1978 - 2026

48

SINCE 1978 ®

Semsons

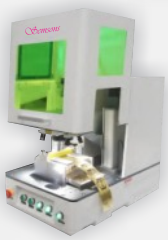
SINCE 1978 ®

Semsons Tech

WHERE QUALITY SPEAKS FOR US















SINCE 1978 ®
Semsons Tech
WHERE QUALITY SPEAKS FOR US



Awarded As Best Diamond Tools And Consumable Manufacturer



Awarded As Best Laser Cutting Machine



Awarded As Best Laser Welding Machine



Awarded As Best Entrepreneur Of The Year



Awarded As Best Diamond Setting Machine



- **VISION:**
  It is our vision to provide Hi-tech Solutions commercially viable and accessible to all business through Synergy of Human Brains & Technology pursuing ethical & socially respectable practices.
- **MISSION:**
  It is our mission to be a Total Solution Provider with innovative quality products through technical expertise and effective & efficient services for complete / total customer satisfaction.
- **VALUES:**
  #Building Human Organization #Universal Tolerance, Respect and Acceptance #Empowering Employees to Act #Creating Openness in Communication #Facilitating Ownership of Process and Outcome #Frugality #Promoting a Culture of Collaboration #Commitment with smart work #Promoting Enquiry and Continuous Learning #Innovation

About Semsons Group:

A pioneering name in the Diamond technology industry, traces its origins to the vision of Mr. Babulal Ravchand Mehta and his four sons: Mr. Shailesh Mehta, Mr. Jayesh Mehta, Mr. Atul Mehta, and Mr. Pikesh Mehta. Their relentless hard work and dedication laid the foundation for this extraordinary venture. Now, in its third generation, the enterprising spirit continues with Mr. Dhyey Mehta, Fenil Mehta, and Esha Mehta, who have taken the business to new heights of technological innovation in Diamond and jewelry automation.

Semsons Tech proudly showcases cutting-edge solutions, including Diamond Wax setting machines, compact laser marking machines, Jewelry laser welding machines, currency counting machines, XRF gold testing machines, jewelry and diamond photography solutions, induction melters, 3D cam CAD machines, automatic Enamel dispenser machines, CVD diamond testers, and an array of other jewelry manufacturing machinery and tools.

With 47 years of unwavering commitment, Semsons Tech has been awarded the accolade of the best Diamond tools and consumables provider. Continuously catering to the industry since 1978, our legacy is built upon excellence, innovation, and the enduring blessings of Mr. Babulal Ravchand Mehta.

Google Reviews ★★★★★
4.9 GOOGLE RATINGS

5M+ HAPPY CUSTOMERS

2000+ PRODUCTS

16+ STORES & WAREHOUSES

EXPORT IN 34+ COUNTRIES

40+ DISTRIBUTORS

450+ DEALERS

10 Steps To Start Your Own Factory

1 Designing & Moulding

- 3d Printer
- Resin
- Laser Cutting Machine

2 Moulding

- Vulcanizer
- Liquid Silicon
- Aluminium Frame

3 Wax Injection

- Wax Injector
- Wax
- Vacuum Pump
- Spru Wax Mould
- Shoulder Iron

4 Diamond Setting

- Diamond Wax Setting Machine
- Compressor
- Air Dryer
- Tray Setting

5 Mixing & Burning

- Auto Gypsum Vacuum Mixer
- Auto Gypsum Cleaner (Water Jet)
- Flask
- Flask Tong
- Rubber Base
- Investment Powder
- Burnout Furnance

6 Melting & Casting

- Casting Machine
- Melting Machine
- Graphite & Ceramic

7 Hand Polishing & Micro Setting

- Polishing Motor
- Ring Expander
- Tweezer & Player
- Bur Tools & Hammer
- Saw Blade & Graver
- Micro Setting Machine & Microscope

8 Shouldering & Marking

- Laser Marking
- Laser Welding
- Tick Welding
- Hydra Welding

9 Final Polishing

- Magnetic Tumbler
- Vibrator & Ultra
- Barrel Polish
- Electro Polish
- Consumables

