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Online-Seminars 2024



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Dear readers,

In this newsletter, we would like to inform you about our online seminars in the first half of 2024, which we are offering in German and English. And we inform you about the discontinuation of the highly successful CETATEST x15 test device series. The successor, the **CETATEST x25 series**, is an innovative test device series and fully interface-compatible with the CETATEST x15 series.

Enjoy reading - Best regards,
Günter Groß, Managing Director



Jäger/CETA Testsysteme GmbH

Content

- Fourth generation CETA leak testers replace predecessor series
- CETA Digital:
CETA online seminars in 1st half of 2024
- CETA has been participating in Folding@home for more than 3.5 years
- CETA practical tip:
Design of the test hood for leak testing of encapsulated products

Fourth generation CETA leak testers replace predecessor series - Gradual discontinuation of the CETATEST x15 test device series

With the fourth generation of leak testers, CETA has successfully launched the successor to the long-established CETATEST x15 test device series.

Following the successful market launch of the CETATEST 825 differential pressure tester (as the successor to the CETATEST 815) in 2022, the CETATEST 725 and CETATEST 525 followed in 2023.

After the successful market launch of the CETATEST x25 leak test device series, the corresponding leak tester variants of the predecessor series are now being discontinued.

Standard variants of the CETATEST 515, CETATEST 715 and CETATEST 815 series can still be ordered **until March 15, 2024**. The further gradual replacement of the CETA flow tester series is scheduled for 2024.

Maintenance, repair and spare parts supply for the CETATEST x15 series are of course guaranteed for the long term.

The **CETATEST x25 leak testers** are substantially more powerful and more attractively priced than their predecessors. Functions such as pre-filling / smooth filling /

pulsing and an Ethernet interface are integrated as standard. These functions were still associated with additional costs in the predecessor. It is also characterized by a 7" touch display, a significantly higher resolution AD converter, ease of use and a user-friendly graphical user interface. The industrial communication interfaces are fully downwards compatible with those of the CETATEST x15 series.

As with the test devices in the CETATEST x15 series, the CETATEST x25 series is supplied with a DAkkS-accredited calibration (compliant with DIN EN ISO/IEC 17025) and a 3-year warranty with regular maintenance at no extra charge. This can optionally be extended to 5 years.

Product information and current information on product availability are published on the CETA homepage (www.cetatest.com).



Jäger/CETA Testsysteme GmbH

CETA Digital: CETA online seminars in 1st half of 2024

In the first half of 2024, we will again be offering free online seminars on various topics relating to leak and flow testing as part of the "CETA Digital - From practice for practice" program.

These seminars will be offered on the day of the event at **10 a. m. in English** and at **3 p. m. in German**.

21.03.2024	CETA leak tester series
11.04.2024	CETA flow tester series
16.05.2024	Leak testing of encapsulated test parts
23.05.2024	Solutions for the packaging industry
20.06.2024	IP protection types, type and routine tests

The detailed seminar contents can be found on our homepage www.cetatest.com



If you are interested, please register **from mid-February 2024** at www.cetatest.com | +49 2103 2471-75 | sales@cetatest.com



CETA has been participating in Folding@home for more than 3.5 years

CETA has been participating in Folding@home since April 2020 (Team ID 256979, "CETA_Testsysteme_GERMANY").

In this computing project, distributed computing power is used for molecular biology calculations. For example, to elucidate how the coronavirus works and how to combat it. Points are awarded per work unit, depending on computer

performance, resources provided and processing time. It can take between 2 and 36 hours to complete a work unit. Between 500 and 100,000 points are awarded for this.

CETA has achieved more than 180 million points and processed more than **12,000 work units**. This puts the CETA team in the TOP 3700 out of a total of more than 250,000 teams.



CETA practical tip: Design of the test hood for leak testing of encapsulated products

Encapsulated products (e.g. car keys, microswitches, sensors) cannot be filled with compressed air. During the leak test, these are placed in a test hood. The test hood is pressurised and the pressure loss caused by a leakage into the interior of the test part is measured. To optimise the measurement signal and the detection

of gross leaks, it is necessary to design the test hood close to the contour. In practice, it has proven successful if the air gap between a nominally tolerated product ($T_{x,y,z} = 0$ mm) and the test hood is at least three times larger than the maximum tolerance, i.e. $\text{Air Gap AG} > 3 \cdot \text{Max}(|T_x|, |T_y|, |T_z|)$.

Example

Sensor

External dimensions:	2 cm x 4 cm x 1.5 cm
Tolerances $T_{x,y,z}$:	± 0.15 mm (fine tolerance according to ISO 2768-1)
Displacement volume:	12.000 cm ³ ($T_{x,y,z} = 0$ mm)
	12.257 cm ³ ($T_{x,y,z} = +0.15$ mm)
	11.747 cm ³ ($T_{x,y,z} = -0.15$ mm)
Volume tolerance breathing:	0.51 cm ³

Hood design

Air gap:	+0.5 mm around product with $T_{x,y,z} = 0$ mm
Empty hood volume:	13.776 cm ³
Residual hood volume:	1.776 cm ³ (with product [$T_{x,y,z} = 0$] in the hood)

Important note: Gross leaks can only be detected if the internal volume of the product (which is filled in the case of a gross leak) is larger than the "volume tolerance breathing".



Example of an encapsulated sensor
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