



We engineer
your success



Scan Me!

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
ISO/IEC 17025:2017
Green Industry
ASME U,S,R,PP STAMP
MIT



Made in Thailand



U



PP



S



R



ISO 9001 : 2015



ISO 14001 : 2015



ISO 45001 : 2018



ISO/IEC 17025 : 2017



Green Industry



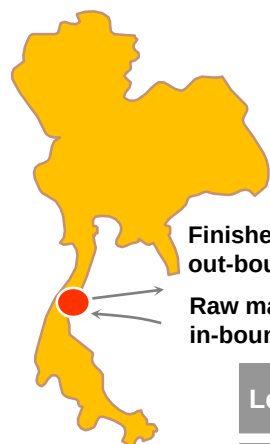
Green Industry



Green Industry

Prominent Flat Steel Producer in ASEAN

West Coast Engineering Co., Ltd. (WCE) is a subsidiary of the Sahaviriya Group, a major industrial enterprise comprising multiple affiliated companies.



Finished products
out-bound
Raw materials
in-bound



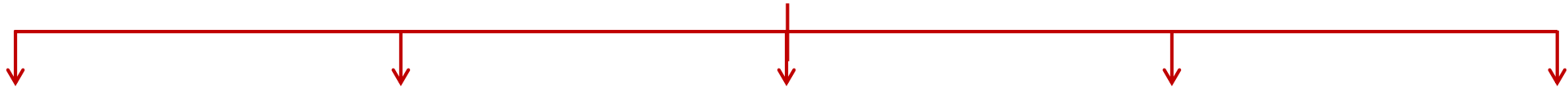
	PPC	SSI	TCRSS	SPM	SVL GROUP	WCE
Legal entity	Prachuap Port Co., Ltd.	Sahaviriya Steel Industries Plc.	Thai Cold Rolled Steel Sheet Plc.	Sahaviriya Plate Mill Co., Ltd.	SVL Corporation Limited	West Coast Engineering Co.,LTD.
Product range	 Support: deep-sea port	 Hot-rolled steel (pickled and oiled)	 Cold-rolled steel & Electro-galvanized	 Plate Mill	 Transportation	 Engineering & Maintenance Service
Capacity	100,000 dwt ¹⁾ , 14 mt. throughput	Hot Coil 4 mtpa ²⁾ CleanStrip® 1 mtpa ²⁾	1.2 mtpa ²⁾	5.0 mtpa ²⁾	3.5 mtpa ²⁾	-
Capital	12.72 MUSD (400 MB.)	137.38 MUSD (4,320 MB)	153.11 MUSD (4,816 MB.)	85.86 MUSD (2,700 MB.)	3.18 MUSD (100 MB.)	3.82 MUSD (120 MB.)

(Calculated using 1 THB = 0.0318 USD, exchange rate as of 25 December 2025)



Kittisak Mapanao

Managing Director (MD)



**Wansa
Wichit**

Maintenance Engineering
and Technology Business
Unit (MET)



**Kittiwut
Siriprompisan**

Machinery Technology and
Engineering Business Unit
(MTE)



**Chaovarat
Junpradub**

Construction Technology
and Engineering
Business Unit (CTE)



**Ratchata
Jirachotekamjorn**

Robotics and Automation
Technology and Engineering
Business Unit (RAT)



**Kajorn
Sivarungson**

Rail Technology
and Engineering
Business Unit (RTE)

OUR VISION & MISSION

VISION

Value for Industry, Government & Sustainable Society to be a leading-edge technology and engineering business, that meet the evolving needs of both the industrial and public sectors by creating value throughout the supply chain and contributing to a safer, more sustainable society.

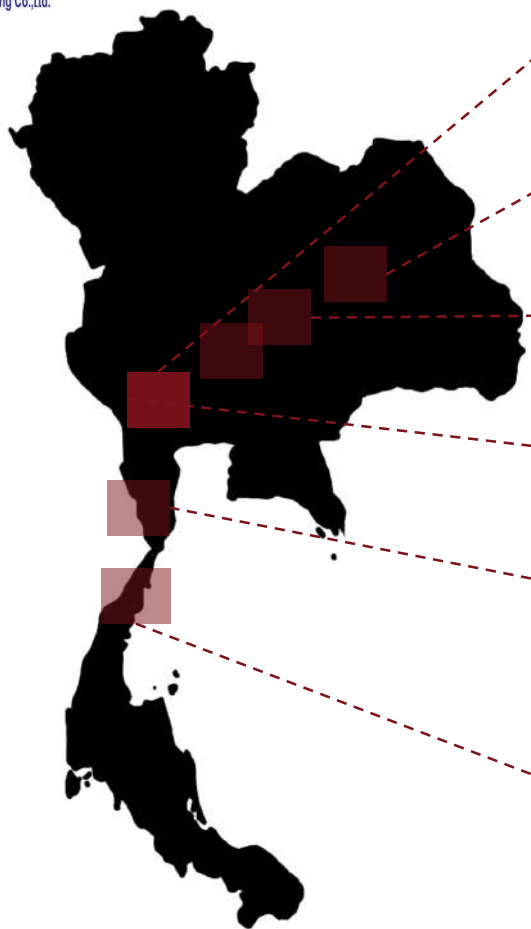
MISSION

1. Deliver engineering, maintenance, and technology solutions that enhance customer operational capability by improving productivity, reducing costs, increasing production efficiency, and applying innovation and advanced engineering technologies.
2. Build and expand sustainable business growth through effective resource management, operational excellence, and value-driven engineering services.
3. Strengthen organizational competitiveness by developing skilled personnel, engineering expertise, standardized systems, and advanced technologies, while reinforcing corporate governance, safety culture, and organizational resilience to support long-term growth.

COMPANY BACKGROUND

West Coast Engineering (WCE) was established in 1999 with a registered capital of 120 million baht. With over 20 years of extensive experience, WCE has been involved in diverse industries, including steel, paper, cement, energy, petrochemical, and various infrastructure systems, catering to both public and private sectors, both domestically and internationally.





Bangkok (Head Office)

Khon Kean (Sale Office)

Lopburi (Sale Office)

Kanchanaburi (Sale Office)

Ratchaburi (Sale Office)

Prachuap Khiri Khan
(Factory)

West Coast Engineering Company Limited (WCE)

is headquartered in Bangkok with a manufacturing facility in Prachuap Khiri Khan Province. The company has expanded its branch offices to various regions nationwide to enhance operational efficiency and deliver more comprehensive services to its customers.



OUR LOCATION

🏠 สำนักงานใหญ่

เลขที่ 16 อาคาร K&Y ชั้น 5 ถนนสุรศักดิ์
แขวงสีลม เขตบางรัก กรุงเทพฯ 10500

Headquarters Bangkok

16 K&Y Building 5 FL., Surasak Road,
Silom Sub-District, Bangrak District, Bangkok,
101500

🏭 โรงงาน ☎ : 032-906112-9

9/1 หมู่ 4 ถนนบ้านกลางนา – ยายพลอย
ตำบลแม่รำพึง อำเภอบางสะพาน
จังหวัดประจวบคีรีขันธ์

Factory

9/1 Moo 4, BanKlangNa – YaiPloy Road,
Maeramphueng, BangSaphan,
PrachuapKhiriKhan 77140

