



2024 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.

Example: 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:









Protecting: with wrapping paper containing at least 70% waste paper

> Packing: with plastic-free product packaging

Labelling: with sustainable paper labels







Our probing and make the world simple, precise

clamping technologies of manufacturing and competitive.









Clamping technology Tasttechnologie Spanntechnologie



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



Made in Germany





Your sales contact





Katharina Wagner



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@ sina.kortmann@tschorn-gmbh.de





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.

Now all you have to do is decide which system variant is right for you:



WP110 & TP100 are our well-known automatic probing system TSCHORN 4.0.



WP200 & TP125 are the further development of our well-known automatic probing system TSCHORN 4.0 (see above: WP110 and TP100).



TP135 is like TP125, but with direct cable connection.

Example of use probing edges:



Advantages (WP110/TP100):

- electrical functionality reacts to
- electrial contact
- 10 mm ball
- cost-efficient







WP200

Advantages (WP200/TP125):

- tactile functionality reacts to touch
- exchangeable styli
- Measurements are possible in the machining process with corrections
- Tool correction during machining
- Tool breakage control

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Application range: Mainly zero point probing and tool probing in a dry environment

Application range:

Zero point probing and tool probing, even in a wet environment



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Functionality WP110 & TP100

The workpiece probe as well as the tool probe detect any contact with an electrical conductive workpiece or tool.

In the moment of the contact, 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.

Functionality WP200 & TP125

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.





Germany

Calibration

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 aid (art.no. 0014KH100) is available as an accessory.

Software: Smart-Macros from Tschorn

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

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:

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





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:

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Tschorn 4.0

Fanuc macros workpiece probing







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Dimensions





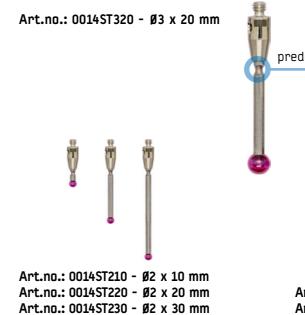


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We currently have styli with diameters of 2 mm, 3 mm and 4 mm available. The probe is designed for Ø3x20 mm as standard.

Please note:

WP200 is designed for the standard stylus Ø3x20mm. With this, you achieve the highest accuracy. When using other sizes, the tolerance/accuracy may change.



Order data:

Article no.	Description
0014WP110	Probing system workpiece probe WP110 (incl.
0014TP100	Probing system tool probe TP100 (incl. receive
0014WTP01	Complete system (workpiece/tool probe WP110
0014WP200	Probing system workpiece probe WP200 (incl.
0014TP125	Probing system tool probe TP125 (incl. receive
0014WTP02	Complete system (workpiece/tool probe WP200/
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)
0014KH100	Calibration aid KH100 Ø20 x 100 mm
0014PW070	Pos. station PW070
0014PW100	Pos. station with airblow for TP100
0014PW125	Pos. station with airblow for TP125

WP110





PW070

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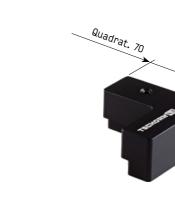
KH100





Made in

Germany





RC100





predetermined breaking point







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



receiver RC100) /er RC100) .0/TP100) (incl. receiver RC100)

receiver RC100) ver RC100) /TP125) (incl. RC100)



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Crashed?

All our devices can be repaired.

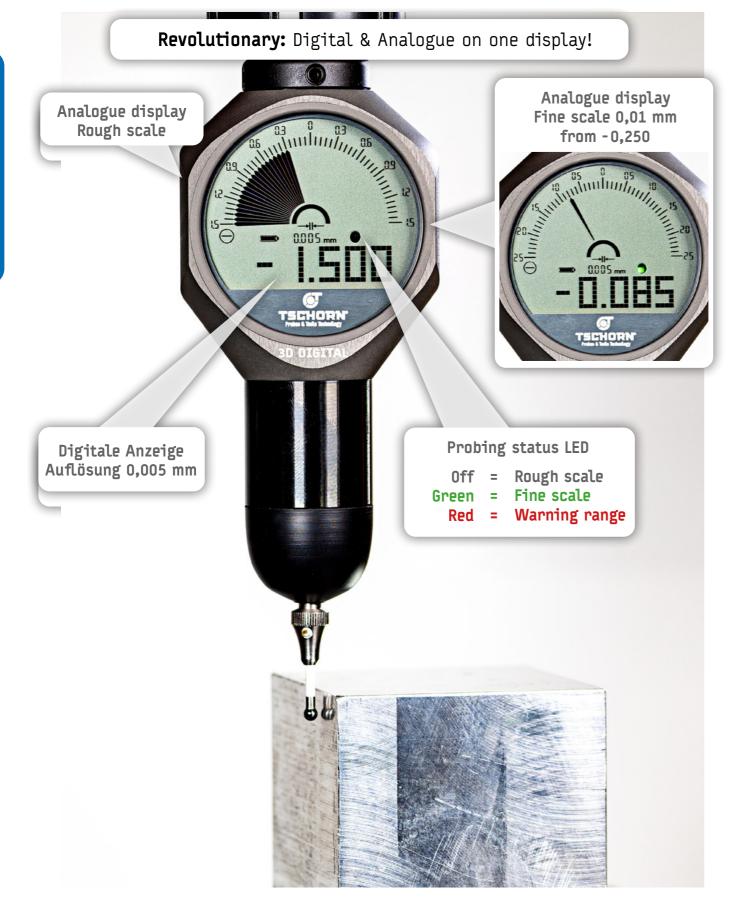
Our worldwide resellers support you for any repair or service question.











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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.







Fiee 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..





3D Digital





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Of 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 \emptyset 3. 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.

Revolutionary: Digital & Analogue on one display!



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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).





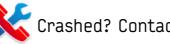
The universal device, the bestseller

Made in Germany Identical to SLIMplus WHITE but easier to read because of the black dial face -22Especially on big machines easier to read but nevertheless slim built

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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.



K 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.	Descriptior

001V2D012* 3D Tester SLIMplus V2 WHITE 001V2DB12* 3D Tester SLIMplus V2 BLACK 001V2DA40 3D Tester SLIMplus V2 WHITE with shank DIN698 001V2V012 3D Tester VIplus V2

*also available with shank Ø8 and Ø10 as special construction.

You can find spare parts on page 26.

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



	Shank	Length	Tester
	Ø12	approx. 132,5 mm	Ø3
	Ø12	approx. 132,5 mm	Ø3
871 A40	DIN69871 A40	approx. 132,5 mm	Ø3
	Ø12	approx. 150,0 mm	Ø3





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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

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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



K Crashed? Contact your reseller for service!



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3D Tester





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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	â
00163CN03	Probe tip ceramic	approx.27 mm	Ø3	-
00163C006	Probe tip long ceramic	approx.62 mm	Ø6	
00163D099	Seal for 3D Tester	-	-	🗸
001D32450	Spare battery CR2450	-	-	

Videos for training











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.









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3D Tester: Scope of delivery



3D Tester:

3D Tester: Probing



3D Tester

Crashed?

All our 3D-Testers can be repaired.

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









The plus for your lathe!

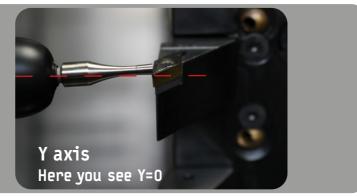
Tool measurement in all axes also in the rotating center (Y)

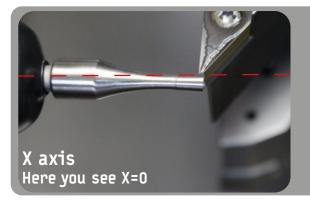
Innovative probing technology

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.

