GUIDANCE FOR AUTOMATION

accurate positioning of industrial robots
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Robotics and machine vision have become the main actors in the industrial environment. Robot technology plays an important part in the production process. Various vision systems are widely used for inspection and quality control processes. Due to increasing complexity of the assembly as well as the manufacturing process, the companies have to use precise vision guidance systems and robots in order to improve their accuracy and productivity rates. We at OptiNav equip all kinds of industrial robots with a personalized machine vision system to fulfill individual customers’ needs.

- **Advantages**
  - increased absolute accuracy
  - customized spectrum of covered volume
  - proven industrial components and software

- **Features**
  - high accuracy down to tenth of a millimeter
  - automated calibration processes
  - flexible camera fixing on tool or gripper
  - environmental stability in production

- **Applications**
  - position correction of industrial robots
  - controlling welding and milling robots
  - precise positioning for assembly
  - sorting from the conveyor belt

Industrial robot

Customized camera navigation system

Flat markers for position acquisition of the defined target