CONTACT US



Factory : +66 (0)32-906-112-9



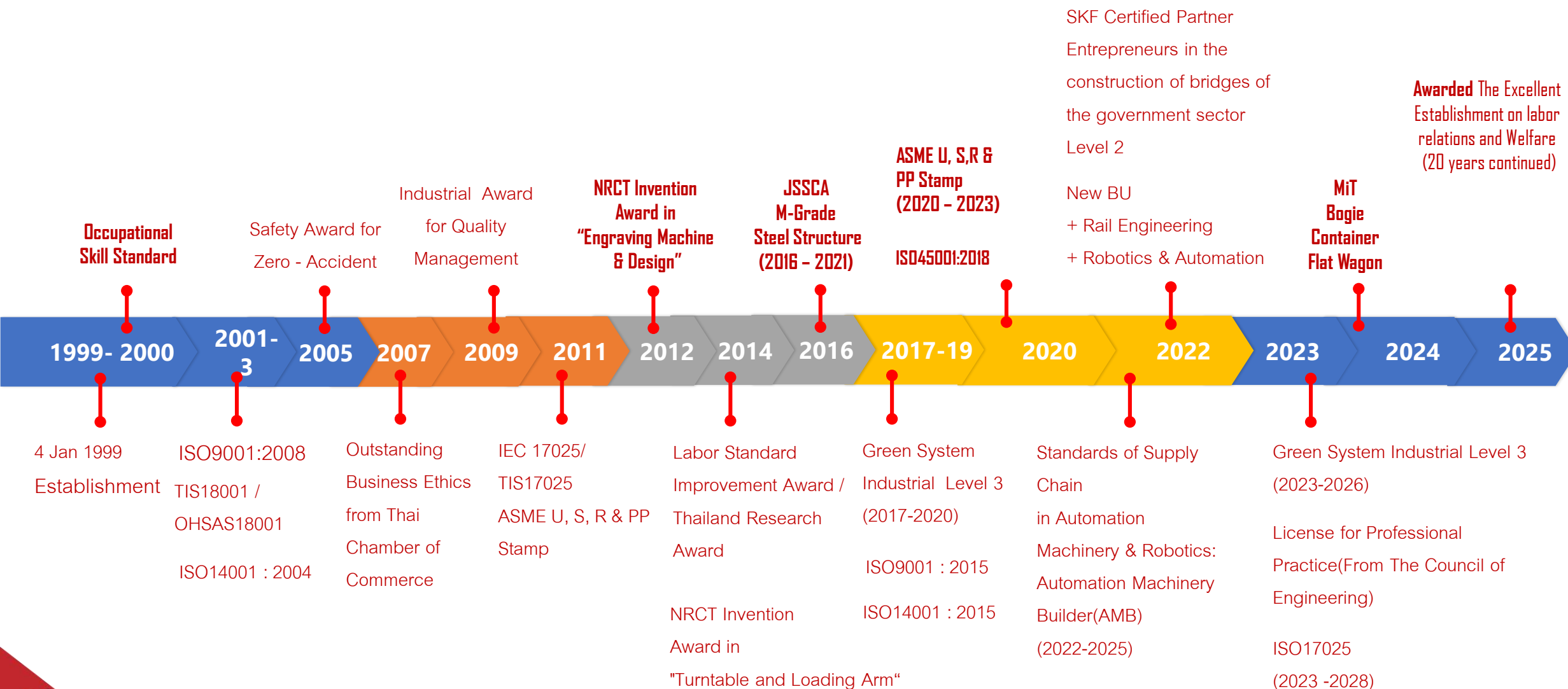
Head Office : +66 (0) 2234-9489



Website: www.wce.co.th



Email: international@wce.co.th



PRODUCT AND SERVICES



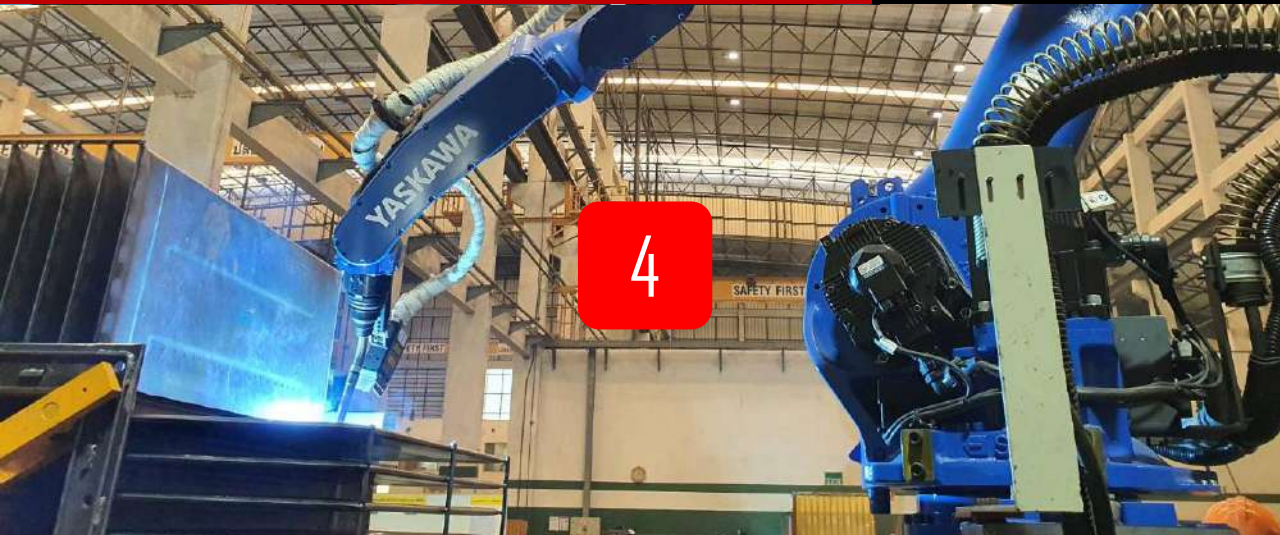
Maintenance Engineering and Technology Business Unit (MET)



Machinery Technology and Engineering Business Unit (MTE)



Construction Technology and Engineering Business Unit (CTE)



Robotics and Automation Technology and Engineering Business Unit (RAT)



Rail Technology and Engineering Business Unit (RTE)

5 Business Units

1 Maintenance Engineering and Technology Business Unit (MET)	2 Machinery Technology and Engineering Business Unit (MTE)	3 Construction Technology and Engineering Business Unit (CTE)	4 Robotics and Automation Technology and Engineering Business Unit (RAT)	5 Rail Technology and Engineering Business Unit (RTE)
Develops and delivers comprehensive maintenance engineering services under long-term maintenance contracts and operational support agreements. Scope of services includes preventive, predictive, corrective, and emergency maintenance, as well as onshore and offshore operations. Services are executed through systematic maintenance planning, application of appropriate engineering technologies, and utilization of high-efficiency tools and equipment. The business unit is supported by certified engineers and skilled technicians, including international manpower resources, to ensure operational continuity, service reliability, and compliance with applicable engineering and safety standards across diverse industrial sectors.	Focuses on machinery technology and engineering solutions aligned with international standards to support core industrial operations. Services cover equipment design review, engineering analysis, condition monitoring, overhaul, repair, modification, and performance improvement of machinery systems. The business unit emphasizes asset reliability, risk reduction from equipment breakdown, and extension of equipment life cycle. Through advanced engineering capabilities and technical expertise, it supports continuous customer operations, expands specialized machinery services, and enhances overall service performance to ensure long-term business stability and sustainable growth.	Construction technology solutions covering consulting, design, procurement, fabrication, assembly, installation, testing, and maintenance of bridges and infrastructure made of steel and other metal structures, including automotive bridges, railway bridges, and pedestrian overpasses. Construction technology solutions covering consulting, design, procurement, fabrication, assembly, installation, testing, maintenance, as well as dismantling, removal, relocation, reassembly, installation, and re-commissioning of industrial plants, machinery, and production processes. Construction technology solutions covering consulting, design, procurement, fabrication, assembly, installation, testing, and maintenance of renewable energy systems based on solar power.	Providing consulting, design, manufacturing, installation, testing, and maintenance services for industrial automation systems—including process and machine control, instrumentation and control, product testing, and motor control systems—as well as modernization and upgrades of outdated automation systems. Comprehensive construction technology solutions for automated warehouses, covering consulting, design, procurement, manufacturing, assembly, installation, testing, and maintenance. Our services include automated inbound and outbound handling systems using crane-based operations, prefabricated steel buildings, and steel structures for storage racking systems. Robotic solutions for material handling and metal welding, including robotic welding systems for power transformers, robotic welding for industrial fan blades, and robotic systems for handling steel plates of various thicknesses.	Design and manufacture of bogie container, passenger cars, flat wagons, locomotives, and spare parts. In addition to providing as a sales representative. Repair, overhaul, and upgrade rolling stock includes passenger cars, flat wagons, locomotives, and spare parts. A skilled technician contract for maintenance work, including the provision of equipment and other necessary items along with a railway maintenance management system. Provides project services and technology solutions for non-rolling stock items, such as: Gantry Crane, Overhead Crane, Load Box for locomotive generator testing, Traversers, Turntables, Wheel lathes, Depot Facilities.



01

Maintenance Engineering and Technology Business Unit (MET)

Strategic and efficient management of personnel, budget, and equipment to deliver high-quality, safe engineering and maintenance services. Integrated solutions focus on equipment reliability, minimized downtime, and sustainable growth through technology advancement and strategic partnerships.

Maintenance Engineering and Technology Business Unit (MET)

1. Maintenance Contract

Our performance-based maintenance contract services help you manage the through-life costs of your assets. Clearly defined performance indicators and managed risk transfer ensure that you only pay for solutions that benefit your operations

We flexible long-term contract services provide a range of technical and commercial options.

