

Gridbots weldSCAN

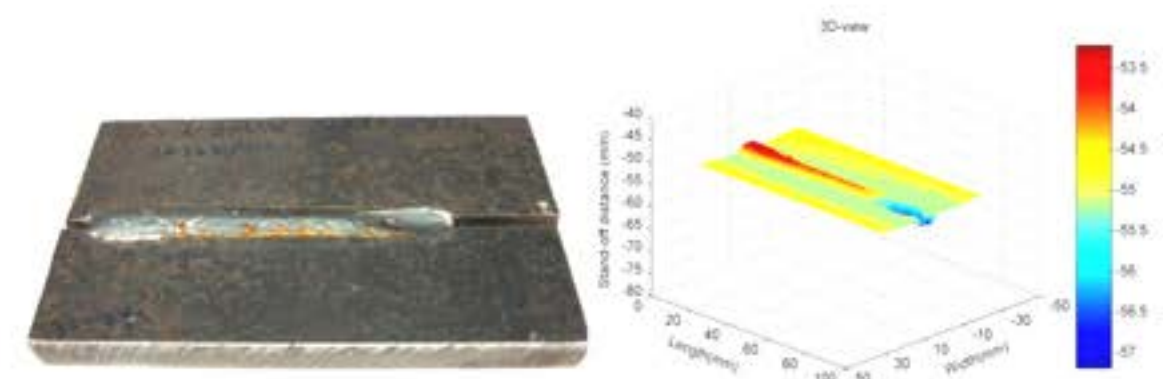
Realtime Welding Quality Inspection System

Gridbots weldSCAN is a realtime 3D scanning system which can help in the quality inspection of the welding seam and beads. Any abnormality from the the given pattern can be detected like - underfill , overfill or miss. The system can also detect the cracks in the weld if they are visible and can calculate the weld volume in real time.

The system provides multiple GPIO lines which can be programmed to stop or manoeuvr the welding torch.

Technical Features

- 1000 Profile Scans/ second
- Height Resolution : 0.1 mm
- Field Of View Width : Upto 300 mm
- Lateral Resolution : 0.1 mm
- Illumination : Laser
- Trigger Input : Rising/Falling
- Power Consumption : 50W
- Embedded Controller : Intel
- Weight: 1 Kg
- Interface: TCP-IP



Defects Detected

 crack	 porosity	 reinforcement	 undercut
 sharp corner	 incomplete filled groove	 root concavity	 misalignment
	 root dropout	 partial penetration	

