



2025 Version 1







Our commitment to envir onmental protection

Because it is our earth. And we only have it once.



We produce with 100% green electricity.

We use long-lasting and energy-saving LED lighting throughout the company.



Look for the Green Packing logo in the catalogue:



All these products have already been switched to sustainable packaging.

Thanks to Green Packing, we save over 3000 liters of foam every year - only with the 3D Tester SLIMplus.



We ship environmentally conscious and 100% recyclable:











Our probing and make the world simple, precise

clamping technologies of manufacturing and competitive.







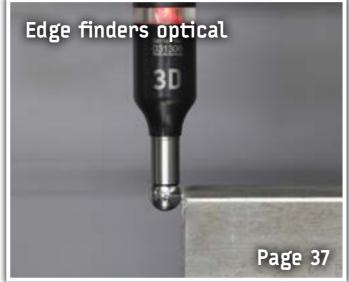


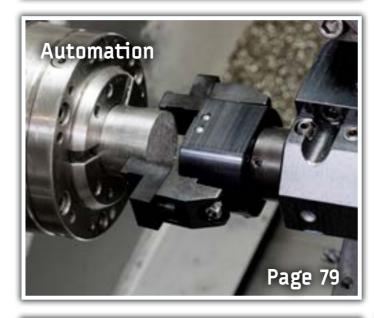




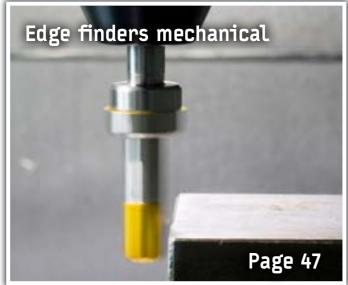






















Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.









Tschorn 4.0: Automatic probing system for every application

With the Tschorn 4.0 probing systems, you can measure tools and/or workpieces quickly and easily on your machine.

The investment is not worthwhile on your old machine?

It is! - With the cost-effective TSCHORN 4.0 system, the investment is also worthwhile for you!

Benefit from numerous advantages:

- time saving
- repeatability +/- 3 μm
- The accuracy is independent from the user.
- The receiver can flexibly be placed outside.
- The user has a good overview of the status LEDs at all times.
- Zero point probing and tool probing, even in a wet environment.
- tactile functionality reacts to touch
- exchangeable styli
- Measurements are possible in the machining process with corrections
- Tool correction during machining
- Tool breakage control

Probing system WP200 & TP125 with wireless connection:



Functionality

The workpiece probe as well as the tool probe detect any movement of the probing head or deflecting of the probing ball.

At the moment of deflection, a probing signal is sent to the receiver.

The receiver is connected to the machine control and forwards the probing signal for further processing by the measuring macros (measuring cycles) integrated in the machine control.





An alternative to the TP125 is the **wired TP135** for tool measurement:







■ Video

Example of

use probing

edges

-11-

Spanntechnologie [Probing technology] Tasttechnologie



Software: Smart-Macros from Tschorn

Smart-Macros from Tschorn are available free of charge for Siemens, Fanuc and Mitsubishi.

Tschorn Smart-Macros have been especially developed and synchronised for the TSCHORN 4.0 probing systems. Original Tschorn Smart-Macros enable best probing and repeatability precision.

Spindle orientation: Generally, probing is possible on all machines, whether with or without spindle orientation. Highest accuracy can be achieved with spindle orientation. Errors in the machine, the run-out or the probe are compensated during calibration. Without spindle orientation, this compensation is limited.

3 way probing:

Tschorn 4.0

In order to probe as quickly and precisely as possible, the probing process is divided into 3 consecutive probings:

- 1. The first probing is made with fast feed and saves movement time.
- 2. This is followed by a second probing with medium feed.
- 3. Finally, the third probing follows with a slow measuring feed for maximum precision.

Manual Fanuc macros tool probing



Manual Fanuc macros workpiece probing





Installation questions?

Simply tell us about your machine and machine control and we will tell you immediately how guickly the installation can be carried out on your machine! You can also find more information about the installation in the video:







Calibrating the radius

Calibration aids

Please calibrate the probes before first use. We recommend repeating the calibration process regularly, as this compensates for the calibration deviations that arise in the interaction between the measuring system and the machine control.

For easy calibration, our calibration aids KH100+ and KH100 are available as accessory.







Calibration aid KH100+ calubration aid KH100

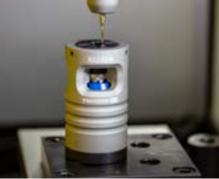


New: Calibration aid KH100+

The KH100+ calibration aid significantly simplifies length calibration. You can easily and simply determine the zero point for calibration by touching the integrated sensor surface with a milling tool. Upon contact, the LED on the calibration aid will light up red.







Determining the zero point





-13-

-12-

WP200 is designed for the standard stylus Ø3x20mm. With this, you achieve the highest accuracy.

When using other sizes, the tolerance/accuracy may change.

Tschorn 4.0



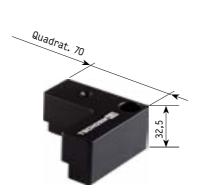












PW070

RC100

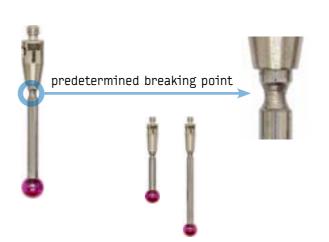
Art.no.: 0014ST210 - Ø2 x 10 mm

Art.no.: 0014ST220 - Ø2 x 20 mm Art.no.: 0014ST230 - Ø2 x 30 mm

for $\emptyset3x20$ mm as standard.

Art.no.: 0014ST320 - Ø3 x 20 mm

Please note:



Art.no.: 0014ST420 - Ø4 x 20 mm Art.no.: 0014ST430 - Ø4 x 30 mm

Order data:

Article no.	Description
0014WP200	Probing system workpiece probe WP200 (incl. receiver RC100)
0014TP125	Probing system tool probe TP125 (incl. receiver RC100)
0014WTP02	Complete system (workpiece/tool probe WP200/TP125) (incl. RC100)
0014TP135	Tool probe TP135 (cable connection)
0014ST210	Stylus Ø2x10 (M2)
0014ST220	Stylus Ø2x20 (M2)
0014ST230	Stylus Ø2x30 (M2)
0014ST320	Stylus Ø3x20 (M2)
0014ST420	Stylus Ø4x20 (M2)
0014ST430	Stylus Ø4x30 (M2)
0014KH102	Calibration aid KH100+ Ø13 x 100 mm
0014KH100	Simple Calibration aid KH100 Ø13 x 100 mm
0014PW070	Pos. station PW070
0014PW125	Pos. station PW070 with airblow for TP125



Probing technology



-15-

Testers

Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.



-17-

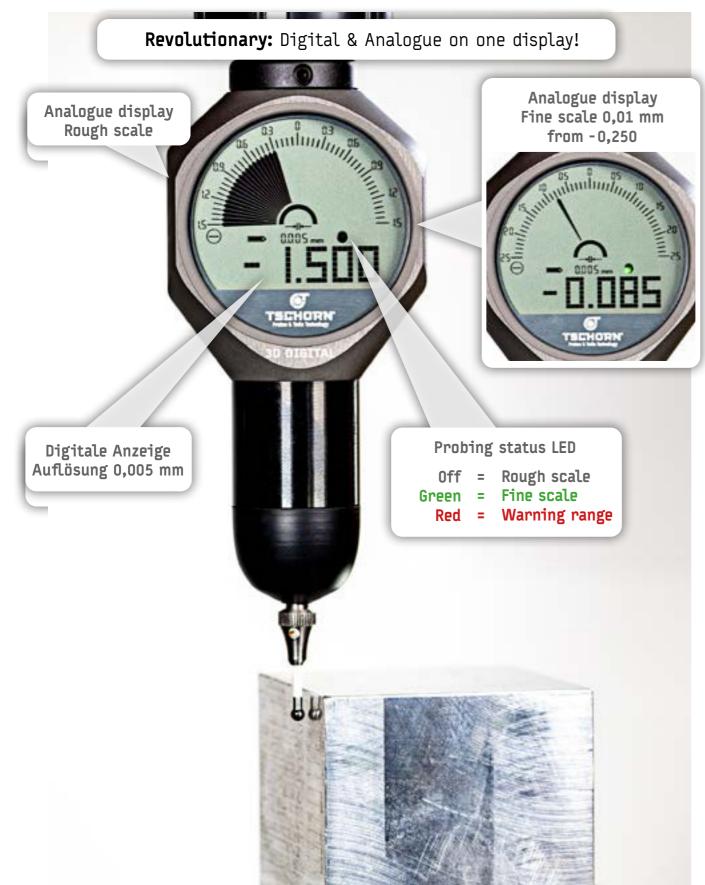








3D Digital



Revolutionary! The new 3D Tester Digital combines the best of two worlds, as the 3D Tester Digital is digital and analogue at the same time: The digital display with numbers allows you to accurately read digitally. Tracking a rapidly changing digital display with your eyes is nearly certainty, the additional analog display of the 3D Tester Digital gives you security when reading. Because a moving pointer can be followed visually much better and more reliably. Additionally, a built-in LED shows the status of your probing with the help of different colours and protects you from overpassing and a possible resulting defect. With the 3D Tester Digital, you quickly and easily determine workpiece zero points and lenghts in all axial directions (X/Y/Z) and you can adjust you workpiece or vice to the machine axis.

How to work with the 3D Tester Digital:

Clamp the 3D Tester into your tool holder, adjust the run-out and there you go:



Rough scale (1.5 till 0,25 mm) Fast approach and safe probing thanks to the analogue rough display. The eye can easily follow the progress as the black bar decreases clockwise.





Fine scale (0,25 till 0 mm) At -0,250 mm, the display changes to the fiee scale and the green LED lights up.





Zero point (precisely reached) When the "O" is reached, the spindle axis is positioned precisely on the edge of the workpiece.





Danger of crash (0 mm till ERR01) When overpassing, the LED warns in red and the black bar builds up clockwise to the right. Shortly before crash (>1 mm), you can see ERR01 on the display...



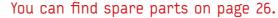


Made in Germany

-18--19Of course, the 3D Tester Digital is small and slim, waterproof (IP67) and is delivered with a serial number and a test certificate. The scope of delivery also includes a CR2450 battery and a ceramic probe tip Ø3. Both items are available as spare parts. Switch on the 3D Tester Digital by moving the probe tip in any direction X, Y or Z. If not used, the probe switches off after 2 minutes.











-21-

Slim. robust. waterproof. With Tschorn 3D Testers you quickly and easily determine workpiece zero points and lenght measurements or adjust your workpiece or vice parallel to your machine axis.

3D stands for three-dimensional probing in all axial directions (X/Y/Z) - and all of this is possible with the same indicator resolution.

V2 stands for the newest generation of our 3D Testers.

A seal protects the 3D Tester from oil and coolant (IP67).







The universal device, the bestseller

Identical to SLIMplus WHITE but easier to read because of the black dial face

-22-

slim built

Especially on big machines easier to read but nevertheless



How to work with the 3D Tester:

Clamp the 3D Tester into your tool holder.

Adjust the run-out as explained in the manual.

Approach your workpiece with the 3D Tester.

As soon as the indicators show "O", the spindle axis precisely stands on the workpiece edge.



X Crashed? Contact your reseller for service!

