



NEXT.assembly

x-LinCheck-2D

Mobile laser test device

The regular inspection of measuring equipment is essential. This also applies to measuring technology in the end of line area.

The mobile laser tester x-LinCheck-2D is used to check digital or analog x-contour sensors for linearity. During the linearity test, a reference contour piece moves in the measuring range of the sensor over a predetermined path and corresponding reference values are measured at defined holding positions. This process allows the linearity of each individual sensor in the entire measuring volume to be checked and evaluated.

The experience of Dürr Assembly Products leads to the recommendation to carry out the sensor inspection annually. This reduces the number of NIO lasers per inspection to a minimum and achieves positive effects.

CUSTOMER BENEFITS



Reduction of production downtimes due to measurement at the plant

Quality improvement through the continuous use of this service

Reliable quality statement due to calibrated measuring equipment

Direct results on site

No disassembly of the laser sensors required

x-LinCheck-2D

Mobile laser test device

PROTOCOL x-LinCheck-2D

To prove the test or to document the results, a corresponding result protocol is automatically generated.



Messprotokoll / Measurement protocol

Angaben zum Bauteil / Data to the construction unit			
Produkt / Product Perceptron DTC3			
Serien-Nr. / Serial No. 110369		Auftrag-Nr. / Order No. 8122-01	
Kunde / Customer Daimler		Standort / Location Bremen	
Linie / Line Halle 9 / Linie 104		Laserposition / Laser Position Höhe HL	

Angaben zum Test / Data to the test			
Prüfmittel / Testing machine Mobile Lasermesseinrichtung / Leistungsmesser			
Testort / Test Location Bremen / Halle 3		Datum / Date 28.10.2017	
Linearitätstest / Linearity Check [mm] Toleranz / Tolerance +/- 0,2		Laserleistung / Power of Laser [mW] Toleranz / Tolerance 0,8 - 1	
Messwerte / Measure values			
Min	-0,11	OK	
Max	0,09		OK

Weitere Hinweise / Additional details references		
Dieses Protokoll beschreibt den Zustand des Produktes zum Zeitpunkt der Prüfung. This protocol specifies the condition of the product at the time of the inspection.		
Datum / Date 30.08.2021	Prüfer / Tested by Frank Schaller	Unterschrift / Signature

SF_000001
Version: 1.0
Dürr Assembly Products GmbH

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TESTS



[Linearity check](#)

[Laser power](#)

[Contrast of optics \(I0/N10\)](#)

[Creation of result protocol](#)

- By using the device, each individual sensor or the complete measuring system is checked and possible errors are detected.
- This reduces the risk of incorrect measurements and avoids cost-intensive rework as a precaution.
- Possible "incorrect settings" due to incorrectly measuring sensors, which can lead, for example, to tilted steering wheels, are prevented.

CONCLUSION

Cost-intensive reworking and downtimes in production are avoided.