Agkem
Jewellery

24th ANNIVERSARY

Agkem Impex Pvt. Ltd.

Agkem Jewellery

DESKTOP LASER SPOT WELDING

FORZA 160

FORZA 180

The new digital microprocessor incorporated in the FoRza works 100 times faster than traditional systems. and is able to measure the high energy precisely, analyzing it and sampling it every 100 micro seconds.

Technical Specification:

Colonna1	FORZA-160
Power Supply	230 VAC, 50/60Hz
Absorption [A]	10
Type of Crystal	Nd:YAG
Crystal diameter [mm]	7
Lamp diametere [mm]	7
Pulse energy [Joule]	160
Max pulse duration [ms]	20
Peak Pulse-Power [kW]	8
Average Power [W]	90
Pulse Frequency [Hz]	30
Spot Size [mm]	0.2…2
External Display	TFT 3,5” colour touch-screen
Inside chamber Joystick	Yes
Stereomicroscope	10X at 45° binoculars and cross-hair pointer by LEICA
Weight [kg]	35
Cooling tank [lt]	1
Webcam	Yes, Output on USB
Welding-spot Setting	Motorized, 30 Positions
Pulse-Shaping Programs	Yes

Colonna1	FORZA-180
Power Supply	230 VAC, 50/60Hz
Absorption [A]	10
Type of Crystal	Nd:YAG
Crystal diameter [mm]	7
Lamp diametere [mm]	8
Pulse energy [Joule]	180
Max pulse duration [ms]	20
Peak Pulse-Power [kW]	9
Average Power [W]	100
Pulse Frequency [Hz]	30
Spot Size [mm]	0.2…2
External Display	TFT 3,5” colour touch-screen
Inside chamber Joystick	Yes
Stereomicroscope	10X at 45° binoculars and cross-hair pointer by LEICA
Weight [kg]	55
Cooling tank [lt]	1
Webcam	Yes, Output on USB
Welding-spot Setting	Motorized, 30 Positions
Pulse-Shaping Programs	Yes

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DESKTOP LASER SPOT WELDING

MADE IN ITALY

TRUSTED DISTRIBUTOR
GENUINE ITALIAN PRODUCT

FORZA 230

The new digital microprocessor incorporated in the FoRza works 100 times faster than traditional systems. and is able to measure the high energy precisely, analyzing it and sampling it every 100 micro seconds.

TECHNICAL SPECIFICATION:

FORZA 230	
Power Supply	230 VAC, 50/60Hz
Absorption [A]	10
Type of Crystal	Nd:YAG
Crystal diameter [mm]	7
Lamp diametere [mm]	8
Pulse energy [Joule]	230
Max pulse duration [ms]	25
Peak Pulse-Power [kW]	9
Average Power [W]	100
Pulse Frequency [Hz]	30
Spot Size [mm]	0.2…2
External Display	TFT 5.7" colour touch-screen
Stereomicroscope	10X at 45° binoculars and cross-hair pointer by LEICA

Inside chamber Joystick	Yes
Weight [kg]	55
Cooling tank [lt]	3
Webcam	Yes. Output on USB
Welding-spot Setting	Motorized, 30 Positions
Pulse-Shaping Programs	Yes
Programming Memory	100
Inert-gas Flowing	Yes
Compressed-air Flowing	Yes
Chamber illumination	Led
Fume extractor	Yes

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PRECIOUS METAL ANALYZER

Thermo Fisher SCIENTIFIC

NITON™ DXL800

PORTABLE GOLD TESTING ANALYZER

- Standard Analytical Range : 22 elements including all precious metal.
- Non-Destructive Analysis with near Instantaneous Result.
- Exceptionally Fast, Easy to use - see results in seconds on a bright, Touch-screen color display.
- No Harsh Chemicals or Acids that can burn your fingers, run clothing and damage counter tops.

Weight	17 lbs (7.7kg)
Outside Dimensions	396mm*206mm*265mm
Test Chamber Dimensions	172mm*184mm*133mm
Tube	Ag anode 45 kV maximum, 80 µA maximum
Detector	High-performance Si-PIN semiconductor
System Electronics	• 400 MHz ARM 11 CPU • 300 MHz dedicated DSP • 80 MHz ASICS DSP for signal processing • 4096 channel MCA • 64 MB internal system memory / 128 MB internal user storage
Display	Color touch-screen display
Standard Analytical Range	22 elements including all precious metals
Data Storage	Internal >10,000 readings with spectra
Data Transfer	USB
Security	Password-protected user security

NITON™ XL2 100P

HAND HELD PRECIOUS METAL ANALYZER

- Faster, more comprehensive than fire assay, with comparable accuracy.
- Easier, faster, more accurate than nitric acid test methods.
- You get all the power of our top-of-the-line instruments in a specially value-packaged solution.
- Simultaneous analysis of all precious metals –
- including gold (Au), silver (Ag), platinum (Pt), and palladium (Pd), as well as many other common alloying elements

Weight	< 3 lbs 10.7 oz (1.66 kg)
Dimensions	256mm*275mm*100mm
Tube	Ag anode 45 kV maximum, 80 ìA maximum
Detector	High-performance semiconductor
System Electronics	• 400 MHz ARM 11 CPU • 300 MHz dedicated DSP • 80 MHz ASICS DSP for signal processing • 4096 channel MCA • 64 MB internal system memory / 128MB internal user storage
Display	Fixed angle, color, touch-screen display
Standard Analytical Range	22 elements including all precious metals
Data Storage	Internal >10,000 readings with spectra
Data Transfer	USB, Bluetooth™, and RS-232 serial communication
Security	Password-protected user security

PM SI-PIN

SHOWROOM PURPOSE & TESTING CENTERS & HALLMARKING CENTERS

SI-PIN precious metal analyzer uses the high efficiency practical SI-PIN detector, by the real price location, satisfies the precious component inspection request.

PRECIOUS METAL ANALYZER

TECHNICAL SPECIFICATION

Elemental Analysis Ranges:	From Calcium (Ca), Touranium (U)
Measurement Objects	Solid, Powder, LIquid
Analysis Range	1% - 99.99%
Measuring Time	30 - 60 Second
Expanded Uncertainity	≤0.36%
High Voltage Power Supply	4-50 Kv / 0-1mA
Detector	SI-Pin
X-ray Source	Molybdenum target X-ray tube (No radiation)
Repeatability	≤ 0.5% for gold , measurement time 60 sec
Test Time	Adjustable from 10 to 60 seconds
Test Point Diameter	2 mm
Environment Temperature	0℃-30℃
Environment Humidity	≤70%
Input Voltage	AC 220V +- 5V, Recommended to configure AC purification Voltage Regulator Power Supply
Sample Cavity Size	310mm*240mm*90mm
Instrument Dimension	430mm*430mm*370mm
Instrument Power	120W
Net Weight	27kg