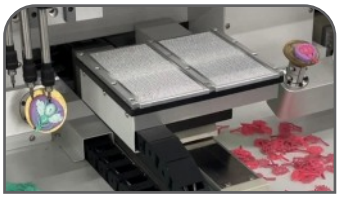
10 Measuring Instruments

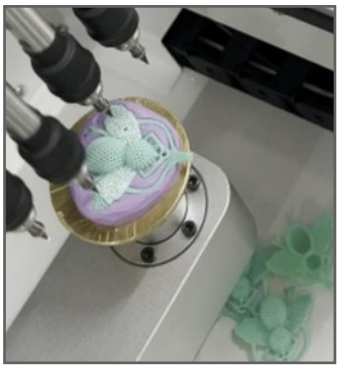
- Gold Testing
- Weighing Scale
- Caliper & Guage
- Metal Locator
- Magnifier & Eye Glass
- Currency Counting Machine

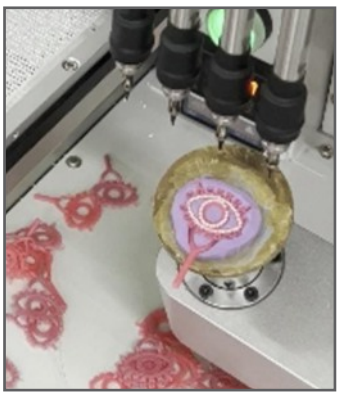
SINCE 1978 ®
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DOUBLE STATION AUTOMATIC WAX SETTING MACHINE











Weight : 850kgs
Dimension : 950*750*1400mm

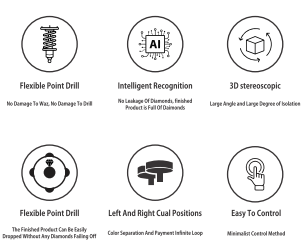
1 MACHINE CAN DO - 15 WORKER'S JOB

UPTO 15000 STONES PER HOUR

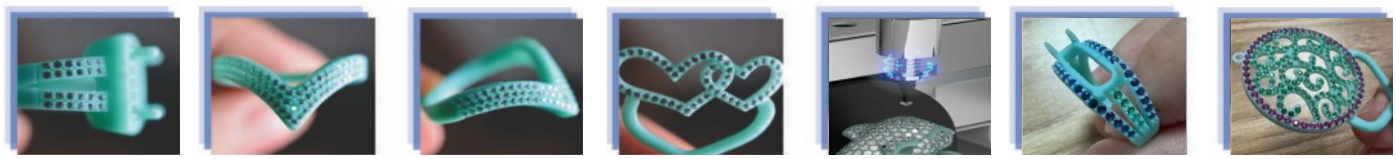
THE PARAMETER

Equipment Name:	Dual Station Automatic Setting Machine	Main Operation System:	Self Research System Of Semsons Tech
Equipment Model:	ST-3D 1000	Drive System:	High-End Servo
Workbench Structure:	Planar Double Worktable And Double Rotating Axis Working Structure	Transmission Model:	High-Precision Screw Guide
Running Speed:	18,000-20,000 diamonds per hour	X*Y*Z/A/C Valid Itinerary:	550*150*110mm/+150°-90°/360°
Suction Drill Bit Quantity:	4 Nozzles	Working Power Supply:	AC220V/50Hz
Drill Disc Fixing Method:	Movable Spring Jackscrew On The Upper Side Of The Platform	Rated Power:	2.5kw
Point Drilling Accuracy:	+0.02mm	Working Air Pressure:	80psi(0.4Mpa)
Control System:	Industrial Grade Five-axis Motion Controller		