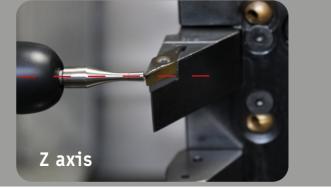
No other measuring equipment gives you the possibility to measure the rotating centre so simply, precisely and directly in your lathe.

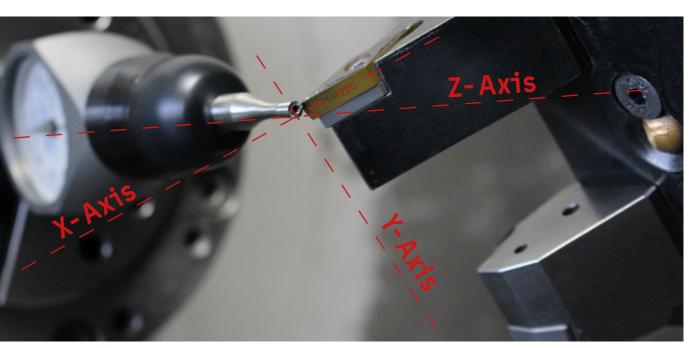
Y=O corresponds to the rotating centre. As a result, you ensure the best possible proces-





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







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.

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-		



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Measure your tools in all axes - especially in Y

Crashed? Contact your reseller for repair service!







Your sales contact





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Crashed?

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Edge finders 3D

Developed by us. 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.

Probing X/Y axis

Probing X/Y axis

Pass over

Probing Z axis







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Serial-No. 031019 Made in German

3D

Probing accuracy <= 0.010 mm 🍯

Application:

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.

Article No.	Description	Shank	Length	Probing ball	Battery
001031200	Edge finder 3D	Ø12	approx. 111	Ø10	12V-Type 27A
001031600	Edge finder 3D	Ø16	approx. 111	Ø10	12V-Type 23A
001032000	Edge finder 3D	Ø20	approx. 106	Ø10	12V-Type 23A
001032500	Edge finder 3D	Ø25	approx. 116	Ø10	12V-Type 23A

Edge finders optical 3D in wooden case

Article No.	Description	Shank	Length	Probing ball	Battery	P.C.
001031299	Edge finder 3D	Ø12	approx. 111	Ø10	12V-Type 27A	
001031699	Edge finder 3D	Ø16	approx. 111	Ø10	12V-Type 23A	(CONC.)
001032099	Edge finder 3D	Ø20	approx. 106	Ø10	12V-Type 23A	
001032599	Edge finder 3D	Ø25	approx. 116	Ø10	12V-Type 23A	Made in
			-33-			Germany







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









ORN

3D Precision probe Probing accuracy <= 0.005 mm 3D version: Probing in X, Y and Z 🥌 (spring range 2 mm) Video

Ø20 h4

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



Edge finders optical & acoustic



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: case.

Article no Description

Edge finder optical + acoustic 2D 001122000 001132000 Edge finder optical + acoustic 3D



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Edge find. opt. & acoust.

Probing accuracy <= 0.010 mm (

3D version: Probing in X, Y and Z 🦲

2D version: Probing in X and Y 🥌



Edge finder with serial number and test certificate in a plastic

Shank	Length	Probing ball	Battery
Ø20	approx. 119	Ø10	12V-Typ 23A
Ø20	approx.131	Ø10	12V-Typ 23A



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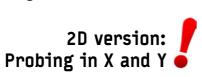




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Edge finder optical 2D





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



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Edge finder optical 2D Eco

TSCHORNCO

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!

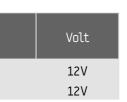
Spare parts for optical edge finders

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





Edge finders optical







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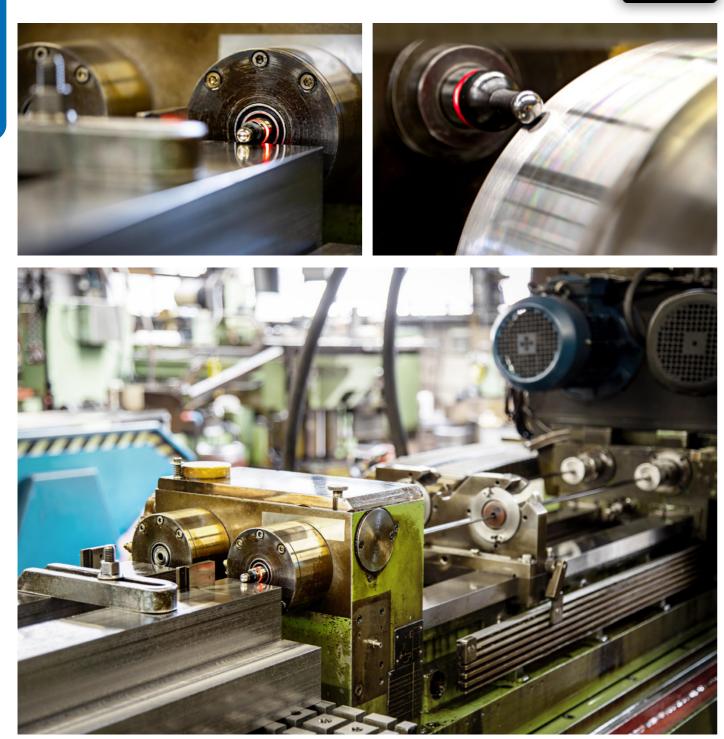


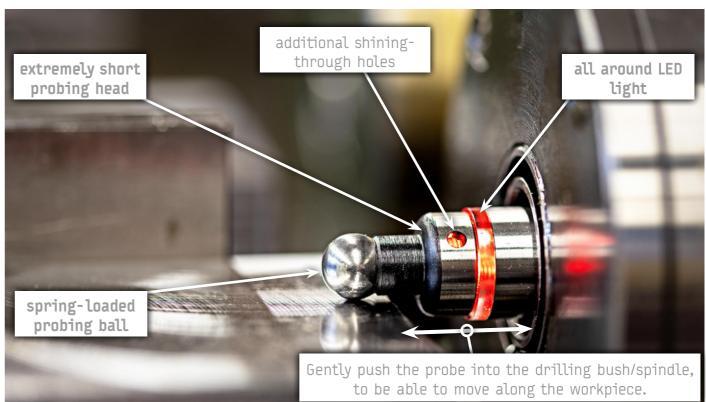
Edge finder gun-drilling

Edge finder gun-drilling

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







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.











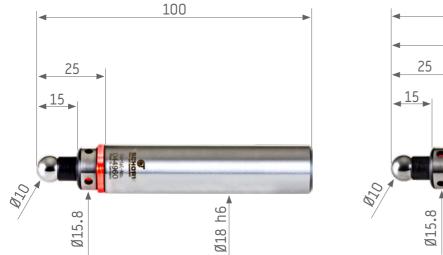
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Wide application range: chose between two shank diameters Ø18 and Ø25. The edge finder for gun-drilling is clamped directly at the shank in the drilling bush/spindle.



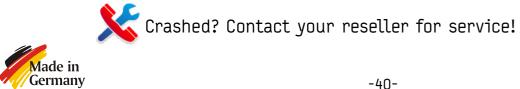






Article No.	Description	Shank	Probing ball
001821800	Edge finder gun-drilling 2D - shank Ø18	Ø18	Ø10
001822500	Edge finder gun-drilling 2D - shank Ø25	Ø25	Ø10
0011Z6000	Spare battery 23A		





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Edge finders mech.

