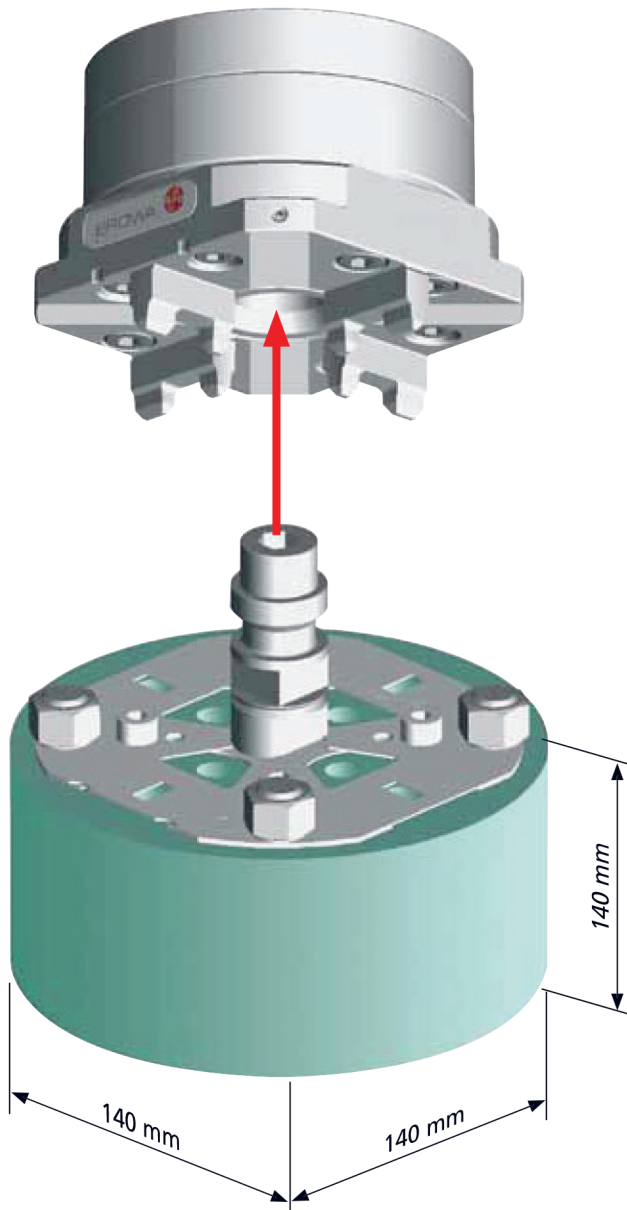


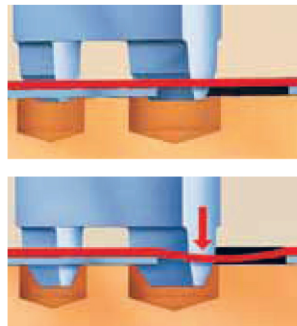
## EROWA ITS chuck

## Simple, practical, good

EROWA's ITS chuck operates on a principle that is as simple as it is ingenious. It holds both tools and workpieces with equal precision and with a high degree of repeatability. Its applications are so numerous that it forms the basis for a well thought-out modular tooling system.



- Tens of thousands of ITS chucks are in daily operation worldwide - with their guaranteed 2- $\mu$ m accuracy and with a reliability they have earned for themselves in practical working application.
- Integrated on milling, grinding and drilling machines, on EDM sinking and WEDM centers or on measuring and presetting stations, ITS helps us week after week to achieve a profitable use of production time.



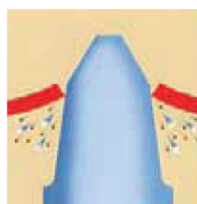
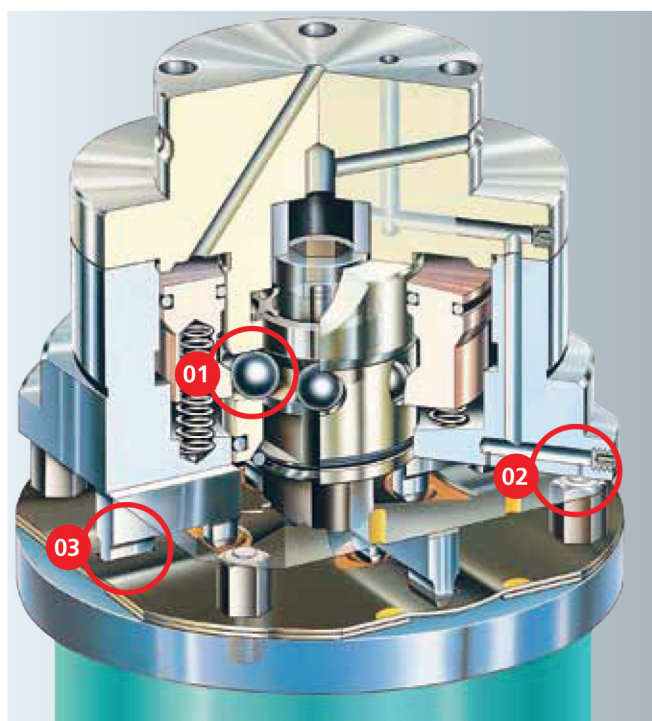
The two pictures illustrate the ITS patent. After a rough pre-centering process, the reference position is only reached when the centering plate is flexed. Together with the contact points, this flexing action creates the stability of the frictional connection. This is how positioning accuracy is created between the flexible centering plate and the rigid centering prisms.

**ITS The  riginal.**

Nothing is copied as fast as a pioneering invention. But then a copy always lags behind the times. It won't be different with the next innovative idea. We will ensure that you continue to do well if you invest your money in originals. In originals by EROWA.

**Applications****Handling**

Manual / Loading facility / Robot

**Function****03 | Precision**

The second important effect: the flexing plate wipes off any dirt. Centering plate and prism only touch on one line. A small contact area also reduces the possibility of interference by chips and dirt particles.

**01 | Ball lock**

The reliable clamping mechanism with the self-locking ball lock generates a clamping power of up to 7,000 N (NSF) and does not unlock even if the pressure fails.

