

# C260

Connector  
Measurement





The production of connectors is subject to strict demands regarding their geometry especially the pins. Therefore, it is necessary to check the connectors from both sides 100% inline. The system imess C260 works with the Keyence Laser Profile Sensor V7060 reproducibly and sufficiently for the measurement system analysis.

## Characteristics

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Swash circumference (top of pin)

Flatness of pins

Pin length

further characteristics on demand

The measurement module C260 consists of the Keyence laser profile sensor and the imess software both integrated inline. The connector is scanned with speed up to 400 mm per second. The collected data is evaluated both numerically and graphically regarding the characteristics. The operator sees the tolerance exceedances easily with significant OK/NOK depiction.

### Accuracy

The imess C260 works with a capability index  $cg > 1,33$  sufficiently for measurement analysis with swash circumference for pins of  $\geq 0,3$  mm and pin length tolerance of  $\pm 0,1$  mm. Therefore, the system accuracy is 0,03 mm for the swash circumference measurement and  $\pm 0,01$  mm for the pin length.

### Data sheet Keyence laser profile sensor LJ-V7060

Reference gap	60 mm
Weight	450 gr
Laser class	2M
Measurement area z-axis (height)	$\pm 8$ mm
Measurement area x axis (width)	
Minimum distance	13,5 mm
Reference gap	15 mm
Maximum distance	15 mm



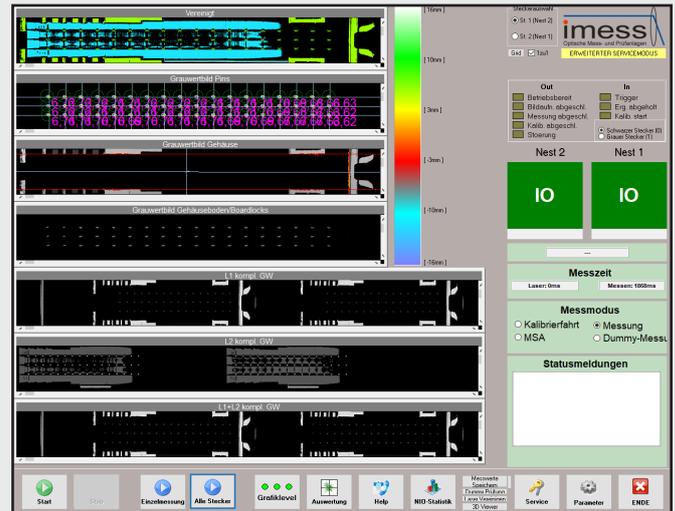
Keyence LJ-V7060

*sufficient for MSA*

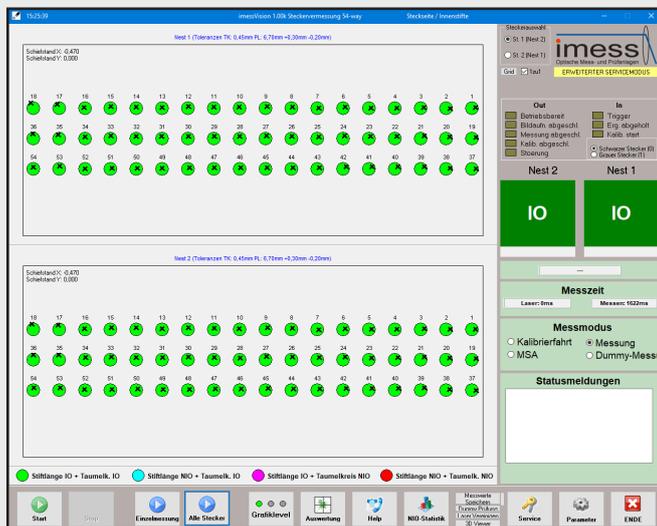
The imess C260 is the sufficient measurement system for the certified process operation with an accuracy of factor 10 better than the product tolerance itself. The certified calibration item serves as proof.

