Grinding of solar container welding head

Can 3D Vision be used for weld seam grinding on curved surface?
In this paper,a path planning method based on 3D vision is proposed for weld seam grinding on curved surface. Compared with manual teaching and programming,the method realizes the automatic planning of weld seam grinding path on the surface,and improves the efficiency of grinding operation.

How to plan a weld grinding path?
When planning the weld grinding path,first use the teaching device to move the industrial robot,so that the workpiece appears in the FOV of 3D camera. After that,the 3D camera is used to acquire the point cloud of workpiece,and the point cloud data is transmitted to the IPC through the USB interface.

How to grind weld seam on curved surfaces?
For the grinding of weld seam on curved surfaces,some researchers have proposed path planning schemes based on line laser sensor[12,13]. In literature ,firstly,the robot carries a linear laser sensor to scan the workpiece. Then the structured point cloud of weld seam is reconstructed.

How a grinding path generation method is used in rail welds?
Wu et al. proposed a grinding path generation method for rail welds . They first use the robot to carry a laser sensor to scan the rail weld, so as to obtain the point cloud of the rail weld. And then fitting the obtained point cloud to generate a CAD model.

How tangent planes and workpiece point cloud determine a weld profile?
By calculating the intersecting pointsbetween tangent planes and workpiece point cloud,this method identifies the weld profile and extracts the feature points located in weld center. A method of posture planning for grinding tool is presented based on grinding tool model.

How do you teach a S shaped weld?
In addition, for the S-shaped weld on the surface, manual teaching programming needs to teach a lot of path points, and needs to ensure that the grinding point is at the center of the weld, which requires constant observation by the human eye, and the whole process is very inconvenient.

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Cutting, bevelling, welding and dressing - day-to-day container engineering involves heavy-duty material

processing and is constrained by standardised dimensions and workflows. The grinding tools used ...

Recent discovery of a cracked and leaking Reactor Pressure Vessel Head (RPVH) nozzles have raised concerns about the structural integrity of RPVH nozzles in the pressurized water ...

I know you can access the inventory of the grinders through a cargo container when they"re connected with conveyors, but they don"t seem to move the supplies over to the cargo by themselves yet.

NEVER weld, cut, grind, or drill on any container that has ever held a flammable liquid or material unless you have had proper training, and you use the correct equipment and procedures, including ...

In robot grinding, the path planning has always been the main factor affecting the grinding efficiency. To improve the accuracy and automation level of robot grinding, a novel path ...

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