



ROBOTICS & AUTOMATION BUSINESS UNIT



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WCE is the company which provide unique services of Robotics &Automation technology and innovation. The company is strongly and continuously offer distinctive value to customers locally and globally. Over the 15 years of services to the customer engaged in the manufacturing industry, we deliver the service of the system integration from concept to completion , from architect to implement with the support from our partners as customers needed.

Capabilities

> 50

Resource
(persons)

>15

EXPERIENCE
(Years)

>1000

**DOMESTIC
JOBS**

>20

**OVERSEA
JOBS**

The scope of services included design, engineering, erection, testing, commissioning and handover of ;

- Welding Robot for Blower and Transformer Tank
- Field Instrument (Flow ,Pressure ,Level transmitter,etc)
- Computerize Gauge
- Electrical Drives
- PLC based process automation solution
- HMI and SCADA
- Trouble shooting service offsite and onsite
- Obsolescence Management

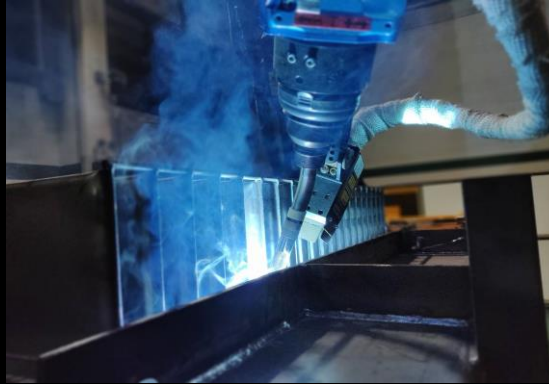
REFERENCES

Project:
Welding Robot for
Transformer Tank

Customer: Fuji Tasco, Thailand

Location: Samutprakarn ,
Thailand

Scope of work: Design &
Engineering ,Installation
&Commissioning, Performance
Test ,Training & Handover



REFERENCES

Project:
Revamp Robotics coil marking area down coiler 2

Customer: Sahaviriya, Thailand

Location: Prachuabkirikhan , Thailand

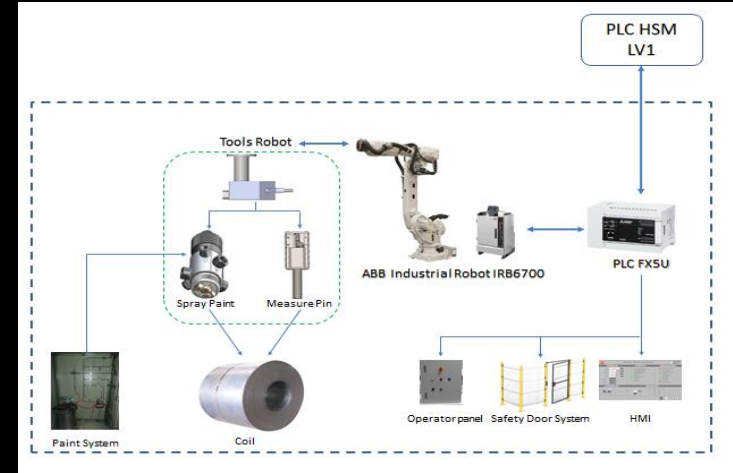
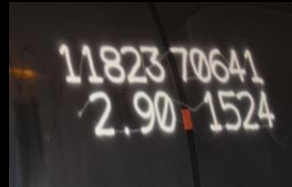
Scope of work: Design & Engineering ,Installation &Commissioning, Performance Test ,Training & Handover

Functional Description:

Marking machine for the hot strip mill is based on a standard industrial robot with - Measuring pin

