



# TSCHORN®

Probes & Tools Technology



EasyZero

**Easy, independent, precise!**  
**- exactly what you need!**

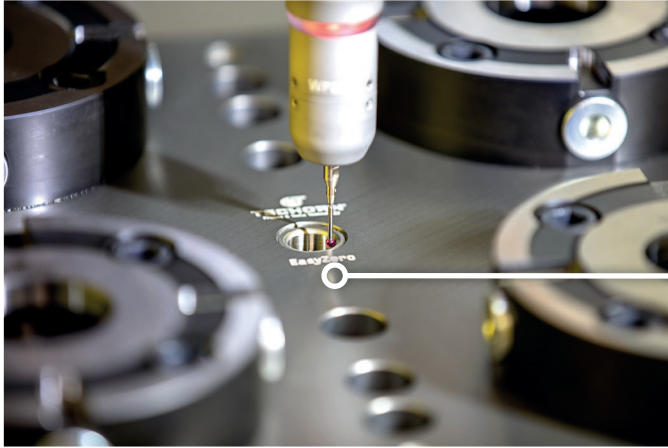


Manual

**Minimize set-up times  
with EasyZero zero point system**

Useful in every detail!

Zero clamping system



**EASY centre point:**

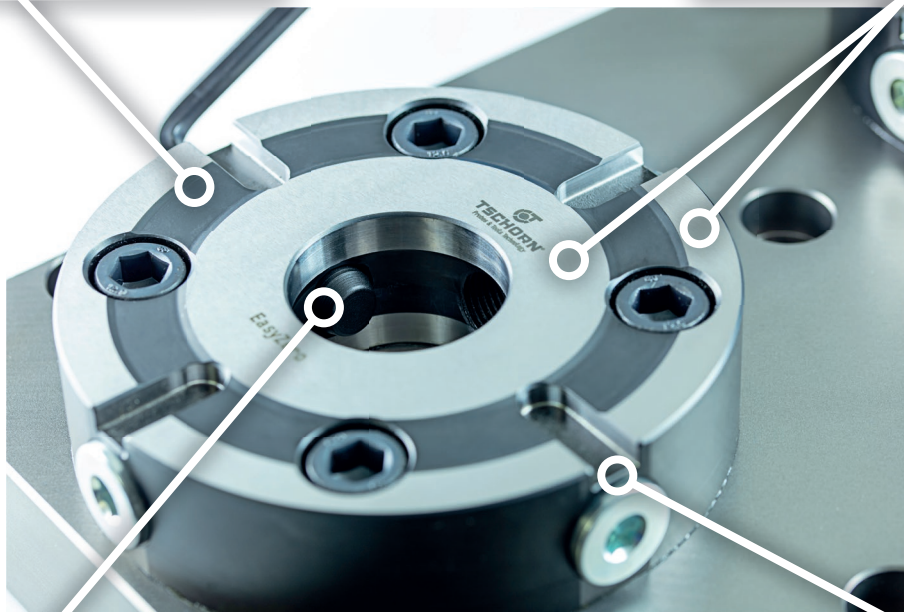
Exactly in the middle of the system, there is a hole for quick and precise recording of the centre point.

**EASY laid open:**

More safety from chips and dirt thanks to the open area.

**EASY massively clamped:**

Broad and massiv clamping surfaces make the system stable and reduce vibrations.



**EASY powerful:**

With only 60Nm torque, we reach up to 50 kN clamping force.  
*(Usable in 4 directions)*

**EASY indexed:**

Precisely indexed via the indexing slots width 8 mm.

