OUR BUSINESS SECTORS:

- AUTOMATION UNITS
- MEASURING AND AGEING MACHINES
- ASSEMBLY AND MACHINING EQUIPMENT
- SUBCONTRACTING

SWISS MADE

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- ASSEMBLY AND MACHINING EQUIPMENT

UNIMEC

Laser machines

WELDING, CUTTING, MARKING AND ENGRAVING

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ASSEMBLY AND MACHINING EQUIPMENT

Laser machines

UNIMEC

The equipements - welding, cutting, marking and engraving

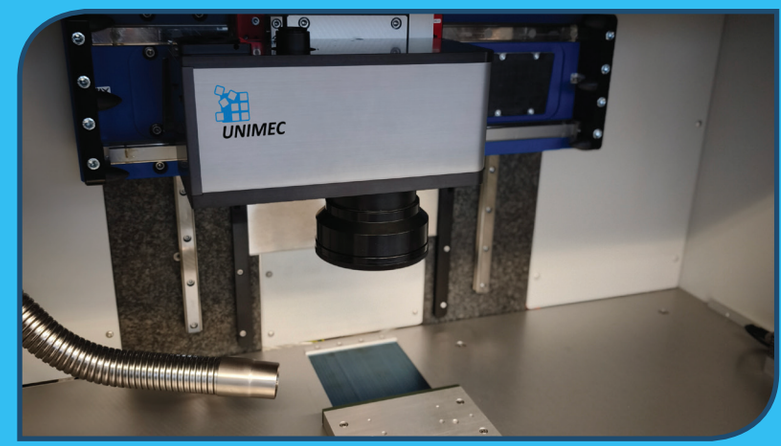
Our 3-axis laser machine (with an optional 4th axis) offers high precision and is ideal for both prototyping and mass production. Depending on your application, we can integrate different laser technologies, such as fibre lasers (millisecond or nanosecond) and femtosecond lasers (green and infrared wavelengths).

Femtosecond technology

Integrating femtosecond lasers enables cutting, marking, engraving and decorating to be carried out with exceptional precision and quality. Thanks to this technology, the need for post-treatment (e.g. polishing or deburring) is greatly reduced or even eliminated.

Interface

The touch-sensitive, user-friendly interface can be adapted to your specific requirements. It enables both machine settings and laser parameters to be configured.



Industrial Vision

An integrated machine vision system enables the precise detection and repositioning of parts to be welded or engraved in a reliable and fully controlled manner.

Precision

The granite machine base, combined with the latest linear motors, ensures extreme precision and repeatability throughout the entire process.

Welding quality

This machine is equipped with the latest generation of lasers, which guarantee the quality and repeatability of the welding spot, as well as the perfect alignment of the components to be welded.

Technical data

Strokes (x/y/z)*	300 x 200 x 200 mm
Max. load (z)	20'000 N
Max. speed x/y	3m/s
Max. acceleration axis x/y	30m/s
Repeatability	± 2µm
Welding power (ms fibre)*	from 250W to 3kW
Engraving and marking power (ns fibre)*	20/50/100W
Welding power (femto)*	from 5 to 80W (more on request)

*Data for guidance only, we will adapt the solution to best suit the customer's needs.