

EQUIPMENT CATALOG

2024
DIGITAL EDITION



THE GLOBAL ONE-STOP JEWELRY SUPPLY SHOP

To Our Valued Customers:

Romanoff is your leading source for the latest and most advanced 3D Printing and Scanning technology, Laser Engraving and Welding equipment as well as the largest selection of premier lost wax casting machinery.

It is our goal at Romanoff to provide our customers with cutting edge products and knowledge that will allow them to create unique designs and fulfill their wants and needs at a competitive price. Our friendly, knowledgeable and professional staff will advise, inspire and educate our customers' projects and needs.

We treat each customer as an individual and sincerely value our relationships by constantly offering the industries best technical after sales support.

Romanoff was established by Barney and Jessie Romanoff in 1949 in a small, 300 square foot New York City loft. Today, Romanoff is housed in a modern 40,000 square foot building on Long Island, New York. Bob Romanoff has been leading the Romanoff company for 50+ years and his son Brian (3rd generation) has been working by his side for 30+ years. Brian's children (4th generation) ensure that the company will continue to grow for many years to come.

We truly believe that our latest catalog will offer great assistance to you and your future manufacturing requirements.

Sincerely,

Bob & Brian Romanoff

Bob Romanoff, CEO

Brian Romanoff, President

Since 1949

ESTABLISHING CREDIT

All accounts are shipped by payment in advance, by credit card or by check unless credit is established. Freight is always prepaid. To establish credit (open account) with us, accounts must fill out our online credit application and provide 3 known trade references. OPEN ACCOUNT TERMS: NET 30 DAYS. There is a \$30 fee for all returned checks. ASK US ABOUT LEASING OPTIONS

SHIPPING INFORMATION:

Shipping will be charged on all orders. We select the best means of shipping at our discretion unless shipping instructions are specified by the customers when placing the order. Freight is usually F.O.B. Amityville, NY, however certain equipment is shipped F.O.B. Factory of manufacturer. All shipments through Romanoff must be insured. When shipping of hazardous materials is prohibited by specific means, we ship by the best method permissible. Carriers charge an additional fee for shipping hazardous items.

CRATING AND PACKING:

Normal packaging is included. However, there are wood crating charges on some large and heavy items to help prevent damage to them during shipping.

DAMAGED GOODS:

Extreme care is taken to ensure that items are packed well for shipping. However, on occasion, damage may occur. The carrier is responsible for

loss or damage since all products are sold F.O.B. amityville, NY. ACCEPTANCE OF A SHIPMENT AS DELIVERED IS YOUR ACKNOWLEDGEMENT THAT THE SHIPMENT WAS RECEIVED IN GOOD CONDITION. THEREFORE, DO NOT SIGN FOR OR ACCEPT A SHIPMENT UNLESS THE DELIVERING AGENT NOTES THE NATURE AND EXTENT OF THE DAMAGES. CLAIMS FOR DAMAGES, VISIBLE OR CONCEALED, CANNOT BE FILED BY US. CHECK YOUR SHIPMENT CAREFULLY, INCLUDING PACKING MATERIALS FOR ALL ITEMS.

PRICES:

All prices in this catalog were current at time of printing. However, due to changing costs beyond our control (e.g., currency fluctuation), prices are subject to change without prior notice. Prices do not include shipping and handling charges.

RETURNS AND REPAIRS:

If you wish to return an item, it must be returned new, unused, freight prepaid, and in its original packaging. Any items returned more than 30 days from the invoice date will be subject to a minimum 30% restocking charge. You also must include a copy of the invoice or packing list to insure proper credit. Special order, non-stocked items (i.e. not in this catalog), or any item made to your specifications are not returnable or cancellable. There is a minimum \$75 charge to estimate the cost of your repair. This charge is waived if you authorized the repair. All repairs require a signed form. Estimates on 3D printers have a minimum \$250 estimate fee.

IMPORTANT:

Please note that all products sold by Romanoff are meant to be purchased and used by professionals who have the knowledge of their safe and proper use.

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Be Sure to Visit Romanoff.com!

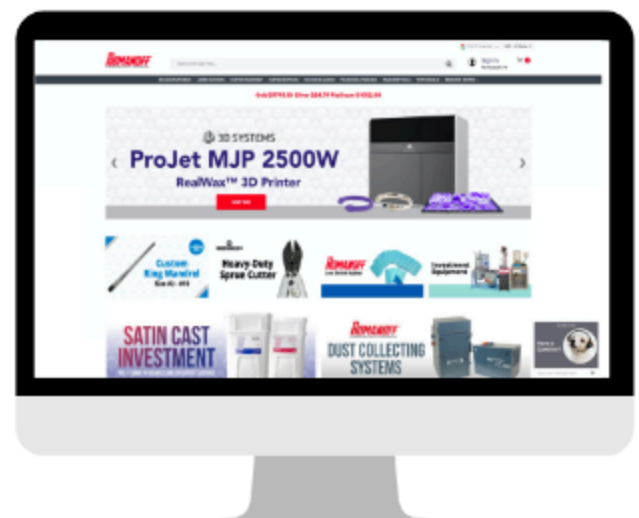
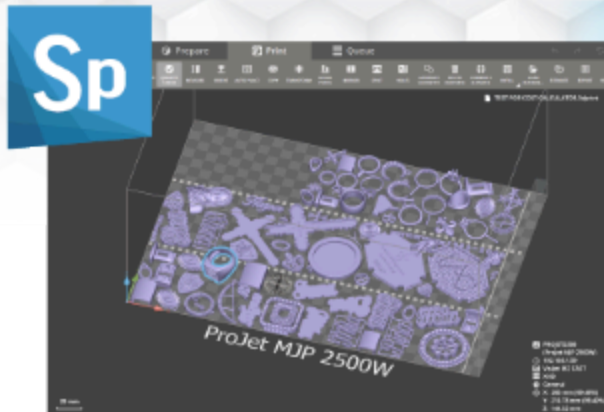


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FOR ANY AND ALL INQUIRES, CALL OR CLICK TODAY!



Streamlined All-In-One 3D Printing Solution

3D Sprint® is exclusive software from 3D Systems for preparing and optimizing CAD and polygon data and managing the additive manufacturing (AM) process for 3D Systems multi-jet printing (MJP).

Romanoff offers optional **3D Sprint Software Training** to get you up to speed with your new 3D Systems purchase and straight to your production in record time!

Import



Import native CAD files from industry-leading CAD systems, reducing the need for file repair and fixing, shortens file preparation time and facilitates the design-to-print process.

Place



Maximize efficiency and productivity in 3D printing by using custom placement styles. This includes requirement-driven orientation, dense 3D nesting, and automatic pre-printing quality checking.

Repair



Automatically analyze part geometry; correct errors for translation issues in your CAD or STL design files and bad polygon geometry in 3D scans.

Support



Achieve better surface quality for printed parts that are easier to remove using less material and post processing with automatic, intelligently fine-tuned support generation.

Print



Achieve accurate, slicing, build times and material estimates. Submit print jobs directly from your print work space or load 3D Sprint build files created on another system directly to the printer.

NEW!

68-3605W

VisiJet® Wax Jewel Ruby

Durable Wax Build Material

Patterns produced using VisiJet® Wax Jewel Ruby material are durable and can withstand handling through the entire lost wax casting process.

They're especially advantageous for in creating **lightweight filigree**, **thin wire mesh designs**, and **in-stone casting**, opening up new possibilities in wax 3D printing.

Increased productivity and cost savings by reducing the time and costs associated with fragile patterns breaking.

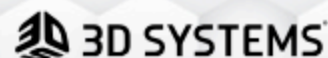


Supports stone-in-place casting with ease!



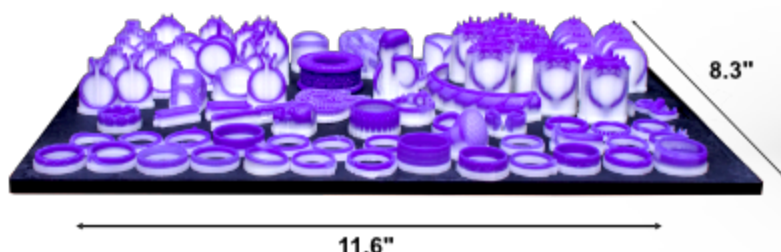
ProJet MJP 300W

MultiJet Wax Pattern 3D Printer



RealWax®, Real Results

The new **ProJet MJP 300W Plus** is a 100% wax jewelry pattern 3D printer that adjusts to your workflow, delivering from several short-run batches a day to the next day for larger builds at high productivity. With its new **UHD** and **QHD** printing modes, you can choose between **ultra-high throughput** and **extreme resolution** with **double the detail!**



68-300WP



NEW!

**Now 40% Faster with
50% better X & Y Surface Detail!**

Features & Benefits

- Unmatched speed through **MultiJet Printing Technology**
- **Consistent casting results** with 100% **RealWax®** build & support material
- **Fast and easy post-processing** with **VisiJet® M2** dissolvable support material
- **VisiJet® M2 Build Material** melts like standard casting waxes with **negligible ash content**

Specifications:

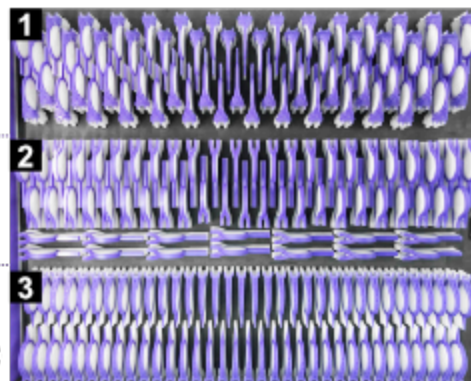
Item #	68-300W
Printer Size	44" L x 29" W x 42" H
Weight	Uncrated: 465 lbs Crated: 715 lbs
Included Software	3D Sprint™ (1 License)
Warranty	1 Year Parts and Labor Extended Warranty
Build Material	VisiJet® M2 Cast (68-2501W-1) VisiJet® Jewel Red (68-364W-1) VisiJet® Jewel Ruby (68-3605W)
Support Material	VisiJet® M2 SUW (68-2502W-1)

MJP 300W Printing Throughput

67 rings
(Lane 1)

134 rings
(Lanes 1 & 2)

201 rings
(Lanes 1, 2 & 3)



Build Modes, Build Times, & Resolution (Measured in Microns [μm])

	QHD	ZHD	XHD	UHD
Build Envelope	11.6" L x 8.3" W x 5.6" H			
Resolution (X, Y & Z)	2000 x 1800 x 2900 DPI; 8.8 μm	1200 x 1200 x 3200 DPI; 8 μm	1200 x 1200 x 1600 DPI; 16 μm	1200 x 1200 x 1000 DPI; 25 μm
Typical Accuracy	±0.004 in per in (±0.1016 mm per 25.4 mm) of part dimensions			
Build Speed (1"/25 mm per hr)	1 Lane: 2 hr 2 Lanes: 31 hr 3 Lanes: 40 hr	1 Lane: 8 hr 2 Lanes: 16 hr 3 Lanes: 24 hr	1 Lane: 4 hr 2 Lanes: 8 hr 3 Lanes: 16 hr	1 Lane: 2.5 hr 2 Lanes: 5 hr 3 Lanes: 7.5 hr



VisiJet® M2 MJP Series Build & Support Material

Build: A durable casting wax that has excellent and stable thermal conditions for perfect castings and clean burnout with regular investment products and standard burnout curves.

A1. Traditional Wax. **A2.** Flexible. Stone-In-Place Casting **A3.** Durable. Stone-In-Place Casting

Support: An eco-friendly, hands-free dissolvable wax used to support 3D models during printing. Its low softening and melting points ensure complete removal. **A4.**

Description	Size	Item #	Each
A1. VisiJet M2 Purple Build Material	1.5 kg	68-2501W-1	1,005.00
A2. VisiJet M2 Jewel Red Build Material	1.5 kg	68-3604W-1	\$1005.00
A3. VisiJet M2 Ruby Build Material	1.5 kg	68-3605W	\$1005.00
A4. VisiJet M2 White Support Material	1.6 kg	68-2502W-1	\$482.00

Benchmark Dewaxer / Stirrer System

Used to remove 3D printed wax patterns from build plates and their dissolve support material from their models. Comes complete with heated base unit, digital thermometer with probe, heat resistant 1.65 L Pyrex bowl, and mesh strainer with sturdy supports.

Description	Item #	Each
B. Benchmark Dewaxer / Stirrer System	78-8500-DWS	\$1,363.20

95% Isopropyl Alcohol

A multi-purpose liquid compound with excellent detergent properties ideal for the removal of support material on 3D printed wax patterns. Most effective when gently heated at a controlled temperature of 32° - 34°C. Caution: Flammable.

Description	Item #	Each
C1. 1 gal of 99.5% Isopropyl Alcohol	80-0920	\$42.50
C2. 5 gal of 99.5% Isopropyl Alcohol	80-0920-5GL	\$191.50

Particulate Filter with Handle

Removes particulates, odors, and gasses from the build area. Check every 3 months and replace if necessary. Handle for easy removal.

Description	Size	Item #	Each
D. Particulate Filter w/ Handle	12 x 14 x 4"	68-2500W-33	\$139.95

Romanoff Model Shield

Protects your VisiJet models and returns their vibrant colors and aesthetic look post processing. Excellent for display pieces. Add 25% to your alcohol bath to improve the de-waxing process and improve model strength. Sold in 1 gallon bottles.

Description	Item#	Each
E. 1 gl model Shield	68-2515W-GL	\$98.08

Planerizer & Motor Drive Belts

Description	Item #	Each
F1. X-Axis Drive Belt	68-2520W-B1	\$98.15
F2. Planerizer Drive Belt	68-2519W-B1	\$39.50
F3. Z-Axis Drive Belt	68-2519W-B2	\$52.45

Planerizer Roller Kit

The Planerizer is used for smoothing each layer of the 3D wax build. This component must be installed by a certified Romanoff technician.

Description	Item #	Each
G. Planerizer Roller Kit	68-2519W	\$460.00

Tiger3D Consumables



3D Printer Resins

Tiger3D offers several photopolymer 3D printer resins designed for various 3D printing applications ranging from lost wax casting, prototyping, mold making and even microfluidics.

Burgundy & Jade: For lost wax casting. Formulated for clean burn-out with zero ash content.

Black: For prototyping applications. Commonly used for producing jigs and fixtures. Firm and strong when fully cured.

Clear: For microfluidic device fabrication. It's clear as glass with very low viscosity. Print the smallest enclosed micro-channels at 0.35mm.

Description	Size	Casting Qualities	Item #	Each
A1. Jade Resin	500g	Fine Detail	78-5002GC	\$159.30
A2. Burgundy Resin (Most Popular!)	500g	High Wax Content	78-5002B	\$149.95
A3. Black Resin	1kg	Firm and Strong	78-5004A	\$359.00
A4. Clear Resin	1kg	Low Viscosity	78-5011	\$458.00



Tiger3D Teflon Tanks Pro Teflon Tank:

Holds 3D Printer Resin material and where 3D models are grown from.

Reinforced with a metal plate bottom for enhanced support and less distortion during printing. Compatible with 1st gen Tiger3D, Tiger3D Plus & APEX PRO series Tiger3D Printers.

Description	Size	Item #	Each
B. Tiger3D APEX PRO Teflon Tank	245 x 150 x 36mm	78-60157	\$235.00



UV Curing Lamp

Features a timer for automatic lamp shut-off after 120 or 180 seconds. During the UV curing process, parts are commonly submerged in water in a clear glass tray. Also available in 220V.

Description	Item #	Each
C. Tiger3D Printer 110V UV Curing Lamp	78-5010	\$109.95



Soft Tank Scraper

Used to stir resin prior to each build and safely remove residual cured resin residue from the bottom of the the printer's resin tank.

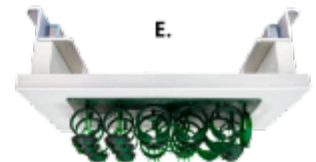
Description	Size	Item #	Each
D. Tiger3D Soft Tank Scraper	100 x 27 x 0.1 mm	78-5007	2.99



Tiger3D Build Plate

For use with all Tiger3D Series printers. The build plate is securely mounted to the Z Motor and raises out of the resin tank layer by layer until the resin build is completed.

Description	Size	Item #	Each
E. Tiger3D Build Plate	190 x 90 mm	78-5006	\$198.75



Perforated Glass & Glass Tray Container

Perforated Glass: Essential to a Tiger's Protective Layering System. Replace when the surface becomes cloudy. **Glass Tray:** Used to catch any resin that may accidentally spill onto the 3D printer's projector. Compatible with all of Tiger3D series printers.

Description	Size	Item #	Each
F1. 1 st gen. Tiger3D XXL & Tiger3D APEX PRO	197 x 140 x 3mm	78-5008-XXL	\$222.75
F2. 1 st gen Tiger3D & Tiger3D APEX	188 x 88 x 3mm	78-5009	\$206.00
G. Tiger3D Glass Tray Container	240 x 175 x 15mm	78-5008	\$229.00



Tiger3D Scanning Spray Plus

Tiger3D Scanning Spray Plus enables our Tiger3D Scanners to see every detail of the object you wish to scan. Creating a digital file of your preferred object is as simple as spray, scan, save!

Description	Item #	Each
H. Tiger3D Scanning Spray Plus - 9 oz	78-7025	\$85.50





Tiger3D APEX 3D Scanners



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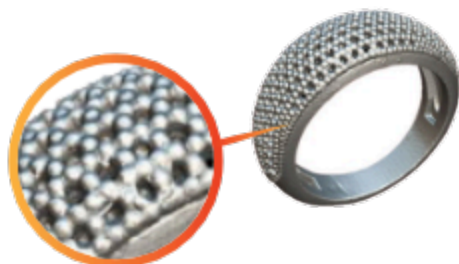


3D SCAN



3D PRINT

From scanner to printer in a matter of minutes!



Exceptional detail and accuracy!

Tiger3D APEX and **APEX PRO** scanners are professional, high-resolution, desktop 3D scanners specifically designed to scan small objects with intricate geometries and fine details that require the highest scanning precision and accuracy. Offered in two models; the **5MP Tiger3D APEX Scanner** and the **6.4 MP Tiger3D APEX PRO Scanner**, with a dual-axis arm.

Perform multi-angle scans that reduce scan data noise and minimizes blind spots. Their advanced Tiger3D software provides a step-by-step process with key features represented by intuitive icons.

Rapid High-Quality Scanning

Tiger3D APEX Scanners are the ideal solution for jewelry and other industrial applications. Commonly used for matching a lost earring, creating an STL file of an organic object, scanning a faceted stone for remounts, creating bridal sets, product development and reverse engineering.

Simple Scanning Software

Both scanners come with intuitive and easy-to-use scanning software, making them easy to operate even for those who are new to 3D scanning. With enhanced data editing and processing capabilities, 3D scanning is as simple as "scan, align, merge," with results in a matter of minutes.

Specifications:	APEX SCANNER
Part Number	78-7013
Scanning Resolution:	10 μ m
Pixel Sensor	2 x 1.3 MP
Point Spacing	0.06mm
3D Scanning Area (Field of View)	4"
3D Scanning Volume	4" x 4" 3"
3D Scanning	Principle Phase Shifting Optical Triangulation
Light Source	White LED
PC Requirements	CPU: Intel i5 or above Ram: 8GB or more GPU: Nvidia Geforce 1060 2GB or higher O/S: Windows 8 64 bit or above

Tiger3D Scanning Spray Plus

Tiger3D Scanning Spray Plus enables our Tiger3D Scanners to see every detail of the object you wish to scan. Creating a digital file of your preferred object is as simple as spray, scan, save!



Description	Item #	Each
Tiger Scanner Spray Plus 9 oz.	78-7025	\$85.50

Tiger3D APEX 4K XHD Plus

Professional 3D Printers



HIGH-SPEED 4K DLP PRINTING MADE AFFORDABLE

Tiger3D APEX 4K XHD Plus is the latest Resin 3D Printer in the Tiger3D APEX family. **With double the resolution** of the APEX 4K XHD PRO combined with the **large build area** of the APEX 4K XXL PRO, the APEX 4K XHD Plus is the most versatile Resin 3D Printer on the market. Whether you require **extreme throughput** or **extreme quality**, the APEX 4K XHD Plus will meet and exceed your production needs.

Packed with features like a **Windows based interface**, **Automatic Cleaning System**, **built-in Wifi** and **protective layering system**.

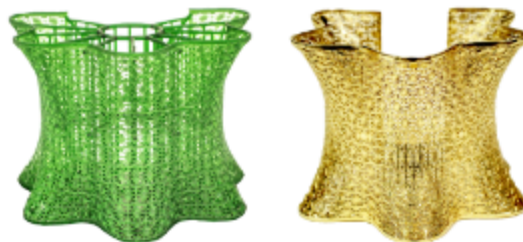
100% Open Source Resin System

Tiger3D APEX 3D Printers are **fully compatible with all 385µm & 405µm printer resins**, allowing you to continue to use your favorite resin of choice.

Tiger3D Starter Kit

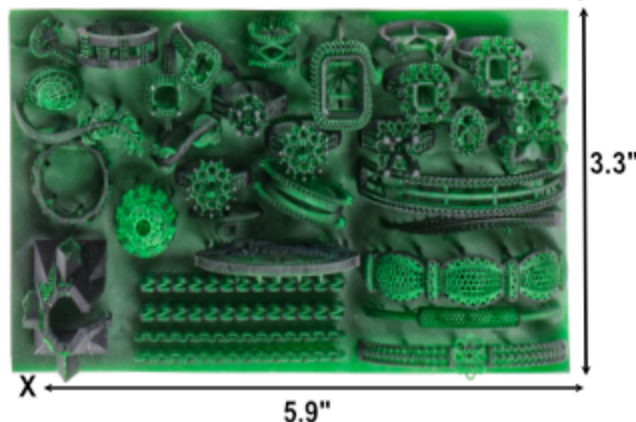


New Larger Build Plate
Even Finer XY Resolution
A Heated Resin Tank!



Fillagree bracelet with 0.3mm thin walls!

APEX XHD Plus Build Plate



ITEM	APEX XHD Plus
Item SKU	78-60200
Build Size L x W x H	150 x 84.4 x 120 mm (5.9 x 3.3 x 4.7 in)
Approx. Rings per Build	49
XY Resolution	39 µm
LED	ULTRA 4K (4.1 MP)
Z-Layer Resolution	5 µm to 200 µm
Wavelength (µm)	Standard: 405µm Optional: 385µm
Software	Operating System: Windows Supported File Type: STL Size Limit: 500mb (network) 1GB (USB)
UI and Connectivity	Touch Screen / Ethernet / Wifi, USB
Power Input	Printer: 19VDC / 4.73A With Adapter: 100 ~ 240V, 4.73A 50/60Hz
Dimensions/ Weight	Unpacked: 19.6" x 22.4" x 23.2" / 123.2 lbs Packed: 31.5" x 31.5" x 36.6" / 167.2 lbs



VCC Platinum Casting Machine & Fuji Platinum Investment



The Yasui VCC features an exclusive "double broken arm" Patented technology to ensure zero turbulence, complete filling, and dense castings every time!

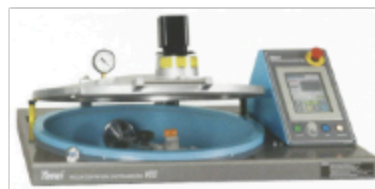
An accurate temperature for casting is achieved by the dual spectrum optical thermal control system guaranteeing consistent and accurate casting temperatures ± 2 Degrees Celsius. The unit features a completely vacuumed casting chamber that removes all unwanted gases and back-fills with inert argon gas.

The acceleration rate and the RPM speed of the casting arm can be programmed independently and can reach top RPM speed in less than 1/3rd of a second. Cooling System has a built-in water circulation system with temperature controller, to protect heating coil in case of power failure. Vacuum pump not included.

Specifications:

Item #	79-600
Oscillation Power	5kw
Oscillation Frequency	Approx. 100kHz
Temp. control range	900~2100°C
Temp. control method	PID Control
Melting capacity	Pt. 400g
Flask size	Dia. 76mm / 80mm Max. length 100mm
Max. acceleration	500 rpm - 0.1 sec.
Dimensions (L x W x H)	40.5" x 31.5" x 46.5"
Net weight	Approx. 350kg
Power supply	AC200V, 50/60Hz, 3 phase, 6.5kVA

Thermal Control with High Accuracy



Achieve highly accurate thermal control via the optical thermal controller.



Double Swing Arm

Yasui's innovative invention, the patented "Double Swing Arm" (Japan Patent No.

3178748), molten metal can now be poured directly into the mold without any loss, significantly enhancing both filling efficiency and metal density

Yasui Fuji Premium Platinum Investment with New Powder Binder



Yasui's improved Fuji investment now comes bundled with a powdered, non-hazmat binder. Yields approximately 55 standard size 3" x 3" steel flasks.

(702° - 980°C | 1300°-1800°F)

Description	Size	Item #	Price
Yasui Fuji Powder	25.5 kg	Z14-305-JPX	\$239.00

J-Break Platinum Investment Remover



Romanoff's J-Break will remove any phosphate bonded platinum investment in less than 30 minutes.

Description	Item #	Price
A. 1 Gallon	80-137-1CAR	\$100.95
B. 5 Gallon	80-137-5CAR	\$361.20

Rotating Burnout Furnaces



Clean Burnout, Precise Control, Reliable Results

With today's changing casting materials varying from injection wax to castable resins, precision heating is absolutely essential for a clean burnout or de-waxing process. The precision heating that Yasui RBF furnaces provide eliminates residual burnout ash content from resin that can contaminate your casted pieces and eat away at your investment of choice.

With several different resins in today's market each with their own specific burnout parameters, the Yasui RBF series of furnaces have all the features and functions to provide you with perfect casting results every time.

Uniform Heat Transfer

Created by the upward convection of precise temperature controlled air through the rotating shelves for which the flasks are positioned. Accurate temperatures ensure a safe and clean burn-out. The narrow door design allows for minimal heat loss.

Variable Power Heating System

Automatically and precisely maintains set temperatures throughout the cycles, endless Programs with multiple Ramps and Holds. Allows you to create the best burnout cycles for your particular application.

Internal De-Waxing System

Collects wax outside the flask chamber and the exclusive afterburner system.

Afterburner System

Neutralizes all fumes, smoke, odors and pollution produced during typical burn-out cycles.



Specifications:

	RBF #21	RBF #37+
Item #	77-021	77-014
Number of Flasks up to 9" in height (Without Flange)	21 (Dia. 3.9") 32 (Dia. 3.5") 41 (Dia. 2.9")	37 (Dia. 3.9") 45 (Dia. 3.5")
Power	220V, 50/60Hz, 3 Phase, 18K VA	380V, 50/60Hz, 3 Phase, 25.6K VA
Burnout Temp.	Max 950°C	Max. 850°C
Turntable Dia.	15.8" x 2 Tables	21.8" x 2 Tables
Dimensions (Including After Burner & Control Box)	32 1/2" L x 37 1/2" W x 78 1/2" H	42" L x 42 1/2" W x 85" H
Applications	Gold, Platinum & Stainless	Gold

Save Time and Gold

Engineered to provide a complete vacuum atmosphere, the K2 NEXT 8000, K2 NEXT 16000 and K3 UP vacuum pressure casting machines accommodate large gold flask capacities, have an after mode without oxidation and variable heat for gold loss.

Additional Features

- Extra mixing for perfect homogenous gold alloys.
- Exceptional melting speed
- De-gas with good filling pieces
- Precise double-needle gauge with improved pressure sensing
- Easy to maintain
- Accurate pressure timing
- Self-diagnosis – P.I.D auto-tuning
- Easy touch operation with useful parameter screen
- Memory of parameter for best casting



Metal De-gasing

Create compact, dense castings



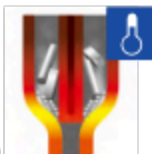
E-Touch Control Panel

Fullset parameters in memory with comments



OXY-Free Aftermode

For minimal metal oxidation



Variable Heat Control

Minimize alloy evaporation



Specifications:

	K3 UP	K2 NEXT 8K	K2 NEXT 16K
Part Number	79-300-K3UP	79-300-K2-5KW	79-300-K2-10
Casting System	Vacuum pressure casting system max. pressure - 0.3MPa	Vacuum pressure casting system max. pressure - 0.3MPa with internal gas tank	
Program Memory	100 memories		
Control	Specially designed microprocessor control. Temperature control by PID with accuracy of +/-2°C		
Heating	Induction heating (with specially designed metal stirring function)		
Oscillation Power	4kW	8kW	10kW
Max Flask Size	125mm dia. x 230mm (H)	Standard: 125mm dia. x 230mm (H); Optional: 125mm dia. x 300mm (H)	
Max. Casting Volume	90cc	150cc	
Max. Casting Weight	14K: 840g, 925 Ag: 600g, 18 K: 0.9 Kg, 24 K: 1.2 Kg,		
Max. Temp.	1200°C	1200°C (K-Type) 1450°C (R-Type)	
Power Source	AC380V +/-10%, 50/60Hz 3 phase, 5.5KVA	AC380V +/-10%, 50/60Hz 3 phase, 11.5 KVA	
Net Weight	Approx. 190Kg		Approx. 250Kg

Altima & Prime Vacuum Wax Injectors

Digital Vacuum Wax Injection Systems



Create Quality Wax Patterns

Yasui digital vacuum wax injector systems deliver a controlled and precise amount of wax into a vacuumed mold, eliminating air bubbles, finning, and shrinkage to create uniform wax patterns, significantly increasing productivity.

Z Control Height: Automatically adjusts mold clamp height for each specific mold.

Double Injection: After the initial injection of wax, a second injection occurs prior to solidification to eliminate model shrinkage.

Assist Mode: An operator assist feature that helps with complicated models exclusive to the Altima system. If a wax model had shrinkage, non-fill, finning, or air bubbles, the Altima will automatically adjust the settings to correct the wax model's error, resulting in a perfect wax every time.



From high-quality wax to clean metal cast!



Yasui Altima
74-265-SYS



Yasui Prime D
74-269A



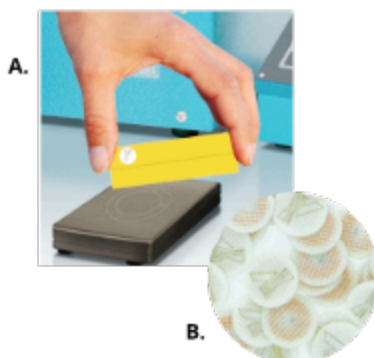
Yasui Prime X
74-269A

Features:	Altima	Prime D	Prime X
Z Height Control	✓	X	X
Control Interface	Touch Screen	Touch Screen	LCD Display
Mold Clamp		✓	✓
Double Injection	✓	✓	X
Assist Mode	✓	X	X

Yasui RFID Mold Reader

Enables quick and easy storage and retrieval of previously used wax mold settings using RFID (radio frequency identification) technology.

