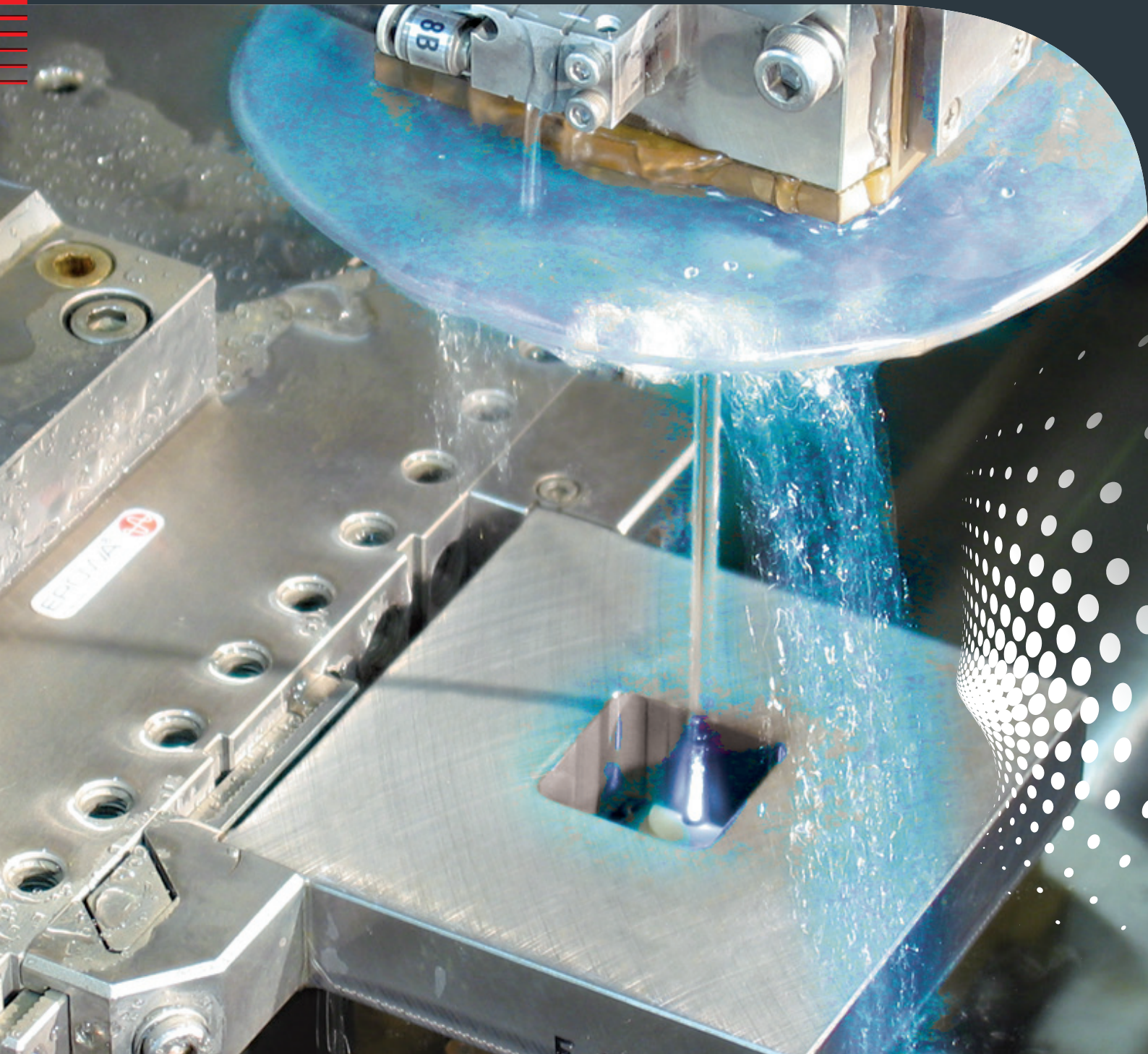




Wire EDM Tooling

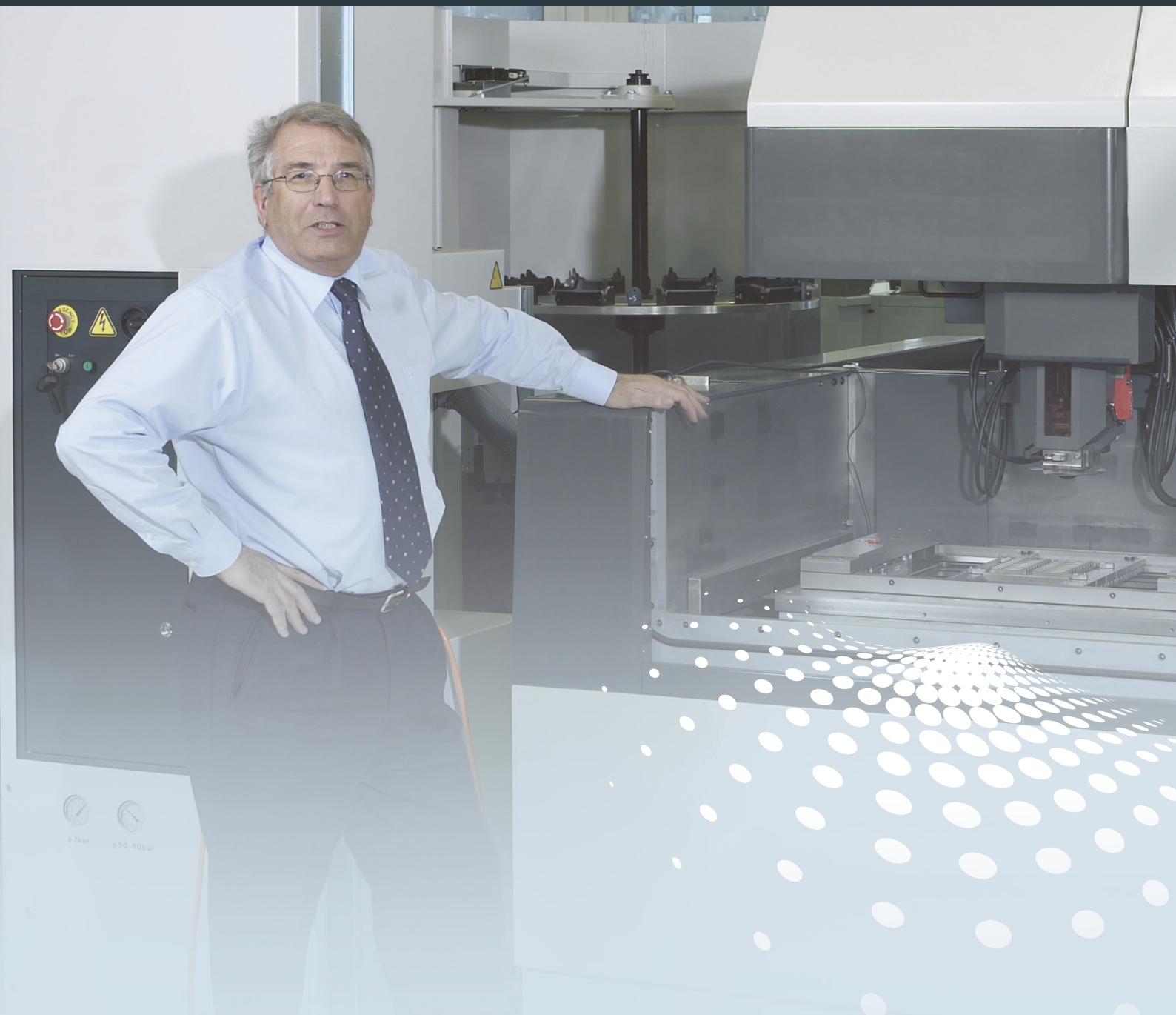
The tooling system for WEDM

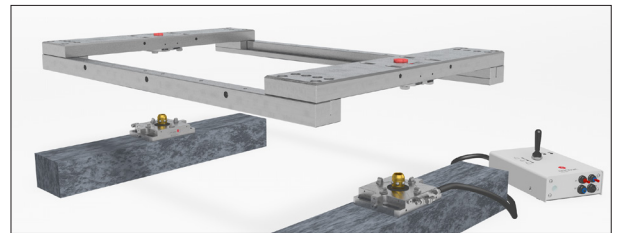
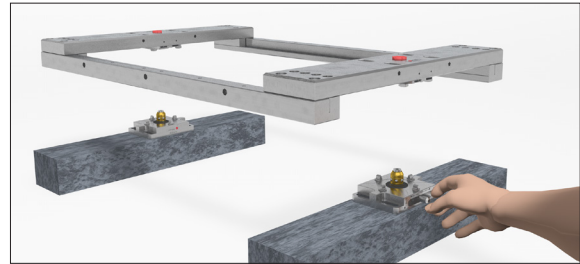
