



Nut - Bolt Detector Model: NBD-512LM



Controller



Nut / Bolt Detector



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NASH Weld Nut Detection System is the state of the art microprocessor based system designed to detect the presence of fastener or weld part during nut welding operation. It also determines correct orientation and single number of fastener and weld part in the welding application. Its high resolution sensing capabilities, speed of operation, low maintenance requirements and ease of integration into existing processes makes it the ideal solution for demanding nut welding applications.

Standard solutions offered

The product is engineered specifically for integration into nut welding with following detection Capabilities:

- Weld pin extended position (System ready to load part and fastener)
- Weld OK to proceed (Presence and correct fastener or part orientation)
- Weld pin retracted (System not ready)
- Fastener is upside down (Reverse nut)
- No fastener detected (Missing nut)
- No part detected (No nut / No part)
- Multiple fastener detected (More than one nut)
- Multiple weld part detected (More than one weld sheet)
- Wrong fastener (Difference in heights)
- Misloaded parts (Not oriented, Detected with difference in height)

Salient features

- Microprocessor based system with direct integration to sensor
- Inbuilt power supply for sensor (No external DC power supply required)
- Can adapt to most automated resistance welding systems
- Operable in any orientation
- Available in 50 and 100 mm stroke lengths
- Accurate to ± 0.002 mm (based on 50 mm stroke)
- No need for external guarding
- Re-deployable over multiple programs/applications
- Program selection via front keyboard
- Readable user friendly front LCD display
- Operates at 2 bar / 30 psi air pressure

Electrical Supply

230 ~ 415 V AC +15/-10% 50/60 Hz

Pneumatic supply

Filtered compressed air regulated @ 2 bar/30 psi (FRL optional)