PickMan
Fast Post-Processing Solution
Characteristics and Benefits

- Software for high-performance Random Pick & Place („Bin Picking“)
- Fast Post-Processing in milliseconds includes:
  - Objects can be of arbitrary shape or parametrized
  - Container detection (edge detection)
  - Emptiness detection
  - Object detection and pick point determination
  - Collision calculation with the container, surrounding parts and own gripper models
- Pick points are transferred directly into the robots coordinate system
- Robust edge detection even with partial superposition in 80 milliseconds!
- Connects directly with your robotics (via Ethernet)
- Individual process parameters adaptable to the application
- Combined with EnShape 3D sensors a total pick point determination time can be realized with less than 400 milliseconds
- Rapid post-processing and reliable collision detection guarantee a high robustness, flexibility and safety coupled with a high cycle rate
- Situational Bin Picking – No fixed robot paths but intelligent pick movements

High Profitability

- Efficient and easy operation
- Low initial costs
- Easy installation and rapid integration into existing processes
- Huge variety of parts can be processed
- In combination with the EnShape 3D Sensors PickMan allows a unique high level of automation

Potential Applications

- Random Pick & Place applications – „Bin Picking“ (e.g. metal casting or metal sheet parts)
- Component localization for assembly automation
- Order picking and high speed sorting of products
- Assistance system for robot applications