



# TSCHORN®

Probes & Tools Technology



3D Testers

Revolutionary: Digital & Analogue on one display!

Analogue display  
Rough scale

Analogue display  
Fine scale 0,01 mm  
from -0,250

Digitale Anzeige  
Auflösung 0,005 mm

Probing status LED

- Off = Rough scale
- Green = Fine scale
- Red = Warning range



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 lengths 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.



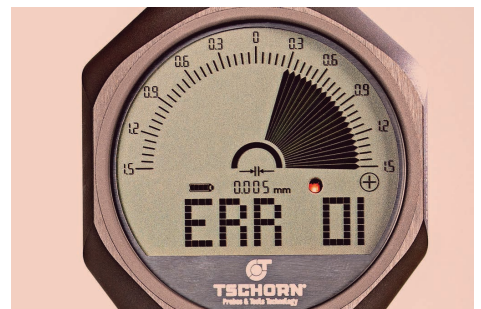
**Fine scale (0,25 till 0 mm)**  
At -0,250 mm, the display changes to the fine scale and the green LED lights up.



**Zero point (precisely reached)**  
When the „0“ 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..



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  $\varnothing 3$ . 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!



Delivery starts in January 2023

Article no.	Description	Shank	Ball
001D30012	3D Digital	Ø12	Ø3
001D32450	Spare battery CR2450		



You can find spare parts on page 26.

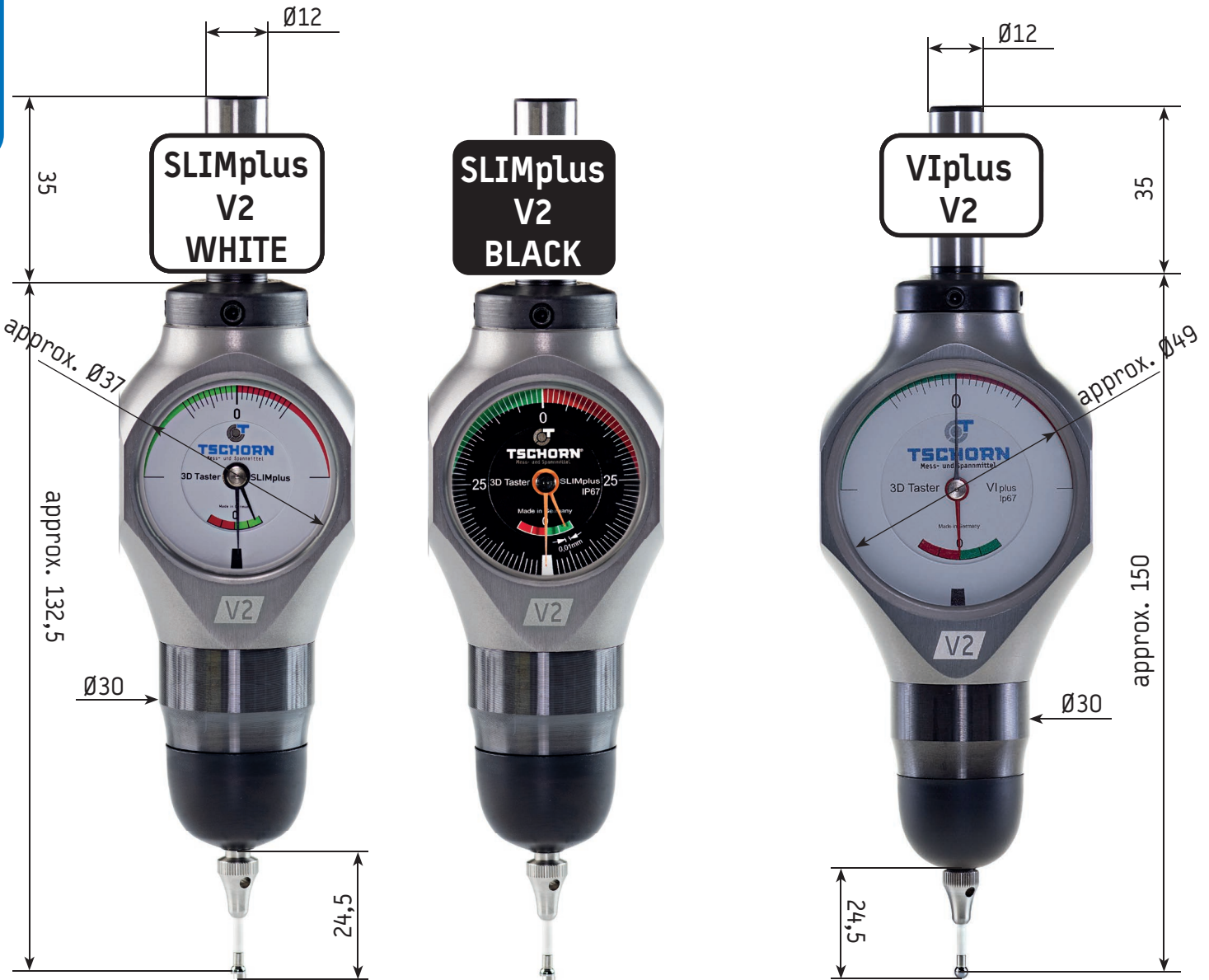
Slim. robust. waterproof. With Tschorn 3D Testers you quickly and easily determine workpiece zero points and length measurements or adjust your workpiece or vice parallel to your machine axis.

