

CASTING CONNECTION

• Your Link to Investment Casting News from Ransom & Randolph •

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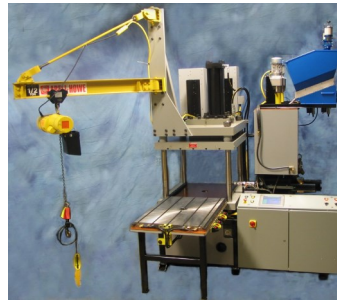
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Partnering with Cleveland Tool & Machine

R&R is pleased to announce our exclusive representation of Cleveland Tool and Machine (CTM) wax injection and ceramic injection machines in North America and Europe.

Based in Brook Park, Ohio, CTM has been providing wax injection and ceramic injection machinery to the investment casting industry since 2002.

Focused on producing the highest quality machinery at competitive prices, CTM's business can be summed up in three words: *quality,*



4 Post Wax Injection Machine

productivity & reliability.

CTM produces four post and C-Frame machines in a variety of sizes.

CTM equipment can be customized to meet your facility's requirements. In addition to manufacturing new equipment, CTM

refurbishes existing machines, potentially providing you with a reduced cost alternative to improve your wax room.

We are confident that our collaboration with CTM will allow us to continue our already strong tradition of providing you with innovative, high quality products with exceptional technical service and customer support.

The **4 post wax injection machines** range in sizes

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R&R Website Gets Facelift

R&R recently published our new and improved website! Our new site has a more modern look and offers visitors a more streamlined experience, with improved resources and functionality designed exclusively for R&R customers.

RANSOM & RANDOLPH
Investing with Innovation™

DENSPLY Home About Us Casting Products Resources Contact Us

Welcome to Ransom & Randolph

At Ransom & Randolph (R&R), *Investing with Innovation™* is more than just a slogan, it's a way of life. Dedicated to advancing the investment casting industry, we have provided founders with innovative product technology, process knowledge and technical expertise since the 1800s. By coupling our revolutionary product developments with our experienced staff, manufacturing and warehousing facilities, we successfully help our customers become casting industry leaders.

Visit us at www.ransom-randolph.com today and experience the difference!

Investing with Innovation™



Meet the Team



Zach Feffer
Production &
Application
Engineer

Zach Feffer, Production & Application Engineer, joined the R&R team in September 2013.

Zach earned his Bachelor of Science majoring in Mechanical Engineering from The University of Toledo in 2012.

Zach's role at R&R encompasses trial set up, on-site trials, technical support, technical calls and

testing customer slurries.

Prior to joining the R&R team, Zach worked as a Process Engineer at NSI, a crankshaft facility, ensuring that the machines in his line were running smoothly and efficiently while adhering to lean manufacturing principles.

Zach is a very mechanically inclined, hands-on individual and

enjoys working on cars in his spare time.

A Weston, OH resident, Zach is currently working on updating his Ranch-style home that he has completely gutted; installing new walls, a new roof and much more.

Zach is engaged to his high school sweetheart, Hannah.

ICI Conference & Expo

Investment Casting
Institute 61st Annual
Technical Conference
& Equipment Expo



The Investment Casting Institute (ICI) is hosting their 61st Annual Technical Conference & Equipment Expo in Covington, KY from October 5th - 8th, 2014.

R&R is pleased to introduce new products at this year's Expo, including MXC Excel concentrate and MXC

Boost X2 concentrate.

In the spirit of the Matrixcote® system, R&R developed MXC Excel concentrates and MXC Boost concentrates after working closely with foundries to improve dewax performance and casting results. The MATRIXCOTE system can be used in a variety of combinations, each

tested to provide best-in-class performance.

R&R's sales and technical teams work closely with customers to identify casting goals and customize systems to achieve those goals.

To schedule a foundry audit with R&R, meet us at the Expo in Booth 307 on October 6th and 7th.

