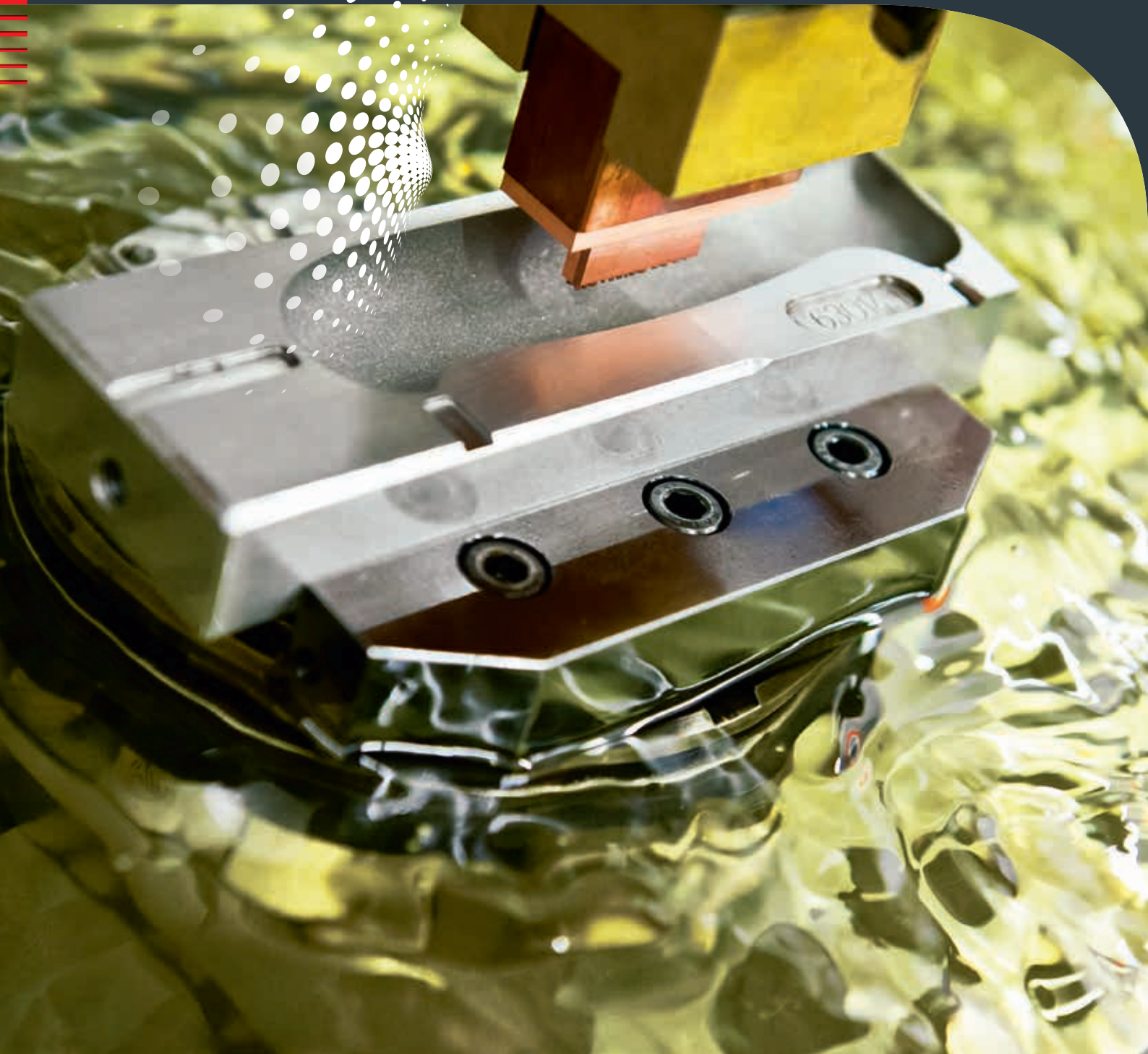


EROWA®
system solutions



EDM Tooling System

