

ROMANOFF®

INTERNATIONAL SUPPLY CORPORATION

THE GLOBAL
ONE-STOP
SUPPLY SHOP

DIGITAL VERSION
**EQUIPMENT
CATALOG
2021**

DOWNLOAD OUR
DIGITAL CATALOG!



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 20+ 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.

Be Sure to Visit Romanoff.com!



Table of Contents

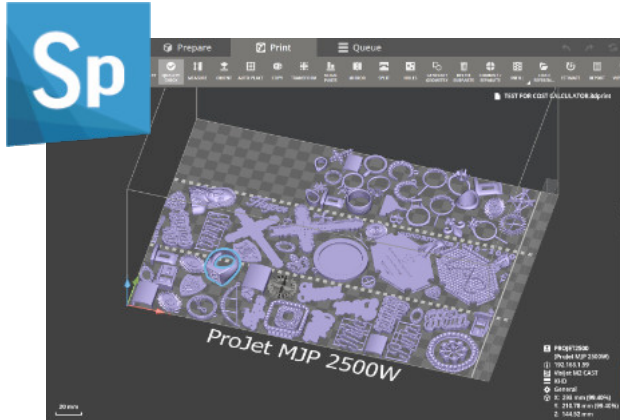
3D Systems.....	4-5	Table Top Melting.....	37
Tiger3D Scanners & Printers.....	6-9	RCS Centrifugal Casting Machines.....	38-39
Yasui.....	10-13	Foredom Flexible Shaft Machines.....	40-41
Romanoff Burnout Furnaces.....	14-15	ElettroLaser Engravers & Welders.....	42-45
KWS Investing Machines.....	16, 58	Dust Collectors.....	46
Investment.....	17	Polishing & Finishing.....	47-49
CIMO St. Louis Investment Mixers.....	18-19	Plating.....	50-51
Vac-U-Vest.....	20	Tumbling & Finishing.....	52-53
Wax Injecting.....	21	Steam Machines & Elma UltraSonics	54-55
Indutherm.....	22-26 28-36	White Metal Casting.....	56-57

ABOUT US

Since 1949, Romanoff has successfully serviced the metal fabrication industry with the highest level of customer satisfaction. In our industry for the last 16-years, we are the top USA go-to company for 3D printing technology needs!

We specialize in the installation and training of 3D Systems Printers and our own proprietary Tiger3D Printers for lost wax casting, R & D applications and induction melting equipment for metal fabrication, from great partners such as Yasui & Co., Indutherm GmbH and Blue Power Casting Systems. These technologies are commonly used for all facets of rapid prototyping, custom alloy development and precision lost wax casting applications for: Aero-Space, Medical, Dental, Jewelry parts and Industrial applications.





- Use a single software application from CAD to print.
- Increase efficiency with optimized data management.
- Streamline time to print and finished parts with a single, easy-to-use interface.
- Improve productivity, print better parts and reduce printer downtime with management and monitoring tools.



Import

Directly import native CAD files from industry-leading CAD systems, which greatly reduces the need for file repair and fixing, shortens the file preparation time, and facilitates the design-to-print process.



Repair

Automatically analyze part geometry; correct errors for translation issues in your CAD or STL design files and bad polygon geometry in 3D scans; and select, edit, and delete polygons and intelligently fill holes and gaps in your polygon data with manual polygon editing tools.



Place

Save custom placement styles and optimize the printer volume for maximum efficiency and productivity with comprehensive auto placement including requirement-driven orientation, dense 3D nesting, and automatic pre-printing quality checking.



Support

Achieve better surface quality for printed parts that are easier to remove using less material and post processing with automatic, intelligent, finely-tuned support generation and optimized preset profiles accompanied by a full range of structure and anchor point extraction parameters.



Print

Achieve accurate and powerful slicing and accurate build time and material estimates. Submit print jobs directly from your print workspace or load 3D Sprint build files created on another system directly to the printer. Manage your directly-connected printer or get visibility for all networked or shared printers to control job priorities with queue management tools.

Streamlined All-In-One 3D Printing Solution

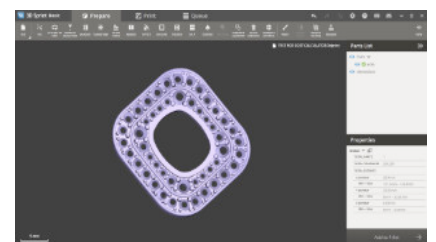
3D Sprint® is exclusive software from 3D Systems for preparing and optimizing CAD and polygon data and managing the additive manufacturing (AM) process for 3D Systems multi-jet printing (MJP).

Two licenses are included with every supported 3D Systems printer, offering direct and virtual machine support. 3D Sprint delivers tools that allow you to 3D print better parts without high-priced software.

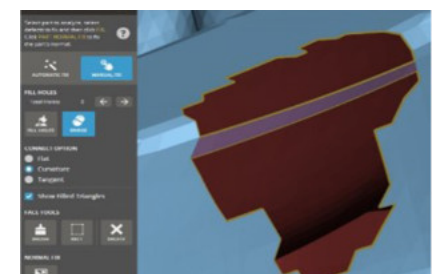
Romanoff offers optional **3D Sprint Software Training** to get you up to speed with your new 3D Systems purchase and straight to your production in record time!



Multiple Machines - One Robust Software



Automate Your Design Process



Analyze and Repair With Ease

ProJet MJP 2500W

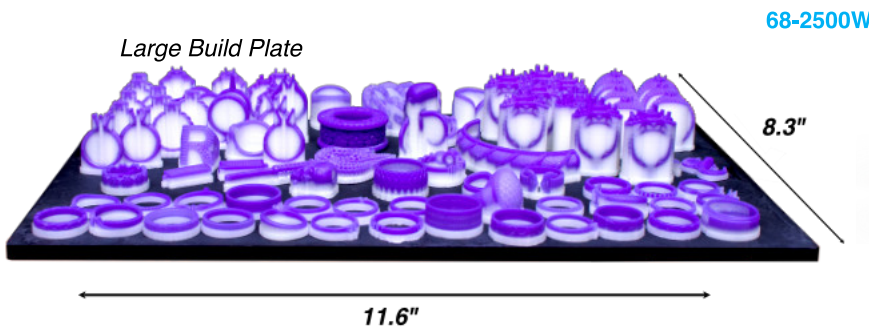
Wax Pattern MultiJet 3D Printer



RealWax®, Real Results

The **ProJet MJP 2500W** 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. Combine up to 10x faster print speeds and 3.7x larger build volume than similar class printers for high productivity of precision, fine jewelry casting patterns with an affordable 3D printer.

VOTED
BEST
WAX 3D
PRINTER



68-2500W



Hollow printed piece

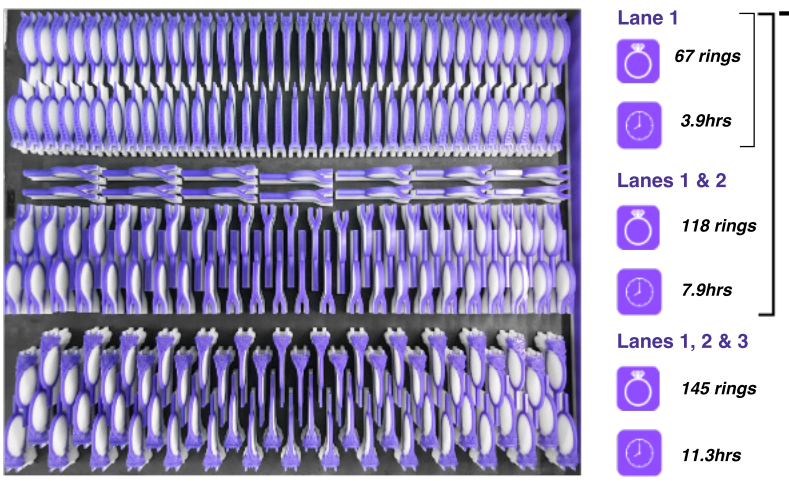
68-2502W

68-2501W

Features & Benefits

- MultiJet Printing Technology provides unmatched speed
- 100% Wax Metal Casting Patterns ensure consistent casting results
- Streamlined File to Print Workflow with 3D Sprint software
- Fast and easy post-processing with dissolvable supports offers greater geometric freedom with high performance, durable casting wax.
- VisiJet® M2 100% wax material melts like standard casting waxes, with negligible ash content in casting.

Grow Times



Specifications

Build Envelope	11.6" L x 8.3" W x 5.6" H
Z Resolution	1200 x 1200 x 1600 DPI; 16 µ layers
Typical Accuracy	±0.004 in per in (±0.1016 mm per 25.4 mm) of part dimensions
Build Speed mm/hr (Per Lane)	1 Lane: 5.08mm/hr 2 Lanes: 2.54mm/hr 3 Lanes: 1.78mm/hr
Build Material PN:68-2501W	VisiJet® M2 Cast 100% RealWax™ (1.17kg)
Support Material PN: 68-2502W	VisiJet® M2 SUW - Dissolvable non-toxic wax support material with easy break-away structure for bulky parts (1.3kg)
Printer Size	Actual: 44.1" L x 29.1" W x 42.1" H
Weight	Uncrated: 465 lbs Crated: 715 lbs
Included Soft- ware	3D Sprint™ (2 Licenses)
Warranty	1 Year Parts and Labor Extended Warranty Available



Tiger3D APEX K Series

Professional 3D Printers

The next evolution of Tiger is here! Introducing the **Tiger3D APEX K Series**, the latest edition to our family of The Most Advanced High Definition DLP Printers.

APEX 2K XHD



APEX 2K HD



APEX PRO 4K XHD

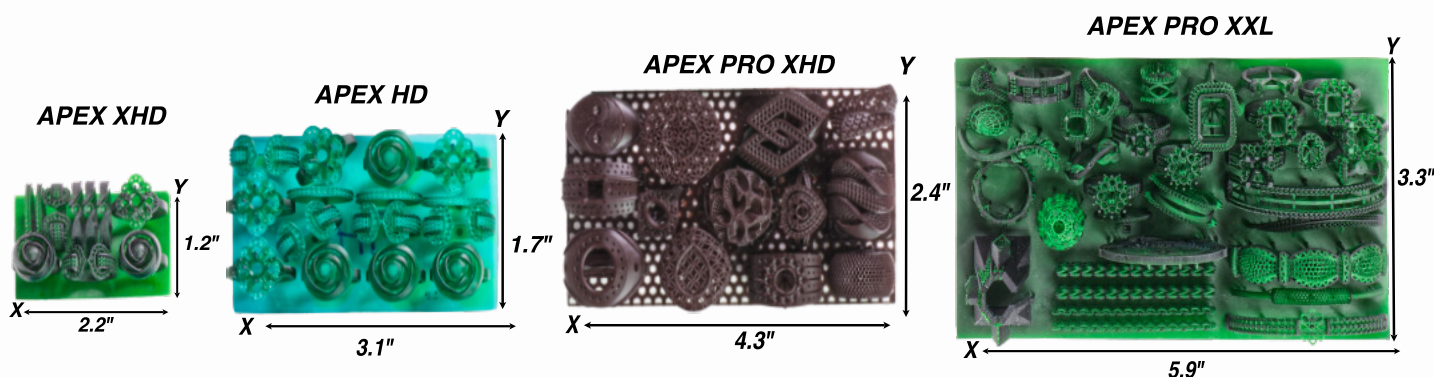


APEX PRO 4K XXL



ITEM	APEX XHD	APEX HD	APEX PRO XHD	APEX PRO XXL
Item SKU	78-6050	78-6080	78-60110	78-60150
Build Size L x W x H	57 x 32 x 120 mm (2.2 x 1.2 x 4.7 in)	80 x 45 x 120 mm (3.1 x 1.77 x 4.7 in)	110 x 62 x 120 mm (4.3 x 2.4 x 4.7 in)	150 x 84.5 x 120 mm (5.9 x 3.3 x 4.7 in)
Rings Per Build (Approx)	15	25	35	45
XY Resolution	30 μm	41.5 μm	40 μm	55 μm
LED	TRUE 2K (2.07 MP)		SUPER 4K (4.1 MP)	
Z-Layer Resolution	5 μm to 200 μm			
Wavelength (μm)	Standard: 405nm Optional: 385 nm wavelength are available for all configurations			
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: 19V DC / 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	

TIGER3D BUILD PLATES



Tiger3D APEX K Series

Professional 3D Printers



HIGH-SPEED 2K AND 4K DLP PRINTING MADE AFFORDABLE

Tiger3D APEX K Series 3D Printers offer the highest resolution available in a desktop 3D Printer, available in both 2K and 4K PRO and models. Whether you require high throughput or high quality, Tiger3D has a machine best suited to meet your production needs.

Packed with features like an all-new Windows based interface, Automatic Cleaning System, built-in Wifi and 20% faster printing speeds, Tiger3D APEX K Series is the quickest line to your business' production!

OUTSTANDING DETAIL

Tiger3D APEX brings your designs from computer to print, reproducing every single detail with the utmost precision.

CASTING PERFECTION

Our selection of castable resins enable your prints to be directly casted and formed into metal.

TIGER3D 3D RESINS

Tiger3D offers an array of photopolymer resins suitable for a variety of applications. From **castable resins** that produce low-shrinkage, high-precision parts that burn-out cleanly during the casting process, clear resins for **microfluidic studies**, **dental work** and **lab applications**, and black resins perfect for **prototyping** and **mold making**!

Resins cures at at standard 405µm, 305µm available.

	Description	Casting Qualities	Item #	Each
A.	Tiger3D Printer Resin: Jade 500g	Fine Detail	78-5002G	\$159.30
B.	Tiger3D Printer Resin: Burgundy 500g	High Wax Content	78-5002A	\$149.95
C.	Tiger3D Printer Resin: Evergreen 500g	Low Expansion	78-5002GC	\$149.95
	Description	Casting Qualities	Item #	Each
D.	Tiger3D Printer Resin: Black 1kg	Firm and Strong	78-5004A	\$359.00
E.	Tiger3D Printer Resin: Clear 1kg	Very Low Viscosity	78-5011	\$449.00



Tiger3D Printers are enabled to process FDA, TFDA and CE approved materials.

