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**
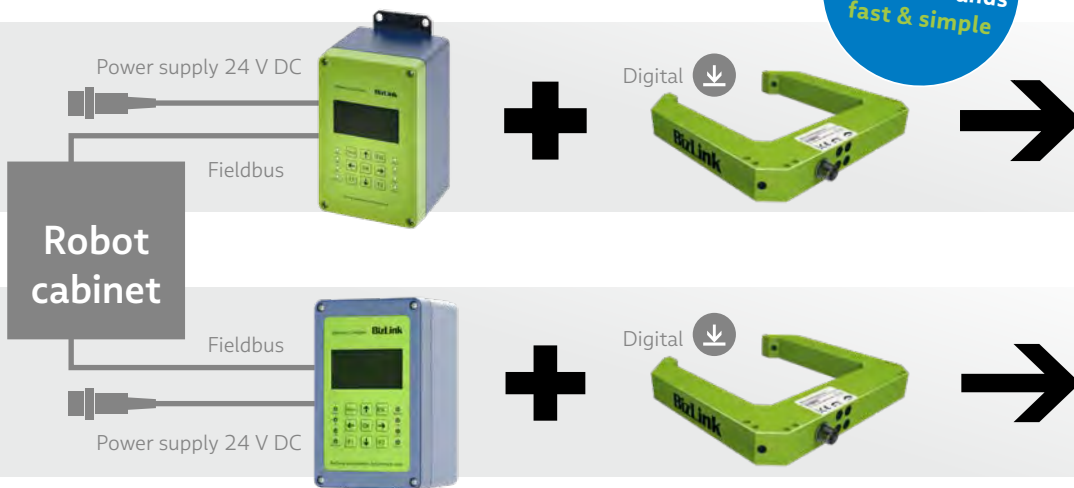- **Simple solution for 2D and 3D applications**

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

02. 2023 / en

For your applications ›

Calibration of
tandem torch /
double wire torch

Gripper calibration

Stud welding

Sealing

Drilling / Milling

Blade measurement

Choose your calibration system ›

Applicable for all robot brands fast & simple

Power supply 24 V DC

Fieldbus

Robot cabinet

Digital

advintec® TCP

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

Fieldbus

Power supply 24 V DC

Digital

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