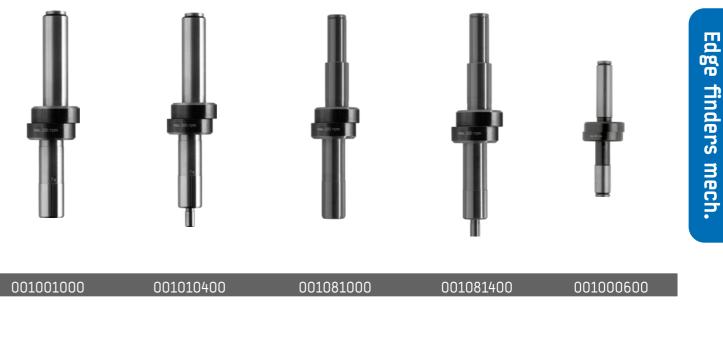
The origin of all testers!

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.





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
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



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.



Probing step 2

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



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

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Edge finders TIN

TSCHORN[®] bes & Tools Technology









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.

001TIN010 Edge finder TIN Ø10 Ø10 001TIN104 Edge finder TIN Ø10 Ø10	Article No.	Description	Shank	Tester	
	001TIN010	Edge finder TIN	Ø10	Ø10	
UUTIINTOA Fade under IIN NTO NTO NTO - NA	001TIN104	Edge finder TIN	Ø10	Ø10 - Ø4	

Edge finders straight Straight version without collar (Made in India) Artikel-Nr. Description Shank Tester Edge finder mech. Ø10 / Ø10 (straight) Ø10 Ø10 001010000 001010600 Edge finder mech. Ø6-Ø10 / Ø10 (straight) Ø10 Ø6 - Ø10

Spanntechnologie [Probing technology] Tasttechnologie

Edge finders ECO

TSCHORN CO

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

Article No.	Description
0010010EP	Edge finder mech.
0010104EP	Edge finder mech.

Spare springs

Article No.	Description
001Z01000	Spare spring Ø4,6 x 40 (package contains: 10
001Z00600	Spare spring Ø2,6 x 25 (package contains: 10

Repair kit

Content:	
1 - Cover 2 - Spring 3 - Pin 4 - Mounting pa	aste
Article No.	Description
001K01000 001K00600	Repair Kit Repair Kit



-44-







-45-





Your sales contact





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Crashed?

All our devices can be repaired.

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







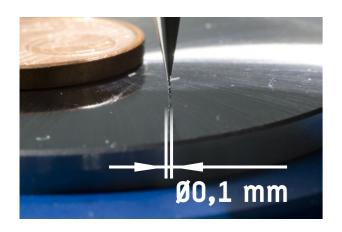


Spanntechnologie [Probing technology] Tasttechnologie Spanntechnologie [Probing technology] Tasttechnologie

Zero setter Micro



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







Simple adjustment: Push tester Small indicator at -2 mm Turn scale for large indicator to 0 Ready:

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 "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
002400100	Zero setter Micro 100 mm without magnet
002402100	Zero setter Micro 100 mm with magnet
002UM0200	Spare dial gauge for zero setter Micro 100 mm

K Crashed? Contact your reseller for repair service!

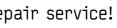
Made in Germany

-48-



Zero setters

100 mm Made in Germany TSCHORN" Body Tester Ø54,5 Ø42 Ø54,5 Ø42



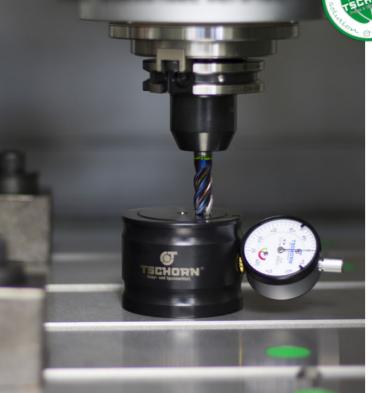
-49-

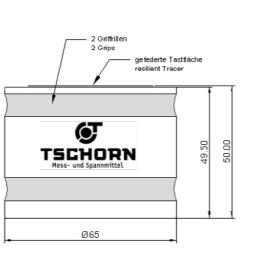


OPR

Zero setter mechanical

The classical version





Zero setter mechanical Eco

TSCHORNCO

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



0021010EP Zero setter ECO 50 mm 0021020EP Zero setter ECO 50 mm with magnet	Article No.	Description
0021020EP Zero setter ECO 50 mm with magnet	0021010EP	Zero setter ECO 50 mm
	0021020EP	Zero setter ECO 50 mm with magnet

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.

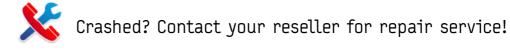
Type:

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

Delivery includes:

Zero setter with serial number and test certificate.

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



Spare parts for mechanical zero setters

Article No.	Description
002U01000	Spare dial gauge



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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





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 "O". The reference dimension 60 mm to the workpiece has been reached. A safety spring deflection of max. 2 mm is included.

Type:

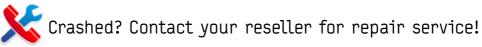
To allow lateral mounting, a zero setter with built-in magnets is also available.

Delivery includes:

Zero setter with serial number and test certificat.

Article No.	Description

002060100 Zero setter optical 60 mm without magnet 002060200 Zero setter optical 60 mm with magnet 0013Z4400 Spare battery SR44



Made in Germany

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Tasttechnologie Spanntechnologie



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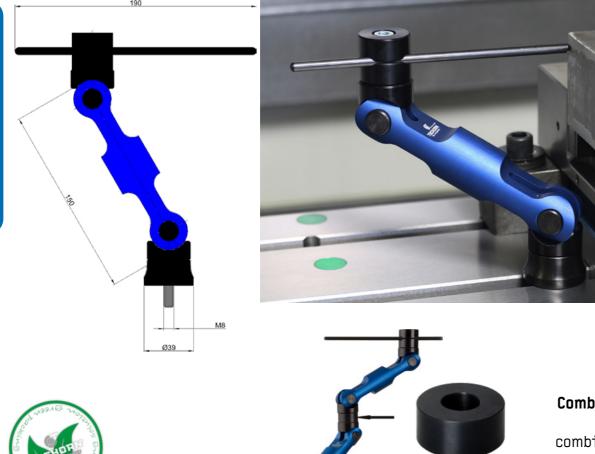






Tasttechnologie [Clamping technology] Spanntechnologie

5D workpiece stopper





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.

Delivery includes:

Workpiece stopper with slide block M8x12.

Article No.	Description	Size	
003420150	5D workpiece stopper	150	
			Slide
003400Z01	Combination element		10 - 1
002080028	Slide block	M8 x 10	
002140301	Slide block	M8 x 12	E
002140327	Slide block	M8 x 14	
002153460	Slide block	M8 x 16	
002153478	Slide block	M8 x 18	



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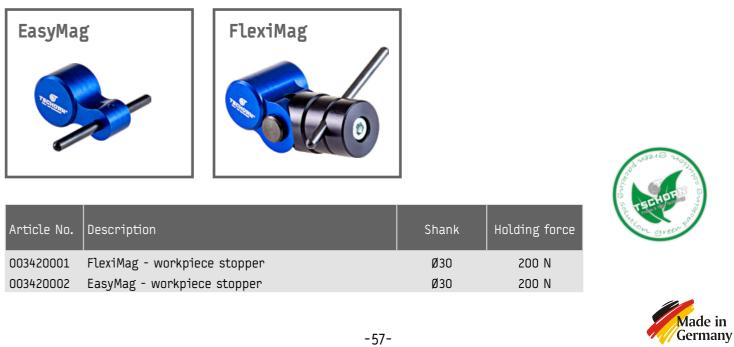


Workpiece stoppers with magnet



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	
003420001	ElexiMag - workniece stonner	



Stops



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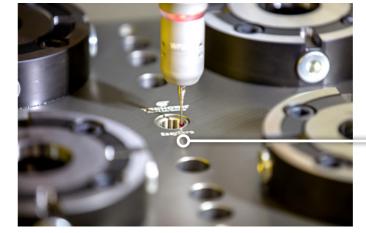






Easy, independent, precise! - exactly what you need!