ADVANTAGES

- Elements Range-Up to 20 elements simultaneously
- SI-PIN Detector
- Signal Detection Circuit
- High & Low Voltage Power Supply Model
- Integrated Industrial Computer
- Molybdenum Target X-ray Tube (No Radiation)
- Time Adjustable from 10-60 Seconds
- Dimension - 430mm*430mm*370mm

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PRECIOUS METAL ANALYZER

GOLD PLUS

- Elements Range-Up to 10 elements simultaneously
- Proportional Counting Detector
- Signal Detection Circuit

Technical Specification

Elemental Analysis Ranges:	From Calcium (Ca), Touranium (U)
Measurement Objects	Solid, Powder, Liquid
Analysis Range	1% - 99.99%
Repeatability	≤ 0.5% for gold , measurement time 60 sec
Measuring Time	30 - 60 Second
Expanded Uncertainity	≤0.36%
High Voltage Power Supply	4-50 Kv / 0-1mA
Elements	Gold, Silver, Copper, Nickel, Platinum, Palladium, Cadmium, Rhodium
X-ray Source	Molybdenum target X-ray tube (No radiation)
Test Point Diameter	2mm
Environment Temperature	0℃-30℃
Environment Humidity	≤70%
Input Voltage	AC 220V +- 5V, Recommended to configure AC purification Voltage Regulator Power Supply
Sample Cavity Size	310mm*240mm*90mm
Instrument Power	120W
Net Weight	27kg

SHOWROOM PURPOSE & CASH FOR GOLD

Gold Plus precious metal analyzer uses the high efficiency practical proportional counter detector, by the real price location, satisfies the precious component inspection request.

PM SDD

- Elements Range-Up to 20 elements simultaneously
- Silicon Drift Detector (SDD)
- Signal Detection Circuit
- Molybdenum Target X-ray Tube (No Radiation)

Technical Specification

Elemental Analysis Ranges:	From Calcium (Ca), Touranium (U)
Measurement Objects	Solid, Powder, Liquid
Analysis Range	1% - 99.99%
Repeatability	≤ 0.5% for gold , measurement time 60 sec
Measuring Time	30 - 60 Second
Expanded Uncertainity	≤0.36%
High Voltage Power Supply	4-50 Kv / 0-1mA
Detector	SDD
X-ray Source	Molybdenum target X-ray tube (No radiation)
Test Time	Adjustable from 10 to 60 seconds
Test Point Diameter	1mm
Environment Temperature	0℃-30℃
Environment Humidity	≤70%
Input Voltage	AC 220V +- 5V, Recommended to configure AC purification Voltage Regulator Power Supply
Sample Cavity Size	310mm*240mm*90mm
Instrument Power	120W
Net Weight	27kg

SHOWROOM PURPOSE & TESTING CENTERS & HALLMARKING CENTERS

Vacuum Casting Furnace

Vacuum Casting Furnace FIM/MCE

The new FIM/MCE vacuum casting furnace is used to produce casted jewellery as well as ingots or sheet. It is a combination of the most advanced casting technology and Italimpianti Orafi's 40 years experience in the goldsmith industry. The unit has been designed to be user-friendly, faciitating the casting process and reducing all manual operations to a minimum, eliminating any possible man-made errors.

Technical Data

	FIM/MCM	FIM/3MCE	FIM/5MCE	FIM/10MCE
Power Supply	-	Three Phase	Three Phase	Three Phase
Power	5Kw	4Kw	7Kw	10Kw
Pump	-	25m3/h	25m3/h	25m3/h
Crucible capacity	1.5Kg of 18Kt Gold	1.5Kg Au 24 Kt	3Kg Au 24Kt	5Kg Au 24Kt
Temperature	-	12000C- Cr.A1	14000C-pt-ptRh	-
Cooling Water Consumption	40120 mm	15lt/min.ca	15lt/min.ca	15lt/min.ca
Cylinder Dimension with flanges	-	80-120 mm	80-120 mm	80-180 mm
Cylinder Dimension without flanges	max 300mm	80-130 mm	80-130 mm	80-190 mm
Cylinder Height		max 200mm	max 200mm	max 400mm

Electric Banking Furnace

Electric Banking Furnace

The machine has a special device to recover the wax during the pre-heating phase of the working cycle. There is also an on-board cycle programmer.

Technical Data

	FG/R12	FG/R19	FG/R27	FG/R37
power supply	Three Phase	Three Phase	Three Phase	Three Phase
Power	6Kw	9Kw	12Kw	15Kw
number of flasks	12-100x300 mm	19-100x300 mm	27-100x300 mm	37-100x300 mm
board diameter	440 mm	550 mm	650 mm	750 mm
overall dimensions	1090x1720x1100	1230x1740x1250	1340x1850x1360	1450x1850x1450
approx weight	380 Kg	500 kg	620 Kg	700 Kg

Refining Plants

Refining Plants for precious Metals

The unit is used for refining gold alloys using aqua regia; minimum obtainable purity is 999.5/1000

Technical Data

	IOA-M	IA020-1	IA05020-1	IA05050-1
Power Supply	Single Phase	Three Phase	Three Phase	Three Phase
Power	1.0 Kw	2.0 Kw	7 Kw	8 Kw
Quantity Refinable every 24 hours for tank	-	6 Kg	22 Kg	32 Kg
Dimensions (mm)	1100x700x1800	1300x2000x2240	500x3300x2250	5000x3300x2550
Weight	70 kg	290 Kg	560 Kg	600 Kg

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CASTING ALLOYS

UNITED PRECIOUS METAL REFINING, INC.

9K-14K YELLOW GOLD CASTING ALLOYS

Alloy Code	Color	Recom Karat	Application	Special Comments
UA 1	Rich Yellow	9-14K	Casting	High Performance, High reusability
200	Bright Yellow	9-14K	Casting	Low Silver, high reusability for open System
278	Greenish Yellow	9-14K	Casting	High fluidity & tarnish resistant,Stone-in-Place
NA200	Bright Yellow	9-14K	Casting	Very High fluidity, Low Silver, Stone-in-Place
VHF 10	Greenish Yellow	9-14K	Casting	High Performance, High Reusability, Design & Stone-in-place

18K YELLOW GOLD CASTING ALLOYS

Alloy Code	Color	Recom Karat	Application	Special Comments
315	Bright Yellow	18K	All Purpose	Excellent for casting and Fabrications, European 3N color
713	Bright Yellow	18K	Casting	Excellent Work ability, High Luster
720	Rich Yellow	18K	Casting	Smooth Surface
760	Greenish Yellow	18K	Casting	Low de-ex, European 2N color
790	Deep Yellow	18K	All Purpose	Low de-ex,European 4N color
792	Deep Yellow	18K	Casting	Tarnish resistance version of #790
NA290	Rich Yellow	18K	Casting	High Performance, High fluidity Alloy
NA790	Deep Yellow	18K	Casting	High fluidity Version of #790