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).

3D Tester

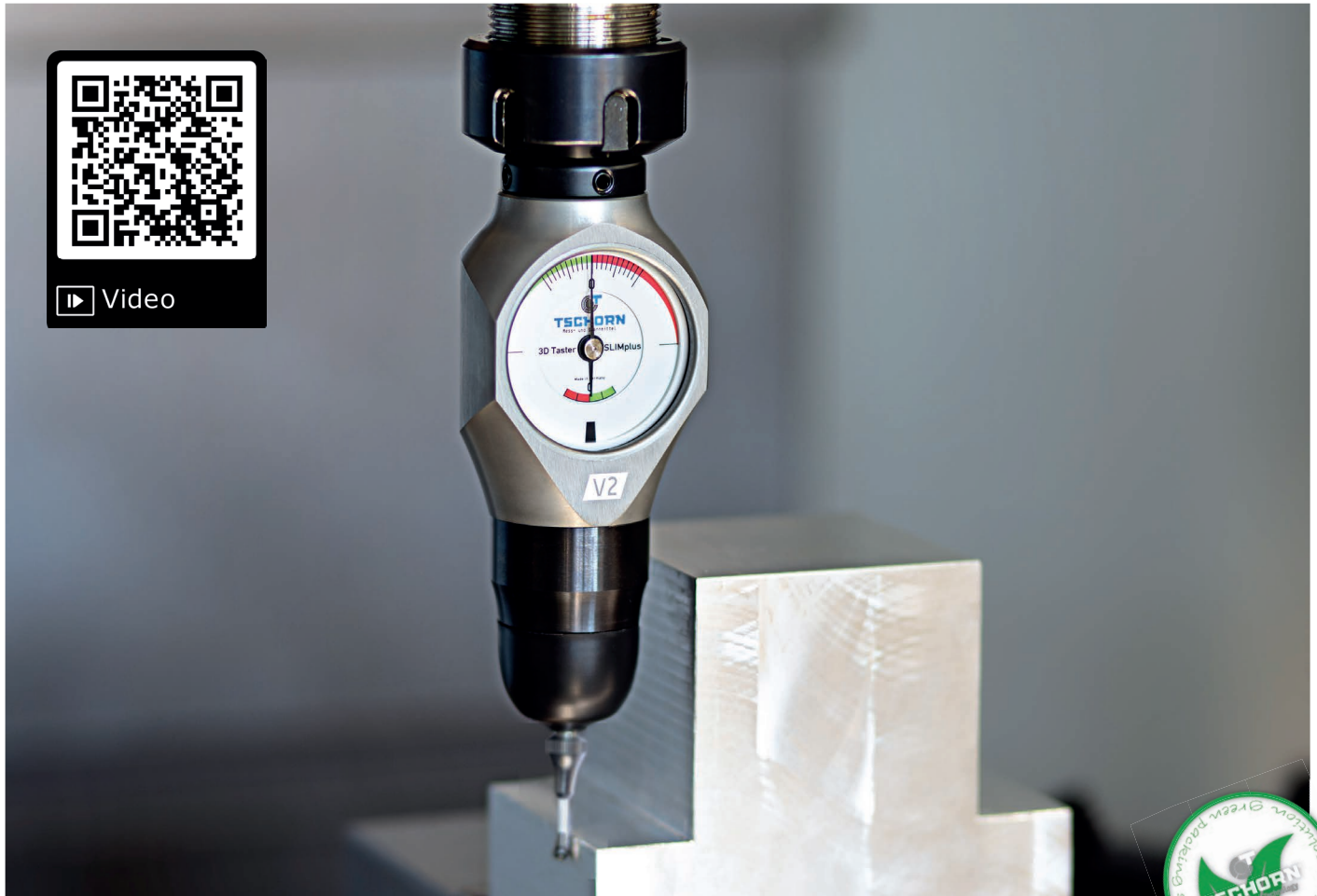


The universal device,  
the bestseller

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

Especially on big machines ea-  
sier to read but nevertheless  
slim built






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 „0“, 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