- ✓ Contract Skilled Supply Services
- ✓ Mobile Skilled Supply Services
- ✓ Mobile Machine Services

- Mechanical / Fluid
- Electrical
- Industrial Vehicle
- Inspection / NDT

2. Specific Maintenance

We operate this services 24/7 to meet customer needs whenever and wherever required. It is supported by highly skilled and experienced workforce with well tools, equipment and workshop. We bring our team and resource to deliver the services anywhere you need in time and cost

- Major, Annual, Periodical
- Emergency Shutdown
- Maintenance Job Services



Maintenance Engineering and Technology Business Unit (MET)

Long - Term Maintenance Contract Service

We provide maintenance management and repair services for industrial machinery, offering skilled technicians specializing in mechanics, hydraulics, electrical systems. We also offer maintenance planning services to our clients through long-term contracts ranging from 1 to 5 years.

Maintenance Contract Service		
Customer	Manpower (Man)	Contract (Year)
SSI	172	3
TCRSS	95	3
SKIC-BP	179	4
SKIC-WS	169	4
PPPC	115	1
Betagro	32	3
Summary	762	-

Plant Maintenance Service (Shut Down)

- SSI
- TCRSS
- G-Steel
- GJ Steel
- Posco Thainox
- SCG Group (Paper & Cement)
- TATA Steel
- Betagro
- Lenzing

Total 80 Man



Maintenance Engineering and Technology Business Unit (MET)

Project: Maintenance Contract Service

Customer: Sahaviriya Steel Industries Public Company Limited

Location: Bang Saphan , Prachuap Khiri Khan Province

Capacity : Up to 1,500 M-D Manpower

Scope of Work : Furnace ,Milling line ,Electrical distribution ,Water Treatment ,heavy vehicles



Project: Maintenance Contract Service

Customer: Siam Kraft Industry Company Limited

Location: Ratchaburi Province

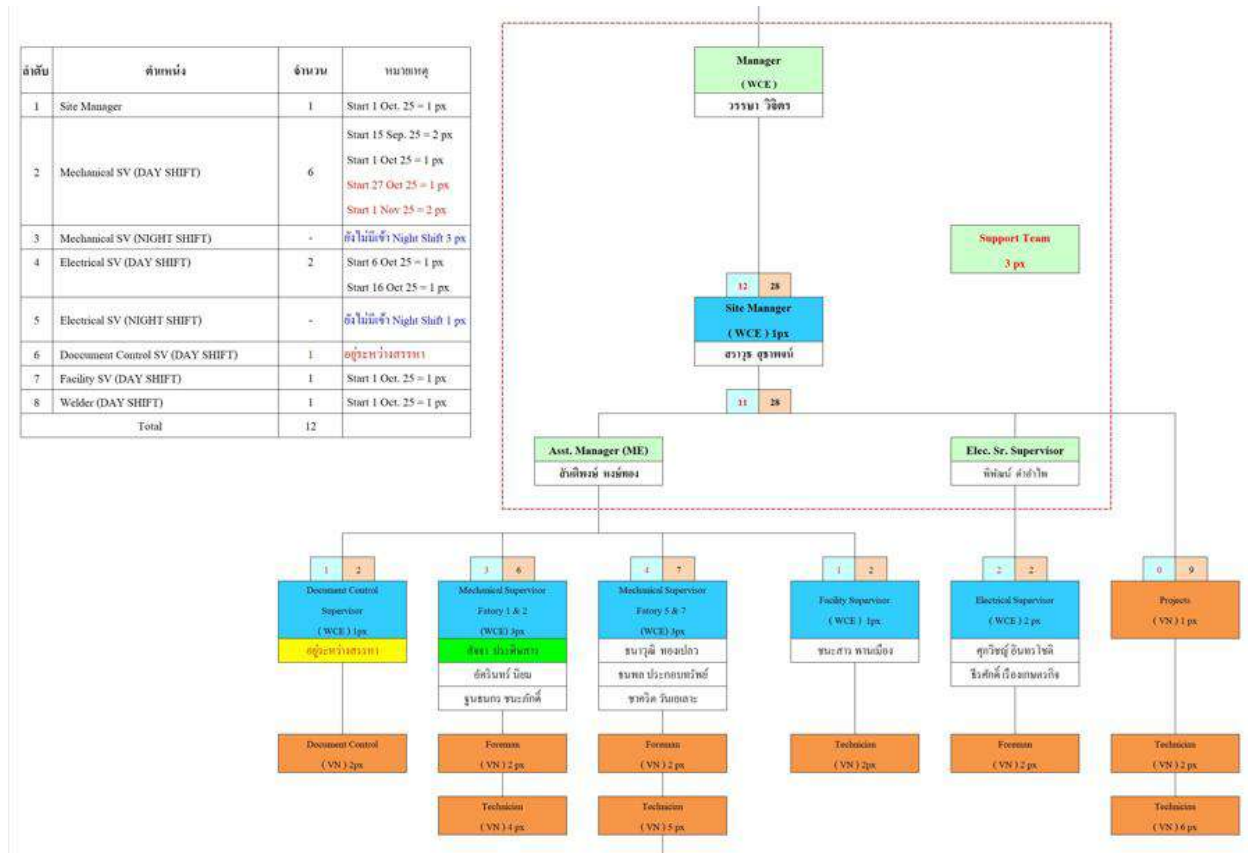
Capacity : 300 M-D Manpower

Scope of Work : Pickling , Coupled Pickle / Tandem Cold Mill, Batch-type Annealing Furnaces, Temper Mill / Recoiling Line



Maintenance Engineering and Technology Business Unit (MET)

Project: Maintenance Contract Service
Customer: VENINE CABLE ELECTRIC WIRE COMPANY LIMITED
Location: Phra Nakhon Sri Ayutthaya Province
Capacity : 13 Manpower
Scope of Work : Maintenance PM,CBM, Planning, Welding





02

Machinery Technology and Engineering Business Unit (MTE)

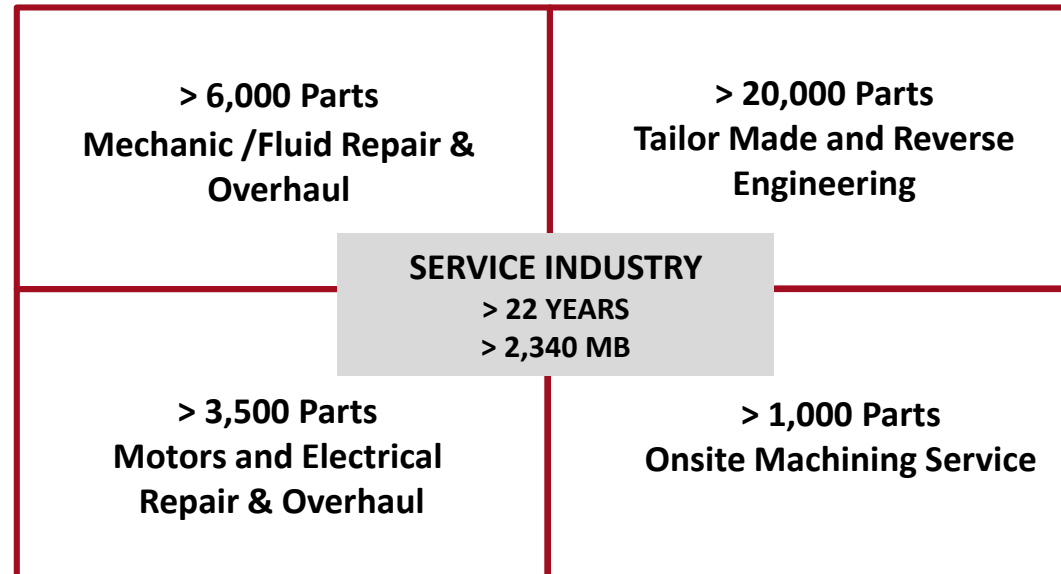
Services include design, repair, upgrade, and manufacturing of machinery and components related to mechanical, fluid, and electrical systems, as well as providing inspection, measurement, testing, and calibration services relevant to the industrial sector.

