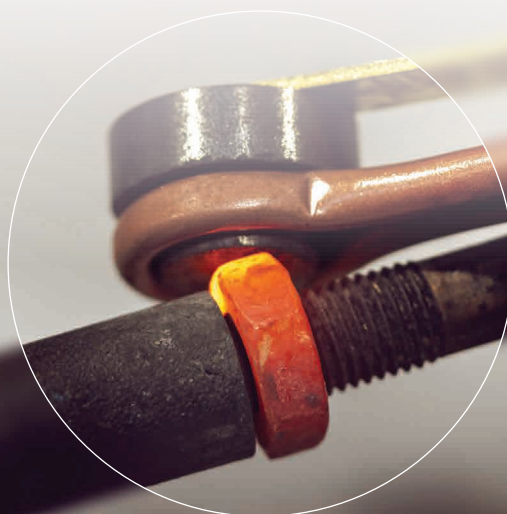
Increase/decrease power, temperature coolant and alarms



CUSTOMIZATION ON REQUEST



PERFECT FOR
COMMERCIAL VEHICLES



IT 6k400 LCD

ART - IT 6K400 LCD

STRENGTHS














- » Power level setting (kW)
- » Multiple temperature indicator system (°C/°F)
- » LCD panel 5 power levels (Keyboard on request)
- » Inductor cable 3,0 m
- » Alternative tips on request
- » **Ready to use** with tip ART - IND 5kW/S06

APPLICATIONS

IT 6K400 LCD heat inductors are ideal for a wide range of applications such as:

- » Loosening bolts/nuts
- » Osening and replacing pins or bearings
- » Bending
- » Removing suspensions, shock absorbers
- » Straightening crankshafts

TECHNICAL SPECIFICATIONS

-  400x340x1000h mm
-  800x850x1280h mm
-  66 kg
-  Input power 6 kW - 16 A
-  Electrical connection IEC60309 400V/3PH+T 50
-  Duty cycle 30 min* (* ± 5% ambient temperature at maximum power)
-  Frequency level 15-30 kHz
-  8 m Electric cable
- IP** Protection degree IP21
-  Protection fuses
-  20 L tank - Liquid cooling system
-  Hydraulic heat exchanger with fan
-   Directives and certifications

CAR WORKSHOP: THE COMPLETE RANGE



OTHER MODELS AVAILABLE

Variation between models

IT 5k400 LCD 5 kW

ART - IT 5K400 LCD

230 V

IT 5k230 LCD 5 kW

ART - IT 5K230 LCD

5 kW - 230 V

IT 5k230 LCD Lite 5 kW

ART - IT 5K230 KB Lite

5 kW - 230 V - 50 kg - 800x800x1280h mm

IT 4k230 LCD 4 kW

ART - IT 4K230 LCD

4 kW - 230 V - 50 kg - 800x800x1280h mm



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CAR WORKSHOP PORTABLE

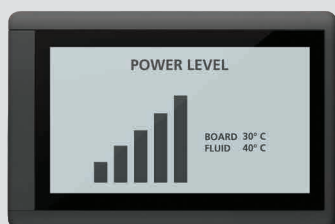
100% INDUCTION EXPERIENCE

A COMBINATION OF EXCEPTIONAL AND UNIQUE BENEFITS

In many cases, bolts, nuts and other mechanical parts cannot be heated with the even targeted use of the flame because you are working in the proximity of plastic material or underbody protections that risk catching fire, perhaps near fuel pipes. Of course, it is possible to do it instead with the induction heater and in an even faster way.

From 3,5 kW

PORTABLE



LCD DISPLAY

Increase/decrease power, temperature coolant and alarms

OPTIONALS



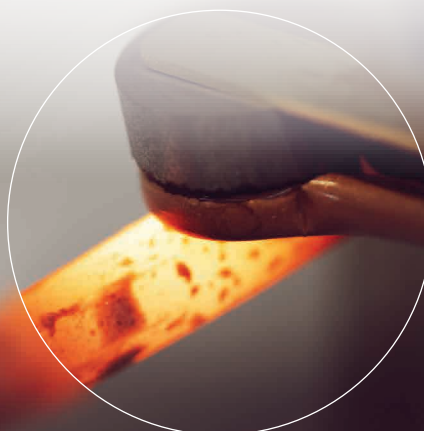
TROLLEY



CUSTOMIZATION ON REQUEST



PERFECT FOR
CAR AND MOTORBIKES



IT 3.7K230 LCD EVO

ART - IT 3.7K230 LCD EVO

STRENGTHS

- » Plug & play
- » External cap for cooling liquid refill
- » Easy Handling

NEW














- » High efficiency with 3,7kW
- » Case design and graphics
- » LCD Keyboard
- » New hose package

APPLICATIONS

The IT 3.7K230 LCD EVO induction heater is ideal for a wide range of applications such as:

- » Unlocking of steering axis
- » Unlocking of bolts / nuts
- » Unlocking and replacing pins or bearings
- » Bending
- » Removal of suspension, shock absorber and muffler
- » Crankshaft straightening

TECHNICAL SPECIFICATIONS

-  500x250x280h mm
-  710x410x610h mm
-  13 kg
-  Input power 3,7 kW - 16 A
-  Electrical connection IEC60309 230V/1PH+T 50
-  Frequency level 15-30 kHz
-  Duty cycle 9 min* (* ± 5% Ambient temperature at maximum power)
-  2,60 mt Power cable - Hose package 3 mt
- IP** IP21 protection rating
-  Protection fuses
-  2 L tank - Liquid cooling system
-  Hydraulic heat exchanger with fan
-   Directives and certifications

GARAGE LINE: THE COMPLETE RANGE



OTHER MODELS AVAILABLE



IT 3.5K230 LCD
IT 3.5K230 LCD



IT 3.5K230 LCD Lite
IT 3.5K230 LCD Lite

Variation between models

8 kg - 1 L tank
dimensions 195x360x300h mm - packagin 340x430x320h mm



The background is a dark, grayscale image of industrial machinery. A prominent red shape, resembling a stylized tip or a part of a machine, is located in the upper left corner. Several thin, curved lines in red and white sweep across the upper half of the image, adding a dynamic, graphic element to the composition.

ACCESSORIES

100% INDUCTION EXPERIENCE

ESSENTIAL COMPONENTS FOR THE OPERATION
OF INDUCTION MACHINES

A wide range of tips further improves versatility and performance, using the most appropriate tip shape is essential. Many conditions of use of a tip require a specific shape or in many cases an ad hoc customization.

AIT offers customized developments on request and with dedicated tests.

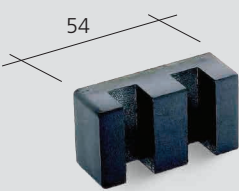
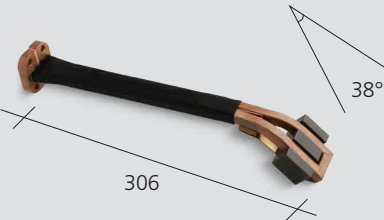
HEADS

INDUSTRY AND HEAVY-DUTY SERIES

Standard head

Ferrites

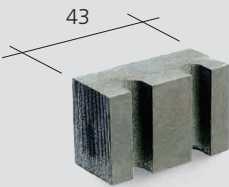
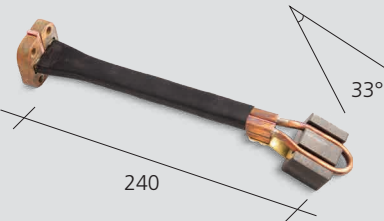
Available for:



HDI 22.5K400 TC
HDI 18K400 TC
HDI 16K400 TC
HDI 16K400 TC

ART - IND-16kW/S

ART - IND-16kW/S 01



HDI 13K400 TC
HDI 13K230 TC
HDI 11K400 KB
HDI 11K230 KB

ART - IND-11kW/M

ART - IND-11kW/M 01



HDI 13K400 TC
HDI 13K230 TC
HDI 11K400 KB
HDI 11K230 KB

ART - IND-11kW/S 04

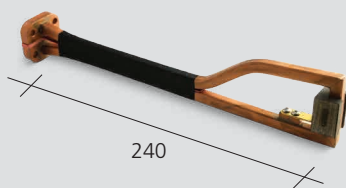
ART - IND-5kW/S 04.1



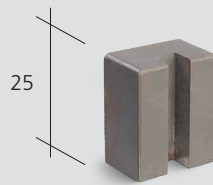
Standard heads

Ferrites

Available for:

