

Sand Removal from Engine Blocks/Cylinder Heads in a Complete Automatic Operating Process

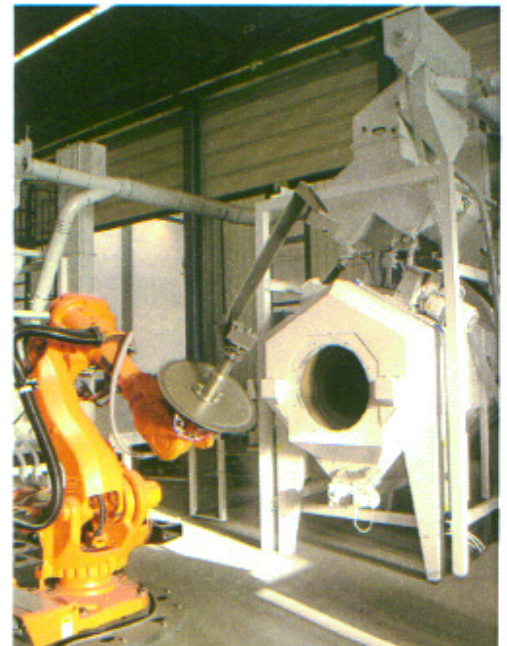
Advantages:

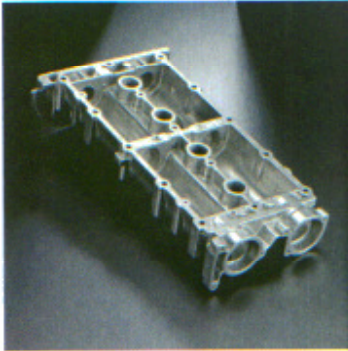
- **Reduced cycle times = high production**
- **Consistent full production capability and process reliability**
- **Multiple applications for large or specifically targeted areas**
- **Proven and reliable integration of systems and components**

Rösler Roboblaster® RROB 350/1200:

- 4 direct drive Hurricane® blasting wheels, up to 15 kW motor output
- Mobile nozzles as an alternative
- Robotic gripper adaptable to many applications
- Air-tight, mechanical-free sealing system
- Wet or dry filter unit

Common applications include engine blocks, cylinder heads, crankshafts made of steel, aluminium, magnesium, etc.





Sand removal from engine blocks demands a lot from human as well as machine resources. It's very important to achieve short cycle times with absolute consistency. In the past, the best results had been attained by Over-Head-Rail-Blasting units.

The Rösler Roboblaster offers several advantages. The cycle times can be reduced to a minimum. With its precision gripper, the robot accurately picks the parts from a conveyor and positions them in the blasting cabinet before placing the parts on another conveyor. All this is done with accuracy, speed and reliability.

All machine parts in contact with blasting media are made of high quality wear-resistant manganese steel plates. This ensures the long life of the machine and minimal maintenance requirements.

Optionally, the blasting unit can either be equipped with blasting wheels of high performance or with mobile blasting nozzles. The nozzles are best-suited for removal of sand from normally "hard-to-reach" areas.

The air-tight sealing system and the precision robotic positioning of the workpieces guarantee a perfect and consistent blasting result. The gripper's sixth stage rotation ensures a virtually media-free workpiece after the blasting process, saving time and clean up.

In order to separate sand from the recycled media flow, special units like a double cascade air flow separator, a by-pass media separator, a cyclonic separator, and if necessary, a magnetic separator guarantee perfect cleaning of the media. Clean media prevents "wear and tear" on the machine, ensuring a long life.

The integration between robot and other process components is absolutely trouble-free. With the untreated workpieces in correct position, the remaining tasks can be efficiently accomplished by the robot in full automatic mode.

Rösler designs, manufactures, and supports complete customer specific process solutions including machine components, media, and after-sales parts and service.

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