



SVAIT

Mechatronics
Pioneering Laser Solutions For Industry 4.0.

www.svaitmechatronics.com

About Us

At **SVAIT Mechatronics**, innovation is driven by experience. Founded by Industry professionals with decades of expertise in laser cutting technology and mechatronics engineering, we combine technical mastery with a passion for excellence. This foundation enables us to create fiber laser cutting machines that meet the highest standards of precision, productivity, and reliability.

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Our machines are engineered with **advanced designs**, robust construction, and uncompromising quality checks, ensuring long lasting performance even in demanding industrial environments. Each machine is not only a cutting edge tool but also a symbol of accuracy, efficiency, and trust.

But our promise goes beyond manufacturing. We take pride in offering complete customer support, including professional training for operators, guided installation, and continuous after sales service. With a dedicated team of service engineers and quick response support channels, we ensure our customers experience seamless operations and minimal downtime.

Whether you are a growing workshop or an established industry, **SVAIT** delivers not just machines but confidence, growth, and a lasting partnership.



Profit Maximization with High Quality Fiber Laser Cutting Machines

Our high performance fiber laser cutting machines are designed to maximize your profitability by ensuring precision, reliability, and minimum downtime. With premium components and advanced engineering, SVAIT machines deliver consistent cutting quality, low maintenance costs, and long term durability.

Because our systems are built to last, you spend less on spare parts, face fewer breakdowns, and enjoy smooth, uninterrupted production. Consistent quality means you can confidently deliver to your customers, improve your reputation, and command better margins for your services.

Why do we claim our machines are of world class quality ?

1. Unmatched Precision & Accuracy

Our machines cut at micron level accuracy, ensuring clean edges and repeatable results no matter the complexity of the design. (Measure actual cut accuracy with callipers across multiple samples.)

2. Maximum Uptime & Reliability

Built with premium laser sources and robust frames, our machines are engineered to run continuously with minimum downtime. (Track machine uptime hours under full load operation.)

3. High Energy Efficiency

With advanced fiber laser technology, our systems deliver maximum cutting power at optimized energy usage, reducing electricity costs. (Compare power input vs cutting output across shifts.)

4. Stable Performance – Low Vibrations, Low Noise

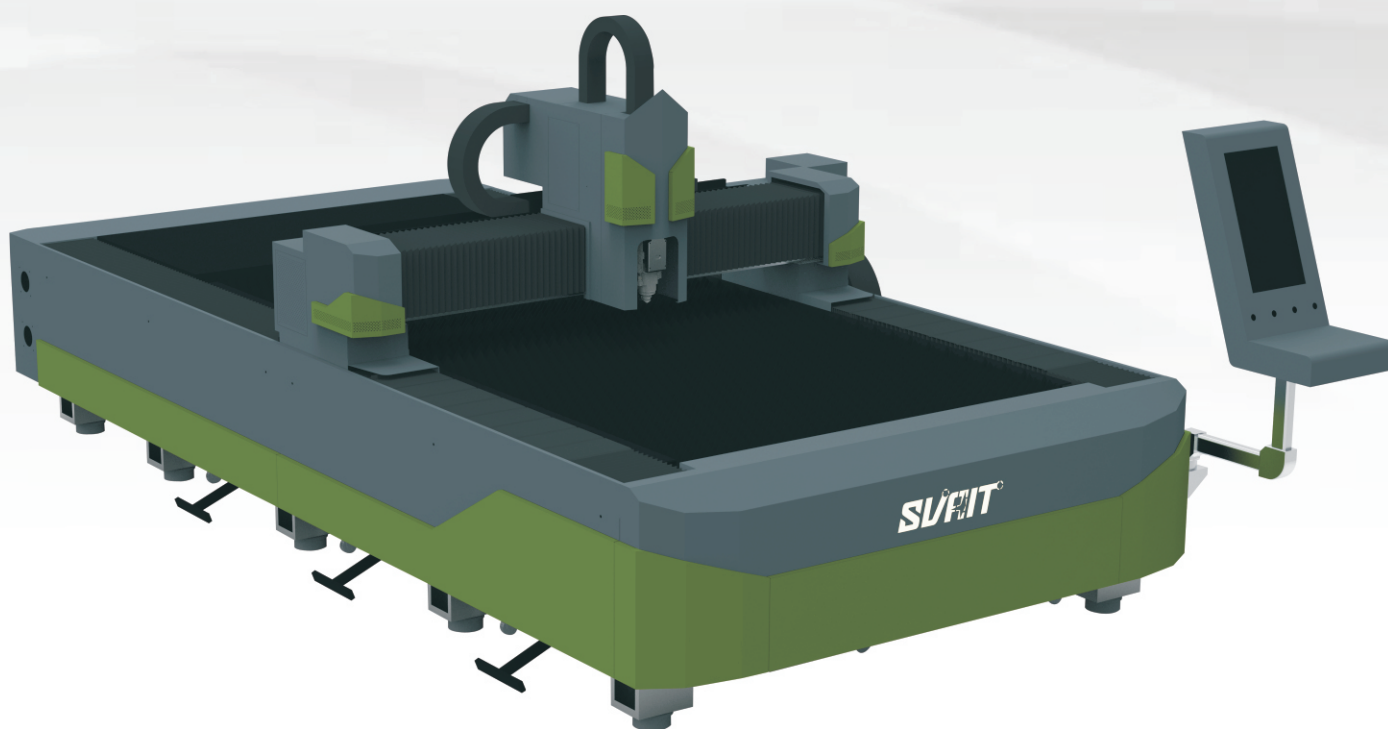
SVAIT machines are designed with precision drives and rigid structures, resulting in minimal vibration and noise, which increases machine life and ensures smoother operation. (Measure vibration levels at key points during operation.)