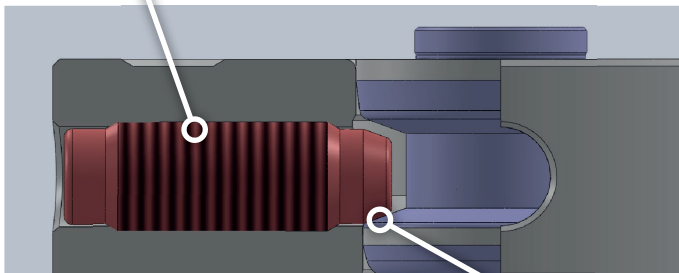
## EasyZero - Safety lock

Zero clamping system

Process reliability thanks to safety lock: conventional spring-loaded zero point systems have limited spring force. That is why they are often error-prone and are a safety risk. On the other hand, the EasyZero zero point system impresses with its insuperable safety lock.

**EasyZero - Safety lock**

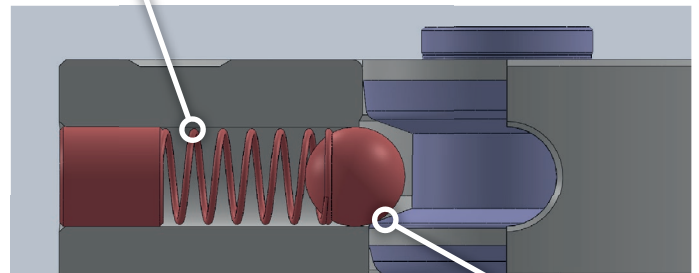
Clamping screw: insuperable



Real clamping force always lasts

**Conventional spring clamping system**

spring force: limited



Limited force fails in an emergency.

This safety lock has especially been developed for the EasyZero zero point system. It secures clamping devices and workpieces mechanically and insuperably on the machine table. An opening of the safety lock due to overload is impossible - the clamping screw or clamping stud would have to be smashed for this.

Spring force, however, is limited and fails at high machining forces and in an emergency. Dirt can also reduce the spring force and allow risky opening. This usually provokes a crash which can lead to damage to the workpiece, tool or machine and can even cause injury to the machine operator.

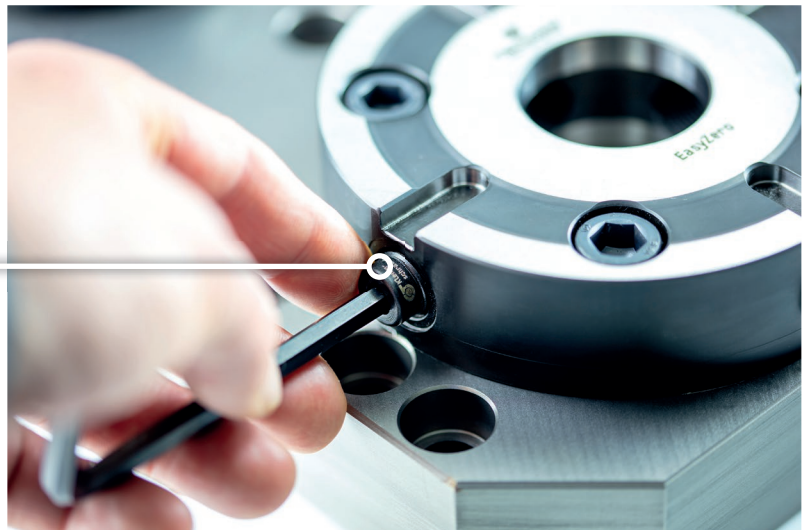
### Therefore safety first with EasyZero safety lock:

A low crash risk minimizes the risk of injury, prevents damage to the workpiece, tool and machine and ensures precise work results.



Clamping force up to 50 kN  
Turning moment max. 60Nm

Clamping screw:



## EasyZero - Studs



Positioning stud

Orienting stud

Clamping stud

Zero clamping system

### Positioning stud:

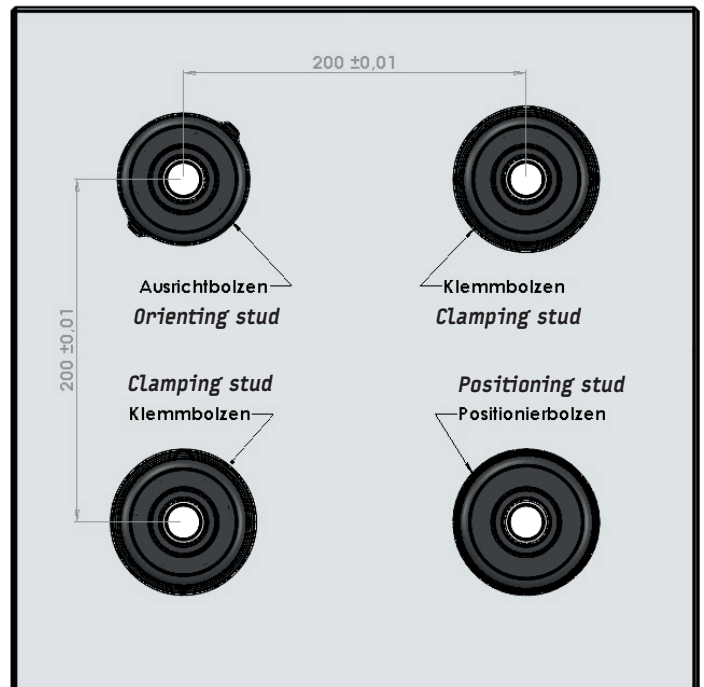
responsible for highly precise positioning.

### Orienting stud:

responsible for exact orienting to the axis.

### Clamping stud:

with undersize simply useful for safe clamping.



### It slips easily:

minimized canting, user-friendly as well as highly precise.

- + Simple inserting
- + Repeatability < 0,005 mm

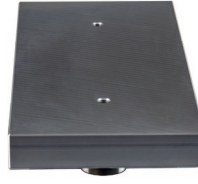


Systems and accessories

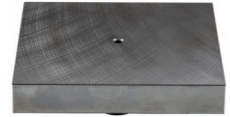
Zero clamping system



Adapter plate  
4 clamping points  
Art.No. 003511004



Adapter plate  
2 clamping points  
Art.No. 003511002



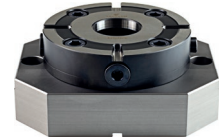
Adapter plate  
1 clamping point  
Art.No. 003511001



Basic system 4 pots  
Art.No. 003501004



Basic system 2 pots  
Art.No. 003501002



Basic system 1 pot  
Art.No. 003504001

For direct installation



Basic system 1 pot  
Art.No. 003501001

Space-saving



Basic system 1 pot  
Art.No. 003502001

For 5-axis machines



Basic system 1 pot  
Art.No. 003503001



Cover stud  
003521011



Clamping screw  
003521021



Cover  
003521012



Positioning stud  
003521001



Orienting stud  
003521002



Clamping stud  
003521003



Article-No.	Description	A	B	H
003501001	EasyZero Zero point system 1 pot	Ø130	-	32
003502001	EasyZero Zero point system 1 pot	Ø130	-	72
003503001	EasyZero Zero point system 1 pot	Ø147	-	125
003504001	EasyZero Zero point system 1 pot	140	175	72
003501002	EasyZero Zero point system 2 pots	340	175	72
003501004	EasyZero Zero point system 4 pots	340	375	72
003511001	EasyZero Adapter plate 1 clamping point	180	180	26
003511002	EasyZero Adapter plate 2 clamping points	346	156	26
003511004	EasyZero Adapter plate 4 clamping points	346	346	26
003521001	EasyZero Positioning stud			
003521002	EasyZero Orienting stud			
003521003	EasyZero Clamping stud			
003521011	EasyZero Cover stud			
003521012	EasyZero Cover for boreholes (package: 5 pcs)			
003521021	EasyZero Clamping screw			
003521031	EasyZero Positioning segment 8 mm (for indexing in the indexing slot)			
003521032	EasyZero Adapter sleeve M12-M10 (for reducing from M12 to M10)			
003521033	EasyZero Positioning round sleeve Ø16 (for positioning of the pots)			