Deburring Cell for Die Casting

Custom cast parts, diverse requirements – we provide the flexible deburring solution.

Your advantages at a glance:

- Maximum flexibility through the use of various processing tools (belt grinders, deburring spindles, pneumatic files).
- Compact cell design for minimal footprint with maximum process integration.
- Easy setup of new types thanks to a unified control concept – new component variants can be quickly and intuitively integrated.
- Digital twin – Utilize the capabilities of ABB RobotStudio: test reachability and program new workpieces offline to optimize your production times.
- Large viewing windows allow optimal observation of the deburring process and ensure maximum transparency.
- Extraction system, specifically designed for the safe removal of grinding dust.

Workpiece-Guided Deburring Cell for Die Casting – Redefining Flexibility

Smaller batch sizes and a high degree of product variety require flexible automation solutions. Our workpiece-guided deburring cell for die casting is designed precisely to meet these demands. Workpieces are fed into the cell via an infeed conveyor, where they are identified by an integrated camera system and precisely picked up by the robot using its gripper system.

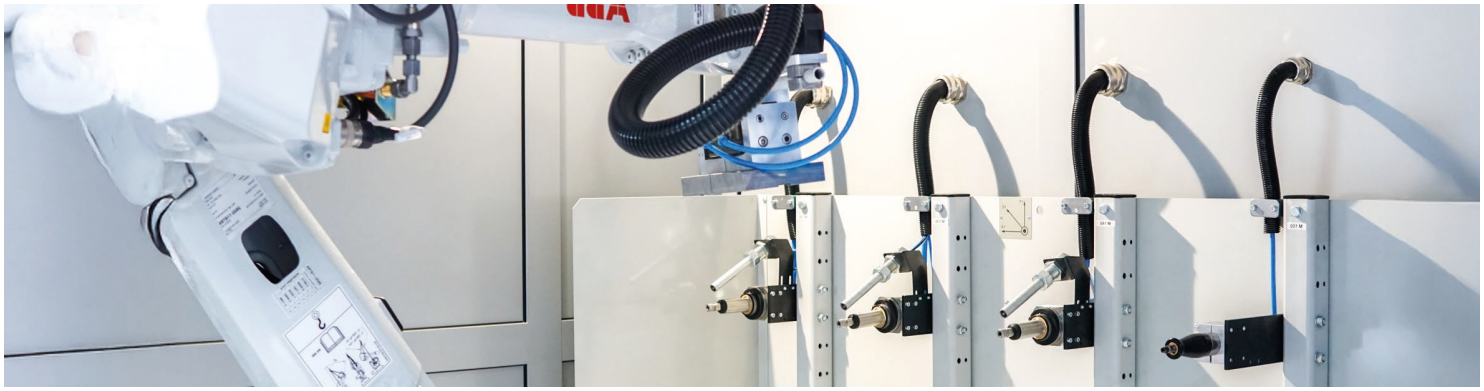
Inside the cell, a variety of machining tools are permanently installed, including belt grinders, compliant deburring spindles, rigid deburring spindles, and pneumatic files. The robot guides the workpieces along these fixed tools, allowing for efficient deburring of diverse cast parts. This workpiece-guided approach enables quick transitions between different machining stations with minimal setup effort. If adjustments are necessary, the machining spindles can be manually adjusted in height.

After the deburring process, the workpieces exit the cell via an outfeed conveyor. An integrated extraction system reliably removes any grinding dust, ensuring clean and safe working conditions.

Control and Handling

The entire control of the machining processes is centrally managed by the robot. This setup not only handles machining tasks but also flexibly covers handling operations such as loading and unloading of the feeding systems. New programs and machining routines can be independently and swiftly adjusted without the need for complex external programming

Our workpiece-guided deburring cell epitomizes maximum flexibility, short setup times, and reliable automated deburring in die casting—perfectly tailored to meet the demands of modern production environments.



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