5. End-to-End Support

From installation and training to after-sales service, our team ensures your machine performs at peak levels throughout its life cycle.

Our Fiber Laser Cutting Machine

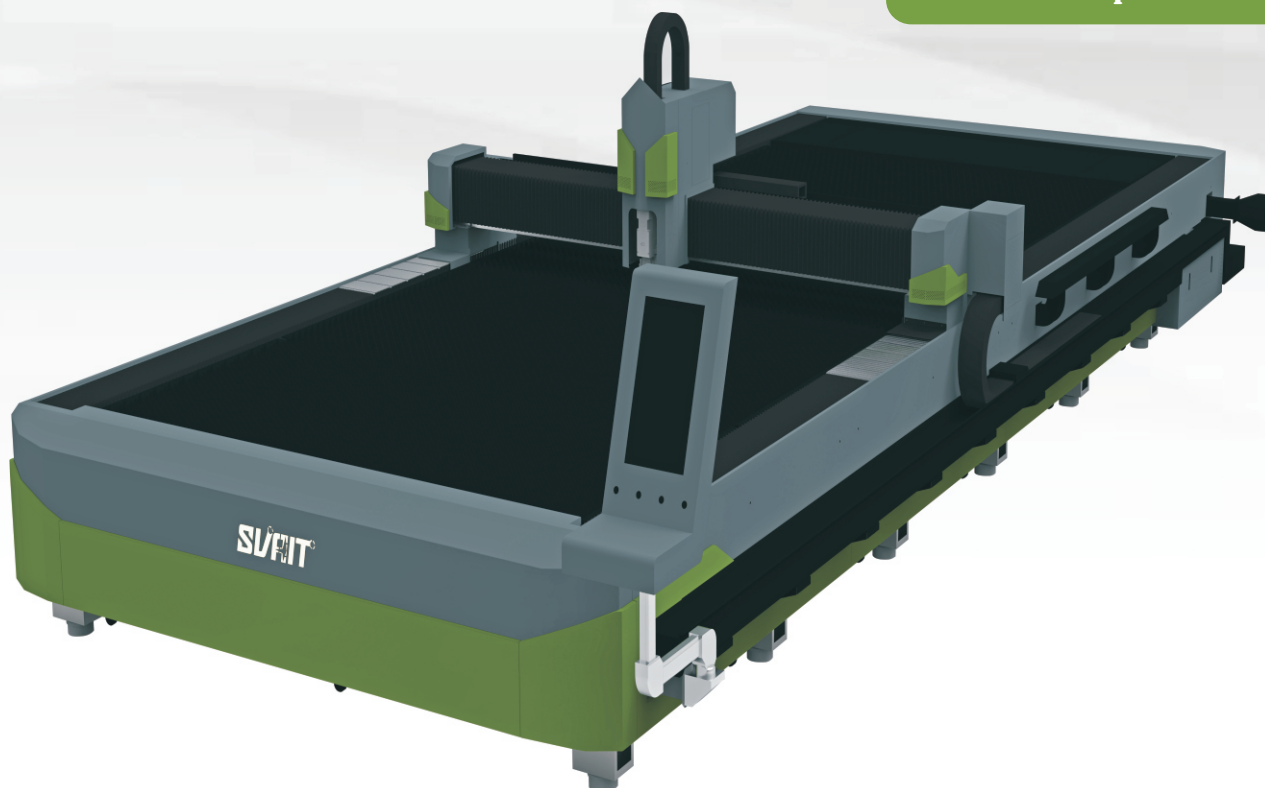
SVAIT Alpha 3015 Series



Parameter	Specification
Model Name	SVAIT Alpha 3015
Body Type	Open Type Structure
Laser Power Options	1.5 KW / 3 KW / 6 KW / 12 KW
Power Source Options	IPG / Max / Raycus
Cutting Head Options	Bochu / Raytools / Precitec
Working Area	3050 x 1550 mm
Z-axis Travel	120 mm / 150 mm / 200 mm / 250 mm / 300 mm
Max. Acceleration	1.5 G - 2.0 G
Positioning Accuracy	±0.03 mm
Repeatability	±0.02 mm
Machine Noise	75 Db
Operating Voltage	380V ±5%, 50 Hz, 3-Phase

