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

Find out more:

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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.

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.

Technical data at 20 °C / 24 V DC
- Sensor type: 2 channel infrared 880 nm, pulsed at 2kHz
- Interface: Serial or field bus (DeviceNet, Profinbus, Profinet etc.)
- Measuring accuracy: 0.02 mm
- Protection class: IP67
- Dirty surroundings: Yes
- Casing: Aluminium
- Automatic correction of tool data: Yes
- Operating voltage, Connections: 10 – 34 V DC, IBS connector, 5 pin, PE advance conn.