- Nozzle marking head
- HMI
- Safety door system

to write the characters onto the flat face and circumference of the coil



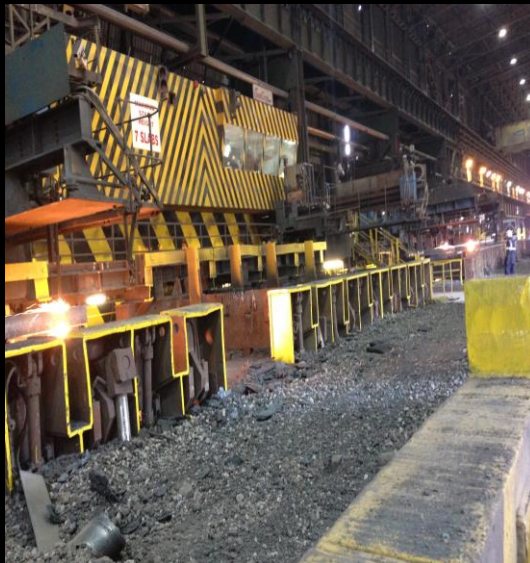
REFERENCES

Project:
Enchantment SLAB Slitting
Machine

Customer: SSI-UK, United
Kingdom

Location: Teesside, United
Kingdom

Scope of work: Design &
Engineering ,Installation
&Commissioning, Performance
Test ,Training & Handover



REFERENCES

Project:
**Skimming Vision System of
Desulphur. Station**

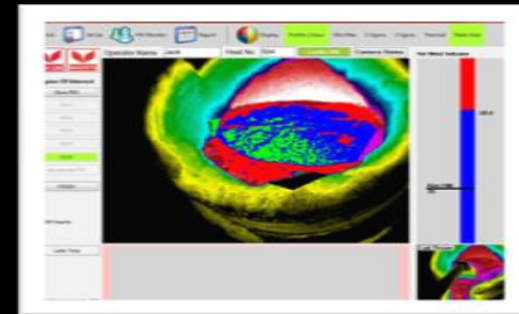
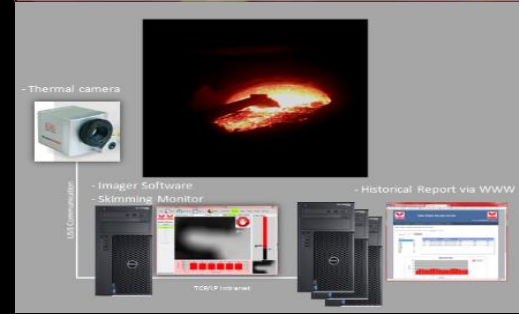
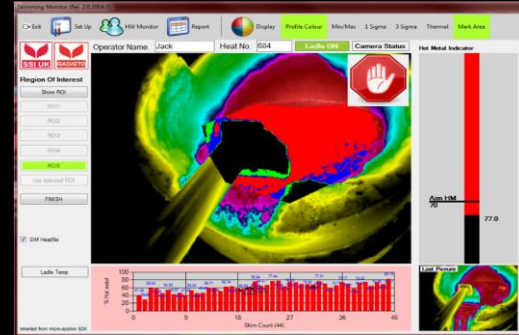
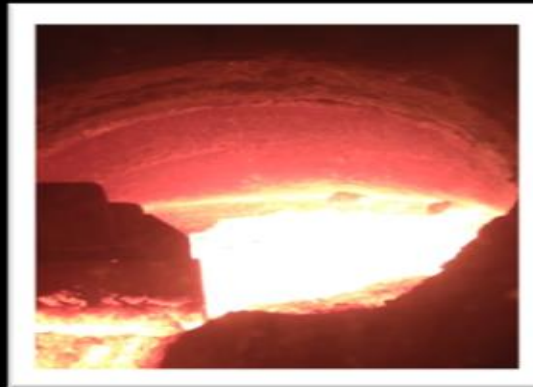
**Customer: SSI-UK, United
Kingdom**

**Location: Teesside, United
Kingdom**

**Scope of work: Design &
Engineering ,Installation
&Commissioning, Performance
Test ,Training & Handover**

Functional Description:

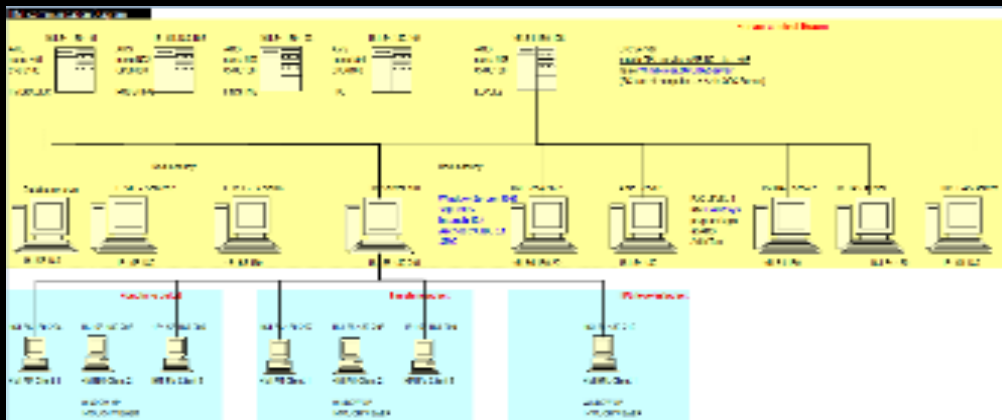
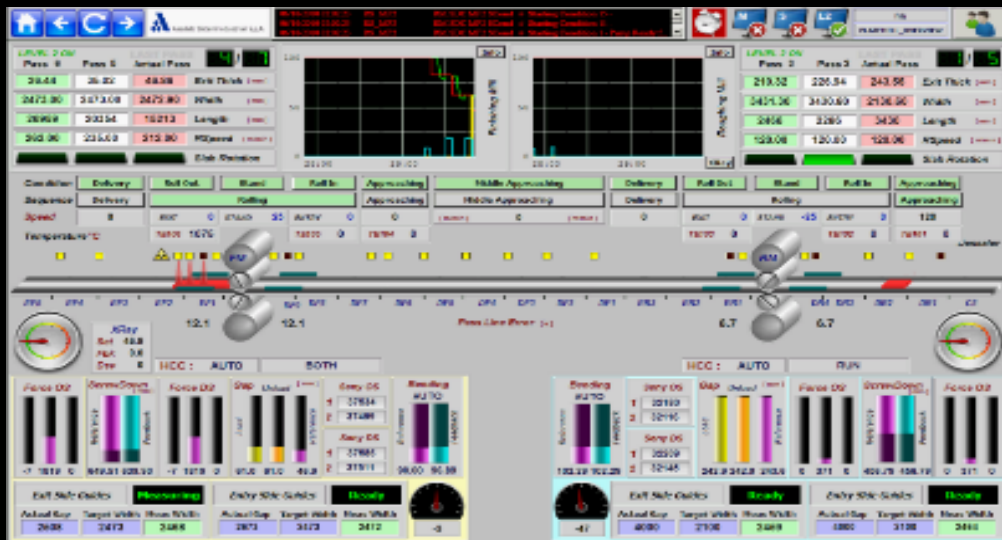
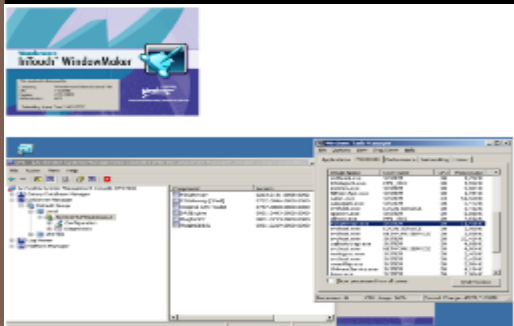
One of the most challenge in Basic Oxygen furnace steel making process is Sulfur removal from Hot metal and subsequent skim to remove Sulfur slag from the Hot metal ladle. To optimize between steel quality, yield and cost, WCE develop Skimming Vision System base on Vision Technology.



