

# Laser- technology

## The hybrid system from Citizen – precision turning and laser cutting/welding.

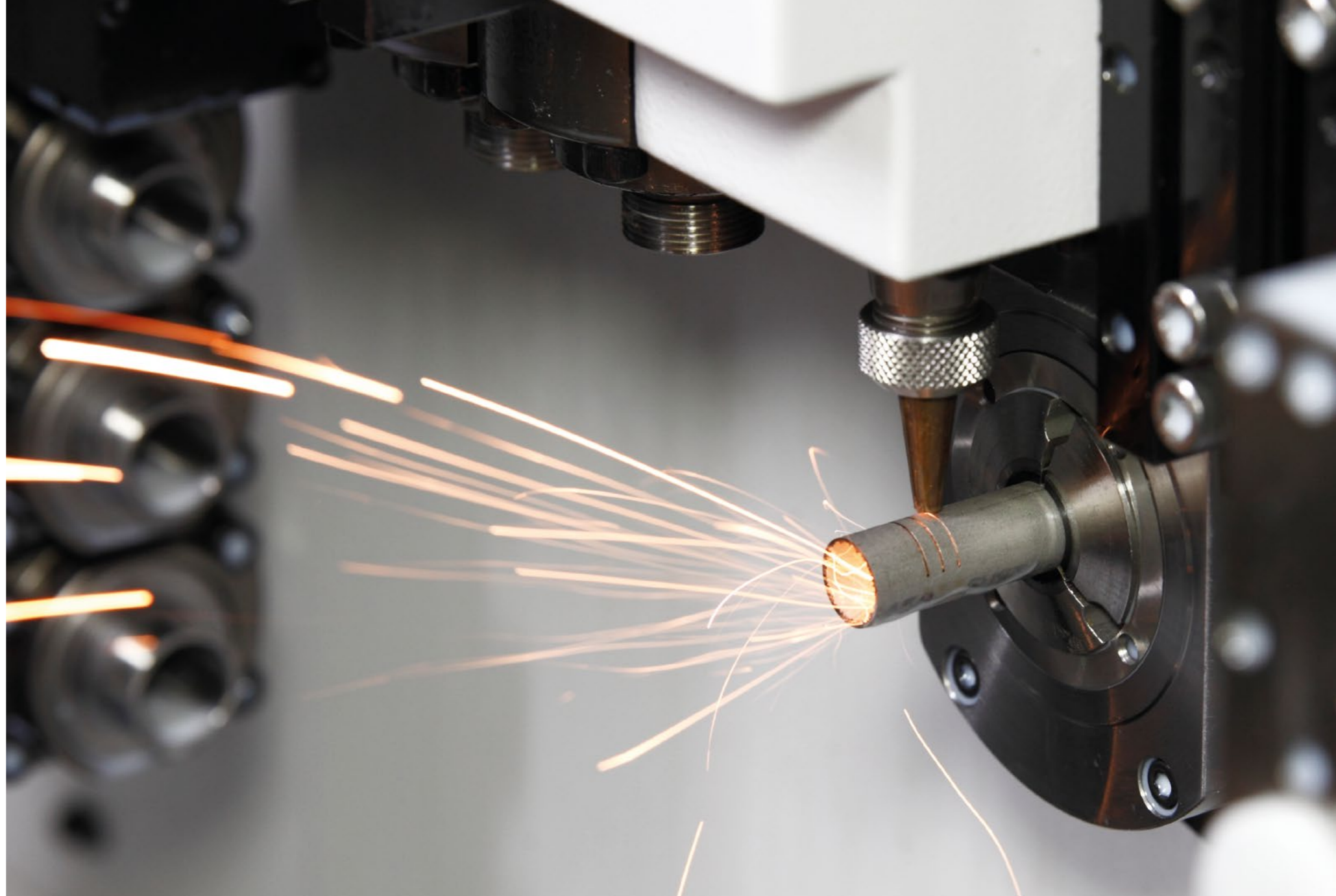
Thanks to a state-of-the-art conversion kit, it has become possible to expand the functionality of a lathe by laser technology and enhance the metal processing range significantly.

The laser primarily adopts the part of a cutting tool, can also weld, supplements the usual cutter and replaces the latter in microscale applications. The strength of the hybrid system, comprising a lathe plus a laser system, lies in the repeatability as all sub-processes are handled on just one machine. This saves acquisition costs for a new stand-alone laser machine and also production costs when distributing the manufacturing process between two machines.

## Advantages

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- ⊕ Filigree cutting
- ⊕ Corner radius close to 0
- ⊕ Long service life (approx. 20.000 hours)
- ⊕ Turning and laser machining in one machine



+ Laser cutting enables the cutting out of complex filigree structures in thin materials. Cutting process dynamics may directly be influenced by the parameters laser power, beam quality and wavelength of the laser light as well as the focus diameter.