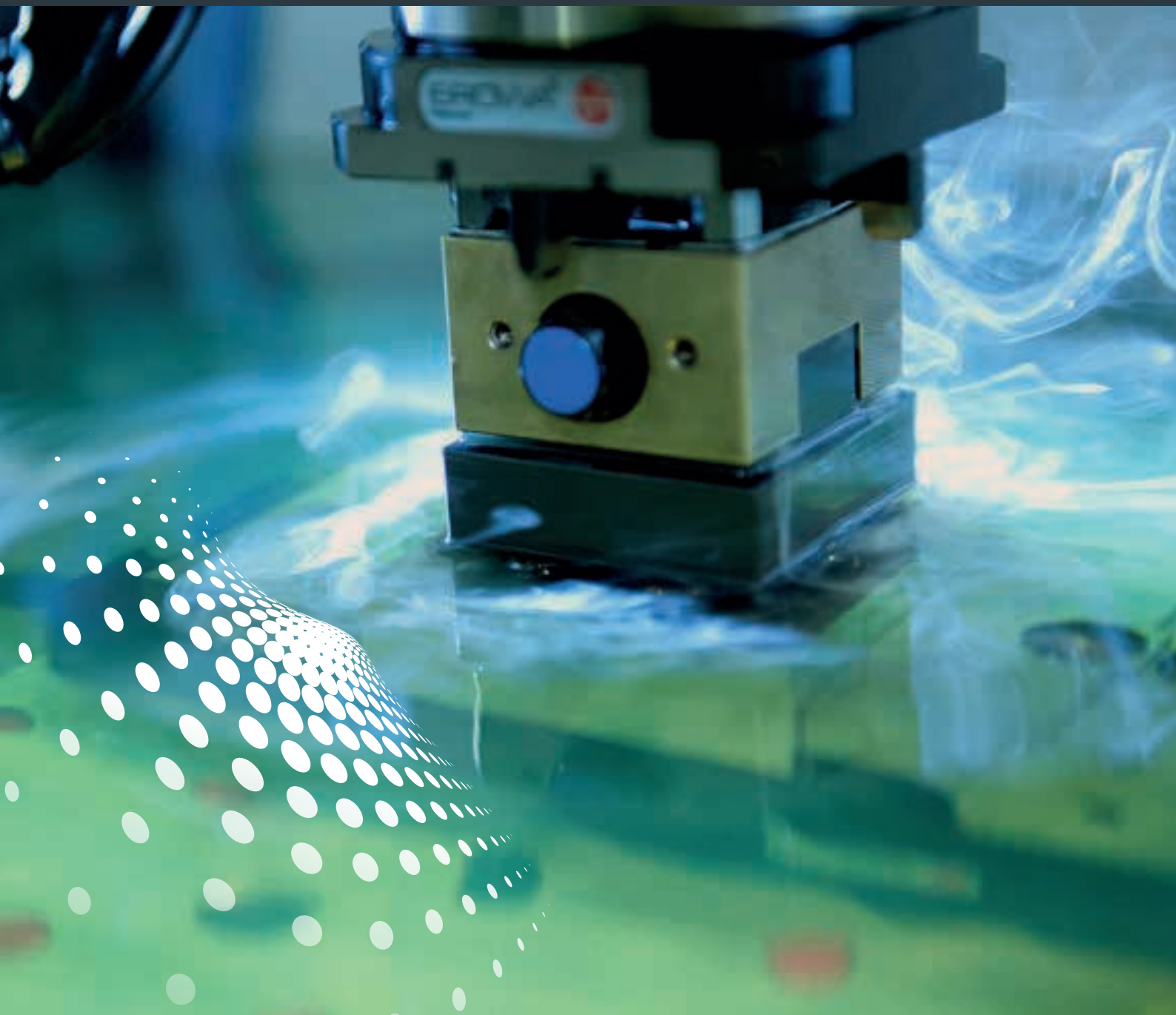
The workholding system
for eroding and milling

