RANSOM & RANDOLPH

Dental Laboratory Catalog





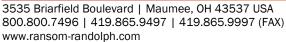






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Founded in Toledo, Ohio in 1872, Ransom & Randolph (R&R) was one of the first dental manufacturers to publish a comprehensive catalog and quickly became a worldwide leader in the dental industry, merging with Dentsply International in 1964. In 2020, R&R set its sights as an independent business to proudly offer traditional lab products worldwide once again under the R&R brand. In this time of change our approach is simple: offer the products our customers need today. We trust that with every purchase, you will experience our vast years of knowledge, quality and service.

Sincerely,

Daniel Nixon, President, Ransom & Randolph, LLC





RANSOM & RANDOLPH

1901 catalog photo credit: www.walkaboutbooks.net





TECHNICAL CAPABILITIES

Laboratory Simulation

From our position as the global leader in dental investment technology 100 years ago to our leadership in adapting this technology into the industries of jewelry, automotive, medical, and aerospace, R&R remains the leader in technical capabilities for lost wax casting. Our research department maintains a multi-million dollar equipped laboratory that is one of the largest. most advanced in investment casting.



Thermal Expansion Dilatometer

Measures the thermal expansion in dimensional changes associated with temperature change



Modulus of Rupture Unit

Measures compressive strength at various points of pressure



Permeability Unit

Measures airflow through materials



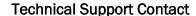
Differential Scanning Calorimetry Unit

Measures heat flows associated with phase changes



Thermogravimetric Analysis

Measures weight changes associated with temperature change



Email us at technical@ransom-randolph.com

Call us at 800-800-7496 (US Toll Free)

Production Simulation

Our team of engineers maintain full product simulation capabilities to assist customers in troubleshooting their processes, whether in the casting of partial dentures frames, gold jewelry, medical implants, or critical aerospace components.



Resin Pattern Printing

3D prints designs with fine detail and excellent burnout capabilities for simulating test parts



Neycraft™ Duplicating Unit

Melts and pours 3 pounds of duplicating material for ease of replication of master models as well as testing for hydrocolloid, gypsum, and investment compatibility



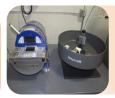
Vacuum & Model Making

Mixing silicon duplicating materials, stones, and investments in a vacuum seal



Burn Out Furnaces

Our Vulcan® burnout furnace, Nabertherm™ burnout furnace, and Hones™ gas furnace processes gypsum-based, phosphate, and ethyl-silicate based investments in a variety of environments at high temperatures to burn out any wax left in a mold



Neycraft™ Centrifugal Caster

Our Nevcraft centrifugal caster, overpressure tilt unit, and pressure-over-vacuum casting unit simulate casting processes used in the global market

Have a question regarding application, troubleshooting, feedback, tips, or need advice?

Ask the experts by contacting our Technical Team for support.

We are happy to help you!



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+49 342 06373999

Specialty Die Stones



Tuff-Stone™ resin die stone

Type IV



A superior, extra-high compressive strength dental resin, specifically designed for dies, denture models, opposing models, and crown & bridge bases. Ideal for applications that require controlled expansion, detailed reproduction, consistency, and high chip resistance.

Color: Golden Brown

44 lb. box......402335



FiberStone™ resin die stone

Type IV



With its trailblazing reinforcing fibers, this patent pending, Type IV die stone inhibits the generation and expansion of cracks in the model, reducing breakage and chipping during model manipulation and cutting. It can reduce the number of pins required during the model building, requiring fewer pours. Patented.

Color: Golden Brown

25 lb. box	.402332
44 lb. box	402330









Die Stones



Produces ultra-hard dies and casts. With its optimum expansion properties, it enhances fit when used for crown & bridge dies and models. Has a velvety-smooth, glaze-like finish to master dies. Grinds easily without chipping. Excellent for use with nonprecious alloys.

Colors: Blue, Green, Ivory

0080
820
0850
0840
0880



A premium quality stone for super-hard casts, dies and cast partial frameworks. With its low expansion, it is ideal for fabrication of models and dies for crown & bridge, and for cast partial frameworks.

Colors: Peach, Tan

25 lb. box

•	Peach	99058
•	Tan	99055
44	lb. box	
•	Peach	499056



An extra strong, low expanding stone. Provides superior reproduction of detail and has excellent stacking qualities. Well suited for models and dies.