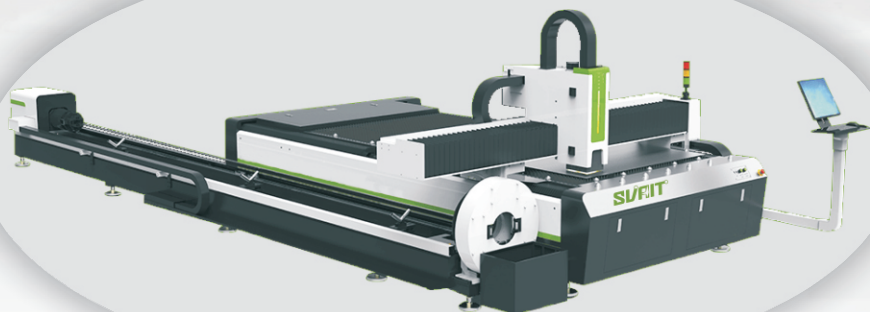
Our Fiber Laser Cutting Machine

SVAIT Alpha 6525 Series

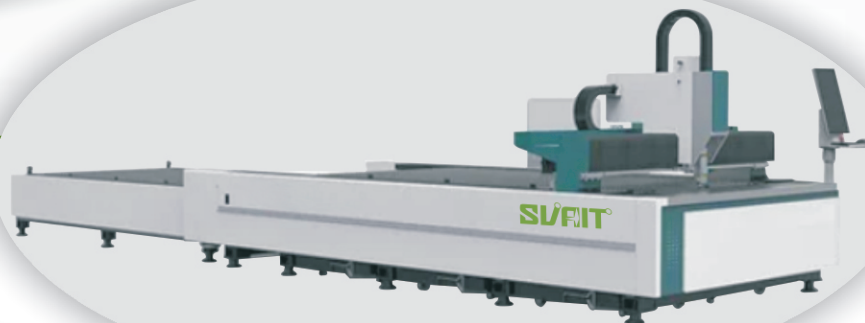


Parameter	Specification
Model Name	SVAIT Alpha 6525
Body Type	Open Type Structure
Laser Power Options	1.5 KW / 3 KW / 6 KW / 12 KW / 20 KW / 30 KW
Power Source Options	IPG / Max / Raycus
Cutting Head Options	Bochu / Raytools / Precitec
Working Area	6550 x 2550 mm
Z-axis Travel	120 mm / 150 mm / 200 mm / 250 mm / 300 mm
Max. Acceleration	1.5 G - 2.0 G
Positioning Accuracy	±0.03 mm
Repeatability	±0.02 mm
Machine Noise	75 Db
Operating Voltage	380V ±5%, 50 Hz, 3-Phase

Our Complete Machine Range



Our DuoCut Series



Our Beta Series



Our Delta Series

Machine Range	Available Models (Size in mm)	Body Type	Cutting Type	Laser Power Options
Alpha Series	3015 / 4020 / 6515 6020 / 6520 / 6525	Single Pallet Open Body	Sheet Cutting	1.5 KW to 30 KW
Beta Series	3015 / 4020 / 6515 6020 / 6520 / 6525	Dual Pallet Open Body	Sheet Cutting	1.5 KW to 30 KW
Gamma Series	3015 / 4020 / 6515 6020 / 6520 / 6525	Dual Pallet Closed Body	Sheet Cutting	1.5 KW to 30 KW
Delta Series	3000 / 6000	Tube Cutting Machine	Tube Cutting	1.5 KW to 6 KW
DuoCut Series	3015 / 6520 / 6525	Open Type	Tube + Sheet Cutting	1.5 KW to 12 KW

Our Handheld Laser Welding Machine



Parameter	Specification
Model Name	SVAIT Weld Pro Series
Laser Power Options	1.5 KW / 2 KW / 3 KW
Power Source Options	IPG / Max / Raycus / JPT
Laser Welding Head Options	Bochu / Raytools / WSX / IPG
Welding Mode	Continuous / Pulse
Cooling System	Integrated Water Chiller
Application Materials	MS, SS, GI, Aluminum, Copper

Welding Capacity Chart

Capacity	MS	SS	GI	Aluminum
1.5 KW	0.5 - 4 mm	0.5 - 4 mm	0.5 - 3 mm	0.5 - 3 mm
2 KW	0.5 - 6 mm	0.5 - 7 mm	0.5 - 4 mm	0.5 - 4 mm
3 KW	0.5 - 8 mm	0.5 - 8 - 10 mm	0.5 - 6 mm	0.5 - 6 mm

List of consumables and spare parts we can provide

At SVAIT Mechatronics, we ensure your machines perform at their best with readily available, high quality spares and consumables. With our strong supply chain and trusted partnerships, customers can rely on us for consistent performance, reduced downtime, and longterm reliability.

Spares We Offer :

Head Lenses (collimating & focusing lenses)

Nozzles (single & double layer, various sizes)

Ceramic Rings

Protective Lenses(UpperProtective & Lower Protective)

O-rings & Seals

Other Spare Parts :

Cutting Head Components (Raytools, Bochu, Precitec options)

Water Chiller Parts & Filters

Lubrication System Spares


Drive Motors & Controllers


Electrical & Control Accessories



SVAIT Mechatronics
Pioneering Laser Solutions For Industry 4.0.

Manufacturing Facilities & H.O. (Ahmedabad)

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