Class I and Class II materials are available for aligners, dentures, prosthetic, orthodontic, retainers, trays, gingiva, etc.

CASTABLE RESINS



RESEARCH & MEDICAL RESINS





Tiger3D APEX K Series

Professional 3D Printers



78-5600



MULTIPLE APPLICATIONS

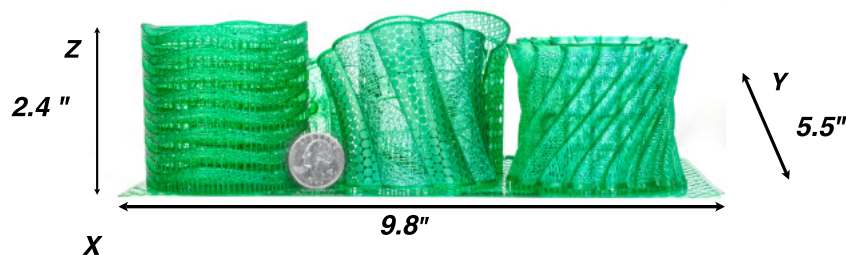
Tiger 3D printers offer high speed, cost effective benchmarks used in the study of microfluidic applications. Our DLP technology ensures precise fluid separation and counting.

The **Tiger3D APEX 8K MAX** series is the largest, most powerful resin 3D printer Tiger3D has to offer. Created for the individual that demands maximum resolution and maxim throughput for their daily production needs powered by a new 8K projector that delivers the highest resolution to print performance, layer by layer on the largest build plate Tiger3D has to offer. Print true-to-scale scale 3D models up to 190mm in height with pin-point accuracy. Thanks to Tiger3D's open source system, you can print your files using any 405 μ m resin of your choice.

FEATURES & BENEFITS

- Dual Projectors with full HD resolution
- Square printing area enables more printing volume
- Fastest 3D printing speeds offered through "Single Pixelized Entire Layer Exposure" (>2cm/hr@100 μ m)
- Utilizes superior high resolution UV light engine resulting in sharp details and smooth surfaces.

TIGER3D APEX 8K - XXL

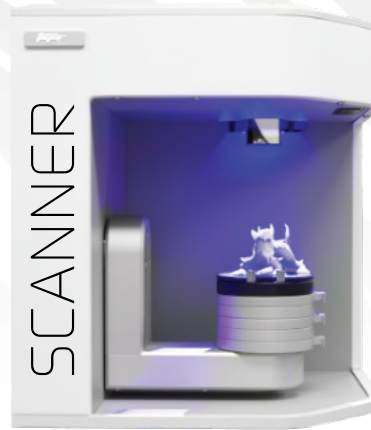


Specifications:	Tiger 8K MAX XL	Tiger 8K MAX XHD
Part Number	78-5600	78-5700
Net Build Volume	9.8" L x 5.5" W x 7.8" H	4.75" L x 2.7" W x 7.8" H
XYZ Resolution	65 μ m	30 μ m
Electrical	100~240V AC, 2A, 50hz/60hz	
Weight	573 lbs	
Dimensions	32" L x 31" W x 78" H	

Tiger3D APEX 3D Scanners



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 Tiger3D APEX 1.4MP and the Tiger3D APEX PRO 6.4 MP resolution, with a 2- axis arm. Users can perform multi-angle scans which reduces the noise of scan data and minimizes blind spots. The advanced Tiger3D softwares provides a step-by-step process with its key features represented by intuitive icons.



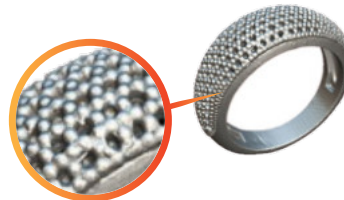
78-7064



78-7013

RAPID HIGH-QUALITY SCANNING

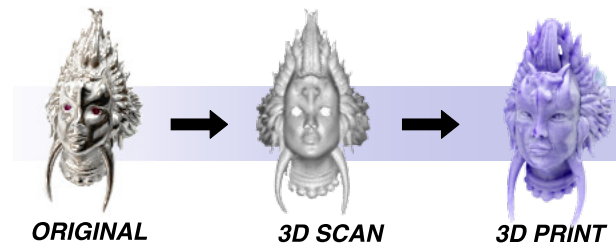
Tiger3D APEX Scanners are the ideal solution for jewelry and other industrial applications. Commonly used for matching a lost earring, creating an STL file of an organic object, scanning a faceted stone for remounts, creating bridal sets, product development and reverse engineering.



Tiger3d APEX Scan showing exceptionally fine detail and accuracy

EASY-TO-USE SOFTWARE

Both scanners feature an intuitive user interface, 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	APEX PRO Scanner
Part Number	78-7013	78-7064
Camera Resolution	2 x 1.4 MP	2 x 6.4 MP
Point Spacing	0.06mm	0.029mm
3D Scanning Area (Field of View)	100mm	
3D Scanning	Principle Phase Shifting Optical Triangulation	
Light Source	White LED	Blue LED
PC Requirements	CPU: Intel i5 or above Ram: 8GB or more GPU: Nvidia Geforce 1060 2G or higher O/S: Windows 8 64 bit or above	CPU: Intel i5 or above Ram: 8GB or more GPU: Nvidia Geforce 1060 2G or higher O/S: Windows 8 64 bit or above

Scanned using the Tiger3D APEX PRO Scanner, this high- res file seamlessly went from scanner to printer in a matter of minutes.



TIGER3D SCANNING SPRAY

Tiger3D Scanning Spray 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 #
Tiger Scanner Spray 13.5 fl.oz.	78-7028



79-600

The Yasui VCC features an exclusive “double jointed 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 backfills 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 1/3 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:

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

Thermal control with high accuracy is possible by the optic thermal controller.



Double Swing Arm

By the originally-developed Yasui “Double Swing Arm”(Japan Patent No. 3178748), the molten metal can be poured into the mold straight without loss. Improvement of filling efficiency, metal density and substantial reduction of metal loss has been realized.

Yasui Fuji Premium Platinum Investment With New Powder Binder



The new Yasui Fuji investment no longer requires a Haz-Mat liquid binder, now the binder is in powder form. One carton of Yasui platinum investment will yield approximately 165 standard size 3" x 3" steel flasks. Burnout range: 702°-980°C (1300°-1800°F)

Description	Item #	Price
Yasui Fuji Powder 25.5kg Kit	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. Available in 1-gal and 5-gal containers.

Description	Item #	Price
A. 1 Gallon	80-137-1CAR	\$79.00
B. 5 Gallon	80-137-5CAR	\$289.00

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 precise 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 13+	RBF #21	RBF #37+
Part Number	77-0146	77-021	77-014
Number of Flasks (Without Flange)	13 (Dia. 3.9") 15 (Dia. 3.5") 19 (Dia. 2.9")	21 (Dia. 3.9") 32 (Dia. 3.5") 41 (Dia. 2.9")	37 (Dia. 3.9") 45 (Dia. 3.5")
Max Flask Height	9"	9"	9"
Power	220V, 50/60Hz, Single Phase 6K VA	380V, 50/60Hz, Three Phase, 18K VA	380V, 50/60Hz, Three Phase, 25.6K VA
Burnout Temp.	Max. 950°C (200°C- 950°C 19 minutes)		Max. 850°C
Turntable Dia.	13" x 2 Tables	15.8" x 2 Tables	21.8" x 2 Tables
Dimensions (Including After Burner & Control Box)	33" L x 28.5" W x 80" H	32.5" L x 37.5" W x 78.5" H	42" L x 42.5" W x 85" H
Applications	Gold, Platinum & Stainless		Gold

Save Time and Gold

Engineered to provide a complete vacuum atmosphere, the K2 NEXT 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



K3UP with optional shotmaker

79-300-K3UP

K2 NEXT

79-300-K2-10

Specifications:

	K3 UP	K2 NEXT
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
Replacing Gas	Single Gas (Argon)	
Program Memory	100 memories	
Control	Specially designed microprocessor control. Temperature control by PID with accuracy of +/-2 degrees centigrade.	
Heating	Induction heating (with specially designed metal stirring function).	
Oscillation Power	4KW	5kw (79-300-K2-5KW) or 10kw (79-300-K2-10)
Cooling Water	Tap water direct cooling system more than 3L/min, more than 0.15MPa, less than 30°C	Tap water direct cooling system more than 3L/min, more than 1.5kgf/cm2, less than 30°C
Flask	Flask is elevated by the gas cylinder to secure tight gas sealing	
Max Flask Size	125mm dia. x 230mm (H)	Standard: 125mm dia. x 230mm (H); Optional: 125mm dia. x 300mm (H)
Crucible Volume	90CC	158CC (5KW) to 242CC (10KW)
Max Casting Amount (Volume)	60CC	100CC (5KW) to 150CC (10KW)
Max Casting Amount (Weight)	24K: 1.2 Kg, 18K: 0.9 Kg, 14K: 840g, 925 Ag: 600g	24K: 2.0 Kg, 18K: 1.55 Kg, 14 K: 1.5 Kg, 925 Ag: 1.0 Kg (5 KW) 24K: 3.0Kg, 18K: 2.3 Kg, 14K: 2.1 Kg, 925 Ag: 1.5 Kg (10KW)
Shot Maker	Option (Shot Maker SM3)	Option (Shot Maker SM1)
Data Output	USB memory (2-16GB)	
Max Temp	1200°C	1200°C (K-Type) 1300°C (5KW) and 1450°C (10KW) (R-Type)
Ultimate Vacuum	0.1 to 10hPa (depends on the vacuum pump) High mesh, replaceable from the front panel	
Vacuum Filter		
Power Source	AC380V +/-10%, 50/60Hz 3 phase, 5.5KVA	380V +/-10%, 50/60Hz 3 phase, 6.5KVA (5KW), 12KVA 10KW
Net Weight	Approx. 190Kg	Approx. 250Kg

Prime & Altima

Digital Vacuum Wax Injection Systems



Prime & Altima Benefits & Features

- Large clamp compared to previous generation
- Unlimited Mold Memory
- Easy adjustable Z-axis manually
- Capable of eliminating shrinkage and model distortion
- Equal weight of wax
- Increased productivity and easy to operate
- Optional RFID tags and reader are available
- New operators can start working from day one with already stored parameters
- Strong machine for heavy production
- Quality wax patterns can eliminate time consuming retouches, repairs and eliminate air bubbles
- Auto preheating
- X-Y clamp movement for accurate clamp pressure point
- Simple to check the parameters

Unique Altima Features

Smart Wax Production System: Provides a drastic improvement to previous wax injection production capabilities. Thanks to its specially designed operating system, storing, recalling, and sharing the best parameters for thousands of rubber molds is one simple touch away.

Elastic E-Clamp: Automatic height control, (patent pending), the nozzle perfectly meets the rubber mold, providing the most accurate and consistent result. The adjustable clamping pressure point ensures the appropriate amount of pressure is applied, preventing wax leakage during injection.

Perfect Wax: Precise injection eliminates misfiling and flashes while reducing shrinkage. Improved wax injection speed and accurate wax flow control ensure high repeatability, which is essential to maintain a constant wax weight and top-quality results.

WaxNet™: Efficiently share and store thousands of rubber molds, amongst workstations, using the WaxNet Database. This cloud-based data repository is controlled, in-house, and safely managed and shared by designated members of your team. In addition to sharing files amongst workstations, WaxNet gives you the ability to monitor production and productivity levels.



Specifications:

Yasui Prime D & Altima

Part Number	74-269A & 74-265-SYS
Power	230V, 50/60 Hz Single Phase
Wax Capacity	Approx. 3.5 kg
Temperature (Display and Set) Range	104°F - 212°F (40°C -100°C)
Maximum Rubber Mold Size:	
Prime Clamp L x W x H	3.1" x 3.9" x 1.9"
Altima Clamp L x W x H	4.9" x 5.9" x 3.1"

Yasui Mold Reader

The new Yasui mold reader system uses RFID Technology (Radio Frequency Identification) to program small microchips that are embedded into the rubber molds. This new technology allows the operator to program the correct parameters for each specific mold; including mold clamping and forward pressure, hold and vacuum time, and primary and secondary injection time.



Description

Yasui Mold Reader

Item

74-266-ICR

Burn-out Furnaces

Romanoff Super Blue Automatic Furnaces

Romanoff Super Blue automatic furnaces are ideal for enameling silver, clay, glass jewelry, ceramics, porcelain, and lost wax casting processes. These automatic furnaces come with the Sentry Xpress digital controller, allowing for up to 4 saved programs with 8 steps. Furnaces will automatically shut off heat when door is opened and resume when closed. Has alarm when set temp is reached. Made in USA. 220V Available.



A. - B.



The exclusive Sentry Xpress digital controller mounted in the kiln base allows the operator to easily maintain furnace temperature, programs and steps.



C.

Description	Item #	Each
A. Super Blue Automatic Furnace, 5.75" x 6.25" x 6"	77-0924-A	\$1,249.00
• Voltage: 110V	• Approx. Ship Weight: 37 lbs	
• Amps: 12	• Outer Dimensions: 11" x 14.25" x 16.75"	
• Max Temp: 2300°F	• Watts: 1440	
• Flask Capacity: 2 ea. 3x4" Solid Flasks	• Total Cubic Ft: 0.14'	

Description	Item #	Each
B. Super Blue Automatic Furnace, 8.5" x 8.75" x 9"	77-0911-A	\$1,397.51
• Voltage: 110V	• Approx. Ship Weight: 80 lbs	
• Amps: 14	• Outer Dimensions: 14" x 17 1/2" x 19 3/4"	
• Max Temp: 2250°F	• Watts: 1680	
• Fire Flask Capacity: 2 ea. 4 x 8 1/2" Perforated Flasks	• Total Cubic Ft: 0.39'	

Description	Item #	Each
C. Super Blue Automatic Furnace, 8.5" x 9" x 12"	77-0907	\$1,748.00
• Voltage: 110V	• Approx. Ship Weight: 81 lbs	
• Amps: 19	• Outer Dimensions: 14" x 22.5" x 20"	
• Max Temp: 2000°F	• Watts: 2280	
• Flask Capacity: 3 ea. 4 x 8.5" Perforated Flasks	• Total Cubic Ft: 0.53"	



D.