**02 | Cleaning**

Experience shows that precision and dirt are do not go hand in hand. This is why the contact points of the support feet are cleaned with compressed air at the very moment of clamping. This also functions when the chuck is submerged in liquid.

**Technical data - ITS chuck**

	ITS chuck, pneumatic
System sizes	50 and 100
Repeatability	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
Generated by	springs (+ 6 bar NSF chucks)
Opening	compressed air min. 6 bar
Operation	control unit or air jet

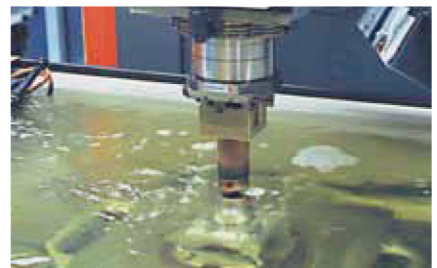
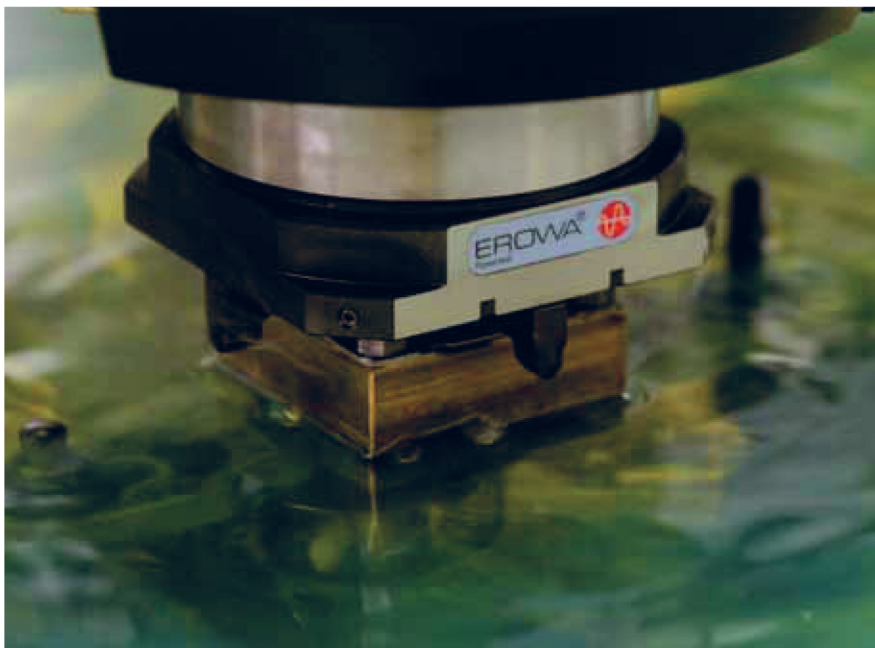
EROWA ITS chuck in action

# A suitable version for each job

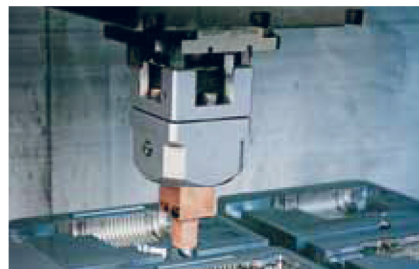
The applications of ITS chucks are as numerous as the jobs to be done in precision mechanics and in tool and mold manufacturing. This is why we offer such a diverse variety of chucks.

## SAVE TIME

**Machine changes and in-process-control without loss of time thanks to fixed reference position.**



Precision and reliability in the tank and on the quill of the EDM machine.

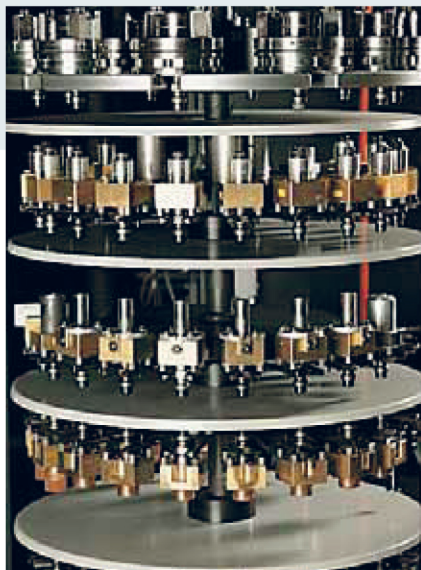


ITS chucks can be used on all machines.





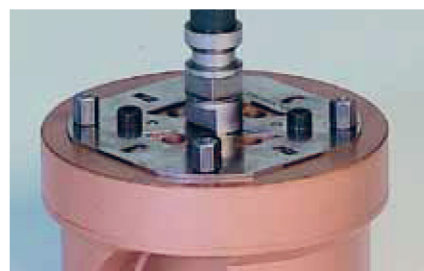
Ideally suitable for milling, drilling, grinding, turning . . .



Exploit marginal and night hours by loading EDM machines automatically: ITS provides you with the necessary prerequisites.



ITS chucks: Perfectly suited for integration in special fixtures.



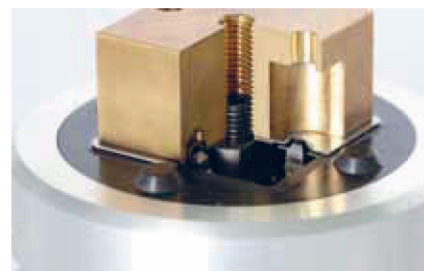
The centering plate is fitted directly on to the electrode or the workpiece...  
...which is then transferred to the ITS chuck at once!



Checking outside the machine: quick, simple, precise.



Loading machines with preset parts will increase your capacity.