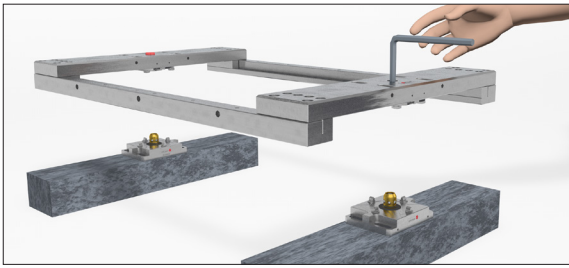


The right choice

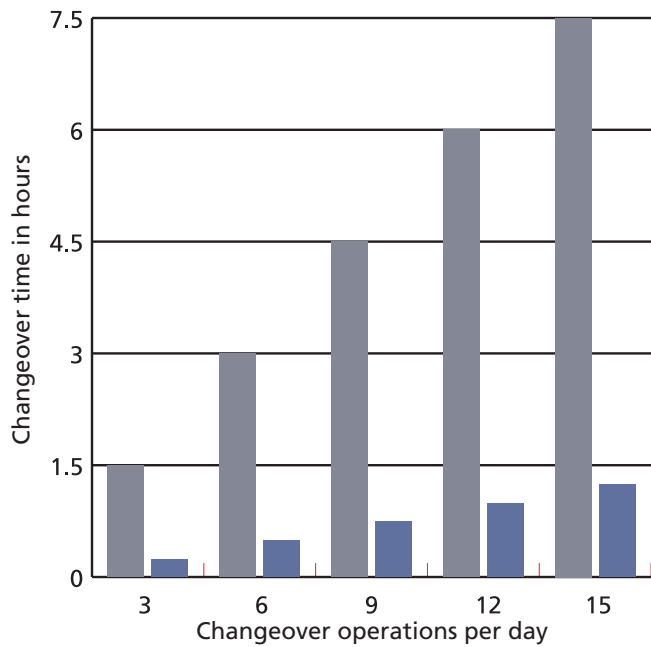
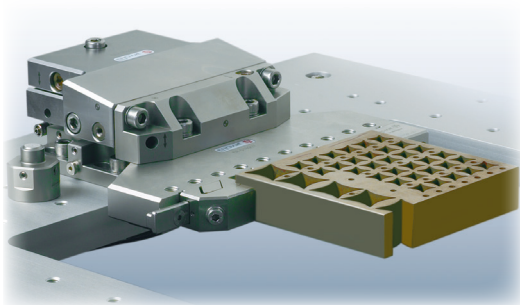
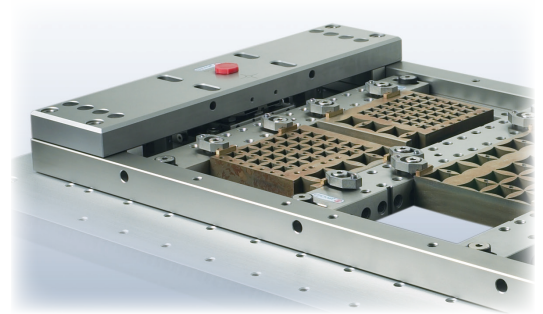
The expandable EROWA Wire EDM tooling system.
It grows with your needs.