Machinery Technology and Engineering Business Unit (MTE)

“ With the experience in manufacturing and repair overhaul mechanical parts with modern machinery for more than 22 years, covering various industries in THAILAND and abroad ”

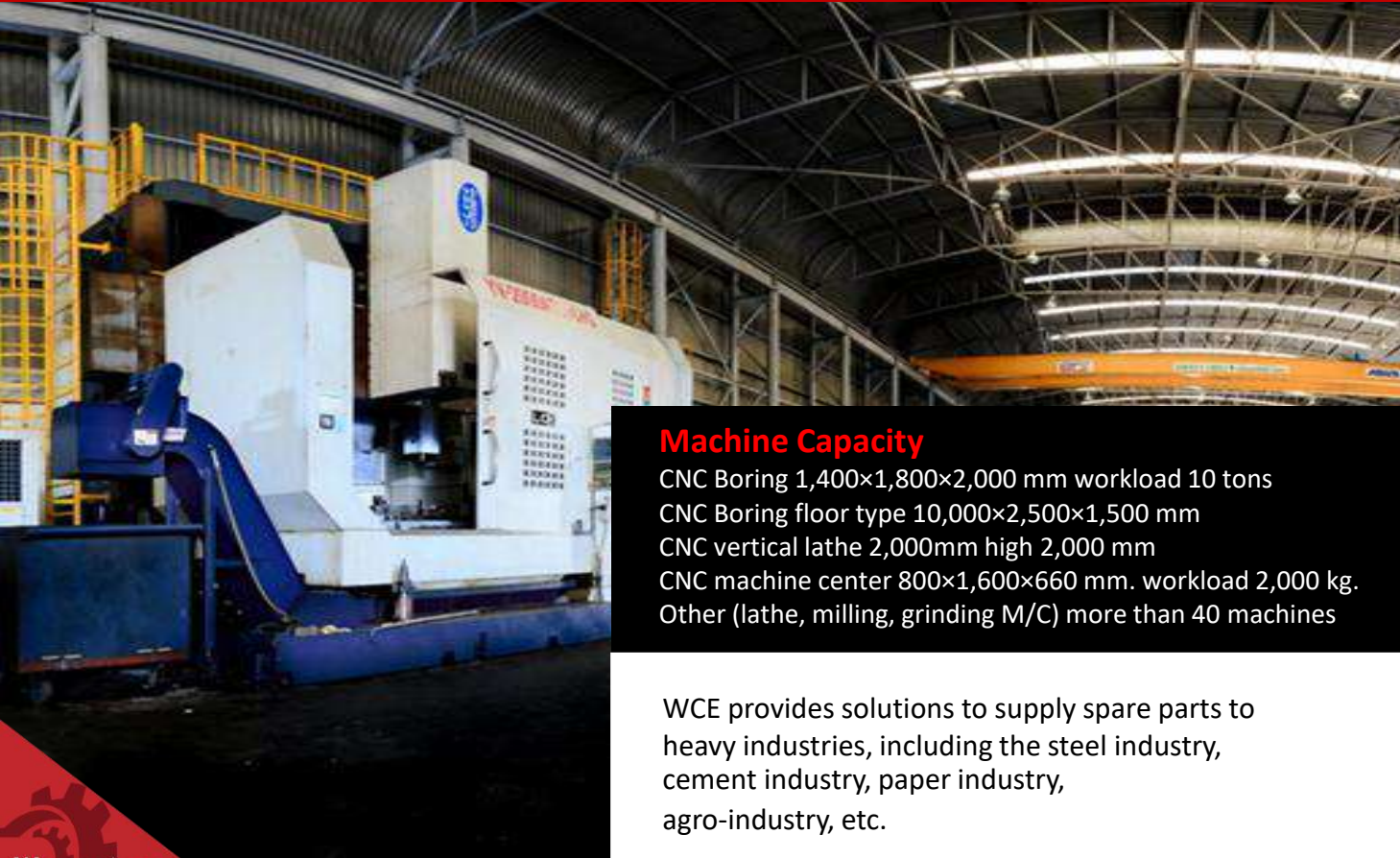
Such as

- The Steel industry
- Energy
- Cement
- Paper
- Chemical
- Food
- others industry



Machinery Technology and Engineering Business Unit (MTE)

1. Machinery and part supply



CNC Vertical Lathe



CNC Milling Double Column



CNC Boring Floor Type Machine



CNC Center Machine



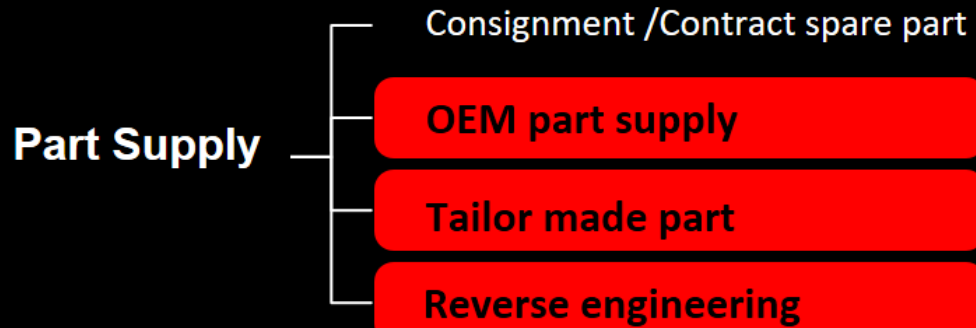
CNC Boring Machine



CNC Engraving Machine

Machinery Technology and Engineering Business Unit (MTE)

1. Machinery and part supply



Tailor Made Part: Rod Head Client: Cement Plant

- Repair Rod Head
- Chemical Composition Analysis
- Material Selection
- Engineering Drawing
- Manufacturing

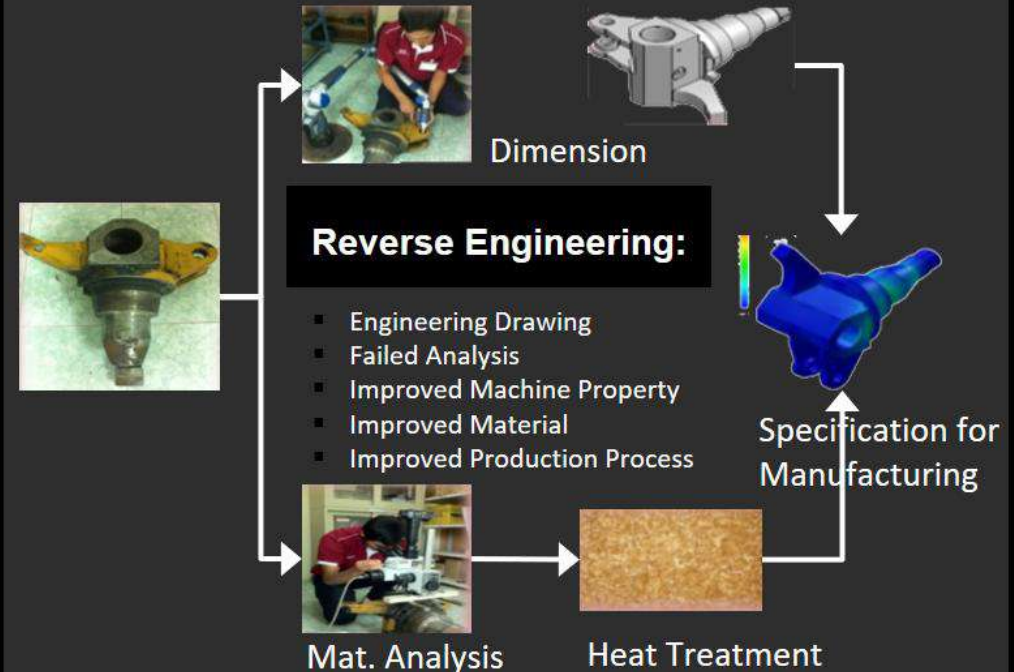
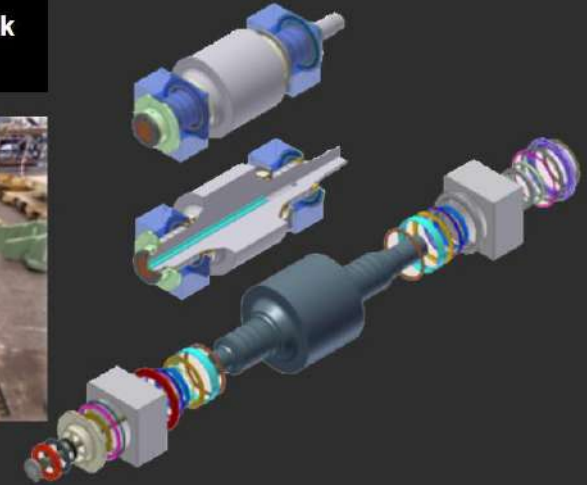


Original



New

OEM Part: Work Roll Shock Client: SSI



Machinery Technology and Engineering Business Unit (MTE)

Industrial Part Supply



Sleeve of Inlet Valve Stem



Jig for Seal ring housing Row#4



Wearing Diffuser
CWP BPK-T03



Shaft Mix6.