These heat-resistant chips can also be glued or vulcanized to each mold for easy setting retrieval.



Description	Item #
A. Yasui RFID Mold Reader for all models	74-266-ICR
B. Yasui RFID Memory Tags (Pack of 100)	74-266-ICIX



Thermocouples

Description	Dimensions	Machine	Item #	Each
A. K-Type up to 1200°C	140mm	K2A-D, K3A-E	79-302-K2	\$254.00
B. R-Type up to 1450°C	140mm	K2A-D, K3A-E	79-302-K2-R	\$1145.83

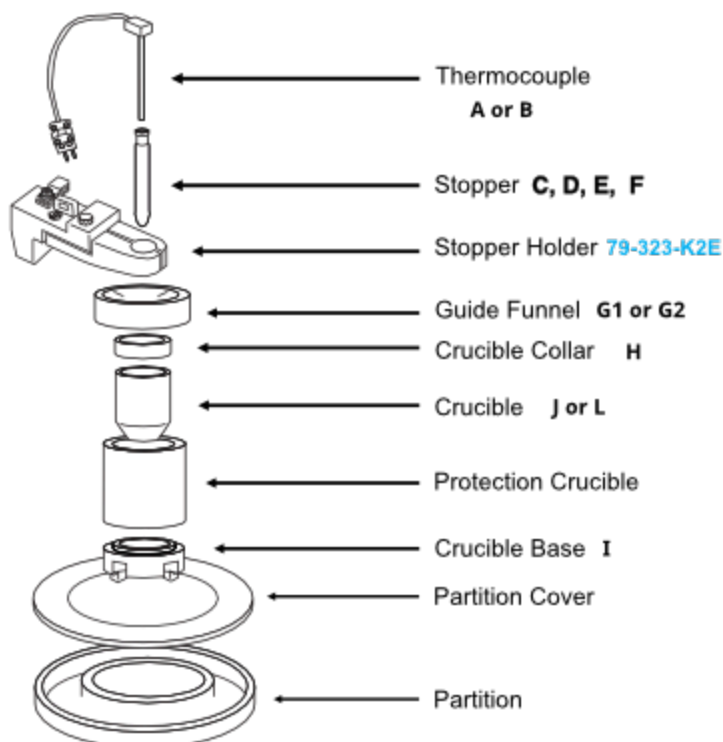
Graphite Stopper Rods

Casting Machine Stopper	Dimensions (W x H)	Item #	Each
C. K3 & K3S Flat Y	16mm x 128mm	79-304-K3S	\$49.95
D. K3 & K2 5KW (A-D) New Design Y	21mm x 132mm	79-304-K2-N	\$69.95
E. K3 & K2-5KW (A-D) Style A	21mm x 132mm	79-304-K2-R	\$49.95
F. K3 & K2-5KW (A-D) New Design Style I	21mm x 132mm	79-304-K2-NR	\$49.95

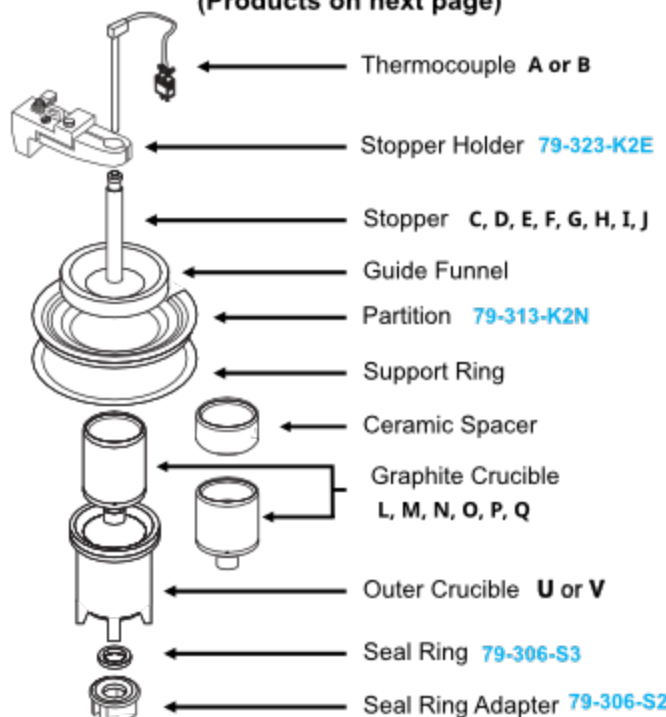
Crucibles & Ceramics

Description	Dimensions (ID x OD)	Machine	Item #	Each
G1. Ceramic Metal Guide Funnel Y	57mm x 118mm	K3E	79-3032-FUN	\$135.65
G2. Ceramic Metal Guide Funnel Y	57mm x 118mm	K3 (A-D)	79-313-K2MC	\$209.00
H. Outer Ceramic Crucible Collar Y	55mm x 65mm	K3	79-303-K3-C	\$128.95
I. Ceramic Crucible Base Y	---	K3	79-306-CBUP	\$169.95
J. K3E Graphite Crucible	65mm x 70mm	2.6kg 18ct Gold	79-303-K3	\$98.15
K. K3S Outer Ceramic Casting Crucible	75mm x 75mm	N/A	79-306-K3	\$79.95

K3S / K3UP Diagram



K2E/S / K2NEXT Diagram
(Products on next page)



K2E/S 8kW & K2-5KW, NEXT Supplies



Thermocouples

Description	Dimensions	Machine	Item #	Each
A. K-Type up to 1200°C	140mm	K2E/S 8kW & K2 NEXT	79-302-KT17	\$289.00
B. R-Type up to 1450°C	140mm	K2E/S 8kW & K2 NEXT	79-302-16R	\$1,385.00

Graphite Stopper Rods

Casting Machine Stopper	Dimensions (W x H)	Item #	Each
C. K2E/S 8kW & K2 NEXT, Flat Y	16mm x 145mm	79-304-KT18	\$59.95
D. K2E/S 8kW & K2 NEXT, Flat I	16mm x 145mm	79-304-KT18R	\$43.95
E. K2E/S 8kW & K2 NEXT Bulb Y	23mm x 145mm	79-304-KT17-N	\$79.00
F. K2E/S 8kW & K2 NEXT Bulb Style I	23mm x 145mm	79-304-KT17R	\$61.95
G. K2E/S 8kW & K2 NEXT Bulb Style A	23mm x 145mm	79-304-KT17NR	\$59.95
H. K3 & K2-5KW (A-D) Style A	21mm x 132mm	79-304-K2-R	\$49.95
I. K3 & K2 5KW (A-D) New Design Y	21mm x 132mm	79-304-K2-N	\$69.95
J. K3 & K2-5KW (A-D) New Design Style I	21mm x 132mm	79-304-K2-NR	\$49.95

Ceramic Funnel & Gaskets

Description	Dimensions	Machines	Item #	Each
K. Original Metal Guide Funnel Y		K2E/S 8kW, K2 NEXT	79-313-K2EMC	\$172.90
L. Silicone Gasket - No Flange Flasks	50 x 125 x 6mm	K2, K3UP Only	79-312-FL/SL	\$22.67
M. Suction Seal Graphoil Gasket	50 x 127x 3mm	K2, K3 (No Flange)	79-312	\$17.80

Graphite Casting Crucibles 8mm Nozzle / Shotting 2mm Nozzle

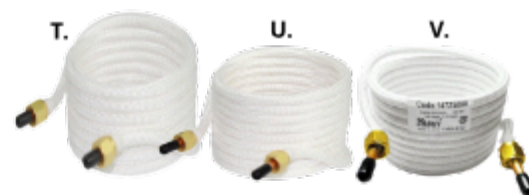
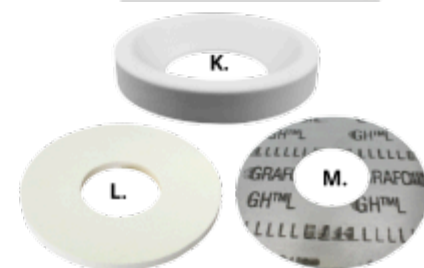
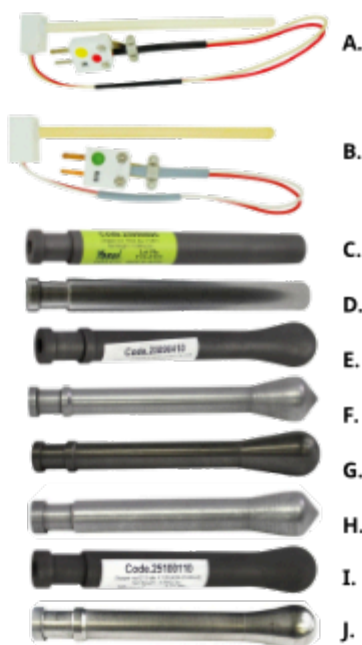
Casting Machine Crucible	Dimensions (OD x L)	Capacity	Item #	Each
N. K2E/S 8kW & K2 NEXT Y	70mm x 125mm	2kg 18kt	79-303-K2-8KW	\$139.95
O. K2E/S 8kW & K2 NEXT Style I	70mm x 125mm	2kg 18kt	79-303-K2-8KWR	\$124.20
P. K2E/S 8kW & K2 NEXT Style I	70mm x 125mm	2kg 18kt	79-303-KT18AR	\$119.95
★ Q. K2E/S 8kW & K2 NEXT Style I Shotting Crucible 2mm Nozzle	70mm x 125mm	2kg 18kt	79-303-K2SMR	\$139.00
R. K3 & K2-5KW (A-D) Y	70mm x 85mm	1kg 18kt	79-303-K2	\$112.95
S. K3 & K2-5KW (A-D) Style I	70mm x 85mm	1kg 18kt	79-303-K2R	\$98.95

Induction Coils

Description	Dimensions (OD)	Item #	Each
T. K2 A-D, K3 A-D (Not E)	113mm	79-326-K2	\$819.00
U. K2 E 8KW, K2 Next	65mm	79-326-K2-8KW	\$829.00
V. K3E, K3S, K3UP	65mm	79-326-K3	\$816.95

Outside Ceramic Crucible

Description	Height	Item #	Each
W. K2E/S 8kW & K2 NEXT Y	135mm	79-306-KT18	\$219.00
X. K3 & K2-5KW (A-D) Y	95mm	79-306-K2	\$181.95



Centrifugal + Melt & Pour Crucibles



Platinum Casting Crucibles

	Machine	Diameter	Capacity	Item #	Each
A1.	RCS	38mm	150g Platinum	79-701	\$134.50
A2.	RCS	38mm	150g Platinum	79-701-R	\$98.90
B.	Yasui VCC	51mm	400g Platinum	79-452	\$91.75
C.	RCS	44mm	200g Platinum	79-701-LG	\$125.35
D.	RCS	44mm	350g Platinum	78-501-T	\$89.95
E.	RCS	44mm	350g Platinum	78-501	\$79.95
F.	Yoshida Gapman	45mm	350g Platinum	79-453-T	\$69.00
G.	Yasui VCC & CCM	51mm	400g Platinum	79-4550	\$94.79
H.	RCS	44mm	80g Stainless Steel	79-701-SS	\$94.37
	Description		Size	Item #	Each
I.	Boron Nitride Crucible Coating Spray	12 oz		80-130	\$77.00

Gold Casting Crucibles

	Description	Machine	Dimensions	Capacity	Item #	Each
J.	Gold & Silver Crucible	RCS	44mm	100g	79-702	\$65.00
K.	Centrifugal Graphite & Ceramic Gold CG40	CCM	51mm	500g	78-0060	64.95

Ceia Graphite/Ceramic Combo Crucibles

	Description	Machine	Dimensions (ID x OD x H)	Capacity	Item #	Each
L.	Graphite/Ceramic	F4	59 x 90 x 47mm	4 kg	79-220-CCO	\$92.00
M.	Graphite/Ceramic	F5	70 x 115 x 165mm	6kg	79-210-CC	\$98.80
N.	Graphite/Ceramic	F9/F10	80 x 120 x 160mm	10kg	79-215-CC	\$172.95

Electric Melter Graphite Crucibles

	Machine Type	Dimensions (ID x OD x H)	Capacity	Item #	Each
O1.	1 Kilo Italian Melters	38x 50 x 125 mm	1Kg	77-042-M1C	\$50.50
O2.	2 Kilo Italian Melters	44 x 55 x 115mm	2kg	77-042-M2-C	\$54.65
O3.	3 Kilo Italian Melters	55 x 68 x 140mm	3kg	77-042-M3-C	\$59.65
P.	Kerr 3 Kilo Maxi-Melt	63 x 85 x 112mm	100oz	78-0381	\$71.80
Q.	Romanoff 1kg Digi-Melt	35 x 40 125mm	1kg	78-0380	\$33.50

Tabletop Melters

Romanoff Induction Mini Melt

An excellent choice for all precious metal buyers who need an induction melting furnace for rapid melts. All models are also available for stainless steel and platinum. Reliable, easy to maintain and service and easy to install and simple to operate. Induction generator cooled by external water. 1-30 minute timer with power regulation 10-100%. Convenient L.E.D. screen displays power level, time and temperature.

Description	Item #	Cooling	Max Temp	Crucible Capacity	Power (Absorbed) 230 +/- 10% (2.8 kW)	Dimensions	Price
A1. For Gold	79-1300	Water	1300°C	2kg Gold		14 x 18 x 7 1/2"	\$4,925.00
Gold Crucible	77-042-M2-C			2 kg			\$54.65
A2. For Platinum	79-1400	Water	2000°C	50 - 250g Platinum	230 +/- 10% (2.8 kW)	14 x 18 x 7 1/2"	\$5,270.00
Platinum Crucible	79-1402			750 g		42 x 51 x 106(H)	\$154.50



Romanoff Digimelt Melter- 1kg 18 Gold (Max. Temp. 1120°C / 2050°F)

Hand-held compact electric furnace for melting metals. Digital controller regulates the temperature by providing full power input until a pre-selected temperature is attained. The approximate melting time from room temperature, is 25-40 minutes thereafter every 15 minutes for successive reheats.

Description	Item #	Dimensions	Voltage	Each
B. Romanoff Digital Melter 1kg	8100	5" x 8 1/2" x 11"	110V	\$655.00
C. Digimelt Removable White Lid	714A	---	---	\$42.50
D. Digimelt 1Kg Graphite Crucible	78-0380	(ID) 35mm x 115mm (OD) 40 x 125 mm	---	\$33.50
E. Pliers-Style Handle Tongs	77-042-TONG	32" (L)		\$34.50



Electric Digimelt Melter- 3kg 18K Gold (Max. Temp. 1100°C / 2012°F)

Great for gold and silver! Features a high quality fiber alumina chamber for better insulating of the heat, temperature control by built-in thermocouple, easy to read digital display and an LED on/off indicator light. Made in Italy.

Description	Item #	Voltage	Capacity	Chamber Size	Wattage	Each
F. Electric Digital Melter	77-042-M3D	110V	3Kg	60mm x 150mm	1400W	\$938.30
G. 3 Kg Italian Graphite Crucible	77-042-M3-C			55(ID) x 120(IH) x 68(OD) x 140 (OH) mm		\$59.65

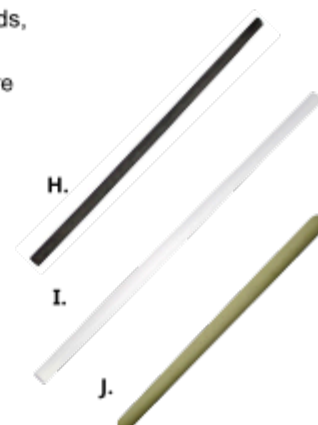


G.

Romanoff Stirring Rods

Stirring rods are popular for mixing metal in its molten state to ensure a homogeneous mix. **Carbon** rods, are used to stir gold and remove impurities with Boric Acid Granular. **Quartz** rods can last longer than graphite, are non-conductive to electricity and are popular for high-frequency melters. **Ceramic** rods are popular for working melting platinum in induction melters.

Description	Diameter	Item #	Each
H1. Carbon	12" L x 1/4" dia	78-089	\$6.40
H2. Carbon	12" L x 3/8" dia	78-084	\$8.10
H3. Carbon	12" L x 1/2" dia	78-085	\$12.55
H4. Carbon	12" L x 3/4" dia	78-086	\$15.40
H5. Carbon	24" L x 1/2" dia	78-0880	\$37.50
I. Quartz	12" L x 3/8" dia	78-028	\$9.15
J. Ceramic	9" L x 1/2" dia	215-719	\$8.70

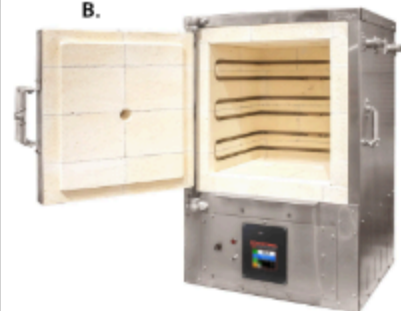


Tabletop Burn-Out Furnaces

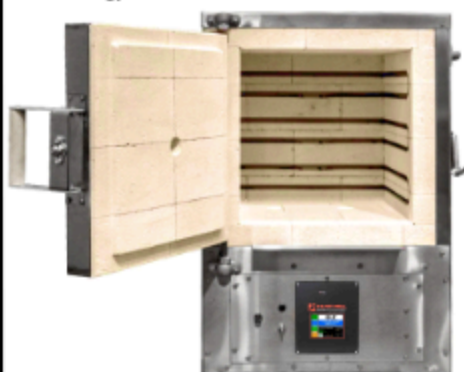
A.



B.



C.



Romanoff Stainless Steel Programmable Burn-Out Furnaces

The Romanoff heavy-duty programmable furnaces come in three sizes to fit any application. All sizes feature a built-in computerized furnace temperature controller. The programmable controller allows up to six segments or "ramps" to be pre-set. Each ramp consists of heating or cooling, temperature settings in F or C, and hold time for each "ramp". Also, a delayed start can be entered. Stainless Steel Cabinet. Made in the USA.

Description	Item #	Each
A. Medium Programmable Burn-Out Furnace	77-0913	\$3,156.00
B. Large Programmable Burn-Out Furnace	77-0914	\$3,499.00
C. Extra Large Programmable Burn-Out Furnace	77-0918	\$4,295.00

Furnace Specifications

SKU	A. 77-0913	B. 77-0914	C. 77-0918
Voltage	240	240	240
Amps	13	16	22
Max Temp	1700°F	2000°F	1700°F
Flask Capacity	4 ea. 4" x 6"	8 ea. 4 x 6"	15 ea. 4 x 6"
Inside Chamber: (L x D x H)	13" L x 13" W x 9" H	14" x 14" x 14"	18" x 18" x 18"
Approx. Ship Weight:	165lbs	265lbs	315 lbs
Outer Dimensions:	18" L x 21 1/2" W x 21 1/2" H	19" L x 22" W x 27" H	24" L x 27" W x 31" H
Watts:	3000	3430	4840

Romanoff Super Blue Automatic Furnaces

Ideal for enameling silver, clay, glass jewelry, ceramics, porcelain, and lost wax casting processes.

The Sentry Xpress digital controller allows for up to 4 saved programs with 8 steps. The furnaces will automatically shut off heat when the door is opened and resume when closed. Comes with an alarm when set temp is reached. Made in USA. *Also available in 220V.

D.



E.



Description	Item #	Each
D1. Small Super Blue Automatic Furnace	77-0924-A	\$1,373.90
D2. Medium Super Blue Automatic Furnace	77-0911-A	\$1,606.00
E. Large Super Blue Automatic Furnace	77-0907	\$1,815.00

Furnace Specifications

SKU	D1. 77-0924-A	D2. 77-0911-A	E. 77-0907
Voltage	110V	110V	110V
Amps	12	14	19
Max Temp	2300°F	2250°F	2000°F
Flask Capacity	2 ea. 3 x 4"	2 ea. 4 x 8 1/2"	3 ea. 4 x 8 1/2"
Inside Chamber: (L x D x H)	5 3/4" x 6 1/4" x 6"	8 1/2" x 8 3/4" x 9"	9" x 8 1/2" x 12"
Approx. Ship Weight:	37 lbs	80 lbs	81 lbs
Outer Dimensions:	11" x 14 1/4" x 16 3/4"	14" x 17 1/2" x 19 3/4"	14" x 22 1/2" x 20"
Watts:	1440	1680	2280

Casting Supplies

Investment Scale

Description	Capacity	Item #	Each
A. Cradle Style	10 lbs	76-110	\$89.00



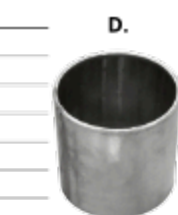
Instant Shrink Flask Sleeve (100 pack)

Length	Item #	Each
B1. 4 x 8"	79-0560	\$9.50
B2. 4 x 11"	79-0561	\$18.19



Solid Stainless Steel Flasks (2.75mm Wall)

Description	Item #	Each
D1. 2 1/2" x 2 1/2"	76-038	\$20.31
D2. 2 1/2" x 3"	76-039	\$23.15
D3. 3 x 3"	76-047	\$21.80
D4. 3 x 3 1/2"	76-048	\$27.26
D5. 3 x 4"	76-049	\$29.30
D6. 3 1/2" x 3 1/2"	76-056	\$34.50
D7. 3 1/2" x 3" (Hi-Temp)	76-055-HT	\$35.86
D8. 4 x 4"	76-065	\$28.52



Perforated Flask Tape (60 Yards)

Length	Item #	Each
G1. 2"	79-055-T2	\$9.35
G2. 4"	79-0535-F	\$15.15
G3. 5"	79-054-F	\$16.95
G4. 6"	79-055-T6	\$18.20
G5. 7"	79-055	\$20.40
G6. 8"	79-055-T8	\$24.25



Flask Gaskets

Silicone Gaskets: Pliable, heat resistant, and conforms to irregular surfaces to make a tight vacuum seal. **TIP:** Add oil to silicone gaskets to improve seal

Graphfoil Gaskets: These hard, graphite-impregnated gaskets will resist high heat and are placed between the silicone gasket and the hot perforated outer flask ring.

Description	Material	Item #	Each
J1. 3 1/2" x 4 1/2" x 1/4"	Silicone	79-043-S1/8	\$11.75
J2. 3 1/2" x 4 1/2" x 1/4"	Silicone	79-043-S3	\$14.35
J3. 4 1/2" x 5 1/2" x 1/4"	Silicone	79-043-S1/16	\$13.99
J4. 3 1/2" x 4 1/2" x 1/4"	Silicone	79-043-1/8	\$19.35
J5. 4 1/2" x 5 1/2" x 1/4"	Silicone	79-043-S4	\$22.27
J6. 4 1/2" x 5 1/2" x 3/8"	Silicone	79-043-S43/8	\$29.85
K1. 3 1/2" x 4 1/2" x 1/8"	Graphfoil	79-043-GHL3	\$13.50
K2. 4 1/2" x 5 1/2" x 1/8" (Set of 5)	Graphfoil	79-043-SET	\$60.76
K3. 4 1/2" x 5 1/2" x 1/8"	Graphfoil	79-043-GHL4	\$13.30

Steel Flask Tongs

Description	Length	Item #	Each
L. Economical 3 1/2" Diameter Flask Tongs	15"	78-056	\$12.40
M. Lightweight Adjustable Tongs, 3" to 6" Diameter	32"	78-048	\$189.95
N. 4" Dia Flask Tongs, 3/4" Steel Bar Stock Frame	22"	78-055C	\$200.00

Non-Asbestos Gloves

These heat resistant gloves protect your hands and forearms from high temperatures operations. Yellow gloves are slightly more heat resistant than white gloves. Sold per pair.

Description	Item #	Each
C1. 14" Yellow Non-Asbestos Gloves	78-090-YL	\$50.10
C2. 18" Yellow Wool-Lined Non-Asbestos Glove	78-091A	\$73.40



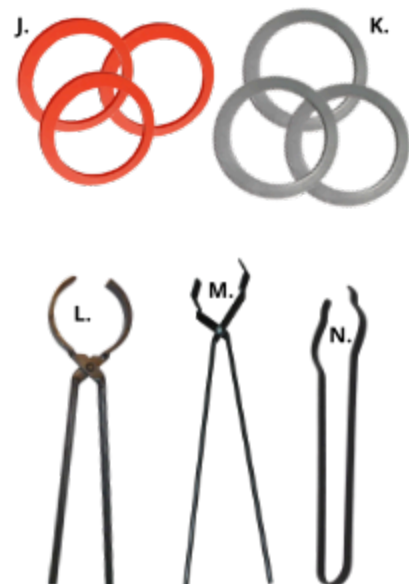
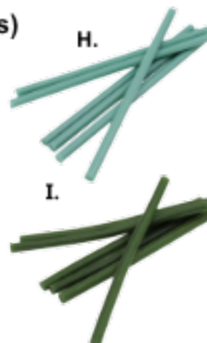
Perforated Stainless Steel Flasks (3.5mm Wall)

Description	Flange	Item #	Each
E1. 4 x 4"	Yes	79-045	\$90.25
E2. 4 x 6"	Yes	79-046	\$98.50
E3. 4 x 7"	Yes	79-047	\$102.75
E4. 4 x 8 1/2"	Yes	79-048	\$109.00
F1. 4 x 6"	No	79-046-WF	\$71.35
F2. 4 x 8 1/2"	No	79-048-WF	\$106.00



Wax Sprue Rods (Sold per Box of 60 Rods)

Length	Item #	Type	Each
H1. 6 1/4"	74-046-S	Stiff	\$16.05
H3. 6 3/8"	74-047-S	Stiff	\$16.05
H5. 6 3/4"	74-048-S	Stiff	\$16.05
I2. 6 1/4"	74-046-F	Flexible	\$17.35
I4. 6 3/8"	74-047-F	Flexible	\$17.35
I6. 7 3/8"	74-048-F	Flexible	\$17.35



Liquid Mold Rubber & RTV

Romanoff CAD/CAM LMR Clear Mold Rubber Kit

The #1 liquid rubber specifically developed for reproducing CAD-CAM resin models. Features 0.0% shrinkage with no heat or pressure, excellent tear resistance, is easy to de-bubble and vacuum, and will not deteriorate over time. Its clear color makes for easy mold cutting visibility. Can pour up to 600°F metal in CAD-CAM clear molds. No release sprays required.

Description	Size	Item #	Each
A1. CAD-CAM LMR Clear Mold Rubber Kit	10lb	73-050-10	\$354.00
A2. CAD-CAM LMR Clear Mold Rubber Kit	50lb	73-050-50	\$816.83

Romanoff Original White and Rosé Liquid Mold Rubber

Romanoff's LMR: The best and most popular liquid mold rubber used by professional mold makers. Requires no heat, cures at room temperature overnight and has 0.0% shrinkage every time. It's firm, durable, tear resistant, and has excellent memory. Mixing ratio is 10:1. Curing time can be reduced when mold is heated to 125°F.

Romanoff Rosé LMR: Has a slightly higher durometer than traditional White LMR.

Description	Size	Item #	Each
B1. White LMR Compound Kit	10 lb	73-052	\$115.85
B2. White LMR Compound Kit	50 lb	73-052-5	\$496.62
B3. Rosé LMR Compound Kit	50 lb	73-052-5R	\$422.50

Castaldo LiquiFast™ Ice

A transparent two-part 0% shrinkage RTV silicone molding rubber that cures very rapidly at normal room temperatures and cures even faster at slightly warmer temperatures.

Color:	Clear Blue	Rubber Shrinkage:	0.0%
Shore A Hardness:	40	Mix Ratio by Weight:	1:1
Cure Time:	60-90 Minutes	Specific Gravity:	1.12
Pre-Break Tensile Strength:	3.5 n/mm2	Rapid Cure Time at 65°C (150°F):	30mins
Viscosity:	Low 8,500 cps	Vulcanizes At:	21°C (70°F)
Elongation Before Break:	370%	Tear Strength Die C Before Break:	18.9 n/mm2

Description	Size	Item #	Each
C1. Castaldo LiquiFast	1kg Kit	73-0525	\$106.75
C2. Castaldo LiquiFast	4kg Kit	73-0526	\$349.00

Castaldo LiquaCast® Long Life

A 0% shrinkage RTV rubber formulated to last for decades without softening, distorting or degrading. Ideal for complex molds with difficult undercuts, spirals and cores. Compatible with most computer-generated CAD-CAM resin or wax patterns.

Color:	Yellow	Rubber Shrinkage:	0.0%
Shore A Hardness:	45	Mix Ratio by Weight:	1:1
Cure Time:	12 Hours	Specific Gravity:	1.39
Pre-Break Tensile Strength:	4.3N/mm2	Rapid Cure Time at 65°C (150°F):	90mins
Viscosity:	Very low 4,000 cps	Tear Strength Die C Before Break:	16.54 N/mm2
Elongation Before Break:	1100%		

Description	Size	Item #	Each
D1. LiquiCast Long-Life	8kg Kit	73-0522	\$262.50
D2. LiquiCast Long-Life	20kg Kit	73-0523	\$619.00

Castaldo LiquaCast®

A two-part 0% shrinkage, room temperature RTV. It's safe, easy to use, and reproduces the finest details. Easy to vacuum, de-bubble and pour. Cures at room temperature overnight.

Color:	Pink	Rubber Shrinkage:	0.0%
Shore A Hardness:	40	Mix Ratio by Weight:	1:1
Cure Time:	12 Hours	Specific Gravity:	1.39
Pre-Break Tensile Strength:	4.3N/mm2	Rapid Cure Time at 65°C (150°F):	90mins
Viscosity:	Very low 4,000 cps	Tear Strength Die C Before Break:	16.54 N/mm2
Elongation Before Break:	1100%		

Description	Size	Item #	Each
E1. LiquiCast	8.8 lb Kit	73-052-LC	\$165.15
E2. LiquiCast	44 lb Kit	73-052-LC44	\$648.80



Mold Frames, Blades, & Release Sprays

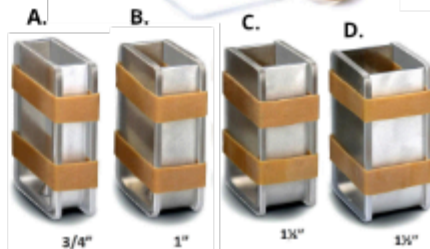


Liquid Mold Frames

Designed for use with liquid mold material. Made with plexiglass and includes a built-in sprue former. Frames are held together with large rubber bands. Cold mold only, no vulcanization.

- Industrial rubber bands fit all frame sizes. Additional bands are provided with each frame.
- New taller size makes vacuuming easier. No need for paper collars. No more spills!
- Clear plastic plates release easily from rubber. Won't shatter or cut hands.

