InfoSight

InfoSight Custom Solutions

IDLMS—Inside Diameter Laser Marking System

Problem: In order to easily identify pipes that are stacked, the inside of the pipe must be marked, however, marking the inside of small diameter pipes can be difficult.

Solution: InfoSight designed an automatic system to laser mark the inside diameter of pipes as small as 7.64” (194mm).

Marking the inside of pipes is desirable if the pipes will be stacked. When viewed from the marked end, locating and reading the identification mark on any of the stacked pipes is much easier than if the mark was somewhere along the outside of the pipe.

InfoSight has previously designed IDLMS systems that mark 1D or 2D bar codes, alpha-numeric characters, and logos on the inside of large diameter pipes. Recently, we had a customer that needed to mark the inside of smaller pipes, the smallest of which has a diameter of 7.64 inches (194mm). This created a challenge for inserting the marking head inside the pipe. In addition, plant space limitations generated the need for a new pipe stop-and-lift mechanism to position the pipe properly.

Our engineers designed a system that includes a “pop up” pipe support to stabilize small pipes during marking. The marking head was designed with two spray nozzles to give the customer the flexibility they needed for spraying the white patch and optional clear coat. The laser marker was designed specifically to fit within the confines of the small pipe. InfoSight engineers worked with the customer to meet not just the “needs” of the system, but also incorporate “nice to have” features the customer didn't even know they would want until they saw them.

Click or Scan the QR Code To Watch The Equipment in Action

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