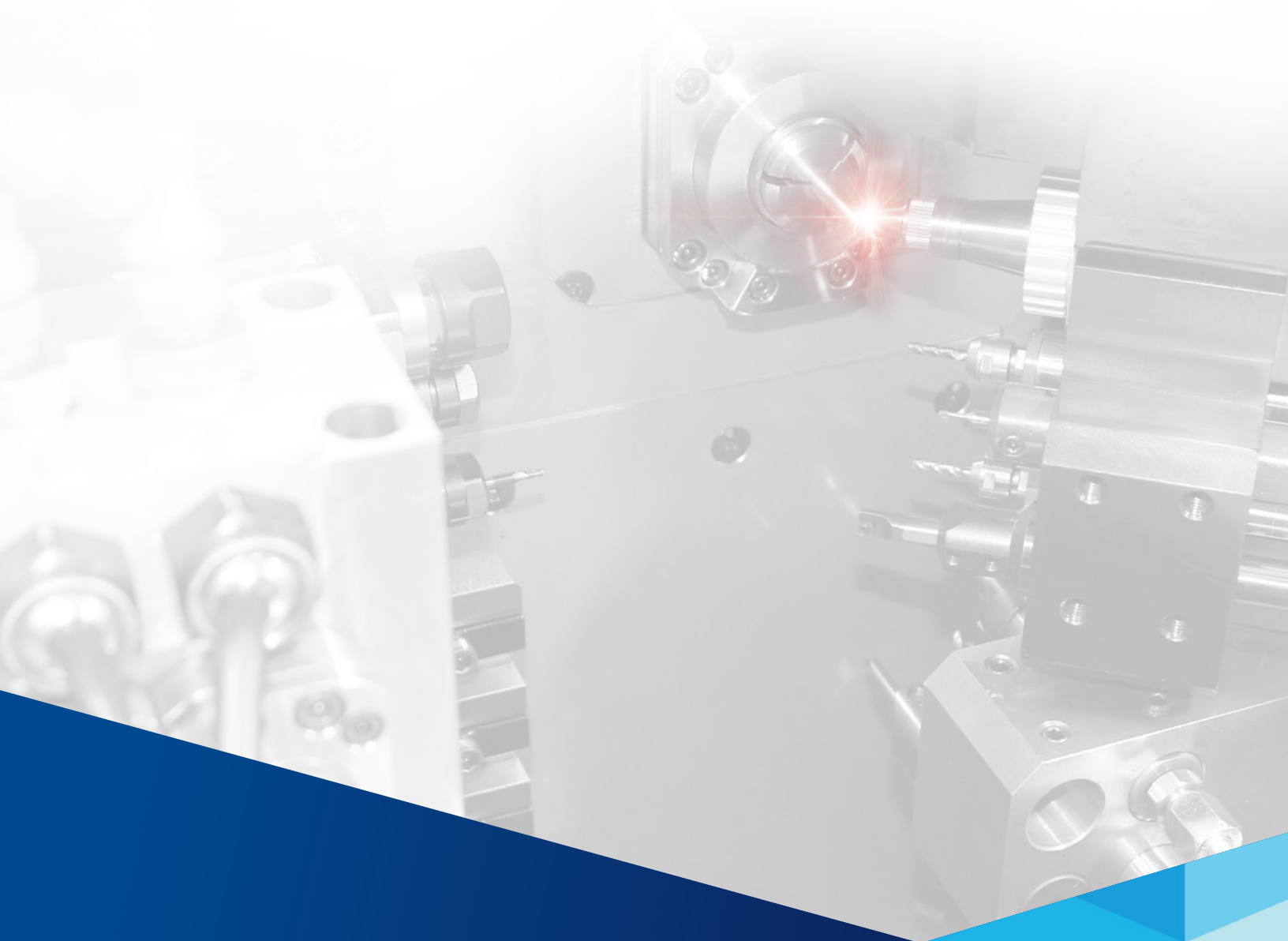




LaserSwiss Series

Swiss Turning. Laser Cutting. Laser Welding. ONE MACHINE.



