

## INDUCTION INNOVATIONS Home of the Original Mini-Ductor<sup>TM</sup>

TURNING MECHANICS INTO MAGICIANS



# **Meet the Inventor**

Tom Gough President

Tom founded Induction Innovations® in 2000, following 28 years as a collision repair technician, with a strong desire to find an easier and better way to the repair process. Earlier in life, Tom learned the induction heat theory in his father's dental lab, where a sign hung 'More, Sooner, Better.' Later, Tom revisited the process, self-taught the procedures and applied it to the many applications that it is used for in the automotive repair industry today. After being in business for several years, Tom wanted better quality circuit boards that are used in the Induction Innovations products and founded a PCB assembly house called Circuits by US.

Tom had a passion for science from a young age; he was always intrigued by his father's induction casting machines in his laboratory. After 25 years in the Automotive Collision Repair Industry as an ASE/ICAR Certified Technician, Tom was re-introduced to the induction heating process while serving as a volunteer firefighter. At this time, Tom realized how this process could benefit the automotive aftermarket industry. Starting in his basement, he began researching and developing and applying the process to practice. The results were quick, safe, precise, and reliable heat. Tom couldn't keep this to himself and decided to share the technology so that all shops and technicians could benefit from it. Thus, the start of Induction Innovations, Inc.



Tom Gough invented, designed, and manufactures the Inductor® and Mini-Ductor® product lines that have helped improve the lives and trade of automotive repair technicians and the repair process in both the Mechanical and Collision sides of the industry.

Using high-frequency magnetic fields gives users a greener, safer, and more cost-effective technology. Today's technicians are now beating book time, making faster, safer flameless repairs, salvaging parts usually discarded in the repair process and reducing the need for toxic solvents and other consumables. Not only is this product used in the automotive industry, but it has also been found to be helpful in different industries such as Marine, Military, Agriculture, Heavy Duty, and many others.

From the company's humble beginnings in 2000, it has grown into a 12,000-square-foot building with over 35 employees. As a hands-on owner, Tom is involved in every facet of the company, from product development to customer service to marketing and sales.

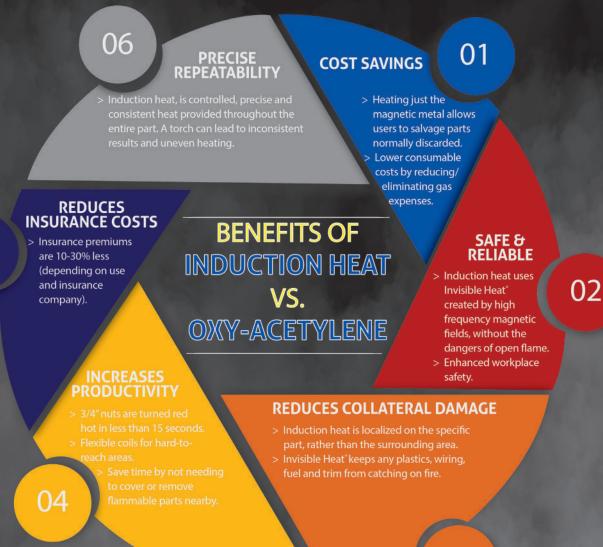
Tom has three children and nine grandchildren, and in his spare time, you might find him boating, tinkering in his garage with various projects or even making one of his creations, 'Stuffed Wings.' Tom is also quite the thrill seeker and loves to do aerobatics in a vintage WW II airplane, make stained glass windows, jump off a tall building, and zip lining.

To learn more about Tom and Induction Innovations' product development, please visit our website at www.theinductor.com.

# Induction Heat vs. Torch

#### What is Induction Heating and How Does it Work?

Induction heating offers a combination of speed, consistency, and control by using invisible flameless heat that is transferred to a product using High-Frequency Magnetic Fields, otherwise known as 'Induction Heat.' The magnetic field is induced into the workload (part to be heated) via a work coil (applicator). The work coil itself does not get hot. The work coil serves as the transfer primary, and the part to be heated (workload) becomes a short circuit secondary. When a metal part is placed within the induction coil's magnetic field, circulating eddy currents are induced within the part. These eddy currents flow against the electrical resistivity of the metal, generating precise and localized heat without any direct contact between the part and the coil.



#### About Induction Innovations, Inc.

05

Induction Innovations is a family-owned and operated manufacturer of high-performance induction heaters. Our headquarters and all manufacturing are located in Elgin, IL, just west of Chicago.