Useful in every detail!





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





Manual

Minimize set-up times with EasyZero zero point system

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



-60-



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:

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

EASY indexed: Precisely indexed via the indexing slots width 8 mm.



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Tasttechnologie | Spanntechnologie



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

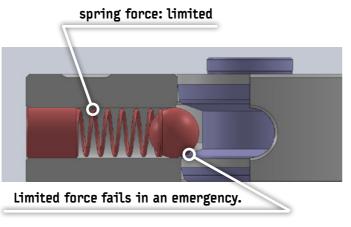
EasyZero - Safety lock

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.

Clamping screw: insuperable Real clamping force always lasts

EasyZero - Safety lock

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, 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.

EasyZero - Studs





Positioning stud

Orienting stud

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.

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.

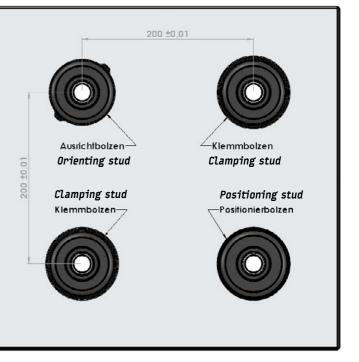








Clamping stud



It slips easily: minimized canting, user-friendly as well as highly precise.

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





Systems and accessories





Adapter plate 4 clamping points Art.No. 003511004



Basic system 4 pots Art.No. 003501004

For direct installation



Basic system 1 pot Art.No. 003501001



Adapter plate 2 clamping points Art.No. 003511002



Basic system 2 pots Art.No. 003501002

Space-saving



Basic system 1 pot Art.No. 003502001



Basic system 1 pot

Art.No. 003504001

Adapter plate

1 clamping point

Art.No. 003511001

Basic system 1 pot Art.No. 003503001

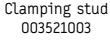


Positioning stud Orienting stud



003521002







Article-No.	Description	A	В	Н
003501001	EasyZero Zero point system 1 pot for direct installation	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)			



Cover stud 003521011

Made in Germany

Clamping screw

Cover 003521012 003521021

003521001

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Zero clamping system

-65-





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, guadratical 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.

Clamping bolt system FlexiClamp



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:



Transvers T-slot bar Art.No. 003S00Z40







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!





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FlexiClamp



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:

> Extension 40 mm Art.No. 003S00Z12



Extension 20 mm Art.No. 003S00Z11



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Clamping bolt height 50 mm Art.No. 003S00050







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

Art.No. 003S00Z21

Order data:

Article No. Description

003S01050	FlexiClamp Set clamping bolt M8 height 50 mm
003S01080	FlexiClamp Set clamping bolt M8 height 80 mm
003S02050	FlexiClamp Set clamping bolt M8 height 50 mm
003S02080	FlexiClamp Set clamping bolt M8 height 80 mm
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
003S00Z40	FlexiClamp transvers T-slot bar 14 mm (for suitable T-slot distances 63, 100 and 125 m
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

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





Clamping bolt height 80 mm Art.No. 003S00080



Transvers T-slot bar Art.No. 003S00Z40

+ clamping screw standard

+ clamping screw standard

+ bearing clamping screw

+ bearing clamping screw



Slide block 10 - 18 mm



g screw

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Tasttechnologie [Clamping technology] Spanntechnologie

Clamping bolts

Conventional steel design



SW18



Clamping bolt 100 mm with exchangeable threaded bolt

5



M10 oder M12

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.

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

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.



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Tasttechnologie [Clamping technology] Spanntechnolog

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
005000150		130 11111	1-110

Spare parts for clamping bolts

Article No.	Description	Thread	
003000Z00	Washer	-	0
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	M
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.

Article No.	Description	Height	Thread	
003990050	Clamping bolt set	50 mm	M10	11.2
003990100	Clamping bolt set	100 mm	M10	the second
				Made in
	-72	L-		Germany







Clamping bolts





Your sales contact





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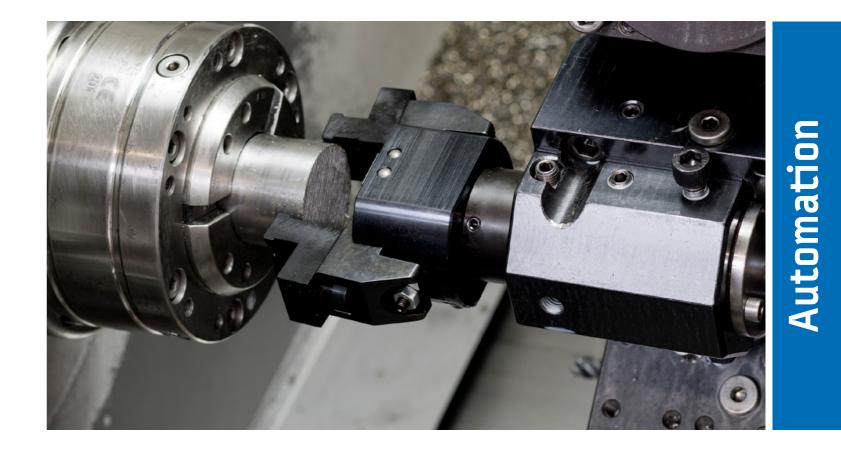




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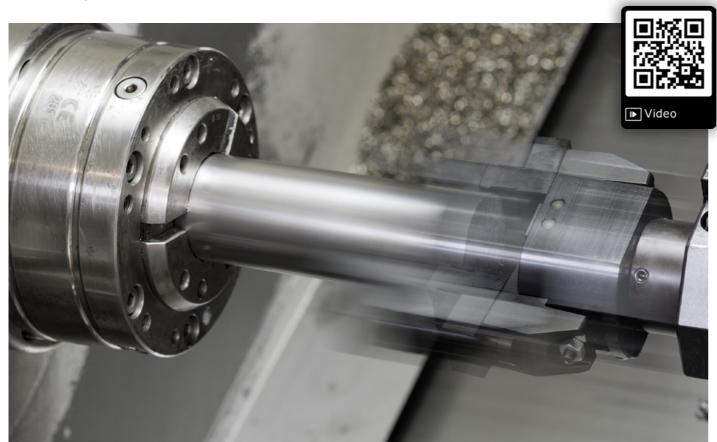






Automate your lathe!

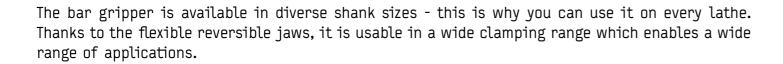
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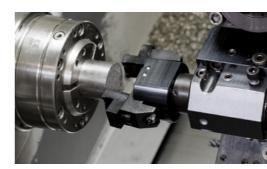


You do not want to stand permanently at the machine and insert material?

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.





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







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.



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Bar grippers

Now move onto the bar and open the chuck.