REFERENCES

Project:
Commissioning Service

Customer: Angang Plate Mill
Location: China
Scope of work: HMI pages
modification and
Commissioning



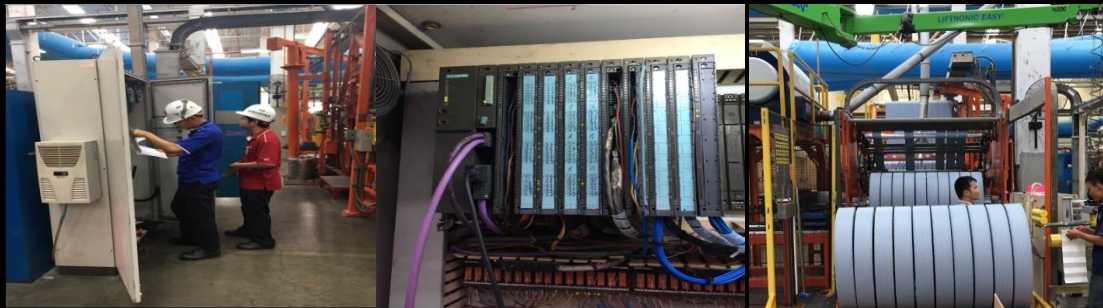
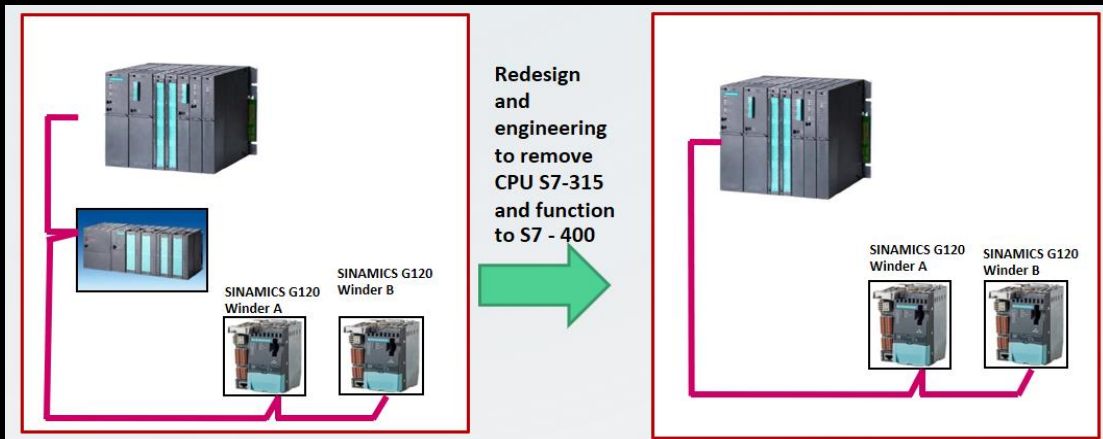
REFERENCES

Project: Upgrade Automation Control System of Single Un – winder Slitting

Customer: Daramic Thailand
Location: Prachinburi , Thailand
Scope of work: Design & Engineering , Installation & Commissioning, Performance Test , Training & Handover

Functional Description:

- Slitting M/C work as the battery separator as customer required in length, width.
- This Automation System control sequencing , Speed loop control , diameter calculation , etc



REFERENCES

Project: 1RC Install the inverter YASKAWA model G7 the scrap baller

Customer: TCRSS, Thailand
Location: Prachaupkirikhan , Thailand
Scope of work: Design & Engineering ,Installation &Commissioning, Performance Test ,Training & Handover

Functional Description:

- Revamp Yaskawa Inverter model G7: CIMR-G7A4045 (45KW) to CIMR-G7A4055 (55 KW)
- New Braking unit
- New Braking resistors



