

Available in two sizes  
(internal dimensions):

- 120 mm x 120 mm
- 240 mm x 240 mm

#### Advantages at a glance

- **Automatic absolute calculation of robotic tools and fixtures**

- **Auto-commissioning and ease of use**

- **Simplified Integration**

in the production line due to small footprint

- **Robust sensor available in two sizes**

- **Multi-sensor-system**

(connection of additional sensors possible)

- **Connection of the calibration system 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 of calibration data
- Data evaluation possible at any time

- **Automatic correction of the trajectory**

due to wear and tear or tool-replacement and 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

#### Factory Automation

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Please scan for more information about calculation and calibration of robotic tools and fixtures in up to 6 dimensions.



## advintec TCP

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

Applicable for all robot brands

Fast and simple

The Quality Connection

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**LEONI**

# At a glance advintec TCP robotic tool and fixture calibration systems

## The challenge

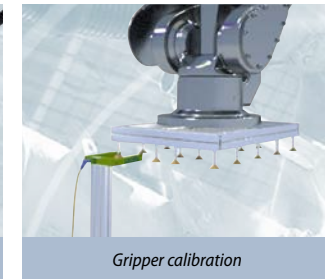
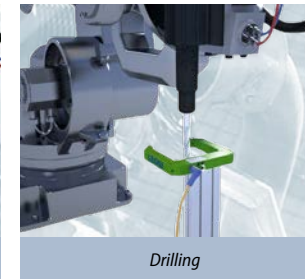
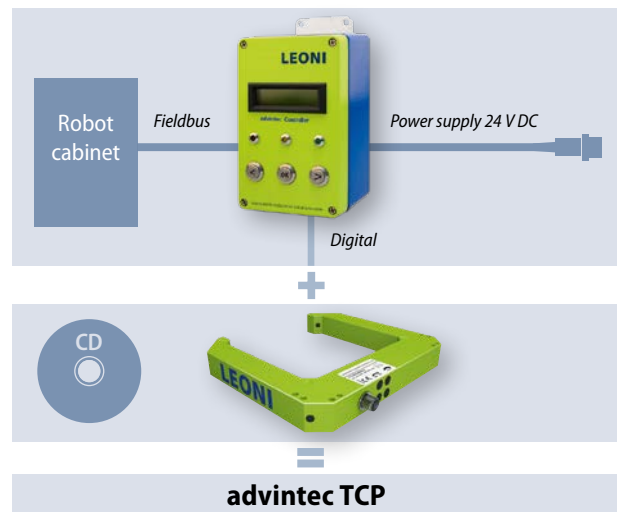
Continually securing the correct operating position for robotic tools

## The solution

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

- Three translatory and three rotatory dimensions
- Electronic, precise and fast

The trajectory is automatically corrected by the measured variations and ensures that the tool always operates at the correct position.



	3D	5D	6D
Calibration time	3 sec. complete 2D calibration 6 sec. complete 3D calibration	9 sec. complete 5D calibration	15 sec. complete 6D calibration
Dimensions	2 or 3 translations	5 (3 translations, 2 rotations)	6 (3 translations, 3 rotations)
Fields of application (applicable for all robot brands)	Arc welding, stud welding, spot welding, laser welding, tig welding, gluing, milling		Gripper calibration, fixture calibration, power train applications, high precision applications

### Technical data at 20 °C / 24 V DC

Sensor type	2 channel infrared 880 nm, pulsed at 2kHz
Interface	Serial or field bus (DeviceNet, Profibus, Profinet, Interbus etc.)
Measuring accuracy	0.02 mm
Protection class	IP67
Dirty surroundings	Yes
Casing	Aluminium
Automatic correction of tool data	Yes
CE mark	Yes
Operating voltage, Connections	10 – 34 V DC, IBS connector, 5 pin, PE advance conn.