Delivery contains:

3D Tester with serial number, incl. probe tip ceramic Ø3, adjusting key, with factory certificate

Article No.	Description	Shank	Length	Tester
001V2D008	3D Tester SLIMplus V2 WHITE	Ø8	approx. 132,5 mm	Ø3
001V2D010	3D Tester SLIMplus V2 WHITE	Ø10	approx. 132,5 mm	Ø3
001V2D012	3D Tester SLIMplus V2 WHITE	Ø12	approx. 132,5 mm	Ø3
001V2DB12	3D Tester SLIMplus V2 BLACK	Ø12	approx. 132,5 mm	Ø3
001V2DA40	3D Tester SLIMplus V2 WHITE with shank DIN69871 A40	DIN69871 A40	approx. 132,5 mm	Ø3
001V2V012	3D Tester VIplus V2	Ø12	approx. 150,0 mm	Ø3

You can find spare parts on page 26.



-23-

Made in



Spanntechnologie [Probing technology] Tasttechnologie

Advantages:

- probing extremely depth
- also parallel running

Because its diameter is bigger than the body of the 3D Tester this probe tip allows probing in almost endless depth and opens up new possibilities. When using slim tool holders to clamp the 3D Tester (diameter smaller than 50 mm), you can extend the depth of probing as deep as you want. Find your workpiece position and check parallelism in almost endless depth.



Article No.	Description	Length	Tester
00163D056	Probe tip Ø56 for 3D Tester SLIMplus	62	Ø56

-24-

SAVEplus

The 3D Tester SAVEplus is also characterized by its slim design - however, it is the cost-effective variant among our 3D Tester models.



Delivery contains:

3D Tester incl. probe tip ceramic Ø3

Article No.	Description	Shank	Length	Tester
00163B012	3D Tester SAVEplus	Ø12	approx. 132,5 mm	Ø3

-25-



Crashed? Contact your reseller for service!

You can find spare parts on page 26.





Spare parts

The spare parts can be used for our 3D Tester models.



Easy screwing in and unscrewing of the probe tip thanks to the practical borehole.

Two hexagon keys size 2 are supplied with each 3D Tester SLIMplus, VIplus and DREHplus.

Article No.	Description	Length	Tester	Ŷ
00163CN03	Probe tip ceramic	approx. 27 mm	ØЗ	(A)
00163C006	Probe tip long ceramic	approx. 62 mm	Ø6	10
00163D099	Seal for 3D Tester	-	-	
001D32450	Spare battery CR2450	-	-	



Important Note:

When changing the probe tip, make sure not to damange the seal (see picture 1.), and check the run-out each time after changing the probe tip (see picture 2.). You will find a detailed description in the operating instructions.

-26-





Videos for training



3D Tester: Scope of delivery



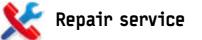
3D Tester: Run-out



3D Tester: Probing









Crashed?

All our 3D-Testers can be repaired.

Our worldwide resellers support you for any repair or service question.









-27-



DREHplus

The plus for your lathe!

Tool measurement in all axes also in the rotating center (Y)

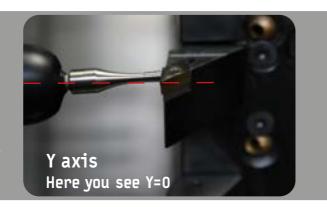
Innovative probing technology

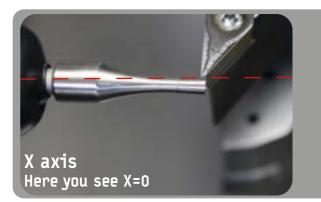
The conical probing corpus allows you to measure any possible cutting insert with various radii and / or angles at any point of the probing corpus. You probe until both indicators show "O". In this position, the outline of the conical probing corpus is exactly on the symmetry axis.

-28-

No other measuring equipment gives you the possibility to measure the rotating centre so simply, precisely and directly in your lathe.

Y=O corresponds to the rotating centre. As a result, you ensure the best possible proces-

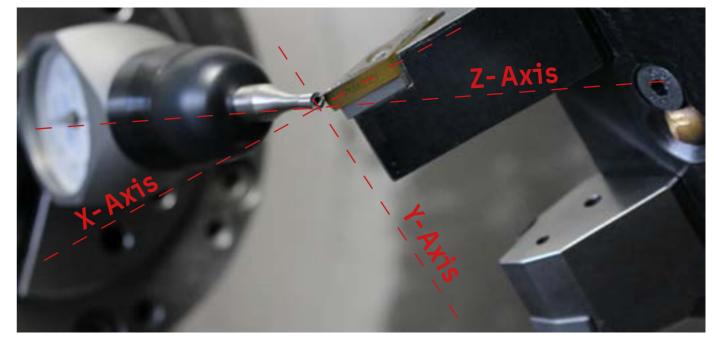




Without any further calculation, you measure your tools to the centre of the spindle, respectively X=0.



Measure your tools in all axes - especially in Y





No other measuring equipment gives you the possibility to measure your tool to the rotating centre simply, precisely and directly in your lathe. This is made possible by our unique probing technology which we have developed specifically for the use in your lathe.

On a ball, it is impossible to precisely measure sharp turning tools. This is why the 3D Tester DREHplus has a patented conical probing corpus. With this, you directly probe the centre of the spindle, both in X axis and in Y axis.

No need for further calculations, since X = 0 and Y = 0.



Crashed? Contact your reseller for repair service!

Delivery contains:

3D Tester incl. probe tip DREHplus, adjusting key, with factory certificate

Article No.	Description	Shank	Length	Tester
001V2T020	3D Tester V2 DREHplus V2	Ø20	approx. 138 mm	Ø3,6/Ø3,2
00163T036	Probe tip DREHplus	-	approx. 34 mm	Ø3,6/Ø3,2

-29-





Probing technology Tasttechnologie | Spanntechnologie Probing technology | Clamping technology | Tasttechnologie | Spanntechnologie Clamping technology

Your sales contact







+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.







-31-





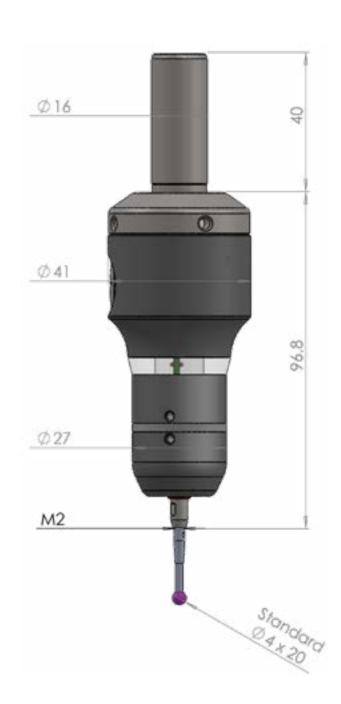


3D Tester tactile MP200

The new 3D Tester tactile MP200 is the groundbreaking advancement of our innovative TSCHORN 4.0 probing system, combined with the proven functionality of our manual probing systems.

Application: With the MP200, you achieve unprecedented probing accuracy in zero point determination.

Version: Probe with shank Ø16 and stylus Ø4x20 (M2))





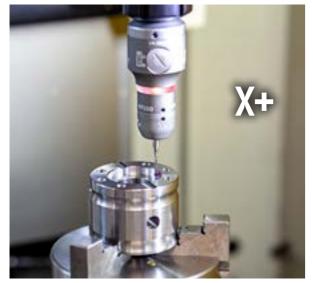


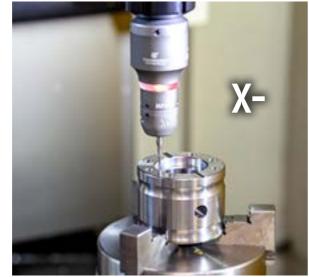
Art.no.: 0014ST430 - Ø4 x 30 mm

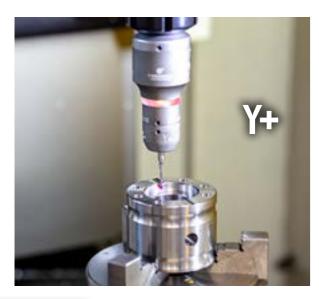
3D Tester tactile MP200

3D Tester tactile MP200

For easy handling, the measuring directions X+, X-, Y+ as well as Y- are engraved directly on the body of the probe:



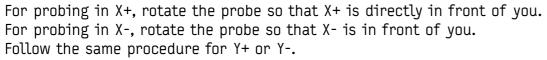








How to work with the 3D Tester MP200:



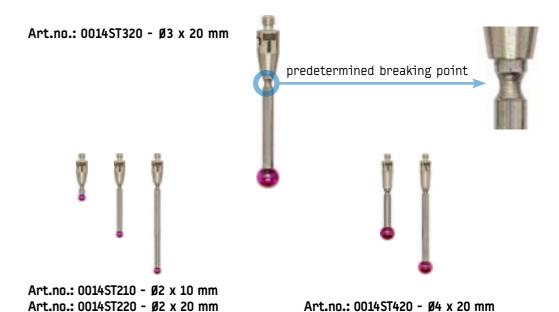
Through spindle rotation, we enable probing with a precision of up to 0.001 mm.

-34-

This sets new, unprecedented standards!



With the new innovative 3D Tester tactile, you are very flexible: You can customize the probe lengths and probe ball diameters to suit your needs with interchangeable probe tips.



Your benefits:

- Probing accuracy with spindle rotation up to 0.001 mm

Art.no.: 0014ST230 - Ø2 x 30 mm

- Tactile probing
- Flexible interchangeable styli (M2)
- Shank Ø16
- Adjustable run-out
- Waterproof
- Battery life > 1 year

Article No.	Description	Shank	Length
0014MP200	3D Tester tactile MP200 incl. stylus Ø4x20 (M2)	Ø16	96,8 + Stylus
0014ST210	Stylus Ø2x10 (M2)		
0014ST220	Stylus Ø2x20 (M2)		
0014ST230	Stylus Ø2x30 (M2)		
0014ST320	Stylus Ø3x20 (M2)		
0014ST420	Stylus Ø4x20 (M2)		
0014ST430	Stylus Ø4x30 (M2)		
00LS14250	Spare battery LS14250 (1/2 AA)		

-35-





finders optical Edge



Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.









Spanntechnologie

Edge finders optical

Edge finders 3D

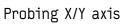
Produced only by us.

Functionality:

If a conductive workpiece and the probing ball touch (within the axis X, Y and Z), the electrical circuit gets closed and a LED signal appears.

When the LED signal appears, the workpiece's edge is reached with a distance of 5 mm (= radius of probing ball Ø10).

In Z axis, the reference length has to be measured and taken into account respectively.



Made in



Probing X/Y axis



Pass over

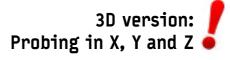
Probing Z axis



Developed by us.



Probing accuracy <= 0.010 mm





Application:

031019

3D

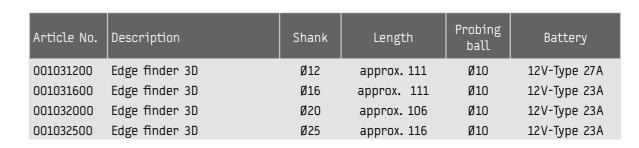
For accurate zero point determination and bore centers to the spindle with an accuracy of probing smaller than 0.010 mm.

Please note:

Protection against humidity is essential for the edge finder due to the built-in electronical components.

Delivery includes:

Edge finder with serial number and test certificate.





Edge finders optical 3D in wooden case

Article No.	Description	Shank	Length	Probing ball	Battery
001031299	Edge finder 3D	Ø12	approx. 111	Ø10	12V-Type 27A
001031699	Edge finder 3D	Ø16	approx. 111	Ø10	12V-Type 23A
001032099	Edge finder 3D	Ø20	approx. 106	Ø10	12V-Type 23A
001032599	Edge finder 3D	Ø25	approx. 116	Ø10	12V-Type 23A

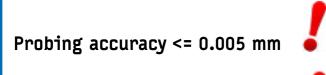


-38-

-39-

Ø20 h4

3D Precision probe

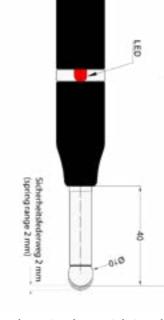


3D version: Probing in X, Y and Z



30 Precision probe





Application:

Our 3D precision probe is a higly precise measuring device which gives out highly precise three dimensional probing results on metal-cutting machines.