6 CORE ADVANTAGES



SINGLE STATION AUTOMATIC WAX SETTING MACHINE





PRO MINI

Weight : 135kgs
Dimension : 711*660*736mm

Weight : 550kgs
Dimension : 780*730*1400mm

1 MACHINE CAN DO - 10 WORKER'S JOB

6 CORE ADVANTAGES

INTELLIGENCE STABLE EFFICIENT



UPTO 10000 STONES PER HOUR

THE PARAMETER

Equipment Name:	Mini Automatic Diamond Setting Machine
Equipment Model:	Mini Pro
Workbench Structure:	five-axis linkage workbench
Stone Setting Speed:	Max 10000 Stone Per hour
Number Of Suction Nozzles:	3 Suction Nozzle
Fixing Method Of Drill Head:	Embedded
Spot Drilling Accuracy:	+0.02mm
Control System:	Industrial Five-axis Motion Controller

Main Operation System:	Self-Research System Of Semsons Tech
Drive System:	High-End Servo
Transmission Model:	High-Precision Screw Guide
Z*Y*Z/A/C Effective Travel:	300* 250* 120mm/+150-90/360
Working Power Supply:	Single Phase 220v, 50hz/60hz
Rated Power:	1.3kw
Working Air Pressure:	80psi (0.4Mpa)

SINCE 1978 ®
Semsons Tech
WHERE QUALITY SPEAKS FOR US

DOUBLE STATION DOUBLE HEAD AUTOMATIC WAX SETTING MACHINE









ST-HDSSM



1 MACHINE CAN DO - 15 WORKER'S JOB

Weight : 835KG
Dimension : 1450*750*1395mm

6 CORE ADVANTAGES

INTELLIGENCE STABLE EFFICIENT



UPTO 20000 STONES PER HOUR

THE PARAMETER

Equipment Name:	Double Head Jewelry Wax Setting Machine
Equipment Model:	ST-HDSSM
Workbench Structure:	Dual Flat Worktable And Dual Rotary Axis Worktable Structure
Stone Setting Speed:	18000-20000 diamonds per hour
Number Of Suction Nozzles:	8 nozzles
Fixing Method Of Drill Head:	Moveable spring top screw on the upper side of the platform
Spot Drilling Accuracy:	+0.02mm
Control System:	Industrial-grade five-axis motion controller

Main Operation System:	Semsons tech self-developed system
Drive System:	High-End Servo
Transmission Model:	High-precision screw guide
Z*Y*Z/A/C Effective Travel:	335*120*105mm/+185°-50°/33600"
Working Power Supply:	AC220V/50Hz
Rated Power:	3.5kw
Working Air Pressure:	90psi(0.6Mpa)

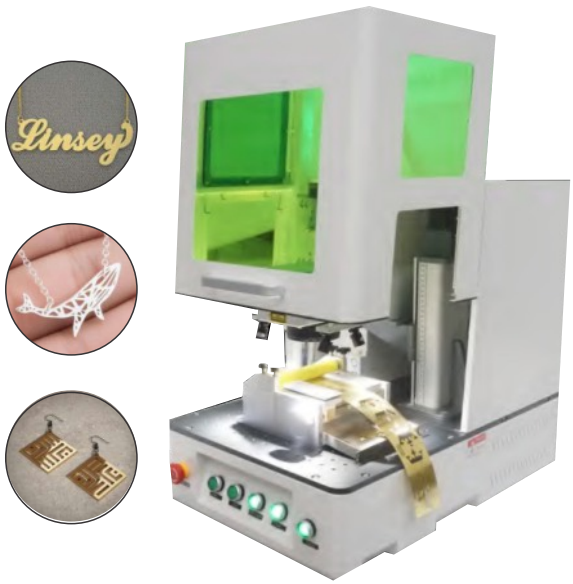
LASER MARKING MACHINE

Smart - Cube



WORLD'S COMPACT MARKING MACHINE

Smart Cut



LASER CUTTING MACHINE

Smart Mark



Smart - 2

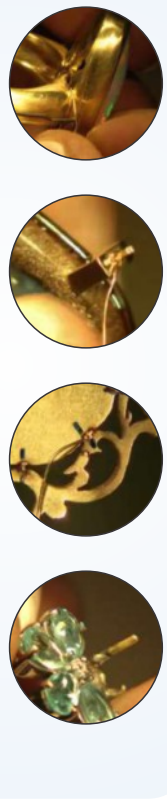


SINCE 1978 ®
Semsons Tech
WHERE QUALITY SPEAKS FOR US

JEWELLERY SPOT WELDING MACHINE



- Sweet Spot
- Speed Mode
- Pulse Ramping
- Dual Display
- Micro Weld
- User Friendly
- In-built Chiller