E.



F.

Description	Item #	Each
D. White Non-Asbestos Glove, Pair 14"	78-090	\$41.90
E1. Yellow Non-Asbestos Gloves, Pair 14"	78-090-YL	\$42.00
E2. Yellow Non-Asbestos Wool Lined Glove, Pair 14"	78-091	\$58.15
F1. Yellow Non-Asbestos Glove, RIGHT Glove Only, Leather Palm 18"	78-0902-WRG	\$49.95
F2. Yellow Non-Asbestos, LEFT Glove Only, Leather Palm 18"	78-0902-WLG	\$46.75
F3. Yellow Non-Asbestos Glove, Leather Palm, Pair 18"	78-0902-WLP	\$73.34

Burn-out Furnaces



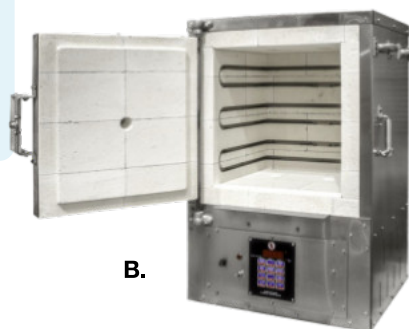
Romanoff Stainless Steel Programmable Burn-Out Furnaces

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.



A.

Description	Item #	Each
A. Medium Programmable Burn-Out Furnace	77-0913	\$2,802.00
• Amps: 13	• Outer Dimensions: 18" L x 21 ½" W x 21 ½" H	
• Max Temp: 1700°F	• Volts: 240	
• Fire Chamber Opening: 13" L x 13" W x 9" H	• Watts: 3000	
• Flask Capacity: 4 ea. 4" x 6" Solid Flasks	• Total Cubic Ft: 0.88"	
• Approx Ship Weight: 165 lbs		



B.

Description	Item #	Each
B. Large Programmable Burn-Out Furnace	77-0914	\$3,395.00
• Amps: 16	• Outer Dimensions: 19" L x 22" W x 27" H	
• Max Temp: 2000°F	• Volts: 240	
• Fire Chamber Opening: 14" x 14" x 14"	• Watts: 3430	
• Flask Capacity: 8 ea. 4 x 6" Perforated Flasks	• Total Cubic Ft: 1.59'	
• Approx. Ship Weight: 265 lbs		



C.

Description	Item #	Each
C. Extra Large Programmable Burn-Out Furnace	77-0918	\$3,915.00
• Amps: 22	• Outer Dimensions: 24" L x 27" W x 31" H	
• Max Temp: 1700°F	• Volts: 240	
• Fire Chamber Opening: 18" x 18" x 18"	• Watts: 4840	
• Flask Capacity: 15 ea. 4 x 6" Perforated Flasks	• Total Cubic Ft: 3.37'	
• Approx. Ship Weight: 315 lbs		



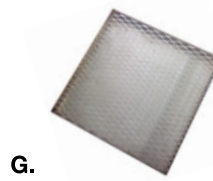
D.



E.



F.



G.



H.

Description	Item #	Each
D. Replacement Thermocouple for Romanoff Programmable Furnaces	77-0918-TC	\$98.85
E. Relay For Romanoff Programmable Industrial Burnout Furnaces	77-0918-015	\$64.95
F1. Replacement Heating Element for P/N 77-0913, Furnace Dimensions 13" x 13" x 9"	77-0913-HE	\$245.26
F2. Replacement Heating Element for P/N 77-0914, Furnace Dimensions 14" x 14" x 14"	77-0914-ELEM	\$325.96
F3. Replacement Heating Element for P/N 77-0918, Furnace Dimensions 18" x 18" x 18"	77-0918-ELEM	\$395.15
G. Stainless Steel Wax Drip Tray 12" X 12" X 3/4" up to 1450°F	77-0020	\$89.45
H. Stainless Steel Wax Drip Tray With Removable Grate 17"X17" up to 1450°F	77-0918-11	\$277.55



KWS Investment 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	76-3001	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



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 and other alloys
A2. Ransom & Randolph Ultra-Vest: Drum	Z14-301	100 lbs	1400°F (760°C)	Gold, silver, brass, bronze and other alloys
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	100lbs	1450°F (788°C)	18kt White Gold
C. Ransom & Randolph Plasticast PT: Box With ½ Gallon Binder (Non-Hazmat)	Z14-304-PT44	44lbs	1600°F (871°C)	Platinum and other high temp alloys
D. Ransom & Randolph Plasticast: Box	Z14-304-40	44 lbs	1400°F (760°C)	CAD/CAM resins, or wax/plastic pattern materials
E. Ransom & Randolph Plasticast Bandust: Box	Z14-304-BD	44 lbs	1400°F (760°C)	CAD/CAM resins, or wax/plastic pattern materials
F. Ransom & Randolph Solitaire: Box	Z14-303-44	44 lbs	1166°F (630°C)	Cast gemstones in place
G. Ransom & Randolph Astro-Vest: Box	Z14-306-44	44 lbs	1600°F (871°C)	Platinum and other high temp alloys
H. Satin Cast 20: Drum	76-106-NY	100 lbs	1350°F (730°C)	Gold, silver, and all other non-ferrous metals
I. Satin Cast Xtreme: Drum	76-106-X	100 lbs	1450°F (788°C)	18kt White Metals
J1. Romanoff Fast Cast Kit With 25oz of Pre-Mixed Binder	Z14-305-FC	6.6 lbs	1600°F (871°C)	Platinum and other high temp alloys
J2. Romanoff Fast Cast Kit With 80oz of Pre-Mixed Binder	Z14-305-FC25	25 lbs	1600°F (871°C)	Platinum and other high temp alloys
K. J-Formula Platinum Investment - White Binder: Box	Z14-305-50J	45 lbs	1600°F (871°C)	Platinum and other high temp alloys
L. J-Formula Platinum Investment - Orange Binder: Box	Z14-305-606A	45 lbs	1600°F (871°C)	Platinum and other high temp alloys
N. J-Formula "606" Blue Label Binder Investment: Box	Z14-305-606C	45 lbs	1600°F (871°C)	Platinum and other high temp alloys
O. Original White Label J-Formula Binder Only	Z14-305-16J	16 oz bottle	---	---
P. Orange Label J-Formula Binder Only	Z14-305-16J1	16 oz bottle	---	---
Q. Blue Label J-Formula Binder Only	Z14-305-16J2	16 oz bottle	---	---



St.Louis Investment Mixers

Heavy Duty Stand Alone Mixers



76-113-MINI

76-113-4KG-P

76-115

76-115-P

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	6/10m ³ (5-CFM)	6/10m ³ (8-CFM)	6/10m ³ (10-CFM)	18m ³ (10-CFM)

St.Louis Investment Mixers

Heavy Duty Stand Alone Mixers



76-114 / 76-114-14XL



76-130



76-131

With optional side rollers
and scale

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	220V 1-ph	220V 1-ph + 380V 3-ph	220V / 380V
Weight (Unpacked)	462 lbs	352 lbs	346 lbs/ 507 lbs (w/ side rollers and scale)
Suggested Vacuum Pump Size	40/50m ³ (21-CFM)	100m ³ (21-CFM)	100m ³ (21-CFM)

Vac-U-Vest Investment Mixers

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

Platinum Mixer



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
- Allows the full advantages of using casting technology to be released

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:

Part Number	76-2000-RM	76-2001-RM	76-2002-RM12	76-2005-RM	76-2003-RM
Model	Vac-U-Vest #3	Vac-U-Vest #5	Vac-U-Vest #12	Vac-U-Vest #15	Vac-U-Vest #25
Power	220V Single-Phase 60Hz				220V Three-Phase 60Hz
Pouring Valves	1				2
Investment Capacity	6.6 lbs Dry Powder	11 lbs Dry Powder	26.5 lbs Dry Powder	33 lbs Dry Powder	55 lbs Dry Powder
Inner Chamber Diameter	10"	10.75"	14"	15.5"	21"
Maximum Flask Height	6"	9"	9"	10.25"	10"
Machine Dimensions	17" L x 14" W x 36" H	26" L x 20" W x 33" H	27" L x 31" W x 61" H	28" L x 31" W x 61" H	42" L x 36" W x 62" H
Suggested Vacuum Pump	3 CFM	10 CFM	15 CFM	15 up to 28 CFM	28 up to 45 CFM
Shipping Weight	121 lbs	277 lbs	510 lbs	510 lbs	1070 lbs

Romanoff Table-Top 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
- **Plate Size:** 8" W x 5" D
- **Max Temp:** 550°F (288°C)
- **Opening Max:** 2 3/4"
- **Dimensions:** 15" W x 8" D x 18" H
- **Weight:** 39 lbs

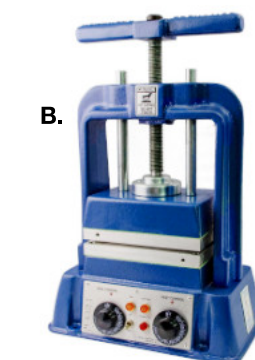
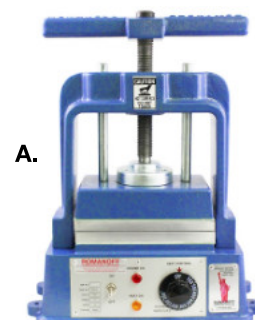
Description	Item #	Each
A. Standard Table-Top Vulcanizer 110V	73-047	\$795.00

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

Description	Item #	Each
B. Deluxe Dual Thermostat Table-Top Vulcanizer - 110V	73-002-D	\$1,089.00



Romanoff 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 1/3 qt

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

Description	Item #	Each
C1. Mini Wax Injector 1 1/3 Qt 110V	73-040	\$473.00
C2. Mini Wax Injector 1 1/3 Qt 110V With Hand Pump	73-040-HP	\$609.00
C3. Wax Injector Hand Pump Only	74-057-PMP	\$167.00



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	\$578.00

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 110v	74-057	\$748.20



Pricing Subject to Change

Wax Injecting

21

Tabletop Casting Machines

MC Series

The **MC Series** was developed to provide jewelry designers, goldsmiths, research and development departments and dental laboratories with a low price yet highly professional casting machine. The most important aims were: extremely short processing time and mold manufacturing to completed casting; simple, safe operation; high quality and, above all, reproducible casting results; and low operating costs. The overwhelming global success of the MC Series in numerous industries, including some not originally envisaged - emphatically confirms the MC Concept.

MC16



78-2050

Multi-Purpose Machine

This machine features a precise thermocouple temperature measurement of gold & silver. Allows for small-batch Platinum and Steel casting.

Using Vibration

The use of vibration technology ensures better form filling, creating casts with greater, more consistent densities, higher elasticity and greatly reduced porosity. Vibration technology is a compelling alternative to the frequently used and relatively delicate centrifugal systems, especially when casting platinum or palladium.

MC20V



78-2100

High-quality machines, high-quality results

Quality form filling using overpressure of up to 2 bars (casting under vacuum also possible). The machine can also be used to cast rolling blanks for platinum processing in copper molds.

MC60V



78-2200V

Specifications:

	MC16	MC20V	MC60V
Maximum Power / Electrical	3.5 KW 230V single phase		
Maximum Melting Temperature	2000° C	2000° C (via an optical pyrometer)	1300° C
Crucible Capacity	100 g Gold 18ct 110g steel / 200g Platinum		450g Gold 18 ct 300g Silver 935
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 Overpressure After	-1 up to +2 bar		
Function Washing by Inert Gas	Standard		
Dimensions (L,W,H) and Weight	15.7" (D) x 17.7" (W) x 15.7" (H) 59.52 lbs		15.7"D x 17.7"W x 17.7"H 70.54 lbs

Tabletop Casting Machines

MC Series



MC100V Tabletop Induction Casting Machine with Vibration Technology provides cutting-edge technology in a compact space. Very safe and easy to use. The MC100V is fully programmable and capable of reaching temperatures up to 2000°C utilizing a built-in 8 kW induction generator. Thorough mixing of molten metals using low-frequency induction power with inert gas, to prevent oxidation, will ensure quality castings in gold, silver, platinum and stainless steel.

Compact size for compact projects

Measuring under two feet in all dimensions and weighing just 60 lbs, this casting machine is perfect for tight spaces and an economical option for small to medium projects. An excellent solution for studios and goldsmith's workshop with limited space.

Easy, fast, and efficient

Equipped with a High-quality LCD display for easy programming. Quick shots by use of standard investment material in less than 4 hours, on "speed" investment material in less than 2 hours from wax piece to casting. The efficient use of consumable materials leads to cost savings over time.

Vacuum-controlled melting atmosphere

A feature shared amongst all MC machines, (MC16, MC20V, MC60V and MC100V) the vacuum-controlled melting atmosphere melts metal under vacuum or inert gas to prevent oxidation. Thorough through-mixing of molten metals using low-frequency induction tuning. 3.5-8 kW induction generator for quickly reaching the melting temperature.



