MECS TECH

MECS TECH Instruments Pvt. Ltd.



Customized Laser Equipment and Solution from professional perspective

www.mecstech.in

LASER MARKING



Laser Marking Machine Portable

- Portable table top model
- Motorized Head movement
- User Friendly Software for Easy Operations
- Competitive Price with low maintenance cost
- Fiber Laser source life more than 100000 working hours
- Specially Designed for Hallmarking Centre applications

MODELS

- **F20 Eco** (Max Photonics Source)
- **F20 Pro** (JPT Singapore Source)
- **F20 Pro+** (IPG Germany Source)





Laser Marking Machine with Camera Module

Specially designed Laser Marking machine for Diamond and Small jewellery articles

- Compact robust Split type model
- Manual Head Movement
- User Friendly Software for Easy Operations
- Competitive Price with low maintenance cost
- Fiber Laser source life more than 100000 working hours
- Specially Designed for Industrial applications

Paratmeters	Portable / Split Type
Model	F20 Eco - F20 Pro - F20 Pro+
Working Area	100mm X 100mm (Option: 200X200mm)
Laser Power	20W
Cooling System	Integrated Air Cooling
Head Movement	Motorised / Manual
Frequency	20KHz - 100KHz
Laser Wavelength	1064nm
Minimum Line Width	0.02mm
Minimum Character	0.15mm*0.15mm
Marking Line Speed	≤ 8000mm/s
Repeatability Accuracy	0.01mm
Graphic Format Supported	bmp, jpg, gif, tga, png, tif, ai, dxf, dst, plt etc.
Working Voltage	220V ± 10% | 50Hz | 4A
Unit Power	< 0.5kw
Laser Module Life	> 100000 hours
Net Weight	60KG /70KG
Gross Weight	70KG/ 80KG



Laser Marking Machine Split Type



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LASER CUTTING

- Enclosed chamber for easy movement to save your movement
- Low Power Consumption only 0.5kw per hour
- High Speed Galvo Scanner for fast cutting speed
- Perfect performance, continues working ability
- Stable structure & no vibration during work
- Models: F 60 (60Watt) / F 80 (80 Watt) / F 100 (100 Watt)

Paratmeters	Table Top / Floor Top
Model	F60 / F80 / F100
Working Area	100 mm X 100 mm / 200 mm X 200mm
Laser Power	60 Watt/ 80 Watt/ 100 Watt
Divergence	0.3 mard
Beam Quality	M2:1.2 - 1.8
Q Frequency	20KHz - 100KHz
Laser Wavelength	1064±10nm
Minimum Line Width	0.02mm
Marking Depth	0 - 1mm
Marking Line Speed	≤ 9000mm/s
Repeatability Accuracy	0.01mm
Graphic Format Supported	bmp, jpg, gif, tga, png, tif, ai, dxf, dst, plt, cdr etc.
Working Voltage	220V ± 10% | 50Hz | 4A
Unit Power	< 0.5kw
Working Environment	Clean & Dust free or Dust Less
Net Weight	90 KG / 175KG
Gross Weight	110 KG / 200KG





Laser Cutting Table Top



Laser Cutting Floor Top

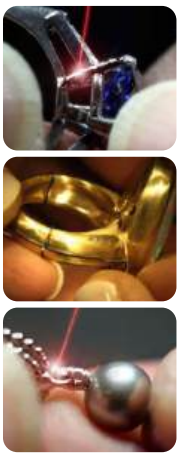
LASER WELDING

- Ergonomic Design with Top International Accessories
- Special Microscope or CCD observation system of cross cursor
- High power beam expanding system for fine light spots & meet the need of Fine Laser Spot Welding
- Specially designed for Jewellery Application
- Various Metal material such as Gold, Silver, Copper, Platinum etc. can be weld.



Laser Welding

Paratmeters	Table Top / Floor Top
Model	LW 200
Laser Power	200W
Laser Wavelength	1064 nm
Laser Type	YAG
Laser Welding Depth	0.1-3.0 mm
Puls Width	0.1-20 ms
Laser Frequency	0-50 Hz
Single Pulse Energy	90J
Laser Spot Size	0.2-3 mm
Power Consumption	6 KW
Operating Power	AC220V/50Hz 30A
Cooling Method	Water Cooling
Observing Systems	CCD 10x Microscope Or High Definition CCD
Size	1220x1000x600 mm
Weight	180 kg / 105 kg



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ABOUT US

We are a group of industry veterans in the field of lasers and analytical instruments.