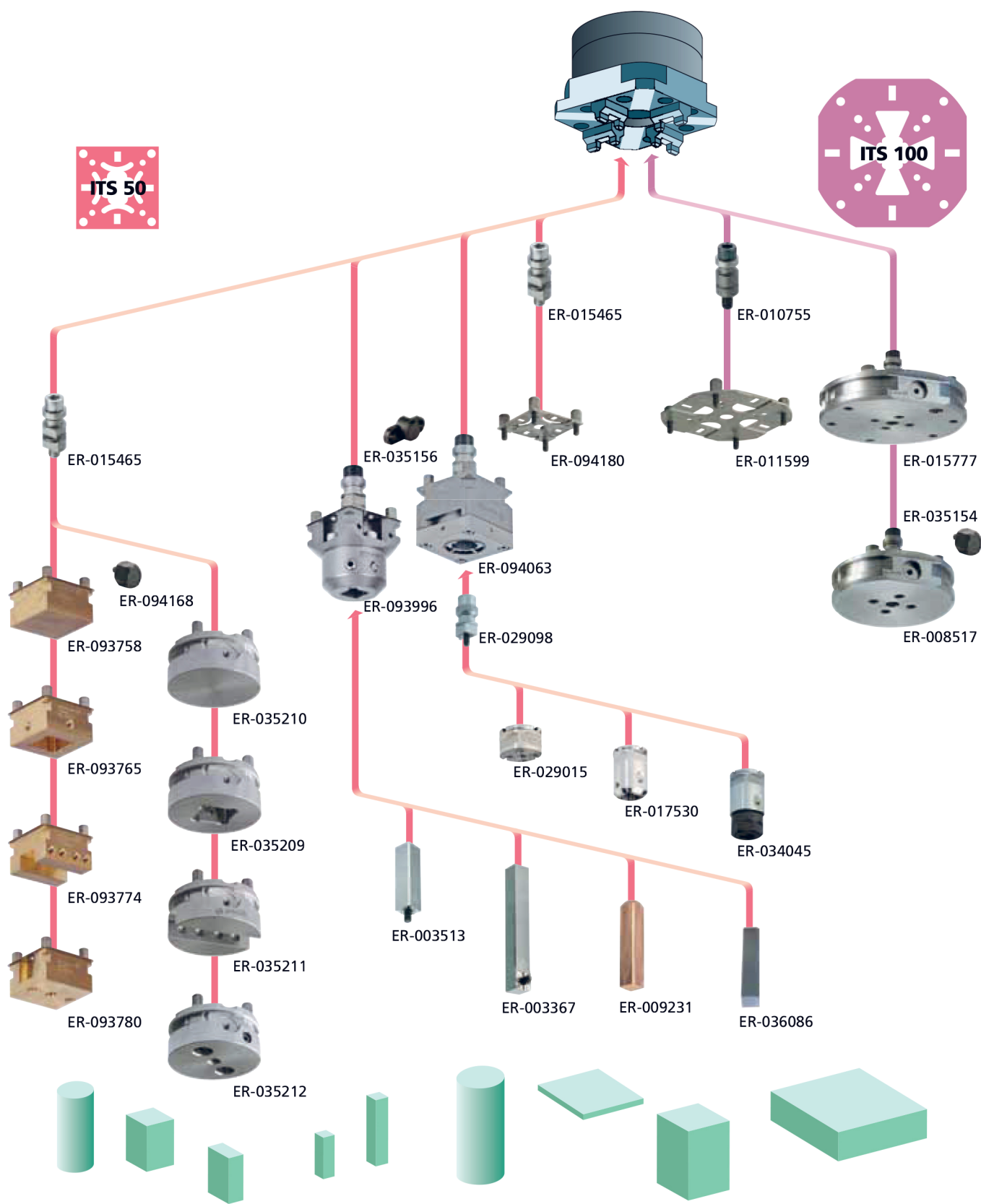
High degree of safety. The sealing plate of the EROWA ITS 50 holder C and the sealing ring constitute a form-fit seal. This provides the chuck with maximum protection against contamination.