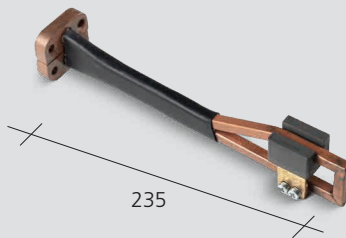


ART - IND -11kW/V NT

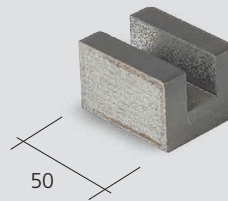


ART - IND-11kW/V NT.1

HDI 22.5K400 TC
HDI 18K400 TC
HDI 16K400 TC
HDI 13K400 TC
HDI 13K230 TC
HDI 11K400 KB
HDI 11K230 KB

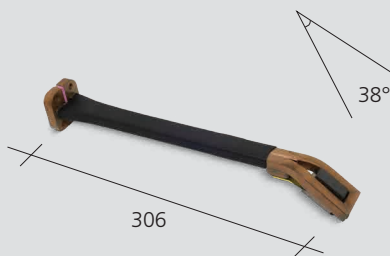


ART - HDI-LS

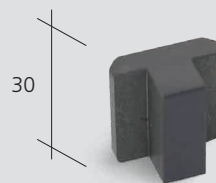


ART - FHDI-LS

HDI 18K400 TC
HDI 16K400 TC
HDI 16K400 KB



ART - IND-16kW/T



ART - IND-16 kW/T 01

HDI 22.5K400 TC
HDI 18K400 TC
HDI 16K400 TC
HDI 16K400 KB

**AIT offers customized developments on request
and with dedicated tests.**

SPECIAL HEAD AND COILS INDUSTRY AND HEAVY-DUTY SERIES

Special head

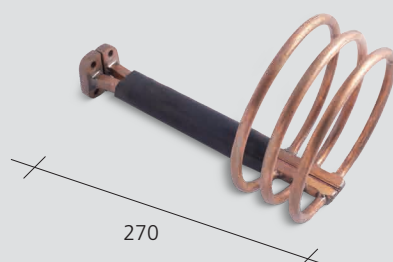
Available for:




da TS 20
a TS 180 mm

HDI 21K400 TC
HDI 18K400 TC
HDI 16K400 TC
HDI 16K400 KB

ART - HDI TS20 / TS 180




da TT 60
a TT 140 mm

HDI 21K400 TC
HDI 18K400 TC
HDI 16K400 TC
HDI 16K400 KB

ART - HDI TT 60 / TT 140




68 mm

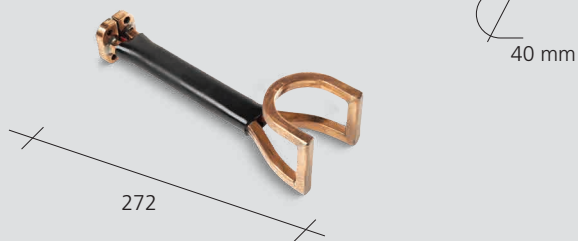
HDI 13K400 TC
HDI 13K230 TC
HDI 11K400 KB
HDI 11K230 KB

ART - HDI U 02



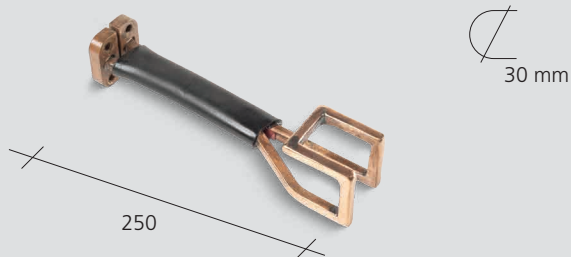
Special head

Available for:



HDI 23K400 TC
HDI 22.5K400 TC
HDI 18K400 TC
HDI 16K400 TC
HDI 16K400 KB

ART - HDI U 01



HDI 16K400 TC
HDI 16K400 KB

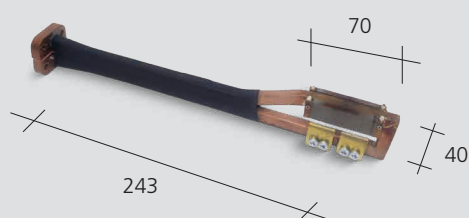
ART - IND -16kW/ 3

**AIT offers customized developments on request
and with dedicated tests.
Round tips can have customized diameters.**

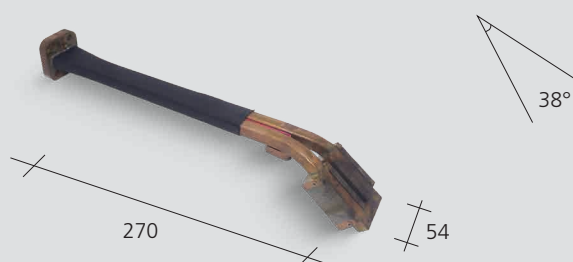
HEAD FOR INDUSTRY LAMELLAR SERIES

Special head

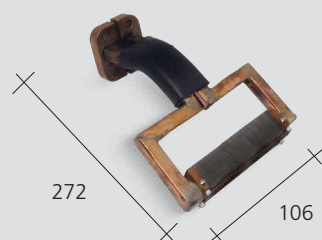
Articles available for the
industry line



ART - HDI - HDI LS LAM



ART - HDI S LAM



ART - HDI S104-55 LAM

AIT offers customized developments on request
and with dedicated tests.



