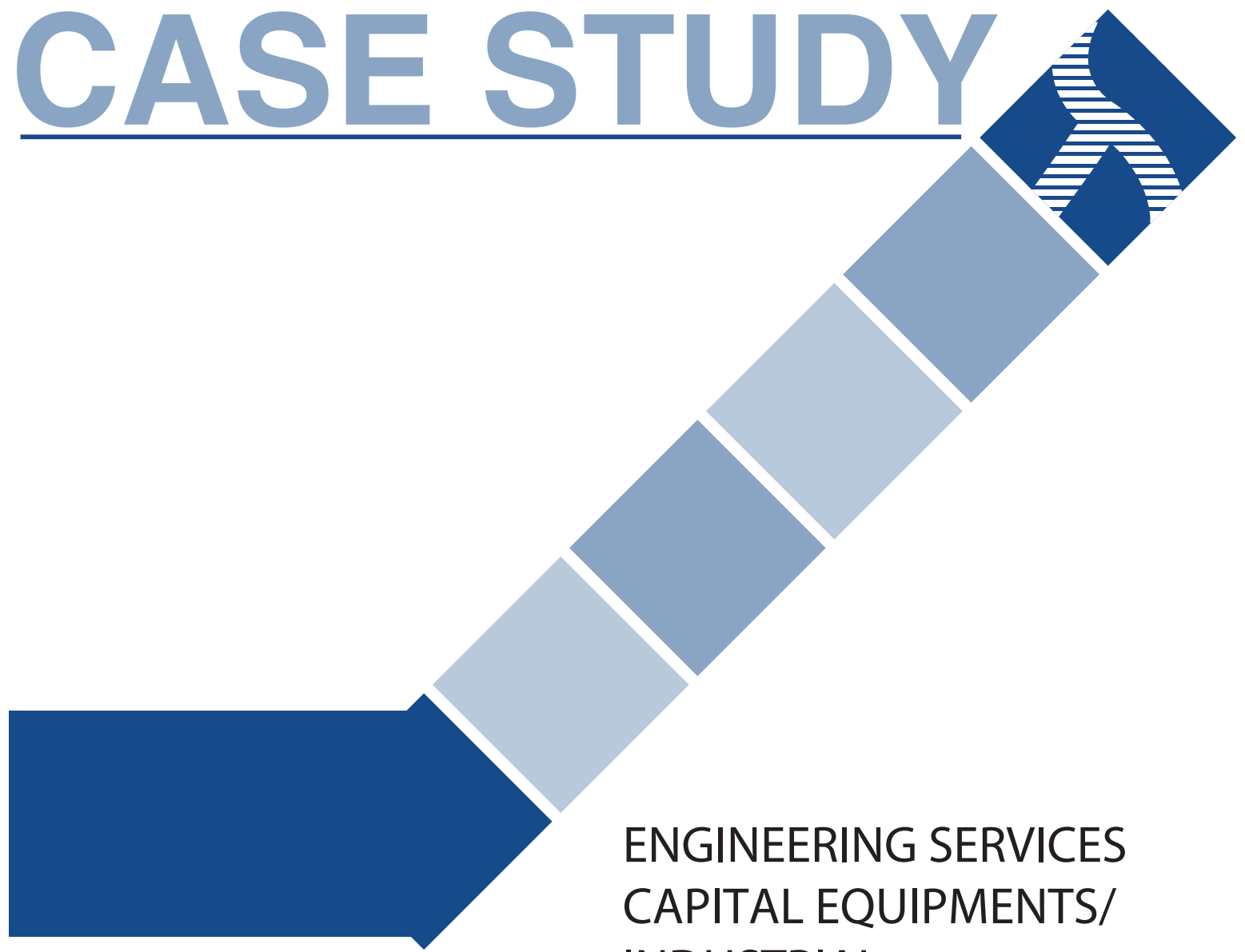


CASE STUDY



ENGINEERING SERVICES
CAPITAL EQUIPMENTS/
INDUSTRIAL

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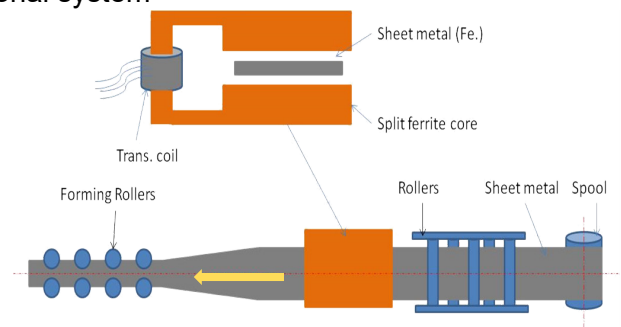
AUTOMATED SHEET WEIGH AND CUT SYSTEM

- ◆ 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



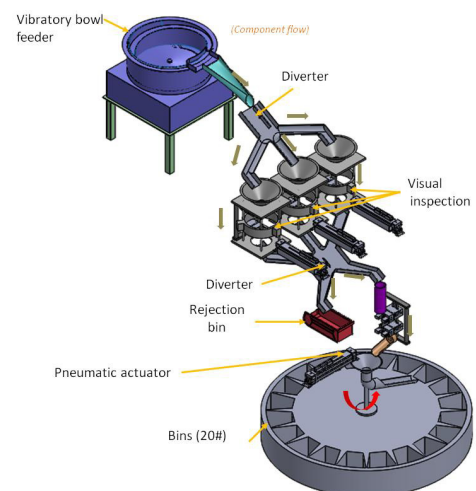
IN-LINE AUTOMATIC SWITCH INSPECTION SYSTEM

- ◆ 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.