20K-22K YELLOW GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
UA1	Standard Yellow	20-22K	Casting	High performance, High Reusability
390	Bright Yellow	20-22K	Casting	High Fluidity, High Hardness
854	Reddish Yellow	22K	All Purpose	Low Silver, High Fluidity
NA200	Rich Yellow	19-22K	Casting	Very High Fluidity, Low Silver & Stone-in-Place

9K-18K NICKEL/NICKEL-SILVER BASED WHITE GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
907	Premium White	14-18K	Casting	Excellent Whiteness, Rhodium Plating Optional
915	Premium White	14-18K	Casting	High Reusability & Surface Luster
M930	Premium White	9-18K	Casting	High Reusability, Fluidity & Surface Luster
943	White	9-14K	Casting	High Silver Based, Soft Work ability
952	Ultra White	9-14K	Casting	Silver Based, High fluidity, stone-in-place
970	Medium White	9-18K	Casting	Low silver, Low Nickel, Soft Work ability
974	Ultra White	9-18K	All Purpose	Low silver, High fluidity, stone-in-place
982	Ultra White	9-18K	Casting	Excellent fluidity, stone-in -place
983	Ultra White	18K	All Purpose	High fluidity, stone-in-place

9K-10K NICKEL & PALLADIUM "FREE" WHITE GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
936	Medium White	9-10K	Casting	High fluidity, & User-friendly
980	Medium White	9-10K	Casting	Easy Work flow, Soft
Rom 2	Medium White	9-10K	All Purpose	User friendly, suitable for ear-posts
F1	Natural White	9-14K	All Purpose	Patented, High fluidity, Excellent Color in 14K

MADE IN USA

9K-18K PALLADIUM WHITE GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
PD1	White	9-14K	Casting	Sulphate bonded (regular) investment
PD2	Vanilla White	14-18K	Casting	High Surface luster, Pt investment recommended
PD5	Silvery White	9-18K	All Purpose	Low Pd content, soft alloy
PD11	Bright White	18K	Casting	Use with Pt. investment powder & casting machine
PD20	Vanilla White	14-18K	All Purpose	Easy work ability, Pt. investment recommended

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FABRICATION ALLOYS

United Precious Metal Refining, Inc.

9K-14K YELLOW GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
291	Rich Yellow	9-14K	Fabrication	Reverse Heat-Treatable for Fab. & Machining
805	Greenish Yellow	9-14K	Fabrication	Color Match to #278 & #VHF-10
820	Standard Yellow	9-14K	Fabrication	Low Silver, Light Weight, Best for Rolling, Wire & Stamping
823	Medium Yellow	9-14K	Fabrication	Excellent, User-Friendly for sheet, Wire & Stamping
824	Rich Yellow	9-14K	Fabrication	Color Match to Ua1, Good for Chain Making & Tubing

18K YELLOW GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
291	Rich Yellow	18K	Fabrication	Reverse Heat-Treatable for Fab. & Machining
315	Bright Yellow	18K	Fabrication	All Purpose for wire, Sheet & Tube Making, Heat Treatable, European 3N color
725	Rich Yellow	18K	Fabrication	Excellent for Sheet, Wire & Tube making
795	Dark Yellow	18K	Fabrication	Excellent, User friendly, Sheet, Wire & Tube Stamping

20K-22K YELLOW GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
354	Bright Yellow	20-22K	Fabrication	Hard Alloy for 22KSheet, Wire & Stamping
821	Standard Yellow	20-22K	All Purpose	Grain Refined, Hard, High Surface Luster
823	Medium Yellow	20-22K	All Purpose	Cobalt Based Hard Alloy

9K-18K NICKEL-SILVER BASED WHITE GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
860	Ultra White	14-18K	Fabrication	Low Nickel, High Tensile Strength
862	Ultra White	10-18K	Fabrication	Low Nickel, Excellent Work ability
866	Medium White	9-18K	Fabrication	Soft Machine for Chain, Tube, Wire & Sheet Mfg.
869	Medium White	9-18K	Fabrication	Soft and user-Friendly
974	Ultra White	9-18K	Fabrication	Low silver, Excellent Work ability

9K-10K NICKEL & PALLADIUM "FREE" WHITE GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
Rom 2	Medium White	9-10K	Fabrication	User friendly, suitable for ear-posts

9K-18K PALLADIUM WHITE GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
PD 5	Silvery White	9-14K	All Purpose	Low Pd content, soft alloy
PD 7	Vanilla White	9-14K	All Purpose	High Tensile Strength
PD 16	Super White	18K	Fabrication	Excellent Fabrication, High Tensile Strength
PD 20	Vanilla White	14-18K	All Purpose	User- Friendly, Soft & easy Workability

Agkem Jewellery

CASTING & FABRICATION ALLOYS

United Precious Metal Refining, Inc.

18K -22K YELLOW GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
377	Standard Yellow	20-22K	All Purpose	High Surface Luster, Recomm. for Bangles
384	Dark Yellow	20-22K	All Purpose	Low Silver, vary Hard, High Fluidity
385	Dark Yellow	20-22K	All Purpose	Low Silver for Making Chains
387	Standard Yellow	20-22K	All Purpose	User-Friendly, Hard, Excellent Surface Luster
392	Fine Gold	18-22K	All Purpose	High Reusability, Tamish Resistant
394	Dark Yellow	18-22K	All Purpose	Very Popular, High Karat Jewelry Production
395	Bright Yellow	22K	All Purpose	Hard, Excellent Workability, Dark Yellow Shade

10K-18K GREEN GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
575	Green	10-18K	All Purpose	Enameling & Fabrication
Rom2	Green	18K	All Purpose	Enameling & Fabrication

9K-18K PINK GOLD

Alloy Code	Color	Recom Karat	Application	Special Comments
525	Prem. Russian Red	9-14K	Casting	Low silver based, high reusability, User-Friendly European 5N color
NA525	Prem. Russian Red	9-14K	All Purpose	Low silver, Low De-Ox,European 5N color
533	Light Pink	9-18K	Casting	Grain refined, Fire-Scale & Tarnish Resistant, Stone-in-Place
534	Rose Pink	18K	All Purpose	Grain refined, Excellent Workability
540	Premium Pink	9-14K	Casting	High fluidity, for open melting system
543	Dark Pink	9-18K	All Purpose	Low silver, high fluidity
548	Pink	9-18K	All Purpose	Low silver, user Friendly, Enameling
550	Dark Pink	9-18K	All Purpose	Excellent Work ability, Fabrication
560	Medium Pink	9-14K	Casting	Low silver, High Reuseability
NA540	Prem. Pink	9-14K	Casting	High Fluidity for Enclosed System
544	Light Pink	9-18K	Casting	High Fluidity & Tarnish Resistant
533M1	Light Pink	18K	Casting	Fire-Scale & Tarnish Resistant

BRASS & BRONZE

Alloy Code	Color	Recom Karat	Application	Special Comments
341	Antique Yellow	Bronze	All Purpose	Hard De-Ox Brass / Bronze for Sample Lines, Model Making: Also Suitable for Brass / bronze Industry
342	Standard Yellow	Bronze	All Purpose	
347	Standard Yellow	Brass	All Purpose	
372	Vanilla White	Brass	Casting	
373	White	Brass	Casting	
650	Standard Yellow	Brass	All Purpose	

MADE IN USA

Agkem Jewellery

SILVER & NON-SILVER ALLOYS

United Precious Metal Refining, Inc.

