

Heat Treat Blow-off Tank

Customer's Industry and Application Details:

This leading manufacturer of lawn mower blades was having safety issues with their current heat treating process. The last stage in the heat treat process was a quench oil dip.

Prior to being dipped in the quench oil, the parts were taken via a mono-rail to a separate location in their plant to be handled by a robot for further modification. This had to be completed before they were shipped to the lawn mower manufacturer to be installed onto the mowers.

This process was causing excess oil to be dripped onto the floor and cause a hazard for their employees and the end user.

The JRI Solution:

JRI was enlisted to design a blow off system to go inline and integrated with the customers current heat treat line. The space was limited, but JRI was up to the challenge of creating a system that could be automatically operated with the current PLC and that could dry the parts of the excess oil prior to leaving the heat treat line.

JRI designed a system that had a retractable lid with air knives installed to blow from the top along with oscillating manifold to surround the part and blow heated air from all sides. The outcome was dry parts with no dripping oil. JRI was able to design a system that eliminated the oil that was being carried around the plant and causing issues for the end user of the blades.



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