HEADS
CAR WORKSHOP

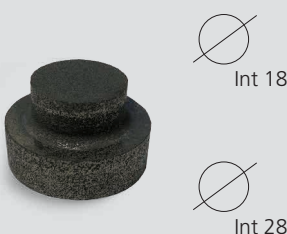
Special head

Ferrites

Available for:



ART - IND-5kW/S06

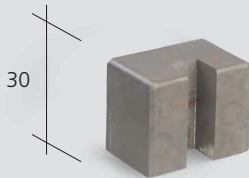


ART - IND-5kW/S06.1

HDI 8K400 TC
IT 6K400 LCD
IT 5K400 LCD
IT 5K230 LCD
IT 5K230 LCD Lite
IT 4K230 LCD
IT 3.5K230 LCD



ART - IND-5kW/V03

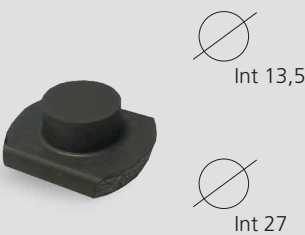


ART - IND-5 kW/V03.1

HDI 8K400 TC
IT 6K400 LCD
IT 5K400 LCD
IT 5K230 LCD
IT 5K230 LCD Lite
IT 4K230 LCD
IT 3.5K230 LCD



ART - IND-5Kw/S03V

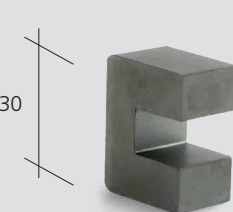


ART - IND-5kW/S03V.1

HDI 8K400 TC
IT 6K400 LCD
IT 5K400 LCD
IT 5K230 LCD
IT 5K230 LCD Lite
IT 4K230 LCD
IT 3.5K230 LCD



ART - IND-5kW/S03.1



ART - IND-5 kW/V01



SPECIAL HEAD CUSTOM

Many industrial applications have specific needs and often require the specific development of special tips that AIT is able to design, develop, and test to measure.

The most frequent applications that require such custom development include, for example:

- » Fitting pipes of various diameters
- » Heating of areas that are difficult to access
- » Unlocking bushings of various sizes
- » Bending beams of different sizes
- » Preheating of irregularly shaped metal parts



LRA COOLANT

Liquid for welding circuits, cooling systems, and scientific instrumentation. Its formula allows it to work at temperatures from -20°C to +120°C as a protective and permanent antifreeze mixture with very low conductivity, favoring the lubrication of rotating mechanisms. It contains corrosion inhibitors that protect the cooling circuit and do not attack metals (Copper, Steel, Aluminum, Alloys, etc.) according to Test STM 1384.

Compatible with all plastic materials and elastomers (PP, PVC, HDPE, EPDM, NBR, etc.). Its ingredients are listed according to Food and Drug Administration (FDA) Part 182 - Part 184.



ART - LRA20 (20 L)
ART - LRA5 (5 L)


HOW TO USE

Add the product without diluting it in the cooling circuit. Before filling and starting up, it is important to wash the machine's hydraulic circuits with water and compressed air to eliminate processing residues in new systems and sediments in systems that have already been used.

Do not mix with other antifreeze and empty the cooling circuits of equipment that contain other types of antifreeze.

Base	Low-pour refrigerating polymers
Appearance	Colorless and odorless liquid
Specific weight	1.030 g/cm ³
pH	7/8
Viscosity	<100 cP
Refractive index	1.369 nD (20°C)
Boiling point	102°C
Specific heat	3,9 kJ/kg K
Thermal conductivity	0.45 W/m k (25°C)
Dissolved chlorides	<2 ppm
Dissolved sulfide	<2 ppm
Hardness	<0.1 mol/m ³
Biodegradability	Complete
Foaming power	None
Solubility	Soluble in water in any ratio



The background is a dark, grayscale photograph of an industrial environment. In the foreground on the left, a large piece of industrial equipment is visible, featuring the 'cita' logo and the text 'automotive induction technologies'. In the background, another similar machine and a metal cart are visible. Overlaid on the top half of the image are several decorative lines: a thick red line that starts at the top left and curves towards the right, and two thinner, curved lines in black and light gray that sweep across the upper portion of the frame.

OPTIONAL ACCESSORIES

100% INDUCTION EXPERIENCE

A WIDE RANGE OF ITEMS FOR MAXIMUM EFFICIENCY
OF YOUR MACHINE



THE HEAT SENSOR

Ideal for targeted heating and precise operations.

INFRARED - IRT: Equipped with an electronic laser integrated into the head, it detects temperatures up to 1000°C on metals, oxides, and ceramics.

TOUCH - TCS: The contact sensor detects the temperature of the object up to 900°C, ensuring that both surfaces are in thermal equilibrium without heat flow.

» From 8 to 22,5kW, 400V with Touch Control (TC) panel, suitable for industry and Heavy Duty applications.

ART - IRT



FOOT SWITCH

The integrated foot switch is highly functional for operations requiring prolonged dispensing time, as it allows the machine to operate continuously as long as it is pressed.

» From 4kW to 22,5kW Giant and Runner range

ART - PX-10110



HANDLE FOR TIP

To facilitate the grip of the handpiece, AIT offers an optional additional handle that can be attached to it. This handle can be integrated into the "Heavy Duty" range machines, as they feature a heavier handpiece that may be difficult to use for extended periods.

