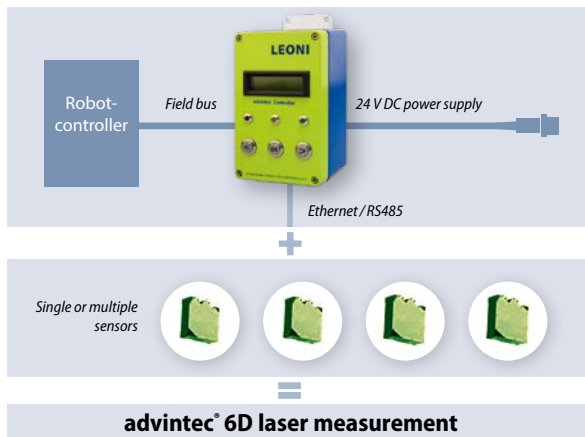




More about
advintec® 6D laser measurement

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 starting at 3 sec.**
(dependent on configuration and application)
- **Cost savings compared to conventional mechanical systems**



Factory Automation

www.leoni-factory-automation.com

[@LeoniFactoryAut](https://twitter.com/LeoniFactoryAut)

[LEONI Factory Automation](https://www.linkedin.com/company/leoni-factory-automation)

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advintec® 6D laser measurement

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

Inline

High precision

Fast



The Quality Connection

03.2019 / en_400

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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 location

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.