.925 STERLING SILVER GRAIN HEAT TREATABLE, DE-OXIDIZED

Alloy Code	Color	Special Comments
STERLIUM™	Dazzling White	High Performance for Enclosed Casting
STERLIUM PLUS	Ultra White	Germanium Based, Patented De-Ox, Fire- Scale
STAGCG-57NA	Ultra White	Tarnish Resistant & Improved Hardness
STAGCG-86	White	De-Ox, High Tarnish Resistance, high Fluidity
STAGCG-97NA	Super White	De-Ox, High Tarnish Resistance
SILVADIUM™ 1	Premium Metallic	Palladium based, High Tarnish, Resistance & hardness
Karat Sterling	Vanilla White	Gold based, High Tarnish Resistance
Platilite ™	Brilliant White	Platinum Based, User-Friendly
Platinet ™	Brilliant White	Platinum Based, Superior Hardness

.925 STERLING SILVER ALLOY

Alloy Code	Color	Application	Special Comments
S57 NA	Ultra White	All Purpose	Patented De-Ox, Fire-Scale & Tarnish Resistant, Improved Hard
S72	Brilliant White	All Purpose	High Performance & High Reusability
S86	Ultra Yellow	All Purpose	De-Ox, High Tarnish Resistance, High Fluidity
S88	White	All Purpose	De-Ox, High Tarnish Resistance, High Fluidity
S95	White	All Purpose	Spring-Hard,Tarnish Resistant
S97 NA	Super White	All Purpose	De-Ox, High Tarnish Resistance, Fluidity

SILVER FREE ALLOYS

Alloy Code	Color	Recom. Karat	Application	Special Comments
SFUA1	Rich Yellow	9-22K	Casting	Silver Free Alloy for Yellow Casting
SF544	Pink	9-14K	Casting	Silver Free Alloy for Pink Casting
SF291	Bright Yellow	9-22K	Fabrication	Silver Free Alloy for Yellow Fabrication
SF821	Standard Yellow	22k	Fabrication	Silver Free Alloy for Yellow Fabrication
SF351	Bright Yellow	22K	Fabrication	Silver Free Alloy for Yellow Fabrication

MASTER ALLOYS FOR GOLD & SILVER SOLDER-CADMIUM & LEAD FREE

Alloy Code	Color	Recom. Karat	Application	Special Comments
1SA	Yellow	8-14K	Extra Easy	For Minor Repair
2SA	Yellow	8-14K	Easy	For Soldering Findings & Repair
3SA	Yellow	8-14K	Medium	For Soldering Findings & Repair
4SA	Yellow	8-14K	Hard	Hard, Yellow for Sizing of Jewelry
5SA	White	8-14K	All Purpose	Nickel & Palladium Free White
6SA	White	8-14K	Easy	For Minor Repair
7SA	White	8-14K	Medium	For Soldering Findings & Repair
8SA	White	8-14K	Hard	For Soldering Findings & Repair
11SA	Pink	14-18K	All Purpose	Light Pink or Dark Yellow Solder
12SA	Dark Pink	14-18K	All Purpose	For Minor Repair & Major Repair
14SA	Pink	14-18K	All Purpose	For Minor Repair & Major Repair
30SA	Yellow	19-22K	All Purpose	For Minor Repair & Major Repair
18KYSAE	Yellow	18K	All Purpose	For Minor Repair & Major Repair
18KWSAE	White	18K	All Purpose	For Minor Repair & Major Repair
SSA	Sterling	.925	All Purpose	For Minor Repair & Major Repair & for Laser Wire

MADE IN USA

Agkem Jewellery

MICRO MOTORS

SAESHIN

Strong OZ Black

MADE IN KOREA

Desktop type strong torque at low speed
Vertical/Horizontal placement

speed

- RPM : max 50,000 rpm
- Torque : 7.8 N.cm
- Input : 100-120, 220, 240V (50/60 Hz)
- Output : 230V
- Right & Left turning ability
- Hand/Foot speed control system
- Self-diagnosis, Error display, work memory

Strong 207/102L

Compact Design, Erogonomic Design
Non Stage speed system with High torque

- Brand : Saeshin
- Automation : Grade Automatic
- Torque : 280 gf.cm
- Speed : max 40,000 rpm
- Input : 100-110, 220-240V (50/60Hz)
- Output : DC0-32V
- Right & Left turning ability
- Automatic overload protection system
- Hand/Foot speed control system

Strong 210/105L

Non stage speed system with high torque
Unique design, handpiece holder

- RPM : max 40,000 rpm
- Torque : 270 gf.cm with 105L
- Input : 100, 110/320, 240V (50/60 Hz)
- Output : DC0-32V
- Right & Left turning ability
- Foot speed control
- Foot speed pedal and foot on/off pedal option

Strong 204S/105L

Basic model, Mini-compact design
Less Vibration standard carbon brush motor

- RPM : max 40,000 rpm
- Torque : 280 gf.cm
- Input : 100, 110/320, 240V (50/60 Hz)
- Output : DC0-32V
- Right & Left turning ability
- Foot on/off switch

Agkem Jewellery

MADE IN KOREA

SAESHIN

Basic model, Mini-compact design
Less Vibration standard carbon brush motor

- RPM : max 40,000 rpm
- Torque : 280 gf.cm
- Input : 100, 110/320, 240V (50/60 Hz)
- Output : DC0-32V
- Right & Left turning ability
- Foot on/off switch

Strong 204C/102L

Carbon Brush Handpiece

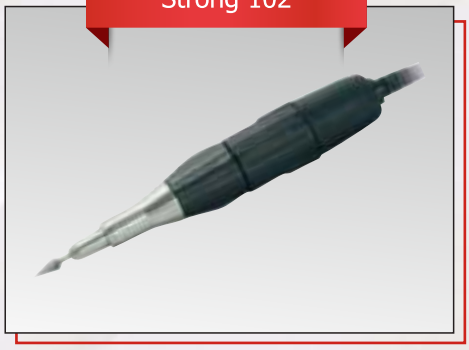
Strong 105L

RPM	40,000 rpm
DIMENSIONS(mm)	L 153 x L1 80 x L2 73 x D 29 x D1 15
TORQUE	3 N.cm

Strong 102L

RPM	40,000 rpm
DIMENSIONS(mm)	L 152 x L1 79 x L2 73 x D 29 x D1 15
TORQUE	3.5 N.cm

Strong 102



RPM	35,000
DIMENSIONS(mm)	L 158 x L1 85 x L2 73 x D 29 x D 29 x D1 13
TORQUE	3.5 N.cm