Pull the bar to the desired position in Z.

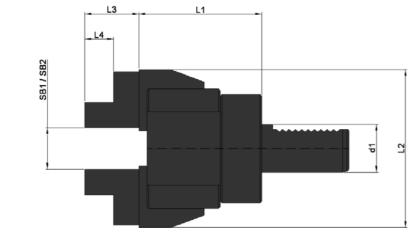


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Bar grippers



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







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Assembly system

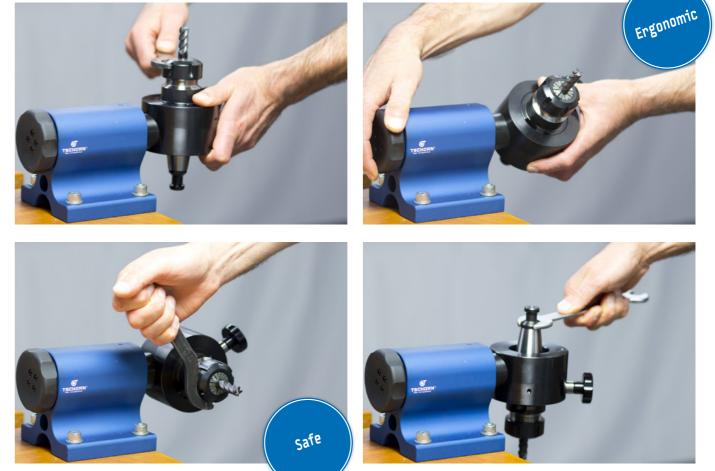
The practical assistant for quick and easy tool changes!



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.





Made in Germany

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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.

Rotatable

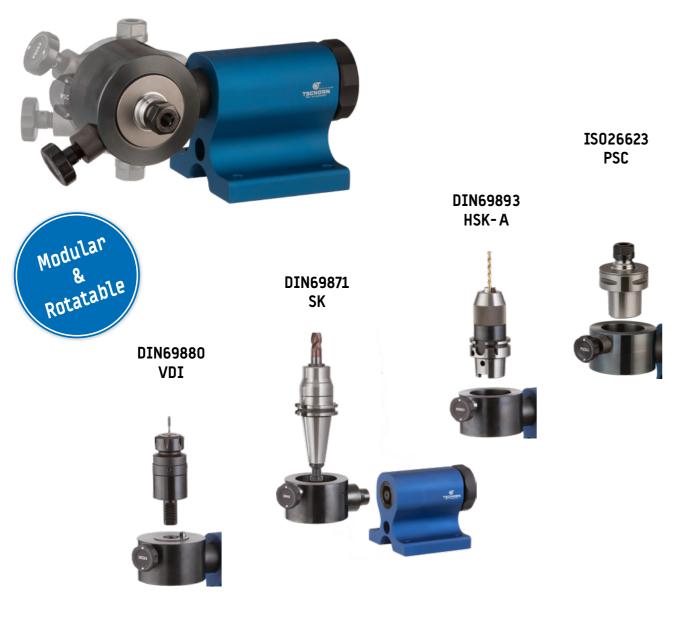








Assembly system



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

Arti	cle No.	Description
0040	00000	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
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
DO4100C32	Adaptor	IS026623	PSC32
004100C40	Adaptor	IS026623	PSC40
004100C50	Adaptor	IS026623	PSC50
004100C63	Adaptor	IS026623	PSC63
004100C80	Adaptor	ISO26623 -81-	PSC80



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Assembly device

TSCHORN[®] bes & Tools Technology



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**.

The assembly device is **stepless rotatable** at 45° to the left and 45° to the right.



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



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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.



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Saw blade holders

Application:

Saw blade holders

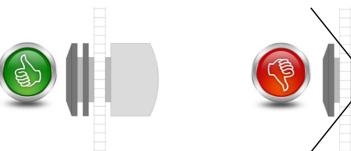
For precise holding of saw blades.

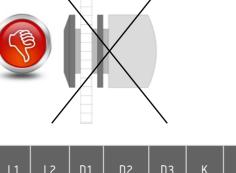
Type:

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



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.







Article No.	Description	L1	L2	D1	D2	D3	K	S	L.	DI
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		D2
0000S1650	Holder for saw blade Ø50	126	78	Ø16	Ø24,5	Ø13	3	1	12	
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	5	
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		D3
0000S2510	Holder for saw blade Ø100	150	92	Ø25	Ø39,5	Ø22	4	1		(D2) Sägeblatt Ø
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You can find suitable saw blades on page 88.

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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
000050020	Saw blade holder set

Spare parts

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
0101S2020	Spare spring washer for saw blade holder
0101S2025	Spare spring washer for saw blade holder
0101\$2032	Spare spring washer for saw blade holder
0101S2O4O	Spare spring washer for saw blade holder
0101S2550	Spare spring washer for saw blade holder
0101S2563	Spare spring washer for saw blade holder
0101\$4080	Spare spring washer for saw blade holder
0101\$4010	Spare spring washer for saw blade holder
0102S2020	Spare screw for saw blade holder
0102S2025	Spare screw for saw blade holder
0102S2O32	Spare screw for saw blade holder
0102S2040	Spare screw for saw blade holder
0102S2550	Spare screw for saw blade holder
0102S2563	Spare screw for saw blade holder
0102\$4080	Spare screw for saw blade holder
0102\$4010	Spare screw for saw blade holder





	Size	2. The second second
	Ø20	
	Ø25	
	Ø32	
	Ø40	
	Ø50	
	Ø63	
	Ø80	
	Ø100	
	Ø20	
	Ø25	
	Ø32	
	Ø40	
	Ø50	
	Ø63	
	Ø80	
	Ø100	Made in Germany
-8	37-	W Germany

Tasttechnologie | Spanntechnologie



rt. No.