Tooth Ring Mix5



Rod Head, Dwg.No.07-3710-015



Safety Handrails for DOZERS



STICK EXCAVATOR (Terex)



FRAME TRACK, RH & LH



988 Wheel loader cutting edges
LIPS



Grouser Bar



Machinery Technology and Engineering Business Unit (MTE)

2. Mechanical and electrical repair overhaul Service

WCE provide solution for repair and overhaul industry machinery and expertise for recondition & recovery steel industries machine.

General Repair and Overhaul

- Mechanical Overhaul and Service
- Fluid Overhaul and Service
- Electrical Overhaul and Service

Specific Repair and Overhaul

- Mandrel Overhaul and Service
- Hydraulic Capsule Overhaul and Service
- Gear/Gear Box Overhaul and Service
- HYD/Pump/Valve Overhaul and Service
- Wear Part Mechanical Overhaul and Service
- Motor Overhaul and Service



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Machinery Technology and Engineering Business Unit (MTE)

Special Tools



Laser Scanner 3D

Faro Focus Plus 150

- Ranging Unit : 153m @ 2 million point/Sec
- Color Resolution : Up to 165 megapixel color
- HDR Camera
- Field of view : 300° Vertical / 360° Horizontal



Faro Laser Tracker



Faro Arm with Laser Lines Probes

- 8 AXIS System
- Measurement range : 2.7 M
- Accuracy : 0.02 mm
- Laser Probe Accuracy : 0.025 mm
- Repeatability: 0.025 mm



Dye Penetrant Kit



Y-1 Yoke
230V/50-60Hz, 3.7max
amp draw



**Ultrasonic
thickness gauge**

Support Equipment



**USM Go Ultrasonic
Flaw Detector**



**Portable Surface
Roughness Tester**



**Microstructure
Testing**



Welding Gauges



**Metal Hardness
Tester**



Hardness Tester



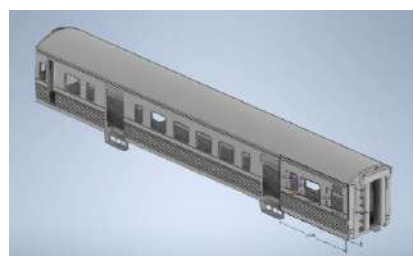
Hand held UV lamps



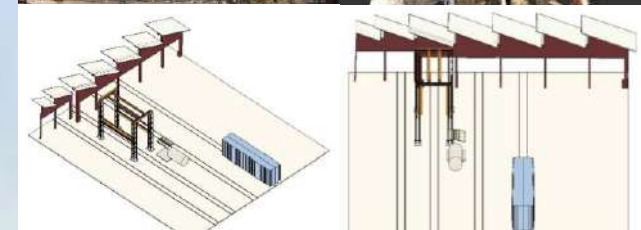
**Dry Film Thickness
Gauges**

Machinery Technology and Engineering Business Unit (MTE)

3D Inspection



Site Survey & Re-Locations Gentry Crane



Machinery Technology and Engineering Business Unit (MTE)

Project: Inspection & Overhaul Gearbox

Customer: Metso (Thailand) Limited

Scope of work: Inspection, change shaft and gear, change bearing and seal, assembly and inspection

Year: 2025

Project: Overhaul Gearbox

Customer: TATA Steel (Thailand) Public Company Limited

Scope of work: Dismantle, inspect/repair damaged bearing pedestal through painting and M/C/assembly and test.



Machinery Technology and Engineering Business Unit (MTE)

Project: OVERHAUL VERTICAL CENTRIFUGAL PUMP

Customer: Sahaviriya Steel Industries Public Company Limited

Scope of Work: Inspection, Repair & Change Pipe, Change Shaft, Change bearing and Seal, Assembly and Inspection

Year: 2025



Project: MCL2 Repair Hot Bridle Bidding Repair Roller (Welding Repair)

Customer: NS BlueScope (Thailand) Limited

Scope of Work: Repair, change the flange 1 side, and connect the shaft shoulder Dynamic balance



03

Construction Technology and Engineering Business Unit (CTE)

Providing engineering design, procurement, construction, installation and testing services until ready for use. O&M service, consulting service and turnkey contracting project services

Construction Technology and Engineering Business Unit (CTE)

Bridge and Infrastructure Solution Business Unit (BIS)

- Steel Bridge
- Infrastructure - Steel Piping

Industrial Plant and Machinery Solution Business Unit (PMS)

- Plant and Machinery Erection
- M&E

Alternative and Renewable Energy Solution Business Unit (ARS)

- Solar
- Waste to Energy

Steel Fabrication Solution Business Unit (FSS)

- Steel Structure
- Mechanical Equipment
- Heavy Equipment
- Pressure Part



Providing

- engineering design procurement
- construction
- installation and testing services until ready for use.
- O&M service
- consulting service and turnkey contracting project services



Construction Technology and Engineering Business Unit (CTE)

Bridge and Infrastructure Solution Business Unit (BIS)

Project: **Steel Arch Bridge 80 M. (Arch)**

Location: Phitsanulok Province, Thailand

Customer: Department of Rural Road. (DRR)

Year: 2022



Construction Technology and Engineering Business Unit (CTE)

Bridge and Infrastructure Solution Business Unit (BIS)

Project: Steel Bridge 50m., 56m. (4Bridges)

Location: Phetchaburi province, Thailand

Customer: Stecon Group Public Company Limited

Scope of Work: Material supply, Fabrication, Assembly, HDG and Installation



Construction Technology and Engineering Business Unit (CTE)

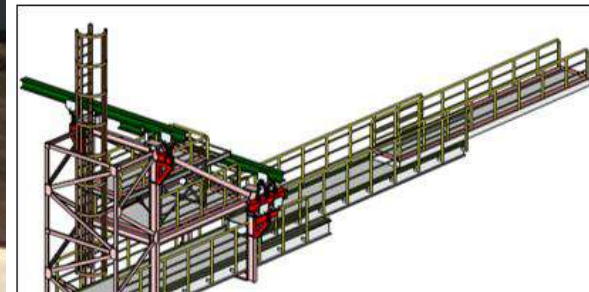
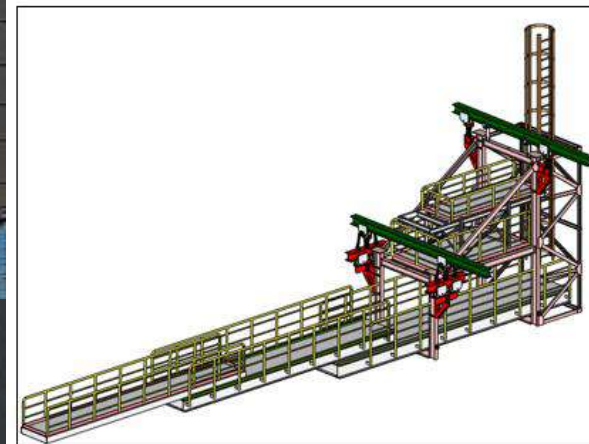
Bridge and Infrastructure Solution Business Unit (BIS)

Project: Gantry crane under Rama IX bridge project.

Location: Bangkok Province, Thailand

Customer: Expressway Authority of Thailand.

Scope of Work: Engineering design, fabrication, and erection, testing, and commissioning.



Construction Technology and Engineering Business Unit (CTE)

Industrial Plant and Machinery Solution Business Units (PMS)

Project: Indoor Coil Yard Phase B

Customer: Sahaviriya Steel Industries Public Company Limited

Scope of Work: Design, assembly, and installation of new structures.



Construction Technology and Engineering Business Unit (CTE)

Industrial Plant and Machinery Solution Business Units (PMS)

Project: Turntable and loading arm.

Customer: Italian-Thai development public company limited

Scope of Work: Engineering design, fabrication and erection, testing, and commissioning max. load 5,000 tons.

Project: SKIC Banpong coal warehouse, and coal handling system.

Customer: Siam Kraft Industry Co., Ltd.

Scope of Work: Engineering design, erection, fabrication, installation, testing, and commissioning total weight: 1,000 tons.