MC100V

78-4500

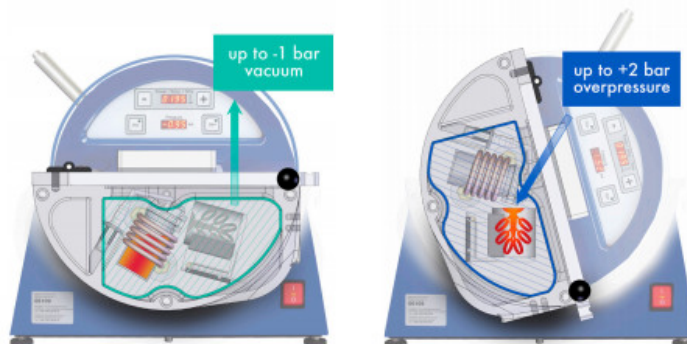
Operation of MC Machines

1. Fill the crucible with your metal.
2. Take the flask from the oven and insert into the machine. Touch the start button.
3. Pouring off takes place using a 90° rotation of the casting unit. After pouring, the MC series automatically switches to overpressure in order to maximize the density of your castings.

Specifications:

MC100V

Maximum Power/ Electrical	8 KW 3phase x 400V Step-up Transformer (78-4500-T208)
Maximum Melting Temperature	2000° C with optical pyrometer 1300C type N, 1400C type S thermocouple
Crucible Capacity	450g 18 kt gold 250g steel 500g platinum
Solid Flask Capacity	Up to ø 80 or 100 mm diameter x 120 mm length
Control Panel	LCD, full text readout
Auto. Vacuum/ Overpressure	Standard
Vacuum and Overpressure After	-1 to +3 bar
Function Washing by Inert Gas	Standard
Dimensions (L,W,H) and Weights	20in x 28in x 24in, 132lbs



MC16 / MC20V Deluxe Casting Kits

MC16 Kit
74-925



MC20V Kit
74-927



76-113-MINI



77-0911-A
(8.5" x 8.75" x 9")
(Inside Dimensions)

Item	Description	Each
1 74-925	MC16 Casting Kit 220V	\$21,299
2 74-927	MC20V Casting Kit 220V	\$25,578
3 76-113-MINI	St. Louis Mini Mixer 220V	Included
4 77-0911-A	Romanoff Super Blue Automatic Furnace 110V	Included

MC16/MC20V Starter Kit



1 76-047-1	Stainless Steel Flask 80 x 80mm	8 78-2004	Gold Crucible - 100g
2 78-2007	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 78-2002-PT	Thermocouple Protection Tube
6 78-2005	Stainless Steel Crucible - 100g	13 78-2002	Thermocouple Type N - 1300°C
7 78-2003	Platinum Crucible - 220g	14 78-2100-TG	80mm Flask Tongs

Casting Kit Products



1 Z14-305-606C	J-formula "606" Platinum Investment	7 74-006	Max Wax Speed Pen	13 74-000-WC	Platinum Wax Mushroom Base 5 Pack
2 Z14-301-40	Ransom & Randolph Ultra Vest Investment - 40lbs	8 79-0305	Maun Sprue Cutter 6.5" length	14a 76-109	3 Liter Measuring Pitcher
3 80-137-1CAR	J-Break Platinum Investment Remover	9 76-047-I	80 x 80mm Stainless Steel Flasks	14b 76-109-250ML	250ml Graduated Measuring Cylinder
4 7115A	3 CFM Vacuum Pump 110/220V	10 76-016-I	80mm Cone Style 8mm Sprue Base	15 76-113-3W	Vacuum Investment & Casting Machine 3 Way Valve
5 79-001	Hydro-Air Pressure Water Gun	11 76-0855	Non-Asbestos Paper Roll 2.5" x 1/16" x 75'	16 74-048-S	Stiff Wax Sprue Rods 6" x 3/8" - 45 rods/lb
6 76-110	Investment Scale 0-10 lbs	12 21.890-1	Adjustable Sprue Base Holder	17 76-0881-4RND	Non-Asbestos Paper Bases - 4" OD x 3.25" ID

MC60V Deluxe Casting Kit 74-931

Casting Kit Machines

Item	Description	Each
1 74-931	Indutherm MC60V Casting Kit 220V	\$26,682
2 76-113-4KG-P	St. Louis Mixer 4KG 220V	Included
3 77-0907	Romanoff Super Blue Automatic Furnace 110V	Included



77-0907
(8.5" x 9" x 12")
(Inside Dimensions)

76-113-4KG-P

74-931

MC60V Starter Kit



1 78-2007	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)

Casting Kit Products (Included)



1 Z14-301-40	Ransom & Randolph Ultra Vest Investment - 40lbs	7b 76-0661-I	Stainless Steel Flasks - 100 x 120mm
2 7119	10 CFM Vacuum Pump 110/220V	8 21.890-1	Adjustable Sprue Base Holder
3 79-001	Hydro-Air Pressure Water Gun	9a 76-109	3 Liter Measuring Pitcher
4 76-110	Investment Scale - 0-10 lbs	9b 76-109-250ML	250ML Graduated Measuring Cylinder
5 79-0305	Maun Sprue Cutter - 6.5" Length	10 76-113-3W	Vacuum Investment & Casting Machine 3 Way Valve
6a 76-016-I	80mm Cone Style 8mm Sprue Base (2ea)	11 74-048-S	Stiff Wax Sprue Rods - 6" x 3/8" - 45 rods/lb
6b 76-019-I	100mm Cone Style 8mm Sprue Base	12 78-090	14" Non-Asbestos Casting Gloves
7a 76-047-I	Stainless Steel Flasks - 80 x 80mm	13 74-006	Max Wax Speed Pen

MC100V Superior Casting Kit 74-929

MC100V Kit
78-4500



78-4500

76-115

77-0907
(8.5" x 9" x 12")

Casting Kit Machines

Item	Description	Each
1 74-929	Indutherm MC-100V Casting Kit	\$45,995.00
2 76-115	St. Louis Mixer 6KG	Included
3 77-0907	Romanoff Super Blue Automatic Furnace	Included

1 78-4507	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		

MC100V Starter Kit



Casting Kit Products



1 Z14-305-606C	J-formula "606" Platinum & Blue Binder - 45 lbs	10a 76-016-I	80mm Cone Style 8mm Sprue Base (2ea)
2 Z14-301-40	Ransom & Randolph Ultra Vest Investment - 40 lbs	10b 76-019-I	100mm Cone Style 8mm Sprue Base
3 78-090	14" Non-Asbestos Casting Gloves	11 21.890-1	Adjustable Sprue Base Holder
4 7119	10 CFM Vacuum Pump 110V	12 74-000-WC	Platinum Wax Mushroom Base 5 Pack
5 79-001	Hydro-Air Pressure Washer Gun	13a 76-109	3 Liter Measuring Pitcher
6 76-110	Investment Scale 0 - 10lbs	13b 76-109-250ML	250ml Graduated Measuring Cylinder
7a 76-047-I	80 x 80mmmm Stainless Steel Flasks (2ea)	14 76-113-3W	Vacuum Investment & Casting Machine 3 Way Valve
7b 76-0661-I	100 x 120mm Stainless Steel Flasks (2ea)	15 74-048-S	Stiff Wax Sprue Rods - 6" x 3/8" - 45 rods/lb
8 74-006	Max Wax Speed Pen	16 76-0855	Non-Asbestos Paper Roll - 2.5" x 1/16" x 75'
9 79-0305	Maun Sprue Cutter - 6.5" Length	17 76-0881-4RND	Non Asbestos Paper Bases - 4" OD x 3.25" ID (Pack of 20)

18: 80-137-1CAR

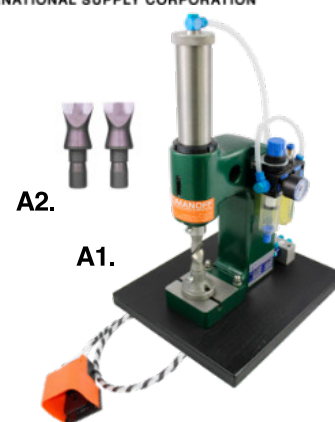
J-Break Platinum Investment Remover

Sprue Cutting

KWS Pneumatic Sprue Cutter With Foot Pedal

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

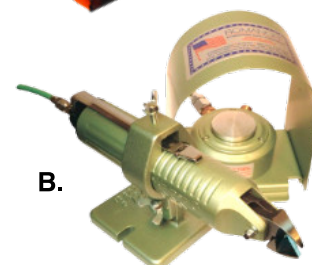
Description	Item #	Each
A1. KWS Pneumatic Spruce Cutter	79-062-G	\$4526.00
A2. Standard Two-Edge Cutting Blade	79-062-NC	\$299.00



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.

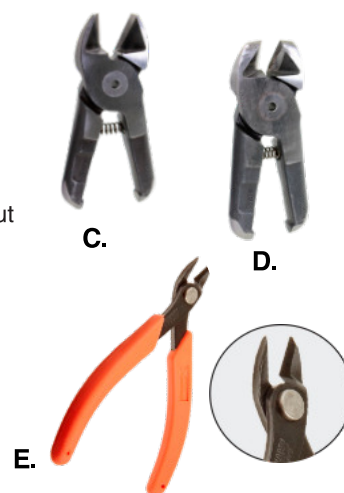
Description	Item #	Each
B. Niles #35 Pneumatic Sprue Cutter	Z16-532	\$629.00
C. Niles S7P Hard Steel Pointed Blade for #35 Cutter	Z16-533-4	\$149.65
D. Niles Z8P Carbide Blade for #35 Cutter	Z16-533-6	\$371.33



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.

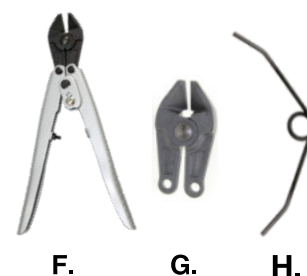
Description	Item #	Each (1-3)	Each (4+)
E. Maxi-Shear Orange Super Flush Cutter	P3-108-6R	\$17.75	\$16.95



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	79-064	\$159.00
G. Replacement 22mm Cutting Edge Blade	79-064A	\$129.00
H. Replacement Spring for Bergeon	79-064-SP	\$11.00



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



Vacuum Casting Machines

Semi-Automatic VC Versions

VC 400

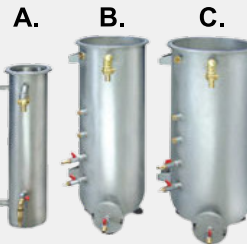
The ideal machine for smaller scale operations that produce moderate quantities but require considerably more capacity than what is offered by the MC machines. The VC 400, equipped with induction generator that guarantees rapid heat-up and thorough mixing of molten metal through inductive bath movement.

VC 500

For larger production quantities with continuous casting operation, the VC 500 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.

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

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

VC 400



Load your metal grain of choice into the casting chamber



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

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	170 ccm = 2.5kg Gold 18kt (Standard)	245 ccm = 3.6 kg 18kt Gold (Standard) or 386 ccm = 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

Turbo Pressure

Optimizes the casting of very small and filigree objects. For the production of jewelry it guarantees perfect results when casting with stones. Turbo Pressure allows a precisely defined pressure to be achieved rapidly. For all program-controlled VC models, depending on the selected program, the 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 650 V	VC 680 V
SKU	78-3300/ 78-3300-V	78-3400	78-4000	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)	12 kW 3 x 400V (1700° C)
Crucible Volume	170 ccm = 2.5kg Gold 18 ct*		245 ccm = 3.6 kg Gold 18 ct* 386 ccm = 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	---			Standard
Additional Gas Tank for Turbo Pressure Plus	---			Standard

Vacuum Casting Machines

For Large Casting Parts



VC 1000V



VC 3000V

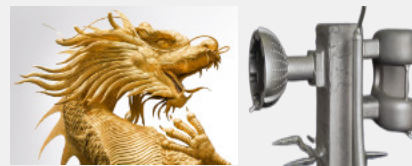


VC 12000V

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.

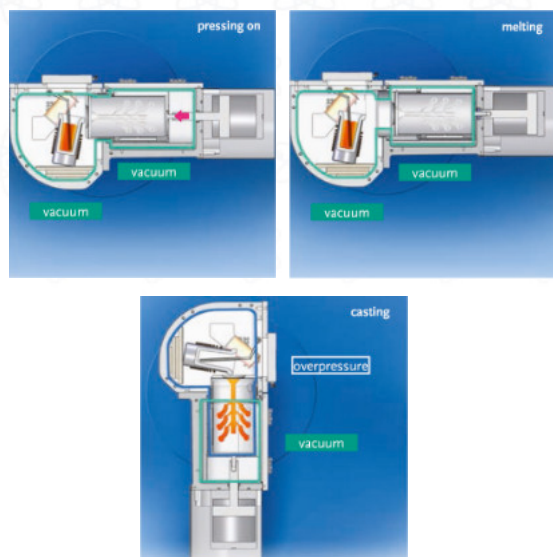
Specifications:

	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 machines are extremely versatile casting machines suitable for a wide range of applications and a number of options that were considered mutually incompatible up to now. Thus, 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			

Powder Atomization Plant

AU Series



Fast Small-Scale Metal Powder Production

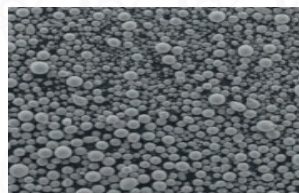
Indutherm Atomization Plants have been particularly designed for the flexible and economic production of small-scale metal powder batches that traditional, large-scale production plants simply cannot provide.

Frequently changing alloys in production require high cleaning efforts to avoid cross contamination. Particularly in R&D or precious metal powder applications small amounts of various kinds of powder are frequently required, often also new types of alloy powder not available on the market. Especially fast developing applications like SLM and MIM require more and more specialized metal powder.