	Description	Item #	Each
A.	Castaldo Liquid Mold Frames - ¾" (19mm)	73-022-C	\$22.00
B.	Castaldo Liquid Mold Frames - 1" (25mm)	73-023-C	\$22.50
C.	Castaldo Liquid Mold Frames - 1¼" (32mm)	73-024-C	\$23.45
D.	Castaldo Liquid Mold Frames - 1½" (38mm)	73-0242-C	\$24.00



Swann-Morton Surgical Blades

A world leader in surgical blades, scalpel, and handle manufacturing founded in Sheffield in 1932.

Sold per box of 100 blades.

	Type	Item#	Each
E.	10	73-025-10	\$21.45
F.	10A	73-025-10A	\$23.75
G.	11	73-025	\$23.75
H.	12	73-026	\$23.50
I.	14	73-025-14	\$26.75



Bard Parker Blades

Reinforced along the edge with ribs to make them last longer and minimize breakage

Sold per box of 150 blades.

	Type	Item#	Each
J.	Bard Parker #25 Blades	98-161	\$21.45



Surgical Blade Handles

The perfect companion to our selection of surgical blades. All of these handles are light-weight and designed with the user's comfort in mind. Available in both ergonomic plastic or durable stainless steel and designed to fit a variety of blades.

	Description	Item#	Type	Each
K.	Bard-Parker Handle	98-160	#6	\$28.25
L.	Plastic Grip Handle	73-032	#5 USA	\$37.30
M.	Stainless Steel Handle	73-033	#3	\$4.75
N.	Swann Morton Stainless Steel Handle	73-033-SM	#5	\$38.95



Mold Release Sprays

O. Castaldo Resin Release: Soy based spray for easier removal of resin models.

P. MS: For resin models & all alloys. Silicone free.

Q. CAD CAM: Specifically designed to protect all CAD resin model surfaces from phosphate bonded platinum investment.

	Description	Item #	Size	Each
O.	Castaldo Mold Release	75-003-C	12 oz	\$16.95
P.	Romanoff Crystal Clear Cad-Cam Protective Coating	78-049	14 oz	\$31.70
Q.	Silicone-Free Resin Release Spray	75-003-MS	14 oz	\$38.10
R.	New Spirits Mold Release Spray	75-010	12 oz	\$17.35

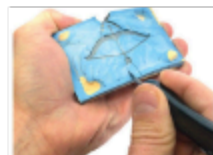


Mold Making Rubber



Romanoff's Original Blue Lo-Shrink 1% Rubber

Preferred by many craftsmen all over the world for its low shrinkage properties. Blue Lo-Shrink has similar qualities to the Original Formula, except it is slightly firmer. Vulcanizes at 290°F - 310°F. Sold per 5lb box.



Notice: Hot quenching Romanoff Blue Lo-Shrink rubber molds in cold water will produce shrinkage. Always allow your Romanoff Blue Lo-Shrink molds to cool off at room temperature.



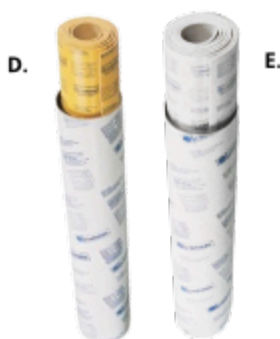
	Description	Item #	Each
A.	Blue Lo-Shrink Redi-Cuts: 1 3/8" X 2 3/4" long	73-079B-C	\$89.95
B.	Blue Lo-Shrink Rubber Strips: 2 3/8" X 18" long	73-079B	\$81.95



Castaldo Super High Strength Silicone Molding Rubber

All Castaldo silicone jewelry molding rubbers make superior quality molds that are tough, strong, easy to pack, easy to cut and easy to use. Vulcanizes at 330°F - 350°F. Priced per 5lb box.

	Description	Item #	Each
C.	Super High Strength Silicone Molding Rubber	73-073B-SH	\$75.95



Castaldo Gold & White Label Jewelry Molding Rubber Rolls

Castaldo jewelry molding rubber is a natural product that has been used in the molding industry for over 50 years. The natural rubber material will outlast other synthetic molding products. Vulcanizes at 307°F. Priced per 5lb box.

	Description	Size (L x W x D)	Firmness	Item #	Each
D.	Gold Label Rubber 5lb Roll	45 x 18 x 1/8"	Soft and pliable	73-072-5	\$64.85
E.	White Label Rubber 5lb Roll	45 x 18 x 1/8"	Firm yet flexible	73-071-5	\$61.20



Castaldo Econosil Silicone Jewelry Molding Rubber

Castaldo Econosil Silicone has the consistency of putty allowing the mold maker to push the material into the mold frame and around the model easily. Built in release agents and a smooth surface make this product an old time favorite. Vulcanizes at 330°F. Priced per 5lb box.

	Description	Firmness	Item #	Each
F.	Gold Label Jewelry Molding Rubber 5lb Roll	Soft and pliable	73-085B	\$71.00



Castaldo VLT® Jewelry Molding Low Shrink 1% Silicone

Its low vulcanization temperature makes it ideal for creating tough, strong, and long-lasting production rubber molds that can be taken directly from various plastic resin models. Vulcanizes at 160 -190°F. Priced per 5lb box.

	Description	Firmness	Item #	Each
G.	VLT® Jewelry Molding Low Shrink Silicone 5lb Roll	Soft and pliable	73-069	\$105.70

Freeman Flake Injection Wax

The industry standard for quality and consistency for nearly 40 years. The formulations are known for their high pattern detail, rapid wax solidification, minimal shrinkage, excellent flow and low ash content of .003%, enabling the cleanest burnouts and most accurate reproductions possible.

Sold per 5 lb package.

Description	Temp	Item #	Each
A. Flexible Blue Flake	68°C / 155°F	74-045-K	\$38.75
B. Turquoise Flake	65°C / 150°F	74-0601	\$42.50
C. Aqua Flake	65°C / 150°F	74-060	\$42.50
D. Tuf Guy Green Flake	73°C / 165°F	74-073	\$34.25
E. Filigree Pink Flake	68°C / 155°F	74-0606	\$42.50
F. Super Pink Flake	65°C / 150°F	74-0609P	\$36.25
G. Ruby Red Flake	65°C / 150°F	74-0602	\$42.50
H. Carvable Purple Flake	77°C / 170°F	74-0265	\$38.75

Ferris® Beads Injection Wax

Ensures consistent and exceptional results. Available in a wide variety that will surely meet your specific needs. Economically priced. Sold per 5lb package.

Color/ Shape	Temp	Item #	Each
I. Blue Hi-Flow Plastic-Ject Pellet	68°C / 55°F	74-045-P	\$28.75
J. Turquoise Pellet	68°C / 55°F	74-0611	\$30.75
K. New Jersey Blue Pellet	68°C / 55°F	74-0611-B	\$30.75
L. New Aqua Pellet	68°C / 55°F	74-0611-A	\$28.50
M. Magna-Ject Pink Pellet	70°C / 58°F	74-0600-JECT	\$36.25
N. Tuff Green Pellet	73°C / 65°F	74-062-TG	\$30.75

Yellow Sticky Wax

A quick setting adhesive which creates a rigid bond between two wax surfaces. Great for creating complex assemblies or attaching patterns to the sprue rod. Commonly used to seal the base of solid flasks to non-asbestos bases for platinum investing

Description	Item #	Each
O. Yellow Sticky Wax Beads 1lb	74-0603-KB	\$7.35

Castaldo® Plast-O-Wax

Produces patterns that are very flexible, resilient, and durable with great memory. Patterns will not break despite rough handling. Sold in 4.41 lb bags.

Description	Item #	Each
P. Castaldo Dark Blue	74-045	\$36.65

Romanoff Blue Inlay/Repair Wax

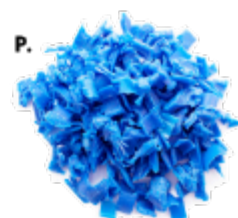
Perfect for sizing or building up and repairing wax patterns. Can be carved with out chipping or flaking and has a low melting point of 135°F. Sold in chunk form in 1 lb boxes.

Description	Item #	Each
Q. Blue Inlay/Repair Wax	74-041	\$36.95

Ferris Blue Wax Wire ½ lb Spools

High-quality, pliable wax used whenever a wire shape is required. Perfect for reproducing clasps, prongs, sprues, bezels, braids, and macrame. Strong enough to be twisted or bent to conform to any shape without cracking or breaking while being extremely flexible.

Diameter	Gauge	Item #	Each
R1. 4.10mm	6	74-027-6	\$36.95
R2. 3.28mm	8	74-027-8	\$36.95
R3. 2.59mm	10	74-027-10	\$36.95
R4. 2.06mm	12	74-027-12	\$36.95
R5. 1.63mm	14	74-027-14	\$36.95
R6. 1.30mm	16	74-027-16	\$36.95
R7. 1.02mm	18	74-027-18	\$36.95
R8. 0.81mm	20	74-027-20	\$35.90





KWS Investment Mixing Machines

Effortless Investment Preparation



Quality Investment Mixing Machines

KWS Investment Mixing Machines are second to none and are known for their superior quality. With features like heavy duty stainless steel and aluminum construction, quality drive motors and variable speed dials, KWS Investment Mixing Machines are built to last, providing consistent results while being virtually maintenance free.

Hassle-Free Operation

Simple to operate, KWS Investment Mixing Machines ensure a clean and pleasant working environment. The variable speed mixer guarantees that the correct rotational speed for the specific investment process can be selected at all times. The machine's drive motor and mixing chamber are fixed to each other, allowing for more thorough investment mixing while avoiding potential machine malfunction.

Simple Investment Mixing



KWS investment mixing machines mix and pour gypsum investment powder under vacuum for consistent results from every batch.

Key Benefit: Vibration feature insures all gas bubbles are removed during vacuum.

Specifications:	EB 5	EB 8	EB 10/16 S	EB 10/16	EB 20/30
Part Number	73001	76-3002	76-3005	76-3003	76-3006
Each	Call for Pricing				
Max. Flasks Diameter	4.7" - 5.5"	5.5"			5.9" - 8"
Max. Height of Flasks	7"	9"	11"	5.5"	6"- 8"
Max. Number of Flasks	3 Perforated Flasks	5 Perforated Flasks	6 Perforated Flasks		6-8 Perforated Flasks
Flask Chamber Dia.	11" Dia.	14.9" Dia.	16.9" Dia.		24"
Max. Powder Capacity	13lbs	22lbs	35lbs		66lbs
Mixing Chamber Dia.	7.87" Dia.	11" Dia.	12.9" Dia.	24" Dia.	18" Dia.
Mixing Chamber Height	12.5" Inside Height	12.5" Inside Height	22" Inside Height	13" Inside Height	23" Inside Height
Investment Sieve	N/A			Included	
Machine Dimensions	28" L x 19" W x 38" H	40" L x 21" W x 55" H	44" L x 25" W x 62" H	44" L x 25" W x 67" H	52" L x 33" W x 67" H
Weight with Pump	158 lbs	300 lbs / 0025 Pump 474 lbs / 0040 Pump	417 lbs	465 lbs	644 lbs
Shipping Weight	265 lbs	474 lbs / 0025 Pump 492 lbs / 0040 Pump	624 lbs	717 lbs	644 lbs

Casting Investments

ROMANOFF
SINCE 1949
INTERNATIONAL SUPPLY CORPORATION



Description	Item #	Size	Max Temp.	Application
A1. Ransom & Randolph Ultra-Vest: Box	Z14-301-40	40 lbs	1400°F (760°C)	Gold, silver, brass, bronze
A2. Ransom & Randolph Ultra-Vest: Drum	Z14-301	100 lbs		
B1. Ransom & Randolph Ultra-Vest Maxx: Box	Z14-307-40	40 lbs	1450°F (788°C)	18kt White Gold
B2. Ransom & Randolph Ultra-Vest Maxx: Drum	Z14-307	100 lbs		
C. Ransom & Randolph Plasticast PT with ½ Gallon Binder (Non-Hazmat)	Z14-304-PT44	44 lbs	1600°F (871°C)	Platinum and other high temp alloys
D. Yasui Fuji Powder	Z14-305-JPX	55 lbs	1650°F (898°C)	Platinum and other high temp alloys
E. Ransom & Randolph Plasticast: Box	Z14-304-40	40 lbs	1400°F (760°C)	CAD/CAM resins, or wax/plastic pattern materials
F. Ransom & Randolph Plasticast Bandust: Box	Z14-304-BD	44 lbs	1166°F (630°C)	Cast gemstones in place
G. Ransom & Randolph Solitaire: Box	Z14-303-44		1600°F (871°C)	Platinum and other high temp alloys
H. Ransom & Randolph Astro-Vest: Box	Z14-306-44		1350°F (730°C)	Wax & Resin Casting
I. Ransom & Randolph Liberty-Vest: Box	Z14-302-44		1450°F (788°C)	Gold, silver, and all other non-ferrous metals
J. Satin Cast 20: Drum	76-106-NY	100 lbs	1450°F (788°C)	18kt White Metals
K. Satin Cast Xtreme: Drum	76-106-X			
L. J-Formula Platinum Investment with White Binder	Z14-305-50J	45 lbs	1600°F (871°C)	Platinum and other high-temp alloys
M1. J-Formula "606" Platinum Investment with Orange Binder	Z14-305-606A			
M2. J-Formula "606" Platinum Investment with Blue Binder	Z14-305-606C			
N. Original White Label J-Formula Binder Only	Z14-305-16J	16 oz bottle	---	---
O. Orange Label J-Formula Binder Only	Z14-305-16J1			
P. Blue Label J-Formula Binder Only	Z14-305-16J2			



St. Louis Investment Mixers

Heavy Duty Stand Alone Mixers



With **St. Louis Mixers**, operators can automatically mix and pour investment in an enclosed, see through mixing chamber. A key feature of these units, mixing and pouring of investment is done under a controlled vacuum environment with vibration.

This process not only produces a better result but also saves time as the user will not need to separate mixing, pouring and vacuuming operations.

Their simple, user-friendly interface makes operation very simple for users of all skill levels.

St. Louis Mini Mixer (76-113-MINI)

The Mini Mix tabletop unit was specifically designed for platinum and gold investment mixing. The Mini Mix has a 1-liter capacity as well as adjustable vibration & speed control. Great for producing one 100 mm x 120 mm flask per cycle. 2 lbs powder capacity.

St. Louis #92 (76-113-4KG-P)

The #92 model has a heavy-duty motor designed for mixing gold and two part platinum investment powders. Investment will be mixed and poured under a controlled vacuum environment. 8lbs powder capacity.

St. Louis #82 (76-115)

The #82 unit was specially designed for gold investment mixing. Investment will be mixed and poured under a controlled vacuum environment. 13lbs powder capacity.

St. Louis #82- PT (76-115-P)

Platinum investment unit supplied with particular mixing container and special cross blade. The #82-PT comes equipped with a separate standard mixing container to be used for gold investment powder as well as a syringe for additive independent loading of binder. Investment will be mixed and poured under a controlled vacuum environment. 13lbs Gold and 6lbs Platinum capacity.

Specifications:

Item #:	76-113-MINI	76-113-4KG-P	76-115	76-115-P
Powder Capacity	2 lbs	8 lbs	13 lbs	13 lbs Gold / 6 lbs Platinum
Max Flask Height	4.5"	7.75"		7.75" Gold / 3.75" Platinum
Flask Plate Diameter	3.9"	5.9"	11"	
Machine Dimensions	11.8" L x 13.7" W x 28.3" H	11.8" L x 13.7" W x 37.4" H	19.2" L x 16.5" W x 41.3" H	18.1" L x 16.5" W x 41.3" H
Voltage	220V 1 Phase			
Weight (Unpacked)	44 lbs	52 lbs	134 lbs	154 lbs
Suggested Vacuum Pump Size	6/10 m ³ (5-CFM)	6/10m ³ (8 CFM)	6/10m ³ (10 CFM)	18 m ³ (10 CFM)

St.Louis Investment Mixers

Heavy Duty Stand Alone Mixers



St. Louis 2000- 10 / 14 (76-114 / 76-114-14XL)

The St. Louis 2000-10 & 2000-14 machines are the only patented system to blend investment under vacuum and shorten working time, all while being extremely user friendly. The machine guarantees a better environment both for the operator and others working in the same area, as the sealed system eliminates toxic dust from the atmosphere. Complete de-gassing of the investment and various mixer speeds suitable for every type of investment. Vacuum pump included. Up to 22 lbs powder capacity for the 2000-10 and 30 lbs for the 2000-14.

St. Louis 2000 XXL-22 (76-131)

The only patented system to blend investment for fusion, eliminating any presence of gas, the St. Louis 2000 XXL-22 mixer has all of the compelling features of the 2002-XL with an increased capacity. Due to a heavy weight of the mixing container filled with powder, the unit is supplied with a side metal cabinet with rollers and digital scale for the easy transfer of the mixing container in it's working position. 100 cbm/h vacuum pump included, voltage: 380V, 3 Phase. Up to 48 lbs powder capacity.

St. Louis 2002-XL (76-130)

Equipped with all the compelling features of the St.Louis 200- 10/ 14 machines, the St. Louis 2002-XL is a heavy-duty automatic unit, designed for multiple flasks filling in each single investment preparation. Up to 30 lbs powder capacity.

Specifications:

Item #:	76-114 / 76-114-14XL	76-130	76-131
Powder Capacity	22 lbs / 30 lbs	30 lbs	48 lbs
Max Flask Height	13"		15.7"
Flask Plate Diameter	14.1"	12.9"	17.1"
Machine Dimensions	24.4" L x 25.9" W x 67.7" H	28.3" L x 31.4" W x 68.8" H	22.44" L x 47.2" x 48.4" H 28.3" L x 31.4" W x 68.8" H (w / side rollers and scale)
Voltage	220 V 1-ph	220 V 1-ph + 380 V 3-ph	220 V / 380 V
Weight (Unpacked)	462 lbs	352 lbs	346 lbs / 507 lbs (w / side rollers and scale)
Suggested Vacuum Pump Size	40/50 m ³ (21 CFM)	100m ³ (21 CFM)	100m ³ (21 CFM)

Vac-U-Vest Investment Mixers

Manufactured in England, Vac-U-Vest Investment Mixers are available in a range of five varieties for all types investment powders for platinum, gold & silver. Eliminates air bubbles from investment slurries for consistent mixing, producing consistent quality castings.



#15



#25



Main Features

- Mixes and pours investment under vacuum
- Mixing tank and flask chamber are coupled via pouring valve
- Flasks are held in vacuum
- Five machines in the series, compatible with all makes of casting machines
- Will mix investments for gold, silver and brass casting

Benefits

- Eliminates Air Bubbles from investment
- Consistently mixes investment
- Reduces rejects
- Easy to use, in line with all types of casting machines
- Reduces exposure to harmful silica dust

Investment Mixer Operation

Step 1: Load pre-weighted water and powder. Mix under vacuum for 5-6 minutes

Step 2: Pour mixed slurry, via valve, to each flask in turn, with the assistance of the turntable

Step 3: Once pouring is complete, vacuum for 1 minute. Then, release vacuum and retrieve flasks.

Step 4: Switch on water wash and remove all remaining investment slurry.

Specifications:

Item #	76-2005-RM	76-2003-RM
Model	Vac-U-Vest #15	Vac-U-Vest #25
Power	220V Single-Phase 60Hz	220V Three-Phase 60Hz
Pouring Valves	1	2
Investment Capacity	33 lbs Dry Powder	55 lbs Dry Powder
Inner Chamber Diameter	15.5"	21"
Maximum Flask Height	10.25"	10"
Machine Dimensions	28" L x 31" W x 61" H	42" L x 36" W x 62" H
Suggested Vacuum Pump	15 up to 28 CFM	28 up to 45 CFM
Shipping Weight	510 lbs	1070 lbs

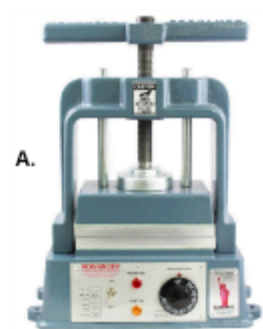
Vulcanizers

Standard Table-Top Vulcanizer

Romanoff tabletop vulcanizers feature a heavy-duty aluminum cast construction, accurate thermostat, heavy guideposts to ensure perfect alignment of top and bottom plates, on-off switch with separate pilot light, thermostat pilot indicating light, a 1" diameter pressure screw, and a bar-type handle which allows for maximum pressure on the mold.

- Voltage:** 110V or 220V • **Opening Max:** 2 3/4"
Plate Size: 8" W x 5" D • **Dimensions:** 15" W x 8" D x 18" H
Max Temp: 550°F (288°C) • **Weight:** 39 lbs

Description	Item #	Each
A. Standard Table-Top Vulcanizer 110V	73-047	\$877.00

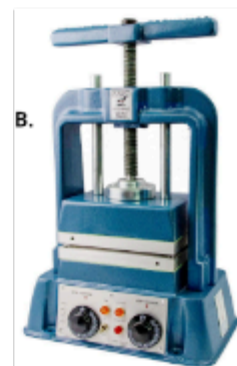


Deluxe Dual Thermostat Table-Top Vulcanizer

Equipped with all of the features and benefits of the standard Romanoff Table-Top Vulcanizer, the deluxe table top vulcanizer, with dual thermostat, enables you to control both top and bottom heating elements independently, adequately compensating for heat rise.

- Voltage:** 110V or 220V • **Opening Max:** 4"
Plate Size: 8 1/4" W x 6" D • **Dimensions:** 14" W x 9" D x 20" H
Max Temp: 550°F (288°C) • **Weight:** 56 lbs

Description	Item #	Each
B. Deluxe Dual Thermostat Table-Top Vulcanizer - 110V	73-002-D	\$1,247.00



Wax Injectors

Since 1949, our wax injectors have been well known for their durability and heavy-duty construction. All Romanoff Wax injectors can accept a hand pump when an air compressor is not available. 220V available.

- Large easy to remove tight-sealing cover eliminates pre-melting
- Pressure gauge can be increased or decreased easily
- Sealed nozzle will not leak or freeze
- Automatic air pressure release valve ensures operator safety
- Accurate dial thermostat for continuous temperature control
- Power indicator light and on/off switch
- Max Temperature: 250° F/ 121° C



74-057-PMP
Optional hand pump
available for each machine

Mini Wax Injector - 1 1/2 qt

Wax Capacity: 2.5 lbs wax (1.13 kg) **Weight:** 15 lbs **Dimensions:** 7.75" Dia. x 10" High

Description	Item #	Each
C1. Mini Wax Injector - 1 1/2 Qt 110V	73-040	\$558.00
C2. Mini Wax Injector - 1 1/2 Qt 110V With Hand Pump	73-040-HP	\$830.00
C3. Wax Injector Hand Pump Only - 3/4 fitting	74-057-PMP	\$200.00



Super Jr. Wax Injector - 2 3/4 qt

Wax Capacity: 5 lbs of wax (2.3Kg) **Dimensions:** 10.5" Dia. x 14" High **Weight:** 27 lbs

Description	Item #	Each
D. Super Jr. Wax Injector - 2 3/4 Qt 110V	74-075	\$636.00

Large Wax Injector - 4 Qt

Wax Capacity: 8 lbs of wax (23.6Kg) **Weight:** 34 lbs **Dimensions:** 10.5" Dia. x 21" High

Description	Item #	Each
E. Large Wax Injector - 4 Qt 110 V	74-057	\$894.00



MC Tabletop Casting Machines

MC 16, MC 20V, MC 60V, & MC 100V



Multi-Purpose Casting Machines

The MC series was designed to offer jewelry designers, goldsmiths, research and development departments, and dental laboratories an affordable yet highly professional casting machine.

MC series casting machines are fully programmable and can achieve rapid processing times, streamline mold manufacturing, are user-friendly and safe to use with consistent high-quality casting results and cost-effectiveness in mind.

MC 16 and MC 20V operators can cast small metal batches as low as 30 grams, making the MC series the most economical choice for metal casting.

Features & Benefits

- **Vibration Technology** for better form filling & consistent densities
- **Precision thermocouple** for accurate metal temperature measurements, enabling small-batch platinum and steel casting
- Up to **2+ Bar overpressure** for quality form filling
- **-1 Bar Vacuum-controlled** melting atmosphere to prevent oxidation



MC16 & MC20V



MC60V



MC 100V

Specifications:

	MC16	MC20V	MC60V	MC 100V
Item #	78-2050	78-2100	78-2200V	78-4500
Maximum Power / Electrical	3.5 KW 230V single phase			8 KW 3 phase x 400V Step-up Transformer (78-4500-T208)
Maximum Melting Temperature	2000° C	2000° C (via optical pyrometer)	1300° C	2000°C w/optical pyrometer 1300°C type N, 1400°C type S thermocouple
Crucible Capacity	100 g Gold 18ct 110g steel / 200g Platinum		450g Gold 18 ct 300g Silver 935	450g 18 kt gold 250g steel 500g platinum
Solid Flask Capacity	Up to ø 30/50/65/80mm x 80mm h		Up to ø 80/100mm x 120mm h	
Control Panel	LCD, full text readout			
Vibration	No	Standard		
Vacuum and Over-pressure After	-1 up to +2 bar			-1 to + 3 bar
Function Washing by Inert Gas	Standard			
Dimensions (D x W x H)	15.7" x 17.7" x 15.7"		15.7" x 17.7" x 17.7"	20" x 28" x 24"
Weight	59.52 lbs		70.54 lbs	132 lbs

MTC 100V Tabletop Casting Machines

Automatic Tabletop Casting Machine

Compact Platinum Casting Solutions

MTC 100V platinum casting machine is designed to provide excellent form filling with its novel high-speed pressure and tilting system. It ensures maximum casting quality by with perfect form filling, less porosity, and ultra-fine surface quality.

MTC 100V can cast up to **600g of Platinum** and is compatible with flasks up to Ø 100*150 mm. It can also be used to cast **gold and silver alloys and ingots**.

Its **automatic tilt and pressure build-up** feature allows this unit to create dense casts with excellent form filling with nearly zero user involvement. Just program, fill, and cast!

Features & Benefits

- Up to 600g Pt, for flasks up to Ø 100 x 150 mm
- Automatic tilting feature with adjustable speed and pressure build-up
- Cast gold and silver alloys
- Cast metal ingots with ease
- High quality multi-wavelength infrared pyrometer (optional)
- 8 kW induction power, up to 2100° C

Specifications:

MTC 100V	
Item #	78-1000
Maximum Power/ Electrical	8 KW 3 phase x 400V Step-up Transformer (78-4500-T208)
Maximum Melting Temperature	2000°C standard 2100° with dual spectrum optical pyrometer
Crucible Capacity	Up to 600g Platinum / 250g Steel Up to 450g 18k Gold / 250g Copper
Solid Flask Capacity	Up to ø 100 x 150 mm
Control Panel	LCD, full text readout
Auto. Vacuum / Overpressure	Standard
Vacuum & Overpressure After	-1 to + 3 bar
Function Washing by Inert Gas	Standard
Dimensions (L x W x H)	28" x 20" x 31" 30" x 20" x 56" (with stand)
Weight	176.36 lbs (209 lbs with stand)



MTC 100V is compact & easy-to-use with support for large flasks!



Cast large amounts of platinum, gold and silver with excellent results!



Optional stand with included storage also available for purchase!

