



advintec[®] TCP advintec[®] TCP XS

Calculation & calibration
of robotic tools and fixtures
in up to 6 dimensions



**advintec[®]
Controller Facelift**

- > Modern look & feel
- > Illustration of more than 3 corrected values
- > Direct display of field bus status



ADVANTAGES

- Automatic absolute calculation of robotic tools and fixtures
- Ease of commissioning and use
- Simplified Integration
 - in the production line due to small footprint
- Robust precision infrared sensor available in three sizes
- Multi-sensor-system
 - Connection of additional sensors possible
- Network connection of the calibration system directly to the robot controller, i.e. the calibration procedure takes place in an evaluation unit and transfers correction values to robot controller
 - > High process reliability
 - > No additional PC's required
 - > Logging and data evaluation possible
- Automatic correction of the trajectory
 - due to wear and tear or tool-replacement
 - > No failures caused by positioning factors
 - > 100 % quality assurance
- Reduction of costs
 - > Prevents the production of defective parts
 - > Reduces scrap and rework
 - > Short setup times

The challenge for the calibration system >

Continually securing the correct operating position for robotic tools

advintec[®] TCP – our solution for your requests >

The advintec[®] TCP tool calibration system calibrates the tool and fixture in up to six dimensions in the ongoing production process

- Electronic, precise and fast
- Simple solution for 2D and 3D applications

The tool is automatically corrected by the measured offset and thus always operates at the correct position.

For your applications >



Choose your calibration system >

Applicable for all robot brands fast & simple



advintec® TCP
Highest flexibility for upgrades and activation of various applications in up to 6D

advintec® TCP XS
Simple solution for 2D and 3D applications

Calibration time	3 sec.	complete 2D calibration
	9 sec.	complete 5D calibration
Measuring accuracy	0.02 mm	



advintec® TCP sensors
Available in three sizes (inner dimensions)

- Order no. **TCP0008** > 120 x 120 mm
- Order no. **TCP1008** > 240 x 240 mm
- Order no. **TCP2008** > 320 mm round



advintec® TCP precision laser sensors
Available in two sizes (inner dimensions)

- Order no. **TCP3008** > 120 x 120 mm
- Order no. **TCP4008** > 320 mm round

advintec® TCP XS sensor
Available in 120 x 120 mm infrared



Mobile calibration case
For the initial calibration of unknown tools and fixtures (TCP & Base).

Flexible, mobile calibration for unknown tools and fixtures is now also possible with our mobile calibration case.

Ideal for use when setting up new production lines.



Please scan for technical details