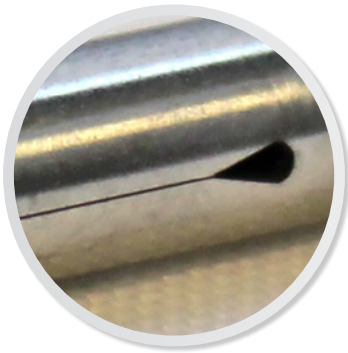
■ The World's Leading LaserSwiss

Designed, Built, Integrated in the USA

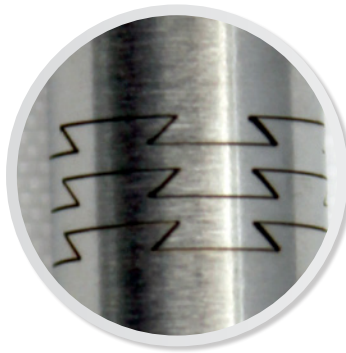
The seamless integration of laser cutting with traditional Swiss-type machining has applications in many industries to create clean, burr free edges and produce extremely delicate micromachined part features without the need of EDM. Some models feature a second laser head for welding.



The laser integration was designed to maximize flexibility and operator ease of use. All programming functions are driven from the standard machine code. Using the Laser as a cutting tool is as simple as programming an end mill.



.002 Slot width



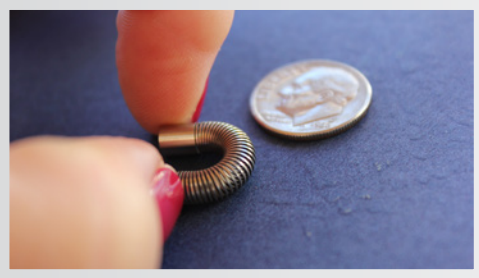
Puzzle cuts



Laser weld

LaserSwiss can create burr free slots as narrow as .0006 and spiral and puzzle cuts with kerfs ranging from .0006 to .013 inches. This capability permits the high speed micromachining of medical, hydraulic, connector and other parts from aluminum, titanium, stainless steel and other alloys, eliminating the need for secondary deburring and reducing scrap rates.

- Fully integrated Laser Cutting Systems available from 12 mm to 32 mm capacity
- Available in 100W to 750W power supplies
- Available with B-Axis Laser Cutting Head
- Available with a second laser head for welding
- Fully functional Swiss-type lathe with available thread whirling & other modular tooling



Laser Integration

Reduced Energy. Faster Processing. Greater Reliability.
Higher Productivity. Small Manufacturing Footprint.

Laser Fully Integrated with Machine Control

All programming functions are accomplished through the CNC control. Power, frequency, pulse width, gas pressure threshold and lens focus point are on the fly driven from the CNC program.

Response time is less than 10 milliseconds!

Compact Laser Head Design

To enhance laser cutting accuracy, the laser head is precisely mounted very close to the spindle centerline and guide bushing.

Part Programming

Partmaker and Esprit programming systems can be used to generate LaserSwiss programs.

FDA Class 1 Laser Enclosure

Safety features on this machine include: laser safety glass, dual safety interlocks, labeled safety details on all machine access points and a laser firing function that turns off any time safety switch is open or estop is activated.

Through Coolant Capability

Reduces dross and the heat affected zone in the material. Molten metal is washed away as the part is cut.

In-House Fabrication

Full time in-house engineers and toolmakers design and manufacture LaserSwiss components. It's all they do. Obtaining parts is never an issue.