MC16 / MC20V Deluxe Casting Kits

Gold, Silver, & Platinum up to 2000°C

MC16
78-2050



MC20V
78-2100



Item	Description	Each
1 74-925	MC16 Casting Kit 220V	\$22,695
2 74-927	MC20V Casting Kit 220V	\$27,613
3 76-113-MINI	St. Louis Mini Mixer 220V	Included
4 77-0911-A	Romanoff Super Blue Automatic Furnace 110V	Included



76-113-MINI



77-0911-A

(Inside Dimensions: 8 1/2" x 8 3/4" x 9")

MC16/MC20V Starter Kit



1 76-047-1	Stainless Steel Flask 80 x 80mm	8 78-2004	Gold Crucible - 100g
2 76-2007	Flask Saddle Adapter	9 78-2010	Protective Eye Lens
3 n/a	Graphite Mold and Steel Alloy	10 n/a	Air Filter with 8mm Fittings
4 n/a	Platinum Crucible Zircon Paint	11 78-2006	Quartz Crucible Protection Tube
5 005-013-M	Blue Tubing 8mm OD x 5mm ID	12 76-2002-PT	Thermocouple Protection Tube
6 76-2005	Stainless Steel Crucible - 100g	13 76-2002	Thermocouple Type N - 1300°C
7 76-2003	Platinum Crucible - 220g	14 78-2100-TG	80mm Flask Tongs

Included Casting Kit Products



1 Z14-305-606C	J-formula "606" Platinum Investment Ransom & Randolph Ultra Vest Investment - 40lbs	7 79-0305	Maun Sprue Cutter 6 1/2" length 80 x 80mm Stainless Steel Flasks	13a 76-109	3 Liter Measuring Pitcher
2 Z14-301-40	J-Break Platinum Investment Remover	8 76-047-I	80mm Cone Style 8mm Sprue Base	13b 76-109-250ML	250ml Graduated Measuring Cylinder
3 80-137-1CAR	3 CFM Vacuum Pump 110/220V	9 76-016-I	Non-Asbestos Paper Roll 2 1/2" x 1/4" x 75'	14 76-113-3W	Vacuum Investment & Casting Machine 3 Way Valve
4 7115A	Investment Scale 0-10lbs	10 76-0855	Adjustable Sprue Base Holder	15 74-048-S	Stiff Wax Sprue Rods 6" x 3/8" - 45 rods/lb
5 76-110	Max Wax Speed Pen	11 21.890-1	Platinum Wax Mushroom Base 5 Pack	16 76-0881-4RND	Non-Asbestos Paper Bases - 4" OD x 3 1/4" ID
6 74-006		12 74-000-WC			

MC60V Deluxe Casting Kit (74-931)

Gold & Silver up to 1300°C

Casting Kit Machines

Item	Description	Each
1 74-931	Indutherm MC60V Casting Kit 220V	\$28,6423
2 76-113-4KG-P	St. Louis Mixer 4kg 220V	Included
3 77-0907	Romanoff Super Blue Automatic Furnace 110V	Included



(Inside Dimensions: 8 1/2" x 9" x 12")

1 78-4508	Adjustable Flask Saddle Adapter	7 005-013-M	Blue Tubing 8mm OD x 5mm ID
2 76-0661-I	Stainless Steel Flask 100 x 120mm	8 n/a	Air Filter With 8mm Fittings
3 78-2006	Quartz Crucible Protection Tube	9 76-019-I	100mm Cone Style 8mm Sprue Base
4 n/a	Graphite Mold and Steel Alloy	10 78-4502	Thermocouple Type N - 1300°C
5 78-2504	Gold/Silver Crucible 450g	11 78-4502-PT	Thermocouple Protection Tube
6 78-2010	Protective Eye Lens	12 78-2200-TG	Flask Tongs (MC60, MC100)

MC60V Starter Kit



Included Casting Kit Products



1 Z14-301-40	Ransom & Randolph Ultra Vest Investment - 40lbs	7 21.890-1	Adjustable Sprue Base Holder
2 7119	10 CFM Vacuum Pump 110/220V	8a 76-109	3 Liter Measuring Pitcher
3 76-110	Investment Scale - 0-10 lbs	8b 76-109-250ML	250mL Graduated Measuring Cylinder
4 79-0305	Maun Sprue Cutter - 6 1/2" Length	9 76-113-3W	Vacuum Investment & Casting Machine 3 Way Valve
5a 76-016-I	80mm Cone Style 8mm Sprue Base (2ea)	10 74-048-S	Stiff Wax Sprue Rods - 6" x 3/8" - 45 rods/lb
5b 76-019-I	100mm Cone Style 8mm Sprue Base	11 78-006	Max Wax Speed Pen
6a 76-047-I	(x2) Steel Flasks - 80 x 80mm	12 74-4507	MC100V/60 Adjustable Flask Adapter 80mm
6b 76-0661-I	Stainless Steel Flasks - 100 x 120mm		

MC100V Superior Casting Kit (74-929)

Gold, Silver, & Platinum up to 2000°C

MC100V



78-4500



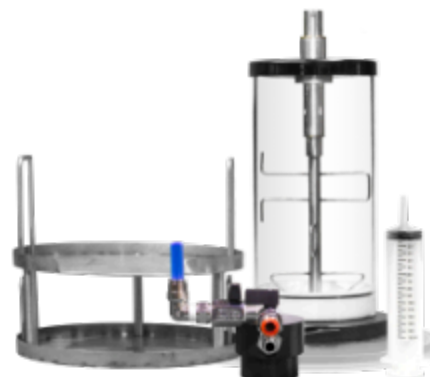
76-115



77-0907

(Inside Dimensions: 8.5" x 9" x 12")

Platinum Investment Mixing Upgrade Kit



76-115-1

Item	Description	Each
1 74-929	Inductherm MC-100V Casting Kit	\$52,154.00
2 76-115	St. Louis Mixer 6KG	Included
3 77-0907	Romanoff Super Blue Automatic Furnace	Included

Item	Description	Each
4 76-115-1	Platinum Investment Mixing Upgrade Kit	Optional

MC100V Starter Kit



1 78-4508	Flask Saddle Adapter	8 005-013-M	Blue Tubing 8mm OD x 5mm ID
2 76-067	Stainless Steel Flask 100 x 120mm	9 n/a	Air Filter With 8mm Fittings
3 78-2006	Quartz Crucible Protection Tube	10 76-018	100mm Cone Style 8mm Sprue Base
4 n/a	Graphite Mold and Steel Alloy	11 78-4502	Thermocouple Type N - 1300°C
5 78-2504	Gold/Silver Crucible 450g	12 78-4502-PT	Thermocouple Protection Tube
6 78-4503	Platinum Crucible 500g	13 78-2200-TG	Flask Tongs (MC60, MC100)
7 78-2010	Protective Eye Lens		

Casting Kit Products



1 Z14-305-606C	J-formula "606" Platinum & Blue Binder - 45 lbs	9b 76-019-I	100mm Cone Style 8mm Sprue Base
2 Z14-301-40	Ransom & Randolph Ultra Vest Investment - 40 lbs	10 21.890-1	Adjustable Sprue Base Holder
3 78-4507	MC100V/60 Adjustable Flask Adapter 80mm	11 74-000-WC	Platinum Wax Mushroom Base 5 Pack
4 7119	10 CFM Vacuum Pump 110V	12a 76-109	3 Liter Measuring Pitcher
5 76-110	Investment Scale 0 - 10lbs	12b 76-109-250ML	250ml Graduated Measuring Cylinder
6 76-047-I	80 x 80mmmm Stainless Steel Flasks (2ea)	13 76-113-3W	Vacuum Investment & Casting Machine
7a 76-0661-I	100 x 120mm Stainless Steel Flasks (2ea)	14 74-048-S	3 Way Valve
7b 74-006	Max Wax Speed Pen	15 76-0855	Stiff Wax Sprue Rods - 6" x 3/8" - 45 rods/lb
8 79-0305	Maun Sprue Cutter - 6.5" Length	16 76-0881-4RND	Non-Asbestos Paper Roll - 2.5" x 1/16" x 75'
9a 76-016-I	80mm Cone Style 8mm Sprue Base (2ea)	17 80-137-1CAR	Non Asbestos Paper Bases - 4" OD x 3.25" ID (Pack of 20)
			J-Break Platinum Investment Remover

Sprue Cutting

KWS Pneumatic Sprue Cutter With Foot Pedal

This unique, down stroke pneumatic sprue cutter is the highest quality in the world. The unit's power is maximized by a short stroke piston. The cutting blades are made of high quality tool steel. Made in Germany.

Description	Item #	Each
A1. KWS Pneumatic Spruce Cutter	79-062-G	\$4,776.95
A2. Standard Two-Edge Cutting Blade	79-062-NC	\$299.00

Niles #35 Pneumatic Sprue Cutter

An excellent pneumatic spruce cutter with exceptional flexibility. This cutter is light enough to be held by hand, but comes supplied with a base for permanent mounting and is operated by a foot pedal. This fine pneumatic sprue cutter is supplied with a standard flat blade, P/N Z16-532-4 (S7P). The cutting capacity of this unit is a 4mm sprue. Made in Japan.

Description	Item #	Each
B. Niles #35 Pneumatic Sprue Cutter	Z16-532	\$629.00
C. Niles S7P Hard Steel Pointed Blade for #35 Cutter	Z16-533-4	\$129.65
D. Niles Z8P Carbide Blade for #35 Cutter	Z16-533-6	\$409.00

Maxi-Shear Orange Super Flush Cutter

The Maxi Shear Flush Cutters feature a patented cutting action which means it is tough enough to cut sprues and precise enough to cut a human hair with a perfect flush cut. 5.8" long (148mm). Cutting capacity up to 2.1mm sprue in yellow gold. Made in USA.

Description	Item #	Each
E. Maxi-Shear Orange Super Flush Cutter	P3-108-6R	\$17.49

Bergeon Heavy-Duty Sprue Cutter

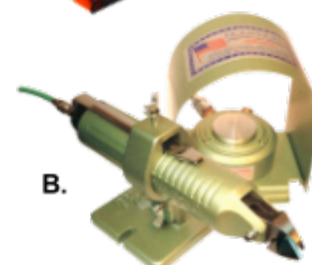
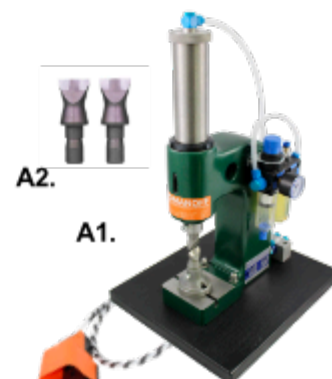
The pressure of this cutter is multiplied many times by the unique linkage that is built into the cutter. Imported from Switzerland, this is the finest cutter of its kind. What was once a time-consuming job can now be done in seconds. The replacement blades are made of hardened steel that will make a clean cut in one closing action. *Manufacturer does not warranty the blade. Made in Switzerland.

Description	Item #	Each
F. Bergeon Heavy-Duty Sprue Cutter: Cuts up to 3mm - 10 1/2" (L)	79-064	\$211.35
G. Replacement 22mm Cutting Edge Blade	79-064A	\$159.00
H. Replacement Spring for Bergeon	79-064-SP	\$12.95

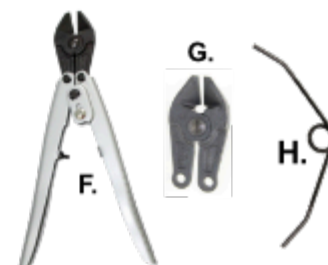
6-Gallon Silent Air Compressor

Unit includes a tank and line pressure gauge, line pressure regulator, moisture trap-filter-gauge, safety valve and air intake filter. This unit is quiet in operation with a simple automatic control. Oil-less operation. It is important to note, all air lines must be tight and leak free or the unit will run continuously and may eventually over-heat.

Capacity	Item #	Wattage	Airflow	Max Pressure	Noise	Dimensions	Voltage	Price
I. 6 Gallon	81-0074-R	600W	118 L /Minute	116 psi	52 db	16" x 16" x 21"	110V	\$779.00



FIGURE



Vacuum Casting Machines

Semi-Automatic VC Versions



VC 400

VC 400 - The ideal machine for smaller scale operations that produce moderate quantities but require considerably more capacity than what is offered by the MC machines. The VC 400, equipped with induction generator that guarantees rapid heat-up and thorough mixing of molten metal through inductive bath movement.

VC 500 - For larger production quantities with continuous casting operation. Provides enhanced performance via shorter casting times with even larger crucibles and flask capacities (flasks up to 160 mm / 400mm H).

The machines high maximum temperature of 1600°C extends the possible range of alloys.



Load your metal grain of choice into the casting chamber



Exceed your throughput demands with Inductherm's wide variety of high-capacity casting machines!

Granulating Tanks for VC & CC Series Casting Machines



Available for all VC series machines from VC 400 through the VC 12000 as well as all CC machines.

Tank	Compatibility
A. GU 500	VC 400 - VC 650V
B. GU 1000	VC 1000, CC 1000
C. GU 3000	VC 3000, CC 3000



VC 500 with Optional Shotmaker

Specifications:

	VC 400	VC 500
SKU	78-3001	78-3500
Maximum Power/ Electrical	3.5 kW Single Phase 230V or 4.5 kW Three Phase 400V (1400°C)	10 kW Three Phase 400V Three Phase 208V(1600°C)
Crucible Capacity	68mm (ID) = 2.5kg Gold 18kt (Standard)	78mm (ID) = 3.6 kg 18kt Gold (Standard) 88mm (ID) = 5.8 kg 18kt Gold (Optional)
Maximum Flask Size	130 mm / 240 mm h	130 mm / 240 mm h (Standard) or 160 mm /400 mm h (Optional)
Dual Temperature Control	Optional	
Flask Temperature Measurement	N/A	Standard Equipment
Auto. Vacuum/ Overpressure	Standard	Standard Equipment
Flask and Chamber Lift	Optional	Standard Equipment
Temperature Programs	20 Temperature Programs	20 Temperature Programs
Turbo Pressure Function	Standard Equipment	
RS 232, Diagnostic System	Standard Equipment	

Vacuum Casting Machines

Fully-Automatic VC Versions

Turbo Pressure

Allows a precisely defined pressure to be rapidly achieved optimizing the casting of very small and filigree objects. Guarantees perfect results for jewelry production it when casting with stones. For all program-controlled VC models, depending on the selected program, Turbo Pressure will start automatically exactly at the required time.

Highest Levels of Safety for Certified Production

The ISO certified casting process of the VC series machines provide the user with enhanced safety features and highly specialized program control. Flasks with incorrect or different temperatures until recently posed a significant quality and safety risk. VC casting machines eliminate this issue with flask temperature monitoring technology, accurate within a singular degree.

Consistently Superior Casting Quality

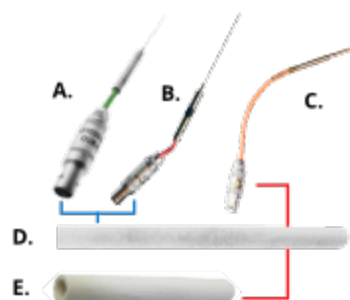
The special "oxidation-reduced casting" system in the VC series eliminates the danger of oxidation during flask cool down. Tensile strength is up to 25% higher. Encounter fewer problems from later processing such as sizing of ring and setting of stones. Automatic inert gas or vacuum in the melting chamber prevents undesired oxidization, or the formation of inclusions, during melting, which is particularly important when casting silver or red gold.



Specifications:

	VC 450 / VC 450 V	VC 480 V	VC 680 V
SKU	78-3300/ 78-3300-V	78-3400	78-4100
Maximum Power/ Electrical	4.5 kW 3 x 400V (1400° C)	8 kW 3 x 400V (1600° C)	12 kW 3 x 400V (1700° C)
Crucible Capacity	68mm (ID) = 2.5kg Gold 18 ct*		78mm (ID) = 3.6 kg Gold 18 ct* 88mm (ID) = 5.8 kg Gold 18 ct* (Optional)
Maximum Flask Size	130 mm / 240 mm h		130 mm / 240 mm h 160 mm / 400 mm h (Optional)
Vibration Technology	VC 450 V Only	Standard	
Pneumatic Bell Lock	Standard		
Maximum Pressure	1.5 bar		3 bar
Programs With LCD Display & Full-Text Readout	20	100	
Dual Temp. Control	Optional		Standard
Flask Temp Measurement	---		Standard
Automatic Flask & Chamber Lift	Standard		
Variable Vacuum in Flask Chamber	---	Standard	
Turbo Pressure Plus System	---	Standard	
Turbulence Reduction System	Standard		
RS 232, Diagnostic System	Standard		
Data Printer	Optional		Standard
GSM Modem for Remote Service	Optional		Standard
Sintering Kit (for diffusion bonding)	Optional		
Granulation Tank	Optional		
Automatic Feeding System w/ Automatic Feeding Rod	---		
Additional Gas Tank for Turbo Pressure Plus	---		

Indutherm Thermocouples & Ceramic Protection Tubes



Thermocouple	Item #	Each	Protection Tube Length	Item #	Each
A. K-Type Green 1200°C Crucible Side Wall	78-3508	\$169.00	D. Crucible Side Wall 90mm	78-3508-PT	\$38.85
B. N-Type Pink 1300°C Crucible Side Wall	78-3508-N	\$221.50	E. Center Stopper 50mm	78-3508-1PT	\$41.95
C. N-Type 1300°C Center Stopper	78-3508-N1	\$244.50			

Indutherm Graphite Sealing Rods for 68mm & 78mm ID Crucibles



Description	Material	Dimensions	Item #	Each
F1. Original Solid	Graphite	12mm x 174mm	78-3504	\$39.95
F2. Non-OEM Solid	Graphite	12mm x 174mm	78-3504-R	\$29.95
F3. Original Hollow for Thermocouple	Graphite	12mm x 174mm	78-3504-S	\$41.60
F4. Original Solid	Ceramic	12mm x 174mm	78-3504-C	\$104.35

Fiber Filling Cone & Crucible Bottom Insulation for 68mm Crucibles



Description	Dimensions (ID x OD x H)	Item #	Each
G1. Upper Fiber Filling Cone	50mm x 200mm x 20mm	78-3010	\$38.75
G2. Bottom Crucible Insulation	20mm x 68mm x 25mm	78-3006	\$26.40

Graphite Crucibles Casting & Shotting

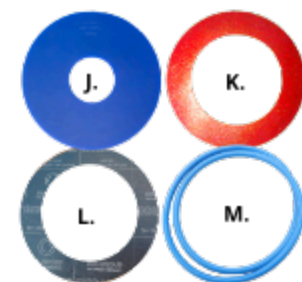


Description (Original)	Item #	Each	Description (NON OEM)	Item #	Each
H1. 68mm Dia. Crucible 8mm hole Cast	78-3002	\$95.90	I1. 68mm Dia. Crucible 8mm hole Cast	78-3002-R	\$74.95
H2. 68mm Dia. Crucible 2mm hole Shot	78-3003	\$89.95	I2. 78mm Dia. Crucible 8mm hole Cast	78-3502-R	\$89.85
H3. 78mm Dia. Crucible 8mm hole Cast	78-3502	\$119.00			

Outer Crucible Shield

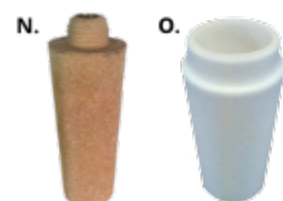
Description	Dimensions	Item #	Each
I1. 68mm Outer Shield	68mm x 88mm x 140mm	78-3002-SH	\$50.50
I2. 78mm Outer Shield	78mm x 100mm x 140mm	78-3503	\$59.40

Gaskets



Description	Dimensions (ID x OD x H)	Item #	Each
J. Blue Silicone Flask Gasket NO Flange	50mm x 150mm x 8mm	78-3505	\$32.95
K. Red Silicone Flask Gasket (4" Diameter W/ Flange)	110mm x 169mm x 2mm	78-3509	\$18.95
L1. Graphoil Gasket (4" Diameter Flask)	110mm x 169mm x 2mm	78-3511	\$20.45
L2. Graphoil Gasket (5" Diameter Flask)	135mm x 169mm x 2mm	78-3511-4	\$26.95
M. O-Ring Crucible Chamber Gasket	50mm x 150mm x 8mm	78-3015	\$48.95

Inlet and Exhaust Filters



Description	Dimensions	Item #	Each
N. Brass Inlet Filter (Not for VTC Models)	N / A	78-3511-2	\$33.00
O. White Exhaust Filter (VC & VTC Models)	38mm x 90mm	78-4004-01	\$60.05

MC Series Spare Parts & Consumables

Indutherm Casting Crucibles & Crucible Shields

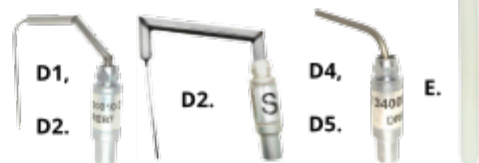
Description	Machine	Capacity	Dimensions	Item #	Each
A1. Gold/Silver	MC16, MC20V	100g	45 x 61 mm	78-2004	\$49.95
A2. Gold/Silver	MC60V	450g	53 x 130 mm	78-2504	\$109.95
A3. Gold+Silver	MC100V, VTC100V	450g	46 x 78 mm	78-4504	\$108.95
B1. Platinum	MC16, MC20V	250g	40 x 65 mm	78-2003	\$81.95
B2. Steel, NiCr, Cobalt	MC16, MC20V	110g	40 x 57 mm	78-2005	\$41.95
B3. Large Platinum No Cover	MC100V, VTC100V	500g	67 x 88 mm	78-4503	\$86.95
B4. Small Platinum w/Cover	MC100V, VTC100V	350g	68 x 68 mm	78-4503-CS	\$117.95
B5. Stainless Steel	MC100V, VTC100V	250g	50 x 90 mm	78-4505	\$76.95
C1. Crucible Shields	MC16, MC20V	---	42 x 92 mm	78-2006	\$159.95
C2. Crucible Shields	MC60V, MC100V	---	44 x 117 mm	78-2506	\$255.02



Indutherm Thermocouples & Ceramic Protection Tubes

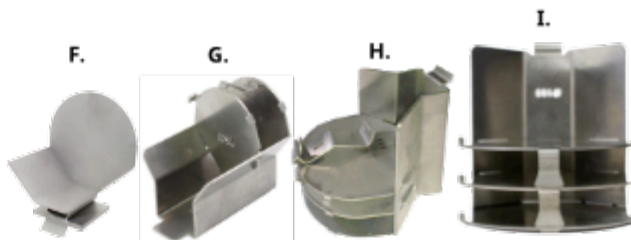
Description	Machine	Max Temp.	Item #	Each
D1. "N" Type	MC16, MC20V	"N" 1300°C	78-2002	\$269.95
D2. "N" Type	MC60, MC100V	"N" 1300°C	78-4502	\$270.95
D3. "S" Type	MC16, MC20V	"S" 1600°C	78-2002-HT	\$656.95
D4. Dummy	MC16, MC20V	N/A	78-2002-DP	\$91.95
D5. Dummy	MC100V	N/A	78-4502-DP	\$97.95

		Dimensions	Item #	Each
E1. Protection Tube	MC16, MC20V	40mm (L)	78-2002-PT	\$53.95
E2. Protection Tube	MC60V, MC100V	75mm (L)	78-4502-PT	\$64.95



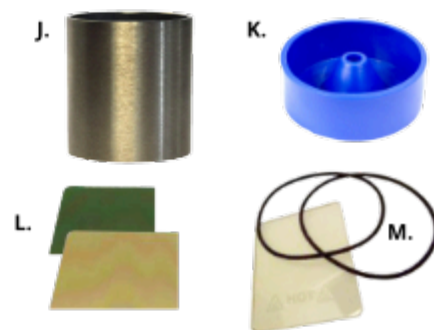
Indutherm Flask Saddle Adapters

Machine	Flask Saddle	Item #	Each
F1. MC15+	2" ø (50mm)	78-2009	\$124.95
F2. MC15+	2.5" ø (65mm)	78-2008	\$132.95
F3. MC15+	3" ø (80mm)	78-2007	\$169.95
G1. MC16, MC20V	2" ø (50mm)	78-2508	\$127.95
G2. MC16, MC20V	2.5" ø (65mm)	78-2509	\$132.95
G3. MC16, MC20V	3" ø (80mm)	78-2510	\$169.95
H. MC60V, MC100V	3" ø (80mm)	78-4507	\$296.95
I. MC60V, MC100V	4" ø (100mm)	78-4508	\$248.50



Indutherm Stainless Steel Flasks & Rubber Sprue Bases

Flask Sizes	Item #	Each	Sprue Base Sizes	Item #	Each
J1. 1.18" (30 x 55mm)	76-024-I	\$19.95	K1. 1.18" (30mm)	78-2009-B	\$27.95
J2. 2" (50 x 55mm)	76-031-I	\$21.95	K2. 2" (50mm)	76-015-I	\$32.95
J3. 2 1/2" (65 x 80mm)	76-039-I	\$25.95	K3. 2 1/2" (65mm)	78-2014	\$32.95
J4. 3" (80 x 80mm)	76-047-I	\$39.55	K4. 3" (80mm)	76-016-I	\$32.95
J5. 4" (100 x 120mm)	76-0661-I	\$69.95	K5. 4" (100mm)	76-019-I	\$32.95



Indutherm MC Machine Accessories

Description	Machine	Dimensions	Item #	Each
L. Yellow Platinum Lens Cover	MC16, 20V, 100V	70 x 80mm	78-2010	\$48.95
M. Clear Window & Gaskets	MC16, 20V, 60V, 100V, VTC 480V	70 x 80 x 4mm	78-2011	\$84.95
M. Orange O-Ring Door Gasket	MC15+, 16, 20V	4 x 200mm OD	78-2012	\$36.95
O. Flask Tongs	MC15+, 16, 20V	ø80mm Flasks	78-2100-TG	\$89.95
P1. Induction Coil	MC15, 15+	---	78-2013	\$495.95
P2. Induction Coil	MC20V	---	78-2113	\$495.95
P3. Induction Coil	MC100V	6.5 turns ø55mm	78-4513	\$539.95
Q1. Solenoid Valve	MC15+, 16, 20V, 60V	---	78-2023	\$417.95
Q2. Solenoid Valve	MC100V	---	78-4515	\$386.25
R. Glass wool for sides	MC16, 20V	200 x 115 x 10mm	78-2115	\$51.95
S1. Glass wool for lower chamber	MC16, 20V	---	78-2115-B	\$48.95
S2. Glass wool for lower chamber	MC60V, 100V	10 x 530 x 160mm	78-4514	\$51.95
T. White Vacuum Filter Element	All MC Machines	25mm x 36mm	78-2019-EF	\$41.95



Large Vacuum Casting Machines

For Casting of Large Parts



VC 1000V



VC 3000V

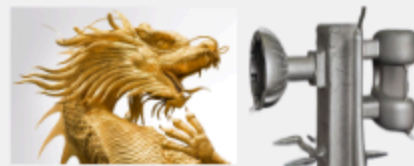


VC 12000V

Indutherm's large vacuum pressure casting machines are primarily used for precise castings in aluminum alloys or for art and crafts objects in brass or bronze. They are always the first choice for parts with complicated geometry or when the number of pieces is not large enough for die-cast production.

The VC 1000 V, 3000 V, and 12000 V offer the best pre-conditions for high-quality castings in aluminum. The hydrogen content of aluminum alloys may be adjusted by regulating the vacuum during melting, thus preventing foaming of molten metal without any melt additives. Overpressure in the melting chamber during and after casting in addition to simultaneous vacuum in the flask chamber optimizes form filling, especially in filigree or thin-walled areas.

First Choice Among Top Casters



The VC Series offers the best pre-conditions for high quality aluminum casting. Ideal for pieces with complicated geometry or for smaller casting batches not large enough for die cast production.

Specifications:

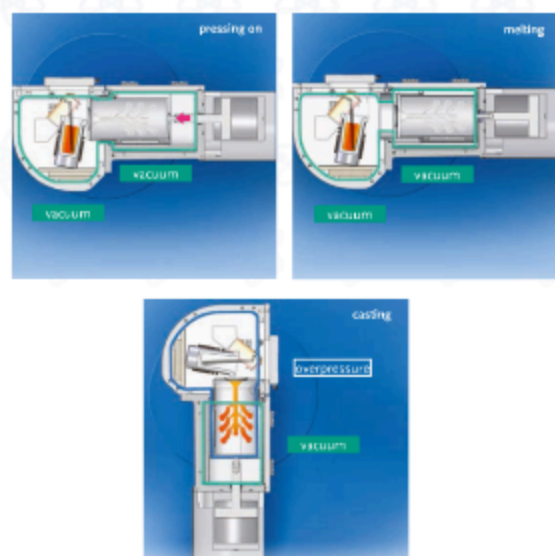
	VC 1000 V	VC 3000 V	VC 12000 V
Part Number	78-4450	78-4900	78-12000
Maximum Power/ Electrical	20 kW/ 3 x 400V / 40A	30 kW/ 3 x 400V/ 50A	40 kW/ 3 x 400V/ 50A
Vibration Technology	Yes		
Crucible Volume	1500 ccm = 4kg Al	3400ccm = 9kg Al	12000 ccm = 30kg Al
Flasks Up To (DxH)	250 mm x 500 mm	450mm x 600mm	600 mm x 800 mm
Temperature Measurement	S-type thermocouple up to 1500°C		K-type thermocouple up to 1200°C
Dual Temperature Control	Yes		
Temperature Programs	20		
Program (Control)	100 program channels(available just in VC 1000V)		
Automatic Flask & Chamber Lift	Yes (VC 1000V Only)		No
Flask Temperature Measurement	Yes		
RS 232 Diagnostic System	Yes		
Data Printer	Yes		
Granulation Tank	Optional		
Dimensions (WxDxH)	700 mm x 1000 mm x 1450 mm		1200 mm x 1600 mm x 2000 mm
Weight	250 kg	300 kg	900 kg
Cooling Water Supply	2.5- 5 bar (15- 30° C) ca. 300l/h	2.5- 5 bar (15- 30° C) ca. 300l/h	1200 mm x 1600 mm x 2000 mm
Room Temperature	10°C- 35°C		
Environment Humidity	20%-80%		
Compressed Air Supply	7- 8 bar		
Protective Gas Supply	3 to 5 bar, pure N2 or pure Ar		
Vacuum	0-20 mbar max, at least 40 m3/h		

Vacuum Tilt Casting Machines

VTC Series

Indutherm's VTC Series

Extremely versatile casting machines suitable for a wide range of applications and a number of options that were considered mutually incompatible up to now. While the VTC series was originally designed as a high-temperature casting machine for casting steel, palladium, platinum etc. (max. 2,000°C), the large flask capacity ensures more production and reduced costs when casting in gold, silver, copper, aluminum and other materials.



Sweep Mode Vibration System

The VTC Series' advanced vibration technology, paired with variable frequencies and the sophisticated vacuum/pressure system make for perfect casting results, even in metals like platinum and palladium. Machine operations are simple and safe thanks to their intuitive and easy-to-use LCD display.

Highly reactive metals such as titanium, copper, beryllium, amorphous steel, etc. can be challenging to cast. Following numerous modifications such as heavy duty valves and hose connections, special seals and an evacuation and inert gas flushing process tailored to the machine which can produce a full vacuum of 10 Cu. Mbar.

Specifications:

	VTC 100V	VTC 200V	VTC 400V	VTC 800V
Part Number	78-T4100 (78-T4100-TN)	78-T4200 (78-T4200-TN)	78-T4400 (78-T4400-TN)	78-T4800 (78-T4800-TN)
Maximum Power / Electrical Connection	12 kW / 3 x 400V	15 kW / 3 x 400V	20 kW / 3 x 400V	
Maximum Temperature	2100°C			
Graphite Crucible Volume	25 ccm = 450 gr Gold 18 ct	145 ccm = 2.0 kg Gold 18 ct	300 ccm = 4.0 kg Gold 18 ct	600 ccm = 4kg steel
Ceramic Crucible Volume	30 ccm = 600 gr Platinum/ 250g steel / (95gr Ti)	180 ccm = 2.5 kg Platinum / 1 kg steel / (450g Ti)	300 ccm = 2.0 kg steel / (900g Ti)	600 ccm = 4.0 kg steel / (1800gr Ti)
Maximum Flask Capacity	125 mm DIA x 220 mm H			
Vibration Technology	Standard Equipment - Sweep Mode			
Automatic Tilting With Motor Drive	Standard Equipment			
Automatic Flask Fixing	Standard Equipment			
Pyrometer With Video Output	Optional Equipment			
Dimensions (WxDxH)	700 mm x 800 mm x 1500 mm			

Continuous Casting Machines

CC & VCC Series



CC 400
VCC 400

VCC 400 with Optional
Quattro Drive



CC 1000
VCC 1000

VCC 1000 with Dual Drive



CC 3000
VCC 3000

CC 3000 with Optional
Quattro Drive

More Flexibility, Lower Costs



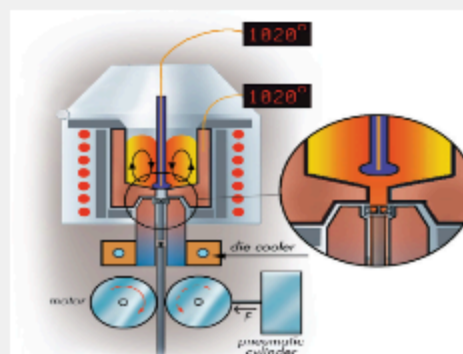
Induterm's CC & VCC Series continuous casting machines help you reduce production costs without sacrificing quality.

With a single machine, you can quickly cast alloys or semi-finished products in various shapes and

sizes with exceptional precision. Produce wires or bars in any diameter you need up to 40mm (CC 3000) as well as sheets, tubing, and strips for stamping, pressing, and ring production.

Key Advantages: Short change-over times for various casting sizes. Induction generators with low-frequency tuning for thorough metal mixing. Automated inert gas. High metal quality with minimal porosity.

Optional Quattro Drive System



The optional drawing unit with four instead of two motor driven feed rolls produce smoother tubes and sheeting with reduced marks of transportation.

