



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

#### How to work with the 3D Tester Digital:

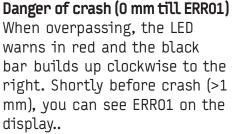
adjust you workpiece or vice to the machine axis.

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

easily determine workpiece zero points and lenghts in all axial directions (X/Y/Z) and you can

Rough scale (1.5 till 0,25 mm)







**3D Digital** 



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 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.







**Revolutionary:** Digital & Analogue on one display!



You can find spare parts on page 26.





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 Especially on big machines easier to read but nevertheless slim built

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**3D Tester** 



**3D Tester** 



#### 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.

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
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

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

You can find spare parts on page 26.







## 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





## SAVEplus

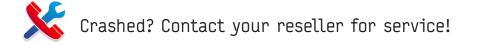
The 3D Tester SAVEplus is also characterized by its slim design - however, it is the cost-effective variant among our 3D Tester models.



#### **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







### 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	
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	-	-	

#### 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.









**3D Tester** 

## Videos for training







#### Crashed?

All our 3D-Testers can be repaired.

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









### The plus for your lathe!

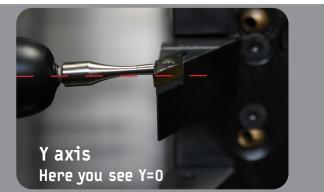
Tool measurement in all axes also in the rotating center (Y)

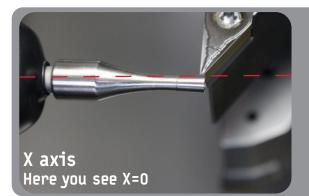
### Innovative probing technology

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.

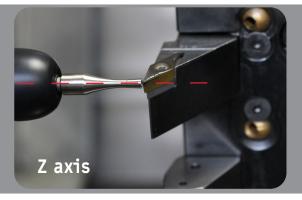
Y=O corresponds to the rotating centre. As a result, you ensure the best possible processing, achieve long lifetime and preserve best surfaces.





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

Also in Z, you can measure all tools, taking into account the length offset in your machine.

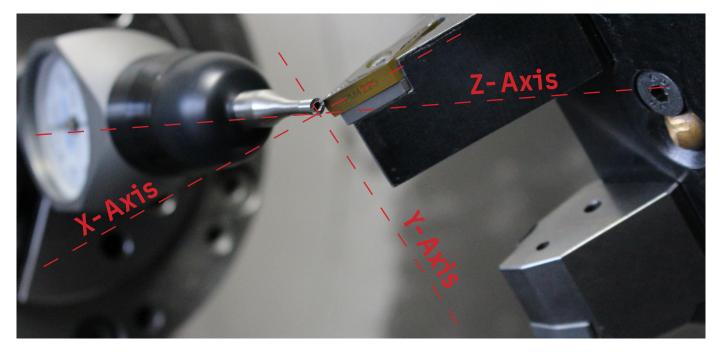






DREHplus

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	
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