PLASTI-WELD

Plastic Welding Technology & Hot Air Tools

a member of the Hudaco group

INFRARED TECHNOLOGY SOLUTIONS

CATALOGUE

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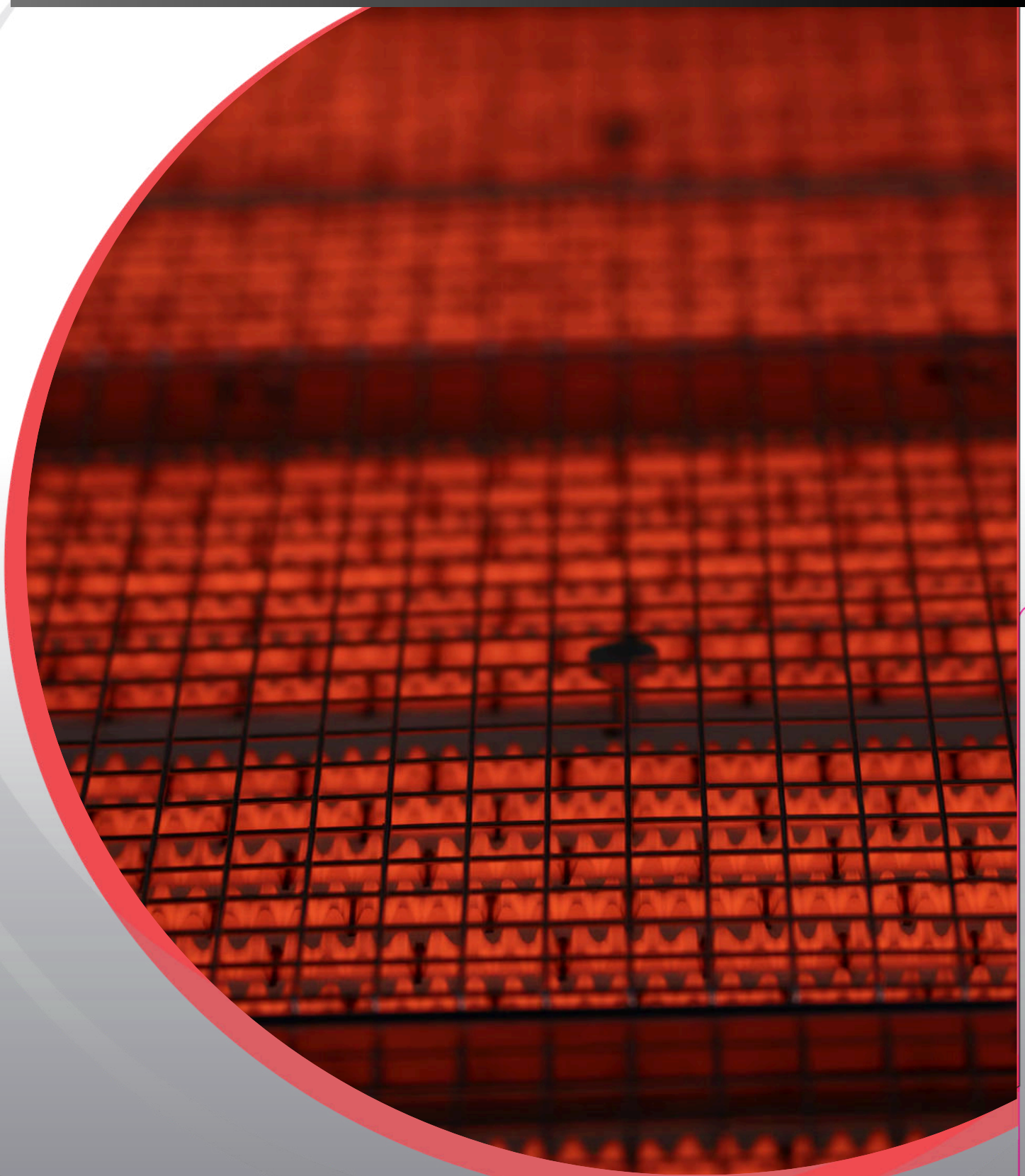
INFRARED TECHNOLOGY SOLUTIONS