Specifications:

	CC 400/ VCC 400	CC 1000/ VCC 1000	CC 3000/ VCC 3000
Part Number	78-6600 / 78-4550	78-4560 / 78-4560V	78-6800 / 78-4570
Maximum Temperature	1500° C		
Power Max. / Electrical Connection	15 kW 3 x 400V / 3 x 208V	25 kW 3 x 400V	30 kW 3 x 400V
Crucible Volume	285 ccm = 4.2 kg Gold 18 ct Optional 400 ccm = 6.0 kg Gold 18 ct	1500 ccm = 22 kg Gold 18 ct	3400 ccm = 51 kg Gold 18ct
Wire Production Up To	Ø15 mm	ø30 mm	ø40 mm
Tube Production Up To	ø30 mm	ø40 mm	ø50 mm
Sheet Production Up To	50 mm x 8 mm Optional 60 mm x 8 mm	100 mm x 10 mm	130 mm x 12 mm
16 Programs For Melting & Die Temp., Drawing Lengths, Stop time, Reverse Draw	Standard		
Vacuum/Inert Gas Overpressure	VCC400 Only	VCC1000 Only	VCC 3000 Only
Neutral Inert Gas Atmosphere	Standard		
RS 232, Diagnostic System	Standard		
Data Printer	Standard		
GSM Modem For Remote Service	Optional		

Granulating Machines

GU Series



Intuitive Granulation Solutions

Specifically developed for the granulation of metal bullions into precise grains, the Indutherm GU "shotmaker" series machines are the ideal choice for frequent or permanent granule production.

Each machine is designed specifically to suit the volume and production needs of its operator(s). Accompanying crucible sizes range from 245 ccm up to 12,000 ccm.

Major applications include preparation of alloys out of gold and master alloy, alloy components, alloys from components, and clean-up of previously cast metal.



Specifications:

	GU500	GU1000	GU3000	GU12000
Part Number	78-4600	78-4700	78-4800	78-48100
Power Max. / Electrical Connection	10 kW / 3x400V 50A	25 kW / 3x400V 32A	30 kW / 3x400V 50A	40 kW / 3x400V 63A
Maximum Temp.	1600°C	1600°C	1500°C	1600°C
Thermocouple Options	Up to 1300°C N Type or 1600°C S Type	Up to 1300°C N Type or 1600°C S Type	Up to 1300°C N Type or 1500°C S Type	Up to 1600°C B Type
Crucible Volume	245 - 386 ccm ~ 3.6-5.7 kg Gold	1500 ccm = 22 kg Gold 18ct	3400 ccm = 51 kg Gold 18ct, 30 kg Silver	12000 ccm = 180 kg Gold 18ct
Supports Inert Gas Argon or Nitrogen	Yes - At 1.5 to 2.0 Bar Pressure		Yes - At 3.0 Bar Pressure	
Cooling Water Supply	2.5-6 Bar / At Least 200l/h		2.5 - 6 Bar/ At Least 300l/h	
Vacuum (Optional)	0 - 20 Mbar Absolute, At Least 21m³/h			
Weight	120 kg	220 kg	300 kg	590 kg
Dimensions (WxDxH)	500 mm x 1400 mm x 820 mm	700 mm x 1000 mm x 1450 mm	800 mm x 1100 mm x 1450 mm	1250 mm x 1000 mm x 1450 mm

Tilt Induction Melting Machines

TF Series



Melt Large Quantities of Metal

Melt metals such as antique gold or manufacturing residues like casting waste, scrap or swarf. 15 to 60 KW output and low-frequency tuning allows for fast melting excellent through mixing – even for large volumes of material.

Cast Large, Heavy Components

The TF Series is designed for casting large volumes of raw material into ingots or shell molds. When pouring off, the inductor/crucible unit is tilted forwards, using a pivot lever or wheel, with optional reduction. Since the operator must move away from the splash zone when pouring off, the wheel is recommended out of preference and safety reasons.

Two Metal Melting Giants!

Both the TF 6000 and TF 12000 sport enormous capacities with crucible volumes of 6,000 ccm and 12,000 ccm respectively. Due to the melt's large potential weight, the inductor/crucible unit is tilted with a motor drive and a stable shaft, as opposed to traditional manual tilting.



Specifications:

	TF 1200 / TF 2000 / TF 4000	TF 6000 / TF 12000	TF 2000 C / TF 4000 C
Part Number	78-61200 / 78-61300 / 78-6400	78-66000 - 78-612000	78-1300C - 78-1500C
Maximum Power (3x400V)	15 kW, 25 kW, 30 kW	40 kW, 60 kW	40 kW, 60 kW
Maximum Temperature	1500°C		1700°C
Temperature Measurements	Thermocouple		Optional Pyrometer
Crucible Volume	1,200ccm = 18 kg Gold 18ct 2,200ccm = 30 kg Gold 18ct 4,000ccm = 60 kg Gold 18ct	6,000ccm = 90 kg Gold 18ct 12,000ccm = 180 kg Gold 18ct	2,000ccm = 5 kg -14 kg Steel 4,000ccm = 8 kg - 30 kg Steel
Handling & Control	Tilting By Lever	Tilting With Motor Drive (Remote Control)	
Temperature Control	LCD Display, Full Text Readout		
Temperature Programs	20	100	20
Interface RS 232 Diagnostic System	Standard Equipment		
Dimensions (W x D x H)	700 mm x 600 mm x 1,250 mm	1,250 mm x 820 mm x 1,300 mm	700 mm x 700 mm x 1,250 mm

Induction Melting Machines

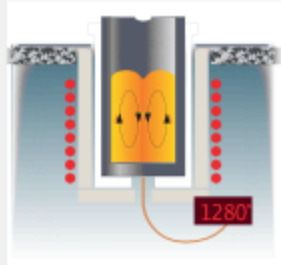
MU & MUV Series

With the MU and MUV-series, we offer melting machines for many different needs and with crucible capacities from 155 ccm up to 1,200 ccm. The material is molten in open crucibles and poured by hand into the casting mold or ingot mold.

These melting furnaces are designed to melt gold and silver alloys and as well as aluminum, bronze, brass. Due to the strong 15 kW induction generator (15 kW) and the low induction frequency the stirring effect of the metal is excellent.

Specifications:

	MU 200	MU 400 / MUV 400	MU 700	MU 900	MU 1200
Part Number	78-1200	78-1400 78-1400-V	78-1700	78-1025	78-1035
Power Supply	3.5 kW (230V/1ph)	10 kW (3x400V)	12 kW (3x400V)	15 kW (3x400V)	
Max. Temperature	1300°C	1500°C with S-Type Thermocouple			
Crucible Volume	155cm = 2.0kg Gold 18ct	400cm = 5kg Gold 18ct	700cm = 8.5kg Gold 18ct	900ccm= 11kg Gold 18ct	1200 ccm =14.5kg Gold 18ct



Induction Melting Technology

The crucible, with the material, is located in the core of the induction coil. By generating a strong alternating magnetic field, the result is a strong alternating current in the graphite crucible and in the metal. This leads to fast rapid heating and thorough mixing of the material.

Indutherm MU Induction Melting Crucibles (with Bottom Hole for Thermocouple)

	Description	Machine	Dimensions (ID x H)	Capacity	Item #	Each
A.	Graphite/Ceramic	MU 200	80mm x 140mm	2kg	78-1208	\$74.95
B.	Graphite/Ceramic	MU 400	120mm x 150mm	5 kg	78-1403	\$96.45
C.	Graphite/Ceramic	MU 700	75mm x 145mm	8.5 kg	78-1704	\$113.00

CEIA Induction Melting Crucibles

	Description	Machine	Dimensions (ID x OD x H)	Capacity	Item #	Each
D.	Graphite/Ceramic	F3	43mm x 70mm x 140mm	3kg	79-205-CC	\$79.20
E.	Graphite/Ceramic	F4	59 x 90 x 47mm	4 kg	79-220-CCO	\$83.60
F.	Graphite/Ceramic	F5	70 x 115 x 165mm	6kg	79-210-CC	\$98.80
G.	Graphite/Ceramic	F9/F10	80 x 120 x 160mm	10kg	79-215-CC	\$172.00



MU 900



MU 200





Precision Metal Powder Separation

Indutherm **AC series Air Classifiers** have been meticulously engineered for the exacting task of segregating metal powders into finely graded and coarser fractions. Their exceptional performance shines particularly in the sub-25 μm range, where traditional sieving methods fall short.

Thanks to the Easy-to-Clean concept, our Air Classifiers are exceptionally well-suited for production environments that require frequent adjustments in alloy composition or desired particle sizes.

The **AC G-series** is ideal for separating metals or alloys while avoiding oxygen, moisture, or room air contamination. An oxygen measuring system ensures precise control based on set values.

These machines find applications not only in research and development but also in large-scale systems, handling throughputs of up to 200 kg/h (whether it's bronze or steel) and featuring double-stage classification.



Separate Metals with Ease & Accuracy

Sort metals such as steel and bronze from sizes down to 4 μm of accuracy!

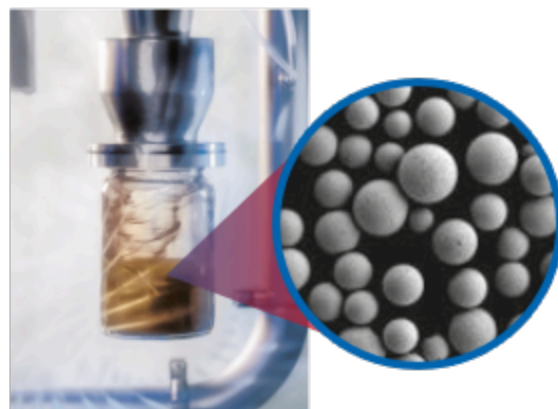
Key Features and Benefits

- High Separation Efficiency
- Easy handling & High Process Reliability
- separation of steel or bronze from ~4 to ~120 μm .
- Minimum metal loss and cross-contamination
- Short training period
- Optional protective gas classification (G Series)

Specifications:

	AC 1000	AC 1000G	AC 3000
Part Number	AC-1000	AC-1000G	AC-3000
Throughput (steel)	75 kg / h	75 kg / h	200 kg / h
Classifier range (steel)	4 - 120 μm	4 - 120 μm	4 - 120 μm
Number of cut points	Single stage	Single stage	Single/double stage
Process Atmosphere	Air	Inert gas	Inert gas
Generator kw (400 V)	20	30	40-60

Separate fine and coarse powders less than 25 μm in size!



Atomization Systems

AUS 500 Atomization System

For Compact Metal Powder Production

Indutherm's AUS 500 allows nearly anyone to create small batches of high-quality, spherical powder for the same applications as gas-atomized powder, all at an affordable price and without the need for a complex infrastructure.

The AUS 500 is available in various batch sizes ranging from 0.25 to 0.7 liters. Material melting and alloying occur within the crucible using either an indirect induction system (such as a graphite crucible) or a direct induction system for high temperatures (using a ceramic crucible). Additionally, the machine can be customized with a range of optional features to meet specific requirements

Key Features and Benefits

- Highly Spherical Powder Without Satellites
- Small Footprint. Only Requires 2m² of Space
- Material Loss & Alloy Chemistry Inaccuracy Prevention
- No Sophisticated Filtration Required
- Higher Frequency, Higher Yield



CREATE CUSTOM ALLOY POWDER IN JUST 4 EASY STEPS



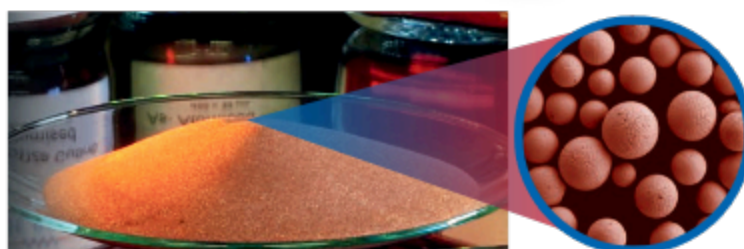
In any shape or form.
If your metal fits in the
Crucible, it can melt!

Up to 1800°C for most
non-ferrous metals



With production volume up to
several kg / hour for bronze

Enjoy your own highly-
spherical satellite-free metal
powder



**Make Perfectly Spherical Metal Powder
with No Satellite Defects!**

Specifications:

Part Number	76-3008
Generator Power	10 Kw
Max Temperature	1800°C
Volume in Bronze**	5.6 kg
Volume in Gold**	10kg AU 18 ct*
Crucible Volume	0.245 - 0.7 Liters

RCS & CCM Centrifugal Casting Machines



Rotating Coil System

The Most Advanced Universal Casting Machines

The Romanoff **RCS** and Romanoff **CCM** Centrifugal Casting Machines are capable of casting all precious metals and related alloys in a **vacuum controlled environment** with optional Optical Pyrometer temperature control up to 2000°C. These machines are noted for their high melting efficiency and speed.

Both machines come standard with a **built-in vacuum pump and argon gas circuit** with programmable vacuum/argon washing cycles to prevent gas contamination of the metal during cool down.

RCS & CCM Key Features

79-7100/ 79-700



Centrifugal Casting System

79-500-D1/ 79-500-D2



Rotating Coil System

The key benefit of the RCS system is that the arm rotates perpendicular to flask, **keeping the metal in liquid phase during the casting process**, ensuring high quality parts with excellent repeat-ability. Available in both **fully** and **semi-automatic** versions.

Built-In Micro-Processor

Ensures consistent quality castings, control of initial acceleration and final RPM. Comes with multiple user programs with configurable parameters: power level, rotation speed, acceleration, melting temperature, holding time.



Semi-Automatic



Fully-Automatic

Specifications:

	RCS 4 kW	RCS 5 kW	CCM 200	CCM 400
Part Number	79-7100	79-700	79-500-D1	79-500-D2
Rotating Coil	Standard		Fixed Coil	
Built-In Water Recirculator	Standard		Not Available	
Absorbed Power (max)	4 kW	5 kW	7.5kW	
Output Frequency kHz	60-105 kHz		50-80 kHz	
Power/ Line Phases	220V/ 1-Ph		380V/ 3-Ph	
Crucible Capacity	200g Platinum, 170g Gold		350g Platinum, 290g Gold	750g Platinum, 650g Gold
Flask Size mm (max)	80 mm x 75 mm		100 mm x 120 mm	120 mm x 160 mm
Control Panel	Semi-Automatic		Fully Automatic	
Programs	1		20	
Dimensions LxWxH	25.2" x 26.4" x 41.3"		39.4" x 32.7" x 42.5"	
Weight	342 lb (155 kg)		684.4 lbs (200 kg)	

RCS Casting Kit (74-928)



1 79-7100



2 77-0911-A



3 76-113-MINI

RCS Starter Kit



Description	Part Number	Each
Romanoff RCS Casting Kit	74-928	Request Pricing

RCS Machine Specifications:

Part Number	1 79-7100 (4kW)
Output Frequency kHz	60-105 kHz
Power/ Line Phases	220 V/ 1-Ph
Crucible Capacity	200g Platinum, 170g Gold
Max Flask Size (mm)	80mm D x 75mm H
Operation	Semi-Automatic
Dimensions (LxWxH)	25.2" x 26.4" x 41.3"
Weight	342 lbs

Item #	Description
1 n/a	Oil for Built-in Vacuum Pump
2 79-702-D	Gold Crucible (170g)
3 79-701	Platinum Crucible (200g)
4 n/a	Owner's Manual (USB)
5 n/a	Spacer for Flask Saddle
6 n/a	Tools
7 79-700-TONGS	Tongs for Flask

RCS Casting Kit Products

Item #	Description
2 77-0911-A	Super Blue 8.5" x 8.75" x 9" Programmable Furnace 110V
3 76-113-MINI	St. Louis Vacuum Mixer 220V Single Phase
4 7115A	Vacuum Pump 3 CFM 110/220V
5 76-110	Investment Scale 0 - 10 lbs
6 74-000-WC	Platinum Wax Mushroom Base - 5 Pack
7 74-006	Max Wax Speed Pen
8 79-0305	Maun Sprue Cutter - 6.5" (165mm) Long
9 76-016-I	80 mm Cone Style 8 mm Sprue Base (2ea)
10 21.890-1	Adjustable Sprue Base Holder
11 76-047-I	80 x 80 mm Stainless Steel Flask (2ea)
12 76-0855	Non-Asbestos Paper Roll - 2.5" x 1/16" x 75'
13 76-0881-4RND	20 Pack-Non-Asbestos Paper Bases - 4" OD x 0.75" ID
14 76-109	Graduated 3 Liter Measuring Pitcher
15 79-109-250ML	250ML Graduated Cylinder
16 Z14-301-40	Ransom & Randolph Ultra-Vest Investment - 40lb Bliss Box
17 80-137-1CAR	J-Break Platinum Investment Remover - 1 Gallon
18 Z14-305-606C	J-Formula "606" Platinum Investment With Blue Binder - 50 lbs Kit
19 74-048-S	Wax Sprue Rods 6" x 3/8" Stiff (45 rods / lbs)



Flexible Shaft Tools



Flex Shaft Machines With Foot Pedals

Foredom's most popular 1/4 HP universal flexible shaft motor bundled with an SCT or FCT foot pedal. Capable of forward and reverse rotation with speeds up to 18,000 RPM. The SR combines the most important features our customers expect—power, reversibility, reliability, and versatility— all into one motor. Both foot pedals offer the user the smooth control they need with a non-skid material along the bottom to prevent slippage. The SCT foot pedal is made of a heavy, more durable material than it's FCT counterpart. Made in USA. 220V Available.

	Description	Item #	Each
A1.	SR Flex Shaft Machine With FCT Foot Control & Reverse - 110V	71-101-1	\$288.31
A2.	SR Flex Shaft Machine With SCT Foot Control & Reverse - 110V	71-101	\$323.85



SR Motor with H.20 Quick-Change Handpiece

(43 piece kit) Flex Shaft System

Our prepackaged tool kits take the guess work out of product selection. Offering the best value and featuring smart tool combinations for specific applications. They contain just about everything you need to get to work- motor, speed control, handpiece and accessories. This pictured kit features an SR Series motor, an FCT foot pedal, a H.20 handpiece, flexible shaft grease, and a forty-three piece accessory kit. Additional kits are available with a variety of handpieces and accessory kits. 110V.

	Description	Item #	Each
B.	SR Motor With H.20 Handpiece Flex Shaft System - 110V	71-092	\$431.26



SR Motor with H.30 Handpiece (54 piece kit) Flex Shaft System

Foredom's most popular and best motor for general use. The 1/4 HP, ball bearing, hang-up style M.SR runs in forward and reverse at speeds up to 18,000 RPM. It comes equipped with a motor bale for hanging, and our standard 39" long key tip inner shafting for connecting to any of Foredom's interchangeable handpieces. 110V.

	Description	Item #	Each
C.	SR Motor With H.30 Handpiece Flex Shaft System- 110V	71-101-S	\$425.32



Micromotor Kit 1070- High Speed Rotary

For high speed applications up to 38,000 rpm including light de-burring of cast pieces, bright cutting in jewelry making and fine detailing in wood. The back of the control box has a convenient Voltage Selector switch for operating with either 115 or 230 Volt operation. The control converts AC current to DC current required for the handpiece.

Kit includes

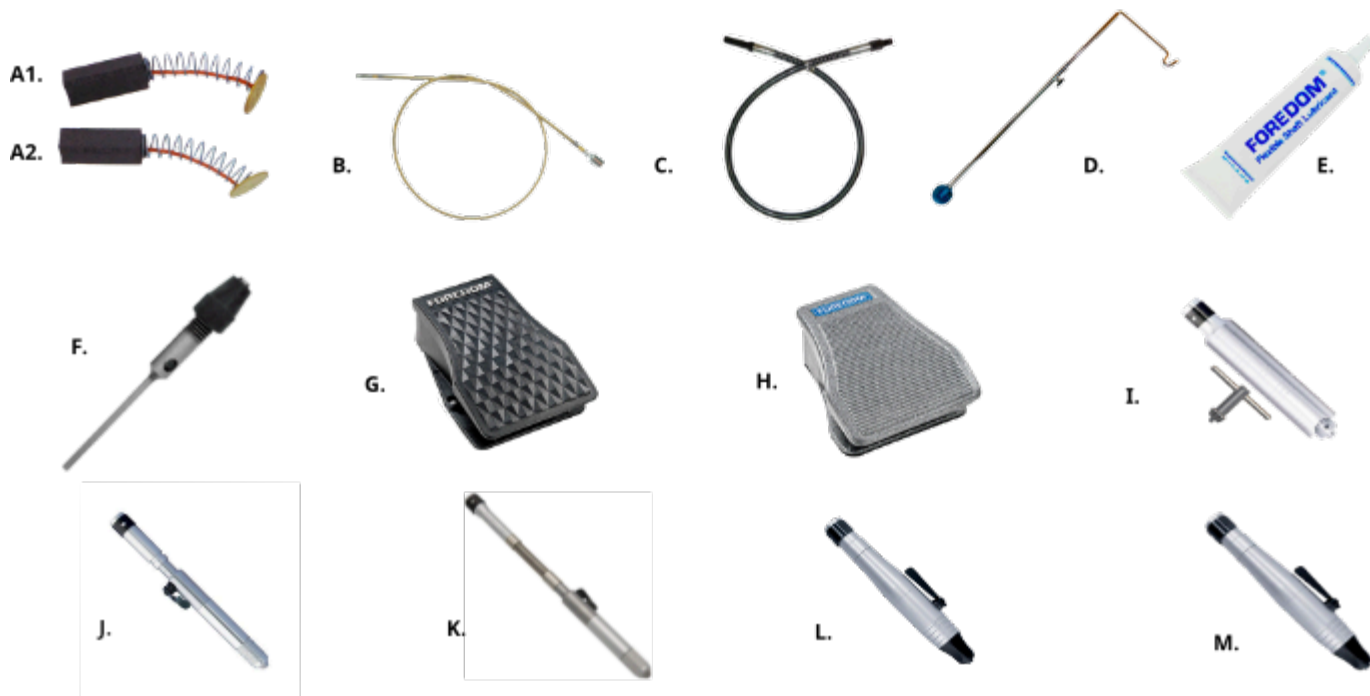
- Control box
- Hand-piece with 3/8" collet,
- Variable speed foot control
- Handpiece cradle
- Spare pair of motor brushes
- Spare fuse
- Collet changing wrenches

	Description	Item #	Each
D.	Micromotor Kit 1070 High Speed Rotary	71-630	\$477.90

Hand Pieces & Accessories

FOREDOM®
Quality & Service Since 1922

Established in 1922, Foredom Electric Co. of Bethel, CT, has maintained continuous manufacturing operations in Connecticut since 1955. Foredom is the leading manufacturer of flexible shaft rotary power tools in the world. From its flagship line of flex shaft machines, to specialized motors, hand-pieces and bench top attachments and accessories, Foredom tools set the standard in quality, power and performance.



	Description	Series/ Size	Item #	Each
A1.	Foredom Motor Brushes	CC, MM, DD	71-100-BR	\$7.70
A2.	Foredom Motor Brushes	H, SR, S, K	71-101-BR	\$12.75
B.	Inner Cable Shaft For Foredom Flex Shafts	R, CC	71-154	\$13.20
C.	Outer Cable Sheath For Foredom Flex Shafts	R, CC	71-155	\$16.95
D.	Adjustable Flex Shaft Holder	14"- 26" Height	71-150-ADJ	\$28.30
E.	Foredom Flexible Shaft Lubricant	1 oz	71-183	\$5.40
F.	Adapter Drill Chucks	2.35mm / Shank: 3/32"	89-491	\$10.60
G.	Foredom Plastic Housing Foot Pedal - 110V	FCT	71-153	\$44.55
H.	Foredom Style Handpiece ImportCast Aluminum Foot Pedal - 110V	#30 HP	71-155	\$59.95
I.	Foredom Style Handpiece - Import	#30 HP	71-115	\$78.10
J.	Faro Springless Quick Release Handpiece	2.35mm / Shank: 3/32"	71-122	\$198.70
K.	Foredom H.10D Handpiece with Duplex Spring Quick Change Lever	2.35mm / Shank: 3/32"	71-121-FORD	\$335.00
L.	Romanoff Quick Release H.20X Import Handpiece with Lever - Import	2.35mm / Shank: 3/32"	71-124	\$79.00
M.	Foredom Quick H.20 Lever Action Handpiece- USA	2.35mm / Shank: 3/32"	71-122-F	\$122.75



Busch Burs

Priced per 6 pack



Hart 90° #156C

Material: Tungsten Vanadium Steel

Head Shape: 90° Hart

Length: 1 3/4" (44.5mm) **Shank:** 3/32" (2.38 mm)

Size	Item #	Dia. (mm)	Each (1-3)	Each (4-7)	Each (8+)
007	90-156C-007	0.70mm	\$19.12	\$18.36	\$17.97
008	90-156C-008	0.80mm	\$19.12	\$18.36	\$17.97
009	90-156C-009	0.90mm	\$16.01	\$15.69	\$15.37
010	90-156C-010	1.00mm	\$16.01	\$15.69	\$15.37
012	90-156C-012	1.20mm	\$16.01	\$15.69	\$15.37
014	90-156C-014	1.40mm	\$17.04	\$16.20	\$15.60
015	90-156C-015	1.50mm	\$17.04	\$16.20	\$15.60
016	90-156C-016	1.60mm	\$16.01	\$15.69	\$15.37
018	90-156C-018	1.80mm	\$16.01	\$15.69	\$15.37
020	90-156C-020	2.00mm	\$16.01	\$15.69	\$15.37
021	90-156C-021	2.10mm	\$16.01	\$15.69	\$15.37
022	90-156C-022	2.20mm	\$16.01	\$15.37	\$15.05
023	90-156C-023	2.30mm	\$16.01	\$15.37	\$15.05
024	90-156C-024	2.40mm	\$23.83	\$22.88	\$22.40
025	90-156C-025	2.50mm	\$23.83	\$22.88	\$22.40
026	90-156C-026	2.60mm	\$23.83	\$22.88	\$22.40
027	90-156C-027	2.70mm	\$23.83	\$22.88	\$22.40
029	90-156C-029	2.90mm	\$23.83	\$22.88	\$22.40
031	90-156C-031	3.10mm	\$28.46	\$27.32	\$26.75
033	90-156C-033	3.30mm	\$28.46	\$27.32	\$26.75
035	90-156C-035	3.50mm	\$28.46	\$27.32	\$26.75
037	90-156C-037	3.70mm	\$28.46	\$27.32	\$26.75
040	90-156C-040	4.00mm	\$35.31	\$33.90	\$33.19
042	90-156C-042	4.20mm	\$35.31	\$33.90	\$33.19
045	90-156C-045	4.50mm	\$35.31	\$33.90	\$33.19
047	90-156C-047	4.70mm	\$35.31	\$33.90	\$33.19
050	90-156C-050	5.00mm	\$35.31	\$33.90	\$33.19



Hart 70° #446

Material: Tungsten Vanadium Steel

Head Shape: 70° Hart

Length: 1 3/4" (44.5mm) **Shank:** 3/32" (2.38 mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6-11)	Each (12+)
010	90-446-010	1.00mm	\$15.89	\$15.10	\$14.78
011	90-446-011	1.10mm	\$15.89	\$15.10	\$14.78
012	90-446-012	1.20mm	\$15.89	\$15.10	\$14.78
014	90-446-014	1.40mm	\$15.89	\$15.10	\$14.78
016	90-446-016	1.60mm	\$15.90	\$15.10	\$14.78
018	90-446-018	1.80mm	\$15.89	\$15.10	\$14.78
021	90-446-021	2.10mm	\$15.89	\$15.10	\$14.78
023	90-446-023	2.30mm	\$16.01	\$15.89	\$15.60
025	90-446-025	2.50mm	\$23.61	\$22.43	\$21.96
027	90-446-027	2.70mm	\$23.61	\$22.43	\$21.96
029	90-446-029	2.90mm	\$23.61	\$22.43	\$21.96
031	90-446-031	3.10mm	\$28.46	\$27.16	\$26.80
035	90-446-035	3.50mm	\$28.46	\$27.16	\$26.80
040	90-446-040	4.00mm	\$28.46	\$27.16	\$26.80
042	90-446-042	4.20mm	\$28.46	\$27.16	\$26.80
045	90-446-045	4.50mm	\$28.46	\$27.16	\$26.80
047	90-446-047	4.70mm	\$28.46	\$27.16	\$26.80



Cylinder Square Cross Cut #021

Material: Tungsten Vanadium Steel

Head Shape: Cylinder Square

Head Size: 1.20mm

Length: 1 3/4" (44.5 mm) **Shank:** 3/32" (2.38 mm)

Size	Item #	Dia. (mm)	Qty (1-5)	Qty (6-11)	Qty (12+)
007	90-021-007	0.70mm	\$8.40	\$7.98	\$7.81
008	90-021-008	0.80mm	\$8.40	\$7.98	\$7.81
009	90-021-009	0.90mm	\$8.45	\$8.03	\$7.86
010	90-021-010	1.00mm	\$8.45	\$8.03	\$7.86
012	90-021-012	1.20mm	\$8.45	\$8.03	\$7.86
014	90-021-014	1.40mm	\$8.45	\$8.03	\$7.86
015	90-021-015	1.50mm	\$8.45	\$8.03	\$7.86
016	90-021-016	1.60mm	\$8.45	\$8.03	\$7.86
018	90-021-018	1.80mm	\$8.45	\$8.03	\$7.86
021	90-021-021	2.10mm	\$8.45	\$8.03	\$7.86
023	90-021-023	2.30mm	\$8.45	\$8.03	\$7.86
025	90-021-025	2.50mm	\$17.75	\$16.86	\$16.51
031	90-021-031	3.10mm	\$19.75	\$18.64	\$17.50



Cone Square Cross Cut #023

Material: Tungsten Vanadium Steel

Head Shape: Cylinder Square

Head Size: 0.60 mm

Length: 1 3/4" (44.5 mm) **Shank:** 3/32" (2.38 mm)

Size	Item #	Dia. (mm)	Qty (1-5)	Qty (6-11)	Qty (12+)
007	90-023-007	0.70 mm	\$8.28	\$7.86	\$7.50
008	90-023-008	0.80 mm	\$8.28	\$7.86	\$7.50
009	90-023-009	0.90 mm	\$8.28	\$7.86	\$7.50
010	90-023-010	1.00 mm	\$8.28	\$7.86	\$7.50
012	90-023-012	1.20 mm	\$8.28	\$7.86	\$7.50
014	90-023-014	1.40 mm	\$8.28	\$7.86	\$7.50
016	90-023-016	1.60 mm	\$8.28	\$7.86	\$7.50
018	90-023-018	1.80 mm	\$8.28	\$7.86	\$7.50
021	90-023-021	2.10 mm	\$8.40	\$7.96	\$6.99
023	90-023-023	2.30 mm	\$8.40	\$7.96	\$6.99
025	90-023-025	2.50 mm	\$16.92	\$16.14	\$15.36
027	90-023-027	2.70 mm	\$17.46	\$17.04	\$16.98

