山东消声器环缝焊接专机公司

产品名称	山东消声器环缝焊接专机公司
公司名称	泰安扬帆数控科技有限公司
价格	100.00/个
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产品详情

应用焊接机器人的意义

The significance of applying the welding robot

焊接机器人之所以能够占据整个工业机器人总量的40%以上，与焊接这个特殊的行业有关，焊接作为工业“ 裁缝 ”，是工业生产中非常重要的加工手段，同时由于焊接烟尘、弧光、金属飞溅的存在，焊接的工作环境又非常恶劣，焊接质量的好坏对产品质量起决定性的影响。归纳起来采用焊接机器人有下列主要意义：

Welding robot can occupy more than 40% of the total industrial robot. It is related to the special welding industry. Welding is an industrial "tailor". It is a very important processing means in industrial production. At the same time, the welding work environment is very bad because of the existence of welding smoke, arc and metal spatter. The quality of welding plays a decisive role in the quality of products. To sum up, welding robot has the following main significance:

（1）稳定和提高焊接质量,保证其均一性。焊接参数如焊接电流、电压、焊接速度及焊接干伸长度等对焊接结果起决定作用。采用机器人焊接时对于每条焊缝的焊接参数都是恒定的，焊缝质量受人的因素影响较小,降低了对工人操作技术的要求，因此焊接质量是稳定的。而人工焊接时，焊接速度、干伸长等都是变化的，因此很难做到质量的均一性。

(1) to stabilize and improve welding quality and ensure its uniformity. Welding parameters such as welding current, voltage, welding speed and welding dry extension length have a decisive effect on welding results. The welding parameters of each weld are constant when the robot is welded, and the quality of the weld is less influenced by the factors of human being. The welding quality is stable, so the requirements for the operation of the workers are reduced. In manual welding, welding speed, dry elongation and so on are all changing, so it is difficult to achieve uniformity of quality.

（2）改善了工人的劳动条件。采用机器人焊接工人只是用来装卸工件，远离了焊接弧光、烟雾和飞溅等

，对于点焊来说工人不再搬运笨重的手工焊钳，使工人从大强度的体力劳动中解脱出来。

(2) the workers' working conditions have been improved. Robot welders are used only to load and unload the workpiece, away from welding arc, smoke and splash. For spot welding workers no longer carry heavy manual welding pliers, so that workers are free from heavy manual labor.

（3）提高劳动生产率。机器人没有疲劳，一天可24小时连续生产，另外随着高速高效焊接技术的应用，使用机器人焊接，效率提高的更加明显。

(3) improve labor productivity. The robot has no fatigue and can produce 24 hours a day continuously. In addition, with the application of high speed and efficient welding technology, the efficiency of welding is more obvious with the use of robot welding.

（4）产品周期明确，容易控制产品产量。机器人的生产节拍是固定的，因此安排生产计划非常明确。

(4) product cycle is clear and easy to control product output. The production rhythm of robots is fixed, so the production plan is very clear.

合理的变位机位置、焊接机器人焊枪姿态、焊枪相对接头的位置。工件在变位机上固定之后，若焊缝不是理想的位置与角度，就要求编程时不断调整变位机，使得焊接的焊缝按照焊接顺序逐次达到水平位置，同时，合理地确定焊枪相对接头的位置、角度与焊丝伸出长度。

Reasonable position of the position changing machine, welding torch gesture of welding robot and position of relative position of welding torch. If the workpiece is fixed on the variable position machine, if the weld is not the ideal position and angle, it is required to adjust the position machine constantly when programming, so that the weld seam will reach the horizontal position in accordance with the welding sequence. At the same time, the position and angle of the welding gun relative to the welding wire and the length of the welding wire are determined.

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