Accurracy:

Within all three axis, the accuracy of probing is smaller than 0.005 μm .

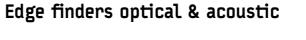
Please note:

Protection against humidity is essential for the edge finder due to the built-in electronical components.

Delivery includes:

3D precision probe with serial number and test certificate in a plastic case (for clean storage).

Article no.	Description	Shank	Length	Probing ball	Battery
001532000	3D precision probe	Ø20	approx. 167	Ø10	12V-Typ 23A





Probing accuracy <= 0.010 mm 3D version: Probing in X, Y and Z 2D version: Probing in X and Y



Application:

For accurate zero point determination and bore centers to the spindle with an accuracy of probing smaller than 0.010 mm. When you reach the position, you hear an additional acoustic signal.

Please note:

Protection against humidity is essential for the edge finder due to the built-in electronical components.

Delivery includes:

Edge finder with serial number and test certificate in a plastic

Article no	Description	Shank	Length	Probing ball	Battery
001122000	Edge finder optical + acoustic 2D	Ø20	approx. 119	Ø10	12V-Typ 23A
001132000	Edge finder optical + acoustic 3D	Ø20	approx. 131	Ø10	12V-Typ 23A

-41-



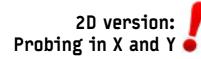


Precision



Edge finder optical 2D







Edge finders optical

Application:

For accurate zero point determination and bore centers to the spindle with an accuracy of probing smaller than 0.010 mm.

Please note:

Protection against humidity is essential for the edge finder due to the built-in electronical components.

Delivery includes:

Edge finder with serial number and test certificate in a plastic case.

Article No.	Description	Shank	Length	Probing ball	Battery
001021200	Edge finder 2D	Ø12	approx. 99	Ø10	12V-Type 27A
001021600	Edge finder 2D	Ø16	approx.99	Ø10	12V-Type 23A
001022000	Edge finder 2D	Ø20	approx.94	Ø10	12V-Type 23A
001022500	Edge finder 2D	Ø25	approx. 104	Ø10	12V-Type 23A
00102M200	Edge finder 2D	MK2	approx. 133	Ø10	12V-Type 27A

Edge finder optical 2D in wooden case

Article No.	Description	Shank	Length	Probing ball	Battery
001021299	Edge finder 2D	Ø12	approx. 99	Ø10	12V-Type 27A
001021699	Edge finder 2D	Ø16	approx. 99	Ø10	12V-Type 23A
001022099	Edge finder 2D	Ø20	approx. 94	Ø10	12V-Type 23A
001022599	Edge finder 2D	Ø25	approx. 104	Ø10	12V-Type 23A



Edge finder optical 2D Eco

TSCHORN: CO

The cost-effective version of our optical 2D edge finder: without serial number, without factory certificate - but Made in Germany

Article No.	Description	Shank	Length	Probing ball	Battery
0010216EP	Edge finder 2D	Ø16	approx. 99	Ø10	12V-Type 23A
0010220EP	Edge finder 2D	Ø20	approx. 94	Ø10	12V-Type 23A







Crashed? Contact your reseller for repair service!

Spare parts for optical edge finders

Article No.	Description	Volt
0011Z6000	Spare battery 23A	12V
0012Z6000	Spare battery 27A	12V







-42-

Edge finder gun-drilling

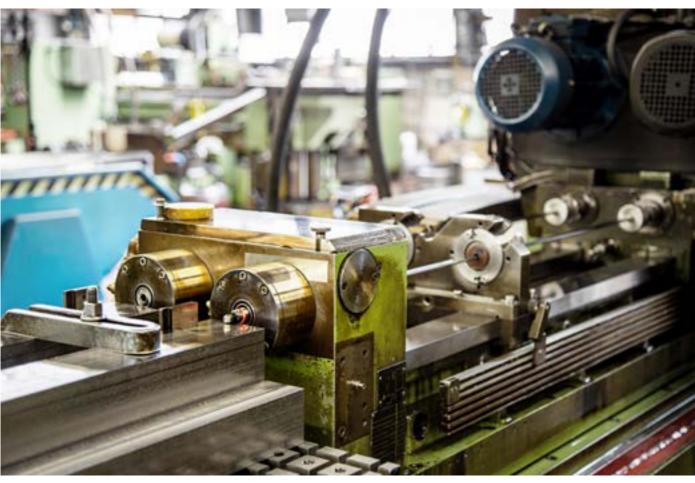
Edge finder gun-drilling

Quick and precise determination of the workpiece position on gun-drilling machines

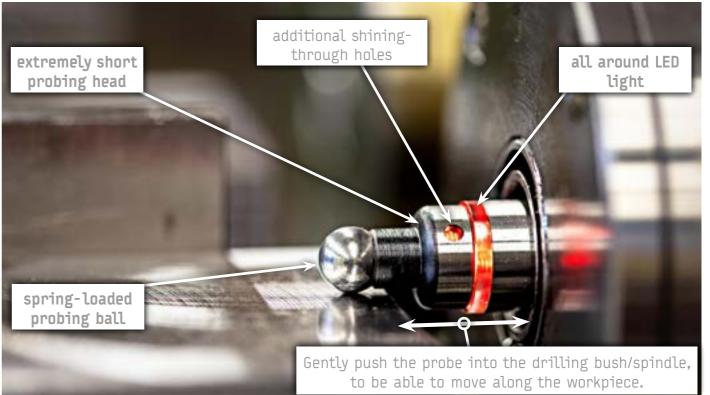








-44-



Innovative construction:

The shank and the probe head have been optimized for the use on gun-drilling machines. The construction has been optimized in a way that the edge finder can be pushed gently into the drilling bush/spindle. That's why the edge finder can be moved past the workpiece even if the distance between the drilling bush and the workpiece is extremely small.

Optical LED probing signal:

Thanks to additional shining-through holes and the all around LED light, the LED probing signal can always be seen easily and clearly, even when the distance between the drilling bush and the workpiece is very close.

Operating mode:

The red LED of the edge finder lights up as soon as the ball touches an electronical conductive workpiece. This reduces the time required to determine the workpiece position to a minimum compared to the conventional method.

Built-in security:

The probing ball is spring-mounted in the edge finder. This ensures protection from overrunning in X and Y.







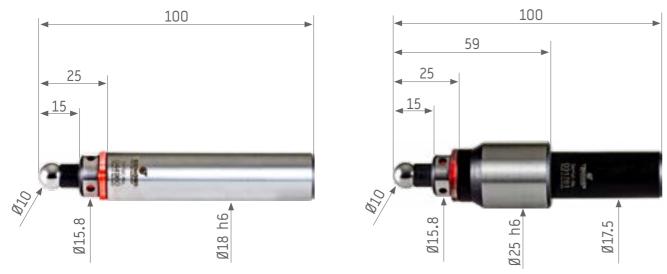


Spanntechnologie [Probing technology] Tasttechnologie

Wide application range: chose between two shank diameters $\emptyset18$ and $\emptyset25$. The edge finder for gun-drilling is clamped directly at the shank in the drilling bush/spindle.







Article No.	Description	Shank	Probing ball
001821800	Edge finder gun-drilling 2D - shank Ø18	Ø18	Ø10
001822500	Edge finder gun-drilling 2D - shank Ø25	Ø25	Ø10
0011Z6000	Spare battery 23A		



X Crashed? Contact your reseller for service!





-47-



Edge finders mech.

The origin of all testers!

To approach reference surfaces or edges with a highly precise repeatability.

We deliver all standard version edge finders with probe head Ø6 mm, Ø10 mm as well as the popular probe head Ø10/4 mm. Shanks are available with Ø6 mm, Ø10 mm and also Ø8 mm.

Special versions are our TIN edge finders. These are made out of antimagnetical stainless steel and are coated with a wear-resistant TIN layer.

We deliver all our edge finders in an environmentally friendly cardboard packaging. We also offer a wooden case for storage.





1. The edge finder body can be slipt out from the axis' centre by a gentle tip of the finger and is out-of-the-round.



2. By slowly and carefully approaching the rotating edge finder to the respective reference surface, the oscillation movement steadies

-48-



3. When reaching the final position, the edge finder body passes along the edge. Now, the position corresponds to the radius of the







Edge finders mechanical









Standard version:

(Made in India)

The standard version is manufactured by our long-term supplier in India according to our quality standards. Here in Germany, we check the edge finders in details in our quality laboratory so that we can guarantee the unique quality of our edge finders.

Article No.	Description	Shank	Tester
001000000	Edge finden mach	ac	ac.
001000600	Edge finder mech.	Ø6	Ø6
001001000	Edge finder mech.	Ø10	Ø10
001010400	Edge finder mech.	Ø10	Ø10 / Ø4
001081000	Edge finder mech.	Ø8 (Ø10)	Ø10
001081400	Edge finder mech.	Ø8 (Ø10)	Ø10
001000699	Edge finder (in wooden case)	Ø6	Ø6
001001099	Edge finder (in wooden case)	Ø10	Ø10
001010499	Edge finder (in wooden case)	Ø10	Ø10 / Ø4
001081099	Edge finder (in wooden case)	Ø8 (Ø10)	Ø10
001081499	Edge finder (in wooden case)	Ø8 (Ø10)	Ø10 / Ø4







-49-

Edge finders TIN













TIN version:

(Made in Germany)

The TIN version is **antimagnetical** and the probe head is made out of stainless steel. The probe head is covered with a wear-resistant TIN layer.

Article No.	Description	Shank	Tester
001TIN010	Edge finder TIN	Ø10	Ø10
001TIN104	Edge finder TIN	Ø10	Ø10 - Ø4



Edge finders straight

Straight version without collar (Made in India)

	•		
Artikel-Nr.	Description	Shank	Tester
001010000	Edge finder mech. Ø10 / Ø10 (straight)	Ø10	Ø10
001010600	Edge finder much MG-M10 / M10 (ctraight)	Ø10	Ø6 - Ø10



Edge finders ECO

TSCHORNECO

The cost-efficient version of our mechanical edge finders. (Made in India)

Article No.	Description	Shank	Tester
0010010EP	Edge finder mech.	Ø10	Ø10
0010104EP	Edge finder mech.	Ø10	Ø10 / Ø4

Spanntechnologie [Probing technology] Tasttechnologie





Edge finders mech.

Spare springs



Article No.	Description	Shank	Tester
001Z01000	Spare spring Ø4,6 x 40 (package contains: 10 pcs.)	Ø10 / Ø8	Ø10 / Ø10-Ø4
001Z00600	Spare spring Ø2,6 x 25 (package contains: 10 pcs.)	Ø6	Ø6

Repair kit

Content:

- 1 Cover
- 2 Spring
- 3 Pin
- 4 Mounting paste

А	rticle No.	Description	Shank	Tester
0	01K01000	Repair Kit	Ø10 / Ø8	Ø10 / Ø10-Ø4
0	01K00600	Repair Kit	Ø6	Ø6







Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.







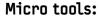


Spanntechnologie

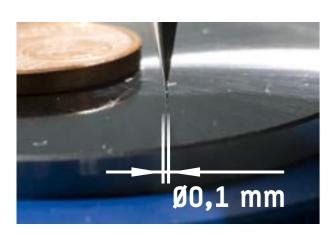
Zero setters

Zero setter Micro





We even measured milling tools with Ø0,1 mm without any problems.



-54-





Simple adjustment:

Push tester Small indicator at -2 mm Turn scale for large indicator to θ Ready!