Busch Burs

Priced per 6 pack



Krause #256

Material: Tungsten Vanadium Steel

Head Shape: Krause

Length: 1-3/4" (44.5mm)

Shank: 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Qty (1-5)	Qty (6+)
010	90-256-010	1.0 mm	\$17.22	\$16.70
012	90-256-012	1.2 mm	\$17.22	\$16.70



Swiss Krause #256M

Material: Tungsten Vanadium Steel

Head Shape: Krause

Length: 1-3/4" (44.5mm)

Shank: 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Each (1-2)	Each (3+)
010	90-256-010M	1.0 mm	\$11.22	\$10.72
012	90-256-012M	1.2 mm	\$10.08	\$9.48



Special Inlay #100A

Material: Tungsten Vanadium Steel

Head Shape: Special Inlay

Length: 1 3/4" (44.5 mm)

Shank: 3/32" (2.38 mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6+)
008	90-100A-008	0.80 mm	\$24.96	\$23.72
009	90-100A-009	0.90 mm	\$24.96	\$23.72



Reamer #115A

Material: Tungsten Vanadium Steel

Head Shape: Reamer

Length: 1 3/4" (44.5mm) **Shank:** 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Each (1-2)	Each (3+)
18	90-115A-018	1.8 mm	\$36.06	\$34.60
23	90-115A-023	2.3 mm	\$42.30	\$39.60



Bud

Material: Tungsten Vanadium Steel

Head Shape: Pointed Cone

Length: 1 3/4" (44.5mm)

Shank: 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6-11)	Each (12+)
008	90-150-008	0.80 mm	\$9.60	\$9.12	\$8.67
010	90-150-010	1.00 mm	\$9.60	\$9.12	\$8.67
014	90-150-014	1.40 mm	\$9.60	\$9.12	\$8.67
018	90-005-018	1.80 mm	\$9.60	\$9.12	\$8.67
023	90-005-023	2.30 mm	\$9.60	\$9.12	\$8.67



Bud Single Cut #006

Material: Tungsten Vanadium Steel

Head Shape: Bud

Length: 1 3/4" (44.5mm)

Shank: 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Qty (1-5)	Qty (6-11)	Qty (12+)
006	90-006-006	0.60 mm	\$6.75	\$6.41	\$6.28
007	90-006-007	0.70 mm	\$6.75	\$6.41	\$6.28
008	90-006-008	0.80 mm	\$6.75	\$6.41	\$6.28
009	90-006-009	0.90 mm	\$6.75	\$6.41	\$6.28
010	90-006-010	1.00 mm	\$6.75	\$6.41	\$6.28
012	90-006-012	1.20 mm	\$6.75	\$6.41	\$6.28
014	90-006-014	1.40 mm	\$6.75	\$6.41	\$6.28
015	90-006-015	1.50 mm	\$6.75	\$6.41	\$6.28
016	90-006-016	1.60 mm	\$6.75	\$6.41	\$6.28
018	90-006-018	1.80 mm	\$6.75	\$6.41	\$6.28
021	90-006-021	2.10 mm	\$6.75	\$6.41	\$6.28
023	90-006-023	2.30 mm	\$6.75	\$6.41	\$6.28
025	90-006-025	2.50 mm	\$14.26	\$13.55	\$13.26
027	90-006-027	2.70 mm	\$14.26	\$13.55	\$13.26
029	90-006-029	2.90 mm	\$14.26	\$13.55	\$13.26
031	90-006-031	3.10 mm	\$19.91	\$18.92	\$17.97
033	90-006-033	3.30 mm	\$19.91	\$18.92	\$17.97
035	90-006-035	3.50 mm	\$19.91	\$18.92	\$17.97
037	90-006-037	3.70 mm	\$19.91	\$18.92	\$17.97
040	90-006-040	4.00 mm	\$25.16	\$23.91	\$22.71
045	90-006-045	4.50 mm	\$25.16	\$23.91	\$22.71



Pointed Cone Single Cut

Material: Tungsten Vanadium Steel

Head Shape: Pointed Cone

Length: 1-3/4" (44.5mm)

Shank: 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6-11)	Each (12+)
012	90-005-012	1.20mm	\$7.15	\$6.80	\$6.46
016	90-005-016	1.60mm	\$7.15	\$6.80	\$6.46
018	90-005-018	1.80mm	\$7.15	\$6.80	\$6.46
021	90-005-021	2.10mm	\$7.15	\$6.80	\$6.46



Busch Burs

Price per 6 pack



Wax Burs

Material: Tungsten Vanadium Steel

Head Shape: Circle

Length: 1 3/4" (44.5 mm)

Shank: 3/32" (2.38 mm)

Size	Item #	Diameter (MM)	Each
018	90-260A-018	1.8mm	\$24.18
023	90-260A-023	2.3mm	\$24.18



Busch Twin Cut 411T Burs

Material: Tungsten Vanadium Steel

Head Shape: Cup

Length: 1 3/4" (44.5 mm)

Shank: 3/32" (2.38 mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6+)
008	90-411T-008	0.80mm	\$18.96	\$17.76
009	90-411T-009	0.90mm	\$18.96	\$17.76
010	90-411T-010	1.00mm	\$18.96	\$17.76
012	90-411T-012	1.20mm	\$18.96	\$17.76
014	90-411T-014	1.40mm	\$18.96	\$17.76
015	90-411T-015	1.50mm	\$18.96	\$17.76
016	90-411T-016	1.60mm	\$18.96	\$17.76
018	90-411T-018	1.80mm	\$18.96	\$17.76
020	90-411T-020	2.00mm	\$18.96	\$17.76



Carbide Round

Material: Carbide Steel

Head Shape: Round Single Cut

Length: 1 3/4" (44.5 mm)

Shank: 3/32" (2.38 mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6-11)	Each (12+)
004	90-001-004-C	0.40mm	\$34.80	\$33.06	\$31.41
005	90-001-005-C	0.50mm	\$22.86	\$21.72	\$20.64
006	90-001-006-C	0.60mm	\$19.50	\$18.50	\$17.50
007	90-001-007-C	0.70mm	\$19.50	\$18.50	\$17.50
008	90-001-008-C	0.80mm	\$19.50	\$18.50	\$17.50
009	90-001-009-C	0.90mm	\$19.50	\$18.50	\$17.50
010	90-001-010-C	1.00mm	\$19.50	\$18.50	\$17.50
012	90-001-012-C	1.20mm	\$19.50	\$18.50	\$17.50
014	90-001-014-C	1.40mm	\$19.50	\$18.50	\$17.50
016	90-001-016-C	1.60mm	\$19.50	\$18.50	\$17.50
018	90-001-018-C	1.80mm	\$19.50	\$18.50	\$17.50
021	90-001-021-C	2.10mm	\$19.50	\$18.50	\$17.50
023	90-001-023-C	2.30mm	\$19.50	\$18.50	\$17.50



Wheels Single Cut Bur #002

Material: High-Performance Steel

Head Shape: Wheels

Length: 1 3/4" (44.5 mm)

Shank: 3/32" (2.38mm)

Size	Item #	Diameter (MM)	Each (1-5)	Each (6-11)	Each (12+)
006	90-002-006	0.60mm	\$5.58	\$5.22	\$4.80
007	90-002-007	0.70mm	\$5.58	\$5.22	\$4.80
008	90-002-008	0.80mm	\$5.58	\$5.22	\$4.80
009	90-002-009	0.90mm	\$5.58	\$5.22	\$4.80
010	90-002-010	1.00mm	\$5.58	\$5.22	\$4.80
012	90-002-012	1.20mm	\$5.58	\$5.22	\$4.80
014	90-002-014	1.40mm	\$5.58	\$5.22	\$4.80
016	90-002-016	1.60mm	\$5.58	\$5.22	\$4.80
018	90-002-018	1.80mm	\$5.58	\$5.22	\$4.80
021	90-002-021	2.10mm	\$5.58	\$5.22	\$4.80
023	90-002-023	2.30mm	\$5.58	\$5.22	\$4.80
027	90-002-027	2.70mm	\$11.70	\$10.98	\$10.08
029	90-002-029	2.900mm	\$11.70	\$10.98	\$10.08

Busch Burs

Price per 6 pack



A. Round Coarse Bur #001

Material: Tungsten Vanadium Steel

Head Shape: Round Coarse

Length: 1 3/4" (44.5 mm)

Shank: 3/32" (2.38 mm)



B. Cup Bur #077B

Material: Tungsten Vanadium Steel

Head Shape: Cup

Length: 1 3/4" (44.5 mm)

Shank: 3/32" (2.38 mm)

Size	Item #	Dia (mm)	Each (1-5)	Each (6-11)	Each (12+)
003	90-001-003	0.30mm	\$19.58	\$18.86	\$17.92
0035	90-001-0035	0.35mm	\$17.58	\$16.74	\$15.90
004	90-001-004	0.40mm	\$10.13	\$9.63	\$9.15
005	90-001-005	0.50mm	\$7.16	\$6.81	\$6.47
006	90-001-006	0.60mm	\$7.16	\$6.81	\$6.47
007	90-001-007	0.70mm	\$7.16	\$6.81	\$6.47
008	90-001-008	0.80mm	\$7.16	\$6.81	\$6.47
009	90-001-009	0.90mm	\$7.16	\$6.81	\$6.47
010	90-001-010	1.00mm	\$7.16	\$6.81	\$6.47
012	90-001-012	1.20mm	\$7.16	\$6.81	\$6.47
013	90-001-013	1.30mm	\$7.16	\$6.81	\$6.47
014	90-001-014	1.40mm	\$7.16	\$6.81	\$6.47
015	90-001-015	1.50mm	\$7.16	\$6.81	\$6.47
016	90-001-016	1.60mm	\$7.16	\$6.81	\$6.47
018	90-001-018	1.80mm	\$7.16	\$6.81	\$6.47
020	90-001-020	2.00mm	\$7.16	\$6.81	\$6.47
021	90-001-021	2.10mm	\$7.16	\$6.81	\$6.47
022	90-001-022	2.20mm	\$7.16	\$6.81	\$6.47
023	90-001-023	2.30mm	\$7.16	\$6.81	\$6.47
024	90-001-024	2.40mm	\$12.40	\$11.78	\$11.20
025	90-001-025	2.50mm	\$12.40	\$11.78	\$11.20
026	90-001-026	2.60mm	\$12.40	\$11.78	\$11.20
027	90-001-027	2.70mm	\$12.40	\$11.78	\$11.20
029	90-001-029	2.90mm	\$12.40	\$11.78	\$11.20
031	90-001-031	3.10mm	\$17.95	\$16.38	\$15.60
033	90-001-033	3.30mm	\$17.95	\$17.10	\$16.25
035	90-001-035	3.50mm	\$17.95	\$17.10	\$16.25
037	90-001-037	3.70mm	\$17.95	\$17.10	\$16.25
040	90-001-040	4.00mm	\$22.73	\$21.60	\$20.52
042	90-001-042	4.20mm	\$22.73	\$21.60	\$20.52
045	90-001-045	4.50mm	\$22.73	\$21.60	\$20.52
047	90-001-047	4.70mm	\$22.73	\$21.60	\$20.52
050	90-001-050	5.00mm	\$22.73	\$21.60	\$20.52
060	90-001-060	6.00mm	\$36.96	\$35.22	\$33.54
070	90-001-070	7.00mm	\$36.96	\$35.22	\$33.54
075	90-001-075	7.50mm	\$45.96	\$43.80	\$41.70
080	90-001-080	8.00mm	\$45.96	\$43.80	\$41.70
085	90-001-085	8.50mm	\$45.96	\$43.80	\$41.70

Size	Item #	Dia (mm)	Each (1-5)	Each (6-11)	Each (12+)
009	90-077B-009	0.90mm	\$17.04	\$16.02	\$14.70
010	90-077B-010	1.00mm	\$17.04	\$16.02	\$14.70
012	90-077B-012	1.20mm	\$17.04	\$16.02	\$14.70
014	90-077B-014	1.40mm	\$17.04	\$16.02	\$14.70
015	90-077B-015	1.50mm	\$17.04	\$16.02	\$14.70
016	90-077B-016	1.60mm	\$17.04	\$16.02	\$14.70
018	90-077B-018	1.80mm	\$17.04	\$16.02	\$14.70
021	90-077B-021	2.10mm	\$17.04	\$16.02	\$14.70
023	90-077B-023	2.30mm	\$17.04	\$16.02	\$14.70
025	90-077B-025	2.50mm	\$28.98	\$27.18	\$24.96
027	90-077B-027	2.70mm	\$28.98	\$27.18	\$24.96
029	90-077B-029	2.90mm	\$28.98	\$27.18	\$24.96
031	90-077B-031	3.10mm	\$38.34	\$35.88	\$32.94
035	90-077B-035	3.50mm	\$38.34	\$35.88	\$32.94
045	90-077B-045	4.50mm	\$45.38	\$43.12	\$40.96
050	90-077B-050	5.00mm	\$45.38	\$43.12	\$40.96



C. Cylinder Square Single Cut #015

Material: Tungsten Vanadium Steel

Head Shape: Cylinder Square

Length: 1-3/4" (44.5mm)

Shank: 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6-11)	Each (12+)
007	90-015-007	0.70mm	\$8.45	\$7.99	\$7.56
008	90-015-008	0.80mm	\$8.45	\$7.99	\$7.56
009	90-015-009	0.90mm	\$8.45	\$7.99	\$7.56
010	90-015-010	1.00mm	\$8.45	\$7.99	\$7.56
012	90-015-012	1.20mm	\$8.45	\$7.99	\$7.56
014	90-015-014	1.40mm	\$8.45	\$7.99	\$7.56
015	90-015-015	1.50mm	\$8.45	\$7.99	\$7.56
016	90-015-016	1.60mm	\$8.45	\$7.99	\$7.56
018	90-015-018	1.80mm	\$8.45	\$7.99	\$7.56
021	90-015-021	2.10mm	\$8.45	\$7.99	\$7.56
023	90-015-023	2.30mm	\$8.45	\$7.99	\$7.56



Busch Burs

Price per 6 pack



Riviter #452

Material: Tungsten Vanadium Steel **Head Shape:** Special Inlay **Head Size:** 8.00 mm **Length:** 1 3/4" (44.5 mm)
Shank: 3/32" (2.38 mm) *Priced individually

Size	Item #	Dia. (mm)	Each (1-2)	Each (3+)
080	90-452-080	8.00 mm	\$86.95	\$82.61



Cone Square Single Cut #017

Material: Tungsten Vanadium Steel
Head Shape: Cone Square
Length: 1 3/4" (44.5 mm)
Shank: 3/32" (2.38 mm)

Size	Item #	Dia (mm)	Each (1-5)	Each (6-11)	Each (12+)
007	90-017-007	0.70mm	\$8.45	\$7.99	\$7.60
008	90-017-008	0.80mm	\$8.45	\$7.99	\$7.60
009	90-017-009	0.90mm	\$8.45	\$7.99	\$7.60
010	90-017-010	1.00mm	\$8.45	\$7.99	\$7.60
012	90-017-012	1.20mm	\$8.45	\$7.99	\$7.60
014	90-017-014	1.40mm	\$8.45	\$7.99	\$7.60
016	90-017-016	1.60mm	\$8.45	\$7.99	\$7.60
018	90-017-018	1.80mm	\$8.45	\$7.99	\$7.60



Inverted Cone Single Cut Bur #003

Material: Tungsten Vanadium Steel
Head Shape: Inverted Cone
Length: 1-3/4" (44.5mm)
Shank: 3/32" (2.38mm)

Size	Item #	Dia. (mm)	Each (1-5)	Each (6-11)	Each (12+)
006	90-003-006	0.60mm	\$7.10	\$6.75	\$6.42
007	90-003-007	0.70mm	\$7.10	\$6.75	\$6.42
008	90-003-008	0.80mm	\$7.10	\$6.75	\$6.42
009	90-003-009	0.90mm	\$7.10	\$6.75	\$6.42
010	90-003-010	1.00mm	\$7.10	\$6.75	\$6.42
012	90-003-012	1.20mm	\$7.10	\$6.75	\$6.42
014	90-003-014	1.40mm	\$7.10	\$6.75	\$6.42
015	90-003-015	1.50mm	\$7.10	\$6.75	\$6.42
016	90-003-016	1.60mm	\$7.10	\$6.75	\$6.42
018	90-003-018	1.80mm	\$7.10	\$6.75	\$6.42
021	90-003-021	2.10mm	\$7.10	\$6.75	\$6.42
023	90-003-023	2.30mm	\$7.10	\$6.75	\$6.42

Dormer Twist Drills 90-230

These high speed twist drills are precision ground to an exacting standard. Excellent for all metals. Each red tube contains 10 drills. Sold per pack

Made in The United Kingdom



Dia. (mm)	Item #	Each (1-4)	Each (5-10)
.34	90-230-80	\$11.15	\$10.60
.37	90-230-79	\$7.95	\$7.56
.41	90-230-78	\$7.95	\$7.56
.46	90-230-77	\$7.95	\$7.56
.51	90-230-76	\$7.95	\$7.56
.53	90-230-75	\$7.95	\$7.56
.57	90-230-74	\$7.95	\$7.56
.61	90-230-73	\$7.95	\$7.56
.64	90-230-72	\$7.95	\$7.56
.66	90-230-71	\$7.95	\$7.56
.71	90-230-70	\$7.95	\$7.56
.74	90-230-69	\$7.95	\$7.56
.79	90-230-68	\$7.95	\$7.56

Dia. (mm)	Item #	Each (1-4)	Each (5-10)
.84	90-230-66	\$7.95	\$7.56
.89	90-230-65	\$7.95	\$7.56
.91	90-230-64	\$7.95	\$7.56
.94	90-230-63	\$7.95	\$7.56
.97	90-230-62	\$7.95	\$7.56
.99	90-230-61	\$7.95	\$7.56
1.00	90-230-60	\$7.95	\$7.56
1.04	90-230-59	\$7.95	\$7.56
1.06	90-230-58	\$7.95	\$7.56
1.09	90-230-57	\$7.95	\$7.56
1.18	90-230-56	\$7.95	\$7.56
1.40	90-230-55	\$7.95	\$7.56

Busch Twist Drills #077

Standard 3/32" (2.38 mm) diameter shank and are approximately 1 3/4" (44.5 mm) in length. Sold per pack of six.



Dia. (mm)	Item #	Each (1 - 4)	Each (5-10)
0.50	90-077-005	\$13.49	\$12.78
0.60	90-077-006	\$13.49	\$12.78
0.70	90-077-007	\$13.49	\$12.78
0.80	90-077-008	\$13.49	\$12.78
0.90	90-077-009	\$13.49	\$12.78
1.00	90-077-010	\$13.49	\$12.78
1.10	90-077-011	\$13.49	\$12.78
1.20	90-077-012	\$13.49	\$12.78
1.40	90-077-014	\$13.49	\$12.78
1.50	90-077-015	\$13.49	\$12.78
1.60	90-077-016	\$13.49	\$12.78
1.70	90-077-017	\$13.49	\$12.78
1.80	90-077-018	\$13.49	\$12.78
1.90	90-077-019	\$13.49	\$12.78

Pro-Cut Bur & Blade Lubricant

Extends the life of burs, saw blades, drills, etc. Simple to use, occasionally run your bur, blade or drill into Pro-Cut lubricant.

Style: Push-up Stick **Weight:** 1oz



Description	Item #	Each
A. Bur & Blade Lubricant	90-599	\$10.45

Ferris Ultra Lube Bur & Blade Lubricant

Extends the life of burs, saw-blades, drills, and more. Simple to use, occasionally run your bur, blade or drill into Ferris Ultra Lubricant. **Style:** Push-up Stick **Weight:** 2oz



Description	Item #	Each
B. Ultra Wax Bur & Blade Lubricant	90-600	\$9.70

NEW!



Letters as small as
.25 mm in size!

RE-6000

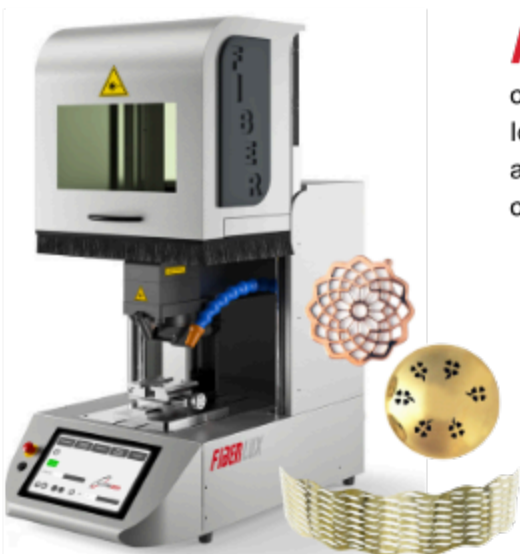
TAUMARK NIB The TAUMARK NIB's new laser source is capable of generating ultra-short pico-second pulses, ensuring definition and quality on every laser marking and engraving that are smooth to the touch. Comes standard with an **integrated vision system** for centering your markings and engravings on its backlit platform. Its **5 Megapixel** camera has a viewing area of **70×50 mm** with a **live view of the work area** from within the engraver software. Comes standard with a 160 focal lens.

Production Level	Medium to high
Engravable surfaces	flat surfaces, rings, bracelets, medallions, watch faces, eyewear, etc.
Applications	Photographs, names, designs and logos
Axis	Manual Z-Axis Regulation
Camera & Auto-Scan Feature	Optional
Marking & Cutting	Yes
Output Power	20 W



FIBERLUX EL The ideal solution for everyone. FiberLux EL incorporates all the advanced features of the FiberLUX, including the closing chamber, motorized Z-axis and the capability to install the drag-clamp system for multiple cutting jobs can be supplied with a broad spectrum of powers.

Production Level	Medium
Engrave On	Rings, bracelets, medallions, flat surfaces, watch faces, eyewear, etc.
Applications	Photographs, names, designs and logos
Axis	Motorized Z-Axis
Camera	Optional
Drag Clamp Control	Yes
Marking & Cutting	Yes
Output Power	30W & 50W Available



FIBERLUX PRO Made for the laser for cutting and marking professional. Equipped with ytterbium-doped fiber-optics that requires minimal maintenance up to 50,000 hours of operation. Ideal for engraving photographs, logos, trademarks and texts. Includes advanced SCAPS software. The **3D Marking Upgrade** allows for marking on convex, uneven curved surfaces up to 35 mm!

Production Level	Medium to continuous
Engravable surfaces	Rings, bracelets, medallions, flat surfaces, watch faces, eyewear, etc.
Applications	Photographs, names, designs and logos
Axis	Motorized Z-Axis
Layer Deep Relief	Yes
Camera	Optional
3D Marking Upgrade	Available
Drag Clamp Control	Yes
Software	SCAPS (Scanner Application Software)
Stand	Optional
Marking & Cutting	Yes
Output Power	30W, 50W, 70W & 100W Available

Laser Engravers



FIBERLUX NANO The ideal cutting and engraving solution for small to medium sized operations looking to complete highly detailed engravings and cuttings of objects on any metal.

In addition to the engraving and cutting of logos, brands, photo-engraving, texts, and graphic designs, FiberLux NANO has an optional high-precision rotary axis system, allowing the operator to engrave the inside and outside of rings with a maximum marking area of 160x160 mm and with resolutions up to 20 µm.



Production Level	Light to medium
Engravable surfaces	flat surfaces, rings, bracelets, medallions, watch faces, eyewear, etc.
Applications	Photographs, names, designs and logos
Axis	Manual Z-Axis Regulation
Camera	Yes (Optional)
Marking & Cutting	Yes
Output Power	30W

CUTTING SPEED TIME CHART

*APPROXIMATE TIMES

Machine	Power	15mm Circle (OD)		Name Plate (50mm x 10mm)	
Plate Thickness (Gold)		0.5mm	1mm	0.5mm	1mm
NANO	30W	37sec	140sec	215 sec	1021 sec
FiberLux EL	50W	20 sec	40 sec	150 sec	331 sec
FiberLux Pro	50W	18 sec	54 sec	153 sec	324 sec
FiberLux Pro	70W	12 sec	35 sec	102 sec	235 sec
FiberLux Pro	100W	5 sec	15 sec	50 sec	145 sec

MARK, CUT, AND ENGRAVE



Romanoff



Imprint your most valuable memories on the metal of your choice.

Engrave **text, logos, nameplates, photos**, and more on a variety of metals, even on curves surfaces using the R-Axis Rotation System!

SPECIFICATIONS	FiberLux Pro		FiberLux EL	FiberLux 3D		FiberLux NANO
SKU	RE-4070	RE-4100	RE-1050	RE-5070	RE-50100	RE-3000
OUTPUT POWER	70W	100W	50W	70W	100W	30W
ENGRAVER SOFTWARE	SCAPS		Standard Software	SCAPS		Standard Software
ABSORBED POWER	600W	650W	350W	600W	650W	350W
CHAMBER WORKING AREA	450 x 750 x 670 mm		250 X 250 X 350 mm	230 x 380 x 350 mm		250 x 250 x 310 mm
FOCAL 100 WORKING AREA	60 x 60 mm / 16 um			60 x 60 mm / 11 um		60 x 60 mm / 16 um
FOCAL 160 WORKING AREA	110 x 110mm / 26um					100 x 100 mm / 26um
FOCAL 210 WORKING AREA	160 x 160 mm					---
GALVO HEAD SPEED	7000mm/s		5000mm/s	7000mm/s	6000mm/s	5000ms
MAX PULSE & ENERGY WAVELENGTH	1MJ & 1064 nm					
MAX FREQUENCY	1000kHz		60kHz	100kHz	60 KHz	

MS 3.5



MS 165



MEGA 6.0



MEGA 6.0 3D



MEGAHIT 300



APPLICATIONS

- Excellent for silversmiths
- Welding precious metals like platinum, titanium, gold, silver, and palladium
- Repair of antique jewelry
- Repair settings without stone removal
- Repair of watches and eyewear
- Weld elements using filler material without additional cleaning

STANDARD FEATURES

- 7" Color touch screen display
- Preloaded tutorials
- Leica 10x stereomicroscope
- Powerful integrated cooling system
- Internal joystick
- Large welding chamber
- Wi-Fi connection
- White LED light illumination
- Integrated video-cam



SPECIFICATIONS

- Pulse Frequency: 0.5 to 30 Hz
- Spot Setting: 30 motorized positions
- Wave Programs: 6 Pulse Shaping presets
- Cell-Stored Memory Slots: 100
- Internal Chamber Control: Joystick
- External Control: 7" Color Touch Screen
- Input Power: 110V (230V optional)
- Amps: 10 A

3D STEREOSCOPIC VISION SYSTEM



For a 3D in-depth view of your welding space. Reduces eye fatigue and improves posture!

WIDE WELDING CHAMBER



LARGE VIEWING WINDOW



10X LEICA STEREO MICROSCOPE



7" TOUCH SCREEN DISPLAY



SPECIFICATIONS	MS 3.5	MASTER 165	MEGA 6.0	MEGA 300
SKU	LZ-1035	LZ-10135	LZ-6015	LZ-9500
MAX ENERGY	80J	165J	245J	0.1 to 300J
LEICA LENSES	X	✓	✓	✓
3D VISION SYSTEM	X	X	✓	X
IMPULSE TIME	0.1 TO 12 MS	0.1 TO 25 MS		0.1 TO 20 MS
SPOT DIAMETER	.2 TO 2.0 MM		0.1 to 2.0 mm	.2 TO 2.0 MM
COOLING SYSTEM	SINGLE		DOUBLE	
LASER SOURCE & WAVE LENGTH	1064 nm			
AVERAGE POWER	35 W	75 W		150 W
PEAK POWER	3 KW	6.5 KW	10 KW	15 kw

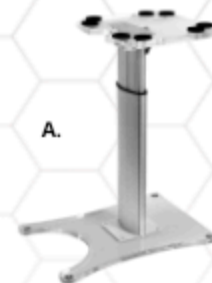
Laser Accessories



Motorized Welder Stand

This adjustable motorized stand for the ElettroLaser Welding Machines easily plugs into the back of your laser and is operated using the machine's internal controls or the external LCD touch screen. This motorized stand can be adjusted to accommodate each operators height. 110V standard, 220V optional.

Description	Item #	Each
A. MegaHit and Mega Silver	LZ-6000-STD	\$2,980.00



Engraver Stand

This stand for the ElettroLaser Engraving Machines puts the engraver at comfort height, provides mobility and offers a convenient place to rest a laptop.

Description	Item #	Each
B. Engraver Stand	RE-1000-STD	\$2,595.00



X-Y Clamp

A jig and fixture for manually holding and positioning your work for engraving.

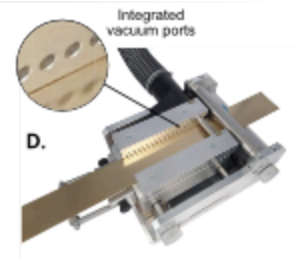
Description	Item #	Each
C. X-Y Clamp	RE-1000-5	\$915.00



Drag & Clamp Plate System

A mechanical and automatic clamping system designed for pulling flat plate into the work area for multiple cutting and engraving jobs. New design features convenient metal recovery vacuum connection.

Description	Item #	Each
D. Drag Clamp Plate System	RE-1000-11	\$5,145.00



R Axis Rotation System

Can be used on the Laser Welding machine for welding circular items together. The same R Axis Rotation System can be installed in the Laser Marking and Engraving machines for designs, logos, trademarks, and serial numbers.

Description	Item #	Each
E1. R Axis Rotation System	RE-1000-1	\$1,625.00
E2. R Axis Rotation System with Magnetic Clamp	RE-1000-10	\$3,394.00



Deluxe Vacuum with Odor and Hepa Filter

Specially designed for any production facility, operating laser engraving machines, interested in promoting a dust, odor, and fume-free environment. 110V Standard.

Description	Item #	Each
F1. Deluxe Vacuum & Hose	RE-1000-15	\$1,184.15
F2. Deluxe Vacuum Replacement Filter	RE-1000-15F	\$105.95



Dust Collectors

Romanoff Cartridge Dust Collector

Designed to produce strong suction and be placed into small spaces. These units have a round cartridge filter that can be easily removed. These units can still produce suction up to 4-6 feet away with the proper hose. Both units have a built in muffler to reduce the noise down to 59 Db.110V Standard.



A.

	CFM	Item #	HP	Stations	Amps	Inlets	Dimensions	Weight	Each
A1.	1100	87-0125	1	3-4	15	4	18" x 29" x 21"	157lbs	\$1,938.00
A2.	---	87-0125-F	Replacement Filter for 1100 CFM				---	---	\$301.00

Romanoff Bag Style Dust Collectors

Romanoff Bag Style Dust Collectors are reliable and low maintenance. They are available in 1 HP or 3 HP models. Each has a bag filtration system made of cotton sateen filters for maximum efficiency. All units have an upper silencer to minimize noise levels, built-in dust tray and manual foot pedal for filter cleaning.