EROWA ITS

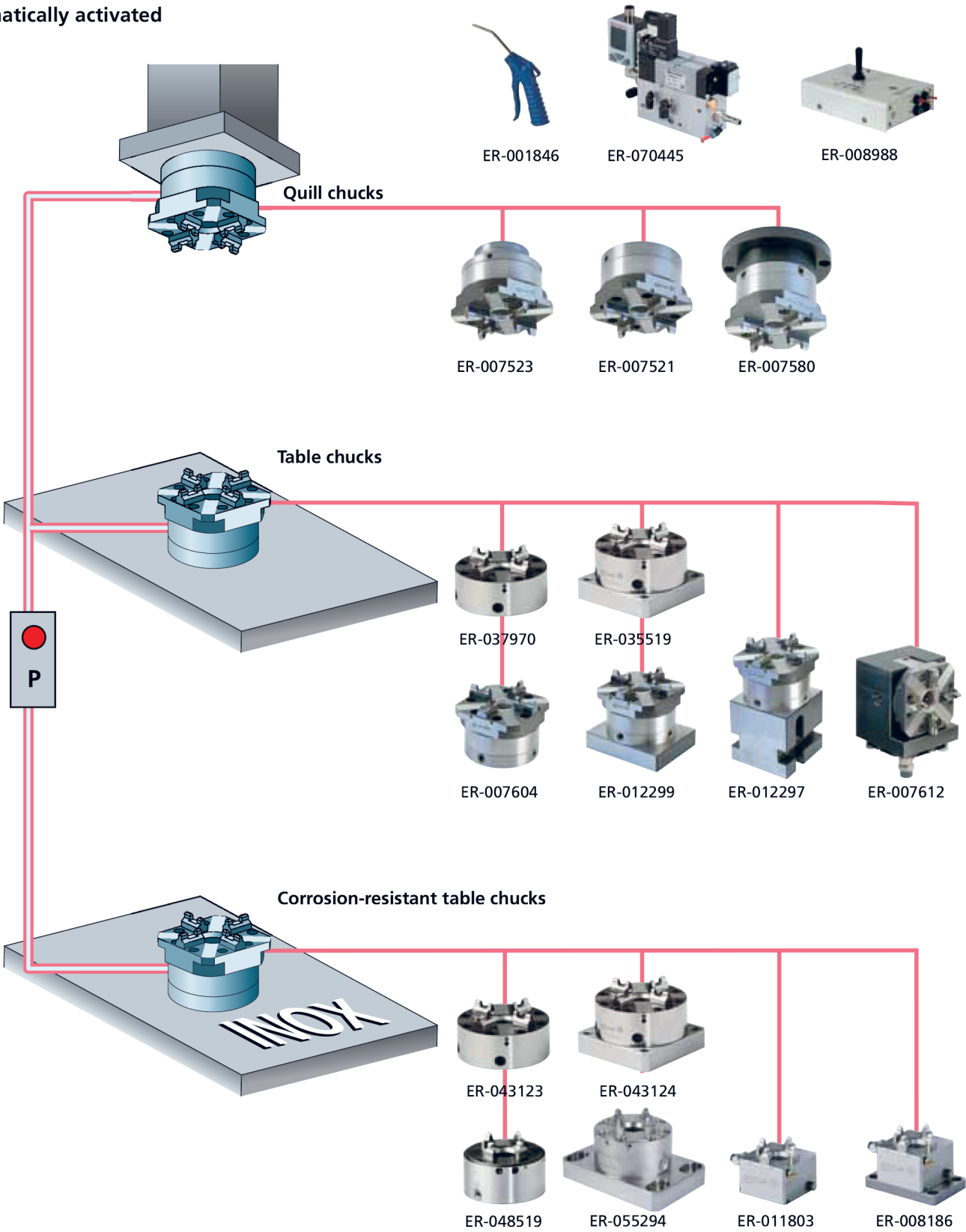
# Integrated tooling system

The components

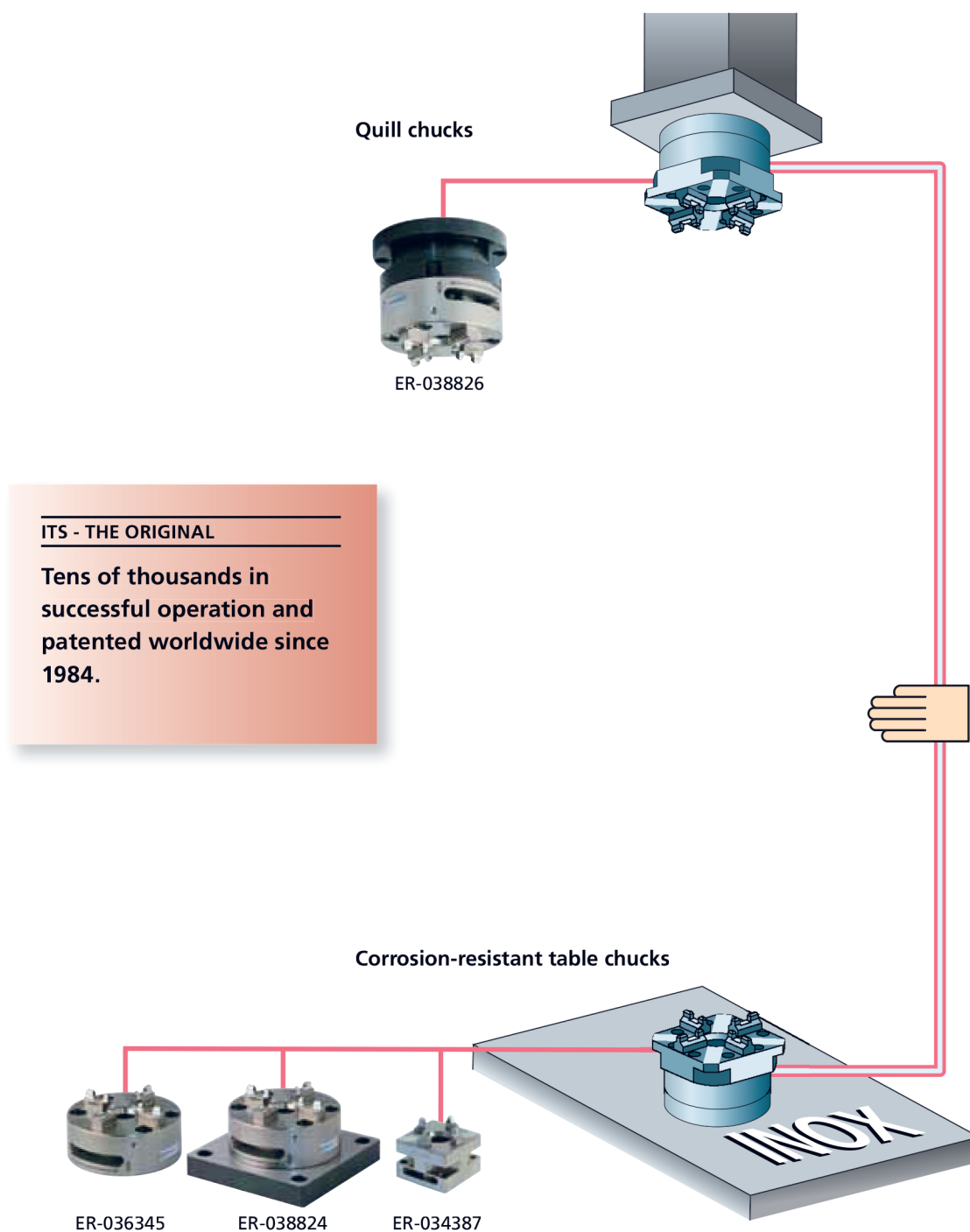


# EROWA ITS chucks

Pneumatically activated



## Mechanically activated



### ITS - THE ORIGINAL

Tens of thousands in successful operation and patented worldwide since 1984.