Machines with a power of 22,5 kW or higher include this handle as standard.

» from 11kW to 18kW + Giant and Runner (with power below 22,5kW)

ART - HANDLE23



TROLLEY

The four-wheel trolleys make it easier to use smaller machines, allowing them to be transported wherever needed. The two lower trays are highly functional for storing various machine accessories or work tools.

ART - THA05
255x420x710h mm
ART - THA04
490x360x780h mm

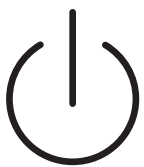


LCD DISPLAY

Thanks to the digital interface, the liquid crystal display (LCD) enhances communication with the machine. It allows users to select the desired heat output levels and constantly monitor the temperature of the cooling liquid.

» Cart-mounted and portable auto workshop

ART - IND-LCD



SMART HEATING SWITCH (SHS)

The integrated smart heating switch is ideal for those seeking automation. Once activated, it allows the machine to deliver a continuous heat flow without the need to keep pressing the standard dispensing button located on the tip.

» From 8 to 22,5kW
+ Giant and Runner range

ART - SHS



AIT PREMIUM CARE/WI-FI

A revolutionary service that remotely supports both the dealer and the machine user, offering the following benefits:

- » Technical supervision of HDI machines with a touch control panel
- » Remote and real-time visibility of all key machine parameters
- » Applicable only to the HDI line

- » Data storage and download capability to monitor working times and consumption
- » Remote updates for software, firmware, and machine power (by the end of 2024)
- » Real-time communication for technical interventions requiring machine service support

ART - WIFI CARE



CARDBOARD PACKAGING & CUSTOM WOODEN PALLET

All our machines are packed in very sturdy cardboard boxes and then placed on special wooden pallets that ensure a stable base during transport.

ART - IND-5kW/IMB.01
ART - IND-11kW/IMB.01
ART - Giant Case





BODYSHOP

100% INDUCTION EXPERIENCE

THE POWER OF INDUCTION FOR BODYWORK REPAIR

Bodywork:
Induction heating system
that speeds up and simplifies
the removal of glued parts
(glass, rear windows, plastics,
adhesives, headliners, internal
and external coverings, etc.) or
blocked parts (bolts, bearings,
gears, etc.) of vehicles. Suitable
for bodywork, guarantees great
savings in intervention times.

IT ALSO WORKS WITH
ALUMINUM.



»
PERFECT FOR
BODYSHOP REPAIRS

IT COMBO 5K400 LCD

ART - IT COMBO 5K All rounder

STRENGTHS















- » User friendly LCD panel with 5 heat output levels
- » Power board unit
- » Hydraulic radiator group
- » Inductor transformer cable 3,0 m
- » Foot pedal accessory with cable 2,2 m
- » **Plug and Play** with ART - IND-5kW/S06 inductor head

APPLICATIONS

Combo 5K400 LCD heat inductors are ideal for a wide range of applications such as:

- » Heated rear windows/side windows
- » Car sunroof glass
- » Moldings
- » Adhesives and stickers without residues paint
- » Painting
- » Sealants and/or sound insulation materials
- » Tar liner
- » Structural glue

TECHNICAL SPECIFICATIONS

-  400x340x1000h mm
-  800x800x1280h mm
-  66 kg
-  Input power 5 kW - 16 A
-  400V/3PH+T 50 - 230V/1 (or 3PH)
-  Frequency level 15-30 kHz
-  Duty cycle 30 min*(* ± 5% ambient temperature at maximum power)
-  8 m Electric cable
-  IP Protection degree IP21
-  Protection fuses
-  Tanica 20 L - Sistema di raffreddamento a liquido
-  Hydraulic heat exchanger with fan
-   Directives and certifications



COMBO 5K SUITE

In addition to the "All-rounder" model, the Combo 5k400 is available in different combinations according to the different accessories included.



All rounder

iT 5K400 LCD
tip + heating glove + glass remover + dent repair

ART - IT COMBO 5K All rounder

Classic

iT 5K400 LCD
tip + heating glove + windshield remover

ART - IT COMBO 5K Classic

Repair

iT 5K400 LCD
tip + windshield remover

ART - IT COMBO 5K Repair

Basic

iT 5K400 LCD
tip

ART - IT COMBO 5K Basic



COMBO 3.5K 230 LCD

ART - IT COMBO

STRENGTHS

- » User friendly LCD panel with 5 heat output levels
- » Power board unit
- » Hydraulic radiator group
- » Inductor transformer cable 3,0 m
- » Foot pedal accessory with cable 2,2 m
- » **Plug and Play** with ART - IND-5kW/S06 inductor head

APPLICATIONS

Combo 5K400 LCD heat inductors are ideal for a wide range of applications such as:

- » Heated rear windows/side windows
- » Car sunroof glass
- » Moldings
- » Adhesives and stickers without residues paint
- » Painting
- » Sealants and/or sound insulation materials
- » Tar liner
- » Structural glue

OPTIONALS



TROLLEY

»
PERFECT FOR
BODYSHOP REPAIRS

TECHNICAL SPECIFICATIONS



485x330x405h mm



700x400x500h mm



12 kg



Input power 3,5 kW - 16 A



230V/1PH+T 50



Frequency level 15-30 kHz



Duty cycle 9 min*(* ± 5% ambient temperature at maximum power)



2 m Electric cable



IP Protection degree IP21



Protection fuses



2 L tank - Liquid cooling system



Hydraulic heat exchanger with fan



Directives and certifications



COMBO SUITE

In addition to the "All-rounder" model, the Combo 5k400 is available in different combinations according to the different accessories included.



All rounder

IT COMBO
tip + heating glove + glass remover + dent repair

ART - IT COMBO All rounder

Classic

IT COMBO
tip + heating glove + windshield remover

ART - IT COMBO Classic

Repair

IT COMBO
tip + windshield remover

ART - IT COMBO Repair

Basic

IT COMBO
tip

ART - IT COMBO Basic



PATENTED

New air hose package

OPTIONALS



TROLLEY

»
PERFECT FOR
BODYSHOP REPAIRS

I - DUCTOR 4.0

I-Ductor 4.0

STRENGTHS

- » 7x4 cm LCD digital control display
- » Selection knob to adjust the intensity of the power
- » Power supply unit
- » Pedal accessory with 2,2 cable
- » Glass removal accessory with 2,2 cable
- » Heating glove accessory with 2,2 m cable
- » Nut and bolt heating with 2,2 m cable
- » Dent removal accessory with 2,2 m cable

APPLICATIONS

I - Ductor 4.0 heat inductors are ideal for a wide range of applications such as:

- » Rear window/side window heaters
- » Glass car roofs
- » Moldings
- » Stickers and logos
- » Painting
- » Sealants and/or sound insulation materials
- » Tar
- » Structural glue

TECHNICAL SPECIFICATIONS



195x360x300h mm



340x430x320h mm



12 kg



Input power 3 kW - 16 A



230V/1PH- 50/60 hz



Frequency level 19 kHz



3 m Electric cable



IP Protection degree IP23



Protection fuses



Directives and certifications



I - DUCTOR 4.0 SUITE

I - DUCTOR 4.0 is available in different combinations depending on the different ACCESSORIES included.



Workshop Basic

Ductor 4.0 + bolt heater

ART - I-ductor WB

Bodyshop Basic

Ductor 4.0 + windshield remover

ART - I-ductor BS

ACCESSORIES OPTIONAL

For the following models

IT COMBO 5K400 LCD

COMBO

I-DUCTOR 4.0



AIR MANIPULATOR
ART - HPR 4.0



COILS ADAPTORS
ART - ED - 4.0



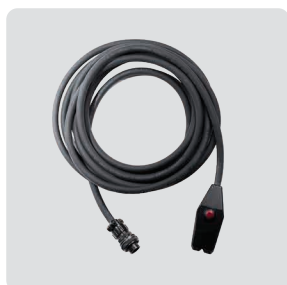
ASSORTED COILS
ART - ED-25S + ED-20
+ ED-PC



PLASTIC WEDGE
ART - MGGM-466/1



HEATED GLOVE
ART - IND/GLOVE.C



BUBBLE REMOVER
ART - DENT-001.C



GLASS REMOVER
ART - IND/GLASS.C



BOLT HEATER
ART - IND/BULL 4.0



FOOT SWITCH
ART - IND/PNEUM



EASY DENT

ART - DENT-01

STRENGTHS

- » Selector control knob to adjust the intensity of the power
- » Power electronic card
- » Small dent removal accessory, 4 m cable

APPLICATIONS

Easy Dent heat inductors are ideal for a wide range of applications such as:

- » Small dent removal
- » Perfect as a finishing tool for the PDR technician

OPTIONALS



TROLLEY



PERFECT FOR HAIL DAMAGE



BUBBLE REMOVER INCLUDED

ART - DENT-001.ED

TECHNICAL SPECIFICATIONS



200x320x175h mm



290x400x280h mm



6 kg



Input power 1 kW- 16 A



Electrical connection IEC60309 230V/1PH - 50/60



Frequency level 50-60 kHz



2 m Electric cable



IP Protection degree IP23



Protection fuses



Directives and certifications





PLASTIC REPAIR

100% INDUCTION EXPERIENCE

A WIDE RANGE OF PRODUCTS TO MEET ALL THE WORKSHOP NEEDS

The new plastic welding machine with an automatic nitrogen generation membrane is equipped with a new color touch panel and a series of innovative features that make it extremely easy to use. The display offers the possibility of switching from normal air to nitrogen, where in both cases it is possible to adjust the air flow on multiple levels and set the working temperature.