NEW PRODUCT





Technical Specification

laser source	Yag Single-Doped Laser
Frequency of laser	0.1-20Hz
Speed	1064nm
Output power	200w
Single pulse Energy	150J
Pulse width	0.1-20ms
Focal Spot Diameter	Adjustable: 0.2-3.0 nm
Viewing System	10x Microscope & CCD System
Control System	Integrated Visual Operating System
Cooling System	Chiller & Wind Colling System

GOLD ANALIZER XRF

Technical Parameters

Model	Signet FSDD
Detector:	Si(Silicone Pin)
Measurement objects:	Solid, Powder, Liquid
Measuring Accuracy:	+/-0.03%(Au %>96%)
Analysis range:	1% ~ 99.99%
High Voltage power supply:	0~50Kv/0~1MA.
Testable elements :	72 kinds of elements (gold, silver, platinum, palladium, iridium, cadmium, copper, nickel, zinc , Rhodium, ruthenium, iron, cobalt, osmium, tungsten, lead, manganese, rhenium...) etc....
X-ray source:	Triple Stage W- Target X-ray Tube.
Test time:	10 seconds to 60 seconds (40 Seconds for best results).
Test point diameter:	1 ~ 2mm
Environment temperature:	0°C ~ 35°C
Environment humidity:	<70%
Input voltage:	230V/50Hz
Sample (Chamber) cavity size:	368mm*298mm*86mm
Instrument dimensions (External):	615mm*418mm*315mm
Net Weight:	40 kgs
Light Tube Flow	0μA ~ 1000μA
Detector Resolution	145+/-15eV

Signet FSDD



Portable Gold Testing Machine



* UPS & ISOLATION TRANSFORMER COMPULSORY *

Signet Si-Pin



Technical Parameters

Analysis Range :	ppm to 99.99%
Accuracy :	± 0.03% (Au ≥ 99.9%)
Sample Form :	Solid, powder, liquid
High Voltage :	0~50kV/0~1mA
Detector Type :	SIPIN (USA)
Resolution :	165± 5 eV
Xray Source :	W-target xray tube with Be window air cooling
Optical System :	90 degree direct angle closed-beam optical path design
Collimator :	Most optimum size 2mm (Optional 1mm)
Sample Chamber Size :	300*300* 100 (mm)
Test Time :	5~60secs (User Selectable)
Measuring Element :	Full elements from Na (11) to U (92) except light elements
Camera :	HD camera
Filters :	Selectable customized switches
Multichannel Analyzer :	Digital multichannel
Analysis Software :	Semsons qualitative and quantitative analysis software
Dimensions :	L 400 W 350* H 300 (mm)
Net Weight :	25Kg

Signet - PC



CURRENCY COUNTING MACHINE



SMART X PRO



SENTRO MIX



SMART PLUS CIS



ST-100 UV / MG



ST 2000 MIX

BUNDLE NOTE COUNTING MACHINE



DESKTOP MODEL



ST 6000 IR MIX



ST-810

Vaccum Wax Injectors & Accessories






Vaccume Pressure Casting Machine



Automatic Wax Injector Machine



Mini CNC Machine



Tumbler Polishing Machine



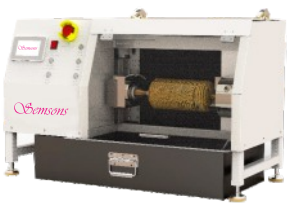
2D Enamel Dispensing Machine



3D Enamel Dispensing Machine



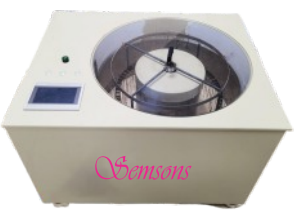
Tree Cutting Machine



Earring Post Welder Machine



Electro Polishing Machine



Motors



Solutions



Investment Powder Mixer



Burnout Furnes



Water Jet Machine



Single Station Polishing Machine



Lapping Machine



Double Station Polishing Machine



Filing Table With Dust Collector



Setlink With Handwash System



Magnitic Polishing Machine



Ultrasonic Machine



Steam Cleaning Machine
(S.S. Body)