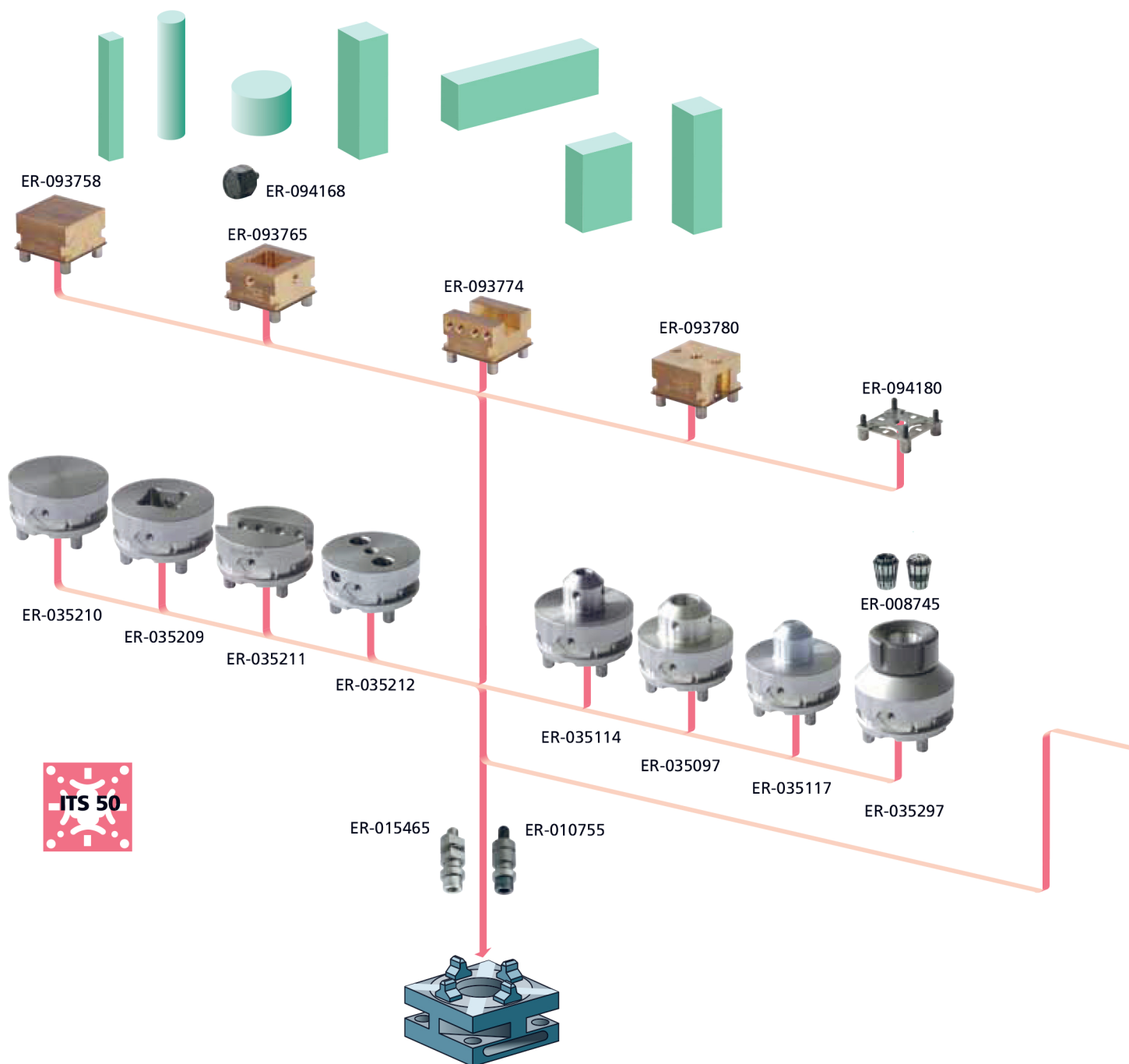
ITS

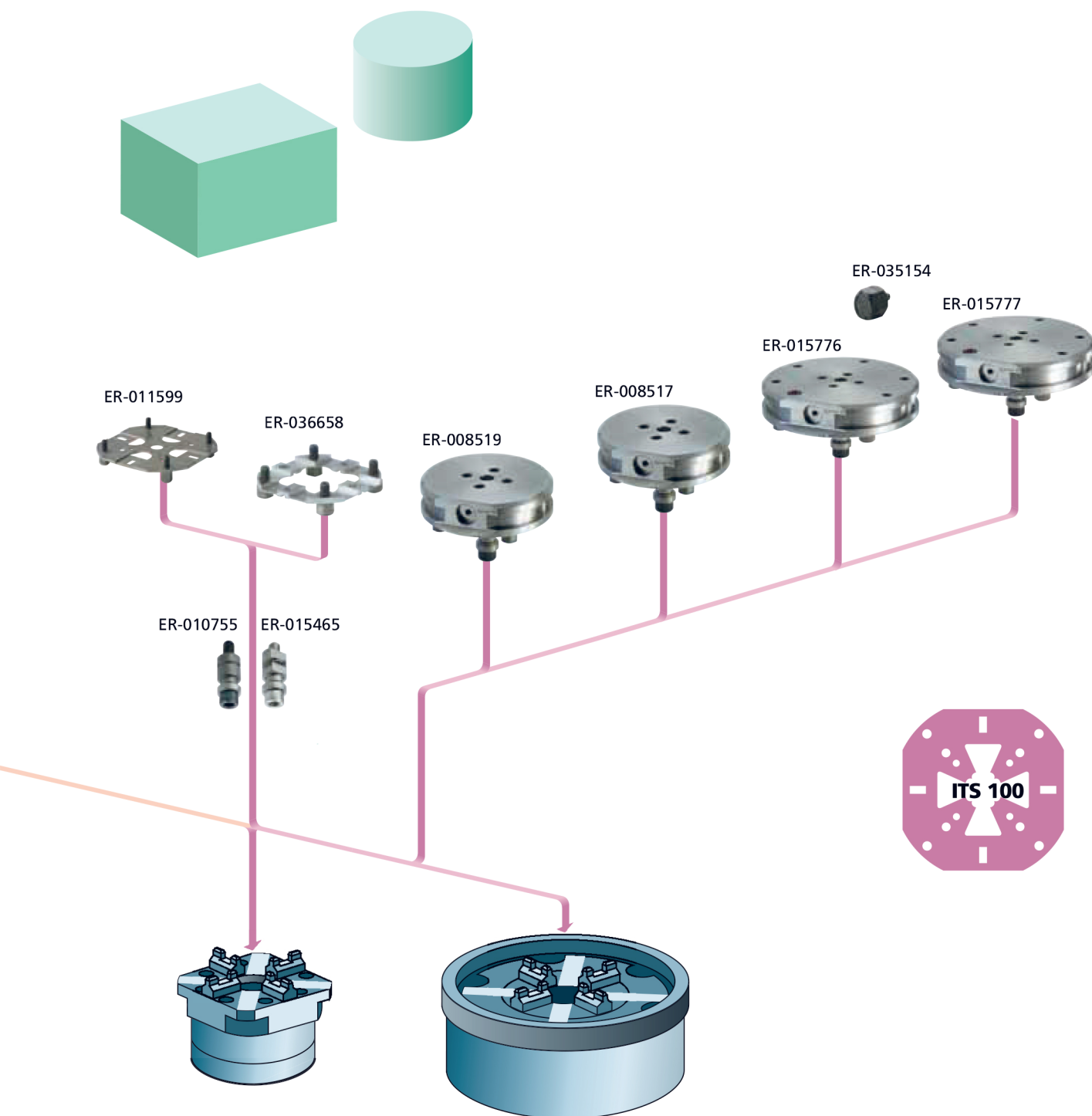


# EROWA ITS System carriers

## The components

Universality starts with the system carrier. Whether you use completely prepared electrode holders, pallets or the very economically priced centering plates, they all depend on the application. However, the workpiece will be ready for universal and flexible use in any case.