To determine the position of workpiece surfaces or tool lengths in Z-direction at milling machines or lathes. The zero setter is placed on the workpiece. The spindle has to be moved carefully onto the tracer until the dial gauge indicates "O". The reference dimension 100 mm to the workpiece has been reached. A safety spring deflection of max. 2 mm is included.

Type:

To allow lateral mounting, a zero setter with built-in magnets is also available.

Delivery includes:

Zero setter with serial number and test certificate.





Artile No.	Description	Body	Tester
002400100	Zero setter Micro 100 mm without magnet	Ø54 , 5	Ø42
002402100	Zero setter Micro 100 mm with magnet	Ø54 , 5	Ø42
002UM0200	Spare dial gauge for zero setter Micro 100 mm		

-55-



Crashed? Contact your reseller for repair service!



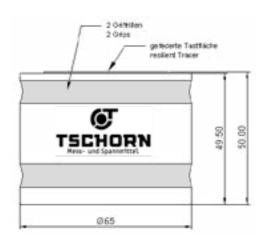




Zero setters

Zero setter mechanical





Application:

To determine the position of workpiece surfaces or tool lengths in Z-direction at milling machines or turning lathes. The zero setter is placed on the workpiece. The spindle has to be moved carefully onto the tracer until the dial gauge indicates "O". The reference dimension 50 mm to the workpiece has been reached. A safety spring deflection of max. 2 mm is included.

To allow lateral mounting, a zero setter with built-in magnets is also available.

Delivery includes:

Zero setter with serial number and test certificate.

Article No.	Description	Body	Tester
002101000	Zero setter 50 mm without magnet	Ø65	Ø47
002102000	Zero setter 50 mm with magnet	Ø65	Ø47

-56-

Zero setter mechanical Eco

TSCHORN©CO

The cost-efficient version of our mechanical zero setters: without serial number, without factory certificate - but Made in Germany





Article No.	Description	Body	Tester
0021010EP	Zero setter ECO 50 mm	Ø39	Ø20
0021020EP	Zero setter ECO 50 mm with magnet	Ø39	Ø20



Crashed? Contact your reseller for repair service!

Spare parts for mechanical zero setters

Article No.	Description	Body	Reading
002U01000	Spare dial gauge	Ø40	0,01 mm







-57-

Zero setters

Zero setter optical

Quick length measurement when turning and milling.







Application on the lathe thought-out in detail

Secure horizontal grip already at Ø8 thanks to 3 powerful magnets





Tolerance for the turning scrap, avoids measuring faults

-58-











Application:

To determine the position of workpiece surfaces or tool lengths in Z-direction at milling machines or lathes. The zero setter is placed on the workpiece. The spindle has to be moved carefully onto the tracer until the dial gauge indicates "0". The reference dimension 60 mm to the workpiece has been reached. A safety spring deflection of max. 2 mm is included.

Type:

To allow lateral mounting, a zero setter with built-in magnets is also available.

Delivery includes:

Zero setter with serial number and test certificat.

Article No.	Description	Body	Tester
002060100	Zero setter optical 60 mm without magnet	Ø32	Ø19
002060200	Zero setter optical 60 mm with magnet	Ø32	Ø19
0013Z4400	Spare battery SR44		

-59-



X Crashed? Contact your reseller for repair service!







Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.

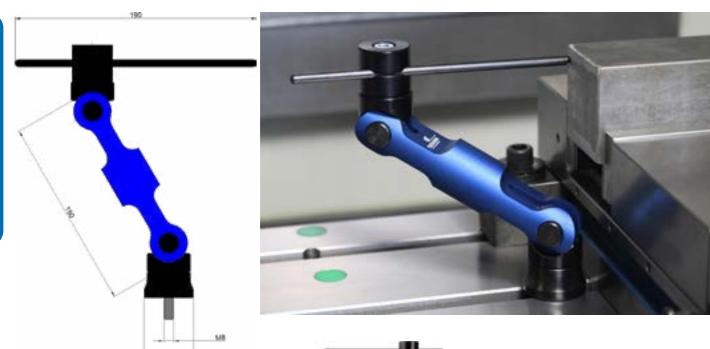








5D workpiece stopper





Stops



Combination element to extend or to combine two stoppers

Application:

One of the various application of the workpiece stopper is as a versatile instrument for the positioning on processing machines or during assembly.

-62-

Delivery includes:

Workpiece stopper with slide block M8x12.

Article No.	Description	Size
003420150	5D workpiece stopper	150
003400Z01	Combination element	
002080028	Slide block	M8 x 10
002140301	Slide block	M8 x 12
002140327	Slide block	M8 x 14
002153460	Slide block	M8 x 16
002153478	Slide block	M8 x 18

Slide block 10 - 18 mm



Workpiece stoppers with magnet



With its built-in magnets the workpiece stopper gets fixed directly to a bench vice (for example) and applies for exact positioning of your workpiece. After clamping, it can simply be removed and releases the positioning surface for processing.

The FlexiMag version is also equipped with a flexible rotate and swivel mechanism and makes it possible to position in a wide variety of places.





Article No.	Description	Shank	Holding force
003420001	FlexiMag - workpiece stopper	Ø30	200 N
003420002	EasyMag - workpiece stopper	Ø30	200 N







-63-



Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.









Spanntechnologie

Easy, independent, precise!

- exactly what you need!



Manual

Minimize set-up times with EasyZero zero point system

Useful in every detail!



EASY centre point:

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

EASY massively clamped:

and reduce vibrations.

Broad and massiv clamping

surfaces make the system stable

EASY laid open:

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



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.





-66--67Zero clamping system

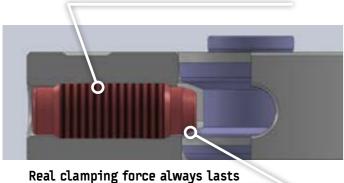
Tasttechnologie [Clamping technology] Spanntechnologie Tasttechnologie [Clamping technology] Spanntechnologie

EasyZero - Safety lock

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

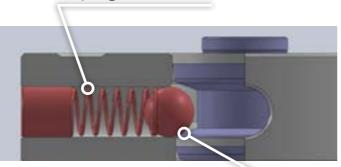
Clamping screw: insuperable



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.

Conventional spring clamping system

spring force: limited



Limited force fails in an emergency.

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:

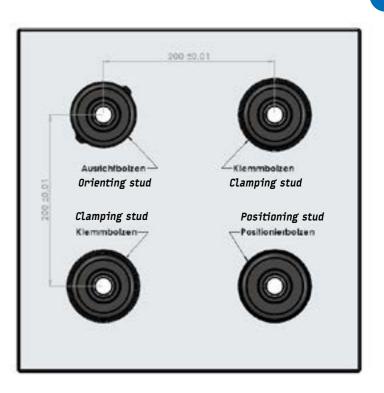
responsible for highly precise positioning.

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





Tasttechnologie

Probing technology

Clamping technology

-69-

Zero clamping system





Systems and accessories



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 1 pot

Art.No. 003501001



Basic system 2 pots Art.No. 003501002



Basic system 1 pot Art.No. 003504001





Space-saving

Basic system 1 pot Art.No. 003502001





Basic system 1 pot Art.No. 003503001



Cover stud 003521011

Clamping screw

003521021



Cover

003521012







Positioning stud Orienting stud 003521001 003521002

Clamping stud 003521003

Article	No. Description	A	В	Н
003501	O1 EasyZero Zero point system 1 pot for direct installation	Ø130	-	32
003502	01 EasyZero Zero point system 1 pot	Ø130	-	72
0035030	01 EasyZero Zero point system 1 pot	Ø147	-	125
003504	01 EasyZero Zero point system 1 pot	140	175	72
003501	02 EasyZero Zero point system 2 pots	340	175	72
0035010	04 EasyZero Zero point system 4 pots	340	375	72
0035110	D1 EasyZero Adapter plate 1 clamping point	180	180	26
0035110	D2 EasyZero Adapter plate 2 clamping points	346	156	26
0035110	D4 EasyZero Adapter plate 4 clamping points	346	346	26
0035210	01 EasyZero Positioning stud			
0035210	D2 EasyZero Orienting stud			
0035210	D3 EasyZero Clamping stud			
0035210	11 EasyZero Cover stud			
0035210	EasyZero Cover for boreholes (package: 5 pcs)			
0035210	21 EasyZero Clamping screw			
0035210	EasyZero Positioning segment 8 mm (for indexing in the indexing slot)			
0035210	EasyZero Adapter sleeve M12-M10 (for reducing from M12 to M10)			
0035210	EasyZero Positioning round sleeve Ø16 (for positioning of the pots)			

-71-

В

200





-70-

Clamping bolts

Tasttechnologie [Clamping technology] Spanntechnologie

Clamping bolts



Quick setting with the clamping bolts: move each single bolt without clamping screw into the slide block of the machine table and position the bolt by hand as a stopper at the workpiece. Tighten the clamping bolt and it automatically helps you to position the workpiece.

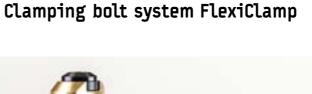
Flexible for diverse workpiece shapes: no matter if round, oval, quadratical or even pentagonal - with the help of the clamping bolts, you can clamp all forms.



Safely fixed: the clamping screws are added from above. They clamp the workpiece powerfully and securely. A soft exchangeable brass ring avoids damages or scratches at the workpiece.

Drill-through: there is not much disturbing space under the workpiece - no clamping jaws, no base, nothing is disturbing when you drill-through your workpiece with diverse divisions of pitch circles.

The small disturbing contour enables multi-purpose machining even at places which you normally hardly reach.





Build your own clamping system!

Full flexibility thanks to the modular principle

New, incredibly fast and individual application: FlexiClamp

Assemble your FlexiClamp clamping system with the parts you need for your machining!

The FlexiClamp bolts are a modern combination of an aluminum body and hardened steel surfaces. The bolts are available in heights of 50 and 80 mm.

The bolts are positioned and fastened using a centric screw with a hexagonal wrench while the bolt is stationary - without any undesired twisting.

You can reach any position on the machine table with the help of the transvers T-slot bar:









-72-

Probing technology | Clamping technology | Tasttechnologie |

Spanntechnologie

Probing technology

Clamping technology

-73-

Tasttechnologie | Spanntechnologie



Tasttechnologie [Clamping technology] Spanntechnologie Tasttechnologie [Clamping technology] Spanntechnologie



FlexiClamp is also suitable for series production, since the workpiece can be changed in just a few simple steps using the bearing clamping screw:









Decide which screw you need:



Art.No. 003S01000 Standard screw for small to medium-sized series: minimized interfering contours thanks to the very flat screw head.



Art.No. 003S02000 Bearing clamping screw also for large series: Faster workpiece changes due to the innovative contour of the bearing screw head.