PLASTIC REPAIR

**NITROGEN GENERATOR
INCLUDED
BI GAS EVO TC MG**



» PERFECT FOR
PLASTIC REPAIR





BI GAS EVO TC MG

ART - BI-GAS EVO TC MG

STRENGTHS

- » Temperature control
- » Preset temperatures for different plastics
- » Thermal protection
- » User interface with touchscreen
- » Finest air/gas flow setting
- » cylinder compartment (not included)
- » Accessory holder
- » Air gun cable 1,8 m
- » Heating gun cable 2 m
- » **Air temperature automatically reset upon external temperature variations**
- » Triangular cutter and roller included

APPLICATIONS

BI-GAS EVO Nitrogen Welder is a welding system that allows you to work comfortably with nitrogen.

Why nitrogen?

- » Permanent welding
- » No contamination, no smoke, no fire, no oxidation
- » Maximum strength

Features a gas welding gun, light and easy to handle, for fast and safe operation with Nitrogen (N₂).
In addition, the machine is complete with heat gun for staple applications.

TECHNICAL SPECIFICATIONS

	490x420x920h mm
	800x800x930h mm
	33 kg
	Electrical connection IEC60309 - 16 A
	230V/1PH+T 50/60
	3 m Electric cable
	Protection degree IP21
	 Directives and certifications

PLASTIC REPAIR: THE COMPLETE RANGE



OTHER MODELS AVAILABLE

BI GAS EVO TC

ART - BIGAS VO TC

Models available

Generator not included - 30 kg

BI GAS EVO SGT LCD

ART - BIGAS LCD

LCD display - 30 kg



OPTIONALS



TROLLEY

»
PERFECT FOR
PLASTIC REPAIR

SGS

ART - SGS

STRENGTHS

- » Operating temperature adjustment
- » Thermal protection
- » User interface with LCD
- » 1,8 m air gun cable
- » 2 m heating gun cable
- » Triangular cutter and roller included
- » **Automatic air temperature recovery following changes in the external temperature**

APPLICATIONS

SGS is the welding system that allows you to work with air in total comfort and efficiency.

Equipped with a light and easy-to-handle welding gun, for quick and safe operation.

In addition, the machine is complete with a heat gun for staple applications.

You can easily repair car bumpers, plastic parts and interior parts.

TECHNICAL SPECIFICATIONS



195x360x300h mm



400x580x310h mm



6 kg



Electrical connection IEC60309 - 16 A



230V/1PH+T 50/60



Frequency level 15-30 kHz



3 m Electric cable



Protection degree IP21



Directives and certifications



HOT AIR

ART - WELDER/05

STRENGTHS

- » Compact and portable unit
- » Digital LCD display with backlight, shows the working temperature (150-480°)
- » Air flow control knob
- » Heat LED indicator
- » Power switch
- » Power supply
- » Thermocouple temperature sensor
- » Diaphragm air pump
- » Air nozzle
- » Gun holder

APPLICATIONS

HOT AIR is the welding system that allows you to work on a wide range of applications such as:

- » Car bumpers
- » Plastic parts
- » Interior parts

OPTIONALS



TROLLEY

»
PERFECT FOR
PLASTIC REPAIR

TECHNICAL SPECIFICATIONS

	185x240x140h mm
	420x280x340h mm
	2,5 kg
	Electrical connection IEC60309 - 320 kW 16 A
	230V/1PH+T 50/60
	Frequency level 15-30 kHz
	1,5 m Electric cable
IP	Protection degree IP21
	Directives and certifications



»
PERFECT FOR
STAPLES

EASY FIX

ART - HTS-01

STRENGTHS

- » Compact heating gun
- » Power supply
- » Transformer
- » Power adjustment knob with 3 levels
- » Can be used with corner, wave, and corrugated staples (total 100 pcs. Supplied)
- » Gun cable 1,5 m

EASY FIX is the welding system that allows you to work on a wide range of applications



INCLUDING 100 pcs.

TECHNICAL SPECIFICATIONS



160x150x250h mm



160x370x160h mm



1 kg



Electrical connection IEC60309 - 16 A



230V/1PH+T 50/60



1,5 m Electric cable



IP Protection degree IP21



Directives and certifications



MINI FIX

ART - HTS-01/MINI



STRENGTHS

- » Compact heating gun
- » Can be used with corner, wavy and corrugated staples (not supplied)
- » Gun cable 2,5 m


APPLICATIONS

MINI FIX is the welding system that allows you to work on a wide range of applications, such as:

- » Car bumpers
- » Plastic parts, such as lamp supports
- » Supports for engine parts
- » Internal plastic parts, etc.