AU Atomizer Series Advantages:

- Simple LCD-Display and control panel operation
- Flexible and economic production of small scale, high value metal powder batches, not feasible on larger existing plants
- Easy-to-clean concept: minimum metal loss and cross-contamination
- High powder over a particularly wide particle size range via flexible, modular usage of different atomization nozzles and hot gas atomization
- High process stability due to optimized nozzle systems
- Anti-oxidation features

Wide Spectrum of Alloys and Particle Sizes



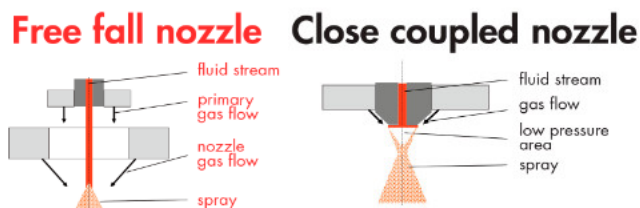
Ag-based solder alloy powder with an average particle size of ~60 µm

Blue Power atomizers are generally suitable for inert gas atomization of a wide spectrum of alloys, such as those based on Cu, Au, Ag or Sn (standard versions) as well as Fe, Co, Ni, Pd (high temperature versions). Inductive heating takes

place in graphite crucibles (up to 1,600° C) or in ceramic crucibles (up to 1,750° C, up to 2,000° C in development). Crucible volumes reach from 1,500 ccm to 12,000 ccm.

Adjustable Spray Nozzle

The modular availability of different atomization nozzles and the optional use of hot spray gas allow a wide range of specific metal powder characteristics and particle sizes. It is also characterized by an increased powder quality as a result of flow optimization in the spray chamber (avoidance of satellites).



Free Fall Atomization; CuSn10;

Atomization gas pressure $p_{\text{gas}} = 2 \text{ MPa}$;
Mass median diameter $d_{50,3} = 106 \text{ µm}$;
Geometric standard deviation $d_{84,3}/d_{50,3} = 1.6$;

Close Coupled Atomization; CuSn10;

Atomization gas pressure $p_{\text{gas}} = 2.4 \text{ MPa}$;
Mass median diameter $d_{50,3} = 35 \text{ µm}$;
Geometric standard deviation $d_{84,3}/d_{50,3} = 1.7$;

Specifications:

	AU 500	AU 1000	AU 3000	AU 12000
Crucible Volume in ccm	245-386	1,500	3,400	12,000
Volume in kg AU 18 ct	3.6-5.7	22.0	51.0	180.0
Generator KW (400 V)	10	25	30	40

Granulating Machines

GU Series

GU500



GU1000



GU12000



Intuitive Granulation Solutions

The Indutherm GU series “shotmakers” were developed specifically for the granulation of metal bullions into precise grains making them the ideal choice for frequent or permanent granule production.

Each GU series 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, of alloy components, of alloys from components and cleaning up of already cast metal.

Specifications:

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

Indutherm's **MU & MUV** series machines are flexible melting furnaces designed to melt gold and silver alloys as well as aluminum, bronze, brass, and platinum. The strong induction generator and low induction frequency provide excellent stirring of molten metal.

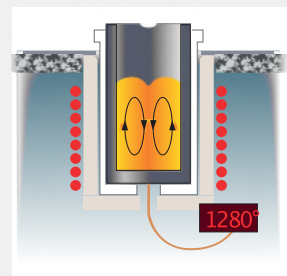
The MU and MUV Series melting machines can be used for various applications including the preparation of alloys out of gold and master alloy, the preparation of alloy components, the preparation of alloys from components as well as shot making from already casted metal. Once molten, the melted material is poured, by hand, into the casting mold or ingot mold. The MU and MUV series can accommodate crucible capacities ranging from 155 ccm to 1,200 ccm.

V Versions of the MU Series include one to two additional extra-large capacity vacuum chambers. Evacuating the flask immediately after pouring will improve the form filling, reduce porosity and prevent oxidation of the hot metal.

V Versions available in MU 200, MU 400 and MU 700.



MU 200C



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.



MUV 400

Specifications:

	MU 200	MU 400 / MUV 400	MU 700	MU 100C	MU 200C
Part Number	78-1200	78-1400 78-1400-V	78-1700	78-2700PT	78-1200C
Maximum Power/ Electrical Connection	3.5 kW (230V) or 6.0 kW (3x4000V)	10 kW (3x400V)	12 kW (3x400V)	8 kW (3x400V)	15 kW (3x400V)
Maximum Temperature	1300°C or 1500°C	1500°C		2000°C	
Crucible Volume	155cm = 2.0kg Gold 18ct	400cm = 5kg Gold 18ct	700cm = 8.5kg Gold 18ct	50ccm= 1kg Platinum	155 ccm =2.5kg Platinum
Temperature Measurement	Thermocouple			Optional Pyrometer	
Temperature Control	Standard				
Temperature Programs	20			16	
Interface R2 232 Diagnostic System	Standard				

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

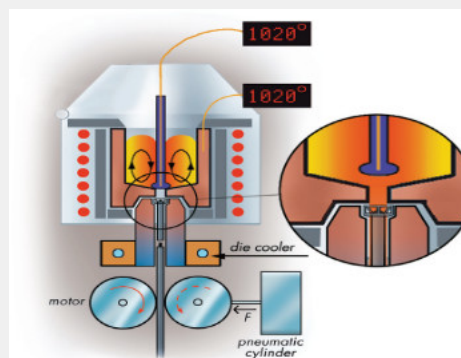
More Flexibility, Lower Costs

Indutherm continuous casting machines help you reduce production costs without sacrificing quality. Under the operation of only one machine, alloys or semi-finished products can be cast, in different shapes and sizes, quickly and with exceptional precision. Produce wires or bars, in every diameter you need, up to 40mm (CC 3000), sheets and strips, for ring production, stamping and pressing as well as sections of tube, ideal for wedding ring production.



Main 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		

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 Type	Max Temp	Crucible Capacity	Power (Absorbed)	Dimensions	Weight	Price
A1. Induction Mini Melt Gold	79-1300	Water	1200°C	2kg Gold	230 +/- 10% (2.8 kW)	14 x 18 x 7 1/2"	31lb	\$4,500.00
A2. Induction Mini Melt Platinum	79-1400	Water	2000°C	50-250g Platinum	230 +/- 10% (2.8 kW)	14 x 18 x 7 1/2"	31lb	\$4,985.00



Romanoff Digimelt Melter- 1kg 18 Gold

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. Maximum temperature 1120°C / 2050°F. The approximate melting time from room temperature, is 25-40 minutes thereafter every 15 minutes for successive reheats.

Description	Item #	Dimensions	Voltage	Each
B1. Romanoff Digital Melter 1kg	8100	5" x 8.5" x 11"	110V	\$599.00
B2. Romanoff Digital Melter 1kg	8100A	5" x 8.5" x 11"	220V	\$632.00
C. Digimelt Removable White Lid	714A	--	--	\$42.50
D. Digimelt 1Kg Graphite Crucible	78-0380	35(id) x 115(ih) / 40(od) x 125 (oh) MM		\$25.75
E. Pliers-Style Handle Tongs	77-042-TONG	32" (length)	--	\$34.50



Electric Digimelt Melter- 3kg 18K Gold

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. Maximum temperature is 1100°C.

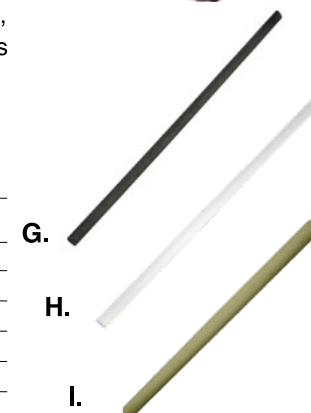
Description	Item #	Voltage	Capacity	Max Temp	Chamber Size	Wattage	Each
F1. Electric Digital Melter	77-042-M3D	110V	3Kg	1100°C	60mm x 150mm	1400W	\$789.00
F2. Electric Digital Melter	77-042-M3DA	220V	3Kg	1100°C	60mm x 150mm	1400W	\$799.00
F3. 3 Kg Italian Graphite Crucible	77-042-M3-C			55(ID) x 120(IH) x 68(OD) x 140 (OH) mm			\$47.95



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 up to 4-5 times longer than graphite, are non-conductive to electricity and are very popular for high-frequency melters. **Ceramic** rods are popular for melting platinum in induction melters for their high temperature resistance and non-conductive properties.

Description	Diameter	Item #	Each (1-5)	Each (6+)
G1. Carbon	12" L x 3/8" dia	78-084	\$6.69	\$6.36
G2. Carbon	12" L x 1/4" dia	78-089	\$4.12	\$3.91
G3. Carbon	12" L x 1/2" dia	78-085	\$7.29	\$6.93
G4. Carbon	12" L x 3/4" dia	78-086	\$11.29	\$10.75
G5. Carbon	24" L x 1/2" dia	78-0880	\$14.31	\$13.59
H. Quartz	12" L x 3/8" dia	78-028	\$9.15	\$8.69
I. Ceramic	9" L x 3/8" dia	Z15-719	\$7.95	\$7.55



Rotating Coil & Centrifugal Casting Machines



Rotating Coil System

79-7100/ 79-700



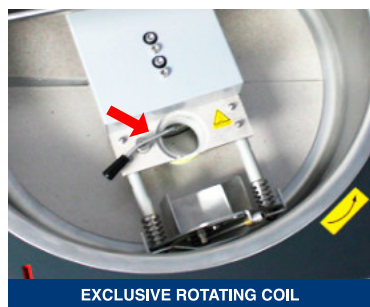
Rotating Coil System

79-700-DP2



Centrifugal Casting System

79-500-D1/ 79-500-D2



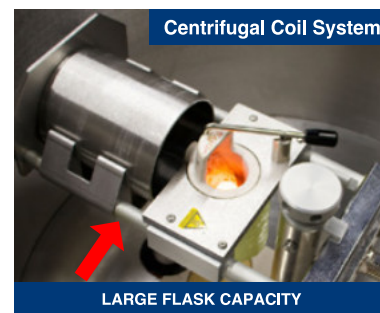
EXCLUSIVE ROTATING COIL



DUAL-SPECTRUM
OPTICAL PYROMETER
CONTROLLER

EXCLUSIVE ROTATING
COIL HEATING SYSTEM

NEW LCD
DISPLAY PANEL



Centrifugal Coil System

LARGE FLASK CAPACITY

Patented Rotating Coil System

The Induction Coil rotates with the arm and flask keeping the metal in liquid phase during the casting process, ensuring high quality parts with excellent repeatability. (Applicable to 79-7100, 79-700 and 79-700-DP2)

Vacuum-Controlled Melting Atmosphere

Built in vacuum pump and Argon gas circuit with programmable vacuum/argon washing cycles will prevent gas contamination of the metal during cool down.

Built-In Micro-Processor

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

Built-In Water Recirculating System

Built in water recirculating system eliminates the need for additional waterline installation. Simply plug the RCS in and begin casting.

Specifications:

	RCS 4 kW	RCS 5 kW	RCS 5kW- Dual-Spectrum Pyrometer	CCM 200	CCM 400
Part Number	79-7100	79-700	79-700-DP2	79-500-D1	79-500-D2
Rotating Coil	Standard			Fixed Coil	
Absorbed Power (max)	4 kW	5 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
Operation	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 (200kg)	

RCS Casting Kit 74-928



RCS Starter Kit



Description	Part Number	Each
Romanoff RCS Casting Kit	74-928	\$29,750

Casting Machine Specifications:

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

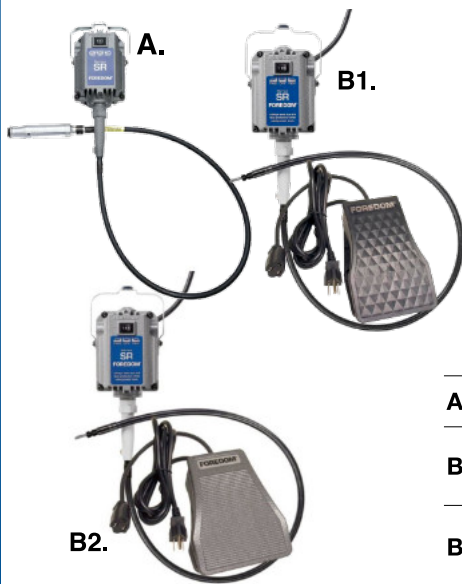
Item #	Description
1 n/a	Oil for Built-in Vacuum Pump
2 79-702-D	Gold Crucible (170g)
3 79-701	Platinum Crucible (200g)
4 n/a	Owner's Manual (USB)
5 n/a	Spacer for Flask Saddle
6 n/a	Tools
7 79-700-TONGS	Tongs for Flask

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 1/6HP motor is teamed up with either an SCT or an FCT foot pedal. Foredom's 1/6 HP, universal, flexible shaft machine runs in forward and reverse rotation at 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 (1-2)	Each (3+)
A. 110V SR Motor & Flex Shaft Only	71-101-M+S	\$189.95	\$186.95
B1. SR Flex Shaft Machine With FCT Foot Control & Reverse - 110V	71-101-1	\$249.60	\$239.52
B2. SR Flex Shaft Machine With SCT Foot Control & Reverse - 110V	71-101	\$259.00	\$252.00



Foredom 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 (1-2)	Each (3+)
C. SR Motor With H.20 Handpiece Flex Shaft System- 110V	71-092	\$373.36	\$365.85



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

Foredom's most popular and best motor for general use. The 1/6 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 (1-2)	Each (3+)
D. SR Motor With H.30 Handpiece Flex Shaft System- 110V	71-101-S	\$368.20	\$359.85



Micromotor Kit 1070- High Speed Rotary

For high speed applications up to 38,000 rpm including light deburring 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.