03

Our flameless heating tools have been designed to solve problems, such as how to remove stuck or corroded parts, auto glass, body moldings, and more. There's no longer a need to use a potentially dangerous torch to remove parts. An open flame is unreliable, time-consuming and can damage the area around the part, affecting productivity and, ultimately, your profits.

# Helpful Tips for Mini-Ductor<sup>®</sup> Series



**READ THE MANUAL** 

**FERROUS** 



APPLY 3-6 SEC ON REPEAT IF NEEDED



### **OVERHEATED**



### **GOOD COIL**



**BAD COIL** 

## **Repair Information**

All Induction Innovations units are repairable. For more information on repairs, visit our website

https://www.theinductor.com/induction-heater-tool-support or e-mail repairs@theinductor.com.

> Warranty & Repair Service United States & Canada Induction Innovations, Inc. Attn: Warranty Repair 1175 Jansen Farm Ct. Elgin, IL 60123

INDUCTION INNOVATIONS				
PART NUMBER	MD-500	MD-700	MDV-777	MDV-787

## **APPLICATIONS**

BEARINGS	YES	YES	YES	YES
BRAKE ANCHOR PINS	YES	YES	YES	YES
DECALS & GRAPHICS	YES	YES	YES	YES
EXHAUST MANIFOLD BOLTS	YES	YES	YES	YES
LUG NUTS	YES	YES	YES	YES
STRUTS	YES	YES	YES	YES
O2 SENSORS	YES	YES	YES	YES
SEATBELT BOLTS	YES	YES	YES	YES
GEARS	YES	YES	YES	YES
TIE-ROD ENDS	YES	YES	YES	YES
SUSPENSION HARDWARE	YES	YES	YES	YES
ABS SENSORS	YES	YES	YES	YES

# Mini-Ductor<sup>®</sup> Product Line

# Mini-Ductor<sup>®</sup> VENOM<sup>®</sup> HP (MDV-787) The Mini-Ductor<sup>®</sup> Venom<sup>®</sup> HP is the fourth generation of the

Mini-Ductor handheld induction heater. The Mini-Ductor Venom HP offers more power than any other Mini-Ductor, making the Venom HP the highest-powered Mini-Ductor available. This allows users to heat larger metal fasteners and components faster than ever before.



Part #	MDV-787
Length	14.5″
Width	3.25"
Weight	2.6 lbs.
Amps	15
Voltage	120V
Wattage	<b>up to</b> 1,800W
UPC	850010587127





### **Features & Contents**

#### Features & Benefits:

- > Ergonomic Pistol Grip Design
- > Easy Coil Twist Lock
- > Fault override delay protects the circuit from poor connections
- > LED usage indicator, Identifies poor connections
- > Fan operation enhancements, operates cooler

Industries Served: 🚔 🕞 🔛 🔛

- > Heavy Duty 18 AMP/14 AWG Power Cord for Max Power reliability > User manual
- > On/Off LED Light Switch
- > 2-year warranty

- > Mini-Ductor<sup>®</sup> Venom<sup>®</sup> HP
- > Carrying case
- > 7/8" Pre-formed Coil (MD99-601)
- > 23" U-form Coil (MD99-602)
- > 41" Bearing Buddy<sup>™</sup> Coil (MD99-603)

# **Mini-Ductor® Product Line**



### Features & Contents

#### Features & Benefits:

- > Ergonomic Pistol Grip Design
- > Easy Coil Twist Lock
- > Fault override delay protects the circuit from poor connections
- > LED usage indicator, Identifies poor connections
- > Fan operation enhancements, operates cooler
- > On/Off LED Light Switch
- > 2-year warranty

#### **Kit Contents:**

- > Mini-Ductor<sup>®</sup> Venom<sup>®</sup>
- > Carrying case
- > 7/8" Pre-formed Coil (MD99-601)
- > 23 "U-form Coil (MD99-602)
- > 41" Bearing Buddy<sup>™</sup> Coil (MD99-603)
- > User Manual



Ns

# **Mini-Ductor® Product Line**

## Mini-Ductor<sup>®</sup> II (MD-700)

The Mini-Ductor II is the second generation of the Mini-Ductor handheld induction heater. The Mini-Ductor II allows users to release corroded or frozen hardware and other metallic components from corrosion or thread lock compounds in seconds, without the collateral damage of an open flame.