Decide which clamping height you need:

Stable extension of the clamping height by 20 or 40 mm through a rigid extension with the same clamping screw length:





-74-

Extension 20 mm Art.No. 003S00Z11



Clamping bolt height 50 mm Art.No. 003S00050





Clamping bolt height 80 mm Art.No. 003S00080









Clamping ring (for bearing Clamping ring standard clamping srew) Art.No. 003S00Z22

Art.No. 003S00Z21

Transvers T-slot bar Art.No. 003S00Z40

Slide block 10 - 18 mm

Order data:

Article No.	Description
003S01050	FlexiClamp Set clamping bolt M8 height 50 mm + clamping screw standard
003S01080	FlexiClamp Set clamping bolt M8 height 80 mm + clamping screw standard
003S02050	FlexiClamp Set clamping bolt M8 height 50 mm + bearing clamping screw
003S02080	FlexiClamp Set clamping bolt M8 height 80 mm + bearing clamping screw
003S00050	FlexiClamp clamping bolt M8 height 50 mm
003S00080	FlexiClamp clamping bolt M8 height 80 mm
003S01000	FlexiClamp clamping screw standard 5-25 mm
003S02000	FlexiClamp bearing clamping screw 5-25 mm
003S00Z11	FlexiClamp clamping bolt extension +20mm
003S00Z12	FlexiClamp clamping bolt extension +40mm
003S00Z21	FlexiClamp clamping ring standard
003S00Z22	FlexiClamp clamping ring for bearing clamping screw
003S00Z40	FlexiClamp transvers T-slot bar 14 mm (for suitable T-slot distances 63, 100 and 125 mm)
002080028	Slide block M8 x 10
002140301	Slide block M8 x 12
002140327	Slide block M8 x 14
002153460	Slide block M8 x 16
002153478	Slide block M8 x 18

-75-

Made in Germany

Clamping bolts

Tasttechnologie [Clamping technology] Spanntechnologi

Clamping bolts

Conventional steel design



Clamping bolt 50 mm with thread M10 oder M12





Clamping bolt 100 mm with exchangeable threaded bolt



Clamping bolt 150 mm with exchangeable threaded bolt



- 1 clamping bolt
- 2 spring washer
- 3 clamping screw
- 4 clamping ring
- 5 threaded bolt

Type:

Flexible clamping tool for direct clamping on the machine table with direct fixation in the Tslot. Precise tolerance classes guarantee parallel clamping to the machine table. For the bolts with length 100 mm and 150 mm, exchangeable threaded bolts are available. The clamping ring prevents a damage of the workpiece.

Almost all types of flat workpieces can be clamped powerfully and precisely with these clamping bolts. The standard clamping range is 8-40 mm. With the clamping screws (available as spare part) it can be widened to a maximum of 87 mm.

Scope of delivery for height 50 mm:

Clamping bolts with fixed thread, ring & clamping screw with clamping ring

Article No.	Description	Height	Thread
003000050	Clamping bolt	50 mm	M10
003M12050	Clamping bolt	50 mm	M12





Scope of delivery for height 100 mm/150 mm:

Clamping bolts, threaded bolt M10, ring & clamping ring with clamping screw

Article No.	Description	Height	Thread
003000100	Clamping bolt	100 mm	M10
003000150	Clamping bolt	150 mm	M10

Spare parts for clamping bolts

Article No.	Description	Thread
003000Z00	Washer	-
003000Z02	Clamping ring	-
003000Z01	Clamping screw	8 mm - 40 mm
003000Z03	Clamping screw	40 mm - 67 mm
003000Z04	Clamping screw	65 mm - 87 mm
003000M10	Threaded bolt	M10
003000M12	Threaded bolt	M12
003000M14	Threaded bolt	M14
003000M16	Threaded bolt	M16



Set of clamping bolts

Delivery includes:

3 pcs. clamping bolts length 50 or 100, 3 pcs. clamping screw 40-67, 3 pcs. clamping screw 65-87, 1 pcs. The set is in a high-quality wooden case.

-77-

Article No.	Description	Height	Thread
003990050	Clamping bolt set	50 mm	M10
003990100	Clamping bolt set	100 mm	M10







Probing technology

-76-

Spanntechnologie |

Probing technology



Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service

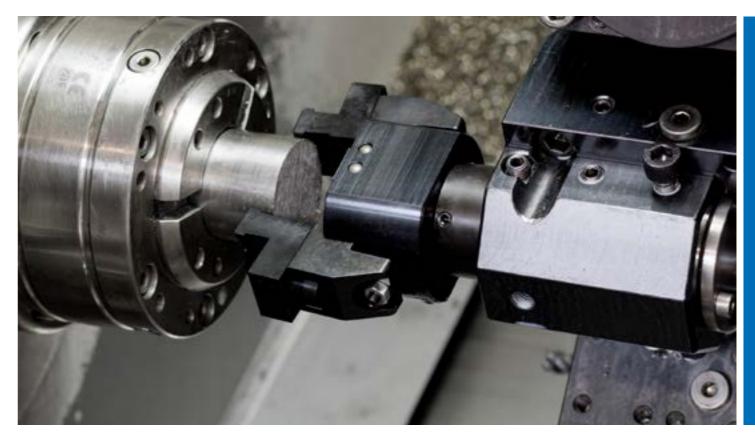


Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.





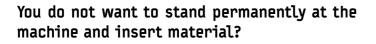




Spanntechnologie

Automate your lathe!





A bar gripper does this work for you. It automates your lathe - now your lathe is a fully automated production centre and saves money and time.

Easy and quickly, the bar gripper pulls the raw material and the machine goes on with the production directly. You do not need any expensive employees who add the material.



The bar gripper is available in diverse shank sizes - this is why you can use it on every lathe. Thanks to the flexible reversible jaws, it is usable in a wide clamping range which enables a wide range of applications.



Position the bar gripper in Z axis in front of the bar.



Now move onto the bar and open the chuck.



Pull the bar to the desired position in Z.



Close the chuck.



Move the bar gripper in Z direction off the bar and start machining.

Important note of safety:

Please use appropriate reducing tubes in your spindle and make sure that the rotating bar does not protrude out of the machine.

-81-



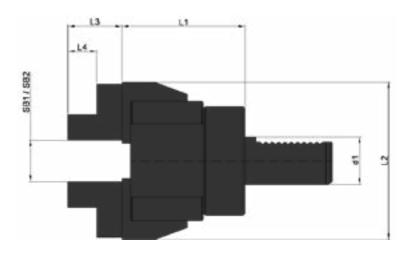
Made in Germany

-80-

Spanntechnologie | Probing technology |







Delivery includes:

Bar gripper, set of reversible clamping jaws



Bar gripper with VDI shank

Article No.	Description	Shank	SB1	SB2	L1	L2	L3	L4
00STG2000	Bar gripper	VDI20	6-45	45-100	77	99	34	18
00STG3000	Bar gripper	VDI30	6-45	45-100	77	99	34	18
00STG4000	Bar gripper	VDI40	6-56	56-110	79	111	34	18
00STG5000	Bar gripper	VDI50	6-56	56-110	79	111	34	18

Bar gripper with cylindrical shank

Article No.	Description	Shank	SB1	SB2	L1	L2	L3	L4
OOSTG20ZY	Bar gripper	Ø20	6-45	45-100	77	99	34	18
OOSTG25ZY	Bar gripper	Ø25	6-45	45-100	77	99	34	18
OOSTG32ZY	Bar gripper	Ø32	6-45	45-100	77	99	34	18
OOSTG40ZY	Bar gripper	Ø40	6-56	56-110	79	111	34	18

Spare parts

Article No.	Description
00STG0001	Set of reversible clamping jaws





-83-





Assembly system

Assembly system







The assembly system is flexible: all popular adapter types and sizes are available and offer a quick and precise handling of your tools. The change of the adapters is easy and simple - you can mount your tools holders within seconds.

Tasttechnologie [Clamping technology] Spanntechnolog

The assembly system is not only time-saving but also helps you to have longlasting tool holders: thanks to our unique technology, the tool holder is not clamped at its precise conus - the conus is free. This is safer for your tool holders and no damages ensure a precise processing of the parts you have to manufacture.

As the adapter is rotatable, you can turn your tool at any time within seconds to the desired position. This enables ergonomic and healthy working conditions.

Also job safety is important. All adapters have been developed to guarantee form-closed and safe fixation of the tool holders. It is not possible to slip off, even not with a lot of power. This prevents accidents and injuries.













-84-

-85-

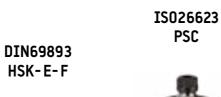


Assembly system





DIN69893





Type

- aluminum body • 4 x 90° revolving
- modular tool holders made of steel
- quick and easy exchange system
- high flexibility
- interlocking fixation of the tools
- conus cannot be damaged
- minimum space required
- optimal ergonomics
- quick and safe tool exchange within seconds



Assembly system basic unit



711 61066 1101	beech ipeloli
004000000	Assembly system basic unit



Assembly system adaptors



Article No.	Description	Norm	Size
004100130	Adaptor	DIN69871, JIS B	SK30
004100140	Adaptor	DIN69871, JIS B	SK40
004100150	Adaptor	DIN69871, JIS B	SK50
004100132	Adaptor	JIS B double contact	BT30+
004100142	Adaptor	JIS B double contact	BT40+
004100540	Adaptor	DIN69893	HSK40-A
004100550	Adaptor	DIN69893	HSK50-A
004100563	Adaptor	DIN69893	HSK63-A
004101563	Adaptor	DIN69893	HSK63-E-F
004100580	Adaptor	DIN69893	HSK80-A
004100510	Adaptor	DIN69893	HSK100-A
004100620	Adaptor	DIN69880	VDI20
004100625	Adaptor	DIN69880	VDI25
004100630	Adaptor	DIN69880	VDI30
004100640	Adaptor	DIN69880	VDI40
004100650	Adaptor	DIN69880	VDI50
004100C32	Adaptor	IS026623	PSC32
004100C40	Adaptor	IS026623	PSC40
004100C50	Adaptor	IS026623	PSC50
004100C63	Adaptor	IS026623	PSC63
004100C80	Adaptor	ISO26623	PSC80















-86-

-87-

Assembly device

Tasttechnologie [Clamping technology] Spanntechnologie Tasttechnologie [Clamping technology] Spanntechnologie

Assembly device



Assembly device with tool holder made out of steel for safe clamping of your tool holders. Thanks to a unique technology, the tool holders are not clamped at their precise cones. So the cones are free. This is unique safe for your tool holders and ensures precise processing of the parts you have to manufacture.







Turn your tool at any time within seconds into the desired position. Ergonomic and healthy working conditions thanks to the practical rotating function.

-88-





The assembly device is available at the sizes SK30, SK40, HSK63 as well as VDI25, VDI30 and VDI40. Other sizes are available on request.









Article No.	Description	Norm	Size
004300130	Assembly device	DIN69871, JIS B	SK30
004300140	Assembly device	DIN69871, JIS B, DIN2080	SK40
004300563	Assembly device	DIN69893	HSK63
004300625	Assembly device	DIN69880	VDI25
004300630	Assembly device	DIN69880	VDI30
004300640	Assembly device	DIN69880	VDI40

Other sizes are available on request.





-89-



Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service

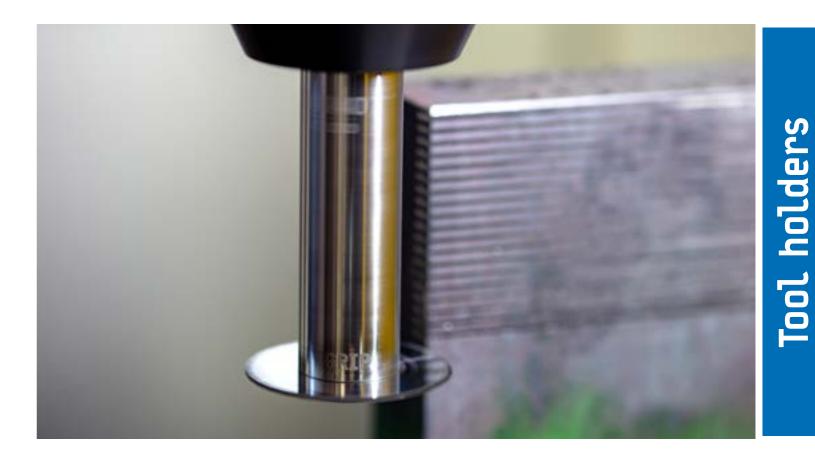


Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.









GRIP saw blade holders

Tasttechnologie [Clamping technology] Spanntechnologie



Compare:



Available from now in all known shank sizes!