ระบบเก่า



ระบบใหม่



REFERENCES

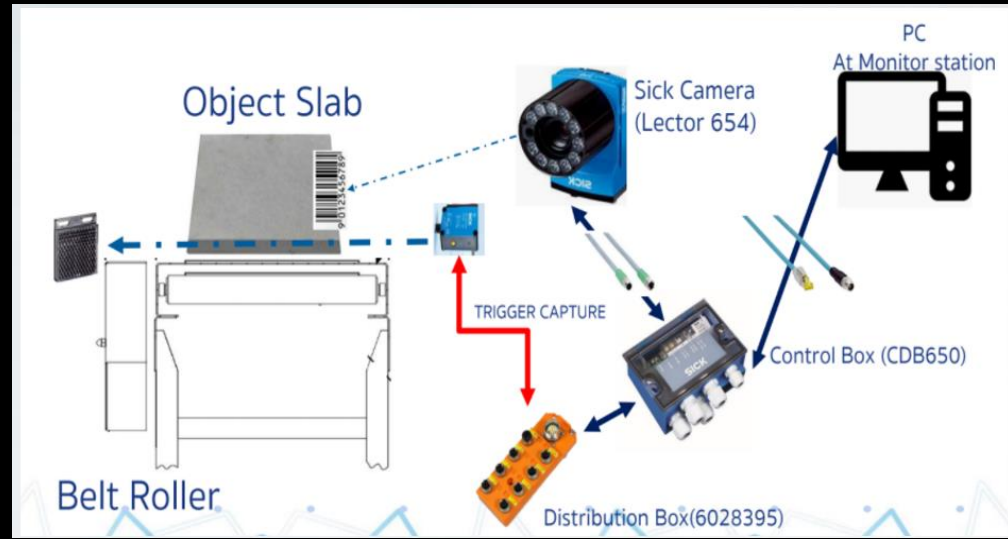
Project: : Image processing
Barcode Scanner

Customer: Sahaviriya, Thailand
Location: Prachaupkirikhan ,
Thailand

Scope of work: Design &
Engineering ,Installation
&Commissioning, Performance Test
,Training & Handover

Functional Description:

- This M/C used to produce a smooth surface, a uniform thickness, and reduce the yield point phenomenon.
- This Automation System to control sequencing , Speed loop control , diameter calculation , etc



REFERENCES

Project: : Establish plant performance report on web

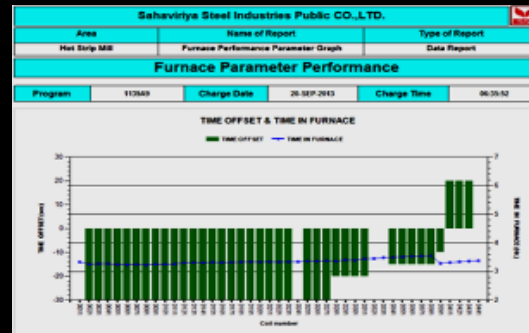
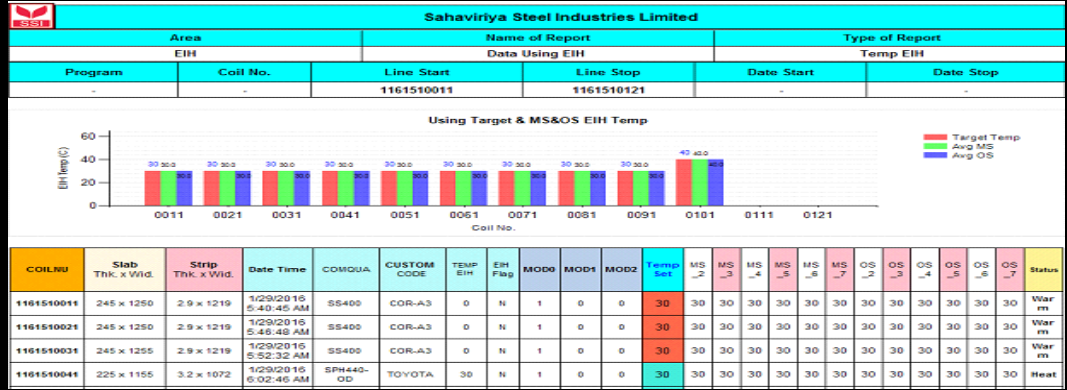
Customer: Sahaviriya, Thailand

Location: Prachaupkirikhan, Thailand

Scope of work: Design & Engineering ,Installation &Commissioning

Functional Description:

Production report to monitor and investigate rolling result.



REFERENCES

Project : Human Machine Interface Upgrading

Customer: Sahaviriya, Thailand

Location: Prachaupkirikhan ,
Thailand

Scope of work: Engineering, Install
and Commissioning