Colors: Blue, Pink, White

44	44 lb. box					
•	Blue	PV42155				
•	Pink	PV42157				
•	White	PV42156				



A superior, extra-high compressive strength dental stone, specifically designed for dies, denture models, opposing models and crown & bridge bases. Ideal for applications that require controlled expansion, detailed reproduction, consistency, and high chip resistance.

Color: Golden Brown

44 lb. box.....PV42330



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Model Stones



An extra smooth, low expanding stone for all types of models.

Color: Buff

44 lb. box......402125



An all purpose stone for fabricating models and flasking acrylic dentures. May be used in any case where plaster or stone is indicated.

Colors: Blue, Buff

25 lb. box

•	Blue	99200
	Buff	
44	lb. box	
•	Blue	499201
•	Blue Fast	400199
	Ruff	499204

Base Stones



A high quality, high strength dental stone used for dental casts, investing, and articulator mounting.

Colors: Cream, White

25	lb. box	
•	Cream	99043
	White	
	lb. box	
•	Cream	499044
•	White	499046



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Orthodontic Stones & Plasters



A hard, pure white dental stone with excellent reproduction of details designed for orthodontic working models.

Color: White

25 lb.	. box	99206
44 lb.	. box	499207



A pure white, fine plaster, specially formulated for orthodontic study models.

Color: White

25 lb. box	99216
44 lb. box	

Plasters



A fine, pure white plaster for hard, dense models, flasking, articulating casts, and general laboratory use.

Color: White



A general purpose, dental grade, Type II model plaster of exceptional quality and value. Ideal for general model work and articulation. Available in Regular and Fast formulas.

Color: White

44 lb. box

•	Fast
•	Regular400211



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Typical Material Properties*

	Туре	Color	Water to Powder Ratio (ml/g)	Setting Time (minutes)	Set Expansion (%)	Minimum Compressive Strength at 1 Hour (psi)	Minimum Dry Compressive Strength (psi)
Glastone 3000 die stone	V	Blue, green, ivory	21/100	10-13	0.16-0.3	7,000	16,000
FiberStone resin die stone	IV	Golden brown	19/100	10-13	≤ 0.13	6,000	14,000
Master Model die stone	IV	Blue, pink, white	24/100	8.5-10.5	≤ 0.15	5,000	10,000
Tuff-Stone die stone	IV	Golden brown	19/100	10-13	≤ 0.13	8,000	19,000
Tuff-Stone resin die stone	IV	Golden brown	19/100	10-13	≤ 0.13	6,000	12,000
Glastone die stone	IV	Peach, tan	22/100	7.5-9.5	≤ 0.15	3,000	9,000- 15,000
Castone dental stone	Ш	Cream, white	30/100	8-10	≤ 0.2	3,000	8,000
LabStone dental stone	Ш	Fast set: Blue Regular: Blue, buff	30/100	Fast set: 5-7 Regular: 8-10	≤ 0.2	3,000	8,000
OrthoStone dental stone	III	White	27/100	9-11	≤ 0.2	3,000	10,500
Uni-Rock dental stone	III	Buff	30/100	8.5-10.5	≤ 0.14	3,000	8,500
Model Plaster	Ш	White	47/100	7-9	0.06-0.3	1,300	3,000
Ortho Plaster	Ш	White	37/100	12-14	0.06-0.3	1,300	6,500
Plaster	Ш	White	47/100	Fast set: 4-6 Regular: 6-8	≤ 0.25	1,600	3,500

^{*}These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification



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DUPLICATING MATERIALS

Reversible Hydrocolloids



A premium, all-purpose, fully reversible duplicating hydrocolloid. User friendly with a low melting temperature, minimal hold time, and easy cleanup. Ideal for producing both refractory and dental stone models, as well as molds for the fabrication of partial and full dentures utilizing the fluid resin pouring technique. Can be used with stones, ethyl silicate investments, and phosphate investments.

Color: Blue



A premium, all-purpose, fully reversible duplicating hydrocolloid. User friendly with a low melting temperature, minimal hold time, and easy cleanup. Ideal for producing both refractory and dental stone models, as well as molds for the fabrication of partial and full dentures utilizing the fluid resin pouring technique. Can be used with stones, ethyl silicate investments, and phosphate investments.