MECS TECH Instruments Pvt. Ltd. provides innovative, robust, and safe Laser & Analytical solutions for the most demanding industries and jewellery applications. Relying on a team of Laser & Analytical Technology experts with over ten years of experience in the same field, we offer a complete range of products for jewellery applications such as Gold testing machines (XRF analyzers), Laser Soldering, Laser marking, Laser Cutting, and Laser Engraving in the primary metals as well as non-metals. A highly experienced team of seasoned professionals with knowledge and proficiency provides functional, efficient and sustainable products that consistently meet our clients' requirement and budget.

What started as a spark of vision in 2019 has today soared into a dominant voice in the jewellery industry on the wings of our dedicated associates. MECS TECH Instruments Pvt. Ltd. combines the abilities and services of capable and motivated associates with extensive product experience.

We strive to help our customers improve their productivity, reduce the skill set required to use the latest technologies, and ensure that workers evolve in a safe working environment. It's our endeavor to combine the talent of all the applications and industries to create impeccable strength and deliver high-class products and services to our customers.

We undertake complete Hallmarking & Assaying Centre Projects

Why MECS TECH?

- Online Support 24x7
- Factory Trained Engineers
- 24 Months Warranty On Source
- Quality tested products
- Make In India
- Genuine OEM Parts for After Sales Service

MECS TECH

MECS TECH Instruments Pvt. Ltd.

#71 & 72, 4th Floor, Plot No. C-39 A, B Wing, Gami Industrial Park, TTC Industrial Area,
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MECS TECH

MECS TECH GOLD

Low Cost High Performance Gold Testing Machine with New Era design and Configuration





Non Destructive Testing

Plug n Play System with Inbuilt PC

Touch Screen Display



Thermal Ticket Printer

MECS TECH provides innovative, robust, and safe solutions for the most demanding industries and jewellery applications. Relying on a team of Laser & Analytical Technology experts with over ten years of experience in the same field, we offer a complete range of products for jewellery applications such as gold testing machines (XRF analyzers), Laser marking, Laser cutting and Laser engraving & Laser Welding Machine. A highly experienced team of seasoned professionals with knowledge and proficiency provides functional, efficient, and sustainable products that consistently meet our clients' requirements and budget.

MECS TECH GOLD XRF Gold Testing Machine is ultimate verification instrument for Gold Jewellery. This state of art testing machine has exceptional precision and non destructive. It is easy to use with in build industrial computer and Touch screen display and provides accurate composition of the jewellery within 30 Seconds showing Digital Karat and Percentage of other metals present in jewellery.

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MECS TECH GOLD

Low Cost High Performance Spectrometer



Paratmeters	MECS TECH GOLD
Model	MECS TECH GOLD
Analysis Range	0.01% to 99.99%
Accuracy	0.3% to 0.5%
Sample Form	Solid
High Voltage	0~50KV / 0~1mA
Detector Type	Gas Filled Proportional Counter
X- Ray Source	W- Target X-Ray tube
Collimator	Most Optimum Size 2 mm
Test Time	30 Sec ~ 60 Sec
Camera	HD Camera
Element Range	Au, Ag, Cu, Cd, Pd, Pt, Rh
Interface	Integrated Industrial Computer
Analysis Software	Qualitative and Quantitative analysis Software
Working Voltage	AC 230V / 50Hz
Sample Chamber Size	310 x 270 x 100 (mm)
Ambient Temperature	5° C ~ 28° C (in Air Conditioned room)
Relative Humidity	15 % ~ 90 %
Unit Dimensions	17(H) x 16(W) x 21(L) (inches)
Net/Gross Weight	33/45 KG

APPLICATIONS

- Jewellery Retail Showrooms
- Gold Loan Banks
- Pawn Shops







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MECS TECH Instruments Pvt. Ltd.