Saw blades fine

PASBF020020 Saw blade fine VHM-A 20x0,20x5-Z=80

Spanntechnologie [Probing technology] Tasttechnologie

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Art. No. Saw blades fine

Tasttechnologie [Clamping technology] Spanntechnologie

Saw blades

	PASBF020025	Saw blade fine VHM-	A 20x0,25x5-Z=64	
	PASBF020030	Saw blade fine VHM-		
	PASBF020035	Saw blade fine VHM-		
	PASBF020040	Saw blade fine VHM-		
	PASBF020050	Saw blade fine VHM-		
	PASBF020060	Saw blade fine VHM-		
	PASBF020070	Saw blade fine VHM-		
	PASBF020080	Saw blade fine VHM-		
	PASBF020090	Saw blade fine VHM-		
	PASBF020100	Saw blade fine VHM-		
	PASBF020110	Saw blade fine VHM-		
	PASBF020120	Saw blade fine VHM-		
	PASBF020130	Saw blade fine VHM-		TS
	PASBF020140	Saw blade fine VHM-		
	PASBF020150 PASBF020160	Saw blade fine VHM- Saw blade fine VHM-		
	PASBF020160 PASBF020170	Saw blade fine VHM-		
	PASBF020170 PASBF020180	Saw blade fine VHM-		
	PASBF020180 PASBF020190	Saw blade fine VHM-		v1 0
'	PASBF020200	Saw blade fine VHM-		~1,0
	PASBF020250	Saw blade fine VHM-		
	PASBF020300	Saw blade fine VHM-		
	PASBF020350	Saw blade fine VHM-		
	PASBF020400	Saw blade fine VHM-		
	PASBF020500	Saw blade fine VHM-		
	PASBF020600	Saw blade fine VHM-		
	PASBF025020	Saw blade fine VHM-		
	PASBF025025	Saw blade fine VHM-		
	PASBF025030	Saw blade fine VHM-	A 25x0,30x8-Z=80	
	PASBF025035	Saw blade fine VHM-	A 25x0,35x8-Z=64	
	PASBF025040	Saw blade fine VHM-	A 25x0,40x8-Z=64	
	PASBF025050	Saw blade fine VHM-	A 25x0,50x8-Z=64	
	PASBF025060	Saw blade fine VHM-		
	PASBF025070	Saw blade fine VHM-		110
	PASBF025080	Saw blade fine VHM-		1
	PASBF025090	Saw blade fine VHM-		
	PASBF025100	Saw blade fine VHM-		
	PASBF025110	Saw blade fine VHM-		
	PASBF025120	Saw blade fine VHM-		
	PASBF025130	Saw blade fine VHM- Saw blade fine VHM-		
	PASBF025140 PASBF025150	Saw blade fine VHM-		
	PASBF025160	Saw blade fine VHM- Saw blade fine VHM-		
	PASBF025170	Saw blade fine VHM-		
	PASBF025180	Saw blade fine VHM-		
	PASBF025190	Saw blade fine VHM-		
	PASBF025200	Saw blade fine VHM-		
	PASBF025250	Saw blade fine VHM-		
	PASBF025300	Saw blade fine VHM-		
	PASBF025350	Saw blade fine VHM-	A 25x3,50x8-Z=32	
	PASBF025400	Saw blade fine VHM-	A 25x4,00x8-Z=32	
	PASBF025500	Saw blade fine VHM-	A 25x5,00x8-Z=32	
	PASBF025600	Saw blade fine VHM-	A 25x6,00x8-Z=24	
	PASBF030020	Saw blade fine VHM-	A 30x0,20x8-Z100	
	PASBF030025	Saw blade fine VHM-		
	PASBF030030	Saw blade fine VHM-		
	PASBF030035	Saw blade fine VHM-		
	PASBF030040	Saw blade fine VHM-		
	PASBF030050	Saw blade fine VHM-		
	PASBF030060	Saw blade fine VHM-		
	PASBF030070	Saw blade fine VHM-		
	PASBF030080	Saw blade fine VHM-		
	PASBF030090	Saw blade fine VHM-		
	PASBF030100 PASBF030110	Saw blade fine VHM- Saw blade fine VHM-		
	PASBF030110 PASBF030120	Saw blade fine VHM-		
	PASBF030120 PASBF030130	Saw blade fine VHM-		
	PASBF030130 PASBF030140	Saw blade fine VHM-	A 30x1 40x8-7=48	
l	11301030140		. 30,1, 10,0 2-10	

ĺ	PASBF030150	Saw	h] ada	fine	VHM-A	30x1,50x8-Z=48
	PASBF030160					30x1,60x8-Z=48
	PASBF030170	Saw	blade	fine	VHM-A	30x1,70x8-Z=48
	PASBF030180	Saw	h] ade	fine	VHM-A	30x1,80x8-Z=48
						30x1,90x8-Z=48
	PASBF030190					
	PASBF030200	Saw	blade	fine	VHM-A	30x2,00x8-Z=48
	PASBF030250	Saw	blade	fine	VHM-A	30x2,50x8-Z=40
	PASBF030300					30x3,00x8-Z=40
	PASBF030350	Saw	blade	fine	VHM-A	30x3,50x8-Z=40
	PASBF030400	Saw	blade	fine	VHM-A	30x4,00x8-Z=40
	PASBF030500					30x5,00x8-Z=32
	PASBF030600					30x6,00x8-Z=32
	PASBF040020	Saw	blade	fine	VHM-A	40x0,20x10Z128
	PASBF040025	Saw	hlade	fine	VHM-A	40x0,25x10Z100
						,
	PASBF040030					40x0,30x10Z100
	PASBF040035	Saw	blade	fine	VHM-A	40x0,35x10Z100
	PASBF040040	Saw	blade	fine	VHM-A	40x0,40x10Z100
	PASBF040050					40x0,50x10Z=80
7 4	PASBF040060	Saw	blade	fine	VHM-A	40x0,60x10Z=80
	PASBF040070	Saw	blade	fine	VHM-A	40x0,70x10Z=80
	PASBF040080					40x0,80x10Z=80
						40x0,90x10Z=64
	PASBF040090					,
	PASBF040100					40x1,00x10Z=64
	PASBF040110	Saw	blade	fine	VHM-A	40x1,10x10Z=64
	PASBF040120					40x1,20x10Z=64
10	PASBF040130					40x1,30x10Z=64
14	PASBF040140	Saw	blade	fine	VHM-A	40x1,40x10Z=64
	PASBF040150	Saw	blade	fine	VHM-A	40x1,50x10Z=64
	PASBF040160					40x1,60x10Z=64
- 1	PASBF040170					40x1,70x10Z=48
- 1	PASBF040180	Saw	blade	fine	VHM-A	40x1,80x10Z=48
	PASBF040190					40x1,90x10Z=48
	PASBF040200					40x2,00x10Z=48
	PASBF040250	Saw	blade	fine	VHM-A	40x2,50x10Z=48
	PASBF040300	Saw	blade	fine	VHM-A	40x3,00x10Z=48
	PASBF040350					40x3,50x10Z=48
	PASBF040400					40x4,00x10Z=40
	PASBF040500	Saw	blade	fine	VHM-A	40x5,00x10Z=40
	PASBF040600	Saw	hlade	fine	VHM-A	40x6,00x10Z=40
						50x0,20x13Z128
	PASBF050020					
	PASBF050025	Saw	blade	fine	VHM-A	50x0,25x13Z128
	PASBF050030	Saw	blade	fine	VHM-A	50x0,30x13Z128
	PASBF050035					50x0,35x13Z100
	PASBF050040					50x0,40x13Z100
	PASBF050050					50x0,50x13Z100
	PASBF050060	Saw	blade	fine	VHM-A	50x0,60x13Z100
	PASBF050070		-			50x0,70x13Z=80
	PASBF050080					50x0,80x13Z=80
	PASBF050090	Saw	blade	fine	VHM-A	50x0,90x13Z=80
	PASBF050100					50x1,00x13Z=80
	PASBF050110					50x1,10x13Z=80
	PASBF050120					50x1,20x13Z=80
	PASBF050130					50x1,30x13Z=64
	PASBF050140	Saw	blade	fine	VHM-A	50x1,40x13Z=64
	PASBF050150					50x1,50x13Z=64
P	PASBF050160					50x1,60x13Z=64
	PASBF050170	Saw	blade	fine	VHM-A	50x1,70x13Z=64
	PASBF050180					50x1,80x13Z=64
	PASBF050190					50x1,90x13Z=64
	PASBF050200					50x2,00x13Z=64
	PASBF050250	Saw	blade	fine	VHM-A	50x2,50x13Z=64
	PASBF050300					50x3,00x13Z=48
	PASBF050350	SdW	brade	nne	VНМ-А	50x3,50x13Z=48
	PASBF050400	Saw	blade	fine	VHM-A	50x4,00x13Z=48
	PASBF050500					50x5,00x13Z=48
						50x6,00x13Z=40
	PASBF050600					
	PASBF063030	Saw	blade	fine	VHM-A	63x0,30x16Z128
	PASBF063035	Saw	blade	fine	VHM-A	63x0,35x16Z128
	PASBF063040					63x0,40x16Z128
	17(30) 003040	Jaw	staue	me	A PARTY	0370,407102120

