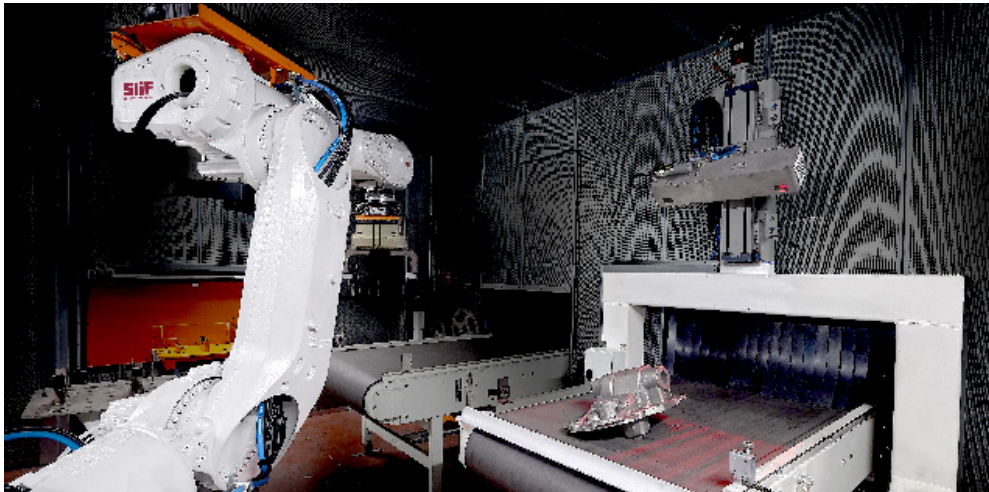


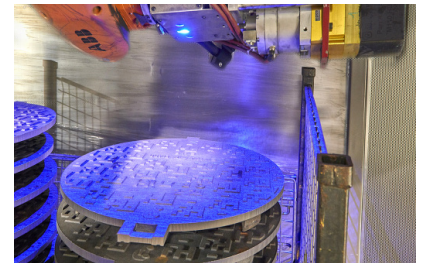


# VISION SYSTEMS



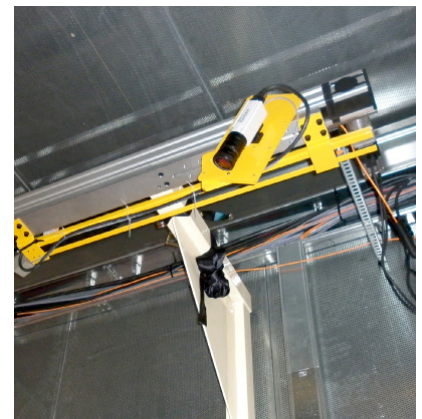
## LOCATION FOR ROBOT CONNECTION

- Static part with 2D, 3D triangulation vision (scan of the part, fixed or moving camera) and 3D stereoscopic vision.
- Static part during pallet unloading with 3D stereoscopic vision system.
- Moving part with 2D vision system (robotic picking by tracking).



## SIMPLE MISSING/PRESENT TYPE CHECK, CASTING TYPE/REFERENCE, CORRECT PLACEMENT, ETC.

- 2D-3D vision sensor
- 2D vision system



## DIAMETER, SPACING, POSITIONING TYPE CHECK ON THE PART, ETC.

- Vision sensor for simple measurements.
- 2D-3D vision system.
- Profile meter with 3D reconstruction option.
- Tipper bulk unloading with 3D volumetric sensor: IFM.
- SiiF integrates the following brands: COGNEX, SICK, KEYENCE, ENSENSO (HALCON software), IFM, etc.