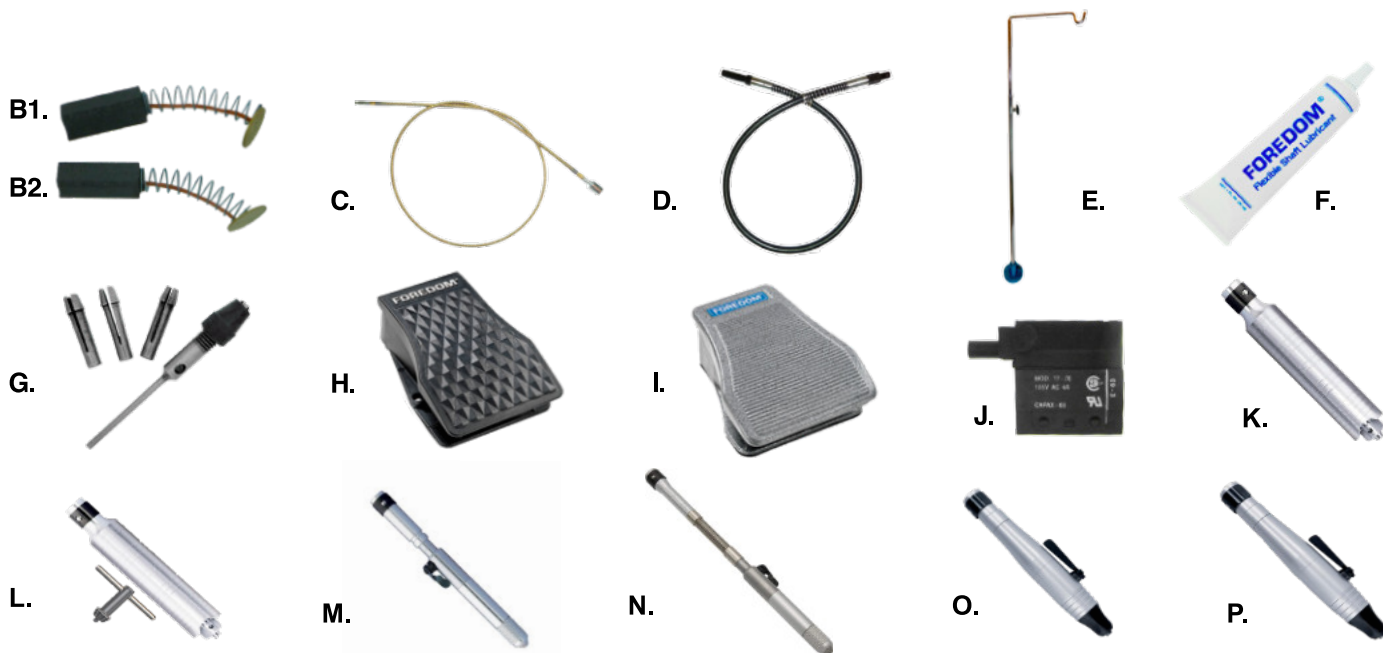
Kit includes

- Control box
- Hand-piece with 3/32" collet,
- Variable speed foot control
- Handpiece cradle
- Spare pair of motor brushes
- Spare fuse
- Collet changing wrenches

Description	Item #	Each
E. Micromotor Kit 1070 High Speed Rotary	71-630	\$399.00

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.

ACCESSORIES & HAND PIECES



	Description	Series/ Size	Item #	Each (1-2)	Each (3+)
B1.	Foredom Motor Brushes	CC, MM, DD	71-100-BR	\$7.70	\$6.95
B2.	Foredom Motor Brushes	H, SR, S, K	71-101-BR	\$11.00	\$9.95
C.	Inner Cable Shaft For Foredom Flex Shafts	R, CC	71-154	\$13.20	\$12.15
D.	Outer Cable Sheath For Foredom Flex Shafts	R, CC	71-155	\$16.95	\$14.50
E.	Adjustable Flex Shaft Holder	14"- 26" Height	71-150-ADJ	\$28.30	\$27.17
F.	Foredom Flexible Shaft Lubricant	1oz	71-183	\$6.75	\$5.50
G.	Adapter Drill Chucks / Mandrels : 0mm - 2.5mm	2.35mm / Shank: 3/32" Collets: 4 (0mm- 2.5mm)	89-491	\$8.90	\$8.19
H.	Foredom Plastic Housing Foot Pedal - 110V	FCT	71-153	\$38.48	\$37.90
I.	Foredom Cast Aluminum Foot Pedal - 110V	SCT	71-158	\$63.95	\$59.75
J.	Circuit Board Switch SCT Foot Pedal - 110V	SCT-1	71-158-TR	\$23.49	\$21.65
K.	Foredom Handpiece With Handy Chuck Key- USA	#30 HP	71-115-F	\$60.85	\$58.28
L.	Foredom Style Handpiece - Import	#30 HP	71-115	\$42.95	\$39.95
M.	Faro Quick Release Handpiece Without Spring	2.35mm/ Shank: 3/32"	71-122	\$189.95	\$178.60
N.	Foredom H.10D Handpiece With Duplex Spring Quick Change Lever	2.35mm/ Shank: 3/32"	71-121-FORD	\$289.00	\$282.79
O.	Romanoff Quick Release H.20X Import Handpiece With Lever- Import	2.35mm/ Shank: 3/32"	71-124	\$79.00	\$75.52
P.	Foredom Quick H.20 Lever Action Handpiece- USA	2.35mm/ Shank: 3/32"	71-122-F	\$95.68	\$92.15

Laser Engravers



FIBERLUXEL

Derived from the PRO series, the EL line 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. It is the ideal solution for everyone.



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



FIBERLUXPRO

Equipped with ytterbium-doped fiber optics and offering a low environmental impact and minimal maintenance, up to 50,000 hours of operation, the FiberLux PRO is the ideal laser for cutting and marking. The PRO can be used to mark objects of any metal and is ideal for engraving photographs, logos, trademarks and texts. Includes advanced SCAPS software.



Production Level	Medium to continuous
Engravable surfaces	Rings, bracelets, medallions, flat surfaces, watch faces, eyewear, etc.
Can Engrave Axis	Motorized Z-Axis
Layer Deep Relief	Yes
Camera	Yes (Optional)
Color on Steel and Titanium	Yes
Drag Clamp Control	Yes
Scanner Detection	Yes (Optional)
Software	SCAPS (Scanner Application Software)
Stand	Yes (Optional)
Integrated PC With Software	Yes (Optional)
Marking & Cutting	Yes
Output Power	30W, 50W, 70W & 100W Available



FIBERLUX3D

Engrave tilted, convex and spherical objects with ease using the FiberLux 3D. The intuitive supplied software allows for precise and efficient setup and production. The FiberLux 3D can be used to mark any metal object, engrave photos, logos, trademarks and text with surface unevenness up to 35 mm. Includes advanced SCAPS software.



Features	Same features as the FiberLux PRO
Production Level	Medium to continuous
Engrave On	Rings, bracelets, medallions, flat surfaces, watch faces, eyewear, uneven surfaces with up to 35 mm irregularity and curved surfaces
Software	SCAPS (Scanner Application Software)
Output Power	20W, 30W, 50W, 70W & 100W Available



Laser Engravers



FIBERLUX NANO

The FiberLux Nano is 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 (gold, silver, steel, etc.).

In addition to the engraving and cutting of logos, brands, photo-engraving, texts, and graphic designs, the 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

ENGRAVING



Engrave text, logos, images and more on a variety of metals. With the R Axis Rotation System, you can engrave the insides of rings and other curved surfaces.

CUTTING



Cut nameplates and intricate pieces in minutes. The NANO's Intuitive software allows you to adjust, modify and create designs quickly and accurately.

PHOTO ENGRAVING



Laser engrave your most memorable moments on the metal of your choice.

CUTTING SPEED TIME CHART

*APPROXIMATE TIMES



Machine	Power	Circle Shape 15mm (OD)		Name Plate 50mm (L) x 10mm (W)	
		0.5mm	1mm	0.5mm	1mm
Gold Plate Thickness					
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

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 (Scanner Application Software)		Standard Software		SCAPS (Scanner Application Software)		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 MARKING AREA	60 x 60 mm / 16 µm		60 x 60 mm / 11 µm		60 x 60 mm / 16 µm		60 x 60 mm / 16 µm
FOCAL 160 MARKING AREA	110 x 110mm / 26µm		100 x 100 mm / 26µm				
FOCAL 210 MARKING AREA	160 x 160 mm		---				
SPEED OF GALVO HEAD	7000mm/s		5000mm/s	7000mm/s	6000mm/s		5000ms
MAX PULSE ENERGY & WAVE LENGTH			1MJ & 1064 nm				
MAX FREQUENCY	1000kHz		60kHz	100kHz	60KHz		



Pricing Subject to Change

ElettroLaser FiberLux Nano



Laser Welders

MASTER S



MEGA HIT

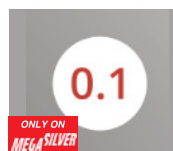


MEGA SILVER



IPM MICROSCOPE

Maintain control of key parameters
in view with IPM Feature!



0.1MM LASER SPOT FOCUS

Ideal for extremely
fine detailed work!

APPLICATIONS

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

BENEFITS

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

STANDARD FEATURES

- Pulse Frequency: 0.5 to 30 Hz
- Spot Setting: Motorized, 30 positions
- Wave Programs: Pulse Shaping 6 preset
- Memories Cell Stored: 100
- Internal Chamber Control: Joystick
- External Control: 7" Color Touch Screen
- Input Power: 110V (230V optional)
- Ampere: 10 A

WIDE WELDING CHAMBER



LARGE VIEWING WINDOW



10X LEICA STEREOMICROSCOPE



7" TOUCH SCREEN DISPLAY



SPECIFICATIONS

SKU	LZ-10100 / LZ-10130		LZ-60120/ LZ-6000		LZ-6010/ LZ-6015	
MACHINE	125	165	150	175	190	225
LASER SOURCE & WAVE LENGTH	1064 nm					
AVERAGE POWER	95W	100W	100W	100W	100W	
PEAK POWER	5 kW	6.5 kW	6kW	7.5kW	7.5kW	9kW
ENERGY	125J	165J	150J	175J	190J	225J
IMPULSE TIME	0.1 - 25 ms					
SPOT DIAMETER	0.2 to 2.0 mm				0.2 to 0.1mm	
COOLING SYSTEM	SINGLE		DOUBLE			

ElettroLaser 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
A1. MegaHit and Mega Silver	LZ-6000-STD	\$2,040.00
A2. Master S Series	LZ-6000-AT	\$2,040.00

A1-A2.

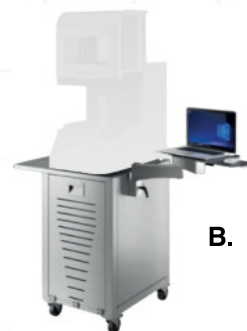


Engraver Stand

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

B.



XY Clamp

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

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

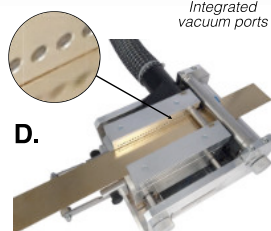
C.



NEW Drag And 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



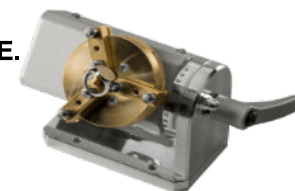
D.

R Axis Rotation System

The 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
E. R Axis Rotation System	RE-1000-1	\$1,592.00

E.



Camera for Laser Engravers

This Laser Engraver Camera allows the operator to preview the working area prior to laser engraving the job.

Description	Item #	Each
F. Digital Camera	RE-1000-6	\$599.00

F.

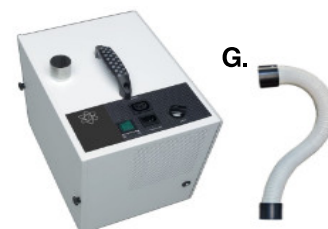


Deluxe Vacuum with Odor and Hepa Filter

The ElettroLaser Deluxe Vacuum with Odor and Hepa Filter was 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
G1. Deluxe Vacuum & Hose	RE-1000-15	\$1,116.95
G2. Deluxe Vacuum Replacement Filter	RE-1000-15F	\$103.00

G.



Romanoff Dust Collectors

Romanoff Cartridge Dust Collector

The Cartridge Dust Collector was designed to produce a 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	\$1,522.00
A2.		87-0125-F	Replacement Filter						\$259.00

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	Item #	HP	Person/s	Amps	Inlets	Dimensions	Power	Each
B1.	400	87-010	1/2	1-2	9	2	15" x 15" x 23.25"	110V	\$943.00
B2.	---	87-010A	Replacement Filter						\$305.00
C1.	1000	Z42-009-H	1	4-6	15	4	22.5" x 25" x 39"	110V	\$2,173.00
C2.	---	Z42-009-H2	Replacement Filter						\$513.00
D1.	1300	Z42-009-R2	3	4-6	20	6	28" x 28" x 61"	220V/ 3PH	\$3,941.00
D2.	---	Z42-009-R1	Replacement Filter						\$792.25



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, to loosen collected particles, each time it is shut off. This helps to keep the filter clean, ensuring maximum suction.
- Two-stage cartridge for high-efficiency filtration on both coarse and fine dusts.
- Compact, self-contained collector design allows placement flexibility and saves floor space.
- Recirculates filtered air saving heating and cooling costs.
- Vibra Shake cartridge filter features patented Pleatloc™ corrugation that assures 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 changeout 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-550	Z42-011	550	1	208,230V/3PH	2	25" x 31" x 53"
D2.	VS-1200	Z42-012	1200	3	208,230V/3PH	4 - 6	25" x 31" x 53"
D3.	VS-1500	Z42-013	1500	5	208,230V/3PH	6 - 8	25" x 31" x 53"
D4.	VS-3000	Z42-014	3000	7.5	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

Romanoff Polishing Stations



A1.



A2.

