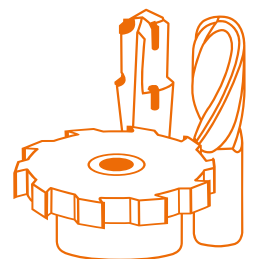




VLaser 370

//////// ROTARY TOOLS //

Machine for laser machining
of rotationally symmetrical tools
from ultra-hard materials

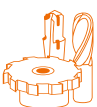


// LASERING - OUR SOLUTION WITH HIGH-PRECISION KINEMATICS

Why a laser? Why from VOLLMER? Because in addition to eroding and grinding, this laser process completes our range for machining rotary tools. Because we want to offer you more than just a very specific process. We want to provide you with exactly the process you need. Especially for ultra-hard materials such as PCD, CVD-D and MCD. Handling and machining tools with a diameter of 150 mm and a length up to 250 mm makes the machine absolutely versatile. High machining flexibility and the best quality and surface finish - that's what we developed the *VLaser 370* for.



The *VLaser 370* is very flexible, highly efficient and thus achieves maximum productivity. It works without making contact, without tool wear and without any significant thermal influence. The combination of efficiency, accuracy and high cutting edge quality helps to increase the operating life of your tools and contribute to the sustainable optimisation of your manufacturing processes. It is equally suitable for manufacturing and sharpening your tools. And of course we also offer automation solutions for unmanned machining around the clock. VOLLMER continues to achieve maximum sharpness in an efficient way.



// THE HIGHLIGHTS

/// Our solution with high-precision kinematics

At the core of the *VLaser 370* is its fixed laser beam guidance with innovative machine kinematics. The way in which the five axes are arranged on top of each other means that the tool is always machined at the pivot point of the C-axis. This makes it possible to machine tools with minimal axis movement and to ensure stable process control. At the same time, the kinematic chain enables high path accuracy, which has a positive impact on the machining accuracy and quality of the tools.

/// Fixed beam guidance

Fixed beam guidance means no movement in the beam path. The beam guidance housing fixed on the central block offers the advantage of increased process stability and permanent positional accuracy in the focal point. This ensures a consistently high quality of your tools.

/// Machining of chip guide noches

VOLLMER's laser technology can be used to optimise different processes in tool manufacturing, including the machining of chip guide notches. This involves incorporating notches behind the tool cutting edge in order to influence the cutting properties.

/// Intelligent operating concept and simple application

The operating philosophy of the *VLaser 370* has been tried and tested many times, and is already familiar to our customers from the *VPulse 500*. It impresses with its simple, user-friendly application thanks to an intuitive user interface. It can be operated directly via the touchscreen on the control desk or with a mouse and keyboard. High functionality due to ability to determine the sequence of order processing, flexible intervention options and integrated parameter management. The system is IoT-enabled and allows you full transparency regarding your machine and processes.

/// Low-maintenance linear drives

All axes of the *VLaser 370* are equipped with linear motors, and the rotary axes are equipped with torque motors. Unlike ballscrews, they are not subject to wear and work contact-free, making higher axis speeds and accelerations possible. Integrated glass scales in all axes ensure optimum stability and extremely high positioning precision.

/// Compact and carefully-considered design

The *VLaser 370* convinces with a carefully-considered design, the highest possible rigidity, and outstanding damping thanks to polymer concrete. With the *VLaser 370*, VOLLMER also has the right automation solutions ready – for unstaffed machining in production and service. Around the clock.

/// Unique on the market – optional counter point

The *VLaser 370* can optionally be equipped with a counter point to achieve even higher concentricity. This makes the *VLaser 370* the first laser machine on the market to have such a counter point.





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**VLaser 370 – YOUR MAIN ADVANTAGES
AT A GLANCE:**

/// MORE PRECISION

Innovative kinematics for highest quality of result, stable process control, high path accuracy.

Let the uncompromising precision convince you.

/// MORE FLEXIBILITY

For use in production or for resharpener. With automation solutions for use around the clock. Experience productivity on a new level.

/// MORE USER COMFORT

Good accessibility, ergonomic, intuitive control panel and comprehensive software.

Make your work easier.