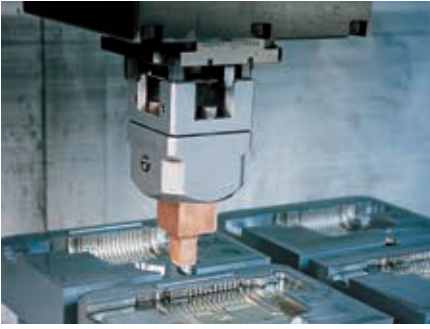


The right variant for every task

The usage possibilities of ITS chucks are as varied as the tasks faced in precision engineering and tool & mold manufacturing.

That is why we provide a considerable variety of different chuck variants.





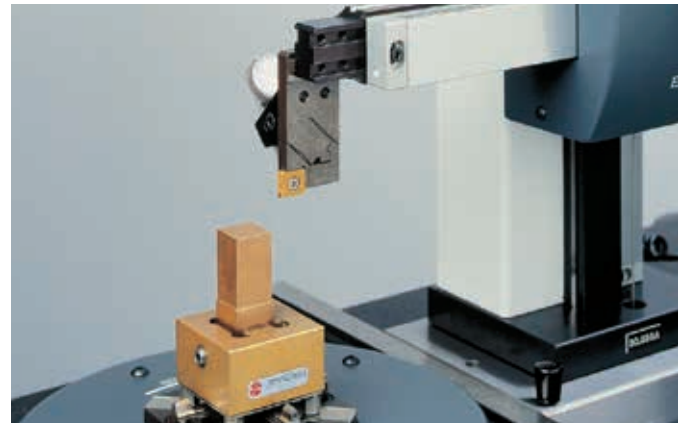
ITS chucks can be used universally on all machines.



Precision and reliability in the work tank and at the quill of the EDM machine.



ITS chuck: Also suitable for installation in special fixtures.



FACTS

Machine change and intermediate verification without loss of time thanks to fixed reference position.

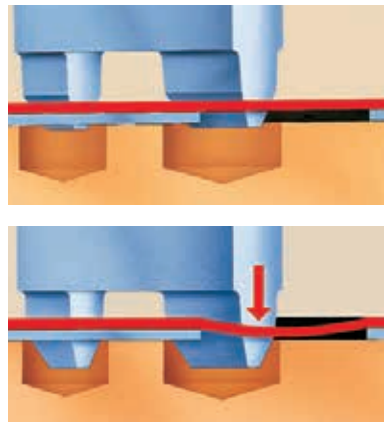
Simple, practical, good

The EROWA ITS chuck works with a technique that is as simple as it is ingenious. It holds both tools and workpieces with unique precision, stability and repeating accuracy. Its uses are so versatile that it is the basis of a sophisticated modular workholding system.

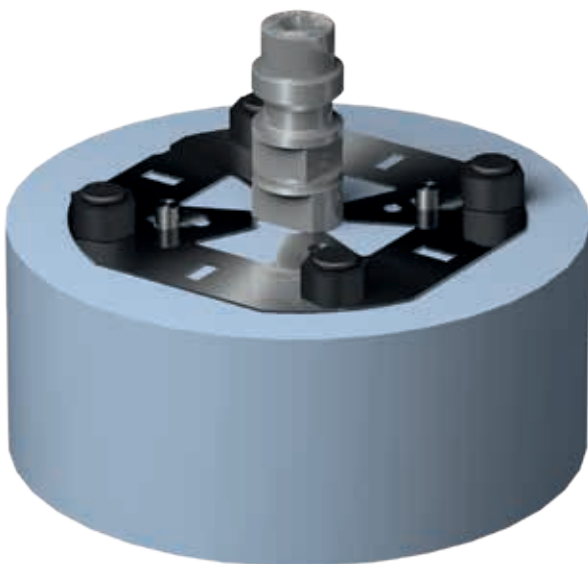


Tens of thousands of ITS chucks are in daily use worldwide. With guaranteed 2 μm precision and reliability acquired in the field.