"We gain 660 productive hours per year.
This makes us very competitive!"





Optimal use of the machine is a key factor for competitiveness.



without EROWA tooling system
with EROWA tooling system

(1x changeover approx. 30 minutes)

THE FACTS

- More ROI
- Less set-up time
- For each size of workpieces the matching workpiece carriers

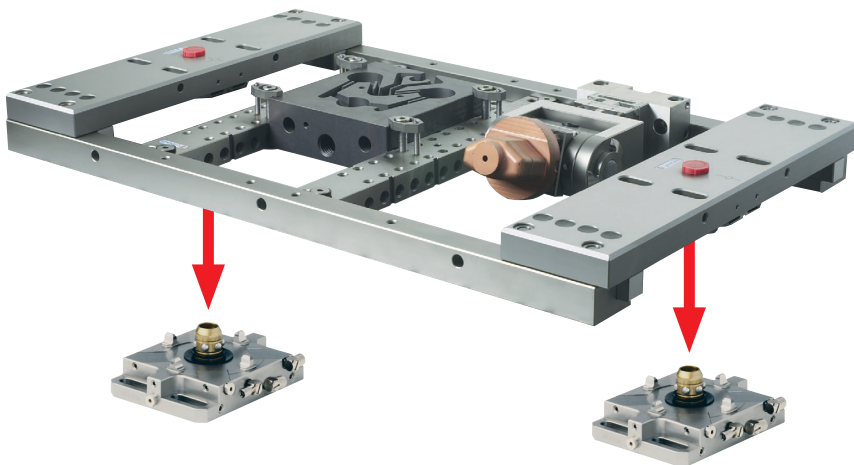
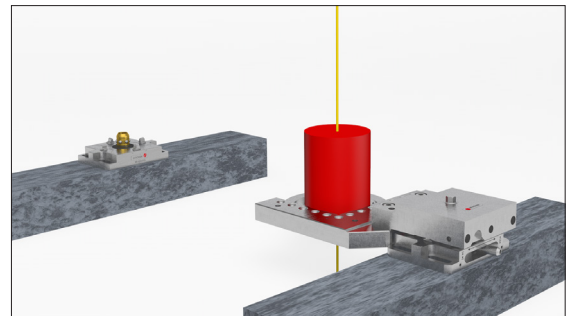
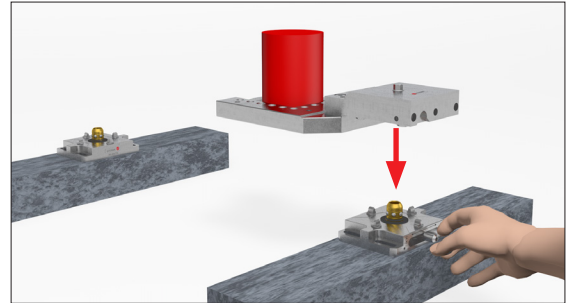
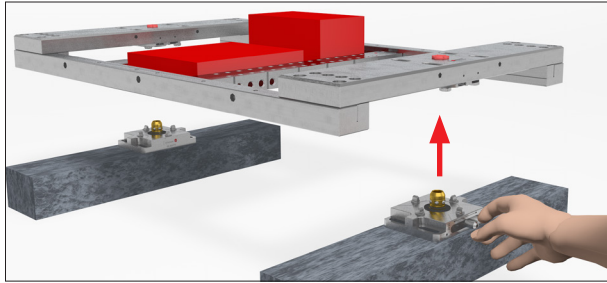
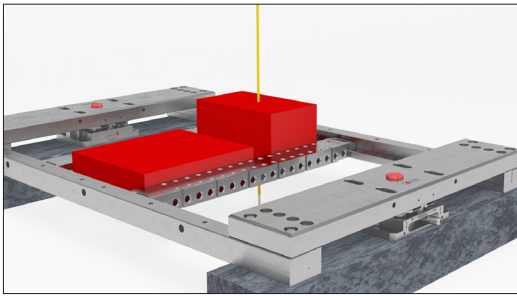
The machine remains productive

While the next order is prepared, the machine remains productive. The set-up work is performed in an optimal environment and without time pressure. The lead time drops significantly because no set-up work is performed on the machine.