Color: Clear/Beige

7.5 kg pail......N021955



A premium, fully reversible hydrocolloid. This specialized duplicating material is ideal for producing ethyl silicate refractory models, as well as molds for the fabrication of partial and full dentures using the fluid resin pouring technique. Can only be used with ethyl silicate investments.

Color: Clear/Beige

7.5 kg pailN021055



A premium, all-purpose, fully reversible concentrated duplicating colloid. Just add water to make 3 gallons. Ideal for producing both refractory and dental stone models, as well as molds for the fabrication of partial and full dentures utilizing the fluid resin pouring technique.

Color: Red

1 Gallon*.....N021985

*Makes 3 gallons. Just add water.



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DUPLICATING MATERIALS

Duplicating Silicones



Lab-Flex™ 16 silicone rubber



An addition silicone (polyvinylsiloxane [PVS]) duplicating material, ideal for model duplication in the dental laboratory. The 1:1 mixing ratio between base and catalyst makes measuring and mixing easy. Suitable for mixing by hand or mechanically, because it has elevated fluidity and does not require a vacuum. It copies details precisely, has long term dimensional stability, and is resistant to contact with various types of resins, investments and gypsums. Recommended for all duplication techniques.

Base Color: Purple / Catalyst Color: White

4.4 lb. kit (2.2 lb. each)05000



Lab-Flex™ 75, 85 & 85 Touch dental putty

Lab putty







A polyvinylsiloxane (PVS) impression material, available in three formulas. Mixed in a 1:1 ratio. Lab-Flex 75 (75 Shore-A) offers excellent consistency and workability and is ideal for scanning with CAD/CAM systems. Lab-Flex 85 and Lab-Flex 85 Touch (85 Shore-A) are rigid setting and characterized by an excellent balance between elasticity and final hardness.

Base Colors: Lab-Flex 75: Light Blue, Lab-Flex 85: Green, Lab-Flex 85 Touch: Dark Blue / Catalyst Color: White

Lab-Flex 75 (1600 gram kit)	04000
Lab-Flex 85 (22 lb. kit - 11 lb. ea.)	
Lah-Fley 85 Touch (22 lb. kit - 11 lb. ea.)	







Baseplate Wax



A high quality baseplate wax that carves easily at room temperature and boils-out cleanly.

Color: Pink

5 lb. carton.....



An all-purpose, high-grade wax that is tough, pliable, and boils out cleanly.

Color: Pink

Boxing Wax



A flexible, tacky wax ideal for boxing impressions.

Color: Pink

5 lb. carton...... 08100

Bite Rim Wax



R&R bite rim wax

Preformed wax sticks ideal for establishing vertical dimension and arranging artificial denture teeth.

Color: Red

5 lb. carton



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Waxes & Resin Patterns

Pre-formed Patterns

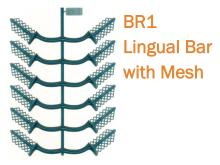


Flex-Form™ resin patterns

A proprietary blend of plastic and wax made in a pre-made shape that provides excellent burnout capabilities for optimal castings.

The variety of shapes make Flex-Form resin patterns ideal for any dental lab.

Tip: To increase the adhesion between the Flex-Form resin patterns and model, use Flex-Tack™ solution.



Ideal for mandibular RPD wax-ups.

Set of 8 sheets.....BR1



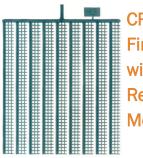
Ideal for mandibular RPD wax-ups.

Set of 8 sheets.....BR2



Provides embedded reinforcement to strengthen upper or lower dentures, implant dentures, or edentulous with minimal space.

Set of 8 sheets.....CR2



Finish Line with Retention Mesh

Ideal for modelling upper-jaw frames.

Set of 8 sheets.....CR3



Versatile to meet your requirements. Can be adapted to all teeth as Akers or Roach clasps.

Set of 8 sheets......G1



Versatile to meet your requirements. Can be adapted to all teeth as Akers or Roach clasps.

Set of 8 sheets......G2A



Versatile to meet your requirements. Can be adapted to all teeth as Akers or Roach clasps.

Set of 8 sheets......G2B



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Pre-formed Patterns



Versatile to meet your requirements. Can be adapted to all teeth as Akers or Roach clasps.

