COMPLETE OFFER
TO ADOPT THE TECHNOLOGY

1

INITIAL FEEDBACK
- Material review (database or trials)
- Power requirement estimation
- Preliminary budget envelope

2

FEASIBILITY STUDY
- Review of client objectives
- Heat & Cool integration layout
- Cycle time definition

3

ENGINEERING SIMULATION
- Flow analysis
- Thermal analysis
- CAD (Computer-Aided Design) and BOM (Bill of Materials)

4

SYSTEMS
- Roctool hardware integration
- Interface with injection molding machine (IMM)
- Heat & Cool equipment

5

PROCESS INSTALLATION
- Installation of tooling hardware in the mold
- Process start-up and optimization

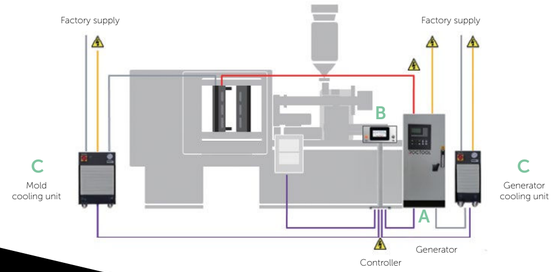
INDUCTION
HEAT & COOL SYSTEMS

EASY TO INSTALL
Plug & Play

COMPACT
Optimized footprint

POWERFUL
Best output in the industry

EFFICIENT
Lowest energy consumption



A

GENERATOR
Induction heating systems provide power to the mold
Ranging from 25 kW to 300 kW
Available as single or dual outputs

B

CONTROLLER
Interface between press and generator
Enables precise process monitoring

C

PERFORMANCE COOLING UNITS
Designed for molds and Roctool equipment

INDUSTRIES

AEROSPACE & DEFENSE

BEAUTY

ELECTRONICS

AUTOMOTIVE

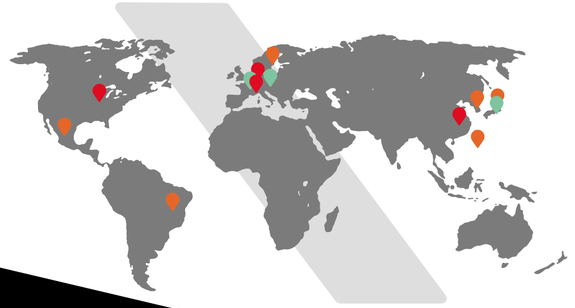
SPORT & LEISURE

MEDICAL

CONSUMER PRODUCTS

ENERGY

WORLDWIDE
A global footprint with local expertise:
Offices. Tech centers. Global agent network.



CONTACT

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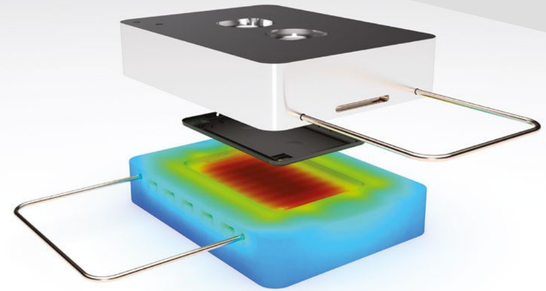
ROCTOOL TECHNOLOGY
LEADING HEAT & COOL TECHNOLOGY FOR INJECTION AND COMPRESSION MOLDING



**FAST \ CLEAN \ EFFICIENT **

Roctool's rapid induction heating delivers ultra-fast cycle times with perfect surface quality, no paint or secondary operations needed. Enables lightweight designs and is compatible with advanced engineering resins for high-temperature applications.

ROCTOOL
MOLDING MATTERS.