Integrated on milling, grinding and drilling machines, on sinking and EDM machines or on measuring and presetting stations, ITS chucks help you to use production hours profitably week by week.



The two phase diagrams illustrate the ITS patent: After coarse pre-centering, the reference position is reached only with the bending of the centering plate. This deflection, along with the support points, results in frictional stability. This produces the positioning accuracy between the flexible centering plate and the rigid centering prisms.



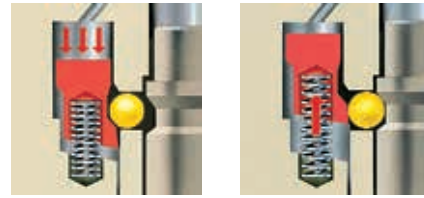
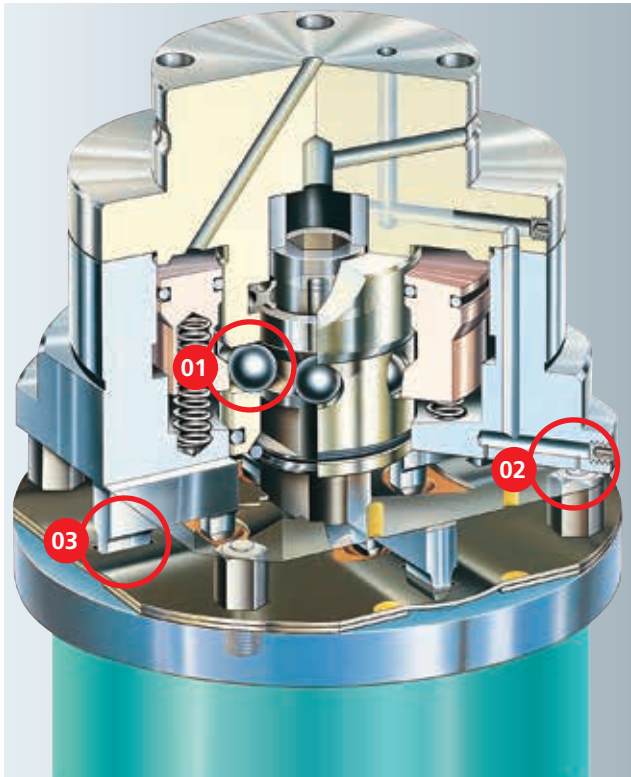
ITS The  Original.

Nothing is copied as fast as a groundbreaking invention. But a copy always lags behind time. It will not be any different with the next innovative idea.

We make sure that you continue your advantages when you rely on originals. Originals from EROWA.

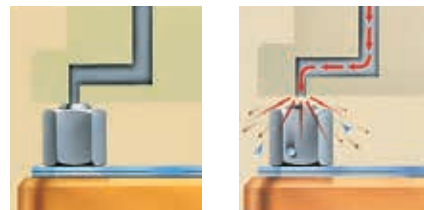


Function



01 Ball closure

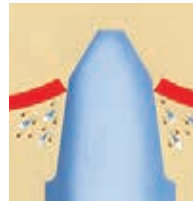
The reliable clamping mechanism with self-locking ball closure. It provides a pull-in force up to 7,000 N (NSF) and does not release even in the event of a compressed air failure.



02 Cleaning

Precision and dirt usually do not go along well. Therefore, the contact points of the support feet are cleaned by compressed air at the moment of clamping. This also works under liquid.