Art. No.	Saw	blade	s fin	9				
PASBF063050				VHM-A				
PASBF063060				VHM-A				
PASBF063070				VHM-A				
PASBF063080				VHM-A VHM-A				
PASBF063090 PASBF063100				VHM-A				11111
PASBF063110				VHM-A				
PASBF063120				VHM-A				
PASBF063130				VHM-A				
PASBF063140				VHM-A				
PASBF063150				VHM-A				
PASBF063160				VHM-A				6
PASBF063170 PASBF063180				VHM-A VHM-A				Y
PASBF063190				VHM-A				TSCHORN
PASBF063200				VHM-A				Probes & Tools Technology
PASBF063250				VHM-A				
PASBF063300				VHM-A				HM
PASBF063350				VHM-A				
PASBF063400				VHM-A VHM-A				1,0x22 Z
PASBF063500 PASBF063600				VHM-A VHM-A				
PASBF080030				VHM-A				
PASBF080035				VHM-A				
PASBF080040				VHM-A				
PASBF080050				VHM-A				
PASBF080060				VHM-A				
PASBF080070 PASBF080080				VHM-A VHM-A				r
PASBF080090				VHM-A				
PASBF080100				VHM-A				
PASBF080110				VHM-A				
PASBF080120				VHM-A				
PASBF080130				VHM-A				h.
PASBF080140 PASBF080150				VHM-A VHM-A				
PASBF080150 PASBF080160				VHM-A				
PASBF080170				VHM-A				
PASBF080180				VHM-A				
PASBF080190				VHM-A				
PASBF080200				VHM-A				
PASBF080250 PASBF080300				VHM-A				
PASBF080350				VHM-A				
PASBF080400								
PASBF080500	Saw	blade	fine	VHM-A	80x5	5,00x2	22Z=64	
PASBF080600								
PASBF100050								
PASBF100060 PASBF100070				VHM-A VHM-A				
PASBF100070 PASBF100080								
PASBF100090				VHM-A				
PASBF100100				VHM-A				
PASBF100110				VHM-A				
PASBF100120				VHM-A				100000
PASBF100130				VHM-A VHM-A				
PASBF100140 PASBF100150				VHM-A VHM-A				
PASBF100150				VHM-A				
PASBF100170				VHM-A				
PASBF100180				VHM-A				
PASBF100190				VHM-A				
PASBF100200				VHM-A				
PASBF100250 PASBF100300				VHM-A			22Z100 22Z=80	
PASBF100300 PASBF100350							22Z=80	
PASBF100400	Saw	blade	fine	VHM-A	100x	4,00x2	22Z=80	
PASBF100500	Saw	blade	fine	VHM-A	100x	5,00x	22Z=80	
PASBF100600	Saw	blade	fine	VHM-A	100x	6,00x	22Z=64	

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Art. No.	Saw	blade	s rougl	า	
PASBG020020	Saw	blade	rough	VHM-B	20x0,20x5-Z=20
PASBG020025	Saw	blade	rough	VHM-B	20x0,25x5-Z=20
PASBG020030	Saw	blade	rough	VHM-B	20x0,30x5-Z=20
PASBG020040					20x0,40x5-Z=20
PASBG020050					20x0,50x5-Z=20
PASBG020060					20x0,60x5-Z=20
PASBG020070					20x0,70x5-Z=20
PASBG020080	Saw	blade	rough	VHM-B	20x0,80x5-Z=20
PASBG020090 PASBG020100					20x0,90x5-Z=20 20x1,00x5-Z=20
PASBG020100					20x1,20x5-Z=20
PASBG020150					20x1,50x5-Z=20
PASBG020160					20x1,60x5-Z=20
PASBG020180					20x1,80x5-Z=20
PASBG020200	Saw	blade	rough	VHM-B	20x2,00x5-Z=20
PASBG020250					20x2,50x5-Z=20
PASBG020300					20x3,00x5-Z=20
PASBG020400					20x4,00x5-Z=20
PASBG020500					20x5,00x5-Z=20
PASBG020600					20x6,00x5-Z=20
PASBG025020 PASBG025025					25x0,20x8-Z=20 25x0,25x8-Z=20
PASBG025025					25x0,30x8-Z=20
PASBG025040					25x0,40x8-Z=20
PASBG025050					25x0,50x8-Z=20
PASBG025060					25x0,60x8-Z=20
PASBG025070					25x0,70x8-Z=20
PASBG025080					25x0,80x8-Z=20
PASBG025090					25x0,90x8-Z=20
PASBG025100					25x1,00x8-Z=20
PASBG025120					25x1,20x8-Z=20
PASBG025150					25x1,50x8-Z=20
PASBG025160 PASBG025180					25x1,60x8-Z=20 25x1,80x8-Z=20
PASBG025180					25x2,00x8-Z=20
PASBG025250					25x2,50x8-Z=20
PASBG025300					25x3,00x8-Z=20
PASBG025400					25x4,00x8-Z=20
PASBG025500					25x5,00x8-Z=20
PASBG025600					25x6,00x8-Z=20
PASBG030020					30x0,20x8-Z=30
PASBG030025					30x0,25x8-Z=30
PASBG030030 PASBG030040					30x0,30x8-Z=30 30x0,40x8-Z=30
PASBG030040 PASBG030050	Saw	blade	rough	VHM-R	30x0,50x8-Z=30
PASBG030060					30x0,60x8-Z=30
PASBG030070					30x0,70x8-Z=30
PASBG030080					30x0,80x8-Z=24
PASBG030090	Saw	blade	rough	VHM-B	30x0,90x8-Z=24
PASBG030100					30x1,00x8-Z=24
PASBG030120					30x1,20x8-Z=24
PASBG030150					30x1,50x8-Z=24
PASBG030160					30x1,60x8-Z=24
PASBG030180 PASBG030200					30x1,80x8-Z=24 30x2,00x8-Z=24
PASBG030250					30x2,50x8-Z=24
PASBG030300					30x3,00x8-Z=24
PASBG030400	Saw	blade	rough	VHM-B	30x4,00x8-Z=24
PASBG030500					30x5,00x8-Z=24
PASBG030600	Saw	blade	rough	VHM-B	30x6,00x8-Z=24
PASBG040020					40x0,20x10-Z40
PASBG040025					40x0,25x10-Z40
PASBG040030					40x0,30x10-Z40
PASBG040040					40x0,40x10-Z40
PASBG040050 PASBG040060					40x0,50x10-Z40 40x0,60x10-Z40
PASBG040060 PASBG040070					40x0,80x10-Z40 40x0,70x10-Z40
PASBG040070					40x0,80x10-Z32
PASBG040090					40x0,90x10-Z32

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Tasttechnologie [Clamping technology] Spanntechnologie