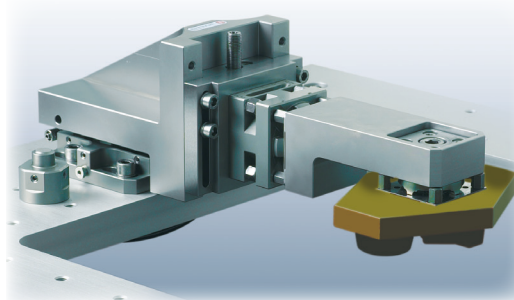
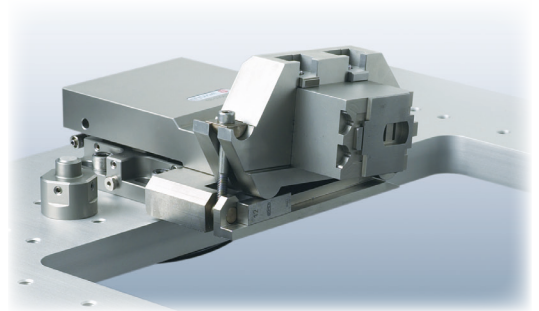
"I have plenty of time for careful and proper preparation, while the machine is running!"



Express? But of course!



Clamping frame – for small and large workpieces.



Z-Vario – each workpiece at the correct height.



THE FACTS

- Set-up during main time
- Less downtime
- Flexible mountings

Everything is possible

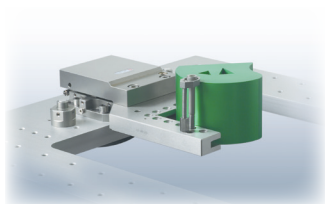
For every application the proper equipment.

With sophisticated combinations of vises, clamping elements and clamping beams, you can clamp all conceivable workpieces. The repeating accuracy of the EROWA Wire EDM system allows presetting outside the machine and safe automated loading. Running jobs can be interrupted for express jobs and resumed later.

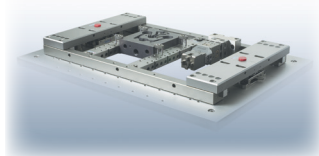




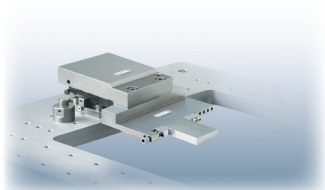
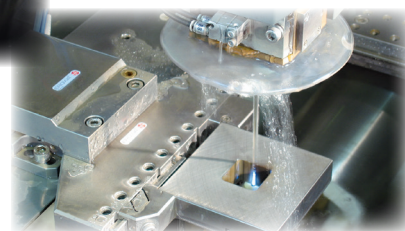
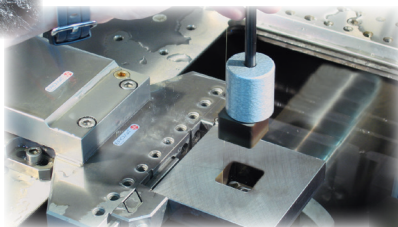
Removing defective parts next to the machine. Finishing in the same mounting.



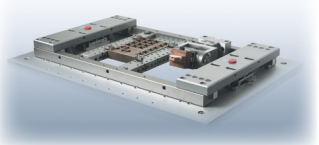
The universal vise. Leaves hardly any application needs open.



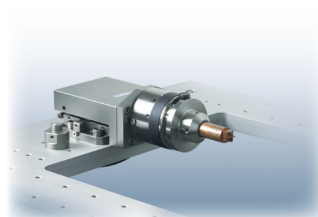
Multiple-part palletizing increases the autonomy of the machine. Makes use of the unmanned shift.



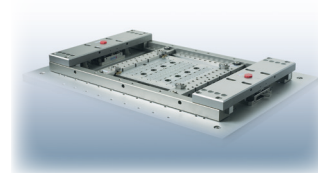
Free access for the wire guide, even if the workpiece is only a few millimeters thin.



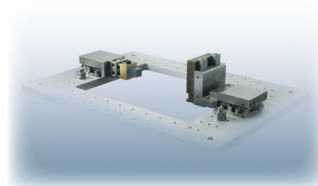
Combination of frame and UnoSet for electrode machining.



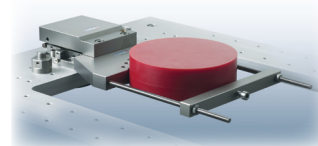
The perfect connection to electrode manufacture.



Large workpieces are clamped individually.



Single-part palletizing in the manned shift. This is where the tricky tasks are handled.



Special mounting for cylindrical parts. Mounted to the pendulum holder, the workpiece is adjustable in three axes.