03



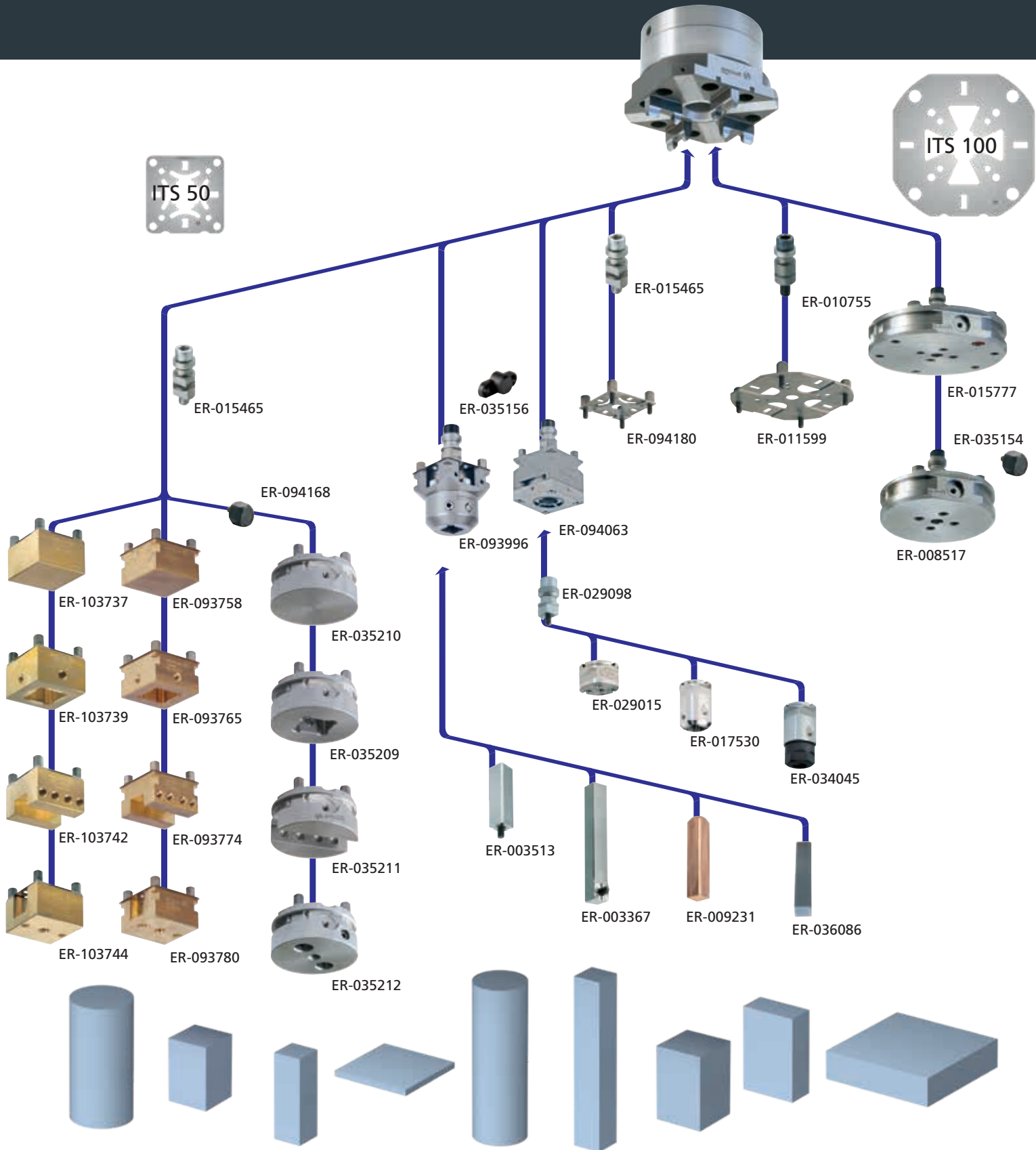
Precision

The important effect: the bending plate strips off the dirt. Centering plate and prism only touch in one line. Little contact also means little chance of being affected by chips and the like.