Art. No.	Saw	blades roug	1			ŀ
PASBG040100		blade rough				F
PASBG040120 PASBG040150		blade rough blade rough				F
PASBG040160	Saw	blade rough	VHM-B 40>	x1,60x10-Z32		F
PASBG040180 PASBG040200		blade rough blade rough				F
PASBG040200 PASBG040250		blade rough				ľ
PASBG040300		blade rough				
PASBG040400 PASBG040500		blade rough blade rough				
PASBG040500		blade rough				
PASBG050040		blade rough			6T	
PASBG050050 PASBG050060		blade rough blade rough				
PASBG050070	Saw	blade rough	VHM-B 50	x0,70x13-Z40	TSCHORN® Probes & Tools Technology	
PASBG050080 PASBG050090		blade rough				
PASBG050090 PASBG050100		blade rough blade rough			HM	
PASBG050120		blade rough			1 000 7 4	
PASBG050150 PASBG050160		blade rough blade rough			I,UXZZ Z-	
PASBG050180		blade rough				
PASBG050200		blade rough				
PASBG050250 PASBG050300		blade rough blade rough				
PASBG050400		blade rough				
PASBG050500 PASBG050600		blade rough				
PASBG063040		blade rough blade rough				
PASBG063050	Saw	blade rough	VHM-B 63>	x0,50x16-Z64		
PASBG063060 PASBG063070		blade rough blade rough				
PASBG063080		blade rough				
PASBG063090		blade rough				
PASBG063100 PASBG063120		blade rough blade rough				
PASBG063150		blade rough				
PASBG063160		blade rough				
PASBG063180 PASBG063200		blade rough blade rough				
PASBG063250		blade rough				
PASBG063300 PASBG063400		blade rough blade rough				
PASBG063500	Saw	blade rough	VHM-B 63>	x5,00x16-Z24		
PASBG063600		blade rough				
PASBG080060 PASBG080070		blade rough blade rough				
PASBG080080	Saw	blade rough	VHM-B 80	x0,80x22-Z64		
PASBG080090 PASBG080100		blade rough		x0,90x22-Z48 x1,00x22-Z48		
PASBG080100		blade rough				
PASBG080150		0		x1,50x22-Z48		
PASBG080160 PASBG080180		blade rough		x1,60x22-Z48 x1,80x22-Z40		
PASBG080200	Saw	blade rough	VHM-B 80	x2,00x22-Z40		
PASBG080250		0		x2,50x22-Z40		
PASBG080300 PASBG080400		blade rough		x3,00x22-Z40 x4,00x22-Z32		
PASBG080500	Saw	blade rough	VHM-B 80	x5,00x22-Z32		
PASBG080600 PASBG100060		blade rough		x6,00x22-Z32 x0,60x22Z=80		
PASBG100070	Saw	0		x0,70x22Z=80		
PASBG100080				x0,80x22Z=64		
PASBG100090 PASBG100100		0		x0,90x22Z=64 x1,00x22Z=64		
PASBG100120	Saw	blade rough	VHM-B100	x1,20x22Z=64		
PASBG100150 PASBG100160		0		x1,50x22Z=48 x1,60x22Z=48		
PASBG100180 PASBG100180				x1,80x22Z=48 x1,80x22Z=48		
					ı	4



Made in Germany

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Tasttechnologie Spanntechnologie



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



Die holders/MINIflex

Impossible to produce external threads guicker!



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 **perman**ently surrounded by coolant. This leads to high-quality threads and as the coolant flushes away all chips.













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

Base holders







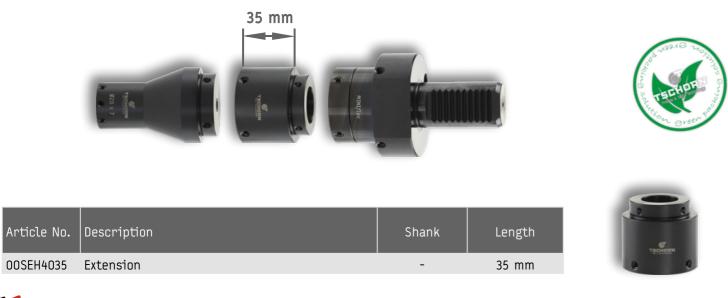
DIN69880 VDI

DIN69871 SK40

Länge

				_
Article No.	Description	Shank	Length	
00SFL0Z20	Base holder MINIflex	Ø20	55 mm	
00SFL0Z25	Base holder MINIflex	Ø25	55 mm	
00SFL0V20	Base holder MINIflex DIN69880	VDI20	55 mm	
00SFL0V30	Base holder MINIflex DIN69880	VDI30	55 mm	
00SFL0V40	Base holder MINIflex DIN69880	VDI40	55 mm	
00SFL0S40	Base holder MINIflex DIN69871	SK40	58 mm	
00SFL0H63	Base holder MINIflex DIN69893	HSK63	71 mm	

Extension



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Länge

DIN69893

HSK63

Exchange modules



Article No.	Description	D
00SEH1605	Exchange module	16
00SEH2005	Exchange module	20
00SEH2007	Exchange module	20
00SEH2509	Exchange module	25
00SEH3011	Exchange module	30
00SEH3814	Exchange module	38
00SEH4518	Exchange module	45
ER modules:	:	
00SEHER25	Exchange module ER25	Ø2 - Ø16
00SEHER32	Exchange module ER32	Ø2 - Ø20

High performance dies

High performance dies DIN EN 22568 Metric ISO thread DIN13



Article No.	Description	d	P mm	ØDxEmm	n
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
PSE001M2000	Die HSSE 6g	M20	2,5	45x18	5



Die holders/MINIflex



 $D = \emptyset$ 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.

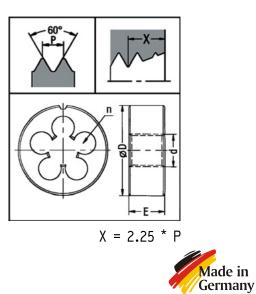
L1	L2	L3	Thread
75	74	5	M1-M2,5
75	74	5	M3-M4
75	74	7	M5-M6
75	74	9	M7-M9
75	74	11	M10
75	74	14	M12-M14
85	84	18	M16-M20
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Crashed?

All our devices can be repaired.

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











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							



Art.-Nr. 0017C2098

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	Clan
PAP540362	Centering vise Snapper	170	5 m
PAP540446	Centering vise Snapper (+10 mm)	170	5 m
PAP540401	Centering vise Snapper	300	5 m
PAP540447	Centering vise Snapper (+10 mm)	300	5 m

Advantages:

Gepard: the quickest!

The centering vise for finishing

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

INHACLAMP'

Artikel-Nr.	Description	Size	С
PAP540444	Centering vise Gepard	170	0
PAP540400	Centering vise Gepard	300	0
PAP551018	Set top jaws ALUMINIUM M 50x98x41 mm	170	0
PAP551020	Set top jaws ALUMINIUM M 50x131x51 mm	300	0
PAP551033	Set top jaws STEEL M 50x98x41 mm	170	0
PAP551046	Set top jaws STEEL M 50x131x51 mm	300	0
PAP551009	Set top jaws Snapper short 50x98x22 mm	170	1
PAP551007	Set top jaws Snapper short 50x131x22 mm	300	7



Collet chucks system ER according to DIN6499 B

Advantages:

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

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
PAJOE20XXX	Collet chuck DIN6499 B	ER20	no	Ø2,0 - Ø13,0
PAJOE25XXX	Collet chuck DIN6499 B	ER25	no	Ø2,0 - Ø16,0
PAJOE32XXX	Collet chuck DIN6499 B	ER32	no	Ø2,0 - Ø20,0
PAJOE40XXX	Collet chuck DIN6499 B	ER40	no	Ø3,0 - Ø26,0





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Information:

XXX= clamping Ø

e.g.: Ø1,0 = 010



oing range

nm - 118 mm m - 118 mm m - 238 mm 1m - 238 mm



Please note:

A wide selection of different jaws is available!

l	.amp	ir	ig ra	inge	
I	mm	-	160	mm	
I	mm	-	250	mm	
I	mm	-	160	mm	
I	mm	-	250	mm	
I	mm	-	160	mm	
I	mm	-	250	mm	
7	mm	-	71	mm	
	mm	-	154	mm	





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