INFRARED TECHNOLOGY SOLUTIONS

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INFRARED TECHNOLOGY SOLUTIONS

PRODUCTS

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Consistent Process Heat for Modern Manufacturing

Powered by Plastiweld & Leister

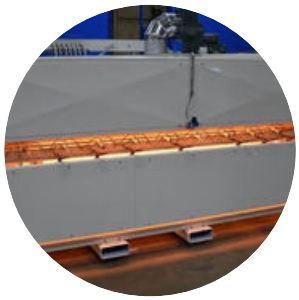
Infrared Technology That Drives Productivity

In today's manufacturing environment, speed, efficiency, precision and energy savings are critical. Infrared heating technology provides a fast, highly controllable and energy-efficient method of applying heat exactly where it is needed. Leister infrared heaters are used worldwide in demanding industrial applications where high radiation intensity, rapid response times and precise temperature control are essential.
Unlike conventional heating methods, infrared technology transfers energy directly to the material, enabling faster heating, reduced energy consumption and improved production consistency.

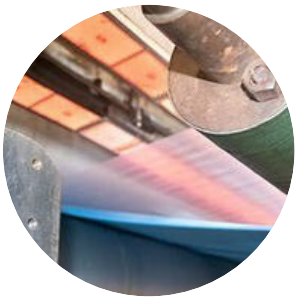
Why Infrared Heating?

Rapid Heat Response
Infrared heaters reach operating temperatures quickly, reducing startup times and increasing production efficiency.
Precise Temperature Control
Accurate heat delivery improves product quality and process consistency.
Energy Efficient
Infrared heating focuses energy where it is required, reducing waste and lowering operating costs.
Easy Integration
Infrared systems integrate seamlessly into production lines, automated machinery and OEM equipment.
Consistent Production Quality
Uniform heating improves repeatability and finished product quality.

Typical Infrared Applications



Thermoforming



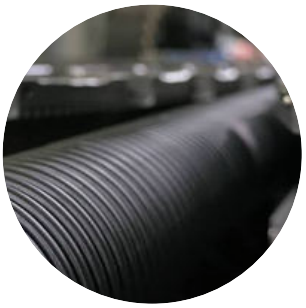
Laminating

Drying

Embossing

Coating

Composite processing



Plastic forming

Nonwoven manufacturing

Medical product production

Automotive component manufacturing

Featured Leister Infrared Products

KRELUS Infrared Heaters

The Benchmark for Industrial IR Heating
Leister's KRELUS infrared technology delivers highly efficient and uniform heating performance across a wide range of industrial applications.

Ideal Applications:
Thermoforming
Laminating
Composite heating
Plastic sheet processing
Textile manufacturing

Benefits:
✅ High radiation intensity
✅ Uniform temperature distribution
✅ Fast response times
✅ Energy-efficient operation
✅ Long service life

KRELUS infrared emitters are widely used in automated production environments where process consistency is critical.

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PROFESSIONAL WELDING TECHNOLOGY

KRELUS IR Modules

KRELUS G7-50 MINI

Designed specifically for machine builders and production-line integration.

Applications:
Automated manufacturing systems
OEM machinery
Laminating equipment
Coating systems
Thermoforming lines

Benefits:
✅ Modular configuration
✅ Easy integration
✅ Scalable system design
✅ Precise process control

PROFESSIONAL WELDING TECHNOLOGY

KRELUS G7-50 MINI	
Voltage	230 V
Current	8.7 A
Power	2000 W

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PROFESSIONAL WELDING TECHNOLOGY

Custom Infrared Heating Systems

KRELUS Special Heater

Leister specializes in customer-specific infrared solutions tailored to unique production requirements.