Made in Germany





-92-

Saw blade holders

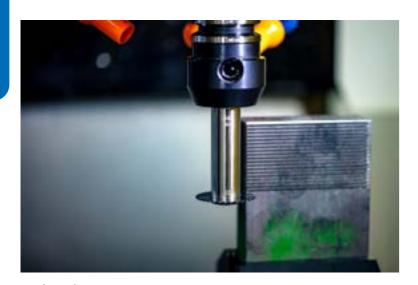
Application:

For precise holding of saw blades

Type:

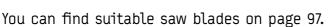
Saw blade holders

With parallel shank for a fixture in plain chuck jaws, high true running accuracy



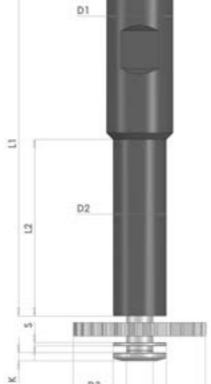
Order data GRIP saw blade holders with diamond coating:

Article No.	Description	L1	L2	D1	D2	D3	K	S
000GS1020	GRIP holder for saw blade Ø20	75	30	Ø10	Ø10	Ø5	2,5	1
000GS2020	GRIP holder for saw blade Ø20	90	30	Ø20	Ø10	Ø5	2,5	1
000GS1025	GRIP holder for saw blade Ø25	88	48	Ø10	Ø13	Ø8	2,5	1
000GS2025	GRIP holder for saw blade Ø25	100	42	Ø20	Ø13	Ø8	2,5	1
000GS1032	GRIP holder for saw blade Ø32	93	53	Ø10	Ø16	Ø8	2,5	1
000GS2032	GRIP holder for saw blade Ø32	105	53	Ø20	Ø16	Ø8	2,5	1
000GS1040	GRIP holder for saw blade Ø40	100	60	Ø10	Ø19 , 5	Ø10	3	1
000GS2040	GRIP holder for saw blade Ø40	110	60	Ø20	Ø19 , 5	Ø10	3	1
000GS1650	GRIP holder for saw blade Ø50	126	78	Ø16	Ø24 , 5	Ø13	3	1
000GS2550	GRIP holder for saw blade Ø50	136	78	Ø25	Ø24 , 5	Ø13	3	1
000GS1663	GRIP holder for saw blade Ø63	126	78	Ø16	Ø24 , 5	Ø16	3	1
000GS2563	GRIP holder for saw blade Ø63	136	78	Ø25	Ø24 , 5	Ø16	3	1
000GS2080	GRIP holder for saw blade Ø80	142	92	Ø20	Ø34	Ø22	4	1
000GS2580	GRIP holder for saw blade Ø80	150	92	Ø25	Ø34	Ø22	4	1
000GS2010	GRIP holder for saw blade Ø100	142	92	Ø20	Ø39 , 5	Ø22	4	1
000GS2510	GRIP holder for saw blade Ø100	150	92	Ø25	Ø39,5	Ø22	4	1



-94-







(D2)

Sägeblatt Ø

Hinweis:

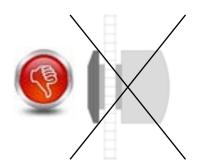
For the precise use of your saw blade holder, please pay attention to the correct insertion of the washer (see picture below).

When choosing your cutting data, e.g. cutting speed and the feed rate, please take into account that your saw blade is only held by surface pressure.

Too high cutting data or a dull saw blade can lead to hooking or stopping of the saw blade which can result in damages at your workpiece, saw blade, saw blade holder or even at your machine.







Order data standard saw blade holders:

Article No.	Description	L1	L2	D1	D2	D3	К	S
0000S1020	Holder for saw blade Ø20	75	30	Ø10	Ø10	Ø5	2,5	1
0000S2020	Holder for saw blade Ø20	90	30	Ø20	Ø10	Ø5	2,5	1
0000S1025	Holder for saw blade Ø25	88	48	Ø10	Ø13	Ø8	2,5	1
0000S2025	Holder for saw blade Ø25	100	42	Ø20	Ø13	Ø8	2,5	1
0000S1032	Holder for saw blade Ø32	93	53	Ø10	Ø16	Ø8	2,5	1
0000S2032	Holder for saw blade Ø32	105	53	Ø20	Ø16	Ø8	2,5	1
0000S1040	Holder for saw blade Ø40	100	60	Ø10	Ø19,5	Ø10	3	1
0000S2040	Holder for saw blade Ø40	110	60	Ø20	Ø19,5	Ø10	3	1
0000S1650	Holder for saw blade Ø50	126	78	Ø16	Ø24 , 5	Ø13	3	1
0000S2550	Holder for saw blade Ø50	136	78	Ø25	Ø24 , 5	Ø13	3	1
0000S1663	Holder for saw blade Ø63	126	78	Ø16	Ø24 , 5	Ø16	3	1
0000S2563	Holder for saw blade Ø63	136	78	Ø25	Ø24 , 5	Ø16	3	1
0000S2080	Holder for saw blade Ø80	142	92	Ø20	Ø34	Ø22	4	1
0000S2580	Holder for saw blade Ø80	150	92	Ø25	Ø34	Ø22	4	1
0000S2010	Holder for saw blade Ø100	142	92	Ø20	Ø39,5	Ø22	4	1
0000S2510	Holder for saw blade Ø100	150	92	Ø25	Ø39 , 5	Ø22	4	1

You can find suitable saw blades on page 97.





Made in

-95-

Probing technology

Clamping technology

Spanntechnologie |

Probing technology

Clamping technology

Tasttechnologie | Spanntechnologie

Tasttechnologie |

Saw blade holder set

Saw blade holders in the following sizes: Ø20, Ø25, Ø32, Ø40, Ø50 and Ø63 with allen key in a suitcase.

Article No.	Description
0000\$0020	Saw blade holder set



Spare parts

Saw blade holders

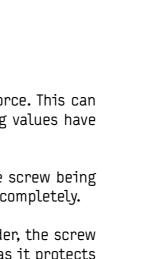
Safe use of the saw blade holders:

The saw blade stops rotation when the cutting force is greater than the holding force. This can happen because chips have got stuck, the saw blade is worn or blunt or the cutting values have been selected inappropriately.

As the spindle continues rotation, a stopped saw blade can inevitably result in the screw being screwed into the saw blade holder and consequently shearing off the screw head completely.

If your saw blade or the screw is broken, please check whether the saw blade holder, the screw or the washer are damaged. If in doubt, we also recommend replacing the washer, as it protects and ensures the precision of your saw blade holder.

Article No.	Description	Size	
0101S2020	Spare spring washer for saw blade holder	Ø20	
0101S2025	Spare spring washer for saw blade holder	Ø25	- 2
0101S2032	Spare spring washer for saw blade holder	Ø32	- /
0101S2040	Spare spring washer for saw blade holder	Ø40	
0101S2550	Spare spring washer for saw blade holder	Ø50	
0101S2563	Spare spring washer for saw blade holder	Ø63	1
0101S4080	Spare spring washer for saw blade holder	Ø80	- 10
0101S4010	Spare spring washer for saw blade holder	Ø100	
0102S2020	Spare screw for saw blade holder	Ø20	
0102S2025	Spare screw for saw blade holder	Ø25	
0102S2032	Spare screw for saw blade holder	Ø32	
0102S2040	Spare screw for saw blade holder	Ø40	- 1
0102S2550	Spare screw for saw blade holder	Ø50	A
0102S2563	Spare screw for saw blade holder	Ø63	6
0102S4080	Spare screw for saw blade holder	Ø80	
0102S4010	Spare screw for saw blade holder	Ø100	

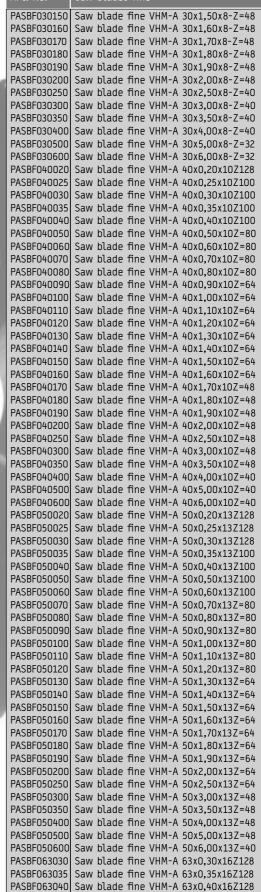






TSCHORN

Art. No.	Saw	blade	s fin	9	
PASBF020020					20x0,20x5-Z=80
PASBF020025					20x0,25x5-Z=64
PASBF020030					20x0,30x5-Z=64 20x0,35x5-Z=64
PASBF020035 PASBF020040					20x0,40x5-Z=64
PASBF020050					20x0,50x5-Z=48
PASBF020060					20x0,60x5-Z=48
PASBF020070					20x0,70x5-Z=48
PASBF020080					20x0,80x5-Z=48
PASBF020090					20x0,90x5-Z=40
PASBF020100					20x1,00x5-Z=40
PASBF020110	Saw	blade	fine	VHM-A	20x1,10x5-Z=40
PASBF020120	Saw	blade	fine	VHM-A	20x1,20x5-Z=40
PASBF020130					20x1,30x5-Z=40
PASBF020140					20x1,40x5-Z=40
PASBF020150					20x1,50x5-Z=40
PASBF020160					20x1,60x5-Z=40
PASBF020170					20x1,70x5-Z=40 20x1.80x5-Z=32
PASBF020180 PASBF020190					20x1,80x5-Z=32 20x1,90x5-Z=32
PASBF020200					20x2,00x5-Z=32
PASBF020250					20x2,50x5-Z=32
PASBF020300					20x3,00x5-Z=32
PASBF020350					20x3,50x5-Z=24
PASBF020400	Saw	blade	fine	VHM-A	20x4,00x5-Z=24
PASBF020500	Saw	blade	fine	VHM-A	20x5,00x5-Z=24
PASBF020600					20x6,00x5-Z=24
PASBF025020					25x0,20x8-Z=80
PASBF025025					25x0,25x8-Z=80
PASBF025030					25x0,30x8-Z=80
PASBF025035					25x0,35x8-Z=64
PASBF025040 PASBF025050					25x0,40x8-Z=64 25x0,50x8-Z=64
PASBF025060					25x0,60x8-Z=64
PASBF025070					25x0,70x8-Z=48
PASBF025080					25x0,80x8-Z=48
PASBF025090					25x0,90x8-Z=48
PASBF025100	Saw	blade	fine	VHM-A	25x1,00x8-Z=48
PASBF025110					25x1,10x8-Z=48
PASBF025120					25x1,20x8-Z=48
PASBF025130					25x1,30x8-Z=40
PASBF025140					25x1,40x8-Z=40
PASBF025150 PASBF025160					25x1,50x8-Z=40 25x1,60x8-Z=40
PASBF025160					25x1,70x8-Z=40
PASBF025180					25x1,80x8-Z=40
PASBF025190					25x1,90x8-Z=40
PASBF025200					25x2,00x8-Z=40
PASBF025250					25x2,50x8-Z=40
PASBF025300	Saw	blade	fine	VHM-A	25x3,00x8-Z=32
PASBF025350	Saw	blade	fine	VHM-A	25x3,50x8-Z=32
PASBF025400					25x4,00x8-Z=32
PASBF025500					25x5,00x8-Z=32
PASBF025600					25x6,00x8-Z=24
PASBF030020					30x0,20x8-Z100
PASBF030025					30x0,25x8-Z100
PASBF030030 PASBF030035					30x0,30x8-Z=80 30x0,35x8-Z=80
PASBF030040					30x0,40x8-Z=80
PASBF030050					30x0,50x8-Z=80
PASBF030060					30x0,60x8-Z=64
PASBF030070					30x0,70x8-Z=64
PASBF030080					30x0,80x8-Z=64
PASBF030090					30x0,90x8-Z=64
PASBF030100					30x1,00x8-Z=64
PASBF030110					30x1,10x8-Z=64
PASBF030120					30x1,20x8-Z=48