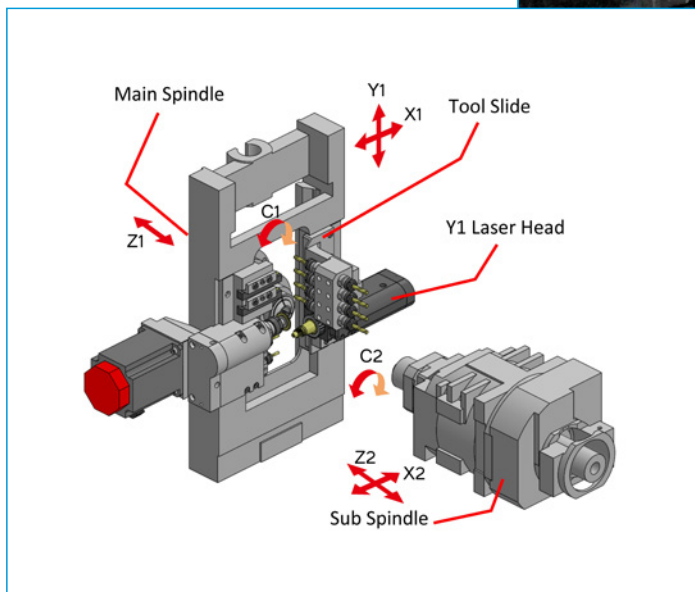
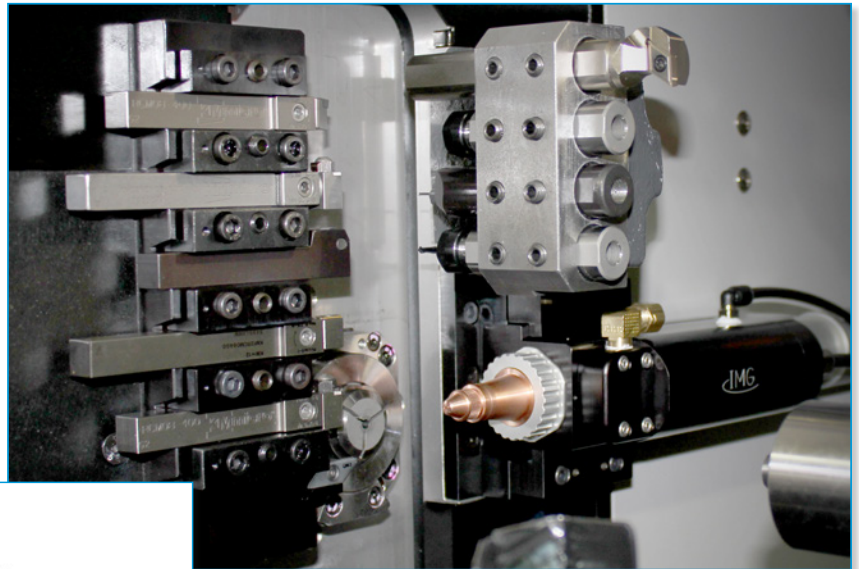


Variety of Machining Capabilities

Choose What Fits Your Needs.

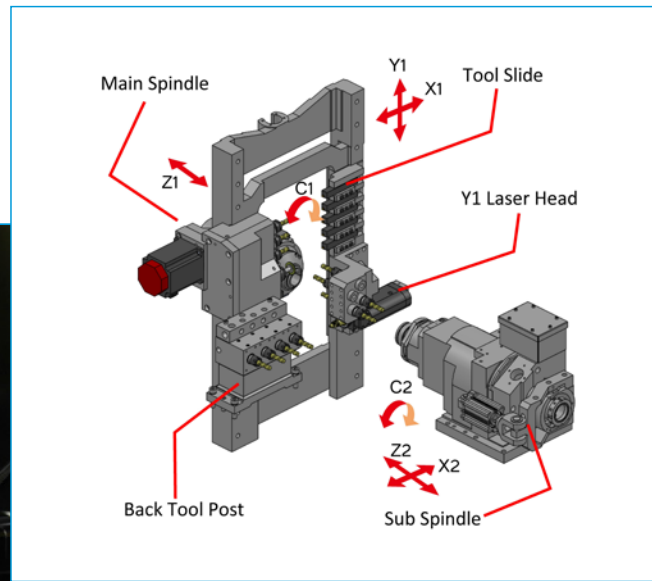
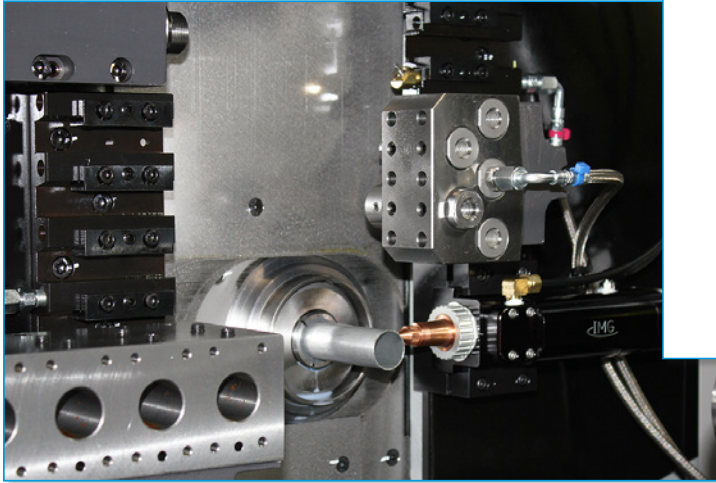
Compact