THE FACTS

- Full use of the cutting area
- For small and large workpieces.
- Z=0 for process reliability

The components

Clamping elements for the fixtures

ER-033958



ER-031952



ER-062788



ER-008231



ER-008875



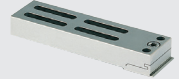
ER-008873



ER-007990

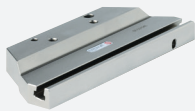


ER-008220



Fixtures for the adapters

ER-031945



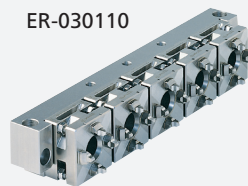
ER-017645



ER-019248



ER-030110



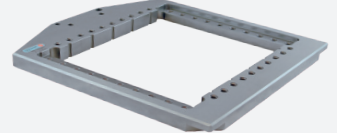
ER-018940



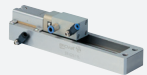
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ER-018941



ER-025115



ER-041179



ER-035294



ER-035156

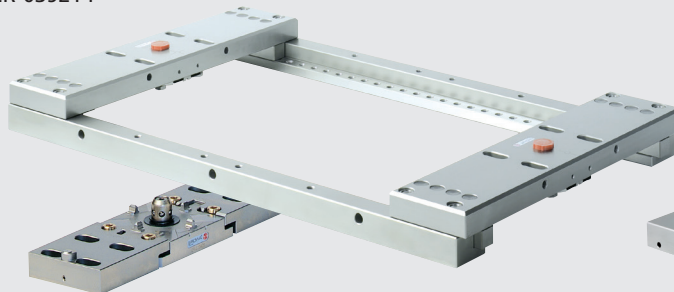
ER-033955



ER-031942



ER-039214



ER-037888



ER-055158



Interfaces for the machine table

ER-040641



ER-008221



ER-029229



ER-029228



ER-025895



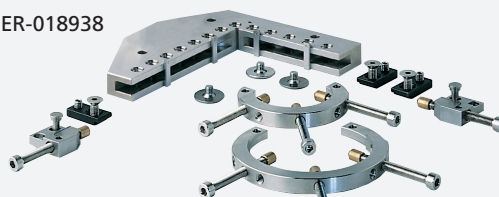
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ER-038891