Vacuum Machines



Vibrator Polishing Machine



Sand Blaster Machine (WET)



Rhodium Plating Machine



Ultrasonic



Available in 2, 3.2, 4.5, 6.5, 10, 15 Ltr.

Sand Blaster Machine (Dry)



3D PRINTING MACHINE & RESIN

MODEL
FOTO 6K

PRODUCT SPECIFICATIONS

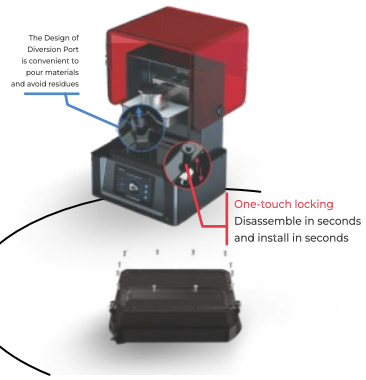
- Technology: LCD
- Build Volume: 197 x 122 x 200 mm
- XY Resolution: 35 um (5760 x 3600p)
- Layer Thickness: 25 to 200 um
- Production Capacity: 100g per day
- Compatible Resins: Direct Castable / Non-Castable



MODEL
FOCUS 6K

PRODUCT SPECIFICATIONS

- Technology: LCD
- Build Volume: 197 x 122 x 200 mm
- XY Resolution: 35 um (5760 x 3600p)
- Layer Thickness: 20 to 200 um
- Production Capacity: 150g per day
- Compatible Resins: Direct Castable / Non-Castable



NEW PRODUCT

MODEL
S3D-110

PRODUCT SPECIFICATIONS

- Technology: DLP
- Build Volume: 110 x 62 x 150 mm
- XY Resolution: 65 um (1920 x 1080p)
- Layer Thickness: 10 to 100 um
- Production Capacity: 60g per day
- Compatible Resins: Direct Castable / Non-Castable



MODEL
S3D-125

PRODUCT SPECIFICATIONS

- Technology: DLP
- Build Volume: 125 x 70 x 150 mm
- XY Resolution: 49 um (2560 x 1440p)
- Layer Thickness: 10 to 100 um
- Production Capacity: 50g per day
- Compatible Resins: Direct Castable / Non-Castable



MODEL
S3D-192

PRODUCT SPECIFICATIONS

- Technology: DLP
- Build Volume: 192 x 108 x 150 mm
- XY Resolution: 70 um (2712 x 1528p)
- Layer Thickness: 10 to 100 um
- Production Capacity: 110g per day
- Compatible Resins: Direct Castable / Non-Castable



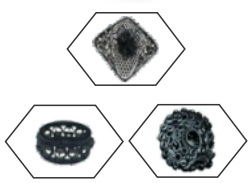
PRODUCT SPECIFICATIONS

- Technology: MJP
- Build Volume: 289 x 218 x 150 mm
- Resolution (DPI): 2900 x 2900 x 1700
- Layer Thickness: 15 um
- Dimensional Accuracy: ± 0.04 mm / 20 mm
- No. of Printheads: 3
- Production Capacity: 300g per day



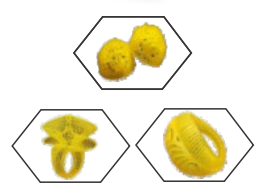
DC Black

- Low shrinkage
- Good surface finish
- High accuracy
- Low viscocity
- Low curing time
- Opaque colour