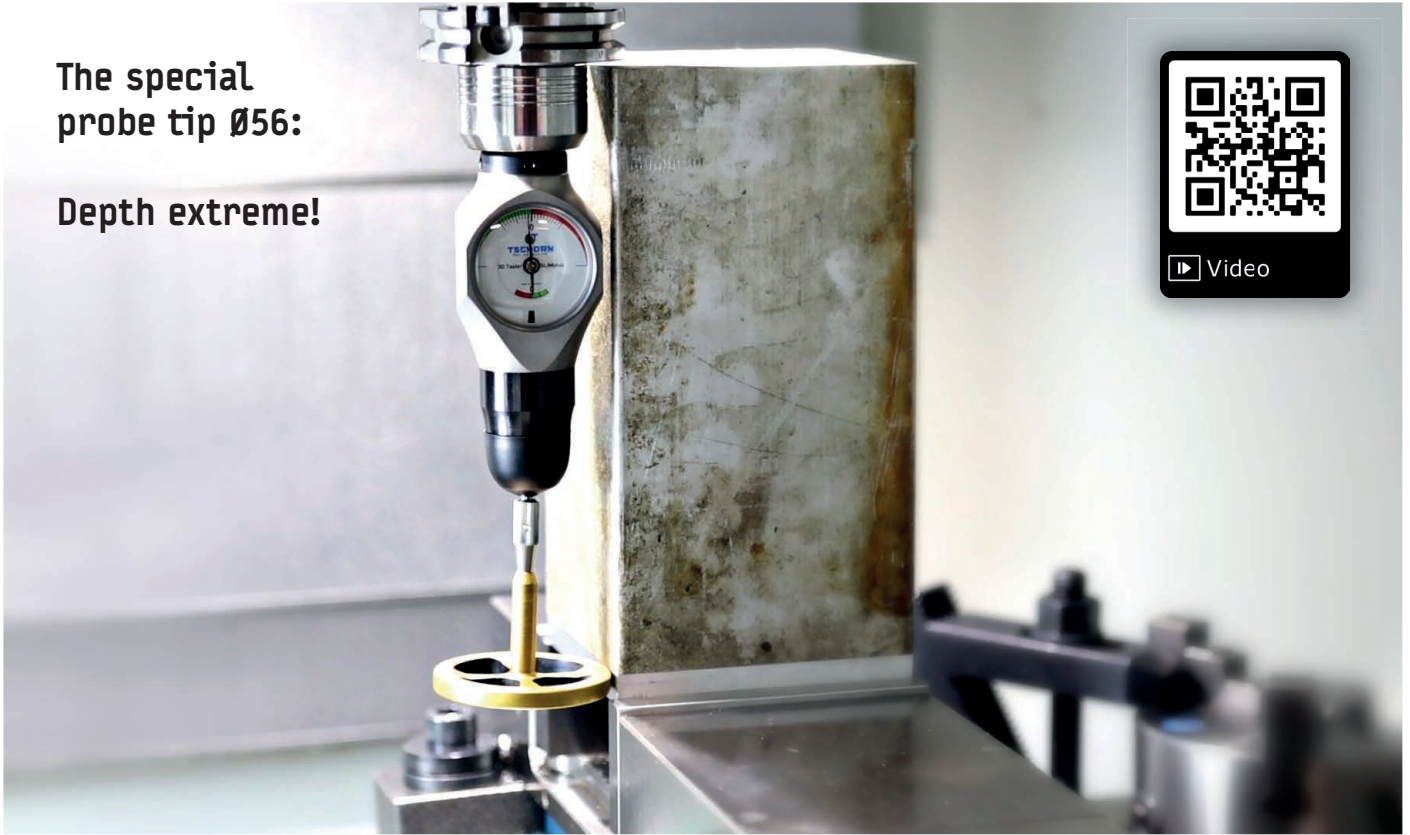
Article No.	Description	Shank	Length	Tester
001V2D012*	3D Tester SLIMplus V2 WHITE	Ø12	approx. 132,5 mm	Ø3
001V2DB12*	3D Tester SLIMplus V2 BLACK	Ø12	approx. 132,5 mm	Ø3
001V2DA40	3D Tester SLIMplus V2 WHITE with shank DIN69871 A40	DIN69871 A40	approx. 132,5 mm	Ø3
001V2V012	3D Tester VIplus V2	Ø12	approx.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

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

You can find spare parts on page 26.

