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PRESS RELEASE

## **IRT introduces TCR, a new generation of intelligent infrared curing for body and paint shops**

For more than half a century, IRT has pushed the boundaries of infrared curing technology. Now the company introduces the TCR, a breakthrough 5th-generation dryer engineered to bring an entirely new level of control to modern repair processes.

By combining advanced thermal mapping, intelligent distance measurement, and adaptive cooling, TCR delivers reliable and highly energy-efficient curing across all common automotive coatings.

### **Advanced thermal mapping for perfect process control**

At the heart of the TCR is a thermal camera that monitors the surface temperature with 768 individual pyrometers over an area of 170 × 90 centimeters, continuously detecting the five hottest points on the repair surface. This data is fed directly to the control unit, which instantly adjusts the infrared output to maintain the correct temperature profile throughout the curing cycle.

By responding in real time to temperature fluctuations, the system:

- prevents overheating
- eliminates uneven curing
- ensures that only the necessary amount of energy is used to reach the target temperature

All curing cycles are logged, providing complete traceability and documentation.

### **Intelligent positioning with radar distance measurement**

TCR integrates a radar distance sensor that verifies the dryer's placement before curing begins. If the unit is too close or too far the operator is alerted immediately. A built-in laser pointer assists in aligning the cassettes to the correct angle. This ensures that each job starts from optimal conditions with minimal risk of operator error.

### **Adaptive ventilation for durability**

TCR introduces a new generation of adaptive ventilation that continuously regulates fan speed based on actual internal temperatures.

During normal operation, the system runs quietly and efficiently. As the internal temperature rises, the fan increases speed to protect critical components.

This intelligent cooling strategy extends lamp and filter life and reduces unnecessary energy consumption.

### **A workshop-ready design built for precision and ease of use**

The TCR has been engineered from the ground up with workshop use in mind. The finger-light arm design allows smooth, self-locking height adjustment, and the integrated cable routing protects all wiring while enabling precise positioning of the cassettes.

When not in use, the cassettes park neatly between the legs of the stand, keeping the footprint small and the workspace clear.

The low, slim base is easy to maneuver and offers excellent access under vehicles while maintaining a stable, tip-resistant structure.

Hedson's signature gold-coated FreeForm reflectors are used to direct up to 97 percent of the infrared energy onto the surface, reducing energy loss and enabling faster curing. The system's long-life lamps, supported by the optimized cooling strategy, can last up to 20,000 hours, minimizing downtime and maintenance.

### **A new operator interface built for real workshop conditions**

TCR incorporates a robust touch display that supports both scroll and tap navigation, complemented by physical buttons designed for use with gloves. The screen is easy to read even in bright workshop environments thanks to an optimized viewing angle and high brightness. Its hardened glass surface withstands solvents and even razor blades without damage.

The system displays live temperature data, the curing curve, and the real-time process, and it documents performance and energy consumption after each curing cycle.

### **Reliable, repeatable curing**

By combining precise thermal mapping, verified distance control, adaptive cooling and IRT's long-established infrared expertise, the TCR delivers a curing result that is consistent, traceable and free from guesswork. It brings a new level of control to body and paint shops, ensuring faster throughput and high-quality repairs.

### **About IRT - The Curing Company**

IRT is part of Hedson Technologies\* and has been an industry leader in automotive curing solutions for over five decades. Known for its cutting-edge infrared systems, IRT equipment is trusted by professionals in body shops and production environments around the globe.

*\* Hedson Technologies is a part of Storskogen, an international group of businesses across trade, industry and services. With a long-term ownership horizon, Storskogen acquires and develops leading small- and medium-sized businesses in selected industries.  
Read more on [www.storskogen.com](http://www.storskogen.com).*

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