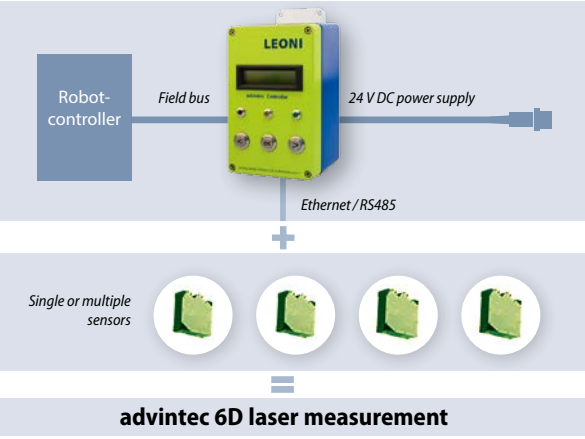
More about
advintec 6D laser measurement

**Benefits**

- **High precision 6D laser measurement**
  - No calibration tools or reference parts required (high cost savings)
- **Robot program corrections take place directly and automatically within the ongoing production process**
  - No failures caused by positioning factors
  - Avoids collisions
- **Eliminates manual program corrections**
- **Simple to integrate and use**
- **Simple commissioning via supplied robot program**
- **High tolerance to ambient light**
- **Measurement time < 20 s** (dependent on configuration and application)
- **Cost savings compared to conventional mechanical systems**

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# advintec 6D laser measurement

Calibration systems for grippers, parts and fixtures in up to 6 dimensions

new

**Inline**
**High precision**
**Fast**

11/2015 / en_xxx

**The Quality Connection**

LEONI

# Overview
# advintec 6D laser measurement

## Unracking

**Task**

To ensure correct gripping of bodywork components, e. g. bonnets, side and roof panels etc, from racks or storage systems.

**Solution**

- 6D-measurement of the part position (translational and rotational) via integrated sensors in the gripper (laser or ultrasonic).
- Gripping position is corrected automatically.
  The system is compact, lightweight, robust and integrated directly into the gripper for easy integration to the production line with no costly modifications required.

## Gripper measurement

**Task**

To measure grippers or gripped parts for precision handling, e. g. for power-train applications, such as engine and transmission parts.

**Solution**

- 6D laser measurement of grippers / gripped parts using stationary sensors.
- Changes in the gripper / part position are detected early and corrected online. This avoids collisions and optimises precision positioning.

## Part measurement

**Task**

To ensure the correct processing position of parts for precision applications such as handling, welding, sealing, milling etc.

**Solution**

- 6D laser measurement of the position of components and fixtures.
- The robot path is automatically corrected according to component position to ensure processing always takes place in the correct location.

**Protection class IP67**

**Use of different laser sensors – appropriate to application**

CE

**Suitable for harsh environments**