ER-018938



ER-018937



ER-055774



ER-051800



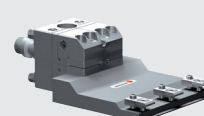
ER-008814



ER-008842



ER-052091



ER-038710



ER-033974



ER-007935



ER-008856



ER-016691



ER-030678



ER-039795



ER-014722



ER-014698



ER-055535



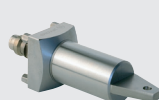
ER-030923



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ER-028471



ER-035714



ER-035715



ER-017198



ER-007852

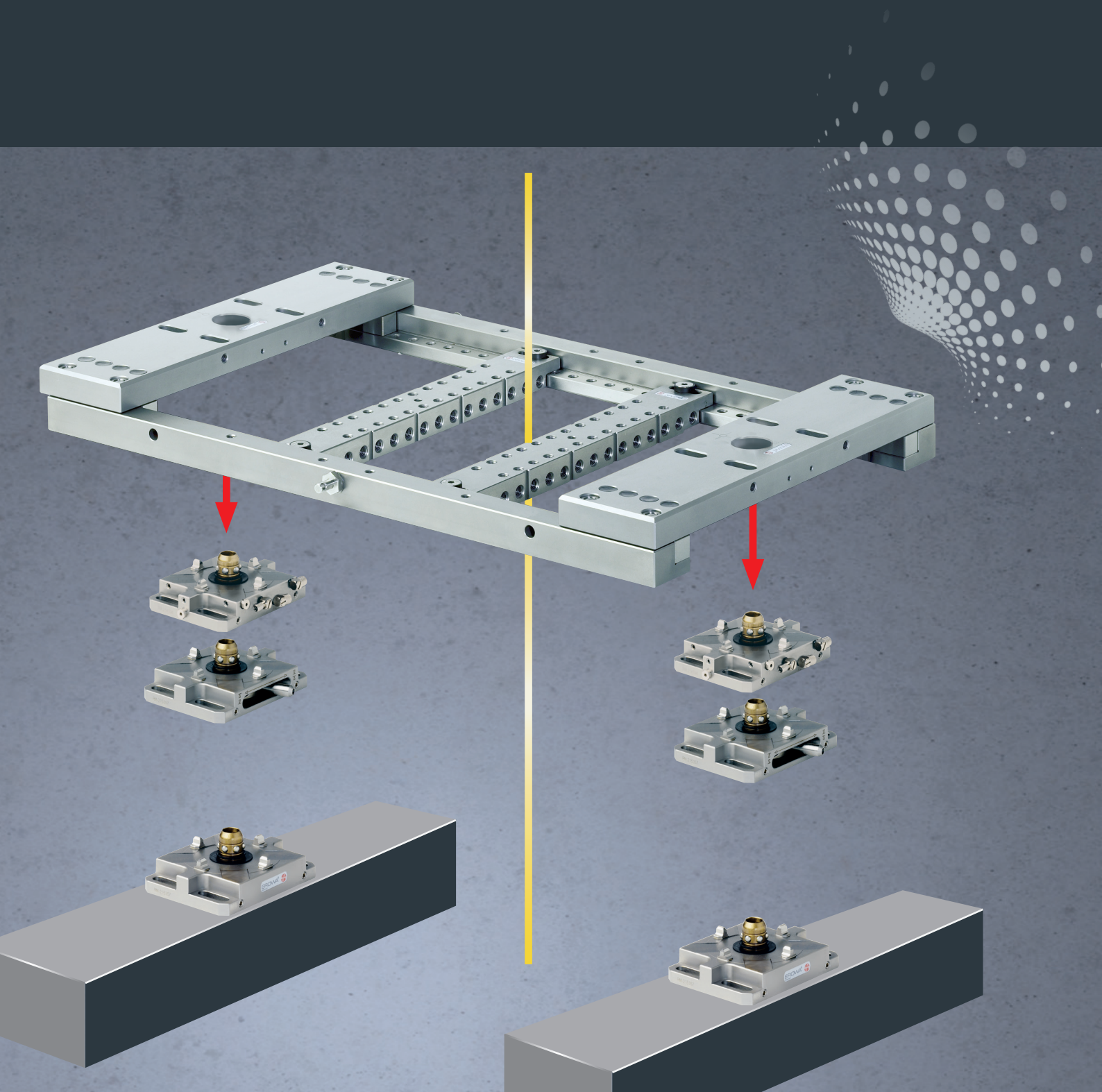


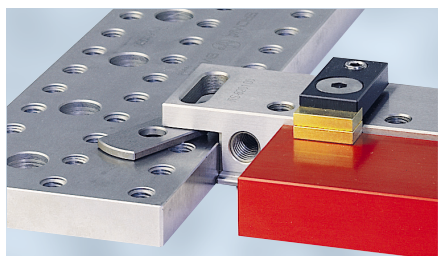
ER-022583



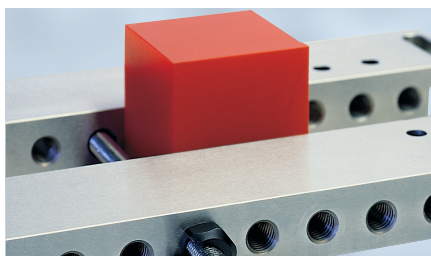
Intelligent, precise, variable and extendable

Simply remove, if the workpieces are getting too large.
The base is rebuilt and ready for use in 30 minutes.





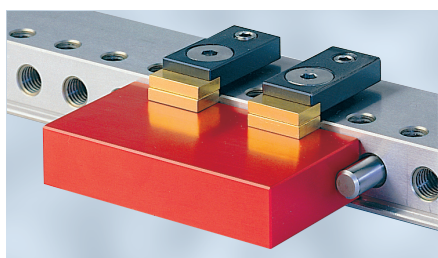
The pad raises the clamping beam with fixed support to $Z=0$.



Clamping as in a vise: with the threaded rods and clamping beams.



Using removable supports where they are useful. EDM wire threading through special groove.



Accurately positioned with the stop pin.



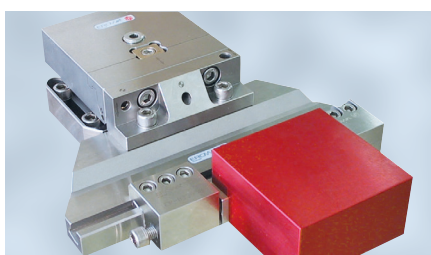
Spacer support mini for small parts.



Adjustable in all axes: the pendulum holder.



For free access of the wire guide: the uni-grip vise.



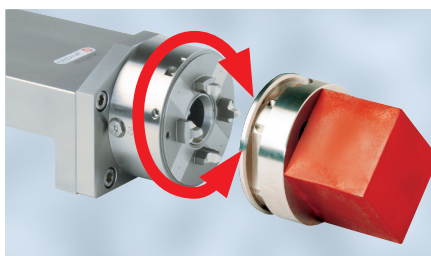
The vise with fast adjustment.



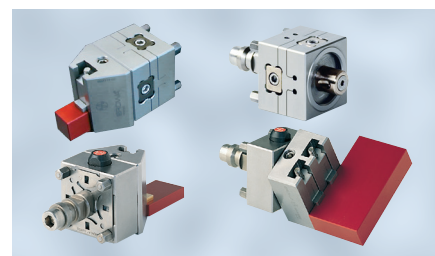
Quick conversion with modular elements.



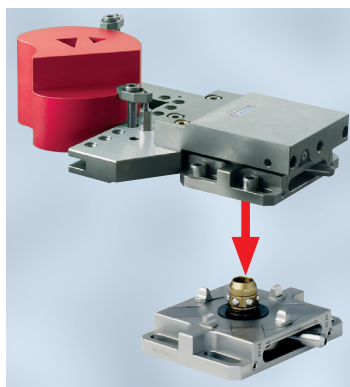
For a special angle, continuously adjustable by 90° .



4 x 90° indexing, positioning assured in 0.002 mm.



Vises with continuously rotating clamping part.



Single-part palletizing:

On the same basis as the clamping frames. Intelligent vises for clever mounting of workpieces.

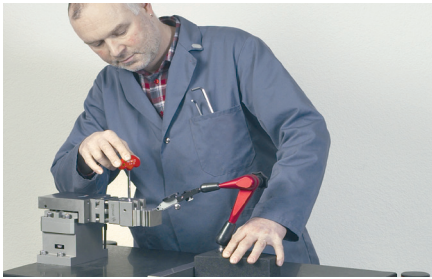
THE FACTS

- Mounting for all parts
- Special solutions
- 3D alignment elements

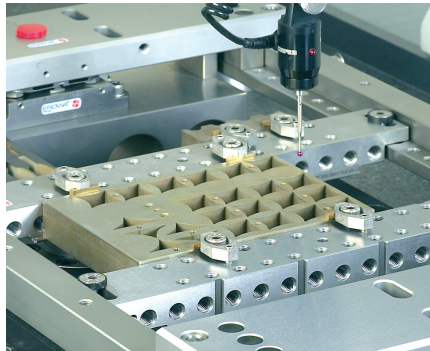
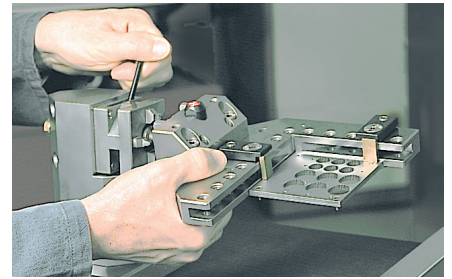
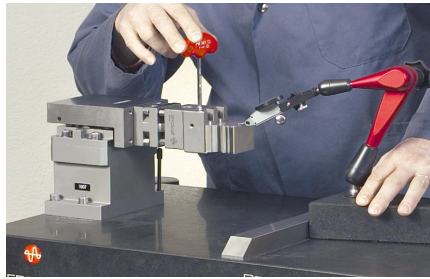
Organizing workpieces