ITS

# EROWA ITS Chucking spigots

## For every application the proper version



01 | Movable upper part for error compensation

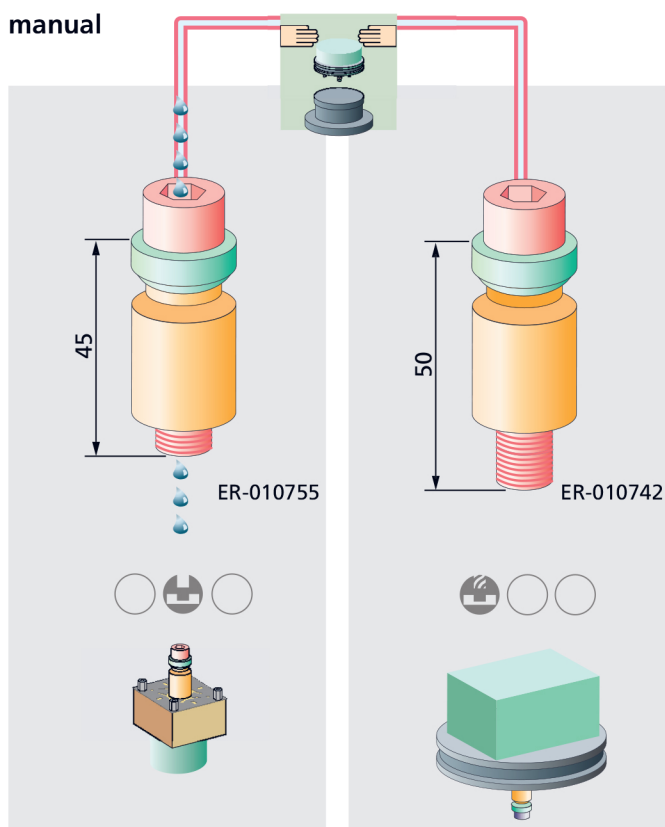
02 | Groove for ball lock

03 | Flats for magazine engagement

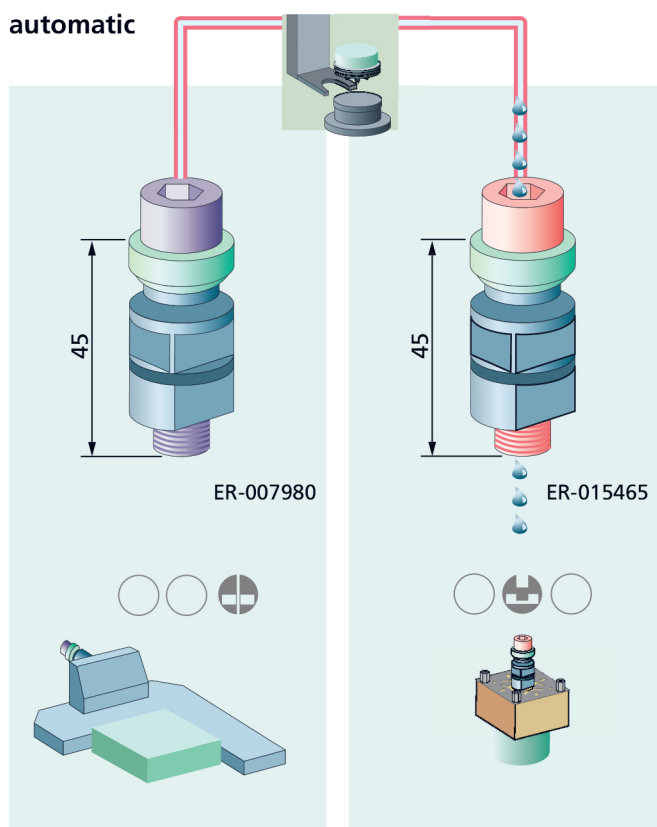
04 | Groove for O-ring seal

05 | Flats for gripper

manual



automatic



1



2



3

fix



4





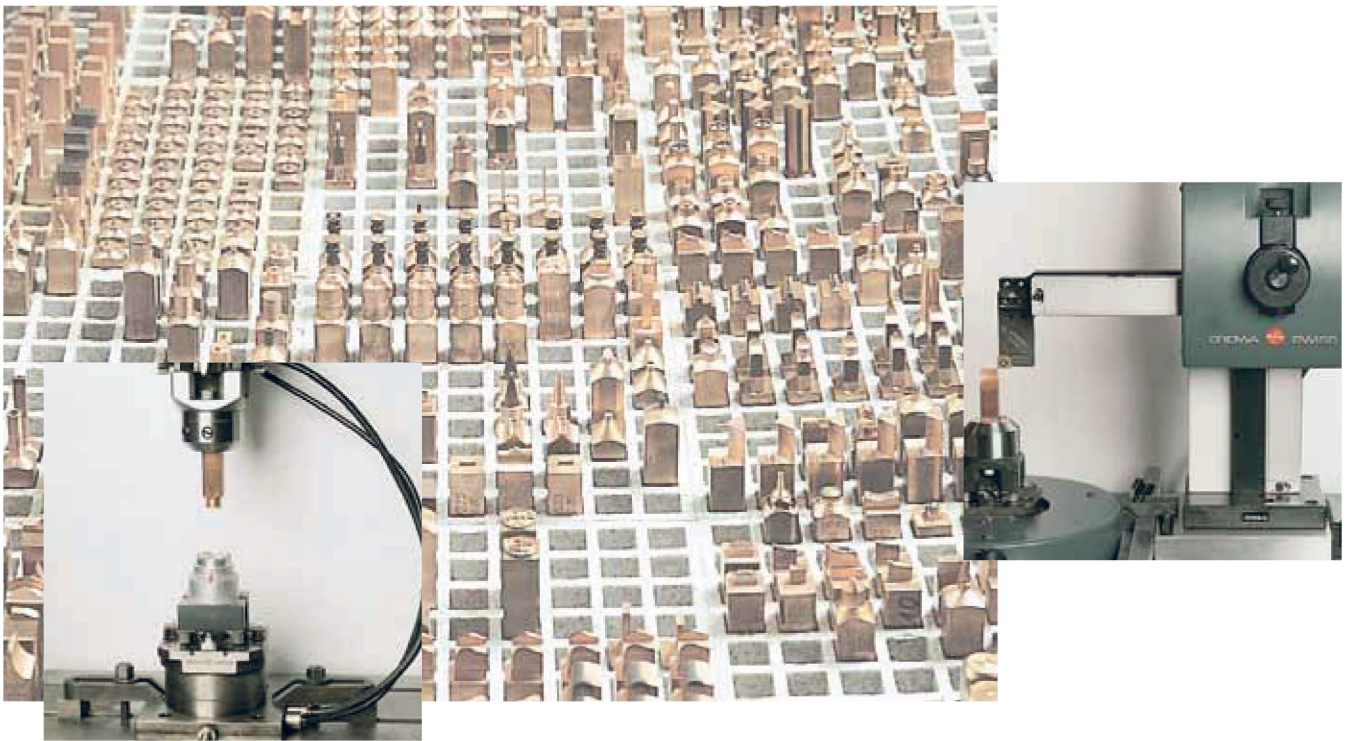
## EROWA ITS Square Electrode System

# Square Electrode System and System Plus

## SAVE SPACE

Store up to 1600 square electrodes safe and handy on 1 m<sup>2</sup>.

EROWA square holders are highly suitable for the manufacture of small electrodes. Their applications consist of milling, turning, grinding, as well as EDM sinking and WEDM. Used in addition to the System Plus, they represent a well-rounded, well thought-out range of products for everyone who works with many small electrodes.



### System Plus

The stamped centering profile directly on the blank forms the system reference.



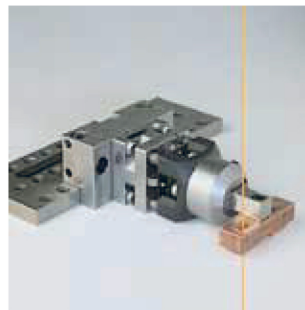
#### 1. Preparation

Stamp in the centering profile.



#### 2. Milling

On a straight System Plus holder.



#### 3. WEDM

On an angle holder.