Forte 100 III Brushless

RPM	50000 rpm
DIMENSION(mm)	L 171 x L1 81 x L290 x D29 xD1 19
TORQUE	7.8N.cm

Ball Bearing

Micro Motor Carbon Set

Foot On/off Switch

Spindle Assembly

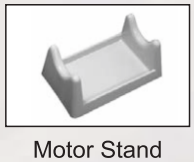
Foot Speed Control

Sleeve Collect Chuck

Lead

Handpiece Holder

Micor Motor Armature



Motor Stand

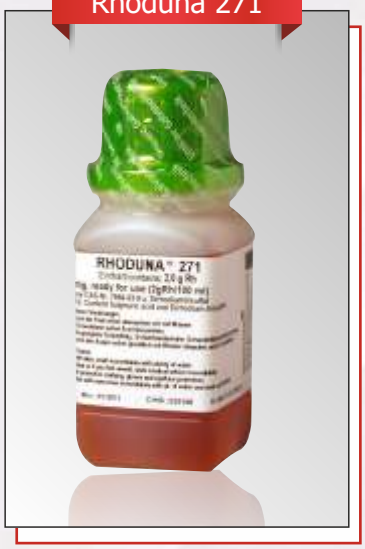
Lead (Brushless H/p)

Collect Chuck

RHODIUM PLATING SOLUTIONS

MADE IN GERMANY

Rhoduna 271



Rhoduna 271 is used in Pencil plating, which is a special type of brush plating with which small area elements of parts are selectively rhodium plated by means of direct current through a wiping touch with a tip soaked with the respective rhodium bath. It is distinguished by its high coveing power and plating speed. Mostly layer thickness of 0.1 – 0.2 µm are applied, coatings can also be made upto 1µm/

- Abrasion resistant, light and bright coatings
- Operating temperature 20°C to 40°C
- Depsotontion speed up to 0.2µm/min
- High covering power

Packing: 2g Rh/100 ml

Rhoduna® TD

RHODUNA® TD deposits brilliant white, ultra-bright layers up to a thickness of 0.5 µm. The electrolyte is suitable for decorative and technical applications with high plating efficiency, it can be used for rack and barrel operation. It is additionally characterized by high covering speed and excellent throwing power.

RHODUNA® TD can be directly deposited on nickel, silver, palladium and gold.

Packing: 2g / 100 ml

Applications
Accessories, Spectacke frames
Writing implements, Jewellery
Watches

R White +

EUROTecniche
PRECIOUS WORLDWIDE SOLUTIONS

MADE IN ITALY

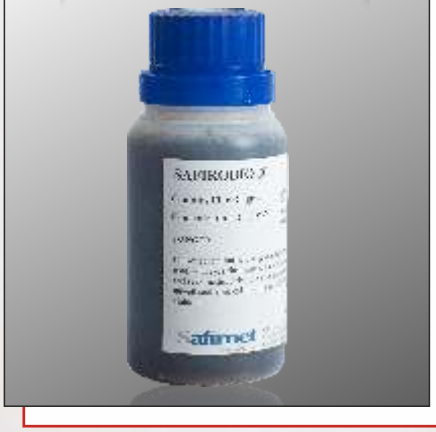
The line of rhodium RH+ by EUROTecniche can be considered the technological evolution of the brand Mashiro. The quality and reliability of this production developed with the use of special additives, allows to obtain black color levels of the highest quality.

Packing:

Bath - RWB 100+ Ultra White - 2g / 100ml
Pen - RWP 100+ Ultra White - 2g / 100ml

RHODIUM PLATING SOLUTIONS

Safirodio 20® Plus



White Rhodium solution for decorative applications:
Bright white Rhodium coatings
Rhodium layer up to 1um

Bath characteristics

Bath type	acid gold bath
Rhodium content	2 g/ 100ml
Free Sulfuric acid	34-36 g/l
pH value	1-3 at 35°c
Temperature	40°c
Current density	1-3 A/dm²
Voltage	3-4.5 Volts
Time of exposure	30-45 seconds
Deposition speed	2mn to deposit 0,1 um at 2 A/dm
Coating Characteristics	
Color	brilliant white Rhodium
Hardness	approx. 200HV under 20 grams

Safirodio P20M® *super white*

White Rhodium solution for decorative applications:
Bright white Rhodium coatings
Rhodium layer up to 1um

Pen characteristics

Bath type	acid gold bath
Rhodium content	2 g/ 100ml
Free Sulfuric acid	155-165 g/l
pH value	1-3 at 35°c
Temperature	Room Temp.
Current density	1-2 A/dm²
Voltage	10-12 Volts
Time of exposure	Few seconds
Deposition speed	2mn to deposit 0,1 um at 2 A/dm²
Rate of deposition will depend upon current density and temperature.	
Coating Characteristics	
Color	brilliant white Rhodium
Hardness	approx. 500HV under 20 grams

Palladium Plating "PD LUX"

Palladium Plating proceed by "PD LUX" (ready-to-use) allows to get a brilliant white colored lay until a thickness of 5 micron.

	Optimum Value	Range
Palladium	4,0g/l	3,5-5,0g/l
pH	8,50	8,30-9,00
Temperature	30°C	25-35°C
Bath Density	13,00°Be	12-14°Be
Voltage	1,8 Volts	1,3-2,0 Volts
Time of Dipping	90 Sec.	60-120Sec.
Current Density	0,50 A/dm2	0,40-0,60 A/dm2
Layer Speed	1 micron in 6,2min at 0,62A/dm2	
Hardness	450-500Hv	

Agkem Jewellery

SOLDER POWDER

ITALIMPIANTI ORAFI

MADE IN ITALY

Solder Powder

Packing - S 103 AG - 2 kg / Box
S 103 - 2 kg / Box

Type	Description
B	For soldering silver chain and 8-9-10ct
B1	For soldering 14-18-22 ct gild chains
B1/22	For soldering for 22 ct gold chains
B1/24	For soldering 24 ct gold chains
B1AG	Used for soldering gold chains of any fineness intended to withstand strong mechanical strains
B1AGS	Particularly suitable for soldering hollow chains with iron or copper cores
B2	For soldering brass chains
B/Pt	For soldering platinum chains

Descriptions:-

zinc-based soldering powder. Its main application is the soldering of chain's link in belt furnace systems.
The specific formulation of this powder includes deoxidizers, which prevent the formation of surface oxide layers and strengthening elements that reinforce the soldered link.

Packing - S 103 AG - 2 kg / Box
S 103 - 2 kg / Box

S103 / S103 AG

Solder Powder

GP Join Solder Powder

This Solder powder is used to join the Chains. It is very High Quality Product.