Advantages:

- Increased productivity
- Lower energy consumption
- Improved process stability
- Faster production cycles
- Reduced manufacturing costs

PROFESSIONAL WELDING TECHNOLOGY

Industry Solutions

Automotive Manufacturing

Modern vehicle production demands efficient heating solutions for lightweight materials, interiors and composite components.

Applications:

- Dashboard lamination
- Interior trim components
- Composite manufacturing
- Organo-sheet heating
- Hybrid injection moulding

Leister infrared systems deliver the precise temperature control required by automotive manufacturers worldwide.

PROFESSIONAL WELDING TECHNOLOGY

Aerospace Industry

Lightweight composite materials are increasingly replacing traditional metals in aircraft manufacturing.

Benefits:

- Uniform material heating
- Reduced process times
- Improved composite performance
- Consistent production quality

Infrared heating provides accurate, homogeneous heating even at high processing temperatures.

PROFESSIONAL WELDING TECHNOLOGY

Construction & Interior Products

Infrared technology is widely used in the production of:

- Flooring products
- Wallpapers
- Decorative surfaces
- Laminated panels
- Countertops
- Construction materials

Many modern interior products rely on infrared heating during manufacturing processes such as laminating, embossing and forming.

PROFESSIONAL WELDING TECHNOLOGY

Medical & Pharmaceutical Manufacturing

Infrared heating supports the production of:

- Respiratory masks
- Medical components
- Nonwoven products
- Healthcare equipment

Precise process control ensures product consistency and manufacturing reliability.

PROFESSIONAL WELDING TECHNOLOGY

Consumer Goods Manufacturing

Infrared heating is used extensively in:

- Sporting equipment
- Artificial leather products
- Handbags
- Technical fabrics
- Composite consumer products

Manufacturers benefit from improved quality and production efficiency.

PROFESSIONAL WELDING TECHNOLOGY

Advanced Manufacturing Applications

Drying Processes

Infrared energy provides efficient drying for:

- Coatings
- Textiles
- Printed materials
- Industrial products

Fast heating reduces production times and increases throughput.

PROFESSIONAL WELDING TECHNOLOGY

Laminating Processes

Infrared heaters help bond multiple materials together consistently and efficiently.

Applications:

Decorative laminates

Automotive interiors

Industrial materials

Composite products

PROFESSIONAL WELDING TECHNOLOGY

Embossing Processes

Precise infrared heat improves material forming and surface finishing.

Examples include:

- Synthetic leather
- Decorative surfaces
- Consumer products
- Packaging materials

PROFESSIONAL WELDING TECHNOLOGY

Thermoforming

Infrared heating provides controlled heating of plastic sheets before forming operations.

Benefits:

✅ Uniform heating
✅ Reduced cycle times
✅ Improved part quality
✅ Lower energy consumption

According to Leister expertise, optimized infrared heating can significantly reduce thermoforming energy costs.

PROFESSIONAL WELDING TECHNOLOGY

Why Leister?

Swiss Engineering Excellence
Leister infrared systems are designed for demanding industrial production environments where performance and reliability are critical.

Proven Global Performance
Leister infrared technology is utilized worldwide in automotive, aerospace, medical, construction and manufacturing industries.

Fast Response & Precise Control
High radiation intensity combined with exceptional controllability delivers outstanding process consistency.

Customized Solutions
Leister specializes in customer-specific infrared solutions designed to maximize productivity and efficiency.

Local Plastiweld Support

Plastiweld provides:

- Technical consultations
- Product selection assistance
- Process optimization support
- Integration guidance
- Operator training
- Repairs and servicing
- Spare parts support

Global technology supported by local expertise.

Industries Served

- Automotive Manufacturing
- Aerospace
- Building Products
- Flooring Production
- Medical & Pharmaceutical
- Composite Manufacturing
- Packaging
- Nonwoven Products
- Consumer Goods
- Industrial Manufacturing

Featured Leister Infrared Products

KRELUS IR Medium-Wave Infrared Emitters

Precision Process Heating

The KRELUS infrared emitter range provides highly efficient medium-wave infrared energy designed for fast and uniform heating of materials in industrial production environments. These emitters are known for their short reaction times, precise control and exceptional process consistency.