THE TECHNOLOGY IN DETAIL	PNEUMATIC ITS CHUCKS
System sizes	50 and 100
Repeating accuracy	0.002 mm
Indexing	4 x 90°
Clamping power	2,500 N - 7,000 N
Recommended workpiece sizes	up to 140 x 140 x 140 mm
Tension	spring force (+6 bar NSF chuck)
Opening	compressed air min. 6 bar
Actuation	control unit or air gun

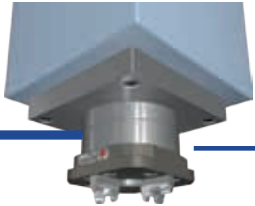
The components

EROWA provides you with a full range of products – everything fits together!



ITS chucks pneumatically/mechanically operated

Quill chuck



ER-001846



ER-070445



ER-008988



ER-007523



ER-007521

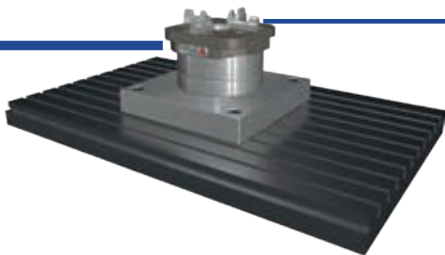


ER-007580



ER-038826

Table chuck



