Activon

Where **innovation meets precision!**

We are pioneers in the laser machinery industry, specializing in **Fiber, CO2 & UV Laser Machines for Traceability and Branding.**

Our mission is to empower businesses with customized laser solutions that redefine the boundaries of creativity and efficiency

LASER MACHINES

www.activon.in

FIBER LASER
MARKING MACHINE

Designed For Precision Cutting, Engraving & Marking On Metals & Selected Non- Metals

6 AXIS ROBOT AUTOMATION

A 6-Axis Robot for Laser Machines is an Advanced Robotic Arm Integrated With Laser Technology, Designed To Perform Precision Marking, Cutting Welding, Or Engraving Tasks With Enhanced Flexibility & Accuracy. The Six Axes Provide A Wide Range Of Motion, Allowing The Robot To manoeuvre & Process Complex Geometries & Hard-To-Reach Areas Effortlessly.

LARGE BED SIZE

Large Bed Size Laser Marking Refers To A Laser Marking System That Features An Expansive Work Area, Allowing For The Engraving Or Marking Of Large & Oversized Materials Or Objects.

FIBRE LASER

HIGHLIGHTS

- Exceptional Speed & Accuracy
- Durable Laser Sources For Longevity
- Versatile Configurations To Fit Your Workspace.
- Eco-Friendly Operation With Low Energy Consumption.

CUSTOM OPTIONS

- Tailored Power Settings For Diverse Materials.
- Unique Table Designs For Optimized Workflow.
- Software Enhancements For Seamless Operation.

MODEL	ACTIVON FIBER 20	ACTIVON FIBER 30	ACTIVON FIBER 35	ACTIVON FIBER 50	ACTIVON FIBER 60
Nominal Average Power	> 20 W	>30 W	>35 W	>50 W	>60 W
Power Turnability	10 – 100 %	10 – 100 %	10 – 100 %	10 – 100 %	10 – 100 %
Repetition Frequency	20 – 80 KHZ	20 – 80 KHZ	25 – 60 KHZ	50 – 130 KHZ	01 – 400 KHZ
Pulse Width	90 ± 15 NS	100 ± 15 NS	115 ± 15 NS	100 ± 15 NS	115 ± 15 NS
Power Stability	>5%	>5%	>5%	>5%	>5%
Pulse Energy	0.9 MJ	0.9 MJ	1.4 MJ	1.0 MJ	1.6 MJ
Cooling Method	AIR Cooling	AIR Cooling	AIR Cooling	AIR Cooling	AIR Cooling
Working area	100 x 100 mm, 150 x 150 mm, 175 x 175 mm, 220 x 220 mm, 300x 300 mm, 400 x 400 mm				

HANDHELD / TABLE TOP

A Handheld Laser Marking Machine Is a Compact & Portable Device. These Machines Offer Unparalleled Flexibility & Efficiency, Making Them an Essential Tool For Modern Industrial & Artistic Applications.

MOPA LASER

Mopa Lasers Allow For Fine-Tuned Control Over Pulse Width, Enabling High-Quality Markings. One Of The Standout Features Of Mopa Lasers Is Their Ability To Create Vibrant And Varied Color Effects On Metals Like Stainless Steel & Titanium, Which Is Not Possible With Traditional Fiber Lasers On A Wide Range Of Materials, Including Metals, Plastics & Ceramics.

CO2 & UV
LASER MARKING MACHINE

Our CO2 Machines Are Your Canvas For Creativity, Perfect For Cutting, Engraving & Marking Nonmetal Materials Like Wood, Acrylic, & Glass.

HIGHLIGHTS

- Stunning Engraving Quality With Intricate Details.
- Smooth, Clean Cuts That Enhance Your Products.
- Intuitive Controls For Effortless Operation.
- Space-Saving Designs For Any Workshop.

CUSTOM OPTIONS

- Adjustable Power Levels To Suit Your Projects.
- Specialized Lenses For Enhanced Cutting & Engraving Capabilities.
- Software Enhancements For Seamless Operation.

MODEL	ACTIVON CO2 30	ACTIVON CO2 60	ACTIVON UV 5	ACTIVON UV 10
Laser Power	30 W	60 W	5 W	10 W
Wave Length	10.6 NM	10.6 NM	355 NM	355 NM
Marking Speed (mm/sec)	7000	7000	7000	7000
Marking Area	180*180	250*250	150*150	175*175
Cooling Type	AIR COOLED	AIR COOLED	WATER COOLED	WATER COOLED
Electrical Requirement	L/N/PE/230 VAC, 50 HZ		L/N/PE/230 VAC, 50 HZ	
Power Consumption (Watt)	650		1200	

HANDHELD LASER
WELDING MACHINES

A handheld laser welding machine is a portable, ergonomic tool for precision metal welding in industrial and manufacturing settings. Using a high-powered laser beam, it generates intense heat to melt workpieces, creating strong, clean welds. Its lightweight design allows easy movement and welding at various angles.