Ideal Applications:

- Thermoforming
- Composite manufacturing
- Drying processes
- Textile production
- Plastic sheet heating
- Laminating systems

Benefits:

✅ Fast heat-up and cool-down times
✅ Uniform heat distribution
✅ High energy efficiency
✅ Reduced operating costs
✅ Long service life

Featured Leister Infrared Products

KRELUS Infrared Heating Modules

Designed for OEM Integration

KRELUS modular infrared heating systems are designed for seamless integration into automated machinery and production lines. They can be configured to suit specific production requirements and material sizes.

Applications:

- Thermoforming machines
- Laminating lines
- Embossing systems
- Coating equipment
- Composite production cells

Benefits:

✅ Customizable layouts
✅ Easy installation
✅ Reduced maintenance
✅ Consistent production quality

Featured Leister Infrared Products

KRELUS Thermoforming Heating Systems

Thermoforming requires uniform and controlled heating of plastic sheets before forming. KRELUS infrared heating systems provide excellent temperature consistency while reducing energy consumption. Leister highlights thermoforming as one of the key industrial applications for infrared technology.

Typical Industries:

- Packaging
- Automotive
- Medical
- Appliance manufacturing
- Industrial plastics

Benefits:

✅ Faster production cycles
✅ Better mould quality
✅ Reduced sheet deformation
✅ Lower energy costs

Featured Leister Infrared Products

KRELUS Composite Heating Solutions

Composite materials require controlled heating to ensure consistent material performance.

Applications:

- Aerospace components
- Automotive panels
- Carbon fiber components
- Organo-sheet processing
- Hybrid moulding systems

Benefits:

✅ Uniform heating
✅ Improved bond quality
✅ Reduced cycle times
✅ Higher productivity

Leister specifically highlights automotive and aerospace composite manufacturing as key application sectors.

Featured Leister Infrared Products

KRELUS Drying Systems

Infrared drying systems accelerate moisture removal while maintaining product integrity.

Applications:

- Textile drying
- Coating lines
- Printing processes
- Surface finishing
- Industrial manufacturing

Benefits:

✅ Faster drying
✅ Reduced energy usage
✅ Improved product quality
✅ Increased throughput

Drying is one of the most widely used infrared applications across industrial manufacturing.

Industry Applications & Recommended Products

Application	Recommended Infrared Solution
Thermoforming	KRELUS Thermoforming Systems
Laminating	KRELUS IR Modules
Composite Manufacturing	KRELUS Composite Heating Systems
Automotive Production	KRELUS IR Emitters
Aerospace Manufacturing	KRELUS Composite Solutions
Textile Drying	KRELUS Drying Systems
Coating Lines	KRELUS IR Emitters
Embossing Processes	KRELUS IR Modules
Medical Product Manufacturing	KRELUS Infrared Systems
Flooring Production	KRELUS Heating Modules

Why Infrared Instead of Conventional Heating?

Faster Response Times
Infrared delivers heat directly to the material, reducing process times and increasing output.
Improved Energy Efficiency
Energy is focused precisely where required, reducing waste and lowering operating costs.
Better Product Quality
Uniform heating improves consistency and reduces defects.
Reduced Manufacturing Costs
Optimized heating processes can significantly decrease production costs and improve profitability.

Why Leister Infrared Technology?

Swiss Engineering Excellence
Precision-manufactured solutions designed for demanding industrial production environments.
Proven Global Performance
Used worldwide in automotive, aerospace, medical, building products and industrial manufacturing sectors.
Customised Process Solutions
Leister specialises in customer-specific infrared systems tailored to production requirements.
Local Plastiweld Support
Technical support, system selection, project consultation, servicing and spare parts are available through Plastiweld.
Consistent Process Heat. Maximum Efficiency. Proven Performance.