Construction Technology and Engineering Business Unit (CTE)

Alternative and Renewable Energy Solution Business Units (ARS)

Project: **Solar Rooftop for Bangsaphan Hospital (Capacity 100 kWp)**

Customer: Bangsaphan Hospital

Scope of Work: Solar PV – Monocrystalline, Inverter - On Grid String Inverter

Engineering

Design

solar cell system, solar rooftop, electrical work and civil work

Procurement

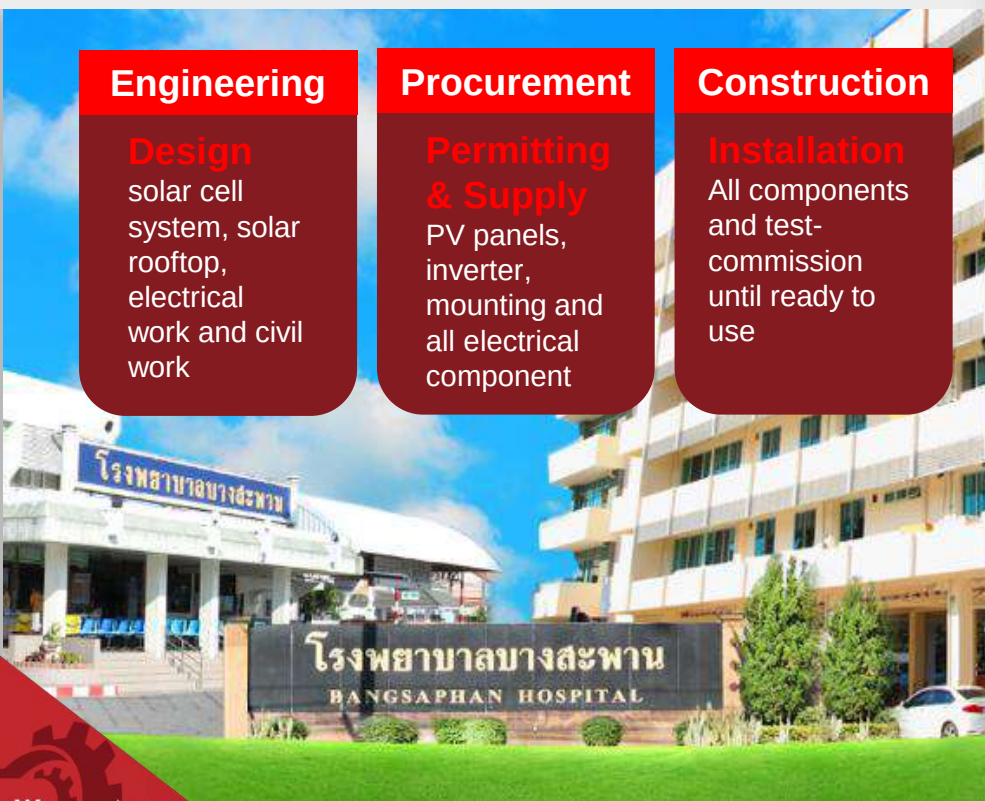
Permitting & Supply

PV panels, inverter, mounting and all electrical component

Construction

Installation

All components and test-commission until ready to use



Construction Technology and Engineering Business Unit (CTE)

Alternative and Renewable Energy Solution Business Units (ARS)

Project: **Solar Rooftop for TCRSS – Bang Saphan (Phase 1: Capacity 650 kWp)**

Customer: Thai Cold Rolled Steel Sheet Public Company Limited

Scope of Work: Energy production : 950,460 kWh/y Capacity : 650 kWp IRR : 20.0%
Electricity Saving : 3.5 MB/y Technology : Solar PV – Monocrystalline, Inverter – On Grid Smart Inverter Expected investment : Feb 2021



Construction Technology and Engineering Business Unit (CTE)

Steel Fabrication Solution Business Units (FSS)

- Steel Structure
- Mechanical Equipment
- Heavy Equipment
- Pressure Part

OUR CERTIFICATES & ACCREDITATION



2011 ASME U,S,R & PP STAMP

2016 JSCA
M-Grade Steel Structure

Construction Technology and Engineering Business Unit (CTE)

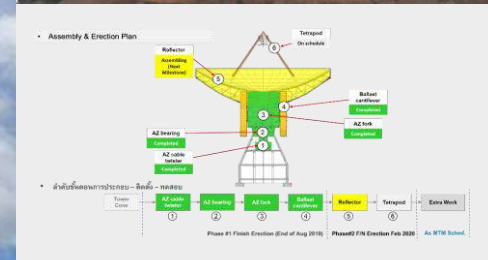
Steel Fabrication Solution Business Units (FSS)

Project: Radio Telescope Diameter 40m.

Customer: MT Mechatronics GmbH

Location: Chiang Mia province, Thailand

Scope of work: Material supply, Fabrication, Assembly, Erection and commissioning



Construction Technology and Engineering Business Unit (CTE)

Steel Fabrication Solution Business Units (FSS)

Project: Tank for Fiberboard Project

Customer: Shaiyo Triple Company Limited

Location: Prajinburi province, Thailand

Scope of work: Design / Material supply / Fabrication / Machine / Assembly / Erection



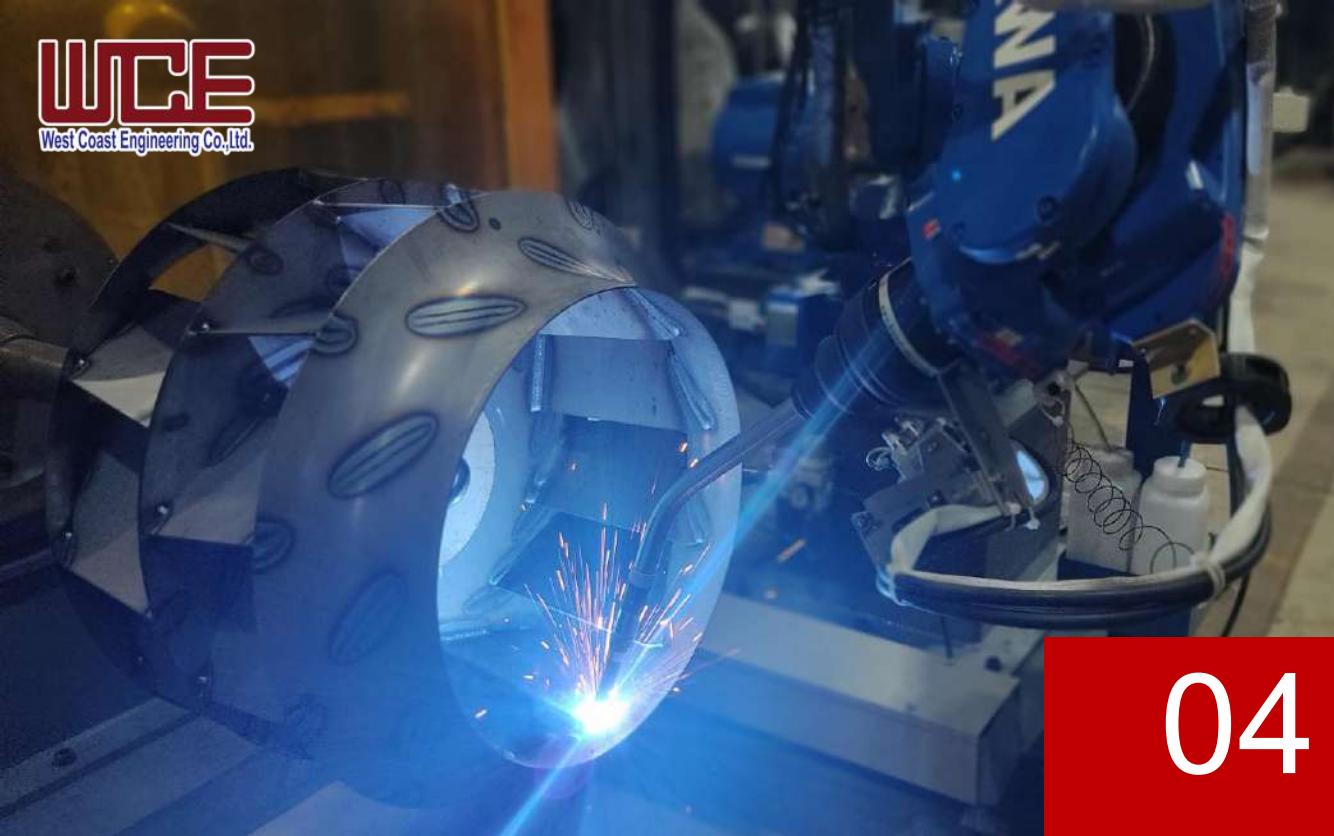
Construction Technology and Engineering Business Unit (CTE)

Steel Fabrication Solution Business Units (FSS)

Project: DEPOT Stabling Building for MRTA Green Line Extension.
Customer: MKK Asia Company Limited
Location: Rayong province, Thailand
Scope of work: Material supply, Fabrication, Assembly, Sand Blast and Painting, Installation

Project: DEPOT Stabling Building for MRTA Green Line Extension.
Customer: Premier Canning Industry Company Limited (PCI)
Location: Samutprakarn Province, Thailand.
Scope of work: Material supply, fabrication work, and Installation.