PASBF030130 Saw blade fine VHM-A 30x1,30x8-Z=48 PASBF030140 Saw blade fine VHM-A 30x1,40x8-Z=48



Tasttechnologie [Clamping technology] Spanntechnologie Tasttechnologie [Clamping technology] Spanntechnologie





3 & 100C3 1EC11110	wgy					
Art. No.	Saw	blades	fine	е		ı
PASBF063050					63x0,50x16Z128	1
PASBF063060					63x0,60x16Z100	
PASBF063070 PASBF063080					63x0,70x16Z100 63x0,80x16Z100	
PASBF063090					63x0,90x16Z100	L
PASBF063100					63x1,00x16Z100	u
PASBF063110					63x1,10x16Z=80	ľ
PASBF063120					63x1,20x16Z=80	
PASBF063130					63x1,30x16Z=80 63x1,40x16Z=80	
PASBF063140 PASBF063150					63x1,50x16Z=80	
PASBF063160					63x1,60x16Z=80	
PASBF063170					63x1,70x16Z=80	
PASBF063180					63x1,80x16Z=80	3
PASBF063190 PASBF063200					63x1,90x16Z=80 63x2,00x16Z=80	
PASBF063250					63x2,50x16Z=64	
PASBF063300					63x3,00x16Z=64	
PASBF063350					63x3,50x16Z=64	a
PASBF063400					63x4,00x16Z=64	И
PASBF063500 PASBF063600					63x5,00x16Z=48 63x6,00x16Z=48	
PASBF080030					80x0,30x22Z160	ı
PASBF080035	Saw	blade	fine	VHM-A	80x0,35x22Z160	
PASBF080040					80x0,40x22Z160	l.
PASBF080050 PASBF080060					80x0,50x22Z128 80x0,60x22Z128	В
PASBF080070					80x0,70x22Z128	r
PASBF080080					80x0,80x22Z128	
PASBF080090					80x0,90x22Z100	
PASBF080100					80x1,00x22Z100	
PASBF080110 PASBF080120					80x1,10x22Z100 80x1,20x22Z100	
PASBF080130					80x1,30x22Z100	k.
PASBF080140					80x1,40x22Z100	
PASBF080150					80x1,50x22Z100	п
PASBF080160					80x1,60x22Z100 80x1,70x22Z=80	
PASBF080170 PASBF080180					80x1,80x22Z=80	
PASBF080190					80x1,90x22Z=80	ı
PASBF080200					80x2,00x22Z=80	ı
PASBF080250					80x2,50x22Z=80	ı
PASBF080300 PASBF080350					80x3,00x22Z=80 80x3,50x22Z=64	
PASBF080400					80x4,00x22Z=64	
PASBF080500					80x5,00x22Z=64	ı
PASBF080600					80x6,00x22Z=64	ı
PASBF100050 PASBF100060					100x0,50x22Z160 100x0,60x22Z160	ı
PASBF100060					100x0,60x22Z160	ı
PASBF100080					100x0,80x22Z128	
PASBF100090					100x0 , 90x22Z128	
PASBF100100					100x1,00x22Z128	ı
PASBF100110 PASBF100120					100x1,10x22Z128 100x1,20x22Z128	ı
PASBF100130					100x1,20x22Z120	Р
PASBF100140					100x1,40x22Z100	
PASBF100150					100x1 , 50x22Z100	
PASBF100160					100x1,60x22Z100	
PASBF100170 PASBF100180					100x1,70x22Z100 100x1,80x22Z100	
PASBF100190					100x1,90x22Z100	
PASBF100200	Saw	blade	fine	VHM-A	100x2,00x22Z100	
PASBF100250					100x2,50x22Z100	
PASBF100300 PASBF100350					100x3,00x22Z=80 100x3,50x22Z=80	
PASBF100350					100x4,00x22Z=80	
PASBF100500					100x5,00x22Z=80	
DACDEAGGGGG	^		~			0.0

PASBF100600 Saw blade fine VHM-A100x6,00x22Z=64

	Art. No.	Saw
	PASBG020020	Saw
	PASBG020025	Saw
	PASBG020030	Saw
	PASBG020040	Saw
	PASBG020050	Saw
	PASBG020060	Saw
	PASBG020070	Saw
	PASBG020080	Saw
	PASBG020090	Saw
	PASBG020100	Saw
	PASBG020120 PASBG020150	Saw
	PASBG020160	Saw Saw
	PASBG020180	Saw
11:15	PASBG020200	Saw
	PASBG020250	Saw
	PASBG020300	Saw
	PASBG020400	Saw
	PASBG020500	Saw
2 7-	PASBG020600	Saw
	PASBG025020	Saw
	PASBG025025	Saw
	PASBG025030	Saw
	PASBG025040	Saw
	PASBG025050	Saw
- 7	PASBG025060	Saw
	PASBG025070	Saw
	PASBG025080	Saw
	PASBG025090 PASBG025100	Saw Saw
	PASBG025100	Saw
	PASBG025120	Saw
	PASBG025160	Saw
	PASBG025180	Saw
	PASBG025200	Saw
- 4	PASBG025250	Saw
255	PASBG025300	Saw
	PASBG025400	Saw
	PASBG025500	Saw
	PASBG025600	Saw
	PASBG030020	Saw
	PASBG030025	Saw
	PASBG030030	Saw
	PASBG030040	Saw
	PASBG030050	Saw
	PASBG030060 PASBG030070	Saw Saw
	PASBG030070	Saw
	PASBG030090	Saw
	PASBG030100	Saw
	PASBG030120	Saw
	PASBG030150	Saw
	PASBG030160	Saw
	PASBG030180	Saw
	PASBG030200	Saw
777	PASBG030250	Saw
	PASBG030300	Saw
	PASBG030400	Saw
	PASBG030500	Saw
	PASBG030600 PASBG040020	Saw
	PASBG040020	Saw
	PASBG040025	Saw Saw
	PASBG040030	Saw
	PASBG040050	Saw
	PASBG040050	Saw
	PASBG040070	Saw
	PASBG040080	Saw

t. No.			s rough		
SBG020020					20x0,20x5-Z=20
SBG020025					20x0,25x5-Z=20
SBG020030 SBG020040			_		20x0,30x5-Z=20 20x0,40x5-Z=20
SBG020050					20x0,50x5-Z=20
SBG020060					20x0,60x5-Z=20
SBG020070			_		20x0,70x5-Z=20
SBG020080			_		20x0,80x5-Z=20
SBG020090					20x0,90x5-Z=20
SBG020100 SBG020120					20x1,00x5-Z=20 20x1,20x5-Z=20
SBG020120					20x1,50x5-Z=20
SBG020160			_		20x1,60x5-Z=20
SBG020180					20x1,80x5-Z=20
SBG020200					20x2,00x5-Z=20
SBG020250 SBG020300			_		20x2,50x5-Z=20 20x3,00x5-Z=20
SBG020400					20x4,00x5-Z=20
SBG020500					20x5,00x5-Z=20
SBG020600	Saw	blade	rough	VHM-B	20x6,00x5-Z=20
SBG025020			U		25x0,20x8-Z=20
SBG025025			_		25x0,25x8-Z=20
SBG025030 SBG025040					25x0,30x8-Z=20 25x0,40x8-Z=20
SBG025050					25x0,50x8-Z=20
SBG025060					25x0,60x8-Z=20
SBG025070			_		25x0,70x8-Z=20
SBG025080					25x0,80x8-Z=20
SBG025090 SBG025100					25x0,90x8-Z=20 25x1,00x8-Z=20
SBG025120					25x1,20x8-Z=20
SBG025150					25x1,50x8-Z=20
SBG025160					25x1,60x8-Z=20
SBG025180 SBG025200					25x1,80x8-Z=20 25x2,00x8-Z=20
SBG025250					25x2,50x8-Z=20
SBG025300			_		25x3,00x8-Z=20
SBG025400					25x4,00x8-Z=20
SBG025500			_		25x5,00x8-Z=20
SBG025600 SBG030020					25x6,00x8-Z=20 30x0,20x8-Z=30
SBG030025					30x0,25x8-Z=30
SBG030030	Saw	blade	rough	VHM-B	30x0,30x8-Z=30
SBG030040					30x0,40x8-Z=30
SBG030050 SBG030060					30x0,50x8-Z=30 30x0,60x8-Z=30
SBG030070					30x0,70x8-Z=30
SBG030080					30x0,80x8-Z=24
SBG030090	Saw	blade	rough	VHM-B	30x0,90x8-Z=24
SBG030100					30x1,00x8-Z=24
SBG030120 SBG030150			_		30x1,20x8-Z=24 30x1,50x8-Z=24
SBG030150					30x1,60x8-Z=24
SBG030180					30x1,80x8-Z=24
SBG030200	Saw	blade	rough	VHM-B	30x2,00x8-Z=24
SBG030250			_		30x2,50x8-Z=24
SBG030300 SBG030400					30x3,00x8-Z=24 30x4,00x8-Z=24
SBG030500					30x5,00x8-Z=24
SBG030600					30x6,00x8-Z=24
SBG040020			_		40x0,20x10-Z40
SBG040025					40x0,25x10-Z40
SBG040030 SBG040040					40x0,30x10-Z40 40x0,40x10-Z40
SBG040050					40x0,50x10-Z40
SBG040060	Saw	blade	rough	VHM-B	40x0,60x10-Z40
SBG040070	Saw	blade	rough	VHM-B	40x0,70x10-Z40
SBG040080 SBG040090					40x0,80x10-Z32 40x0,90x10-Z32
DECOTOR	Jaw	blade	Jugil	41111-D	10,0,00,10,70

Art. No.	Saw	blade	s rougl	h		
PASBG0401	00 Saw	blade	rough	VHM-B	40x1,00x10-Z32	1
PASBG0401			_		40x1,20x10-Z32	
PASBG0401					40x1,50x10-Z32	
PASBG0401					40x1,60x10-Z32	
PASBG0401			_		40x1,80x10-Z32	4
PASBG0402 PASBG0402					40x2,00x10-Z32 40x2,50x10-Z32	
PASBG0403					40x3,00x10-Z32	
PASBG0404					40x4,00x10-Z32	
PASBG0405					40x5,00x10-Z32	
PASBG0406					40x6,00x10-Z32	
PASBG0500					50x0,40x13-Z48	
PASBG0500			_		50x0,50x13-Z48	
PASBG0500					50x0,60x13-Z48	Б
PASBG0500			_		50x0,70x13-Z40 50x0,80x13-Z40	100
PASBG0500					50x0,90x13-Z40	
PASBG0501					50x1,00x13-Z40	
PASBG0501					50x1,20x13-Z40	
PASBG0501	50 Saw	blade	rough	VHM-B	50x1,50x13-Z32	12
PASBG0501					50x1,60x13-Z32	
PASBG0501					50x1,80x13-Z32	
PASBG0502			_		50x2,00x13-Z32	
PASBG0502 PASBG0503					50x2,50x13-Z32 50x3,00x13-Z24	
PASBG0504			U		50x4,00x13-Z24	
PASBG0505					50x5,00x13-Z24	100
PASBG0506					50x6,00x13-Z20	r
PASBG0630	40 Saw	blade	rough	VHM-B	63x0,40x16-Z64	
PASBG0630			_		63x0,50x16-Z64	
PASBG0630			_		63x0,60x16-Z48	
PASBG0630					63x0,70x16-Z48	
PASBG0630			_		63x0,80x16-Z48 63x0,90x16-Z48	
PASBG0631			_		63x1,00x16-Z48	D.
PASBG0631					63x1,20x16-Z40	
PASBG0631			_		63x1,50x16-Z40	
PASBG0631			_		63x1,60x16-Z40	
PASBG0631					63x1,80x16-Z40	
PASBG0632			_		63x2,00x16-Z40	
PASBG0632					63x2,50x16-Z32	
PASBG0633 PASBG0634					63x3,00x16-Z32 63x4,00x16-Z32	
PASBG0635					63x5,00x16-Z24	
PASBG0636		_			63x6,00x16-Z24	
PASBG0800					80x0,60x22-Z64	
PASBG0800	70 Saw	blade	rough	VHM-B	80x0,70x22-Z64	
PASBG0800					80x0,80x22-Z64	
PASBG0800					80x0,90x22-Z48	
PASBG0801 PASBG0801					80x1,00x22-Z48 80x1,20x22-Z48	
PASBG0801					80x1,50x22-Z48	
PASBG0801					80x1,60x22-Z48	
PASBG0801					80x1,80x22-Z40	
PASBG0802	00 Saw	blade	rough	VHM-B	80x2,00x22-Z40	9
PASBG0802					80x2,50x22-Z40	
PASBG0803					80x3,00x22-Z40	
PASBG0804			_		80x4,00x22-Z32	
PASBG0806					80x5,00x22-Z32 80x6,00x22-Z32	
PASBG1000					100x0,60x22Z=80	
PASBG1000					100x0,70x22Z=80	
PASBG1000	80 Saw	blade	rough	VHM-B	100x0,80x22Z=64	
PASBG1000	90 Saw				100x0 , 90x22Z=64	
		17 1	rough	VHM-B	100x1,00x22Z=64	1
PASBG1001	00 Saw					
PASBG1001 PASBG1001	00 Saw 20 Saw	blade	rough	VHM-B	100x1,20x22Z=64	
PASBG1001 PASBG1001 PASBG1001	00 Saw 20 Saw 50 Saw	blade blade	rough rough	VHM-B	100x1,20x22Z=64 100x1,50x22Z=48	
PASBG1001 PASBG1001	00 Saw 20 Saw 50 Saw 60 Saw	blade blade blade	rough rough rough	VHM-B: VHM-B: VHM-B:	100x1,20x22Z=64	