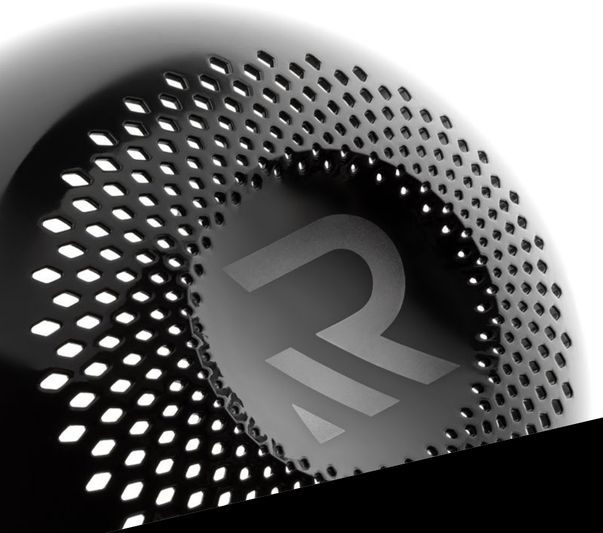
TECHNOLOGY ADVANTAGES

APPLICATION

- No weld lines
- No paint or secondary operations
- Thin wall & lightweight
- Perfect mold replication
  High gloss & Low gloss

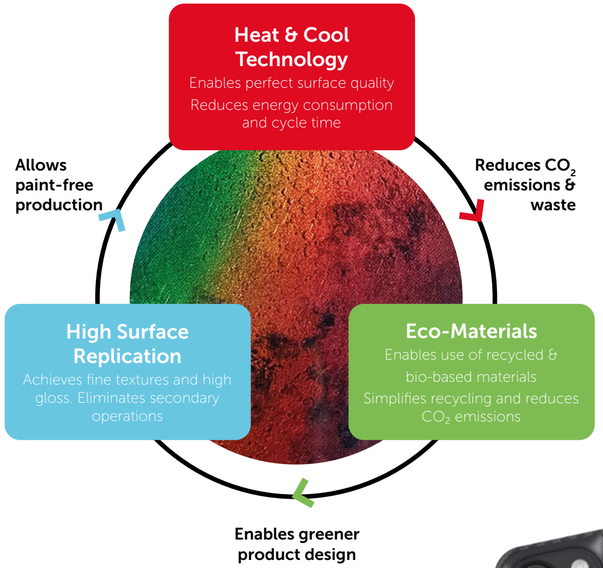
PROCESS

- Low energy consumption
- Precise temperature control
- High temperature molding
- Shorter cycle time
  Fast heating & cooling



ECO-MOLDING™

Founded on three interconnected pillars that work together to deliver high-quality molded parts with a reduced environmental impact, enhancing both performance and sustainability.



COMPRESSION MOLDING

Advanced compression molding for high performance composites

3iTech® - Integrated Internal Induction Technology

- Heat & Cool network integrated in the mold
- High temperature

R-IDS™ - Induction Dynamic Saver

- Heated platens
- Heat & Cool inside the platens
- Compatible molding inserts: steel, aluminium, nickel alloy

LIT™ - Light Induction Tooling

- OOA: Out of Autoclave process
- Thin shell mold
- Optional silicone membrane

RTF™ – Roctool Thermal Fusion

- In-mold consolidation
- Structural fusion of composite components
- Eliminates secondary assembly operations

PLASTIC INJECTION

Enlarge your processing window when using Roctool Technology

3iTech® - Integrated Internal Induction Technology

- Heat & Cool network integrated in the mold
- High temperature
- Compatible with all steels

USR™ - Ultra Surface Replication

- High replication rate directly from mold to part surface
- Replication levels reach uncharted territories, such as micrometer and nanometer scales

HD Plastics™ - High Definition Plastics

- Improving process conditions & surface quality
- Extensive material database

Premium Surface Finish
Glossy, textured, or matt directly from the mold

Fast & Efficient
Fast and precise heat & cool management

Thin & Complex Parts
Improved flow length for lightweight design

Material Versatility
Commodity, Engineering, and High-Performance Polymers, including PCR grades

ROCTOOL
MOLDING MATTERS.

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