B.

	CFM	HP	Person(s)	Amps	Inlets	Dimensions	Power	Item #	Each
B1.	400	½	1-2	9	2	15" x 15" x 23 ¼"	110V	87-010	\$1,216.00
B2.	---	Replacement Filter for ½ HP - 14 Bags 12 x 6 ¼"						87-010A	\$372.00
C1.	1000	1	2	15	4	22 ½" x 25" x 39"	110V	Z42-009-H	\$2,967.00
C2.	---	Replacement Filter for 1 HP - 24 Bags 19 x 9 ½"						Z42-009-H2	\$635.00
D1.	1300	3	4-6	20	6	28" x 28" x 61"	220V/ 3PH	Z42-009-R2	\$5,089.00
D2.	---	Replacement Filter for 3 HP - 30 Bags 18 ¾" x 20"						Z42-009-R1	\$947.95



C.

Donaldson Torit Vibra Shake Dust Collector

A self-cleaning collector for applications where high collection efficiency is essential, such as reclaiming precious metals.

Features

- Automatically vibrates the filter, loosening collected particles each time it's shut off, keeping the filter clean while ensuring maximum suction.
- Two-stage cartridge for high-efficiency filtration of both coarse and fine dusts.
- Compact, self-contained collector design allows placement flexibility, saving floor space.
- Recirculates filtered air, saving heating and cooling costs.
- Vibra-Shake cartridge filter features patented Pleatloc™ corrugation, assuring uniform pleat spacing for better self-cleaning and longer filter life.
- Filter screen captures coarse and fibrous particles.
- Galvanized outer filter liner protects filter media.
- Easy filter change-out for quicker maintenance.
- Submicron particulates pass through the filter screen and are trapped by the inner layer of media.



D.

	Model	Item #	CFM	HP	Power	Person(s)	Dimensions
D1.	VS-1200	Z42-012	1200	3	208, 230V/3PH	4 - 6	25" x 31" x 53"
D2.	VS-1500	Z42-013	1500	5	208, 230V/3PH	6 - 8	25" x 31" x 53"
D3.	VS-3000	Z42-014	3000	7 ½	208, 230V/3PH	10 -12	52" x 33" x 76"
E.	(Not Pictured)	Z42-009-CB	Electric Motor Starter Control Box 40A 3PH 208-230V				

Polishing Stations



A1.



A2.



A3.

Enclosed Polishing Stations

Romanoff Deluxe Double and Single Polishing Systems consist of a double or single spindle, 1/2 HP Polishing Motor with 1/2 and 1 HP dust collectors with built in silencers. These enclosed systems capture particles down to 1/3 micron with 99% efficiency. Made in USA. 110V or 220V Available.

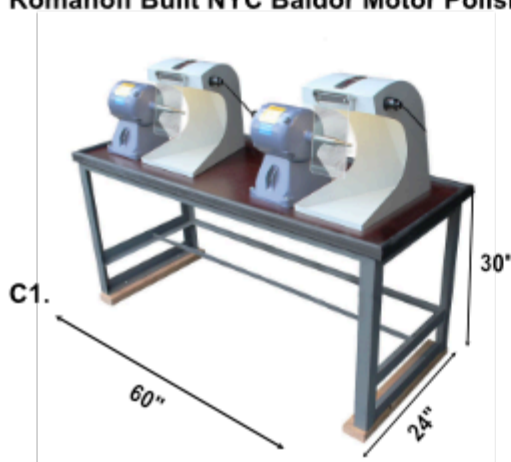
	CFM	Polishing Motor	Dust Collector	Dimensions	Item #	Price
A1.	1100	1/2 HP	1 HP	48" x 24" x 43"	87-006	\$4,307.00
A2.	400	1/2 HP	1/2 HP	48"W x 24"D x 48"H	87-025	\$2,637.00
A3.	400	3/4 HP	1/2 HP	26"W x 24"D x 48"H	87-024	\$2,369.00

Open Hood Polishing Systems

These stand-up polishing stations have 1/2 and 1 HP dust collectors with built-in silencers. These systems are available with a lapping station on the left side and a polishing station on the right side or single station. The dusty air is filtered through ultra-weave cotton sateen filters, capable of catching solid particles down to 1/3" micron.

	CFM	Polishing Motor	Vacuum HP	Dimensions	Item #	Price
B1.	1000	3/4 HP	1 HP	48"L x 24"D x 30"H	Z42-366-E	\$4,684.00
B2.	400	3/4 HP	1/2 HP	24"W x 24"D x 48"H	87-009	\$1,992.00

Romanoff Built NYC Baldor Motor Polishing Tables



C1.



C2.



B1.



B2.



D.

	Description	Item #	Voltage	HP	Each
C1.	Polish/ Polish	Z42-025-1-D	110/ 220V- 1PH	1/2	\$3,543.00
C1.	Polish/ Polish	Z42-025-1-A	220/380V- 3PH	3/4	\$3,606.00
C2.	Polish/ Split Lap (Not Baldor)	Z42-025-1-E	110/ 220V- 1PH	1/2	\$3,243.00
C2.	Polish/ Split Lap	Z42-025-1-B	220/380V- 3PH	3/4	\$3,575.00
D.	3" Dust Collector Black Hose	87-017	Heavy Duty	---	\$128.75 (per 10 ft)

Polishing Motors, Hoods, & Accessories

Baldor Ramforce Polishing Motors

Known for their quality, heavy-duty construction, power and efficiency.

These high-base polishing motors are completely sealed and permanently lubricated for smooth, dependable operation over long hours of use. Accommodates buffs from 4" to 8" in diameter. Requires a tapered and threaded $\frac{5}{8}$ " spindle. (P/n 87-107R, 87-107L)

	Description	HP	Voltage	Item #	Each
A1.	Baldor Right Hand	$\frac{1}{2}$	(110 / 220 V, 1 PH)	Z42-121	\$820.50
A2.	Baldor Right Hand	$\frac{3}{4}$	(220 / 380 V, 3 PH)	Z42-131	\$775.50
A3.	Baldor Left Hand	$\frac{3}{4}$	(220 / 380 V, 3 PH)	Z42-132	\$820.50

Right Hand $\frac{3}{4}$ Horsepower Motor

This heavy-duty, high-base polishing motor is completely sealed and permanently lubricated for smooth, dependable operation over long hours of use. It has a rubber-mounted motor base and tapered and threaded shaft. Includes a tapered spindle that accommodates buffs from 4" to 8" in diameter.

	Description	HP	Voltage	Item #	Each
B.	Romanoff Right Hand	$\frac{3}{4}$	(110 / 220V, 1PH)	Z42-121-R	\$485.00

Spindles- Polishing Motors

Arbor and flange spindle is used with rubber wheels and felt wheels with a $\frac{5}{8}$ " arbor hole. The tapered spindles are used with polishing buffs, rubber wheels and wood hub brushes.

	Description	Item #	Each
C1.	Arbor & Flange, Screw-On for $\frac{1}{2}$ " Dia. Shaft - Right Hand	87-014A	\$39.95
D1.	6" Long, Screw-On Spindle for $\frac{1}{2}$ " Dia. Shaft - Right Hand	87-107R	\$29.90
D2.	6" Long, Screw-On Spindle for $\frac{1}{2}$ " Dia. Shaft - Left Hand	87-107L	\$29.90

Adjustable Sta-Clean Polishing Hood Shield

Designed for any polishing hood and will protect the operator from flying debris.

	Description	Dimensions (L x W x H)	Item #	Each
E.	Adjustable Sta-Clean Shield	6" x 9" x $\frac{1}{8}$ "	87-0120	\$34.50

Professional Polishing Hood

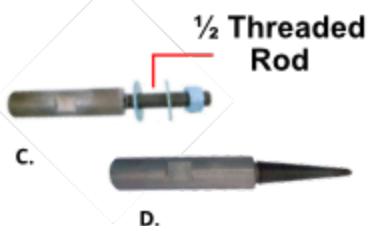
Designed and manufactured in order to complement Romanoff Dust collectors. Romanoff polishing hood maximizes the direction of continued airflow to promote maximum efficiency. The hood is made from heavy gauge sheet metal, 3in hose inlet and has a powder-coated finish. 110V bulbs not included.

	Description	Dimensions (L x W x H)	Item #	Each
F.	Romanoff Lighted Professional Polishing Hood	12 $\frac{3}{4}$ " x 16" x 15"	Z42-301	\$163.00

Enclosed Hood Grinding & Polishing Box With Light

The Romanoff Grinding & Polishing Box is designed to be used with a polishing motor to trap all precious or harmful dust. The 3" rear hose inlet connects to a vacuum. The 12.5" x 8.5" flip-up window allows access to the lighted work chamber. The interior work chamber is illuminated by a light for optimal ease of use.

	Description	Voltage	Dimensions	Item #	Each
G.	Enclosed Grinding Box	110 V	16" L x 14" W x 16" H	87-030	\$365.00



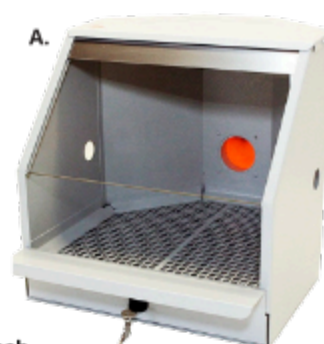
Bench Dust Vacuums & Collectors

Gold Saver Box

Get the "Midas Touch" for recovery of precious metal grindings! A unique item, the Gold Saver is equipped with a wire mesh rack allowing the grindings and filings to fall into the sliding drawer below. A security lock and two keys are supplied with the unit to prevent pilferage.

Key features

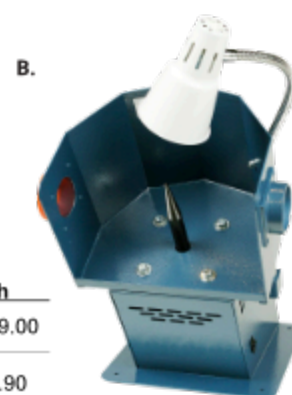
- Fluorescent light beneath the hood for illumination without shadows. (Bulbs sold separately)
- Clear acrylic frontal shield provides protection for employees
- 3" inlet in the back for easy hook-up to your dust collector
- Security locking drawer is designed to prevent pilferage



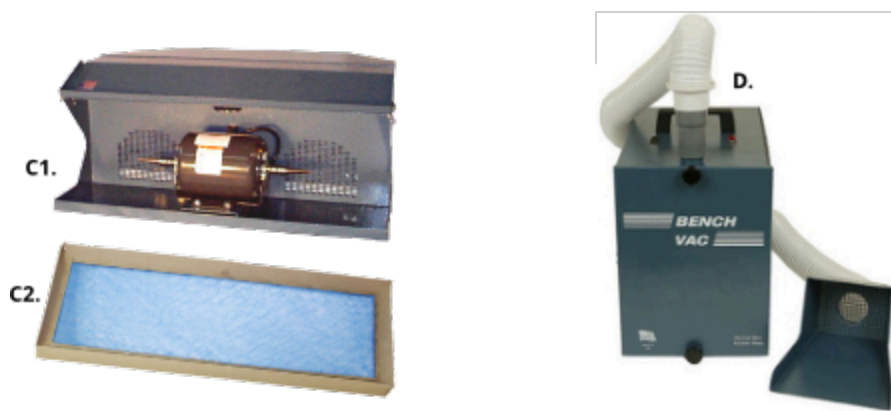
Description	Item #	Type	Voltage	Dimensions (L x W x H)	Each
A. Gold Saver Grinding Box	87-029	Lighted	110 V	16" x 16" x 16"	\$392.50

Romanoff Table Top Split Lap Station

Split lapping is the best method for achieving a flat surface when polishing. The open grooves on the mounted split laps will allow light to pass through, while the polisher is lapping the sides of the metal part. This 3450 RPM ball bearing motor is built for professional use in a variety of tough applications. Features rugged iron base, on/off switch, 3" inlet for connection to dust collector, heavy duty steel hood, adjustable light socket and tapered spindle.



Description	HP	Voltage	Item #	Each
B1. 1 Split Lap Station	½	110 V	87-0265	\$559.00
B2. ½" Set Screw, 6" Tapered Left Hand Spindle	---	---	87-104L-2	\$24.90



Compact Polishing Machines & Bench Dust Collectors

Our under bench and table top dust collectors come in a variety of sizes that are conveniently sized and surprisingly powerful. Choose from either a single spindle or double spindle design, both of which feature a ½ HP motor. Large intake openings positioned behind the arbor shafts, so that even the largest size buff can be used. Dust, lint, polishing powders, filings, etc. are quickly removed from the air, thereby keeping your store or shop clean. 110V.

Description	Item #	HP	CFM	Dimensions (L x W x H)	Each
C1. Dual Spindle Dust Collector	87-003B	½	465	32 ½" x 22" x 12"	\$753.00
C2. Replacement Filter For Dual Spindle Dust Collector	87-003F	---	---	12" x 32" x 2"	
D. Gold Catcher Bench Vac	87-005	½	280	10" x 15-1/4" x 14"	\$753.00
E1. Silent Deluxe Vacuum Odor & Hepa Filter With Speed Control	RE-1000-15	½	390	32 ½" x 22" x "	\$1,184.45
E2. Replacement HEPA Filter Elettrolaser Deluxe Vacuum	RE-1000-15F	---	---	12" x 9" x 3"	\$105.95

Muslin Polishing Buffs

Yellow Muslin Buffs

Specially treated to be stiffer and last two to three times longer than their white counterparts. They're well suited for first stage polishing with cutting compounds such as tripoli, white diamond, and greystar. They have an 80/86 weave with a leather center.

Diameter	Item #	Thick.	Stitching Rows	Each (1-9)	Each (10+)
1"	89-451-Y	16-ply	1	\$0.98	\$0.89
4"	89-082	Razor Edge	5	\$6.15	\$5.95
4"	89-0844	30-ply	3	\$4.20	\$3.85
4"	89-094	50-ply	3	\$6.20	\$6.00
5"	89-083	Razor Edge	8	\$6.59	\$6.35
5"	89-0955	30-ply	3	\$7.15	\$6.25
5"	89-095	50-ply	3	\$11.75	\$10.99
5"	89-0953	60-ply	3	\$8.15	\$6.45
6"	89-084	Razor Edge	10	\$7.25	\$6.25
6"	89-096	30-ply	4	\$7.95	\$5.95
6"	89-098	60-ply	4	\$9.95	\$8.49
7"	89-100	60-ply	4	\$14.15	\$13.45

White Muslin Buffs

Made of the finest quality cotton material. They have an 80/80 weave and leather center. They are most commonly used for final polishing with red, green, and other final finish polishing compounds.

Diameter	Item #	Thick.	Stitching Rows	Each (1-9)	Each (10+)
7/8"	89-450	16	1	\$0.96	\$0.92
1"	89-451	16	1	\$0.98	\$0.89
1"	89-451-2	16	2	\$1.09	\$1.04
1 1/4"	89-452	16	3	\$1.19	\$1.12
2"	89-454	16	4	\$1.35	\$1.29
4"	89-078	Razor Edge	6	\$6.45	\$4.95
4"	89-050	30	3	\$5.45	\$3.69
4"	89-052	40	3	\$5.85	\$4.65
4"	89-053	50	1	\$6.10	\$4.55
4"	89-054	50	3	\$5.45	\$5.18
4"	89-056	60	3	\$4.99	\$4.75
5"	89-058	30	3	\$5.95	\$4.80
5"	89-061	50	3	\$8.20	\$7.79
5"	89-062	60	3	\$7.19	\$6.45
5"	89-079	Razor Edge	8	\$5.90	\$5.55
6"	89-064	30	3	\$7.80	\$7.45
6"	89-067	50	1	\$7.48	\$7.11
6"	89-068	50	4	\$12.10	\$11.50
6"	89-070	60	4	\$18.75	\$17.82
6"	89-080	Razor Edge	10	\$6.95	\$6.65

Blue Hi-Shine Platinum Buffs

Specially treated to produce a uniformly high-shine on any metal, especially platinum and white gold without leaving drag marks or fine scratches. Since their inception, polishers can now easily achieve a finer polish in less time. All blue buffs are stitched with a leather shellac center.

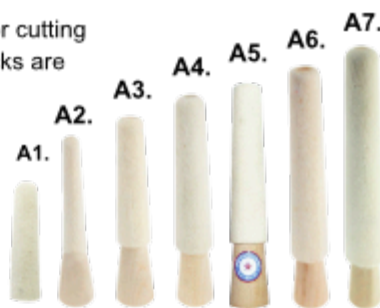
Diameter	Item #	Thick.	Stitching Rows	Each (1-9)	Each (10+)
4"	89-054-B	50	3	\$6.05	\$5.75
5"	89-061-B	50	3	\$7.70	\$7.32
6"	89-064-B	30	4	\$8.99	\$8.55
6"	89-068-B	50	4	\$11.20	\$10.64
6"	89-070-B	60	4	\$10.29	\$9.78
6"	89-084-B	Razor Edge	10	\$8.90	\$7.90
8"	89-103-B	Razor Edge	14	\$13.40	\$13.40

Specialty Buffs & Brushes

Inside Ring Felt Buffs

Made from high-grade wool felt that's permanently mounted to a tapered wood mandrel. Used for cutting and polishing the inside of rings and curved surfaces with various polishing compounds. Felt sticks are placed onto a tapered spindle from a polishing motor. Length listed below is the felt length only.

Length	Item #	Diameter	Finger Size	Each (1-5)	Each (6+)
A1. 3" (Rock Hard)	89-510-HD	$\frac{1}{16}$ " x $\frac{3}{4}$ "	5-10	\$3.95	\$3.60
A2. 3"	89-500	$\frac{1}{16}$ " x $\frac{1}{16}$ "	1-5	\$4.60	\$4.37
A3. 3"	89-510	$\frac{1}{16}$ " x $\frac{3}{4}$ "	5-10	\$4.15	\$3.95
A4. 4" (Firm)	89-530	$\frac{1}{8}$ " x $\frac{1}{2}$ "	8-11	\$5.60	\$5.32
A5. 4" (Medium)	89-530-P	$\frac{1}{8}$ " x $\frac{1}{2}$ "	8-11	\$7.45	\$5.10
A6. 5"	89-550	$1\frac{1}{16}$ " x 1"	8-17	\$5.40	\$4.79
A7. 6"	89-560	$\frac{3}{4}$ " x $1\frac{1}{16}$ "	9-20	\$5.90	\$5.29



Paramount Split Lap Wheels

The standard of excellence in quality polishing and long lasting split lap performance. The felt is steamed to shrink and thicken the fibers during manufacturing before being pressed to a specific hardness.



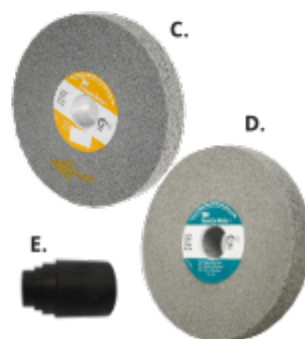
Dimensions	Item #	Grit	Each (1-2)	Each (3+)
B1. 4" x $\frac{1}{2}$ "	89-0264	Medium	\$60.80	\$57.76
B2. 4" x $\frac{1}{2}$ "	89-0265	Hard	\$48.60	\$46.17
B3. 4" x $\frac{1}{2}$ "	89-0262	Flint Hard	\$38.90	\$35.95
B4. 5" x $\frac{1}{2}$ "	89-026	Medium	\$44.50	\$42.28
B5. 5" x $\frac{1}{2}$ "	89-026-5	Hard	\$38.60	\$34.75
B6. 5" x $\frac{1}{2}$ "	89-026-R	Rock Hard	\$49.50	\$36.25

Dimensions	Item #	Grit	Each (1-2)	Each (3+)
B7. 6" x $\frac{1}{2}$ "	89-027	Medium	\$45.35	\$43.09
B8. 6" x $\frac{1}{2}$ "	89-028	Hard	\$53.25	\$50.59
B9. 6" x $\frac{1}{2}$ "	89-029	Rock Hard	\$60.65	\$57.62
B10. 6" x $\frac{1}{2}$ "	89-030	Flint Hard	\$67.85	\$64.46
B11. 7" x $\frac{1}{2}$ "	89-032	Hard	\$64.10	\$60.90
B12. 7" x $\frac{1}{2}$ "	89-033	Rock Hard	\$72.95	\$70.80
B13. 8" x $\frac{1}{2}$ "	89-035	Medium	\$87.50	\$84.90
B14. 8" x $\frac{1}{2}$ "	89-036	Hard	\$91.19	\$88.46

3M Lite Deburring & Finishing Wheels

Long-lasting and will always give you consistent result, pre and post finish. Can be used for all precious metals, white metals, and zinc. Used for cutting down sprues, gates and flashing. These wheels have a flexible open-web abrasive impregnated with silicon carbide.

Description	Item #	Density	Grit	Each
C. Deburring Wheel 6" x 1" x 1"	91-0566-7S	7S FIN	Medium/Hard	\$140.50
D. Deburring Wheel 6" x 1" x 1"	91-0566-9S	9S FIN	Medium	\$140.50
E. Arbor Adapter Set	91-0566-ADP	---	---	\$10.49



Original MK Dental Brushes

The highest quality metal hub brushes to provide you with the perfect brush for cleaning or polishing in hard-to-reach areas. Available in different hardness's to offer the ideal polishing application for your production needs. Sold in bulk only. 144 pieces per box.

Diameter	Item #	Hardness	Trim Length	Each
F1. $\frac{1}{8}$ "	89-145	Soft	$\frac{1}{8}$ "	\$150.65
F2. $\frac{1}{4}$ "	89-146	Soft	$\frac{3}{16}$ "	\$121.55
F3. 1"	89-147	Soft	$\frac{1}{4}$ "	\$144.45
F4. $\frac{1}{2}$ "	89-149	Medium	$\frac{1}{8}$ "	\$178.00
F5. $\frac{3}{4}$ "	89-150	Medium	$\frac{3}{16}$ "	\$104.15
F6. 1"	89-151	Medium	$\frac{1}{4}$ "	\$127.60
F7. $\frac{1}{2}$ "	89-153	Hard	$\frac{1}{8}$ "	\$150.70
F8. $\frac{3}{4}$ "	89-154	Hard	$\frac{3}{16}$ "	\$118.10
F9. 1"	89-155	Hard	$\frac{1}{4}$ "	\$146.70
G. MK Dental Brush Spindle 3 $\frac{3}{16}$ " (L)	92-024			\$11.75



Romanoff Dental Brushes

A tightly packed 2" bristle brush with a lead center. Threads securely onto a tapered spindle. Sold individually.

Diameter	Item #	Hardness	Each
H. 2"	89-174	Hard	\$17.80

Polishing Brushes & Accessories



Cocker-Weber Brushes

An American-made industry standard, come in a wide variety of sizes and bristle lengths, making them perfect for use by goldsmiths, silversmiths, watchmakers, fine hardware manufacturers, artisans, and workers of soft metals. All brushes are made of pure Chungking bristles and a hardwood hub. Brushes are available in the following qualities:

Standard: Good quality, folded stiff Chungking bristles

Superior: High-quality, unfolded extra stiff Chungking bristles

	Style	Quality	Item #	Trim Hair	Rows	Hub Dia.	Each (1-23)	Each (24-143)	Each (144+)
A1.	1C	Standard	89-113-BL	3/8	1	1 1/2"	\$2.14	\$1.99	\$1.90
A2.	1C	Superior	89-113	3/8	1	1 1/2"	\$2.29	\$2.19	\$1.99
B1.	1B	Standard	89-114-BL	3/8	1	1 1/2"	\$2.14	\$1.89	\$1.72
B2.	1B	Superior	89-114	3/8	1	1 1/2"	\$2.29	\$2.05	\$1.96
C1.	1A	Standard	89-115-BL	3/8	1	1 1/2"	\$2.14	\$2.04	\$1.94
C2.	1A	Superior	89-115	3/8	1	1 1/2"	\$2.29	\$2.19	\$1.99
D1.	2C	Standard	89-116-BL	3/8	2	1 1/2"	\$2.63	\$2.49	\$2.37
D2.	2C	Superior	89-116	3/8	2	1 1/2"	\$3.25	\$3.09	\$2.95
E1.	2B	Standard	89-117-BL	1/2	2	1 1/2"	\$2.63	\$2.50	\$2.38
E2.	2B	Superior	89-117	1/2	2	1 1/2"	\$3.23	\$3.07	\$2.92
F1.	2A	Standard	89-118-BL	3/8	2	1 1/2"	\$2.49	\$2.39	\$2.25
F2.	2A	Superior	89-118	3/8	2	1 1/2"	\$3.25	\$3.09	\$2.99
G.	3A	Superior	89-110	3/8	3	1 1/2"	\$4.95	\$4.71	\$4.67
H1.	6A	Superior	89-112	3/8	2	1 1/4"	\$2.34	\$2.24	\$2.12
H2.	6C	Superior	89-111	3/8	2	1 1/4"	\$2.34	\$2.24	\$2.12
I.	7A	Superior	89-1116	3/8	3	1 1/4"	\$2.79	\$2.69	\$2.56



Dialux French Premium Polishing Compounds (3 3/4 x 1 x 1")

Rouge Color	Description	Item #	Each (1-4)	Each (5+)
J. White	Final Polish All Metals	93-017	\$5.98	\$5.69
K. Blue	Final Polish for Platinum / White Gold	93-018	\$6.49	\$6.29
L. Green	Final Polish for Harder Metals	93-018-GREEN	\$5.98	\$5.69
M. Red	Final Polish for Gold	93-018-RED	\$5.98	\$5.69



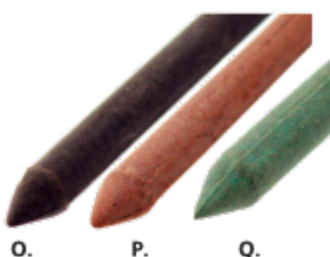
Polishing Points Mandrels

Description	Item #	Shank Dimensions	Each (1-11)	Each (12+)
N. Mandrel for 3mm dia. x 25mm rubber polishing points.	91-091-MMPM	3/32" (2.38 mm)	\$4.30	\$3.90

Polishing Points

These high-quality, long-lasting rods measure 1" (25mm) in length by 3mm diameter. These points can be shaped as needed, and are used for polishing and pre-finishing in hard to reach areas.

Color	Item #	Grit	# Per Box	Each (1-2)	Each (3+)
O1. Dark Brown	91-091-DKBR	Coarse	25	\$13.20	\$12.45
O2. Dark Brown	91-091-DB100	Coarse	100	\$47.94	\$44.39
P1. Reddish Brown	91-091-BROWN	Medium	25	\$13.20	\$12.45
P2. Reddish Brown	91-091-BR100	Medium	100	\$47.94	\$44.39
Q1. Green	91-091-GREEN	Fine	25	\$13.20	\$12.45



Polishing Compounds

ROMANOFF
SINCE 1949
INTERNATIONAL SUPPLY CORPORATION

Water Based Soluble Polishing Compounds

Designed for faster removal during ultrasonic washing. Slightly dryer than traditional compounds.

Description	Application	Item #	Size	Each (1-9)	Each (10+)
A. Tripoli	1st Cut Brushing	93-002-WS	1lb	\$4.36	\$4.18
B. GreyStar	2nd Cut Lapping	93-004-WS	1lb	\$6.35	\$6.10
C. Red Rouge	Final Polish	93-006-WS	1lb	\$7.35	\$7.05

Oil Based Polishing Compounds

Oil based polishing compound generally last longer and adhere better to brushes, polishing buffs and felt wheels.

Description	Application	Item #	Size	Each (1-9lbs)	Each (10+)
D. Green Rouge	Highest Luster	93-011-1	1lb	\$19.40	\$18.49
E. Tripoli	1st Cut Brushing	93-002	1lb	\$5.59	\$5.45
F. White Diamond	2nd Cut	93-003	1lb	\$3.85	\$3.63
G. Zam Rouge	Final Polish	93-008-M	3lb	\$15.55	\$14.90
H. Yellow Rouge	Medium/Fine Cut	93-009-Y1	1lb	\$7.15	\$6.85
I. Blue Rouge	Polish Silver	93-0120	3lb	\$17.95	\$17.23
J. GreyStar	2nd Cut Lapping	93-004-SB	1lb	\$5.80	\$5.56
K. Lea-C Compound	Satin Finish	93-005	3lb	\$17.98	\$16.79

Yasui Platinum Polishing Compounds

These compressed, non-animal fat based polishing compounds create a much better polishing effect and have a much longer life compared to similar compounds.

Description	Item #	Cut	Size	Each (1-4)	Each (5+)
L. Yasui Fine Polish Medium	93-019-8040	4000	350g	\$24.60	\$22.95
M. Yasui Super Blue Hi-Shine	93-019-8080	8000	350g	\$21.95	\$19.95

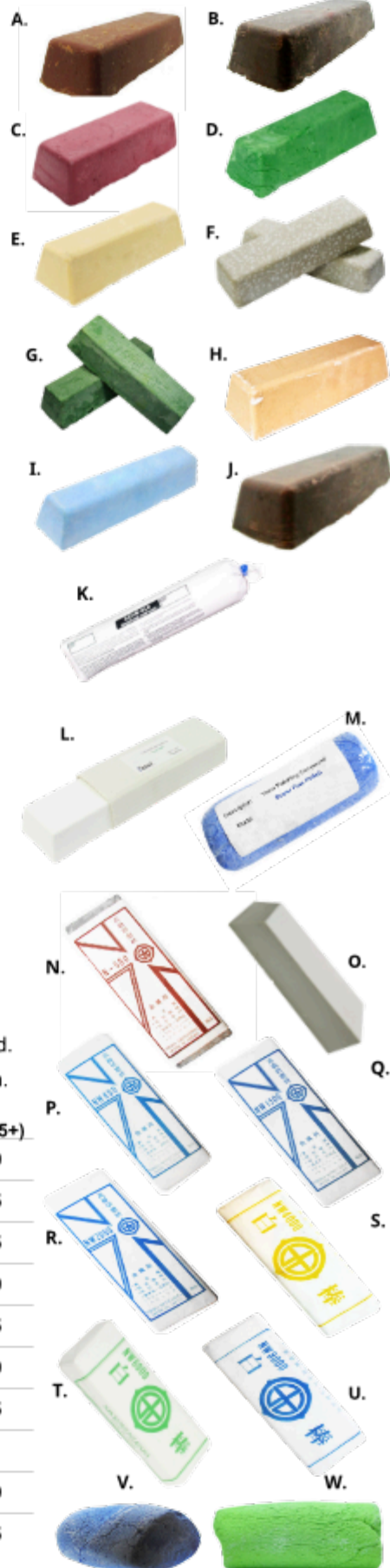
Romanoff Japanese Polishing Compounds

First Cut: Used for smoothing out rough surfaces. Are generally moist.