Part #	MD-700
Length	14.75″
Width	2.75″
Weight	2.6 lbs.
Amps	10
Voltage	110V
Wattage	<b>up to</b> 1,000W
UPC	858492005085





### **Features & Contents**

#### Features & Benefits:

- > Inline Ergonomic Grenade Style Grip
- > Durable Military Grade Plastics
- > LED illumination
- > Push button activation
- > 1-year warranty

#### Kit Includes:

- > Mini-Ductor<sup>®</sup> II
- > Carrying case
- > <sup>7</sup>/<sub>8</sub>" Pre-formed Coil (MD99-601)
- > 23" U-form Coil (MD99-602)
- > 41" Bearing Buddy<sup>™</sup> Coil (MD99-603)
- > User Manual

# Mini-Ductor<sup>®</sup> Product Line

### Mini-Ductor<sup>®</sup> 12V (MD-500)

Ideal for roadside repairs or at a customer's premises where regular power supplies aren't available, the Mini-Ductor 12V (MD-500) is completely portable. Working off a 12V bat-tery pack or almost any 12v power source. The Mini-Ductor 12V can be used for a number of remote applications where rusted, corroded or thread locked parts need to be removed quickly and safely.



Part #	MD-500
Length	14.75″
Width	2.75"
Weight	3.8 lbs.
Amps	70
Voltage	12V
Wattage	up to 840W
UPC	858492005269





### Features & Contents

#### Features & Benefits:

- > Works off 12V battery (not included)
- > Inline Ergonomic Grenade Style Grip
- > Durable Military Grade Plastics
- > Thermal Overload Protection
- > Push button activation
- > LED illumination
- > 1-year warranty

#### Kit Includes:

- > Mini-Ductor<sup>®</sup> 12V
- > Carrying case
- > 7/8" Pre-formed Coil (MD99-601)
- > 23" U-form Coil (MD99-602)
- > 1" Pre-formed Coil (MD99-610)
- > User Manual





# **Mini-Ductor<sup>®</sup> Product Line Accessories**

**Bearing Buddy<sup>™</sup> Pack** 

MD99-643





MINI-DUCTOR

MINI-DUCTOR®



MD99-644 Thin Wall Coil Pack Designed to work in conjunction

Designed to work in conjunction where thin wall sockets are needed. (1) ea. MD99-629, MD99-631, MD99-632, MD99-635

Includes two sizes of Bearing Buddy and insulation pad to help protect your coil from the direct heat.

(1) ea. MD99-603, MD99-612, MD99-XBB96

### MD99-650 Standard Coil Kit

Most Commonly used coils. (2) ea. MD99-601, (1) MD99-605, MD99-607, MD99-608, MD99-609, MD99-610, MD99-611

MD99-660 Essential Coil Kit

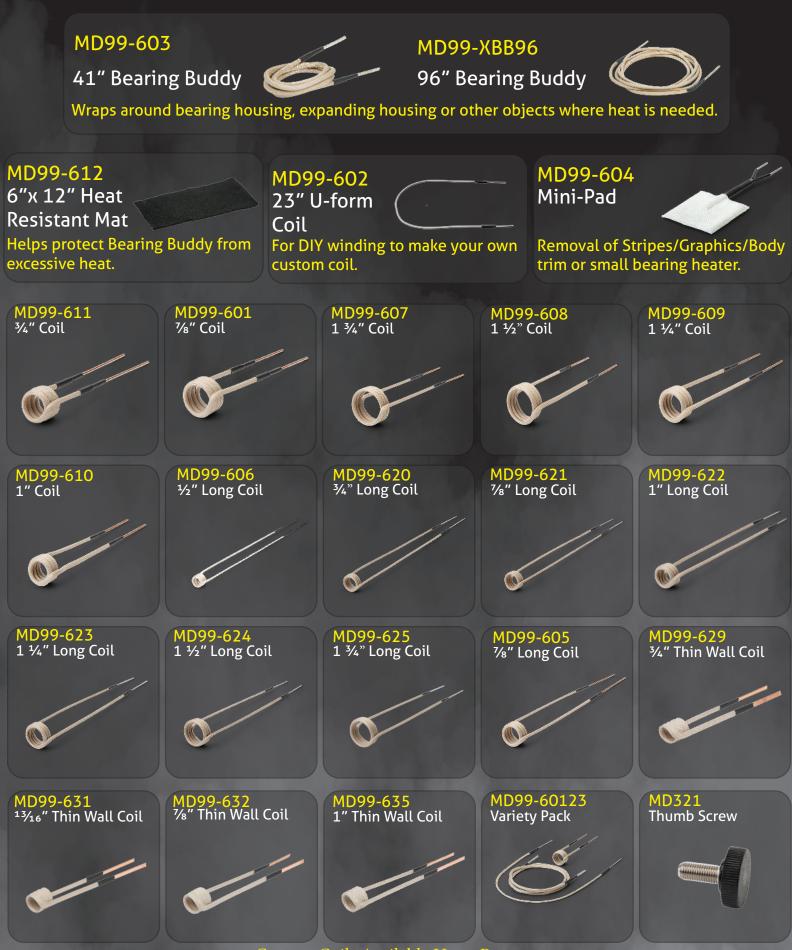
Most Commonly used coils from the Standard & Long Coil Kits. (2) ea. MD99-601, MD99-611, (1) MD99-605, MD99-610, MD99-621, MD99-622