Set of 8 sheets......G2C



Versatile to meet your requirements. Can be adapted to all teeth as Akers or Roach clasps.

Set of 8 sheets......G2D



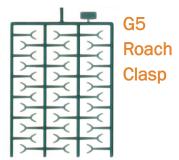
Ideal for most bi-cuspids.

Set of 8 sheets......G3



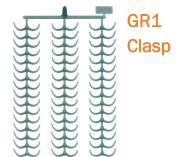
Features both bi-cuspid and molar clasp lengths on the same sheet.

Set of 8 sheets......G4S



Generally used for cuspids and bicuspids. Can easily be modified to clasp molars.

Set of 8 sheets......G5



Ideal for bi-cupids and molars. The longer clasp is for retentive undercut while the shorter is for bracing the side of the tooth.

Set of 8 sheets.....GR1



Ideal for bi-cupids and molars. The longer clasp is for retentive undercut while the shorter is for bracing the side of the tooth.

Set of 8 sheets.....GR2



Features a half-teardrop profile, making it ideal for the manual arch.

Set of 8 sheets.....IB1



Features a half-teardrop profile, making it ideal for the manual arch.

Set of 8 sheets.....IB2



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Pre-formed Patterns



Features a half-teardrop profile, making it ideal for the manual arch.

Set of 8 sheets.....IB3



Preformed mesh that adapts easily to edentulous areas.

Set of 8 sheets.....RT1



SB Palatal Bar

Features a half-round profile, making it ideal for maxillary palatal bar frameworks.

Set of 8 sheets.....SB



Generally used for maxillary frameworks. Can be used for lower lingual aprons.

Set of 8 sheets.....22GA



Generally used for maxillary frameworks. Can be used for lower lingual aprons.

Set of 8 sheets.....24GA



Flex-Tack™ solution

An adhesive liquid formulated to increase adhesion between plastic patterns and models. The 2 ounce jar features a brush in the lid for easy application.

2 oz jar (4 count box)......M068750 32 oz can.....M06700



INVESTMENTS

Phosphate Investments



Biovest® investment & Universal **Expansion liquid**





A high expanding, extra strength investment ideal for casting printed patterns or traditional wax patterns using the flash-fire method. Provides smooth castings with a short working time. Used to cast precious and nonprecious, high temperature alloys for crown & bridge, partial denture frames, and pressing ceramics.

Biovest® investment

•	100 gram pouches (qty. 80)	26421
	400 gram pouches (qty. 30)	
	25 lb. box	
	versal Expansion liquid	
	32 oz.	26410

Universal Expansion liquid can be used to adjust expansion, but is not required for use with Biovest investment.



OxyplusTM investment & liquid



An investment and liquid combination that provides easy removal. Ideal for casting low expanding printed patterns or traditional wax patterns. Provides smooth castings with a short working time. Used to cast precious and nonprecious, high temperature alloys for partial denture frames.

Oxyplus™ investment

- Oxyplus™ liquid
- 1 gallon jugN400047



Multi-Vest® investment & Universal **Expansion liquid**





A phosphate-bonded investment ideal for casting using traditional methods. Provides smooth castings with a short working time while reducing the risk of flashing. Used to cast precious and nonprecious, high temperature alloys for crown & bridge and partial denture frames.

Multi-Vest® investment

• 400 g. pouch	M14292
33 lb. pail	
Universal Expansion liquid	
• 32 07.	26410

Universal Expansion liquid can be used to adjust expansion, but is not required for use with Multi-Vest investment.



Aquamex™ Water Mix oxyphosphate investment



An oxyphosphate-bonded investment that uses water as a binder. Provides smooth castings with a short working time. Used to cast precious and nonprecious, high temperature alloys for partial denture frames. Burnout in a gas or electric oven.

40 lb. pailN400010



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INVESTMENTS

Ethyl Silicate Investments



Chromex[™] investment & liquids



A three-part ethyl silicate investment formulated for strength to reduce potential cracking during burnout. User-friendly, fool proof technique ensures exceptional results. Used to cast precious and nonprecious, high temperature alloys for partial denture frames. Available in Regular and Fine formulas.

Chromex[™] Regular investment

• 47 lb. box	N400102
Chromex [™] Fine investment	
• 47 lb. box	N400108
Chromex [™] liquids	



Neoloy® 'E' investment with **ABC Binders**



An ethyl silicate investment system consisting of investment and three liquids. Provides an extended working time for ease of use. Used to cast precious and nonprecious, high temperature alloys for partial denture frames.

