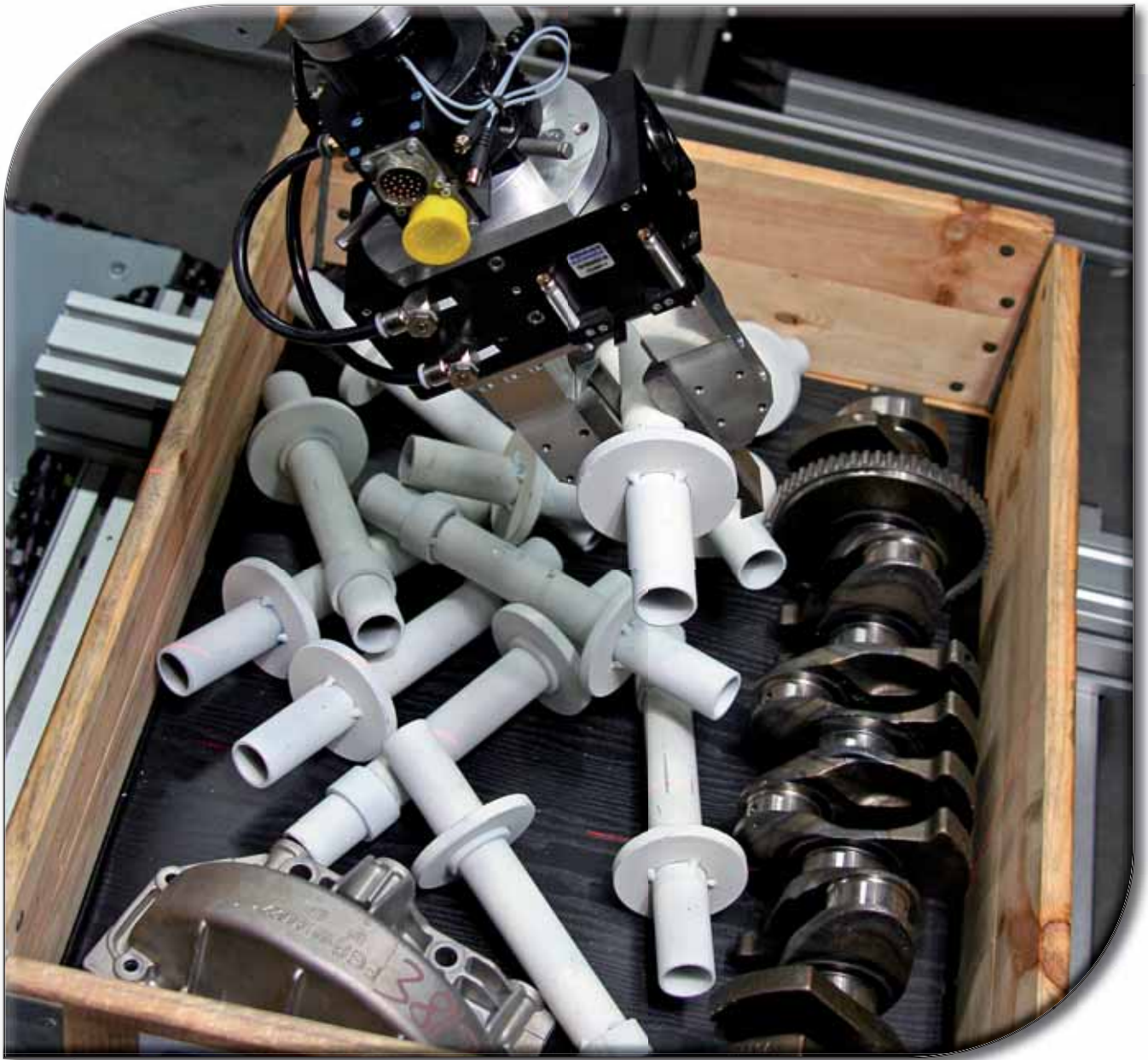


iRob Feeder

INDIVIDUAL ROBOTIC BIN PICKING



iROB FEEDER

COMPACT COMPLETE SOLUTION FOR INDIVIDUAL ROBOTIC BIN PICKING

iRob Feeder captivates with its flexible usability, short break-even time and compact construction. The bin picking system features a full-processing chain from 3D sensor scanning to automatic robot program execution. Additionally, the system is easy to integrate and extendable independent of the process or the product.

Industrial solution

Reduction of costs is accomplished due to innovative industrial solution focusing on processes involving large, bulky and often rotationally symmetric parts. Batch sizes can be reduced down to lot size 1. Work-pieces used to be transported manually in the past, whereas now it is possible to accomplish this task by robotic applications. The instant results are higher product quality and a decrease of the human workload.

Profitable production for small batch sizes down to a single piece

iRob Feeder handles a great variety of work-pieces and places them correctly for further processing. The individual parts no longer have to be supplied correctly sorted to the system. iRob Feeder localises the 3D position of the work-piece, even in non-standard surroundings, for example boxes or bins. That way, your company saves time-consuming preparation of parts and workspace. A distributed control concept enables quick and easy integration in a production system.

The technology behind iRob Feeder

- Robust 3D object recognition and dynamic work cell modelling
- Real-time compatible and adaptive handling planning
- Real-time compatible and reactive downstream process planning
- Combining autonomous and user-guided operation

Your benefits

- Quick and easy integration in your production system
- Quick and straight forward re-tooling
- Feeding, sorting and separating devices are no longer needed
- Fast product change
- Reduction of scheduled production down-times
- Easy programming and handling

Technology platform for an entire product group

- Handling on presses and forging machines
- Handling on die casting and injection moulding machines
- Handling on tooling machines as well as for order picking and palletising



ONE PRODUCT, MANY SOLUTIONS

iROB FEEDER USEFUL FOR NUMEROUS APPLICATIONS –
INDEPENDENT OF THE END PRODUCT



Stand-alone bin picking

- Remove unsorted parts from boxes/packages
- Placement in transport holders or feeding for further process steps

Picking from work carriers

- Increased flexibility by expansion of the conveying system for load and unload



Palletising and packaging

- Removal of unaligned work-pieces from the conveyor belt
- Aligned placement in transport or packaging containers

Picking from conveyor belt

- Removal of unaligned or inaccurately aligned parts from the conveyor belt
- Removal of parts from transport or process supports



iROB FEEDER

BASIC MODULES AND FUNCTIONS OF THE SYSTEM

Cell platform with housing and safety equipment:

Individually adapted size and design

Conveyor systems:

Applied to the packaging and range of parts as well as the requirements of the parts reserve

Robots:

6-axis robots of different weight classes and operating ranges

Object and position recognition:

2D and 3D vision system

Software:

PLC with embedded software tools for automatic robotic trajectory planning and gripping strategy

YOUR CONTACT PARTNERS

COMPETENCE IN ALL AREAS



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