HIGHLIGHTS

PRECISION AND ACCURACY

Provides high precision & accuracy, making it ideal for delicate & Intricate welds, especially on thin metals or small parts.

MINIMAL HEAT-AFFECTED ZONE

The laser's concentrated energy minimizes heat distortion reducing the risk of material deformation & the need for post welding treatment.

PORTABILITY AND FLEXIBILITY

The handheld design ensures easy movement, allowing operators to weld at various angles & In hard-to-reach areas without needing bulky equipment.

HIGH WELDING SPEED

Faster than traditional welding methods, Increasing productivity & reducing operational costs for high-volume manufacturing

LOW MAINTENANCE & OPERATIONAL COST

Requires minimal maintenance due to fewer mechanical parts, leading to lower operational costs compared to traditional weiding machines

ENERGY EFFICIENCY

Uses a focused laser beam to concentrate energy exactly where needed, resulting in less energy waste & Improved efficiency.

BUILT-IN WATER CHILLER

The Water Chiller Inside The Cabinet Of Handheld Laser Welding Machine. We Adopt Integrated Water Chiller. With Good Cooling Effect For Both Welding Head & The Laser Source. The Integrated Water Cooling Design Also Saves The Layout Space & Freight Cost For The Customer. The Water Chiller Have To Fill Purified Water Or Distilled Water. Good Quality Water Can Protect The Machine Using Long Lifetime

SPECIFICATIONS

Laser Type: Fiber Laser

Laser Power Range:
1000W-1500W-2000W-3000W (Optional)

Wavelength: 1080nm+-5nm

Bearn Quality M2 (Bearn Quality Factor): <1.5

Pulse Duration: 0.1ms & 10ms.

Control System: Touchscreen

Cooling Type: Water Cooled

Wire Feeder Diameter: 0.8mm, 1.0mm, 1.2mm And 1.4mm 1.6mm, 1.8mm, Etc

Weld Width: 1mm To 5mm

FIBER LASER
CUTTING MACHINE

A fiber laser cutting machine is a high-precision tool that uses a powerful laser beam from a fiber optic cable to cut materials with speed, accuracy, and efficiency. Ideal for industries like metal fabrication, automotive, aerospace, and electronics, it offers fast cutting, low costs, energy efficiency, minimal maintenance, and smooth, clean cuts with minimal distortion on various materials.

MATERIALS TO CUT

- STAINLESS STEEL
- CARBON STEEL
- MILD STEEL
- TITANIUM
- BRASS
- ALUMINIUM

FEATURES

Durable rack-and-pinion with dual-servo lightweight gantry for high-speed precision.

Compact, safe design with top drag chain and fireproof bellows.

HV-protected, climate-control AC panel for reliable performance.

Auto-focus cutting head for precise, efficient operation.

Dust-proof gas line enabling smooth flow and 200 holes/min dynamics.

SPECIFICATIONS

Laser Source : IPG / RAYCUS / MAX / JPT

Working Area : 3000 x 1500 / 4000 x 2000 / 6000 x 2000

Drive Motors : Yaskawa / Panasonic / FUJI AC Servo Motors.

CO2 LASER
CUTTING MACHINE

Engineered for accuracy, speed, and reliability, our CO_2 laser cutters deliver clean cuts on **acrylic, wood, leather, fabric, and more.**

Built to perform. Designed to last.
Ready to elevate your production.

For more information, please contact us.

WHY CHOOSE US?

Expertise

Our Team Consists of Industry Experts With Years Of Experience in Laser & Automation to Improvise Production.

Tailored Solutions

We Collaborate Closely With You To Understand And Fulfil Unique Requirements.

Customization

We Work Closely with Clients To Develop Machines Tailored To Their Needs & Applications.

Innovative Spirit

Our Team Is Passionate About Exploring New Horizons in Laser Technology.

Dedicated Support

Our Commitment Doesn't End At The Sale. We're Here For Ongoing Training and Support. We Provide comprehensive Training, Technical support and After-Sales Service.

20 YEARS OF TRUST & SUPPORT

Activon

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