MECS WELD 1.0

Desktop INDO - ITALIAN Jewellery Welding Machine

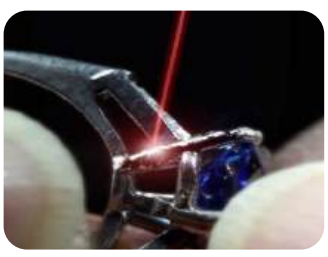


Jewellery Showrooms

Manufacturer

Job Work



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MUMBAI I PUNE I DELHI I BANGALORE I PATNA I KOLKATA

MECS WELD 1.0

INDO - ITALIAN JEWELLERY WELDING MACHINE

Paratmeters	MECS WELD 1.0
Laser Source & Wavelength	Nd: YAG 1064 nm
Maximum Laser Power	100 Joules
Peak Pulse Power	4 KW
Pulse Duration	25 ms
Average Pulse Power	45 Watt
Repetition Frequency	0.5 Hz to 10 Hz
Spot Diameter	0.2 mm to 2 mm
Microscope	10X Binocular with cross hair
Program	6, Preset
Program Memory	Cell 100
Display	5" Color Touch screen display
Cooling System	Inbuilt cooling system
Provision of external chiller	Yes available
Argon / Air Nozzle	Yes available
Dimensions	516x617x582 mm
Working Voltage	230V AC, 50/60 Hz, Single Phase
Net/Gross Weight	40 KG Approx

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MECS TECH

MECS TECH Instruments Pvt. Ltd.

MECS WELD 180

Desktop INDO - ITALIAN Jewellery Welding Machine



Jewellery Showrooms

Manufacturer

Job Work






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MUMBAI I PUNE I DELHI I BANGALORE I PATNA I KOLKATA

MECS WELD 180

INDO - ITALIAN JEWELLERY WELDING MACHINE

Paratmeters	MECS WELD 180
Laser Source & Wavelength	Nd: YAG 1064 nm
Maximum Laser Power	180 Joules
Peak Pulse Power	9 KW
Pulse Duration	20 ms
Average Pulse Power	75 Watt
Repetition Frequency	0.5 Hz to 25 Hz
Spot Diameter	0.2 mm to 2 mm
Microscope	10X Binocular with cross hair
Program	6 Preset Pulse Shape
Program Memory	Cell 100
Display	8" Color Touch screen display
Camera	In Screen Camera with Internal Joystick control
Cooling System	Dual Inbuilt cooling system, 4L
Argon / Air Nozzle	Yes available
Dimensions	516 x 671 x 582 mm
Working Voltage	230V AC, 50/60 Hz, Single Phase
Net/Gross Weight	45 KG Approx

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MECS TECH

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GOLD PRO

High Performance Gold Testing Machine with New Era design and Configuration



Jewellery Retail Showrooms

Pawn Shops

Gold Loan Banks









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MUMBAI I PUNE I DELHI I BANGALORE I PATNA I KOLKATA

MECS TECH GOLD PRO

High Performance Spectrometer

Paratmeters	MECS TECH GOLD PRO
Model	MECS TECH GOLD PRO
Analysis Range	0.01% to 99.99%
Accuracy	0.1% to 0.3%
Sample Form	Solid
High Voltage	0~50KV / 0~1mA
Detector Type	Silicon PIN (Si-PIN) Detector with Peltier cooling
Resolution (Mn - Ka)	≤ 240 eV
X- Ray Source	50KVA, W-target Air cooled X-Ray tube
Collimator	Fixed 1.5 mm collimator
Test Time	40 Sec ~ 60 Sec
Camera	High Resolution HD Camera
Display	Optional inbuilt touch screen display
Element Range	Au, Ag, Cu, Zn, Ni, Cd, Pt, Pd, Ir, Re, Ru, Rh Fe, In, Os, Sn, Pb, W, Co etc.
Analysis Software	Qualitative and Quantitative analysis Software
Working Voltage	AC 110V ~ 260V, 50 / 60 Hz
Sample Chamber Size	380 (L) x 350 (W) (mm)
Ambient Temperature	5°C ~ 25°C (in Air Conditioned room)
Unit Dimensions	380(H) x 380(W) x 480(L) (mm)
Net/Gross Weight	30 KG Approx



Easy Operation with Large Chamber Size



Clear Camera with Fast non destructive analysis

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