066

MD99-675
Long Coil Kit
Designed for those hard-to-reach areas and around corners.
(2) ea. MD99-622, MD99-621,
(1) MD99-620, MD99-623, MD99-624, MD99-625

# **Mini-Ductor<sup>®</sup> Product Line Accessories**



Custom Coils Available Upon Request

INDUCTION INNOVATIONS				
PART NUMBER	GB-20311	IM-IND2011	PM-20000	PM-200FL

### **APPLICATIONS**

REMOVES ADHESIVE BONDED WINDOWS	YES	YES	YES	YES
REMOVES ADHESIVE BONDED SMC PANELS	YES	YES	YES	YES
REMOVES BEDLINERS	YES	YES	YES	YES
LOOSENS NUTS FROM BOLTS	NO	YES	YES	YES
REMOVES CAULKING FROM ROOF CHANNELS	NO	YES	YES	YES
REMOVES SOFT DENTS (PDR)	NO	YES: WITH THE CONCENTRATOR OR OPTIONAL PDR BATON	YES: WITH THE CONCENTRATOR OR OPTIONAL PDR BATON	YES: WITH THE CONCENTRATOR OR PDR BATON
REMOVE BODY SIDE MOLDINGS	NO	YES	YES	YES
REMOVES PINSTRIPES, VINYL GRAPHICS AND DECALS	NO	YES	YES	YES
REMOVES WEATHER AND VAPOR BARRIERS	NO	YES	YES	YES
LOOSENS RUSTED DOOR HINGES	NO	YES	YES	YES
HEATS FRAME RAILS FOR STRAIGHTENING	NO	YES: WITH THE OPTIONAL ROSEBUD	YES: WITH THE OPTIONAL ROSEBUD	YES



### Features & Contents

#### Features & Benefits:

- > Includes three attachments
- > Fine tuning linear power control
- Allows users to operate at a rate they feel best meets their need
- > Audible and visual power indicators
- (Audible sounds when activated. Visual identifies how well you are coupling with a workload) > (2) L-Wedges (L-0810A)
- > 2-year warranty on power supply
- > 1-year warranty on attachments

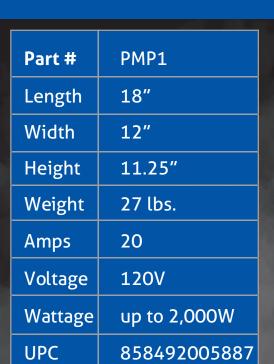
- > Power Supply (PMP1)
- > Fast-off<sup>®</sup> Pad (U-211)
- > Glass Blaster<sup>®</sup> (U-311)
- > Concentrator (U-411)
- > User Manual



### Pro-Max PDR Kit (PMP1-1411)

Using induction heating, the Inductor<sup>®</sup> Series PDR Kit is everything you need to remove hail dents, door dings and other soft dents on vehicles without having to repaint. (PDR: paintless dent removal)

Note: the PDR Baton is ideal for removing smaller and pinpoint dents while the Concentrator is useful for removing large dents.







