Activa Netcom & Energy Systems

Fiber optic sensor for weld seam inspection

Overview

– Laser-profile or optical triangulation sensors are commonly used for weld seam finding because they can generate precise profiles of the weld joint. – Accurate detection of seam position, gap, mismatch, and misalignment ensures high-quality welding with fewer errors. After the welding process has been completed, the result must be checked. Irregularities such as missing, double, undulated or other faulty welds are reliably detected by 2D/3D. SeamControl is the advanced sensor system for optical laser weld seam inspection - based on the proven technology of the SOUVIS system and consistently further developed to meet the requirements of modern, networked production environments. This has a positive effect on productivity, as it allows for a faster production project. Active seam detection scans the edge offset at the joint without contact using light bars, thus ensuring precise positioning of the tool at all times. Click on each standard to learn more.

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Article Content

Xiris Weld Inspection Systems

Xiris weld inspection systems use proven laser-based vision system technology with high resolution, fast data capture and analysis rates to provide real-time detection

Weld seam inspection with profile sensor

With our standard software VisionTools V60, defect features such as pores, holes, binding defects and weld spatter are reliably detected from a defect size of 0.3 mm. Sensor or part can be moved at up to

Welding Seam Inspection | Automotive Industry | KEYENCE America

Welding Seam Inspection Welding is a crucial part of numerous industries, from general construction to the automotive industry, aerospace, shipping and rail, and maintenance. Good welds help ensure

Detect and Inspect Welding Seams | wenglor

During welding, the type of material, the welding technique used and the ambient conditions determine the result. It is therefore important to check the welded joint

Detect and Inspect Welding Seams | wenglor

For this purpose, welding systems are equipped with the innovative weCat3D 2D/3D profile sensors for weld seam inspection. After the welding process has been completed, the result must be checked.

All-fiber optic integration type of weld seam image sensing system

A novel all-fiber optic integration type of weld seam image sensing system with line-structure light projection is put forward, which the optical projection field of line-structure light is ...

Optical weld seam inspection system works on highly reflective materials

Vitronic offers the fourth-generation VIRO wsi optical inspection system for fully automated inspection of weld seams in industrial manufacturing processes. The system can be used to

Weld seam inspection with profile sensor

Weld seam inspection with profile sensor In joining technology, the quality of weld seams is validated with optical 3D sensors Welding tasks are a frequent application and can be easily automated if the

Weld Seam Inspection | AT Sensors

AT Sensors offers an optimal solution for the inspection and testing of weld seams to meet the highest quality and safety standards. The inspection of weld seams

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How to Select the Right Laser Weld Seam Tracking

A laser seam tracking sensor is used to significantly enhance the precision process by following the weld seam and guiding the automated welder. This has a positive

Infrared Seam Inspection System | Seamvision

Seamvision | Infrared Seam Inspection System Provide your customer that extra level of comfort knowing their product was monitored for quality inspection. It is a

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