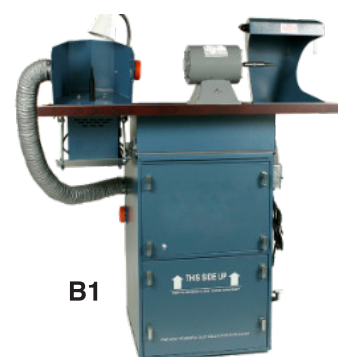


A3.

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	Item #	Polishing Motor	Dust Collector	Dimensions	Price
A1. 1100	87-006	1/2 HP	1 HP	48" x 24" x 43"	\$3,573.00
A2. 400	87-025	1/2 HP	1/2 HP	48"W x 24"D x 48"H	\$2,475.00
A3. 400	87-024	3/4 HP	1/2 HP	26"W x 24"D x 48"H	\$2,011.00



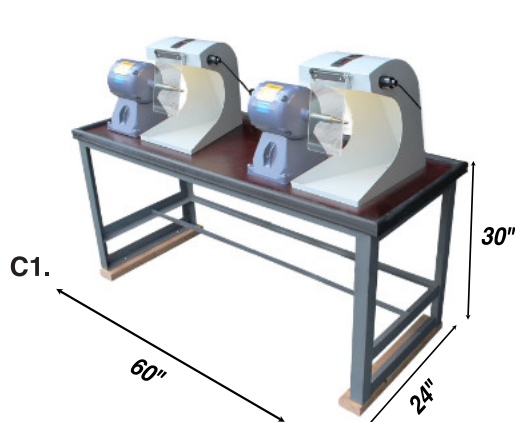
B1

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	Item #	Polishing Motor	Vacuum HP	Dimensions	Price
B1. 1000	Z42-366-E	3/4 HP	1 HP	48"L x 24"D x 30"H	\$3,399.00
B2. 400	87-009	3/4 HP	1/2 HP	24"W x 24"D x 48"H	\$1,649.00

Romanoff Built NYC Baldor Motor Polishing Tables



C1.



C2.



B2

Description	Item #	Voltage	HP	Each
C1. Polish/ Polish	Z42-025-1-D	110/ 220V- 1PH	1/2	\$2,320.00
C1. Polish/ Polish	Z42-025-1-A	220/380V- 3PH	3/4	\$2,267.00
C2. Polish/ Split Lap (Not Baldor)	Z42-025-1-E	110/ 220V- 1PH	1/2	\$2,320.00
C2. Polish/ Split Lap	Z42-025-1-B	220/380V- 3PH	3/4	\$2,267.00
D. Dust Collector Black Hose	87-017	Heavy Duty	--	\$109.00 (per 10ft)



D.

Polishing & Finishing



A.



B.



C1.



C2.- C3.



D.



E.



F.

Baldor Ramforce Polishing Motors

Known for their quality and heavy duty design. They require a tapered and threaded 5/8" spindle. The 1/2 and 3/4 HP models are extremely powerful and run efficiently. These heavy-duty, 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. Spindle not included.

Description	HP	Voltage	Item #	Each
A1. Baldor Right Hand	1/2	(110/220V, 1PH)	Z42-121	\$669.85
A2. Baldor Right Hand	3/4	(220/380V, 3PH)	Z42-131	\$621.85
A3. Baldor Left Hand	3/4	(220/380V, 3PH)	Z42-132	\$621.85

Right Hand 3/4HP 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	3/4	(110/220V, 1PH)	Z42-121-R	\$395.00

Spindles- Polishing Motors

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

Description	Item #	Each
C1. Right Hand Arbor & Flange, Screw-On	87-014A	\$39.95
C2. 6" Long, Screw-On Spindle w/ 5/8" Dia. Shaft - Right Hand	87-107R	\$22.80
C3. 6" Long, Screw-On Spindle w/ 5/8" Dia. Shaft - Left Hand	87-107L	\$22.80

Adjustable Sta-Clean Polishing Hood Shield

Designed for any polishing hood and will protect the operator.

Description	Dimensions	Item #	Each
D. Adjustable Sta-Clean Shield/Fits any Hood	6"L x 9"W x 1/8" H	87-0120	\$32.70

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	Item #	Each (1-2)	Each (3+)
E. Romanoff Lighted Professional Polishing Hood	12 3/4"L x 16"W x 15"H	Z42-301	\$132.55	\$126.75

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
F. Grinding Box Totally Enclosed	110V	16" L x 14" W x 16" H	87-030	\$307.95

Polishing & Collecting



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 fillings to fall into the sliding drawer below. A security lock and two keys are supplied with the unit to prevent pilferage.

Main features

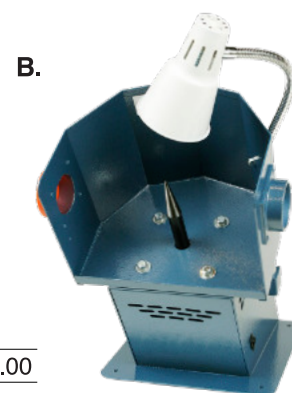
- Fluorescent light under the top of the hood for shadowless illumination.
* (Bulbs purchased separately)
- Clear acrylic frontal shield provides protection for employees
- 3" inlet in the back for easy hook-up to your dust collector
- Security locking drawer is designed to prevent pilferage



	Description	Item #	Type	Voltage	Dimensions	Each
A.	Gold Saver Grinding Box	87-029	Lighted	110V	16" H x 16" W x 16" D	\$332.00

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 passthrough, 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	1/2	110V	87-0265	\$459.00
B2.	5/8" Set Screw, 6" Tapered Left Hand Spindle (Not Shown)	--	--	87-104L-2	\$24.90



C.



D.



E.



F.

Compact Polishing Machines & Bench Dust Collectors

Conveniently sized and surprisingly powerful, our under bench and table top dust collectors come in a variety of sizes. Choose from either a single spindle or double spindle design, both of which feature a 1/2HP 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
C.	Single station	87-004	1/2	165	13.25" x 18.5" x 9.75"	\$474.00
D.	Double Station	87-003B	1/2	465	32.5" x 22" x 12"	\$627.00
E.	Gold Catcher Bench Vac	87-005	1/2	280	10" x 15-1/4" x 14"	\$657.00
F.	Silent Deluxe Vacuum Odor & Hepa Filter With Speed Control	RE-1000-15	1/2	390	32.5" x 22" x 12"	\$1,116.95

Plating Machines

Multiple Plating Materials: The Roma-Plater Electroplating Machines are capable of plating gold, silver, rhodium, nickel, copper, as well as electrolytic degreasing.

Versatile Plating Applications: The Roma-Plater Electroplating Machines are a must-have for any jewelry, goldsmith, optical, dental and model fabrication workshop. Made in hot-painted steel, Roma-Plater machines have Pyrex borosilicate glass tanks, Plexiglass protection cover and anti-acid P.V.C. working tank.

Everything You Need: The Roma-Plater electroplating machines are furnished with electro-cleaner solution, stainless steel and platinized titanium anodes and cable with holder for the objects. Plating solutions relative anodes, and a stylo-galvanic work set, composed of stainless steel tweezers and plating pen with platinized contact available.

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	\$842.16	\$1,638.19	\$1,995.00



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



C

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

Romanoff bath plating solutions are carefully formulated to give you consistent results in your plating efforts. Plating solutions are generally used in stainless steel or Pyrex containers.

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

Rhodium Plating Solutions: (2 grams of rhodium) 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	Grams	Item #	Size
A.	24kt Yellow Gold Bath Plating Solutions (RTU)	2-Gr	80-001	0.95L
B.	Double Green Plating Solution (RTU)	2-Gr	80-003-DG	0.95L
C.	14kt Yellow Gold Bath Plating Solutions (RTU)	2-Gr	80-005	0.95L
D.	14kt Rose (Pink) Gold Bath Plating Solutions (RTU)	2-Gr	80-005-P	0.95L
E.	18kt Yellow Gold Bath Plating Solutions (RTU)	2-Gr	80-006	0.95L
F.	Bright Nickel Bath Plating Solutions (RTU)		80-012	0.95L
G.	Rhodium Bath Plating Solution (RTU)	2-Gr	Z49-677-2	0.95L
H.	Rhodium Bath Plating Starter/ Replenisher Concentrate	2-Gr	Z49-667-2	4 oz
I.	Rhodium Pen Plating Solution (RTU)	2-Gr	Z49-673-2C	4 oz



A.-F.



G.



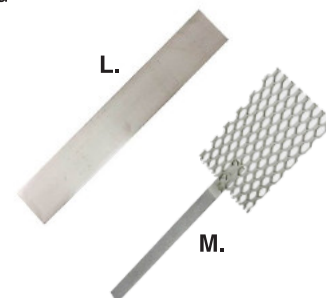
H.

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
L.	Stainless Steel	80-216	1" x 4"	Gold	\$24.00
M.	Platinized Titanium	80-220	2" x 3"	Rhodium	\$86.30

L.



M.

Heavy Duty Plater & Stripper

The 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
N.	Heavy Duty Rectifier	80-024	110 V/ 30 Amp	\$425.00
O.	Rectifier Plating Cables	80-212	4 ft Cables	\$22.38

N.



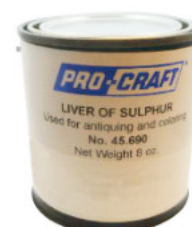
O.

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
P.	Liver of Sulphur	80-013-LS	8 oz Jar	\$28.00

P.



Tumbling Machines & Supplies



Mini

82-268-USA



Medium

82-270-USA



Large

82-277-USA

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.

Description	Item #	Bowl Capacity	Bowl Diameter	Overall Dimensions	Weight	Each
Mini	82-268-USA	30-40 Rings	6 1/2"	7" x 7" x 10 1/2"	19 lbs	\$695.00
Medium	82-270-USA	85 -100 Rings	8 1/2"	12" x 12" x 15 1/2"	61 lbs	\$1,595.00
Large	82-277-USA	250 - 300 Rings	11"	16" x 16" x 15"	91 lbs	\$3,150.00

Finishing Media



	Description	Qty	Item #	Each (1-9)	Each (10+)
A1.	Magnetic Tumbling Pins: 0.5mm X 5mm	250g	82-273	\$49.00	--
A2.	Magnetic Tumbling Pins: 0.3mm X 5mm	250g	82-2733	\$63.00	--
A3.	Magnetic Tumbling Pins: 1.2 mm	250g	82-2733-3	\$355.40	--
B.	Carbon Steel Shot Media: Oval 1/8"	1 lbs	82-038	\$25.45	\$24.70
C1.	Carbon Steel Shot Media: Ball 1/8"	1 lbs	82-041	\$27.46	\$26.65
C2.	Carbon Steel Shot Media: Ball 3/16"	1 lbs	82-042	\$13.45	\$12.98
D.	Carbon Steel Shot Media: Diagonal 1/8"	1 lbs	82-045	\$21.77	\$20.65
E1.	Carbon Steel Shot Media: Pins 1/16" x 9/32"	1 lbs	82-051	\$44.16	\$43.19
E2.	Carbon Steel Shot Media: Pins 1/8" x 3/8"	1 lbs	82-052	\$32.55	\$30.90
F.	Stainless Steel Media #2 Mix	1 lbs	82-054-SS	\$27.42	\$26.15
G.	Synthetic Plastic, Pink Quartz: 7/16" Conical	1 lbs	82-1050	\$3.81	\$3.70
H1.	Synthetic Plastic, Pink Quartz: 3/8" Conical Conical	1 lbs	82-1051	\$4.25	\$3.99
H2.	Synthetic Plastic, Pink Quartz: 1/2" Cone Conical	1 lbs	82-1051-1/2	\$3.49	\$3.39
I.	Synthetic Plastic, Green Quartz: 1/4" Pyramid	1 lbs	82-1035	\$5.90	\$5.73
J.	Crushed Cob Coarse	50 lbs	82-076	\$108.00	--
K1.	White Porcelain Media Balls: 4mm	1 lbs	82-1073	\$7.39	\$7.15
K2.	White Porcelain Media Balls: 6mm	1 lbs	82-1074	\$7.39	\$7.15

Ultra-Sonic Solution & Sinks



Original NYC BCR Plus Ultrasonic Solution

BCR (Buffing Compound Remover) Cleaning Solution: Jewelry industry standard for more than 50 years. Designed for the rapid breakdown and removal of 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). This is a very concentrated non-viscous, alkaline, liquid cleaner. With minimum odor. Use no more than 6-8 ounces per gallon of water.

	Description	Size	Item #	Each (1-2)	Each (3+)
A1.	BCR Plus Ultrasonic Solution	1 Gallon	80-098	\$21.75	\$21.10
A2.	BCR Plus Ultrasonic Solution	4 Gallon	80-098-4GL	\$83.98	\$81.47
A3.	BCR Plus Ultrasonic Solution	19 Gallon	80-098-19	\$368.06	\$357.00
A4.	BCR Plus Ultrasonic Solution	51 Gallon	80-098-BCR	\$918.83	\$891.27

A1.



A3.



A4.



Magnetic Tumbling Powder Soap Concentrate

Our magnetic powder soap works well by itself or can be mixed with our magic blue soap. This powder is slightly abrasive, and will brighten and smooth semi-rough surfaces.

Description	Size	Item #	Each
B. Magnetic Tumbling Powder Soap Concentrate	5lbs	80-0975	\$43.10



B.

Magic Blue Magnetic Tumbling 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	\$43.10



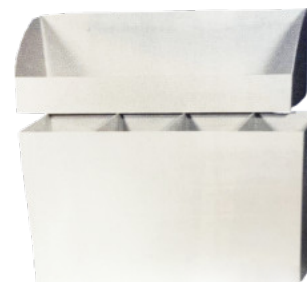
C.