	Art. No.	Saw bla	ades	: rough	ı		
	PASBG100200	Saw bla	ade	rough	VHM-B1	00x2 , 00	x22Z=48
	PASBG100250 PASBG100300	Saw bla	ade	rough	VHM-B1	00x2,50	x22Z=48 x22Z=40
	PASBG100400 PASBG100500	Saw bla	ade	rough	VHM-B1	00x4 , 00	x22Z=40
Miller	PASBG100500		ade	rough	VHM-B1	00x5 , 00	x22Z=40 x22Z=32
© T							
TSCHORN							
-							
25							
PARTIE VIEW							
. , , , , , ,							





-98--99-

Made in



Die holders/MINIflex

Impossible to produce external threads quicker!







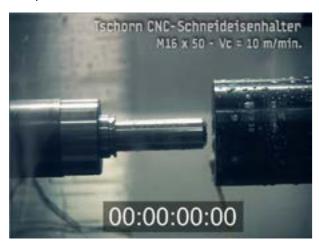
Impossible to produce external threads quicker! Our video shows the comparison: with the help of our die holder, you cut M16 threads with 50 mm lenght in only 12 seconds. This is 3 times faster as conventional thread chasing.

Additionally: a threading die has many blades - conventional thread chasing only one. This is why a defect blade at the die does not matter anymore. This optimizes your process stability extremely.

The die holder enables precise and cylindrical threads as you cut the thread in the die cylindrical. While chasing, the cutting pressure operates against the workpiece which can lead to vibrations, to evasion or even to conical threads.

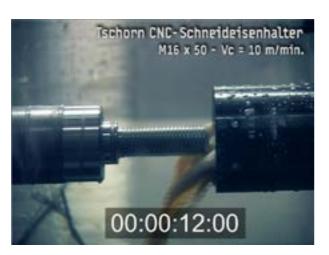
The die holder is internally cooled: the coolant supply ensures that the workpiece is permanently surrounded by coolant. This leads to high-quality threads and as the coolant flushes away all chips.

-100-











-101-



Tasttechnologie | Probing technology Clamping technology Probing technology | Clamping technology | Spanntechnologie Tasttechnologie | Spanntechnologie Die holders/MINIflex





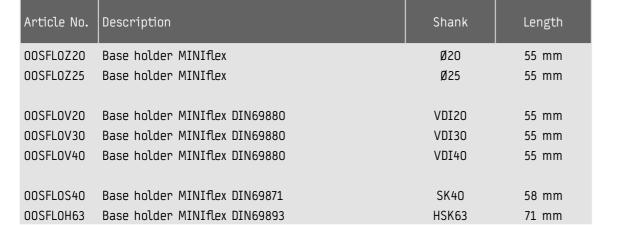


Cylindrical shank

DIN69880 VDI

DIN69871 SK40

DIN69893 HSK63





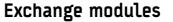
Extension















 $D = \emptyset$ of the die

L1 = Clamping length

L2 = Usable length

L3 = Width die

Please note:

With an extension, you can extend the usable length about 35 mm.

Article No.	Description	D	L1	L2	L3	Thread
00SEH1605	Exchange module	16	75	74	5	M1-M2,5
00SEH2005	Exchange module	20	75	74	5	M3-M4
00SEH2007	Exchange module	20	75	74	7	M5-M6
00SEH2509	Exchange module	25	75	74	9	M7-M9
00SEH3011	Exchange module	30	75	74	11	M10
00SEH3814	Exchange module	38	75	74	14	M12-M14
00SEH4518	Exchange module	45	85	84	18	M16-M20
ER modules	:					
00SEHER25	Exchange module ER25	Ø2 - Ø16	43			
OOSEHER32	Exchange module ER32	Ø2 - Ø20	43			



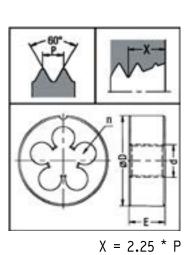
High performance dies

High performance dies **DIN EN 22568** Metric ISO thread DIN13

Article No. | Description

711 61066 1101	Decor ipcion			D D X E IIIIII	
PSE001M0200	Die HSSE 6g	M2	0,4	16x5	4
PSE001M0300	Die HSSE 6g	М3	0,5	20x5	5
PSE001M0400	Die HSSE 6g	M4	0,7	20x5	5
PSE001M0500	Die HSSE 6g	M5	0,8	20x7	5
PSE001M0600	Die HSSE 6g	M6	1	20x7	5
PSE001M0800	Die HSSE 6g	M8	1,25	25x9	5
PSE001M1000	Die HSSE 6g	M10	1,5	30x11	5
PSE001M1200	Die HSSE 6g	M12	1,75	38x14	5
PSE001M1600	Die HSSE 6g	M16	2	45x18	5

M20





Made in Germany

Made in //Germany

-102-

Spanntechnologie |

Probing technology

PSE001M2000 Die HSSE 6g

Clamping technology

Tasttechnologie | Spanntechnologie

2,5

45x18

-103-



Your sales contact



Katharina Wagner



+49 7181 606986 7

katharina.wagner@tschorn-gmbh.de



Sina Kortmann



+49 7181 606986 7

sina.kortmann@tschorn-gmbh.de



X Repair service



Crashed?

All our devices can be repaired.

Our worldwide resellers support you for any repair or service question.









-105-





NOGA measuring arms

Version:

Partner products

- movable in all directions
- extremely stable mech. execution
- central clamping mechanism
- easily and quickly adjustable
- fine adjustment at the top with universal dial gauge holder
- optionally with or without magnetic foot



Article No.	Description	Connection (below)	L1	L2	Arm length (total)	Magnet (L / B / H / force)
PANNF6103	NOGA measuring arm	Magnet	56	51	178	40 / 30 / 35 / 320N
PANNF6013	NOGA measuring arm	M5	56	51	178	-
PANDG6103	NOGA measuring arm	Magnet	110	101	282	60 / 50 / 55 / 800N
PANDG6013	NOGA measuring arm	M8	110	101	282	-
PANMG6103	NOGA measuring arm	Magnet	133	113	317	60 / 50 / 55 / 800N
PANMG6013	NOGA measuring arm	M8	133	113	317	-
PANMA6103	NOGA measuring arm	Magnet	287	223	580	120 / 50 / 55 1300N
PANMA6013	NOGA measuring arm	M10x1.25	287	223	580	-
PANDG1000 NOGA dial gauge 0,01 mm						
0017C2098	TSCHORN lever gauge 0	,01 mm				



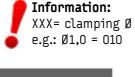
TSCHORN lever gauge Art.-Nr. 0017C2098

pairee

Collet chucks system ER according to DIN6499 B

Advantages:

- German collet steel
- durable
- finely deburred
- Concentricity < 6µm



-106-

Article No.	Description	Size	Sealed	clamping Ø
PAJOE11XXX	Collet chuck DIN6499 B	ER11	no	Ø1,0 - Ø7,0
PAJOE16XXX	Collet chuck DIN6499 B	ER16	no	Ø1,0 - Ø11,0
PAJ0E20XXX	Collet chuck DIN6499 B	ER20	no	Ø2,0 - Ø13,0
PAJ0E25XXX	Collet chuck DIN6499 B	ER25	no	Ø2,0 - Ø16,0
PAJ0E32XXX	Collet chuck DIN6499 B	ER32	no	Ø2,0 - Ø20,0
PAJ0E40XXX	Collet chuck DIN6499 B	ER40	no	Ø3,0 - Ø26,0



Piranha centering vises



Snapper: the most snappish!

The centering vise for roughing

Advantages:

- Minimal material loss at 3 mm clamping depth
- Clamping of raw parts without predetermination
- High repeatability: 0.01 mm

Article No.	Description	Size	Clamping range
PAP540362	Centering vise Snapper	170	5 mm - 118 mm
PAP540446	Centering vise Snapper (+10 mm)	170	5 mm - 118 mm
PAP540401	Centering vise Snapper	300	5 mm - 238 mm
PAP540447	Centering vise Snapper (+10 mm)	300	5 mm - 238 mm



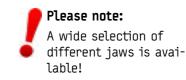


Gepard: the quickest!

The centering vise for finishing

Advantages:

- Quick changing system for jaws within se-
- Replaceable Snapper jaws (the snappy ones!)
- High precision coated guide pillars



Artikel-Nr.	Description	Size	Clamping range
PAP540444	Centering vise Gepard	170	0 mm - 160 mm
PAP540400	Centering vise Gepard	300	0 mm - 250 mm
PAP551018	Set top jaws ALUMINIUM M 50x98x41 mm	170	0 mm - 160 mm
PAP551020	Set top jaws ALUMINIUM M 50x131x51 mm	300	0 mm - 250 mm
PAP551033	Set top jaws STEEL M 50x98x41 mm	170	0 mm - 160 mm
PAP551046	Set top jaws STEEL M 50x131x51 mm	300	0 mm - 250 mm
PAP551009	Set top jaws Snapper short 50x98x22 mm	170	7 mm - 71 mm
PAP551007	Set top jaws Snapper short 50x131x22 mm	300	7 mm - 154 mm









Tschorn GmbH

Dieselstraße 8 73660 Urbach, Germany

General manager: Ralf Tschorn, Alexandra Tschorn

Shareholder: Ralf Tschorn



Images:

These images are subject to copyright: Made in Germany: © jokatoons - Fotolia.com

Our general terms can be found on our website: www.tschorn-gmbh.de.

Technical modifications subject to change.

Copyright

All rights reserverd. All pictures, graphics, images, texts, audio-, video- and animated data of this catalogue are subject to copyright or other rights to protect intellectual property. Copying, editing, changing or using this data in other electronical or printed publication is subject to prior explicit approval of the Tschorn GmbH.