Neoloy® 'E' investment

- 47 lb. boxN400022 **ABC Binders**
- 3 gallons (1 gallon each)......N400023

Gypsum Investments



Univest™ investment





A gypsum-based investment developed for high reliability and compatibility with low heat partial denture alloys. Used to cast low temperature alloys for crown & bridge and partial denture frames.

25 lb. box	PV2600
44 lb box	PV2605

Mold & Pattern Coat



Protective Coat powder & liquid/ **All Purpose Protective Coat**

Refractory powders and a specialized liquid binder specifically designed to be used as a wash coat for refractory models made in Perflex® duplicating material and as a face coat for plastic/wax patterns. Can be mixed to your preferred thickness or bought as a pre-made slurry (All Purpose Protective Coat).

Protective Coat powder

8.8 lb. pailN	026204
Protective Coat liquid	
1 liter bottleN	025835
All Purpose Protective Coat	

200 ml container (multiples of 4)......N025920



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ALLOYS & SUPPORT MATERIALS

Available at shop.ransom-randolph.com or from an approved distributor.

Alloys



Neoloy® Plus CoCr alloy

Casting Rings



Foil Lined Rings

Provides excellent homogeneity and precise alloy chemistry with a balanced formulation of cobalt, chromium and molybdenum. Allows quick melting and oxidation reduction and delivers inclusion -free precision castings with adjustable spring hardness, fracture resistant elasticity, and a brilliant luster that is highly resistant to corrosion. Ideal for cobalt-chromium cast partial dentures.

1 kg resealable pouch......600000

Foil-lined disposable ring. 3.5" (89 mm) diameter x 3" (75 mm) tall. 200 count carton 71000

Dips



R&R Rosin Dips



R&R Cold Dip

Ideal for sealing partial denture refractory models. Offers a low melting point of 250°F (121°C). Available in Standard and Hard formulas.

R&R Rosin Dip

10 lb. box06500 R&R Rosin Dip Hard

An environmentally friendly, cold rosin dipping solution. Ideal for sealing refractory models.



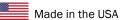
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ABRASIVES

Fused Alumina





R&R® WFA white fused alumina

Fine blast abrasives with over 99% purity used for cleaning appliances and divesting.

44 lb. bag

100 microns 50 microns

100 microns M19300



R&R Ground Walnut Shells

An abrasive media to blast, clean, and polish acrylics. Provides an excellent finish without scratching or pitting. Effective in deburring and deflashing products. Due to its resistance to breakdown, it can be reused many times, reducing costs.

50 lb. bag/box

12/20......07400 10/12......07500





Burnout Furnaces



Vulcan® single-stage burnout furnace

Vulcan® 3-stage burnout furnace

Burnout furnace featuring a single-stage controller that provides faster heating and cooling than full firebrick as well as a longer life and more durability than fiber construction. Each Vulcan includes a 1-year warranty.

S-550 100-120V	5355730002
S-550 200-240V	5355730001

Burnout furnace featuring a three-stage controller that provides faster heating and cooling than full firebrick as well as a longer life and more durability than fiber construction. Available in two standard muffle sizes. Each Vulcan includes a 1-year warranty.

3-130 200-240V	5355740001
3-130 100-120V	5355740002
3-550 200-240V	5355740003
3-550 100-120V	5355740004

Vulcan Burnout Furnace Spare Parts

Clutch & Coupling Assembly	9491056
Encoder	SRM-02844
Exhaust Port Plug, 1" Kit	9491093A
Insulation, Door-130	9493325
Insulation, Door-550	9493365
Membrane Switch 3-130	FP-02899
Membrane Switch 3-550	FP-02881
Motor; Spring	9356001
Rubber Foot	9390616
Service Board 3-Stage	DENT3STAGE
Service Board Single-Stage	DENTA
Service Muffle 550 120V	9493471
Service Muffle 550 230V	9493423

Service Muffle Assy 130 120V	9493422
Service Muffle Assy 130 230V	9493420
Shelf: Free Standing Model 550	9493327
Switch	1835.3118
Switch, Door	9493338
Thermocouple	TC-005
Tongs, MFG	9491010A
Tray: Bottom Model 130	9353053
Tray: Bottom Model 550	9353057
Vulcan 120 Volt Power Cord	FP-02842
Vulcan 240 Volt Power Cord	FP-02839
Vulcan 240 Volt Power Cord Euro	FP-02841