Presetting and measuring workpieces and electrodes are tasks that can be done more efficiently on a set-up and presetting station. Set-up during actual production gives more productive time on the machine tools. Fast in-between measurements allow the operator to manufacture with more reliability.





Determining starting borehole coordinates, establishing the spatial location of workpieces, and performing quick intermediate checks.



Accurate presetting of workpieces facilitates subsequent work.



Easy and fast presetting in the micron range.

Increasing productive time through automation

Automatic loading of machine tools considerably increases the proportion of productive hours. Production systems may be automated in many different ways. With a large selection of EROWA handling systems, we can meet your requirements with regard to transfer weight, magazine capacity and control interface.



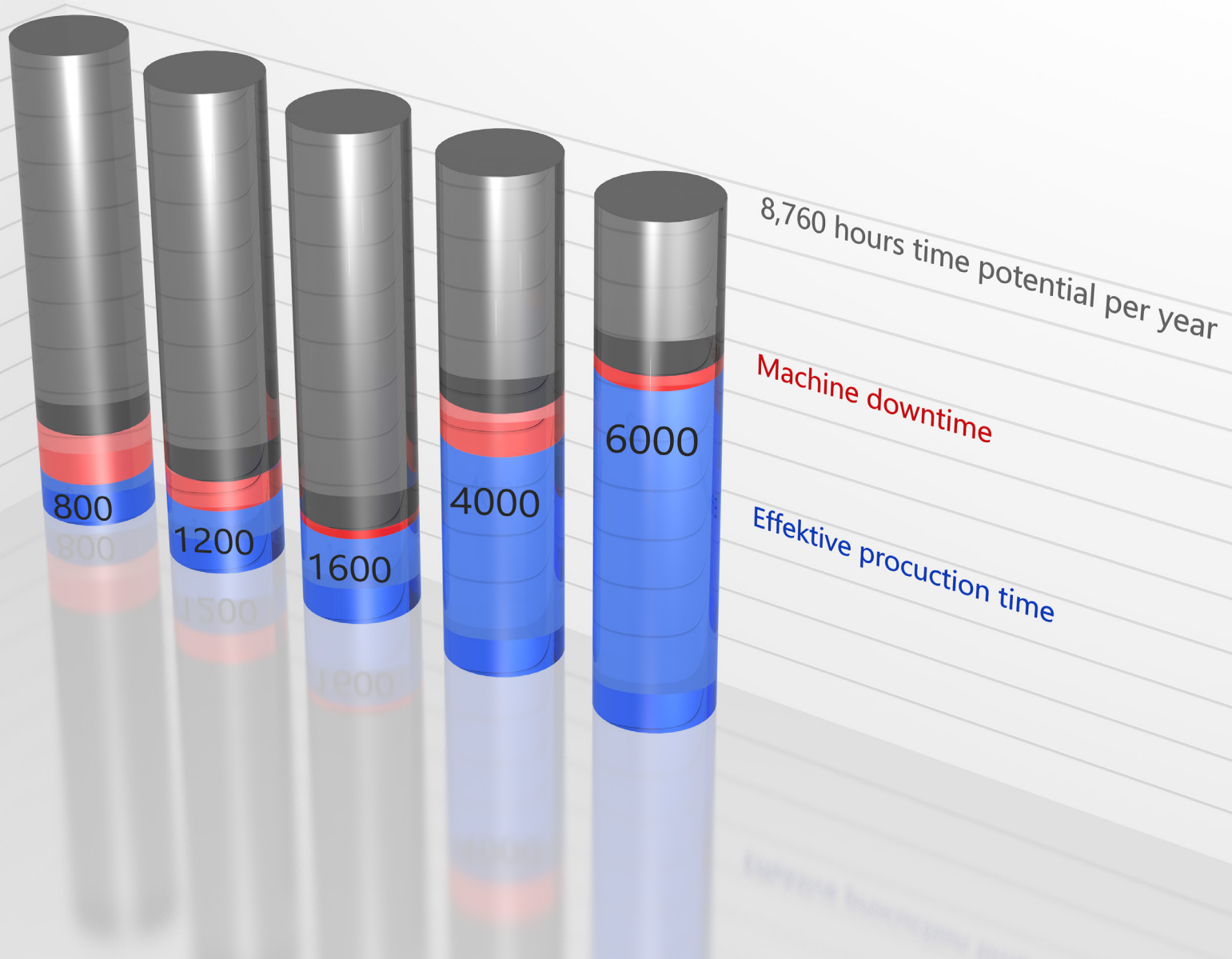
We have the right automation solution also for you!
EROWA provides a wide selection of various handling facilities.
We'll be happy to advise you!