Packing- 5 Kg / Box

Agkem Jewellery

INVESTMENT POWDERS

Argon wax & powder

Silver Cast - 20

Usage Instruction Of Investment Powder

- Investment Powder: 1 Kilo
- Water 380ml-400ml
- Pour Water
- Put Powder In
- Stir 3-4 Min
- Vaccum Around 1-2 Min
- Pour Mixed Liquid Into Flask
- Vaccum Flask Around 1-2 Min
- Put The Dried Flask Into Furnace

Investment Powder For Brass & Silver Casting

1. Suitable for brass, silver and gold up to 14k
2. Smooth surface finish
3. Provides good thermal shock resistance during burnout and casting
4. Good quality raw materials for lost was casting

Ratio

100:38-40
Powder 1kg : Water 380ml-400ml

Gold Cast - 20

Usage Instruction Of Investment Powder

- Investment Powder: 1 Kilo
- Water 380ml-400ml
- Pour Water
- Put Powder In
- Stir 3-4 Min
- Vaccum Around 1-2 Min
- Pour Mixed Liquid Into Flask
- Vaccum Flask Around 1-2 Min
- Put The Dried Flask Into Furnace

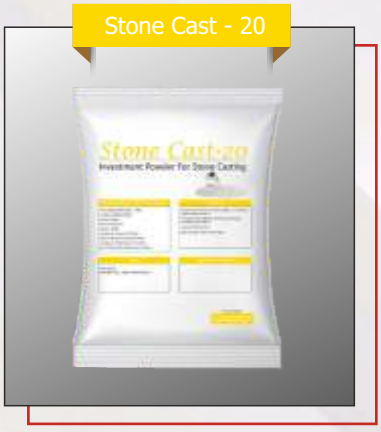
Investment Powder For Gold Casting

1. Suitable for all metals especially 18k gold or fine filigree work
2. Smoother surface finish
3. Better thermal shock resistance during burnout and casting
4. High purity raw material graded

Ratio

100:38-40
Powder 1kg : Water 380ml-400ml

Stone Cast - 20



Usage Instruction Of Investment Powder

- Investment Powder: 1 Kilo
- Water 380ml-400ml
- Pour Water
- Put Powder
- Stir 3-4 Min
- Vaccum Around 1-2 Min
- Pour Mixed Liquid Into Flask
- Vaccum Flask Around 1-2 Min
- Put The Dried Flask Into Furnace

Investment Powder For Stone Casting

1. Investment Powder for stone casting - no need to Additions liquid
2. Provides head shield for stones up to mould temperature of 625°C
3. Adjusted Setting Time
4. High surface finish for all metals

Ratio

100:38-40
Powder 1kg : Water 380ml-400ml

Silk Cast - 20

Usage Instruction Of Investment Powder

- Investment Powder: 1 Kilo
- Water 380ml-400ml
- Pour Water
- Put Powder In
- Stir 3-4 Min
- Vaccum Around 1-2 Min
- Pour Mixed Liquid Into Flask
- Vaccum Flask Around 1-2 Min
- Put The Dried Flask Into Furnace

Investment Powder For Jewellery Casting

1. Suitable For All Karat Gold
2. High Filgree Item
3. Satin Finish Surface
4. Less Polishing Work Needed
5. Wide Range Of Working Parameters
6. Better Thermal Resistance During Casting
7. High Quality Raw Material
8. No Need To Add Agent.

Ratio

100:38-40
Powder 1kg : Water 380ml-400ml

APL ARGON PREMIUM WAX

Product Features Available colors:- Pink, Blue & Green

Premium Wax fits for delicate & filigree products, high diversity, fine and complicated prong stone setting, super high flowability for gold.

Technical parameters:

Working Temperature : 72°C - 75° C

ROSE PINK WAX

Good general purpose wax with flexibility and low shrinkage.
Give an extremely smooth surface.
Injection temp. 72°C- 74°C

ROYAL BLUE WAX

Very flexible wax for fragile pieces,Give an extremely smooth, shiny surface
Low shrinkage and medium flow behavior
Injection temp. 72°C- 74°C

AQUA GREEN WAX

A good general purpose wax with high flexibility,
A similar wax to Pink but slightly less fluid
Injection temp. 72°C- 74°C

PINK FLAKES

Injection wax for jewellery Pink flakes offers the following benefits:
Good general purpose wax with flexibility and low shrinkage.
Give an extremely smooth surface.
Injection temp. 72°C- 74°C

TURQUOISE BLUE FLAKES

Injection wax for jewellery Turquoise flakes offers the following benefits:
A good general purpose wax with high flexibility,
A similar wax to Pink but slightly less fluid
Injection temp. 72°C- 74°C

Agkem Jewellery

COPPER & BRASSES

MADE IN ITALY

Oxygen Free Copper

Imported Copper Stick 99.99%
with anti tarnish

(OXYGEN FREE)

Characteristics:
High electrical and thermal conductivity;
possessing good strength and hardness;
heat wear resisting, distortion prevention ability strong

Packing :20 kg / 25 kg Per Bucket

Brass 90/10

- Color: Intense Yellow
- Brass for casting.
- Without stones.
- Open and closed systems.
- Deoxidized brass.

Cu%	90
Zn%	10

Packing.- Available in 1 kg/ 5 kg/ 20 kg

Brass 77/23

- Color: Light Yellow
- Brass for casting.
- Open and closed systems.
- With and without stones.
- Deoxidized brass.
- High reusability.

Cu%	77
Zn%	23

Packing.- Available in 1 kg/ 5 kg/ 20 kg

Brass 70/30

- Color: Light Yellow
- Brass for casting.
- Open and closed systems.
- With and without stones.
- Deoxidized brass.