ER-037970



ER-035519



ER-007604



ER-012299

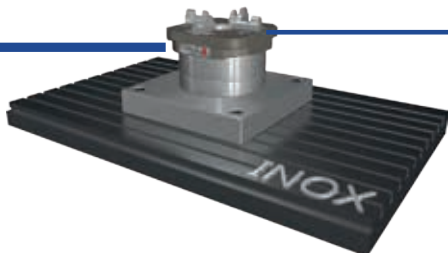


ER-012297

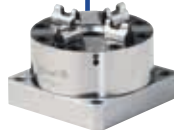


ER-007612

Table chuck, rust-resistant



ER-043123



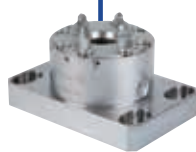
ER-043124



ER-011803



ER-048519



ER-055294



ER-008186



ER-036345



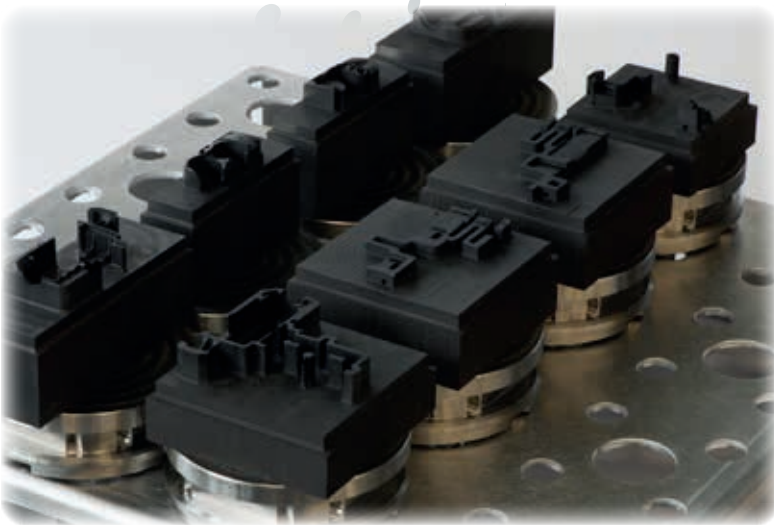
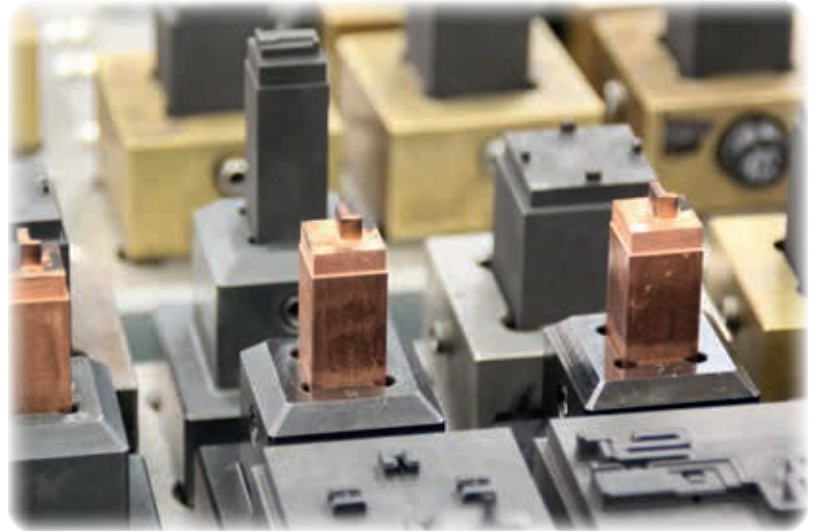
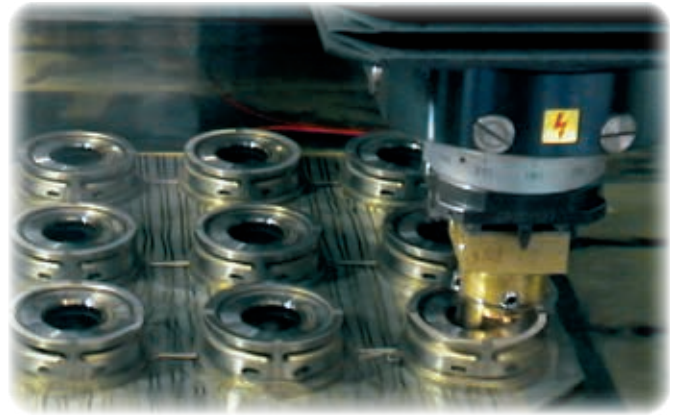
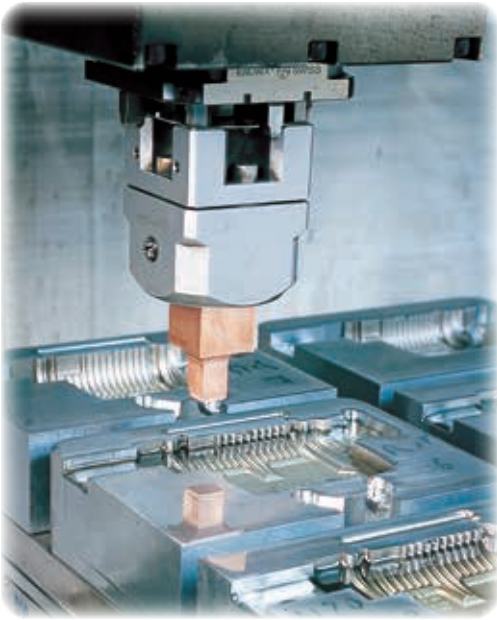
ER-038824

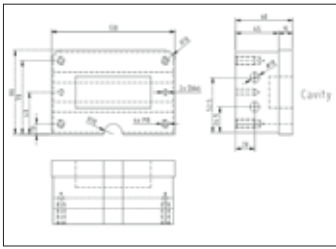


ER-034387

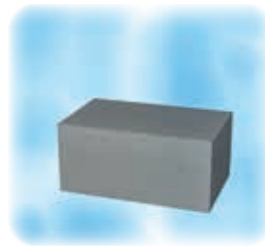
FACTS

Proven ten thousand times in practice since 1984.