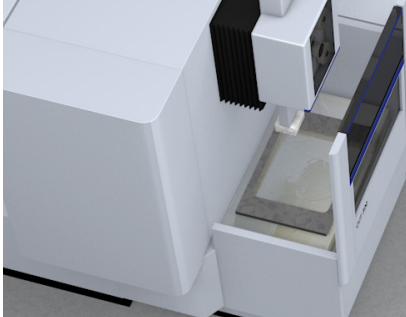
The workpiece carrier is positioned precisely on the chuck.

Efficiency improvements

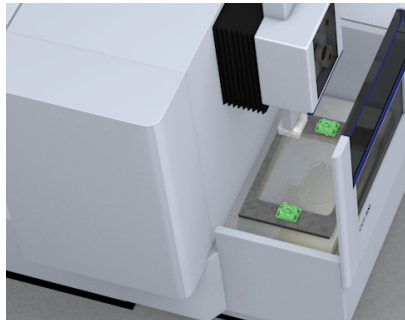
In many companies, the production facilities are not optimally used. Quality and feasibility of new products were in the foreground until recently. These expenses were also paid for until a few years ago. Increases in capacity were offset by investments in new machines.



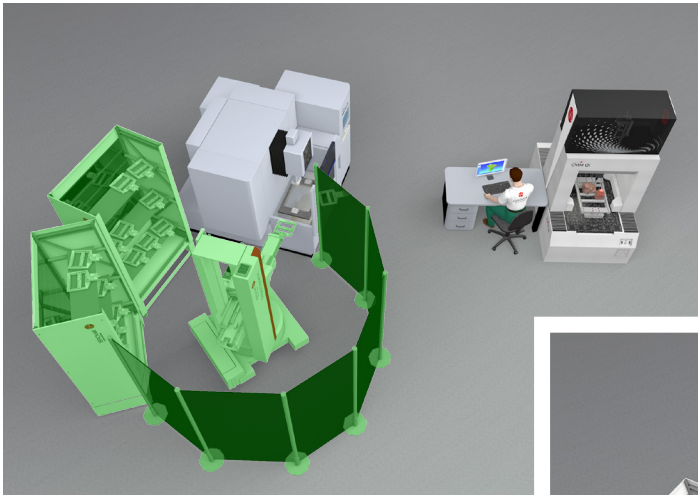
Gaining time and saving money with EROWA



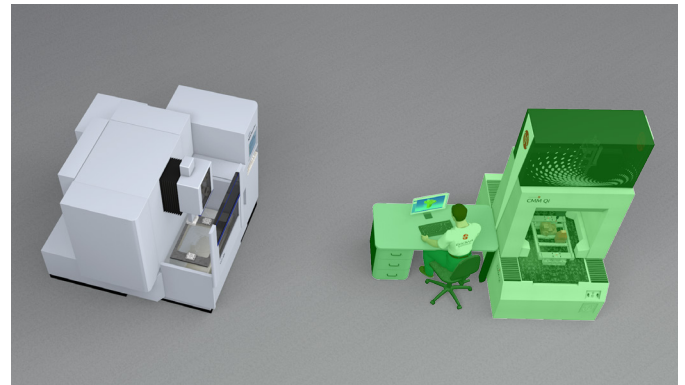
WEDM machine without EROWA datum point tooling system



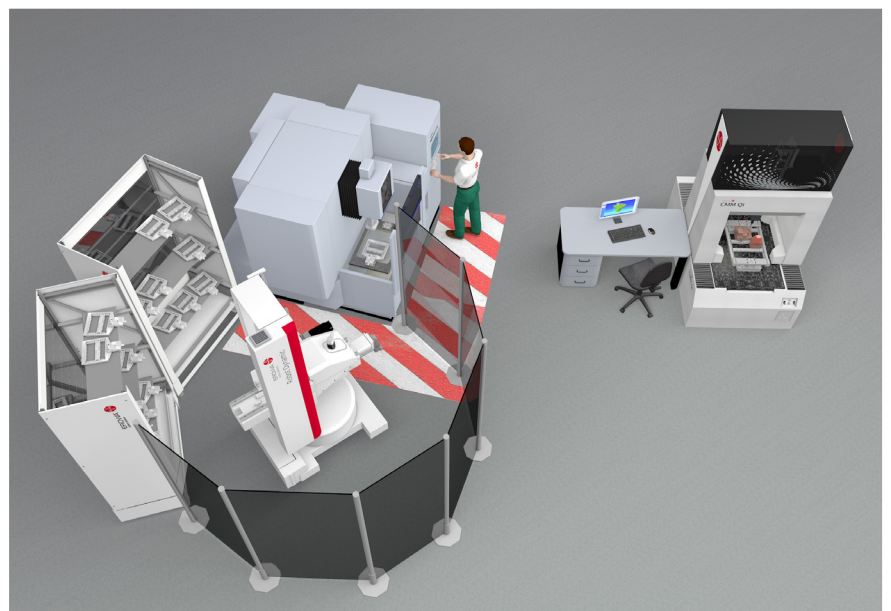
WEDM machine with EROWA datum point tooling system



... and EROWA robot ...



... and EROWA PreSet ...



... and EROWA process control system.

THE FACTS

- Making the best use of time
- Simplifying mounting operations
- Increasing productivity

The next step

Important things need to be planned. And your next step is certainly among the important things. For it is your start into a new, efficient era. We are pleased to be with you on the way. As consultants, in practice. For you to know at all times what you're engaging in. The next EROWA branch office is not far – **take the step.**



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