### Features & Contents

#### Features & Benefits:

- > Portable toolbox, take it where you need it.
- > Option to add additional attachments, ad as your needs grow.
- > Fine tuning linear power control.
- Allows users to operate at a rate they feel best meets their need.
- > Audible and visual power indicators.
- Audible alert sounds when activated. Visual (meter) identifies how well you are coupling with a workload.
- > Pneumatic foot pedal control.
- Hazard free from moisture, liquids and dust.
- > 2-year warranty on power supply
- > 1-year warranty on attachments

- > Power Supply (PMP1)
- > PDR Baton (U-111)
- > Concentrator (U-411)
- > (2) L-Wedges (L-0810A)
- > User Manual



## Pro-Max<sup>®</sup> Fully Loaded (PM-200FL)

Reduce costs on: Labor, expensive consumable, toxic solvents, and salvage parts normally discarded in the repair process. The Inductor® Pro-Max-Fully Loaded comes with all the popular attachments to meet your needs. Heavy-duty cart included! Remove all types of Adhesives, Coatings and Automotive Glass bonded to ferrous metals, as well as seized hardware from corrosion/thread lock compounds, all without the collateral damage of an open flame.

Part #	PMP1
Length	18″
Width	12″
Height	11.25″
Weight	27 lbs.
Amps	20
Voltage	120V
Wattage	up to 2,000W
UPC	858492005887



### Features & Contents

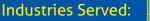
#### Features & Benefits:

- > Includes six attachments
- > Fine tuning linear power control.
- (Allows users to operate at a rate they feel best meets their need)
- > Audible and visual power indicators
- (Audible sounds when activated. Visual identifies how well you are coupling with a workload) > U-555
- > Pneumatic foot switch

(Hazard free from moisture, liquids and dust. Allows for better ergonomic control of the handheld attachments.)

- > 2-year warranty on power supply
- > 1-year warranty on attachments

- > Power Supply (PMP1)
- > PDR Baton (U-111)
- > Fast-off® Pad (U-211) > Glass Blaster<sup>®</sup> (U-311)
- > Concentrator (U-411) > Rosebud (U-511)
- > (2) L-Wedges (L-0810A)
- > Standard Coil Kit (MD99-650)
- > Long Coil Kit (MD99-675)
- > Cold Shield (CS-032)
- > User Manual





### Inductor® Max (IM-IND2011)

The Inductor Max offers all the uses and options as the Inductor Pro-Max mounted into a portable toolbox. Using high frequency magnetic fields to generate Invisible Heat® in metallic car parts without the collateral damage of an open flame to nearby parts. Quickly and easily remove vinyl graphics, moldings, auto glass, windshields, mechanical and suspension parts and more.



#### Length 11" Width 22.5" Height 10.3" Weight 20 lbs. 20 Amps Voltage 120V up to 2,000W Wattage UPC 858492005665

MXP1

Part #





## Features & Contents

#### Features & Benefits:

- > Portable toolbox, take it where you need it
- > Includes three attachments
- > Option to add additional attachments
- > Fine tuning linear power control
- > Pneumatic foot switch
- > Audible and visual power indicators

(Hazard free from moisture, liquids and dust. Allows for better ergonomic control of the handheld attachments)

> 1-year warranty



- > Power Supply (MXP1)
- > Fast-off<sup>®</sup> Pad (U-211)
- > Glass Blaster<sup>®</sup> (U-311)
- > Concentrator (U-411)
- > (2) L-Wedges (L-0810A)
- > User Manual

### Inductor<sup>®</sup> Glass Blaster (GB-20311)

The Inductor Glass Blaster is perfect for removing windshields and other bonded auto glass, SMC panels, metal bond adhesives, undercoating, appliqués, and spray-in bedliners in a fraction of the time it takes using other tools. It can also operate on a 'True Sign Wave Inverter' or a 'Voltage Regulated Generator'.



#### Features & Benefits:

- > Portable toolbox
- > Ergonomic gripping
- > Pneumatic foot switch

> Audible and visual power indicators (Hazard free from moisture, liquids and dust. Allows for better ergonomic control of the handheld attachments)

> 1-year warranty

#### Part # GB-20311 Length 13" Width 24" 13" Height Weight 19 lbs. Amps 20 120V Voltage Wattage up to 2,000W UPC 858492005665



BEDLINERS

- > Inverter mounted in tool box
- > (2) L-Wedges (L-0810A)
- > Glass Blaster<sup>®</sup>, hardwired (U-311)
- > User Manual

# Customize Your Inductor<sup>®</sup> Kit







Place your order through your local tool distributor or visit www.theinductor.com to purchase the power supply as well as the attachments you need for your particular application(s). Please contact 877-688-9633, for questions or additional information.

### Inductor<sup>®</sup> ALFe<sup>®</sup> 3.5 (IC-3500)

The Inductor ALFe 3.5 (IC-3500) induction heater delivers safe, precise and reliable heat. The ALFe 3.5 is ideal for repair shops that require high-end heat levels to release seized parts and panel bond adhesives from steel or aluminum.