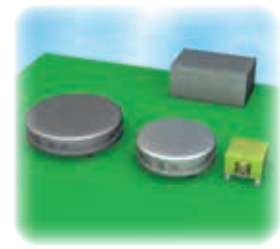




01 Check out drawing



02 Prepare blank part



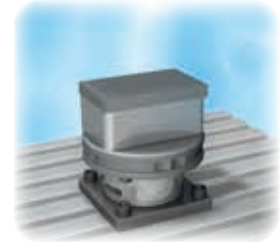
03 Select pallets



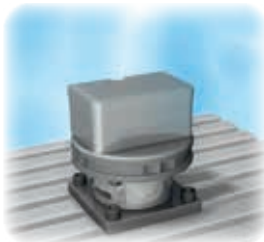
04 Clamp blank in EROWA ClampSet



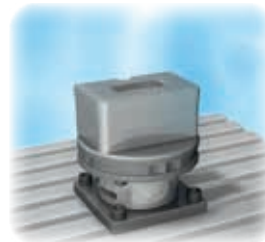
05 Machine 1st side



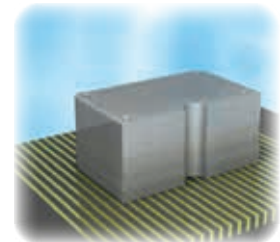
06 Mount blank on pallet



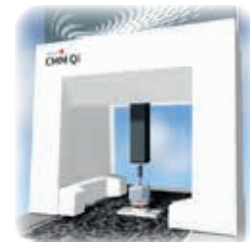
07 Machine 2nd side



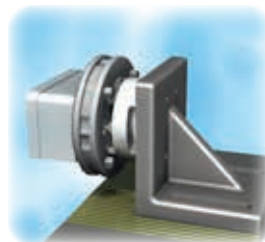
08 Pre-machine cavity



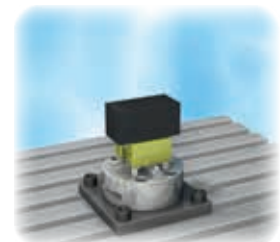
09 Grind 1st side after heat treatment



10 Setup on pallet



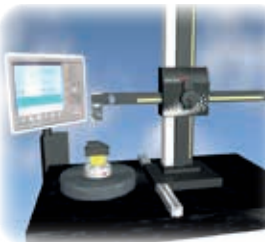
11 Grind remaining 5-sides



12 Insert electrode blank in chuck



13 Mill electrode



14 Check electrode



15 Put workpiece and electrode on EDM then start EDM-ing

SAVING MONEY

Improved productivity

Short delivery times

Superior Quality

Efficiency improvements



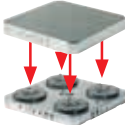



























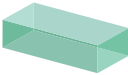

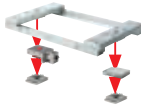



The tougher pace of international competition calls for manufacturing to be rethought. The means of production must be put to more universal and efficient use.

Suitable EROWA components will enable you to put your machines to optimal use. We'll gladly assist you with our many years of experience.





In our general catalog you will find more information about the following workholding systems:

			EROWA MTS (Modular Tooling System)
Machine dependent			
			EROWA UPC (Universal PowerChuck)
500 x 500 x 500 mm			
			EROWA CleverClamp System
Maximum clamping range 337 mm			
			EROWA PC210 (ProductionChuck 210)
400 x 400 x 400 mm			
			EROWA PowerChuck P
160 x 160 x 250 mm			
			EROWA Self Centering Vise
Maximum clamping range 155 mm			
			EROWA ClampSet
Maximum clamping range 224.5 mm			
			EROWA ITS (Integrated Tooling System)
140 x 140 x 140 mm			
			EROWA ITS Compact Combi
50 x 50 x 50 mm			
			EROWA ITS Accessories
			EROWA FTS (Fine Tooling System)
Depends on machining power			
			EROWA Wire EDM Tooling
Machine dependent			
			EROWA Sine Dividing Head ITS
Machine dependent			EROWA PM Tooling (Powder Metallurgy)

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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