Medium/Second Cut: Used to smooth out semi-smooth surfaces, remove less surface material, and prepare the surface for the final high-luster Polish. Typically a dryer compound.

Final/Fine: Keeps surface removal to a minimum. Necessary to produce a high luster finish.

Description	Item #	Cut	Size	Each (1-4)	Each (5+)
N. Platinum Greystar	93-019-GREY	500	350g	\$21.05	\$20.30
O. White Gold First Cut	93-019-800W	700	800g	\$22.10	\$21.25
P. Platinum First Cut	93-019-800	800	420g	\$26.25	\$23.65
Q. Platinum Lapping Compound	93-019-1500	1500	420g	\$31.20	\$27.90
R. Platinum Medium Cut	93-019-2000	2000	400g	\$32.50	\$29.25
S. Platinum Medium/ Fine Cut	93-019-4000	4000	390g	\$25.95	\$29.20
T. Polishing Compound	93-019-6000	6000	390g	\$21.95	\$21.15
U. Platinum Super Shine Polish	93-019-8000	8000	350g	\$36.95	\$35.11
V. Platinum Blue Picasso Final Polish	93-019-8000B	8000	350g	\$31.95	\$30.69
W. Romanoff Wasabi Green High Shine	93-019-8000GP	9000	350g	\$29.95	\$28.75



Plating Machines

Versatile Plating Applications

A must-have for any jewelry, goldsmith, optical, dental, or model fabrication workshop. Made from hot-painted steel, Romanoff Plating Machines come bundled with Pyrex borosilicate glass tanks, plexiglass protection covers and anti-acid P.V.C. working tanks. Made in Italy.

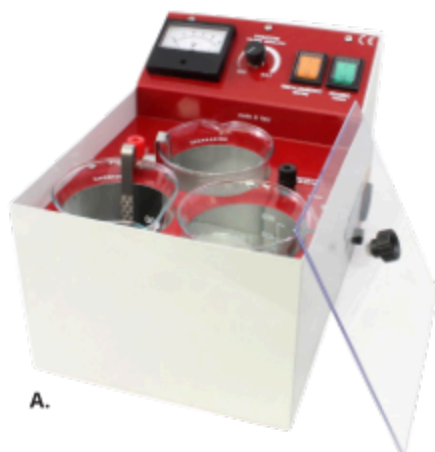
They're capable of plating gold, silver, rhodium, nickel, copper, as well as electrolytic de-greasing. They come bundled with electro-cleaner solution, stainless steel, platinized titanium anodes cable with holder for the objects.

Main Features

- 0°C - 120°C thermostat for temperature regulation of warmed tanks
- 0 - 60 seconds timer with selector for manual/ automatic work
- 0 - 15 Volt infinite DC voltage output control
- Analogical Amp and Volt Meter
- Pilot lights and protection fuses for all functions

Specifications:

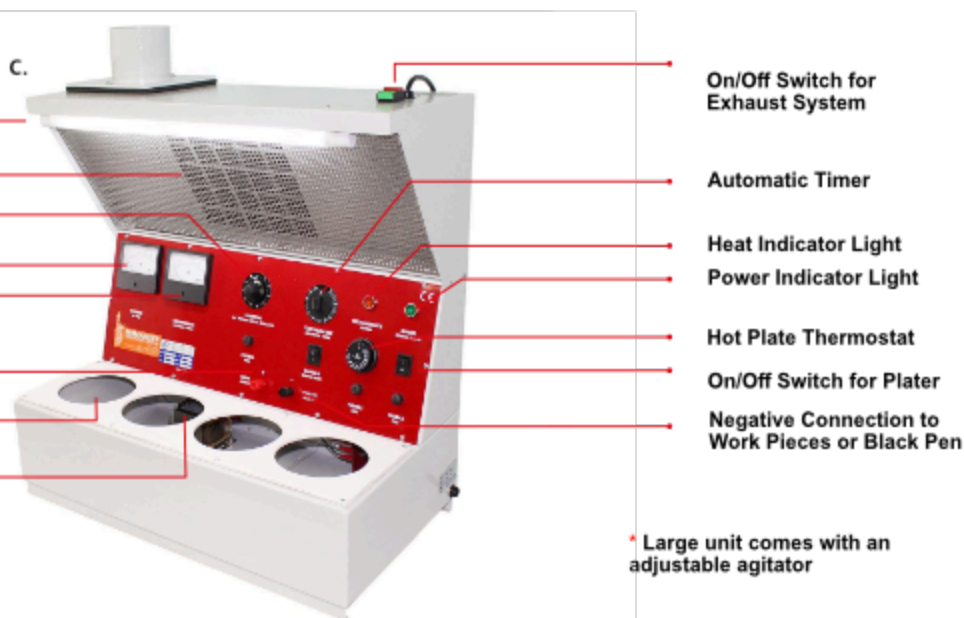
	Small	Medium	Large
Part Number	A. 80-515	B. 80-520	C. 80-525
Plating Volts	1.5 - 12	0 - 15	0 - 15
Plating Amps	5	10	15
# Of Tanks	3	3	4
Tank Size	0.6 Liters	1 Liter	2 Liters
Voltage	110V	110V	110V
Dimensions	220mm x 320mm x 220mm	350mm x 350mm x 700mm	650mm x 370mm x 400mm
Each	\$1,022.00	\$1,865.00	\$2,440.00



A.



B.



Fluorescent Work Light

Powerful Exhaust Fan with HEPA Filter

Volt Regulator

Volt Meter
Amp Meter

Positive Connection for Anodes or Red Rhodium

2 Liter Glass Jar Openings Heated Section

Internally Heated

On/Off Switch for Exhaust System

Automatic Timer

Heat Indicator Light
Power Indicator Light

Hot Plate Thermostat

On/Off Switch for Plater

Negative Connection to Work Pieces or Black Pen

* Large unit comes with an adjustable agitator

Plating Accessories

Plating Solutions

Carefully formulated to give you consistent results in your plating efforts. Generally used in stainless steel or Pyrex containers.

Plating Solutions: Contains 2g of Rhodium. Concentrate pen, bath and RTU (1 quart = 0.95L).

Rhodium Plating Solutions (2 grams): Will produce a brilliant white, tarnish-resistant, hard metal coating.

Gold Electroplating Solutions: Contains one (1) pennyweight of pure gold per quart and leaves a bright gold electroplate finish.

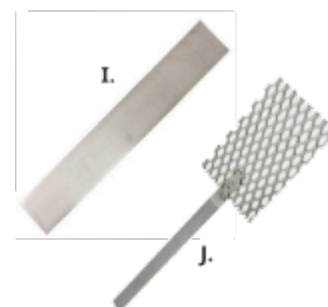
Description	Weight	Item #	Size
A. 24kt Yellow Gold Bath Plating Solutions (RTU)	2g	80-001	0.95 L
B. Double Green Plating Solution (RTU)	2g	80-003-DG	0.95 L
C. 14kt Yellow Gold Bath Plating Solutions (RTU)	2g	80-005	0.95 L
D. 18kt Yellow Gold Bath Plating Solutions (RTU)	2g	80-006	0.95 L
E. Bright Nickel Bath Plating Solutions (RTU)	1 L	80-012	0.95 L
F. Rhodium Bath Plating Solution (RTU)	2g	Z49-677-2	0.95 L
GH Rhodium Pen Plating Solution (RTU) (Haz-Mat)	2g	Z49-673-2C	4 oz



Romanoff Plating Anodes

Stainless steel insoluble anodes are used for gold plating. Platinized titanium soluble anodes are used for rhodium plating applications and assist in replenishing the working solution.

Description	Item #	Size	Application	Each
I. Stainless Steel	80-216	1" x 4"	Gold	\$24.00
J. Platinized Titanium	80-220	2 1/4" x 3"	Rhodium	\$96.50



Heavy Duty Plater & Stripper

Romanoff heavy-duty rectifiers are designed to give a steady, direct current to your plating, stripping and electroplating applications. The 30 Amp rectifier, shown at right, is designed for the small to medium size shop. This unit will easily electroplate 25 average size rings and can strip 4-5 rings. Cables included.

Description	Item #	Specs	Each
K1. Heavy Duty Rectifier	80-024	110V / 30 Amp	\$425.00
K2. Heavy Duty Rectifier	80-025	110V / 60 Amp	\$990.00
L. Rectifier Plating Cables 10 & 25 Amp	80-212	4 ft Cables	\$41.60



Liver of Sulphur

When dissolved in warm water, this product will permanently plate an antique, dark finish on silver and copper surfaces. The solution can be used in Pyrex beakers or stainless steel containers and will turn silver from brown to blue to green to light gray and then finally black depending on how long the item is left in the solution. The outside raised surfaces can be buffed for a bright shine while leaving the recessed background a dark antique look.

Description	Item #	Size	Each
M. Liver of Sulphur (Non Haz-Mat)	80-013-LS	8 oz Jar	\$28.00



Ultrasonic Cleaners

Elmasonic Easy - Ultrasonic Jewelry Cleaners

State-of-the-art solutions ideal for medical, jewelry and industrial laboratories and workshops. These microprocessor-controlled devices output an ultrasonic frequency of 37 kHz with sweep technology, making them suitable for a wide variety of cleaning tasks. Available in 7 different sizes with tank volumes ranging from 0.8 to 28 liters. Made in Germany. 110V Standard. 220V are available through special order.

Features

- Microprocessor controlled 37 kHz transducer power, self-regulating generator
- Electronic diode display for time and temperature
- Auto-start temperature control / selection
- Safety switch
- Brushed stainless steel cavitation-resistant tanks with calibrated fill level
- 100% Dry-run proof with tested ceramic heating elements
- Permanent sweep for an improved cleaning performance

A1. / A2.



A3.



	Liquid Capacity	Model	Inside Tank Size	Machine Dim.	Item #	Each
A1.	¾ Gallon	P30H	9.45" x 5.39" x 3.94"	11.81" x 7.05" x 8.70"	81-210E-SS	\$525.00
A2.	1 ½ Gallon	P60H	11.81" x 5.94" x 5.91"	14.37" x 7.32" x 10.67"	81-220S-US	\$896.00
A3.	5 Gallon	P180H	12.87" x 11.81" x 7.87"	15.38" x 13.38" x 12.64"	81-240E-SS	\$2,040.00

Romanoff Ultrasonic Racks

Heavy-duty, vinyl-covered racks with 20 hooks for holding jewelry during ultrasonic cleaning.

Description	Dimensions	Item #	Each
B1. Ultrasonic Rack 15" Adjustable Handle - 20 Hooks	8" x 3"	Z49-101	\$85.65
B2. Modular Ultrasonic Rack Add-On w/o Handle - 20 Hooks	8" x 3" x 3"	Z49-102	\$73.50

B1.



B2.



C1.



Branson Heavy-Duty Two-Part Ultrasonics

Featuring a separate tank and generator, dense stainless steel construction, solid state transistorized circuitry, replaceable transducers, and variable temperature control. These industrial strength machines are designed for medium to large sized manufacturers. The powerful action of these units result in quicker, more efficient cleaning than with any other ultrasonic cleaning machines. 110 V Standard. (220 V available through special order.)

Description	Item #	Inside Tank	Outside Tank	Generator Dimensions	Each
C1. 5.2 Gallon Tank	Z49-032-1	10" x 12" x 10" H	14" x 14" x 14" H	N/A	\$5,225.00
C2. CGX Series Generator	Z49-032-3	N/A	N/A	15" x 14" x 7" H	\$4,278.00

C2.



Ultrasonic Solution & Sinks

Original NYC BCR Plus: Ultrasonic Cleaning Solution

A Jewelry industry standard for more than 50 years. Designed to rapidly breakdown and remove buffing compounds such as rouge and tripoli. Works well with gold, silver, platinum, stainless steel, brass, etc. May also be used as a heated soak cleaner up to 140°F (60°C). BCR is a highly concentrated non-viscous, alkaline, liquid cleaner. With minimum odor. Use no more than 6 - 8 ounces per gallon of water. Hazmat shipping applies.

Description	Size	Item #	Each
A1. BCR Plus Ultrasonic Solution	1 Gallon	80-098	\$36.25
A2. BCR Plus Ultrasonic Solution	5 Gallon	80-098-5GL	\$137.40
A3. BCR Plus Ultrasonic Solution	20 Gallon	80-098-20	\$528.30
A4. BCR Plus Ultrasonic Solution	54 Gallon	80-098-BCR1	\$1,321.20

A1.



A2.



A3.



A4.



Romanoff's Magnetic Tumbling Powder Soap Concentrate

Works well by itself or in combination with our magic blue soap. This mildly-abrasive powder will brighten and smooth semi-rough surfaces.

Description	Size	Item #	Each
B. Magnetic Tumbling Powder Soap Concentrate	5 lbs	80-0975	\$49.75



Magic Blue Magnetic Tumbling & Ultra-Sonic Concentrated Cleaner

A popular liquid concentrate, commonly used in combination with our magnetic powder soap to produce a high polish. It has a high concentration of 10:1 and can also be used as an ultrasonic solution.

Description	Size	Item #	Each
C. 1 Gallon Magic Blue Concentrate	1 Gallon	80-0985-GL	\$44.39



C.

Romanoff Gold Recovery System

Combines the time-tested technique of washout recovery with a uniquely engineered baffle system to prevent your gold and other precious metals from going down the drain. These systems incorporate a series of baffles that water must rise above to get to the next, effectively making each baffle its own settling area. The rugged, reinforced polypropylene walls are non-corrosive and provide a smooth surface that prevents gold from clinging to them. Gold-laden sludge can be easily collected at any time.

Baffles: 6 **Dimensions:** 72" (L) x 22" (W) x 52" (H) Custom sizes available.

Description	Item #	Each
D. Romanoff Gold Recovery System	81-101-4	Request Pricing



Gold Filtration Sink System

This highly economical gold filtration system is designed for any sized shop and will trap all particles down to 75 µ. This unit incorporates a submersible pump, float switch, filter chamber and filter. The exit hose can be connected to your waste line, easily hooks onto a settling barrel and plugs into an ordinary outlet. 110 V. **Dimensions:** 24" (L) x 24" (W)

Description	Item #	Each
E. Gold Filtration System With Sink & Barrel (complete)	Z49-306-K	\$1,370.00

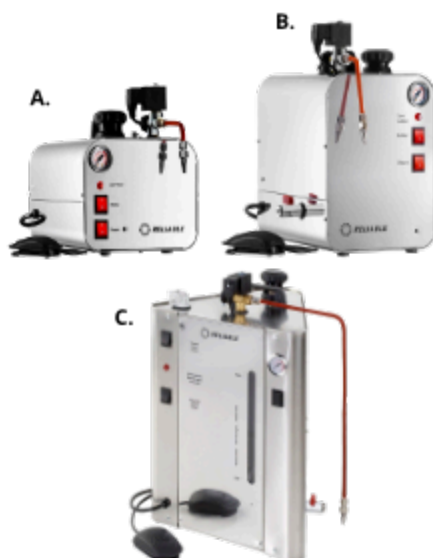


Steam Cleaners

Reliable Steam Cleaners

Featuring adjustable nozzles, foot pedals and attractive stainless steel construction. Each Reliable Steam Cleaner comes standard with four safety systems: a pressure switch, safety probe thermostat on the heating element, safety cap and valve, and an automatic low water shut-off feature. Each unit comes with a one year manufacturer's warranty and a lifetime warranty on the tanks.

Made in Italy. Available in three different models. Optional 220 V available.



	Tank Capacity	Steam Time	Max PSI	Dimensions (L x W x H)	Item #	Each
A.	0.58 gal	Up to 2 - 3hrs	50	12 1/2" x 10" x 8"	81-012-JR1	\$699.00
B.	1.25 gal	Up to 4 - 5hrs	60	8 1/2" x 13" x 15 1/2"	81-012	\$1149.00
C.	2.37 gal	Up to 8 hrs	70	12 1/4" x 14 1/4" x 20 1/2"	81-013	\$1,599.00

Hoffman Steam Machines

Efficient, reliable, and operable via electronic foot pedal and solenoid. Both units feature stainless steel outer cabinet construction to eliminate rust and are UL, CUL, and ASME approved. Other features include automatic low water cutoff, energy efficient heating elements, adjustable thermostat, safety valve, and water level sight glass. These units will produce 70 lbs to 90 lbs of consistent steam pressure.

Our heavy duty 9Kw 6 gallon models automatically replenish the boiling system for consistent steam pressure throughout the work day and can be upgraded to accommodate up to 2-3 operators. Made in USA



	Description	Dimensions	Weight	Power	Item #	Each
D.	2 Gallon Manual Fill	14" x 14" x 14"	90 lbs	110 V	81-002-R	\$1,994.95
E.	6 Gallon Automatic Fill	24" x 36" x 23"	180 lbs	220 V, 3-phase, 60 Hz 27 amps	81-004-J	\$7,985.00

Rubber Coated Steam Tweezers

Used for holding jewelry while steaming and rinsing in an ultrasonic or steam machine without scratching the surface.

	Description	Item #	Each
F1.	8"	80-225	\$5.90
F2.	Heavy Duty 10"	80-226-HD	\$11.95
F3.	12"	80-227	\$9.00



Parts Basket & Plastic Strainer

These parts baskets are great for holding small parts in an ultrasonic or under a steam machine for proper cleaning. The convenient hooks will prevent the basket from moving in a vibrating ultrasonic.

	Description	Item #	Each
G.	Parts Basket for earrings and small objects	81-000	\$6.95
H.	Strainer Basket 5 1/2"	81-030-5R	\$13.95

Tumbling Machines & Supplies

ROMANOFF
SINCE 1949
INTERNATIONAL SUPPLY CORPORATION

Romanoff Magnetic Tumblers eliminate the use of harmful bombing chemicals, remove oxidation, and will brighten and polish your pieces in less time than other conventional tumblers. Magnetic tumbling reduces finishing time without removing metal. It's a must for stone-in-place castings, filigree, and other impossible to reach places. Includes Japanese magnetic pins, Blue Magic High Shine Soap and cut down soap. 110V standard, 220V available.



Mini

82-268-USA



Medium

82-270-USA



Large

82-277-USA

Description	Item #	Speed Control	Bowl Capacity	Bowl Diameter	Bowl Replacement	Overall Dimensions	Weight	Each
Mini	82-268-USA	Variable	10 - 20 Rings	6 1/2"	82-268-USAB	7" x 7" x 10 1/2"	19 lbs	\$682.45
Medium	82-270-USA	Single	85 - 100 Rings	8 1/2"	82-270-R-B	12" x 12" x 15 1/2"	61 lbs	\$1,695.00
Large	82-277-USA	Variable + Reverse	250 - 300 Rings	11"	82-275-R-B	16" x 16" x 15"	91 lbs	\$3,475.00

Romanoff's Magnetic Tumbling Powder Soap

Works well by itself or in combination with our magic blue soap. This mildly-abrasive powder will brighten and smooth semi-rough surfaces.

Description	Size	Item #	Each
A. Magnetic Tumbling Powder Soap Concentrate	5 lbs	80-0975	\$49.75



Finishing Media

Description	Qty	Item #	Each
B1. Japanese Magnetic Tumbling Pins: 0.5mm X 5mm	250g	82-273	\$49.00
B2. Japanese Magnetic Tumbling Pins: 0.3mm X 5mm	250g	82-2733	\$65.50
C. Magnetic Tumbling Balls: 1.2mm	250g	82-2733-3	\$355.40
D. Carbon Steel Shot Media: Oval 1/8"	1 lbs	82-038	\$25.45
E1. Carbon Steel Shot Media: Ball Cones 1/8"	1 lbs	82-048	\$22.00
E2. Carbon Steel Shot Media: Ball 3/16"	1 lbs	82-042	\$13.45
F. Carbon Steel Shot Media: Diagonal 1/8"	1 lbs	82-045	\$21.77
G1. Carbon Steel Shot Media: Pins 1/16" x 3/32"	1 lbs	82-051	\$37.55
G2. Carbon Steel Shot Media: 1/8" x 3/8" Pins	1 lbs	82-052	\$32.55
H. Stainless Steel Media #2 Mix	1 lbs	82-054-SS	\$27.42
I. Pink Quartz Synthetic Plastic: Conical 7/16"	1 lbs	82-1050	\$4.75
J1. Pink Quartz Synthetic Plastic: Conical 3/8"	1 lbs	82-1051	\$5.42
J12. Pink Quartz Synthetic Plastic: Conical 1/2"	1 lbs	82-1051-1/2	\$5.42
K. Green Quartz Synthetic Plastic: Pyramid 1/4"	1 lbs	82-1035	\$7.30
L. White Porcelain Media Balls: 6mm	1 lbs	82-1074	\$8.25





Rapid Metal Surface Polishing

Aqua-Pol® 100 and **Aqua-Pol® Picco-Vario** polishing systems are the most effective, gentle and cleanest way to provide your jewelry pieces with a smooth, ultra-fine surface in a compact package!

Their powdered-coated steel construction and intuitive internal running rotors make for a complete, durable electro-polishing system with a minimal footprint!

Applications

- Polish gold, silver, brass, bronze and stainless steel
- Polish cast, 3D-printing, electro-forming pieces
- Polish filigree parts without changing the shape
- Clean tarnished pieces

The Electrolyte Difference

Koras® processing liquids are developed to perform significantly better and last longer than standard electrolytes in a wide range of applications.

From Rough Cast to Finished Piece in Under an Hour!



Polish in a Flash!

Electro-polish multiple pieces in under an hour!
(Average polishing time: 30 - 45 minutes)

High Polishing Throughput!

Process 24 to 96 pieces of jewelry at once!
(Capacity dependent on model)



KORAS Aqua-Pol Starter Kit



Specifications:

	Aqua-Pol® Picco-Vario	Aqua-Pol® 100
Part Number	82-350	82-360
Dimensions (L x D x H)	22 x 16 x 15 in (580 x 400 x 410 mm)	29 x 19 x 20 in (730 x 470 x 520 mm)
Weight	70 lbs (32 kg)	116 lbs (53 kg)
Ring Capacity	16 rings	96 rings
Power Supply	220 - 240 V	220 - 240 V
Power Consumption	0.3 kW	1.1 kW

KORAS Aqua-Pol® Accessories



Gold / Silver Electro-Polishing Liquid for KORAS Aqua-Pol® Electro-Polishers

Electro-polishing solution for gold or silver. Creates a highly-polished surface finish. Sold in 25 liter containers. 1 Liter can process approximately 400 average-sized rings.

Description	Size	Item #	Each
A. Gold Electro-Polishing Liquid	25 Liters	82-360-130	\$1,219.00
B. Silver Electro-Polishing Liquid	25 Liters	82-360-120	\$1,100.00



Polishing Chips for KORAS Aqua-Pol® Electro-Polishing System

Polishing media for use with KORAS Electro-polishing solution. Helps create a high-polished surface finish. Solid per 11 lb (5 kg) pail.

Description	Size	Item #	Each
C. Electrolyte Exchange Tank For KORAS Aqua-Pol® Picco-Vario	11 Pounds	82-350-050	\$1,885.00



Gear Drive System for KORAS Aqua-Pol® Electro-Polishers

AquaPol Gear Drive System automatically circulates the attached jewelry through the electrolyte solution during the electro-polishing process, resulting in a uniform polished finished.

Description	Item #	Each
D. 16 Ring Standard Gear Drive System for Aqua-Pol® Picco-Vario	82-350-060	\$1,035.00
E. 24 Ring Upgraded Gear Drive System for Aqua-Pol® Picco-Vario	82-350-24	\$1,992.00
F. 32 Ring Upgraded Gear Drive System for Aqua-Pol® Picco-Vario	82-350-32	\$2,409.00
G. 96 Ring Standard Gear Drive System for Aqua-Pol® 100	82-360-025	\$2,035.00



Washing Tanks For KORAS Aqua-Pol® Electro-Polishers

Washing tank for KORAS Aqua-Pol 100 Systems. Used for washing electrolyte residue from electroplated jewelry For use in conjunction with KORAS Gear Drive Systems. (Sold Separately)

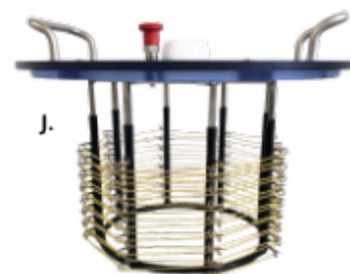
Description	Item #	Each
H. Washing Tank For Aqua-Pol 100	82-360-030	\$1,477.00
I. Washing Tank For Aqua-Pol Picco-Vario	82-350-020	\$1,077.00

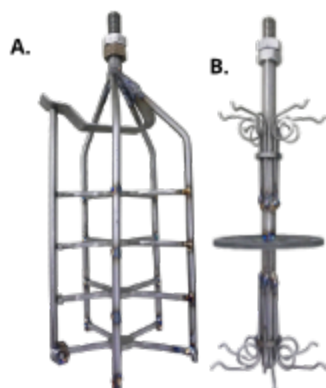


25 Meter Chain Holder with Gear Drive System for KORAS Aqua-Pol® 100

Gear drive system with chain holder for KORAS Aqua-Pol 100 systems. Holds up to 25 meter chains.

Description	Item #	Each
J. 25 Meter Chain Holder w/ Gear Drive for KORAS Aqua-Pol 100	82-360-030	\$2,778.00





Bangle & Small Chain/Parts Holders for Aqua-Pol[®] 100 Electro-Polishers

Bangle, bracelet, and chain carrying/holding rack for KORAS Aqua-Pol electro-polishers.

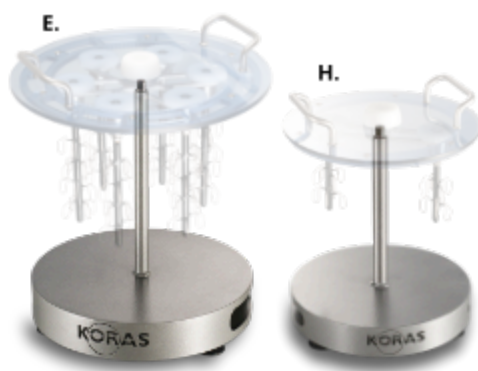
Description	Item #	Each
A. 4-Piece Bangle Holder for Aqua-Pol [®] 100	82-360-431	\$478.00
B. Chain / Ring Holder for Aqua-Pol [®] 100	82-360-432	\$478.00



Bangle Holders for Aqua-Pol[®] Picco-Vario Electro-Polishers

Bangle carrying/holding rack for KORAS Aqua-Pol electro-polishers.

Description	Item #	Each
C. 2-Piece Bangle Holder for Aqua-Pol [®] Picco-Vario	82-350-437	\$370.00
D. 8-Ring Standard Holder for Aqua-Pol [®] Picco-Vario	82-350-434	\$235.00



Hang-Up Stands for Aqua-Pol[®] Gear Drive Systems

Jewelry hanging/drying rack for Aqua-Pol[®] Gear Drive systems. Gear Drive sold separately.

Description	Item #	Each
E. Hang-Up Stand for Aqua-Pol [®] 100	82-360-024	\$462.00
F. Hang-Up Stand for Aqua-Pol [®] Picco-Vario	82-350-040	\$400.00



Electrolyte Exchange Tank For KORAS AquaPol[®] Picco-Vario

Electrolyte Exchange Tank for AquaPol Picco-Vario. Used to easily exchange different electrolyte solutions for separate metal stripping processes.

Description	Item #	Each
G. Electrolyte Exchange Tank For KORAS Aqua-Pol Picco-Vario	82-350-050	\$1,885.00



Pin Wrench for KORAS Aqua-Pol[®] Electro-Polisher

Pin wrench for removing and installing KORAS Aqua-Pol[®] accessories.

Description	Item #	Each
H. Pin Wrench for KORAS Aqua-Pol Accessories	82-360-440	\$216.00



Step Up/Step Down Transformer 110/220V

Used to adjust voltage to 110V or 220V electrical systems.

Description	Item #	Each
I. Step Up/Step Down Transformer 110/220V	74-269-T	\$154.00

Automatic Investment Loading System

For EB Type Investment Machines



Automatic Water and Investment Powder Loading

The KWS Automatic Loading System consists of a powder container, a feed screw, a weighing station with separate containers for water and gypsum as well as a control unit. The machine operator needs only to set the water/investment powder ratio in the machines controller once. Setting the required quantity of investment is done via the internal electronic scale which makes weighing both components efficient. Components are poured from the top into the investment machine's barrel.

Measure, mix and pour investment automatically!



Advantages

- A dust-free work environment, guaranteed by the connected dust extractor.
- Consistent ratio of water and investment powder.
- Zero time loss due to calculation errors.
- Reduced processing time due to simultaneous measurement and dispensing mixing procedures.
- Precise investment powder and water disbursement
- Load investment without fear of investment inhalation
- Compatible with existing KWS EB Investment Machines.

Specifications:

Part Number	76-3008
Max volume of investment material per operation	66 lbs
Measurement time for both components	3 Minutes
9" 110V Programmable Furnace Accuracy Measurement	+/- 20 g 9"
Supply 400 V / 3-phase / 50 c	2 KW
Storage container	264 lbs, optional 881 lbs
Dimensions and weight with storage (881lbs)	112" L x 51.9" W x 114" H - 705 lbs

Investment Blaster Cabinet

Deliver 2,000 PSI of adjustable investment blasting pressure at 1750RPM!
With heavy-duty polypropylene construction, a wide devesting chamber for multiple flasks, dual foot pedals for independent pump and windshield washer operation, and built-in industrial rubber gloves for your protection, our blaster cabinets are built to last, keep you safe, and speed up your production!

Main Features

- 2,000 PSI of adjustable pressure from the built-in Italian oil pump
- Two foot pedals for independent pump and windshield washer operation
- Bright internal LED viewing light
- Large viewing window
- New larger working chamber for multiple flasks



	Max PSI	Voltage	Dimensions (L x W x H)	Item #	Each
A.	2,000	110V (220V Upon Request)	30" x 24" x 32"	Z50-002-R	\$4,595.00

Equipment Financing Available!

Instant Approval!

Romanoff International offers **special financing** on select equipment and bundles to get your business from setup to production.

Speak to a Romanoff Product Specialist today to see if you qualify for competitive financing options, or apply online via our website under the resource center.

romanoff.com/financing

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Technical Service

Question? We have answers!

Our **in-house factory-certified technicians** are committed to providing our clients the highest level of technical support and service. We are proud to be the only service company in the Americas to offer **onsite and remote technical support** for both 3D Printing, 3D Scanners, Laser Welding Equipment and Precision Vacuum and Induction Casting Technologies.

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