

Robotic Or Dedicated Deburring Machine

We have a stainless part that you can hold in one hand that needs deburring. Our deburring machine choice is a robot or a dedicated specialty automated deburring machine.

What would you recommend we purchase?

Assuming the production rates can be met by both systems and the pricing is relatively the same, I would recommend the robot.

We have sold the dedicated machines for years. Once the product is changed or discontinued the dedicated machine becomes a boat anchor. Also if the burr is larger than average, which happens quite frequently, the dedicated machine may not work. Sending the part through the machine twice is not practical.

The case for dedicated machines is very large production rates. They can be faster than robots.

An industrial robot, by its definition, is multipurpose. This is very important with declining product life cycles; improved quality requirements; deburring time cycle flexibility; and reduced production rates.

Consider the average robot service life is 15 years. The dedicated machine will also last 15 years, however, will the job last 15 years?

Most U.S. manufactures are looking for a one-year machine payback. When a robot is paid for in one year, it has the other 14 years that can be used for other projects.

North America brings up the rear in estimated 2015 yearly robot sales at 35,000 units. In comparison Europe's estimated 2015 sales are 47,000, with Asia in the lead at 120,000.

Flexibility is key. Manufacturing in America is moving toward specialty industries, more complex parts, and less production. Robots work well in these environments