Cu%	70
Zn%	30

Packing.- Available in 1 kg/ 5 kg/ 20 kg

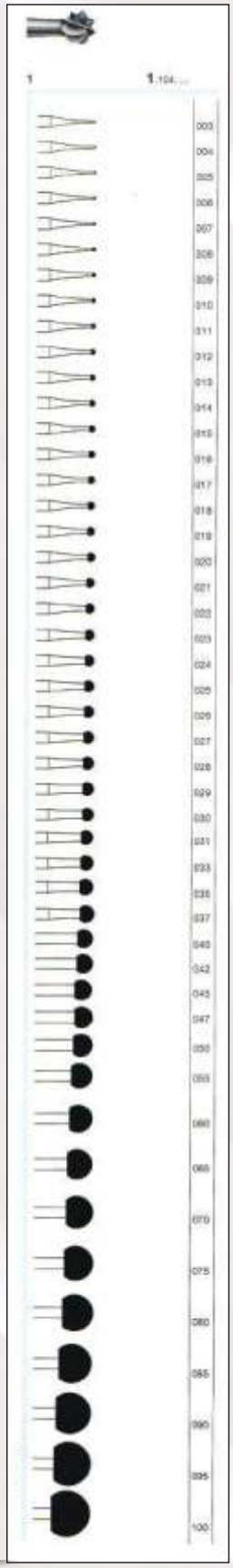
Agkem Jewellery

STEEL BURS

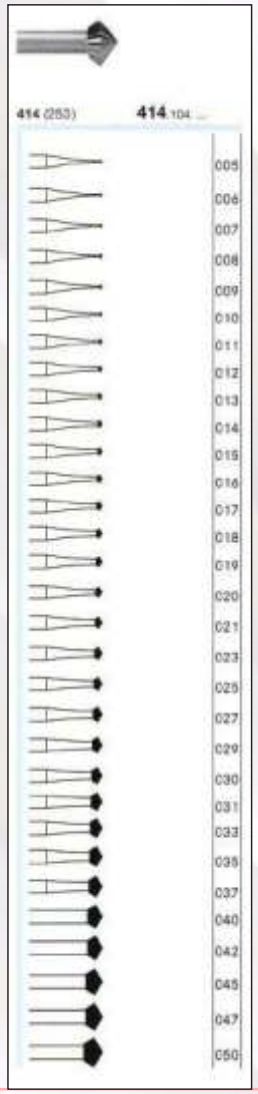
MADE IN GERMANY

D+Z

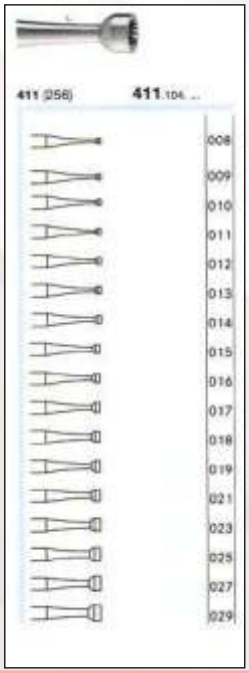
ROUND



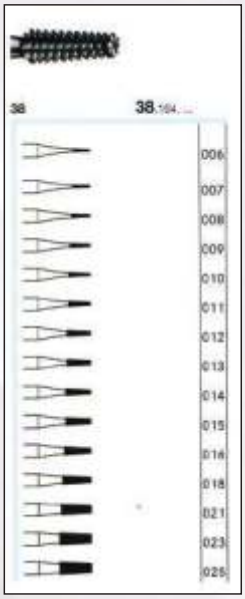
HART



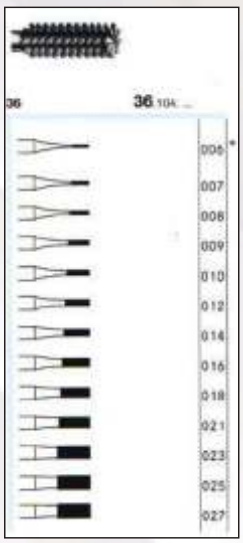
CUP



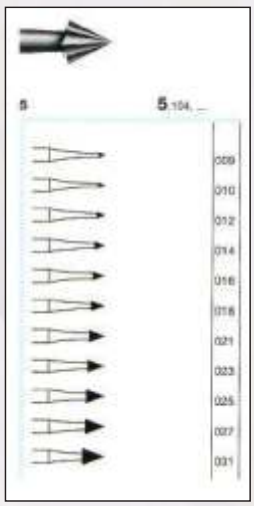
CROSS CUT



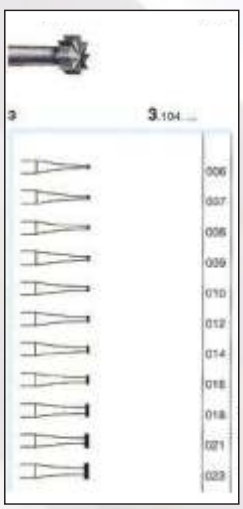
CYLINDER



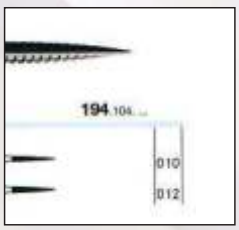
CONE



WHEEL



KRAUSE



Agkem Jewellery

SILICONE POLISHERS

MADE IN JAPAN

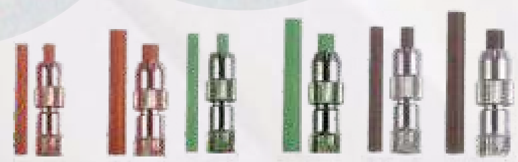
SHOFU

Rubber Polisher for Gold, precious & semi-precious alloys
Brown = for pre - polishing speed : 20,000 rpm packed : 100 per box

L mm	10,0	6,0	15,5	16,3	16,0	2,5	2,5	0,6	2,5	2,0
Size 1/10 mm	060	030	055	055	050	100	150	220	100	145

Rubber polisher for gold, precious & semi-precious alloys
Green = for high gloss polishing Green/Yellow ring = for ultra - shine polishing
speed : 10,000 rpm packed: 100 per box

L mm	12,0	12,0	16.0	2,5	2,0	22,0	1,0	3,0
Size 1/10 mm	120	140	050	150	145	060	220	220



Item	72	73	82	83	42	43
Size	2x20	3x23	2x20	3x23	2x20	3x23

The ultimate polisher for gold and all precious alloys in a 3-step system Speed: finish (green) 20,000 rpm
pre-polish (yellow) 15,000 rpm high gloss polish (pink) 10,000 rpm packed : 100 per box

- -

MADE IN ITALY

LM Separating and Grinding Disk for Precious Metal.

Made of hard polymerized resin ,Aluminium Oxide and Silicon Carbide for the best quality, in griding and cutting.

- Non-Pollutant
- Absolutely heatless
- For precise cutting of ceramics and precious alloy.
- Medium fine grit size

Available Size:

Cutting Disc (32 x 2.2 mm)
(40 x 1.0 mm)
(35 x 0.7 mm)

Seprating Disc (25 x 0.6 mm)
(25 x 0.7 mm)

Operating speed: 25000 rpm
Pacing : 100pcs/box

LM Discs

Agkem Jewellery

LIQUID SILICONE RUBBER

WACKER

Liquid Silicon Rubber

Properties

- Very good flow
- Fast and non-shrink curing at room temperature which can be accelerated considerably by the application of heat
- Very good transparency but pigmentable in any color
- High tear strength
- Outstanding resistance to casting resins, particularly polyure thanes and epoxies, for long service life of the molds
- Oil-free surfaces for crystal-clear resins

Packing :

A part = 20kg
B part = 2kg

Medium Shore A hardness (approx. 45)

Properties Uncured

Property	Condition	A	B	Method
Color	-	transparent	Colorless	-
Density	23°C	1.08 g/cm³	0.97 g/cm³	-
Viscosity, dynamic after stirring	23°C	30000 mPa.s	500 mPa.s	ISO 3219

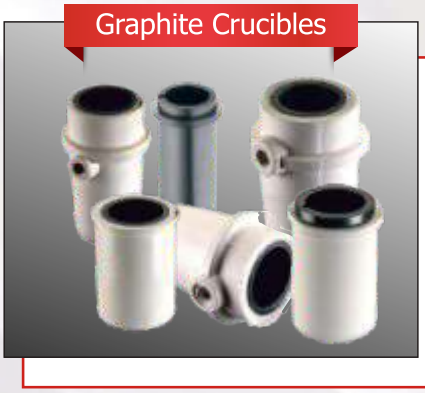
Properties Catalyzed A+B

Property	Condition	Value	Method
Viscosity, dynamic	23°C	25000 mPa.s	ISO 3219
Mix ratio	-	10 : 1	A : B
Pot life(1)	-	90 min	-
Curing time tack-free	-	12 h	