B0125 12 mm, 3-Axis



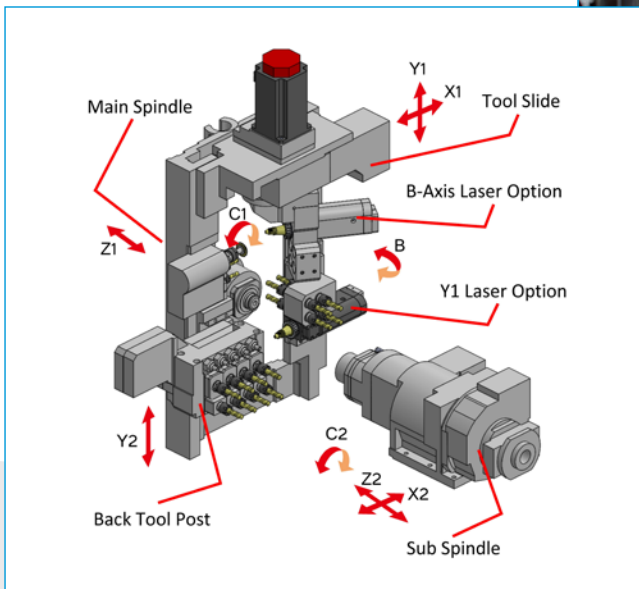
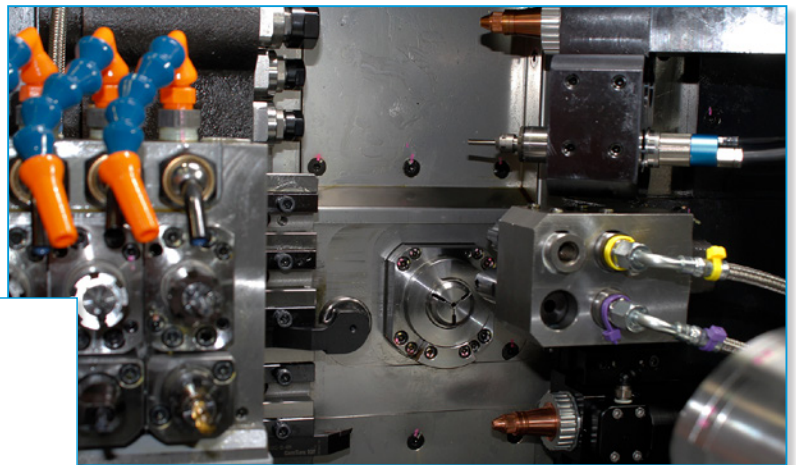
Larger

B0325 32 mm, 5-Axis



B-Axis Equipped

SS207-5AX 20 mm, 7-Axis
with 2nd Laser for Welding



Key Features - Compare Models

B0123 | B0125 | B0203 | B0205 | S205 | S206 | B0325 | B0326 SS207-5AX | SS327-5AX

	Model	Spindle Capacity	Linear Axes	Standard Laser Axis	Optional Laser Axes	Fanuc Control	Main Spindle Max RPM	Sub Spindle Max RPM
COMPACT MODELS	B0123	12 mm	3	Y1	-	0iTF	12,000	12,000
	B0125	12 mm	5	Y1	-	0iTF	10,000	12,000
	B0203	20 mm	3	Y1	-	0iTF	10,000	10,000
	B0205	20 mm	5	Y1	-	0iTF	10,000	10,000

STANDARD MODELS	S205	20 mm	5	Y1	-	32iB	10,000	12,000
	S206	20 mm	6	Y1	Y2	32iB	10,000	12,000
	SS207-5AX	20 mm	7	B (0°-110°)	Y1	31i-B5	10,000	12,000
	B0325	32 mm	5	Y1	-	32iB	8,000	8,000
	B0326	32 mm	6	Y1	Y2	32iB	8,000	8,000
	SS327-5AX	32 mm	7	Y1	B	31i-B5	8,000	8,000

All models are available with a variety of fiber laser power supplies from 200W to 500W CW



"There are other ways to run parts, but they're not as fast or accurate. The Tsugami is very responsive."

DAVE SCHELL
CNC Machining Manager, Pulse Systems

"LaserSwiss provides our customers with new product design possibilities in a way that yields the lowest total cost. That's a 'win-win' for everyone involved."

ALAN CONNOR
CEO, Cadence, Inc.

"We looked at other machines that combine Swiss turning and laser cutting, but there just wasn't really any comparison. They've integrated the laser so well and the support we get is unbeatable."

JOHN FRANCHI
Principal, Northeast Laser & Electropolish

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