The special probe tip Ø56:

Depth extreme!



**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

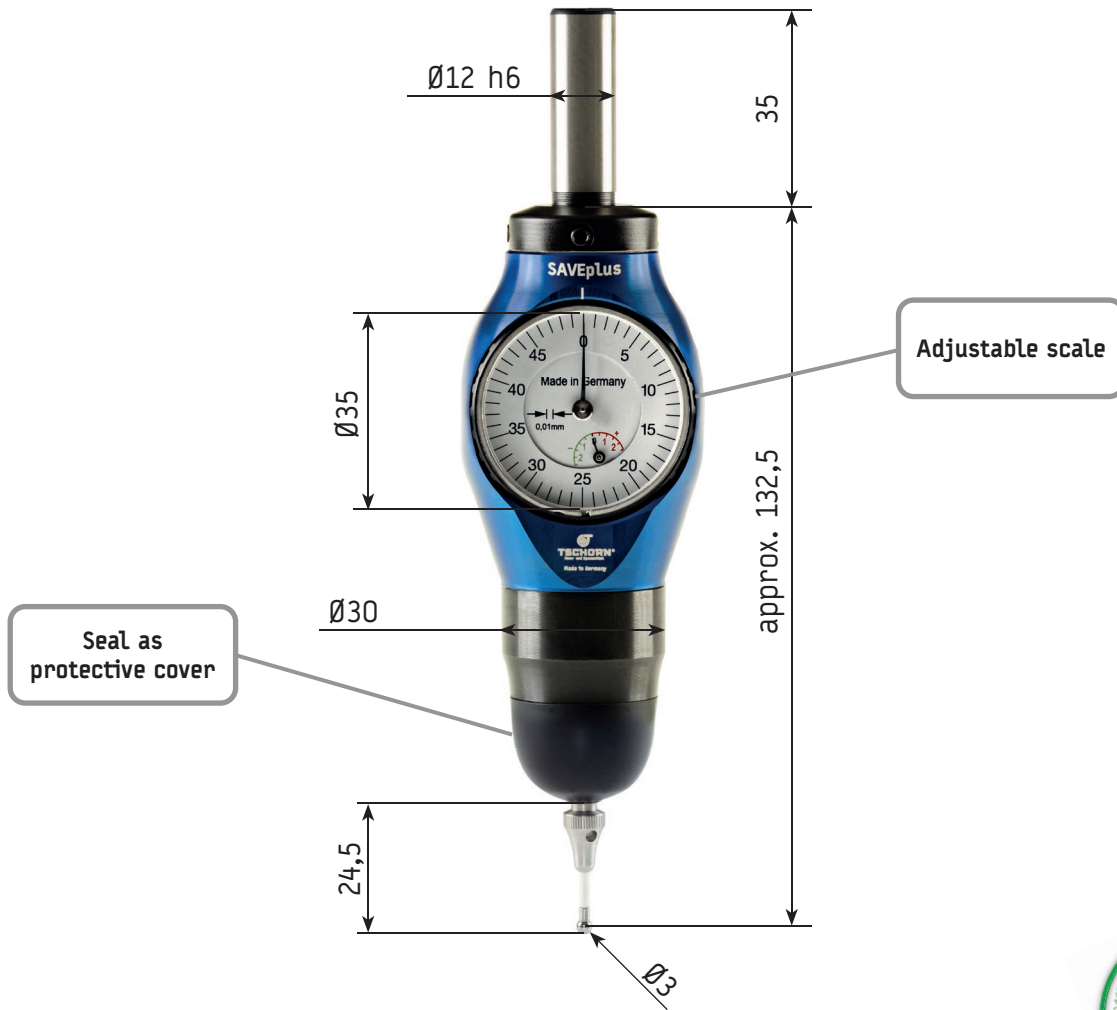




### SAVEplus

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

3D Tester



**Delivery contains:**

3D Tester incl. probe tip ceramic Ø3

Article No.	Description	Shank	Length	Tester
00163B012	3D Tester SAVEplus	Ø12	approx. 134 mm	Ø3



Crashed? Contact your reseller for service!



## Spare parts

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

3D Tester



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
00163C003	Probe tip ceramic	approx. 27 mm	Ø3
00163C006	Probe tip long ceramic	approx. 62 mm	Ø6
00163D099	Seal for 3D Tester	-	-



### Important Note:

When changing the probe tip, make sure not to damage 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.

