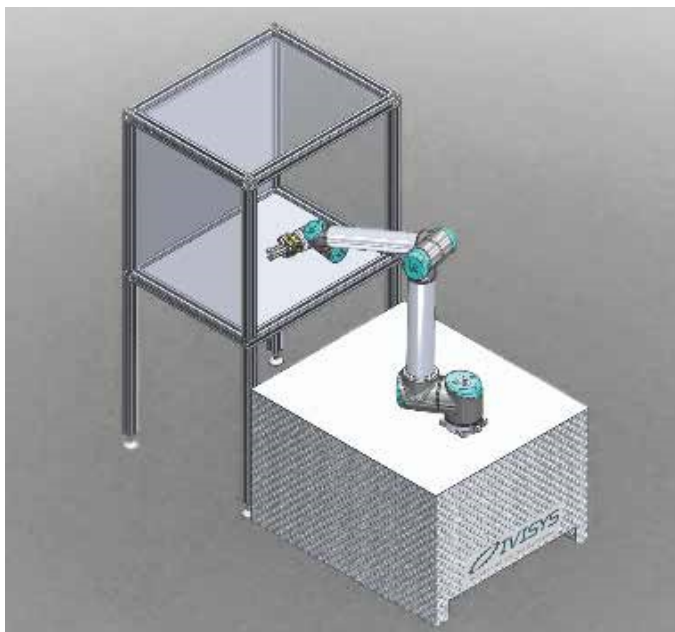


UNIVERSAL INSPECTION STATION

The Universal Inspection Station **Robo Inspect-6** is a vision inspection station, which is programmable for a wide range of vision inspection tasks. It consists of a robot arm with 6 degrees of freedom and a light and camera system inside a protected inspection area. Heavy parts or parts difficult to inspect directly in the production flow, are picked up by the robot arm and entered inside the inspection area under controlled light conditions. The robot arm is programmed for each different part to present it to the camera system in the needed presentations. After inspection, parts are sorted into good or bad bins.



Detect flaws and Measure dimensions of several similar components which are different in size, weight and geometry. The robot arm carries the particular part to the inspection area and presents it in the most suitable presentation in angle and distance. The part can be rotated in all directions for various inspections.

The **Robo Inspect-6** system is useful in performing Flaw detection, Verification and optical gauging jobs. It can also be used to create high resolution all-around 3D scans and 3D reconstructed models of objects for inspection in 3D. The system provides:

- Unlimited Flexibility in product presentation
- High configurability for new parts
- Ease of installation and integration into existing production environment

Two different vision systems with different optics, camera resolutions and light conditions are used inside the inspection cabinet. One vision system is optimized to make precise and accurate measurements at better than 10 μm resolution. The other vision system is designed to detect porosities down to 50 μm in encompassing circle. The 2 vision systems in coordination with robot arm movements work sequentially to perform a complete inspection.