Part #	IC-3500
Length	19″
Width	13"
Height	16″
Weight	33 lbs.
Wattage	up to 3500W
Voltage	230V





### **Features & Contents**

#### Features & Benefits:

- > Heats steel and aluminum
- > LED light indicator
- > 9-minute duty cycle
- > Safety shut-off
- > Liquid cooled
- > 1-year warranty

- > Power Supply
- > Fast-off<sup>®</sup> Pad (AL-211)
- > Glass Blaster<sup>®</sup> (AL-311)
- > Flow Concentrator (AL-411-01)
- > User Manual
- > Optional: Cart (LXR-11)

# Inductor<sup>®</sup> ALFe<sup>®</sup> Product Line

### Inductor® ALFe® 5.0 (IC-5000)

The Inductor ALFe 5.0 (IC-5000) induction heater heats steel and aluminum faster, safer and more precise than a torch. ALFe 5.0 heats metal parts to the required temperatures all while saving time, consumables and salvaging parts normally discarded in the repair process.



Part #	IC-5000
Length	21.5″
Width	20"
Height	40"
Weight	126 lbs.
Wattage	up to 5000W
Voltage	208V



## Features & Contents

#### Features & Benefits :

- > Heats steel and aluminum
- > LED light indicator
- > 30-minute duty cycle
- > Safety shut-off
- > Liquid cooled
- > 1-year warranty

#### Kit Contents:

> Fast-off<sup>®</sup> Pad (AL-211)

**BRAKES** 

- > Glass Blaster<sup>®</sup> (AL-311)
- > Flow Concentrator (AL-411-01)
- > User manual



# **Industries Served**



#### Automotive/Body Shops

Our induction tools were designed by a body shop technician for body shop technician needs, which is the core business of Induction Innovations. Tools like the Mini-Ductor Venom or Inductor Pro-Max are useful in reducing repair time and increasing the quality of those repairs, which results in happy customers and stress-free techs. *Products Used: Mini-Ductor®, Inductor® or ALFe® Product Lines* 

#### **Auto Recyclers**



It's no secret that induction heating increases productivity by quickly removing windshields, quarter glass, glass panels, and other vehicle windows without causing breakage. In the salvage industry, it is vital to get repairs done quickly while avoiding damage to recovered parts. Increase your auto part recycling capacity by using the Inductor Series Glass Blaster<sup>®</sup>, which removes windshields from outside the vehicle in less than 15 minutes.

Products Used: Inductor® or ALFe® Product Lines

#### Agriculture



The agricultural industry has created incredibly efficient processes and systems to drive high outputs thanks to advanced technology. This reliance on heavy machinery may leave farmers vulnerable in instances of machinery breakage or failure, causing them to be financially exposed until they can repair or replace vital equipment. Under extreme pressure to minimize equipment downtime and maximize production efficiency, farmers must have strategies for quick repairs that won't jeopardize their substantial investment in their equipment.

Products Used: Mini-Ductor® or Inductor® Product Line

#### Heavy-Duty/Trucking



Torches are commonly used to remove the many rusted or otherwise seized nuts, bolts and bearings found on heavy-duty equipment. However, using an open flame can be dangerous given build-ups of dust and other flammable material. Using an induction heater to replace most torch use is increasingly accepted by technicians as a safer and faster way to repair heavy-duty equipment, especially with the Mini-Ductor from Induction Innovations.

Products Used: Mini-Ductor®, Inductor® or ALFe® Product Lines



#### Construction

When it comes to heavy equipment, construction equipment is the most expensive to repair or replace. There are many causes to machine failure, including thermal and mechanic induced failure. With induction heating, there's no need for expensive downtime to repair heavy equipment. Using our Inductor or Mini-Ductor product line saves time, money and parts.

**Products Used: Mini-Ductor®, Inductor® or ALFe® Product Lines** 



#### Marine

Just as in the automotive, trucking, and farming industries, boat repair technicians and master dealers are replacing their torches and sprays with the Mini-Ductor product line. A more precise, safer and reliable method for removing corrosive parts. *Products Used: Mini-Ductor® Product Line* 



(877) 688-9633 | 1175 Jansen Farm Court | Elgin, IL 60123 www.theinductor.com Follow us on: in f ( ( ) ( ) ( )

uum



R