Romanoff Gold Recovery System

Romanoff combines the time-tested technique of washout recovery with a uniquely engineered baffle system to capture your gold and other precious metals from going down the drain. These systems incorporate a series of baffles that the water must rise above to get to the next baffle. Hence, each baffle becomes its own settling area for precious metals. The rugged, reinforced polypropylene walls are non-corrosive and provide a smooth surface that prevents gold from clinging to them. Gold-laden sludge is 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

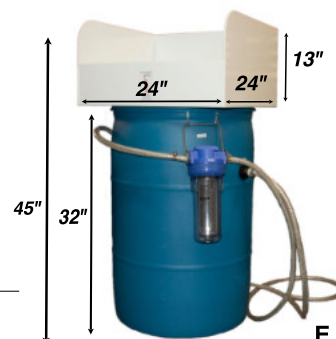


D.

Gold Filtration Sink System

This very economical gold filtration system is designed for any sized shop and will trap all particles down to 75 microns. 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. 110V. **Dimensions:** 24" (L) x 24" (W)

Description	Item #	Each
E. Gold Filtration System With Sink & Barrel (complete)	Z49-306-K	\$1,150.00



E.

Steamers

Reliable Steam Cleaners

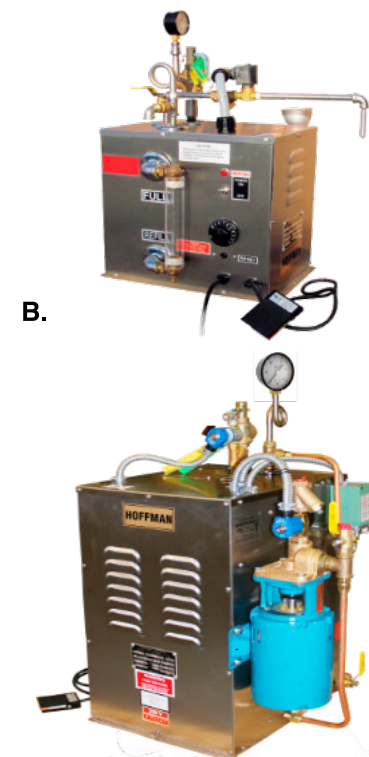
Available in three different models, each machine features an adjustable nozzle and foot pedal. The four safety systems include a pressure switch, probe safety thermostat on the heating element, safety cap with safety valve, and an automatic low water shut-off. Users will enjoy it's attractive stainless steel de sign. Each unit comes with a one year manufacturer's warranty and a lifetime warranty on the tanks. Made in Italy. 220V Available.



	Tank Capacity	Steam Time	Max PSI	Dimensions (L x W x H)	Item #	Each
A1.	0.66 gal	Up to 2 - 3hrs	50	8.75" x 14" x 11"	81-012-JR	\$645.00
A2.	1.25 gal	Up to 4 - 5hrs	60	8.5" x 13" x 15.5"	81-012	\$923.00
A3.	2.37 gal	Up to 8hrs	70	12.25" x 14.25" x 20.5"	81-013	\$1,199.00

Hoffman Steam Machines

Our Hoffman steam machines are very efficient, reliable, and operate by electronic foot pedal and solenoid. Both units are UL, CUL, and ASME approved. They feature outer stainless steel cabinets to eliminate rust, 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. The 6 gallon model will automatically replenish the boiling system to ensure consistent steam pressure throughout the work day. *6 gallon units can be upgraded to accommodate up to 2-3 operators.



	Description	Item #	Dimensions	Power	Each
B.	2 Gallon Manual Fill	81-002-R	14" x 14" x 14"	110V	\$ 1,865.00
C1.	6 Gallon Automatic Fill	81-004-B	24" x 36" x 23"	220V, 3-phase, 60Hz	\$7,310.00
C2.	6 Gallon Automatic Fill	81-004-C	24" x 36" x 23"	220V, 1-phase, 60Hz	\$7,350.00

Rubber Coated Steam Tweezers

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



	Description	Item #	Each
D1.	8"	80-225	\$5.90
D2.	Heavy Duty 10"	80-226-HD	\$11.95
D3.	12"	80-227	\$9.00

Plastic Strainer Basket

The UltraSonic Plastic Strainer 5 1/2" Basket is 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. Since the basket is not metal, the small polished parts will not be scratched.



	Description	Item #	Each
E.	Strainer Basket 5- 1/2"	81-030-5R	\$13.95

Ultrasonic Cleaners



Elmasonic Easy- Ultrasonic Jewelry Cleaners

Ideal for medical, jewelry and industrial laboratories and workshops, the Elmasonic units, equipped with functional equipment and an ultrasound frequency of 37 kHz, are designed to execute a variety of cleaning tasks. The Elmasonic EASY family includes a range of 7 different sizes with tank volumes ranging from 0.8 to 28 liters. Microprocessor-controlled ultrasonic with sweep technology offers a state-of-the-art solution. Made in Germany.

Features

- Microprocessor controlled 37 Khz transducer power, self-regulating generator
- Electronic diode display for time and temperature
- Auto-start temperature control / temperature selection
- Permanent sweep for an improved cleaning performance
- Brushed stainless steel cavitation-resistant tanks with calibrated fill level
- Ceramic heating elements tested and absolutely dry run proof
- Safety switch/off
- Available in 220V by special order

	Liquid Capacity	Model	Item #	Inside Tank Size	Machine Dim.	Each
A1.	3 quarts	P30H	81-210E-SS	9.45" x 5.39" x 3.94"	11.81" x 7.05" x 8.70"	\$484.00
A2.	6 quarts	P60H	81-220S-US	11.81" x 5.94" x 5.91"	14.37" x 7.32" x 10.67"	\$934.75
A3.	10 quarts	P100H	81-230E-SS	11.75" x 9.5" x 5.9"	14.38" x 11" x 10.38"	\$1,269.50
A4.	20 quarts	P180H	81-240E-SS	12.87" x 11.81" x 7.87"	15.38" x 13.38" x 12.64"	\$1,395.00
A5.	30 quarts	P300H	81-250E-SS	19.88" x 11.81" x 7.87"	22.36" x 13.38" x 12.64"	\$1,912.50



A1.



A5.

Romanoff Ultrasonic Racks

Heavy-duty, vinyl-covered racks has 20 hooks for holding jewelry for ultrasonic cleaning to be cleaned. Has adjustable 14" handle.

Description	Dimensions	Item #	Each
B1. Ultrasonic Rack 14" Adjustable Handle	8" x 3" with 20 Hooks	Z49-101	\$76.30
B2. Modular Ultrasonic Rack Add-On No Handle	8" x 3" x 3" with 20 Hooks	Z49-102	\$65.55



B1.



B2.

Branson Heavy-Duty Two Part Ultrasonics

These industrial strength machines feature a separate tank and generator, very heavy gauge stainless steel construction, solid state transistorized circuitry, replaceable transducers, and variable temperature control. Designed for medium to large sized manufacturers. The powerful action of these units results in more efficient and quicker cleaning than with any other ultrasonic cleaning machines. 110V Standard (220V Optional).

Description	Item #	Inside Tank	Outside Tank	Generator Dimensions	Each
C1. 5.2-gallon Tank	Z49-032-1	10" x 12" x 10"D	14" x 14" x 14" H	15" x 14" x 7" H	\$3,889.00
C2. Generator 8300	Z49-032-2	10" x 12" x 10"D	14" x 14" x 14" H	15" x 14" x 7" H	\$2,997.00



C1.



C2.

White Metal Casting Kit

For All Your White Metal Casting Needs!

Romanoff's complete white metal solution has all the essential equipment and supplies needed to produce quality white metal products such as, costume jewelry, fishing lures, belt buckles, accessories, and more!

Romanoff not only produces and sells white metal casting equipment, but will also support your manufacturing needs in your quest to produce high quality products, working with you step by step!

Electric Furnaces are available in 110V and 220V.



Description	Each
White Metal Casting Kit	\$24,837

Description	Item #
A Romanoff Air Pressure Casting Machine: 110V	99-002-D4AP
B White Metal Mold Floor Vulcanizer: 13" x 13" Platens 220V/1PH	98-026-HY-D
C1 RRD-1 Black Mold Rubber: 9" Dia x 1/2"	98-037
C2 RRD-1 Black Mold Rubber: 12" Dia x 1/2" - Set of 2	98-038
D1 Red General Silicone Rubber : 9" Dia x 1/4" Set of 2	98-050-NF1
D2 Red General Silicone Rubber: 12" Dia x 1/4" Set of 2	98-051-NF1
E Skelly Solvent 'H' Rubber Cleaner	98-153
F Heavy Steel Plated Mold Cap Locks 1K	98-138-H

Description	Item #
G Graphite Mold Release Spray Plus 12oz	98-025-1
H White Casting Talc - 1lb Package	99-203
I1 Bard Parker Mold Blade Handle #46	98-160
I2 Bard Parker Mold Cutting Blades #25 (150/BX)	98-161
I3 Sprue Former #1	98-128
J Romanoff Electric Melting Furnace: 80 lb - 110V or 220V	99-164-B10M
K Stainless Steel Electric Furnace Liner #80	99-178
L 9" x 1" Steel Mold Frames	98-091
M 12" x 1" Steel Mold Frames	98-095
N Lead Free Pewter Alloy - 7 lb Bar	99-361

Stainless Steel Well & Bracket

The Stainless Steel Well and Bracket are used to protect the thermocouple of the Partlow Controller. Length of the well when mounted should be at least 1" (25mm) above the top of the cast iron pot.



Description	Item #	Each
8" (203mm) Well	99-175	\$89.00
12" (305mm) Well	99-176	\$66.06
Mounting Bracket (fits both Wells)	99-177	\$24.05



Pewter Furnace & Molds



Romanoff Electric Furnace

Used for melting lead-free babbitt, solder, lead, tin, zinc, pewter, babbitt, and other metals with melting points up to 1000°F. This unit is engineered for durability and longevity, and is easy to service.

Lead Capacity	Watts	Inside Dia.	Inside Depth	Voltage	Item #	Each
A. 80lbs	2000	8" (20cm)	5-½" (14cm)	220V	99-164-B10M	\$1,365.00

Furnace Liners

These Stainless Steel pot liner inserts allow the caster to quickly switch metals and avoid cross metal contamination.

Description	Designed For	Item #	Each
B1. Stainless Steel #80 Electric Furnace Liner	#MP-80 Electric Furnaces	99-178	\$229.00
B2. Stainless Steel #160 Electric Furnace Liner	#MP-160 Electric Furnaces	99-179	\$249.00
B3. Stainless Steel #250 Electric Furnace Liner	#MP-250 Electric Furnaces	99-180	\$295.00

RRD-1 Black Mold Rubber

Very good for tin, lead and antimony alloys. Produces general purpose strong molds, green covering. Vulcanizes at 315°F.

Description	Diameter	Thickness	Sets	Box	Item #	Each (1-14)	Each (15+)
C1. RRD-1 Black Mold Rubber	9"	1"	2ea	15 sets	98-037	\$27.45	\$25.65
C2. RRD-1 Black Mold Rubber	12"	1"	4ea	10 sets	98-038	\$44.60	\$42.82

Red General Silicone Rubber

The most popular silicone rubber, Red Silicast, is good for thin-walled zinc/aluminum alloys, as well as for general purpose casting molds. Vulcanizes at 315°F.

Description	Diameter	Thickness	Sets	Box	Item #	Each (1-9)	Each (10+)
D1. Red General Silicone Rubber	9"	1"	4ea	10 sets	98-050-NF1	\$24.09	\$22.90
D2. Red General Silicone Rubber	12"	1"	4ea	10 sets	98-051-NF1	\$33.65	\$31.97

White Silicone Rubber

Excellent for plastic and white metal casting. Good tear resistance. Vulcanizes at 315°F.

Description	Diameter	Thickness	Sets	Box	Item #	Each (1-9)	Each (10+)
E1. White Silicone Rubber	9"	1"	4ea	15 sets	98-053	\$33.90	\$32.15
E2. White Silicone Rubber	12"	1"	4ea	10 sets	98-054-NF1	\$51.14	\$48.60

Romanoff Super Tuff Rubber

Original "H" formula; recognized in the industry as the best rubber for tin, lead, antimony alloy castings. It is the strongest and longest lasting rubber available. Excellent tear and abrasion resistance. *Perfect for both thin and thick castings. Yellow covering. Vulcanizes at 315°F.

Description	Diameter	Thickness	Sets	Box	Item #	Each (1-14)	Each (15+)
F1. Super Tuff Black Rubber	9"	1"	2ea	15 sets	98-067	\$27.45	\$26.10
F2. Super Tuff Black Rubber	12"	1"	4ea	10 sets	98-068	\$42.95	\$40.81



A.



B.



C.



D.



E.



F.



Automatic 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 machine's 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.

Advantages

- A dust-free work environment, guaranteed by the connected dust exhaustor.
- 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 dispersion
- Load investment without fear of investment inhalation
- Compatible with existing KWS EB Investment Machines.

Measure, mix and pour investment automatically!



Specifications:

Part Number	76-3008
Pricing	Call for Pricing
Max volume of investment material per operation	66 lbs
Measurement time for both components	3 Minutes
9" 110V Programmable Furnace Accuracy Measurement	+/- 20g 9"
Supply 400 V / 3-phase / 50 c	2 KW
Storage container	264 lbs, optional 881 lbs
Dimensions and weight with storage (264lbs)	112" L x 51.8" W x 114" H - 661 lbs
Dimensions and weight with storage (881lbs)	112" L x 51.9" W x 114" H - 705 lbs

Financing Opportunities Available \$

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

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romanoff.com/financing

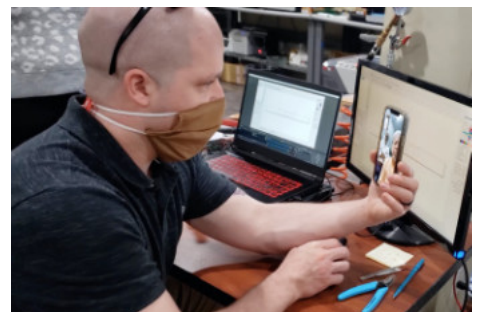


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