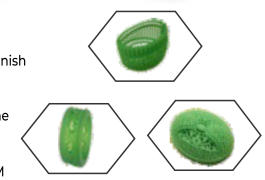
DC Yellow

- Low shrinkage
- Good surface finish
- High accuracy
- Low viscocity
- Highly consistent printing
- For DLP 405NM



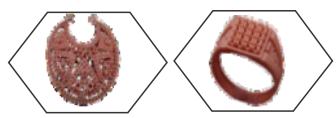
DC Green

- Low shrinkage
- Good surface finish
- High accuracy
- Low curing time
- Opaque colour
- For DLP 405NM



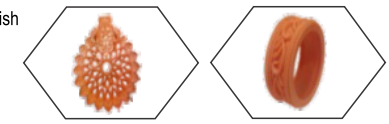
NC Red

- Low shrinkage
- Bright colours
- High accuracy



NC Red CWR

- Good surface finish
- High accuracy
- Low curing time
- Zero bending



WIDE RANGE OF DIAMOND AND GEMSTONE TOOLS


Assorting Lamp


Loupe


Diamond Girdle Reader


QC Magnifier


Precision Gauges



Gem Tool Kit


Ultrasonic Cleaner


Parcel Paper


Seives


Tweezer


Gem Refrectrometer


Microscope


Carat Scale



LED Digital Rate Board


Packaging & Display


Gemology instruments


Scoops


Gemstone Packaging


Ring Expandar


Selvet


Weighing Scale


Diamond Seller


Acrylic Tray

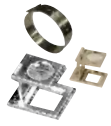

Third Hand


Parcel Boxes


Pouch


Assorting Pad


Bangle Sizer

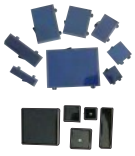

Eye Glass

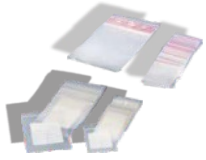

Diamond Holder


Tripod


Ring Sizer


Fluorescent Lamp


Shipping Box


Zip Lock Bag


Lamps


Colour Meter


Guage

GIFT ARTICALS


Diamond Pen with print of Co.'s Logo & Name



PRESIDIUM DIAMOND TESTER

PRESIDIUM GEM TESTER

TANITA WEIGHING SCALE

DIAMOND TESTERS

TANITA WEIGHING SCALE

Pen Drive with print of Co.'s Logo & Name

8 GB Pen Drive in Diamond Pen with print of Co.'s Logo & Name

PRESIDIUM GEM COMPUTER GUAGE

TANITA POCKET SCALE

Laniyard with print of Co.'s Logo & Name

Jwellery Microscope

Gemstone Microscope

Micrscope Light

Melting Machine

Induction Melting Machine

SINCE 1978 ®
Semsons Tech
WHERE QUALITY SPEAKS FOR US

INDUCTION MELTING MACHINE

1kg & 2kgs



> Jewellery Casting & Melting System

WHAT IS INDUCTION MELTING?

Induction melting is a process where metal is melted into liquid form in an induction furnace's crucible. The molten metal is then poured from the crucible, usually into a cast.

WHAT ARE THE BENEFITS?

Induction melting is extremely fast, clean and uniform. When correctly performed, induction melting is so clean that it is possible to skip the purification stage necessary with other methods. The uniform heat induced in the metal also contributes to a high-quality end result. Ignite Induction melting systems have advanced ergonomic features. They not only make workplaces safer, but also increase productivity by making the melting process faster and more comfortable

10kgs & 20kgs



Model:	IG-1/2
Power Supply:	Single Phase (230v/50Hz)
Output Power:	3.5kw
Technology:	IGBT
Crucible Capacity:	1kg & 2kg gold (24kt)
Melting time:	4 to 6 min.
Max. Temp.:	1200°C
Water Cooling System:	Water Chiller
Fabrication structure:	Foldable
Size:	585 x 600 x 900 mm (With Water Chiller)
Weight:	120kg (Induction + Water Chiller)

