CASE STUDY

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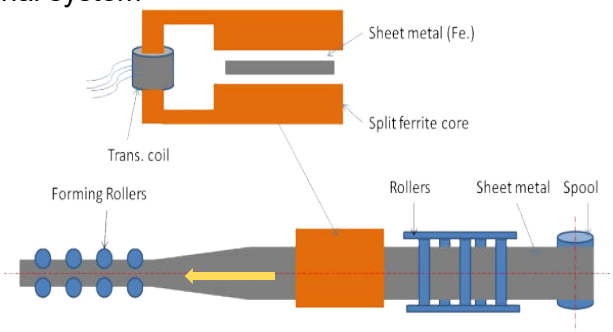
AUTOMATED SHEET WEIGH AND CUT SYSTEM

- Inline System designed to measure volume of input metal sheet required to produce cold drawn pipes in real time
- Specially design mechanism to measure the averaged L,B,H of the raw metal sheet
- Calculate the material required the final pipe size and command the cutting position

Technology:

- Laser sensor
- Advanced digital filters
- USB interface, Motor driver interface
- HMI development
- Advantage:
- Reduced material wastage by 80% than using conventional system

SW: NI Labview



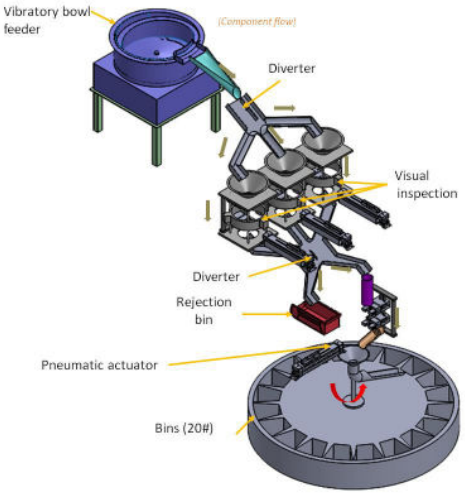
IN-LINE AUTOMATIC SWITCH INSPECTION SYSTEM

- Complete automated high speed inspection and sorting system for High volume product manufacturing
- Inspection of component made of glass for Cracks, Improper end sealing, dirt/particle (<50um), Electrical test
- No human intervention, except for loading components and removing the sorted components

Technology:

- Image processing
- Electrical test procedure automation
- Motor controls
- HMI development
- Advantage:
- Reduction of Manpower
- Consistent and accurate test and sorting

SW: NI-Labview, Embedded C



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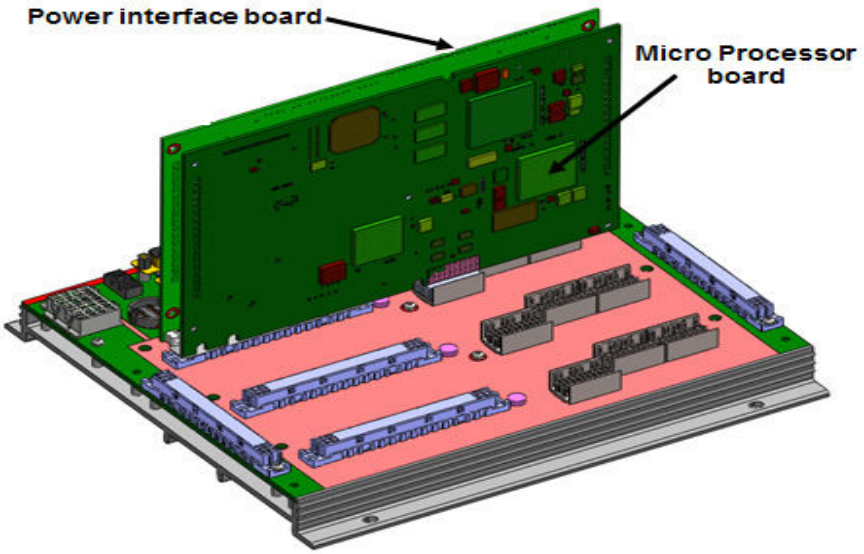
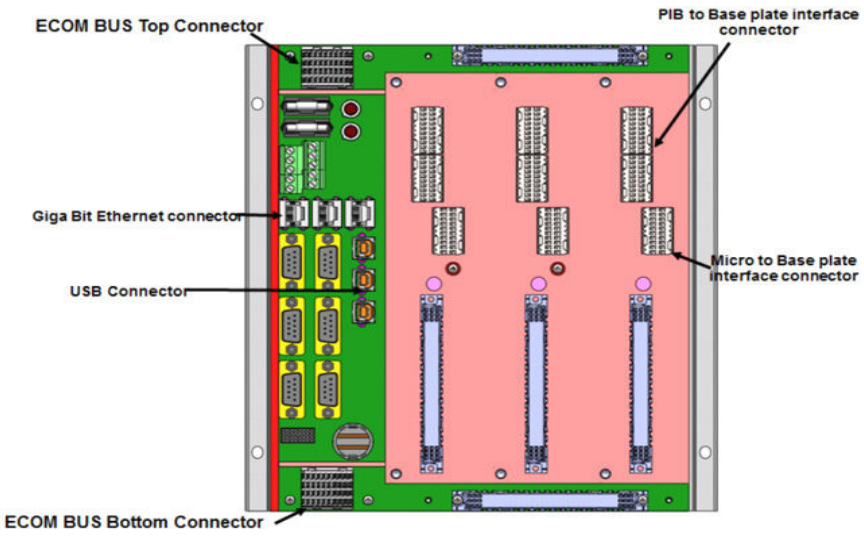
MULTI BOARD SIGNAL INTEGRITY ANALYSIS

To analyze and recommend signal topologies and interconnect rules for high speed signals from a micro-processor controller board to redundant modules through a motherboard and board end connectors.





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