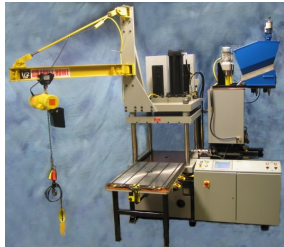
PLEASE JOIN US!

For our Technical Paper Presentation:
Evaluating Spalling Factors through Measuring Intercoat Adhesion

Tuesday, October 7th • 10:30-11:00 AM

CTM Injection Machines

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4 Post Wax Injection Machine with Optional Shuttle Table

from 15-150 tons with a die working area of 14-62", handling both paste/wax and ceramic slurry material (special sizes available upon request).

Standard features include in-line injection system; excellent temperature, pressure and flow control; T-slots on bottom and moving platen; ultra quiet pumping system; easy-to-use touch screen interface in user's preferred language; built to NFPA, ANSI and OSHA safety

standards; and more.

All machines carry a full 1 year warranty on all materials and workmanship.

Contact your R&R Regional Manager to discuss your equipment requirements or secure a quote for your needs.

C-frame injection machines range in sizes from 15-50 tons with a die working area of 14-40", handling both paste/wax and ceramic slurry (special sizes available upon request). CTM Wax injector C-frame injection machines are designed to produce high quality patterns.

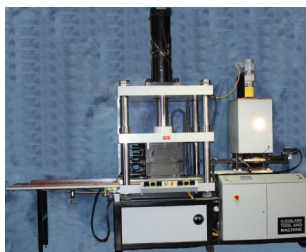
Standard features include in-line injection system; excellent

temperature, pressure and flow control; T-slots on bottom and moving platen; ultra quiet pumping system; easy-to-use touch screen interface in user's preferred language; built to NFPA, ANSI and OSHA safety standards; and more.

All machines carry a full 1 year warranty on all materials and workmanship.



C-Frame Injection Machine



Ceramic Injection Machine

Available in 4 post and C-frame, **ceramic slurry injection machines** range in sizes from 15-100 tons with a die working area of 14-40" (larger sizes available upon request). CTM ceramic injection machines are designed to produce high quality ceramic cores.

Standard features include in-line injection system; hardened components to resist wear; T-slots on bottom and moving platen; ultra quiet pumping system; easy-to-use touch screen interface in user's preferred

language; built to NFPA, ANSI and OSHA safety standards; and more.

All machines carry a full 1 year warranty on all materials and workmanship.

Contact your R&R Regional Manager to discuss your equipment requirements or secure a quote for your needs.

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Investing with Innovation™

We're on the web!
www.ransom-randolph.com

Ransom & Randolph is dedicated to advancing the investment casting industry. R&R has provided foundries with innovative product technology, process knowledge and technical expertise since the 1800s. By coupling revolutionary product developments with experienced staff, manufacturing and warehousing facilities, R&R successfully helps customers become casting industry leaders. R&R is an operating division of DENTSPLY (NASDAQ: XRAY).

R&R's core businesses are composed of Ceramic Shell, Industrial Mold, Jewelry and Dental Investment Casting.

R&R takes great pride in providing customers with a pleasant procurement experience. R&R's Maumee, Ohio based Customer Service team services North America and US export customers. Our UK-based agent, HTM Tradeco, Ltd., provides service for the European Union. From initial order placement through delivery, R&R's Customer Service team takes responsibility for accurate and efficient processing of your material needs. As a result, R&R's Customer Service team is unmatched in the industry.

Interested in receiving your copy
of Casting Connection via email?

Let us know! Send an email to:
Alisa.Rawski@dentsply.com

CTM Injection Machines

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CTM offers an alternative to new machinery, bring new life to your old machines with **remanufacturing***.

Machines are stripped of old components, cleaned, repainted and new injection and electrical control systems are added. Machines are tested prior to shipping and include a 1 year warranty.

Rebuild older units and extend their life while saving as much as 50% when compared to a new machine.

**Not all machines are good candidates for this service.*



Injection Machine Remanufacturing