Mini Model

NEW PRODUCT



Other Accessories



Model:	IG-10/20
Power Supply:	Three Phase (440v/50Hz)
Output Power:	12kw
Technology:	IGBT
Crucible Capacity:	10kg & 20kg gold (24kt)
Melting time:	15 to 20 min.
Max. Temp.:	1200°C
Water Cooling System:	Water Chiller
Induction Size:	650 X 750 X 950 mm
Water Chiller Size:	630 x 630 x 960 mm
Tilting Size:	600 X 550 X 750 mm
Weight:	220kg (Induction + Water Chiller+ Tilting)

3kg & 4kgs



Model:	IG-3/4
Power Supply:	Three Phase (440v/50Hz)
Output Power:	7kw
Technology:	IGBT
Crucible Capacity:	3kg & 4kg gold (24kt)
Melting time:	6 to 8 min.
Max. Temp.:	1200°C
Water Cooling System:	Water Chiller
Induction Size:	585 X 600 X 800 mm
Water Chiller Size:	630 x 630 x 960 mm
Weight:	150kg (Induction + Water Chiller)

Induction Based Bottom Pouring Vaccum Casting Machine



WHY CHOOSE US

- IGBT Technology
- Compact Design
- Simple to Operate
- Low Maintenance
- Fast & Economical
- Low Energy Consumption
- Flame Less Silent Operation
- Advance Controlling System

Model:	IVC-1/2
Power Supply:	Three Phase (440v/50Hz)
Output Power:	7kw
Technology:	IGBT
Crucible Capacity:	1kg & 2kg gold (24kt)
Melting time:	4 to 6 min.
Max. Temp.:	1200°C
Water Cooling System:	Water Chiller
Casting Unit Size:	600 X 930 X 1100 mm
Water Chiller Size:	630 x 630 x 960 mm
Weight:	255kg

Alrosa Diamond Inspector



DRC J - Mini



Gemlogis Taupe



Certain



Certain



SmartPro Optimum



Smart Pro Screen1



Presidium SDS II



Presidium Ari



GemTrue



HAD Photo Studio



Easy Cliq



HAD



Rotary



Triple d



Gemnovo D Cell



Microscope



Sanoto



Smart 360 Dome



Crucible



Tools & Consumables



3 IN 1 Casting Machine

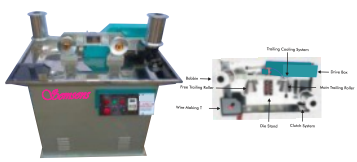


Double Head Rolling Machine



Dimension / Model	SMT 01	SMT 02	SMT 03	SMT 04
Rolls Width x Diameter	101.6 (4") x 127 (5")	127 (5.0") x 127	152.5 (6.0") x 127	150 (6") x 127
Wire Grooves From To	0.75 - 8	0.75 - 9	0.75 - 10	0.75 - 12
Max. Sheet Width can be rolled	60	80	100	150
Max. Apertures of Rolls	25	31	33	38
Power Supply	1 hp / 0.75 kw 1 Phase	1.5 Hp / 1.1 kw 1 Phase	2 h.p. / 1.5 kw. 1 Phase	5 h.p / 3.75 kw. 3 Phase
Depth Per Rotation of Staring	1.73	1.73	1.90	1.90
Machine Dimension in cm.	35 x 30 x 117	37 x 42 x 120	107 x 51 x 132	140x65x150
Machine Net. Weight	210.00 kg.	350.00 kg.	455.00 kg.	600.00 kg.

Wire Drawing Machine



Description	SMT 82	SMT 83	SMT 84
Model Type	6 Pass	8 Pass	12 Pass
Max. Wire Dia. (Gauge / mm)	18/1.2	15/1.4	14/2.0
Min. Wire Dia. (Gauge / mm)	47/0.05	47/0.05	47/0.05
Motor Power	2 HP	3 HP	3 HP
Cooling Motor	0.25 Hp.	0.25 Hp	0.25 Hp
Machine Dimension in cm	110x63x115	130x70x120	150x85x135
Machine Net. Weight	350 kg.	400 kg.	550 kg.

Hydraulic Press (Cutting & Embossing).



Vulcanizer Die Press



Casting Accessories



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