04

Robotics and Automation Technology and Engineering Business Unit (RAT)

The services provided by RAT unit cover the entire process from engineering design, procurement, installation, testing, to user training, with comprehensive solutions capable of meeting diverse needs, along with advanced security systems.

"Innovative Automation, Transformative Production"

Robotics and Automation Technology and Engineering Business Unit (RAT)

The services provided by RAT unit cover the entire process from engineering design, procurement, installation, testing, to user training, with comprehensive solutions capable of meeting diverse needs, along with advanced security systems.

Total Automated Warehouse Solutions

- A comprehensive business for the construction and installation of fully automated warehouse systems
- Pre-engineered warehouse buildings
- Automated storage and retrieval cranes
- Automated guided vehicles (RGV, AGV)
- Steel racking and storage structure systems
- Warehouse execution and management software (WEMS)
- Consulting and engineering design services
- Maintenance, repair, and system upgrading services
- Inspection and certification of machinery operation by licensed professional engineers

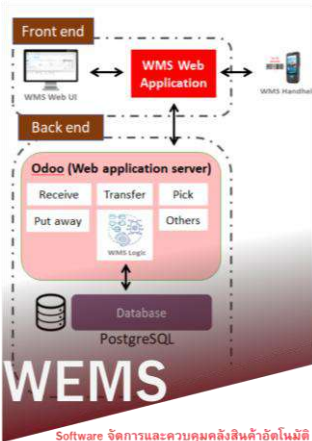
Industrial Automation Solutions

- Conversion of production lines to automated systems
- Process improvement and problem-solving through automation systems
- Risk management for obsolete automated process control equipment
- Authorized distributor of industrial automation systems such as Siemens, Rockwell, ABB, etc.
- End-to-end solutions for Continuous Emission Monitoring Systems (CEMS)
- Industrial product quality inspection and testing systems (Industrial Tester)
- Smart Factory systems
- Smart Monitoring Systems

- ✓ Enhance operational efficiency
- ✓ reduce costs, and save time
- ✓ Benefit from industry-specific expertise
- ✓ User-friendly interfaces, customizable designs tailored to your needs

Industrial Robotic Solutions

- Smart Welding Robotic Solutions
- Smart Handling Robotic Solutions
- Feasibility assessment services for implementing robotics in production lines
- Robotics operation and maintenance training services
- Programming and teaching services for industrial robotic applications
- WCE – MELSOFT Gemini: 3D simulation software for factory automation systems



Robotics and Automation Technology and Engineering Business Unit (RAT)

1. Industrial Automation Solution (Steel and Others)
Business Unit (ASS)
2. Industrial Automation Solution (Automotive)
Business Unit (ASA)
3. Total Automated Warehouse Solution Business Unit (AWS)
4. Smart Handling Robotics Solution Business Unit (HRS)
5. Smart Robot Welding Solution Business Unit (RWS)



One stop service

The services provided by RAT unit cover the entire process from engineering design, procurement, installation, testing, to user training, with comprehensive solutions capable of meeting diverse needs, along with advanced security systems.

Robotics and Automation Technology and Engineering Business Unit (RAT)

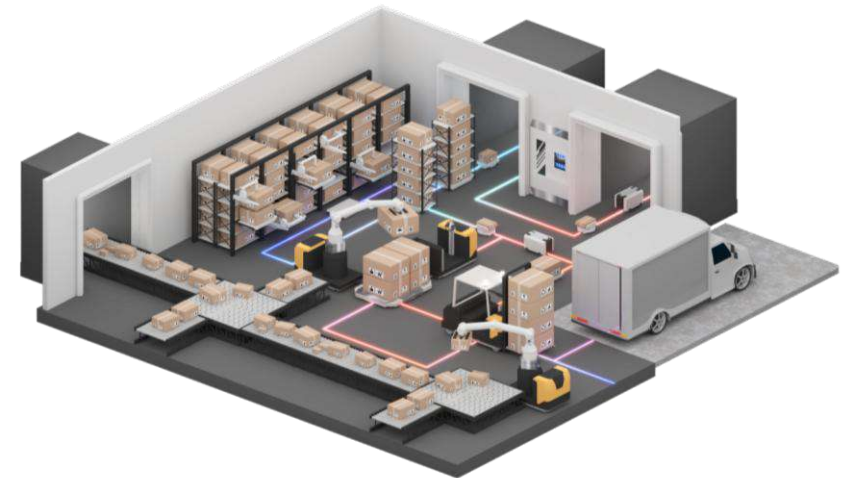
Total Automated Warehouse Solutions (AWS)



We provide **comprehensive automated warehouse design and implementation services**, tailored to meet your warehouse needs. From warehouse construction and rack design to capacity optimization, our solutions focus on maximizing efficiency and cost-effectiveness. Our offerings include Warehouse Management System (WMS) that utilize the most suitable technology for each client. These solutions are designed to enhance operational performance, reduce costs, and provide seamless integration with ongoing support. Clients can rely on our all-Thai team for training, after-sales service, and long-term maintenance, ensuring smooth and efficient operations for their automated warehouses.

Total Warehouse Solution incorporates prefabricated steel structures and various automated warehouse technologies, including:

- ASRS Racking
- Automated Stacker Crane System
- Conveyor and Sorter System
- Warehouse Management System (WMS)
- Handling Robot System



Robotics and Automation Technology and Engineering Business Unit (RAT)

Industrial Automation Solution (Steel and Others) Business Unit (ASS)

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

Customer: Daramic (Thailand) Limited

Location: Prachinburi, Thailand

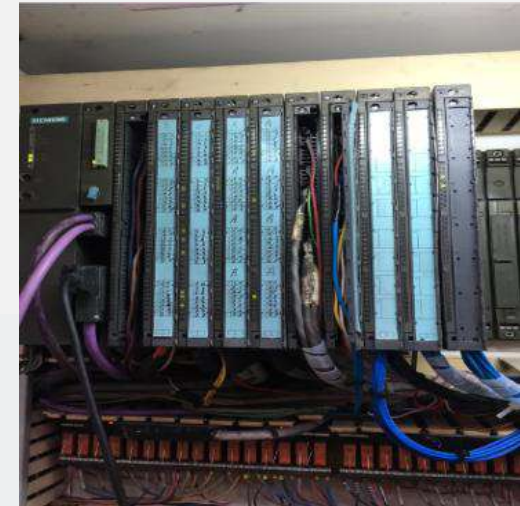
Scope of work: Design & Engineering, Installation & Commissioning, Performance Test, Training & Handover

Year: 2018

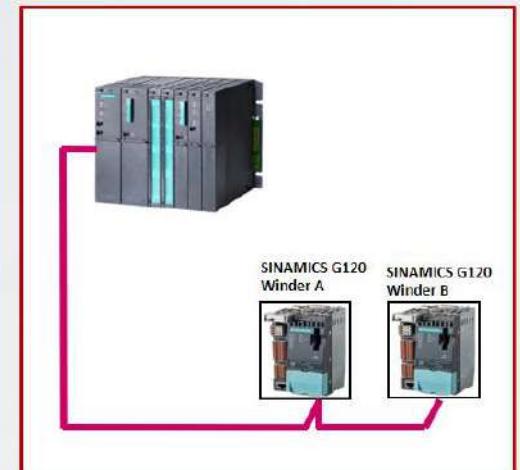
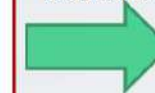


Functional Description:

- 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.