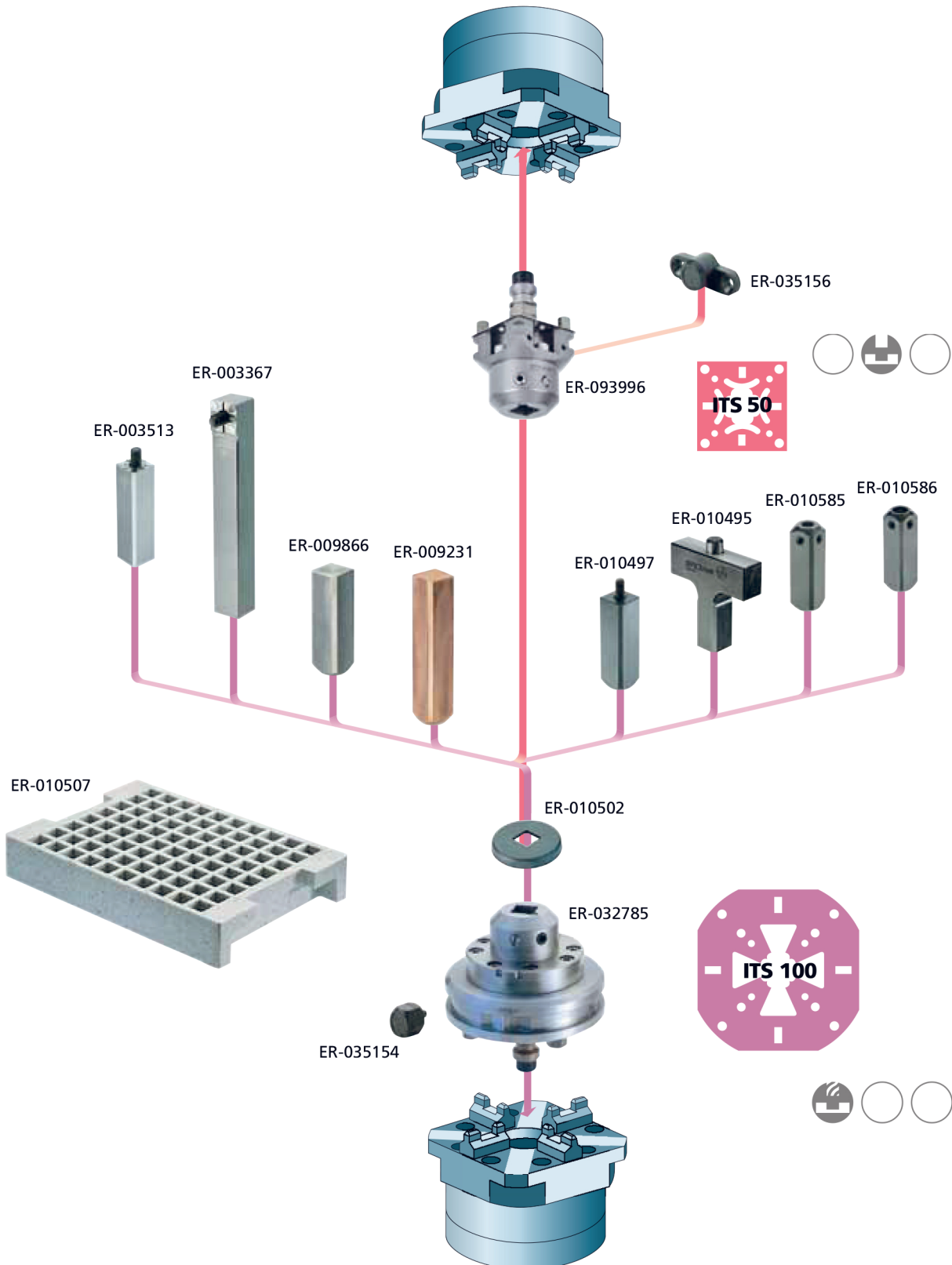
#### 4. EDM

On a straight holder.

EROWA

# ITS Integrated tooling system

## The components



ITS

EROWA

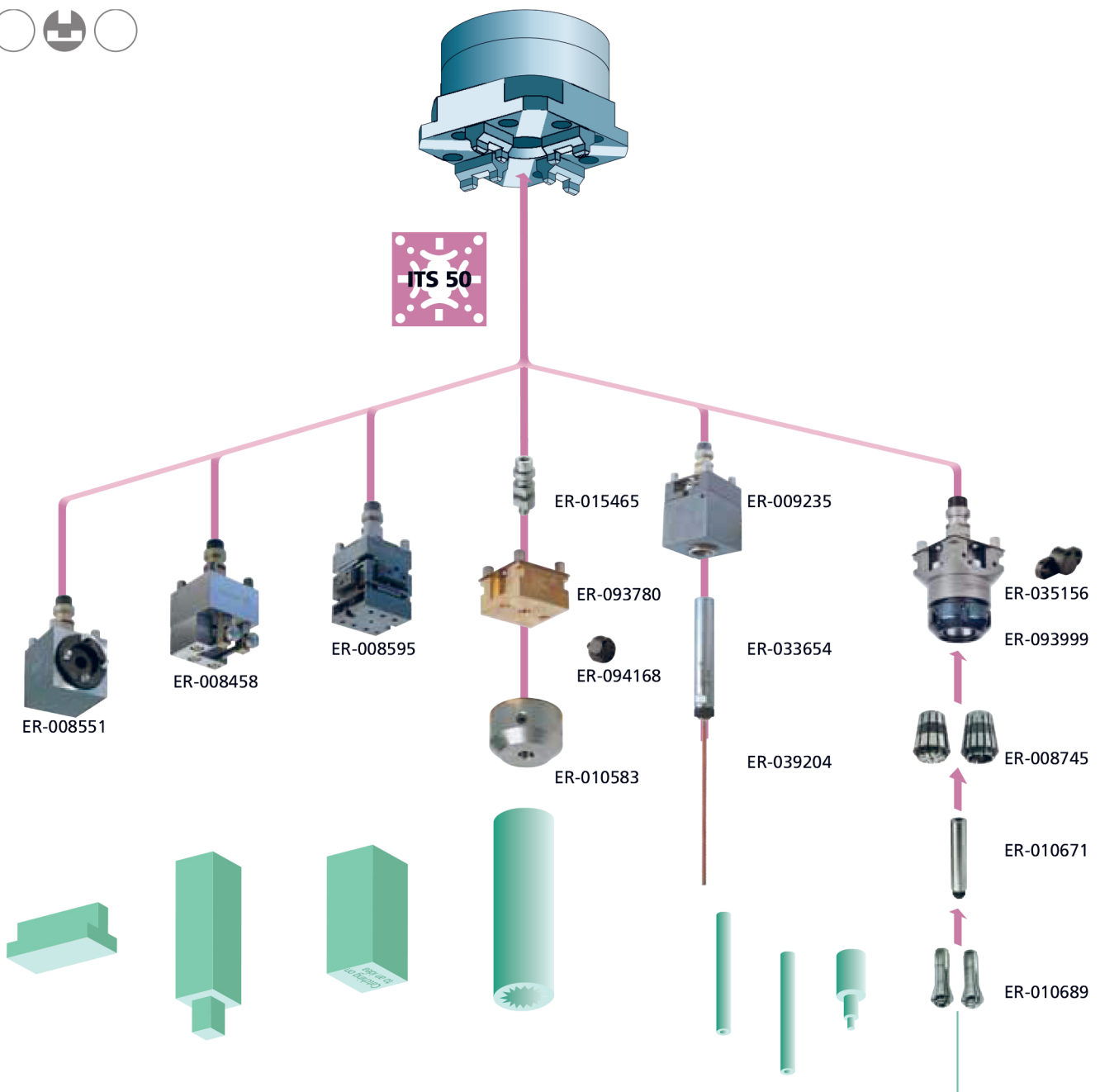
# ITS Special Electrode Holders

## The components

These holders support the manufacturing of special electrodes. Thanks to their adjustable angular and axial positions, existing electrodes can be integrated into the system. One of each of these holders should be kept ready for use in every workshop.

### SAVE TIME

Machine changes and in-process-control without loss of time thanks to fixed reference position.





EROWA

# Measuring and Checking Elements

## The components

Trusting is good - checking is better. These specially designed elements will make it easier for you to check your production equipment. These elements are for use both in chip-cutting applications and in EDM sinking and WEDM.