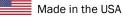


RANSOM & RANDOLPH









EQUIPMENT

Duplicating Units



Neycraft™ Multizone™ duplicating unit

An innovative and user-friendly unit capable of meeting the changing needs as workflow increases and decreases. Designed with a number of unique operating features:

- Smart capability to work with variable capacities
- · Lid safety switch to prevent fire, damage, and injury
- Complete user temperature control
- Power saving feature to extend motor life
- Preprogrammed and ready-to-use with the ability to adjust features easily

3 gallon unit (Melts 1, 2, or 3 gallons of material)

• 120 V535631000

Centrifugal Casting Machines & Spare Parts



Neycraft™ centrifugal casting machine

Neycraft[™] centrifugal casting machine Spare Parts

Counterbalance Weight	9491066
Crucible Former 2.0 Dia	9357118

Used to melt and cast metal into the replica investment cavity by centrifugal force. Designed with a number of unique operating features:

- Built-in protective safety shield
- Easy winding/locking and release mechanism
- Instant balance with counterbalance weight
- Universal flask carriage to accommodate flasks up to 4" x 4"
- Two-way mounting base for quick setup and storage

Neycraft™ centrifugal casting machine 9491045



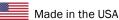
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Testimonials

"Perfect Replacement!"

Univest™ investment perfect replacement for Ticonium Investic investment!

- CCDental Design, July 2023





"I've Used 264 Pounds So Far!"

Uni-Rock™ dental stone has just the right amount of working time to flask a metal partial. Strong enough for denture or partial models and opposing models for crown and bridge.

- Steve's Dental Lab, August 2023

"Very Accurate!"

Master Model™ die stone works great for very accurate models like we use for partial frameworks.

- Connie Rose, December 2021





"Best Material I've Ever Used!"

After using Multi-Vest™ investment for the past 8 to 10 months, there is no doubt it is the best material I've ever used in 20 years. It's an absolutely spectacular investment and I feel grateful to have been turned onto it. I've had great success with it. Thanks for everything.

- Nick Hayden, August 2021

"It's Great Stuff!"

I've been using Uniflex™ duplicating material and I get very accurate duplications and the material holds up very well and lasts fairly long with recycling over and over. I've been very, very happy with it. Thanks for everything.

- Nick Hayden, August 2021





RANSOM & RANDOLPH





R&R'S DENTAL ROOTS

Founded by John R. B. Ransom (1872), Thaddeus R. Randolph joins as partner (1876)



c. 1890-1905

R&R releases dental cabinet line *Dental cabinet photo credit: dougschmittantiques.com



1900-1920

R&R publishes The Dental Summary, the precursor to JADA (The Journal of the American Dental Association)

1931

R&R launches Castone® dental stone, a type III dental stone

R&R becomes the fourth largest dental dealer chain and is sold to Dentsply

1964



R&R acquires the PreVest™ line of dental stones, plasters and investments

R&R acquires the rights to BANDUST™ technology from Elephant Dental B.V., reducing up to 99% of respirable silica in investments



2020

R&R divests from DS and assumes DS traditional lab portfolio

R&R proudly celebrates its 150th anniversary

2022



R&R's Maumee, OH production facility is expanded by 50% to accommodate company growth



R&R becomes a founding member of the American Dental Trade Association (ADTA), now known as the Dental Trade Alliance (DTA)

Ransom becomes President of ADTA

1900



R&R introduced the first vacuum casting appliance, the Elgin (later nicknamed the Pig because of its

R&R creates an Industrial Division, leveraging dental casting techniques to produce industrial precision castings



1968

R&R sells its dental retail outlets and retains its wholesale operations

R&R absorbs manufacturing and R&D personnel from Austenal® Laboratories



2019

R&R acquires the rights to the former Kerr™ gold casting investment line

R&R expands traditional dental lab line, leveraging industrial technology to develop FiberStone™ resin die stone





Ransom & Randolph GmbH opens its doors in Rötha, Germany, providing order and shipping support for European and United Kingdom customers

Proudly serving the dental industry for over 150 years!

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