We use the high quality graphite to match quality with economical rate. Natural graphite is an excellent conductor of heat & electricity. It is stable over a wide range of Temp. graphite is highly refectory material with a high melting point (3650°C)

For continuous Casting Furnaces
For static Induction Furnaces
For Static resistance Furnaces
For Precision casting

Graphite Crucibles



Agkem Jewellery

INDIUM & Pt-Ti ANODE

CC Flex Shaft System

- Shaft system ball-bearing, 1/10hp cc motor achieves speeds up to18,000 rpm
- Jacobs chuck No.30 Flex Shaft handpiece accepts any accessary with a 0 to 5/32" shaft.
- Flexible FCT-1 slip-resistance, heavy duty, Solid state electronic foot control with plastic housing that allows control form low to full speed.

Packing :
1 Carton = 10 peace

Flex Shaft

Green Cutter

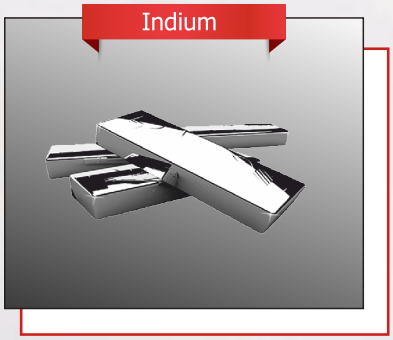
GREEN CUTTER

Model Number = GN-200
Weight / Length = 255 g / 200 mm
Cutting Capacity = Steel Wire 1.5 mm, Iron Wire 4.0 mm

Reputable in the world Jewelry market. High quality Jewelry cutters for casting tree.
Perfect sized tip-end which goes inside of the casting tree easily.
Made in Japan

Packing : 1 Carton = 60 peace (10 Box)
1 Box = 6 peace

Indium

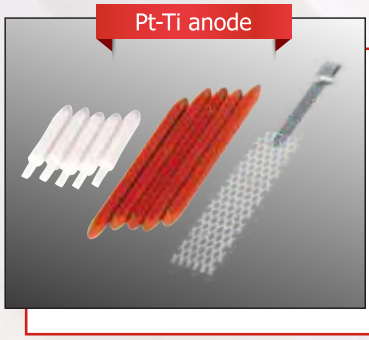


Indium (Softener)

Purity : 99.99%

Weight : 500gm Approximate

Pt-Ti anode



Platinized titanium anode (pt-ti anode)

Different size available for 1,2-5 liter bath

Tip Brown & White

It is used to plating via pen method

Glass Beads (Sand)

Available in size

0,1,2,3 according to mesh size

Packing = 1 Bag = 25kg

Agkem Jewellery

JEWELLERY MANUFACTURING MACHINES

Vacuum Wax

Vacuum Wax Injector

Power supply: AC 220V 50Hz/60Hz Single phase
Power consumption: 510W
Fuse: 5A
Wax capacity: about 3kg
Temperature Precision: +0.2°C
Air pressore supply: 4-7kg/cm
Pressore range: 0-2kg/cm
Temperature display range: 40-99.9°C
Temperature adjuseing rangs: 40-99.9°C

Eitan Steam Cleaner

A simple and effective Solution for Jewellery Cleaning Problem

Compact (25 cm high *21 wide *42 long)
Light (14 kgs) and portable
No special installation required
Plugs to any 110 or 220 volt
Steam cleaning cycle neon indicating light
Pressure regulations
Water outlet tap
Operational heating cycle neon indication light
The machine tested and approve all international standards
6 liters capacity, High pressure stream 7 bar (100 P.S.I)

Eitan Steam

Microscope

Microscope ZQ2

Optical system	The light path variable times within the system Boday perspective 13°,45° oblique viewing
TOTAL Magnification	7X~45X
Eyes lens	WF10X
Objective	0.5X
Continuous zoom	0.7X~4.5X
Operating distance	165mm
Field range	5.1mm~33mm
Interpupillary distance	55mm~75mm
Weight of packing	14.5KG
Dimension of packing	L440 x W330 x H310mm (0.0450cm³)

Microscope ZQ3

Optical system	The light path variable times within the system Boday perspective 13°,45° oblique viewing
TOTAL Magnification	7X~45X
Eyes lens	WF10X
Objective	0.5X
Continuous zoom	0.7X~4.5X
Operating distance	165mm
Field range	5.1mm~33mm
Interpupillary distance	55mm~75mm
Weight of packing	12.5KG
Dimension of packing	L370 x W320 x H280mm (0.0331cm³)

Microscope

ELECTRO PLATING MACHINES

Rectifiers & Pen-Plating Machine

Dip the plating pen with It's felt tip into a concentrated plating solution and apply the tip to the area being held by the special alligator clip. Instantly , you produce a quality plating as thick and bright as by normal bath plating. A variety of solutions can be used to plate including Rhodium, Gold in three different colors (14k,24k and Red), Silver and the unique "Black" Rhodium.

Heating mandrel

It is userful because it maintains the temp. through thermostate.It maintains homogeneous solution for making good result of Rh/Gold/Copper color.

Ultrasonic Cleaner

High Efficiency
Tank capacity 2500ml
Power 160-170 W
Digital control, LED display,
5 timer setting, 65 DC. (149F)
controlled heating safety and easier use
2500ml (with heater)

Ultrasonic Cleaner

Ultrasonic Cleaner(Stainless Steel)

Available Tank capacity **(6/9/12/15/20 liters)**
Wet -Proof PCB-good to be used in lab
With Heater
Stainless Steel body
Powerful transducers
Skid proof rubber feet

Agkem
Jewellery

To Know More, Please Visit

Agkem Impex Pvt. Ltd.

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Mob No.:09007372622
E-Mail:sanjay@agkem.com

GREATER NOIDA OFFICE

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NOIDA, Gautam Buddha Nagar, Uttar Pradesh, 201308
Ph No:+91 120 4290836

JAIPUR OFFICE

Ground Floor, Shop No.13-14,Toll Tax, Sanganer,
Rajasthan, 302029, Ph. No.:+91-141-2980984

JAIPUR SEZ OFFICE

H 154, Sitapura, SEZ II, Sitapura, Jaipur, Rajasthan,
302022

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BENGALURU OFFICE

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HYDERABAD OFFICE

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Road No:1, Nagole Hyderabad-500068,
E-Mail:hyderabad@agkem.com

United Precious Metal Refining, Inc. | Thermo Fisher Scientific | apl Gold Plus | Italimpianti Oraf | Safimet | D+Z | Saeshin | Shofu | umicore | Champion Equipments | Argon wax & powder | Wacker | Codyson

www.agkem.com