»
**PERFECT FOR
STAPLES**

TECHNICAL SPECIFICATIONS

	170x90x80h mm
	160x370x160h mm
	0,1 kg
	Electrical connection IEC60309 - 16 A
	230V/1PH 50/60
	1,5 m Electric cable
	IP Protection degree IP21
	Directives and certifications

PLASTIC REPAIR: OUR RANGE



BI GAS EVO



SGS



HOT AIR



EASY FIX



MINI FIX



ACCESSORIES FOR PLASTIC WELDING



GUN EASY FIX
ART - HST-01/ MAN



ROLLER
ART - WELD/R



TRIANGULAR CUTTER
ART - WELD/T

INCLUDED FOR THE FOLLOWING MACHINES:

» **BI GAS EVO TC MG**

INCLUDED FOR THE FOLLOWING MACHINES:

» **BI GAS EVO TC MG**
» **BI GAS EVO TC**
» **BI GAS SGT LCD**
» **SGS**
» **HOT AIR**

INCLUDED FOR THE FOLLOWING MACHINES:

» **BI GAS EVO TC MG**
» **BI GAS EVO TC**
» **BI GAS SGT LCD**
» **SGS**
» **HOT AIR**

ON REQUEST: STAPLES AND PLASTIC STRIPS

Wave and corrugated staples
White, black and different sized plastic strips
(also available in: pe/abs/tpo/pp-epdm)





»
PERFECT FOR
PLASTIC REPAIR
AS FIRST SYSTEM

ULTRAWELD

ART - ULTRAWELD1S

STRENGTHS

- » Adjustable operating times
- » Touch control user interface
- » Accessory support
- » 1,1 m gun cable
- » 1 75 mm 12-pin titanium sonotrode
- » 1 2,5 mm Allen key
- » 1 threaded grub screw

APPLICATIONS

ULTRAWELD is the ultrasonic plastic welding system that allows you to repair plastics with the same technology used in original equipment for car manufacturing.

Repair of:

- » Bumpers
- » Bumper masks
- » Interior door trim
- » Bumper parking sensor holders
- » BSD brackets
- » Headlight brackets
- » Plastic rivets



**INCLUDING 75 MM 12-PIN SONOTRODE KEY
AND ALLEN WRENCH**

ART - U-985001

TECHNICAL SPECIFICATIONS



490x340x830h mm



800x800x1280h mm



40 kg



Input power 800 W - 16 A



230V/1PH- 50/60 Hz



Frequency level 40 kHz



8 m Electric cable



IP Protection degree IP23



Protection fuses



Directives and certifications



ULTRAWELD SONOTRODES



SONOTRODE 12-PIN 75 mm
ART - U-985001



SONOTRODO 12-PIN 130 mm
ART - U-985004



SONOTRODE WITH 3 SPHERICAL GROOVES 75 mm
ART - U-985002



SONOTRODE WITH 3 SPHERICAL GROOVES 130 mm
ART - U-985005



SONOTRODE WITH KNURLING 75 mm
ART - U-985001



SONOTRODE WITH KNURLING 130 mm
ART - U-985001



**SONOTRODE WITH ENGRAVING
FOR ANGLE REPAIR**
ART - U-985008



SONOTRODE WITH KNURLING 130 mm
ART - U-995001

SUMMARY

AIT PRODUCTS



INDUSTRY

HDI Giant 22.5 kW
HDI Giant 18 kW
HDI Giant 16 kW



HDI Runner 18 kW
HDI Runner 16 kW
HDI Runner 13 kW



SALDOBRASATURA
SB 6kW 400 TC



HDI 22.5K400 TC



HDI 18k400 TC



HDI 18k400 TC
HDI 16K400 TC
HDI 13K400 TC
HDI 13K230 TC
HDI 11K400 TC
HDI 11K230 TC
HDI 8K400 TC
HDI 8K230 TC

HEAVY DUTY



CAR WORKSHOP WITH WHEELS

IT 6k400 LCD
IT 5k400 LCD
IT 5k230 LCD
IT 5k230 LCD Lite



CAR WORKSHOP PORTABLE

IT 3.7K230 LCD EVO
IT 3.5K230 LCD
IT 3.5K230 LCD Lite



BODYSHOP

IT Combo 5K400 LCD



COMBO 3.5K



I-DUCTOR 4.0



EASY DENT



PLASTIC REPAIR

BI GAS EVO TC MG
BI GAS EVO TC
BI GAS EVO SGT LCD
BI GAS EVO TC



SGS



HOT AIR



EASY FIX



MINI FIX



ULTRAWELD



IT 2025 - A

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The general conditions of sale and product guarantees are available on our website at the page.

www.ait-induction.com/terms-and-conditions

KEY



Machine dimensions



Packaging dimensions



Weight



Schuko power plug



Voltage



Duty cycle



Frequency level



Power cable length



Protection rating



Protective fuses



Tank capacity



Hydraulic heat exchanger with fan



Directives and certifications



nit
automotive induction technologies





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