ROCTOOL
MOLDING MATTERS.

Press Release
Le Bourget-du-Lac, September 11th, 2025

Live at K-Show: Roctool Slashes Cycle Times in High-Heat Molding Demonstrations

- Live molding of **PEI & PEEK** at over **200°C** with radically shorter cycles and exceptional part quality at **Roctool** booth **Hall 15, C41**
- Displaying **10 mm optical lenses**, with 50% shorter cycle time compared to conventional processes
- New Ultra-Compact Air-Cooled induction generators running live at the booth

At K-Show 2025, Roctool will unveil live demonstrations never seen before at this event: high-temperature molding with unmatched speed, quality, and efficiency. The demonstrations will take place on the Roctool stand with a **KraussMaffei** injection molding machine, Roctool's long-standing partner at trade shows. The KM CX 80 is equipped with the new LRXplus linear robot.

For over 20 years, Roctool has been perfecting its proprietary Heat & Cool induction technology, heating mold surfaces to the right temperature in seconds, then actively cooling them. The result: shorter cycles, flawless surfaces, and lower energy consumption. Unlike traditional oil or hot water systems, Roctool's "dry" induction heating is clean, safe, and highly reliable.

Engineering Resins molded at 200°C+

Roctool will run during the show, a 2-cavity tool producing precision housing in PEI+GF and PEEK:

- Mold temperature up to 300°C, for example heating from 130°C to 230°C in just 9 seconds
- 40% cycle time reduction compared to standard processes
- 30% energy savings per shot versus traditional molding
- Superior surface quality: no weld lines, no exposed fibers, no surface defects
- Roctool technology can also push molds up to **300°C** when required, opening the door for thin-wall and advanced designs that conventional thermoregulation cannot match.

Game-Changer for Lenses & Optical Components

Roctool will showcase 10 mm thick PMMA and PC lenses:

- Up to 50% cycle time reduction thanks to rapid high-temperature induction heating, followed by low-temperature cooling.
- Ability to mold very thick lenses in a single shot, with a short cycle time.

A breakthrough in optics and lighting for thick-walled applications, including light guides and headlight components. This technology overcomes the cooling limitations that have long challenged optical injection molding.

Why Roctool is Different

Traditional systems (oil, hot water, resistive heating) can't reach such high temperatures quickly and suffer from long cooling times. Roctool climbs above 300°C in record time, then cools rapidly with colder water.
Every cycle benefits from precise thermal control, offering:

- Shorter production cycles and lower costs than conventional molding
- Greater process efficiency compared to traditional methods
- Higher and more consistent part quality than standard molding

Management Statement

"At this year's K-Show, we are proving live that Roctool's advanced induction technology achieves cycle times never seen before for high-heat resins, offering production stability and superior part quality, while delivering significant energy savings." **Mathieu Boulanger, CEO of Roctool**.

Partnerships at K-Show

These demonstrations are powered by Roctool's latest Heat & Cool systems, with the mold manufactured by **Moldetipo** (Portugal). Live runs will take place daily on a **KraussMaffei CX 80** with the new LRXplus linear robot with high-performance materials from **SABIC** (ULTEM™ PEI+GF) and **SYENSQO** (KetaSpire® PEEK).

Don't miss the live demonstrations of Roctool's high-temperature induction molding

Hall 15 C41, every day at K-Show 2025

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About Roctool:
Founded in 2000 and listed on Euronext Growth, Roctool is a global expert in induction technologies for plastic and composite molding. With operations in Europe, North America, and Asia, Roctool provides complete solutions: proprietary generators, tooling, engineering services, and simulation. Its technologies cover injection, compression, and composites, with a clear value proposition: faster cycles, higher surface quality, and lower energy consumption.