*traceable*

All measurement values can be stored within the system and can be assigned to each single connector to prove the quality easily. The results are documented continuously and saved in an Excel compatible format.



Software surface (expert view)



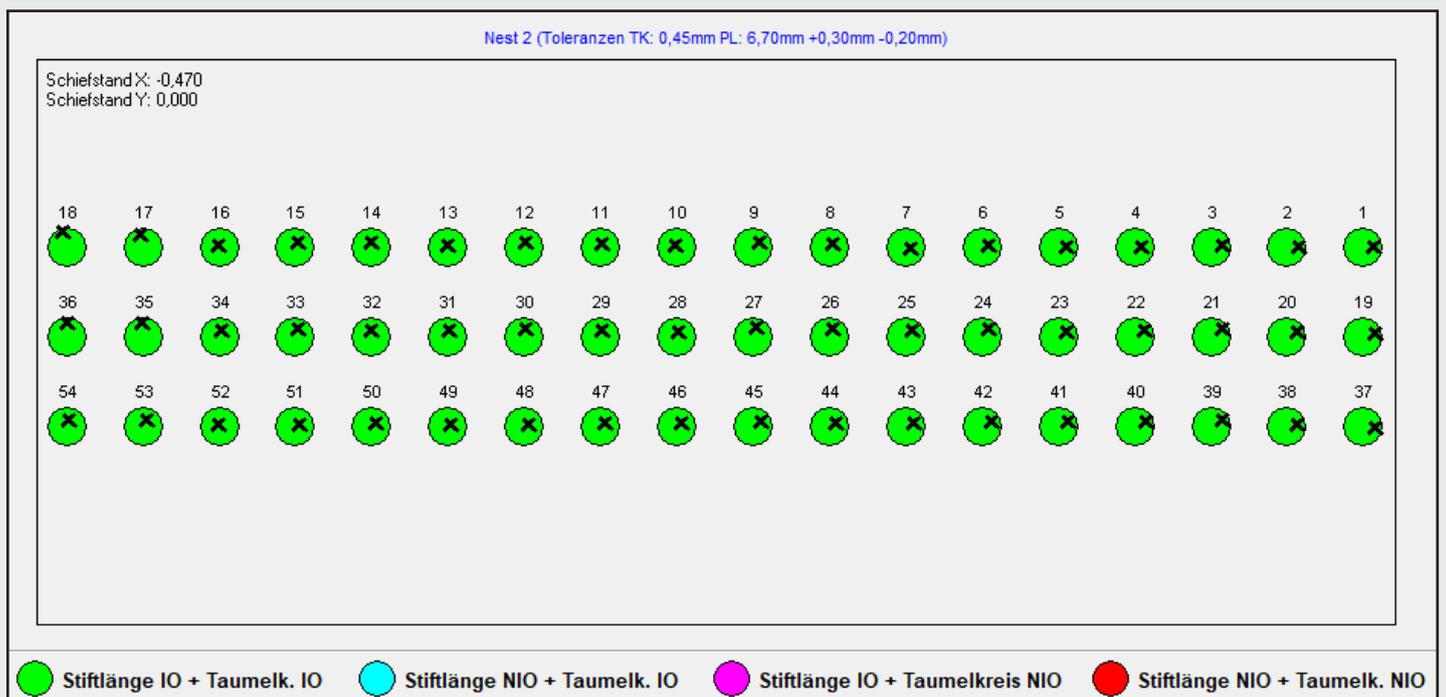
Software surface (operator view)

*operator independent*

The optical measurement of the connector offers several advantages. A substantial argument is the operator independence. The measurement of the connectors is done objectively inline 100%. The risk of subjective impression is eliminated.

*interface compatible*

The imess measurement module is connected to the customer PLC by selectable interfaces. Moreover, the measurement values can be handed over to any CAQ system (SAP, databases or similar).



Detail shot for evaluation with easily usable surface



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