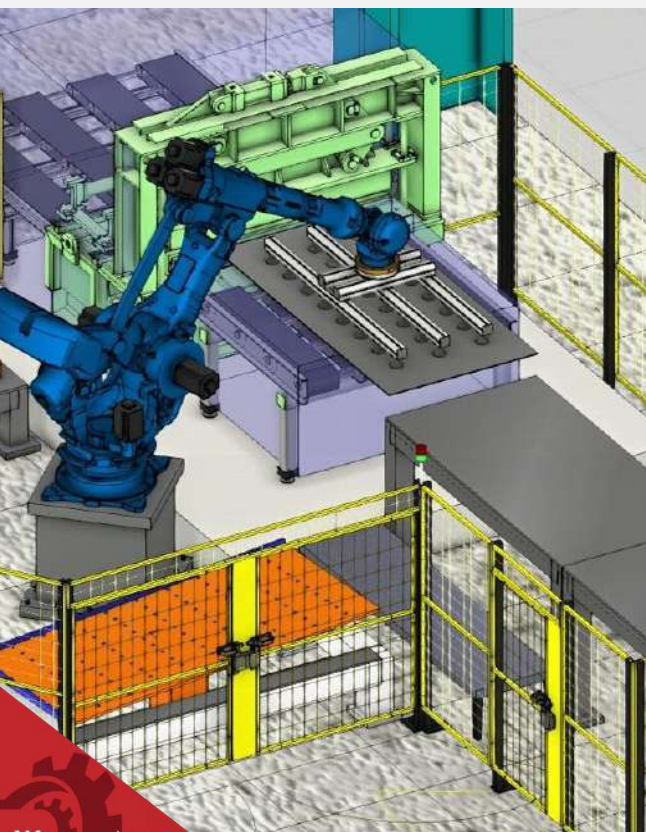
Redesign and engineering to remove CPU S7-315 and function to S7 - 400



Robotics and Automation Technology and Engineering Business Unit (RAT)

Smart Handling Robotics Solution Business Unit (HRS)

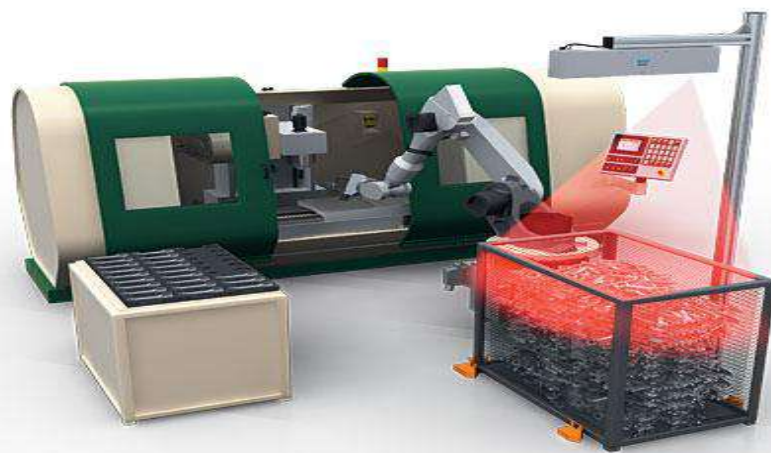
Project: Handling Robot for Machine Tending (transfer for shearing machine)



KEY BENEFITS

- **Custom Solution Design:** customized for customer usage
- **Fast installation:** Ready to start
- **Flexible:** System can move and redeployed as need change
- **Workforce Reduction:** Can replace 2-3 workers for shearing (cutting or blanking) process
- **Safety:** No human operation needed
- **User friendly:** No Programming, Model Selection

Project: Bin Picking for Machine Tending



KEY BENEFITS

- **Reduced Cost :** Fully Autonomous Process
- **Easy Model Change :** No Mechanical Jig & Fixture
- **Easy Teaching :** User friendly Vision Software with Cad Based and AI
- **Fast installation and Commissioning Flexible :** Minor Mechanical Component
- **Workforce Reduction :** Reduce 2-3 workers in part alignment process and working process

CELL OPTIONS

- **Grippers:** Custom Design
- **Safety :** Laser scanner, Safety fence & light curtain
- **3D Vision :** Part Location and classification
- **Electrical Control :** HMI & PLC

COMMON INDUSTRIES

- Automobile Factory
- Semi-conductor producers

Robotics and Automation Technology and Engineering Business Unit (RAT)

Smart Handling Robotics Solution Business Unit (HRS)

Project: **DE-PALLETIZER ROBOT**



Automated
Tire
handling

Automated handling of rubber objects focuses on the post-production stage of the tire vulcanization. Using vision-guided robotics and advanced localization techniques it is no longer required to handle the heavy objects with human force.



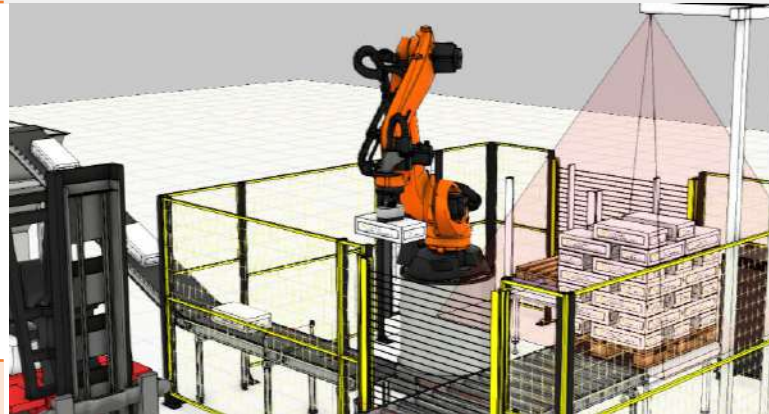
De-
palletizer
Robot

Bring your warehouse effectiveness to the next level with AI-powered Universal De-palletizer. (non-standard boxes that do not need to be stacked in patterns)



Singulation
and Sorting
System

Picking of objects with deformed surfaces that change under the slightest pressure made easy through AI algorithms.



KEY BENEFITS

- **Reduced Cost** : Fully Autonomous Process
- **Easy Model Change** : No Mechanical Jig & Fixture
- **Easy Teaching** : User friendly Vision Software with AI
- **Fast installation and Commissioning Flexible** : Minor Mechanical Component
- **Workforce Reduction** : Reduce 2-3 workers in working process

Project: **PALLETIZER LOW LIGHT PALLETIZER**



KEY BENEFITS

- **Less space**
- **Fast installation**
- **Flexible**: System can move and redeployed as need change
- **Palletizing full**: high 2.0 m.
- **Workforce Reduction**: Can replace 2-3 workers
- **Safety**: No barricade (COBOT)
- **Easy teaching**: User friendly
- **Easy Create new pattern**: Template palletize module

Robotics and Automation Technology and Engineering Business Unit (RAT)

Smart Robot Welding Solution Business Unit (RWS)

Project: **Welding Robot for Transformer Tank**

Customer: Fuji Tusco Company Limited

Location: Samutprakarn , Thailand

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

Year: 2022



Project: **BLOWER WELDING ROBOT**

Customer: Kruger Ventilation Industries (Thailand) Company Limited

Scope of work: Installation ,Commissioning, Training and Handover Completed

Year: 2022





05

Rail Technology and Engineering Business Unit (RTE)

**Design, manufacture, repair, renovate, modify rolling stock and railway
according to international standards and standard of the State
Railway of Thailand**

Rail Technology and Engineering Business Unit (RTE)

Railway Engineering and Technology Development Center
Including strategic partners and business alliances, in line with the country's development strategy that focuses on transportation, Public transport and goods via railway system. Enhancement and promoting the domestic rail industry.

The scope of services included design, engineering, manufacturing, erection, installation, commissioning, testing and after sell service of Rolling Stock and utility machine & equipment supporting the maintenance activity in DEPOT.



- Rolling Stock Technology and Engineering Solution Business Unit (RTS)**

Design and manufacture of bogie container, passenger cars, flat wagons, locomotives, and spare parts, along with services as a sales representative. The company also provides repair, overhaul, and upgrade of rolling stock, as well as skilled technician contracts for maintenance work, including the provision of equipment and other necessary items.

- Non-Rolling Stock Technology and Engineering Solution Business Unit (NTS)**

Providing project services and Technology Solutions for non-wheeled items such as Gantry Crane, Overhead Crane, Load Box for Locomotive test generator, Traverser, Wheel Lathe Machine, DEPOT etc.

Rail Technology and Engineering Business Unit (RTE)

Rolling Stock Technology and Engineering Solution Business Unit (RTS)

Project: จ้างซ่อมโครงสร้างอุบัติเหตุและปรับปรุงสภาพภายใน-ภายนอก ทำสี
ปรับปรุงห้องสุขา รถดีเซลราง THN, ATR (รถอุบัติเหตุ) จำนวน 2 คัน
(หมายเลข 1139 และ 2102)

Year : 2022 – 2024

Customer : State Railway of Thailand (SRT)

Scope of work : Assembly and installation of internal equipment, architectural finishing works, and interior and exterior painting works.



Project: งานซ่อมปรับปรุงโครงสร้าง ผลิตชิ้นส่วน รื้ออุปกรณ์ พร้อมซ่อม
ประกอบวาระหนักรถดีเซลราง THN, NKF, ATR, DAEWOO และงาน
อื่นๆ เป็นระยะเวลา 24 เดือน

Year : 2022 – 2024

Customer : State Railway of Thailand (SRT)

Scope of work : Manpower service contract



Rail Technology and Engineering Business Unit (RTE)

Rolling Stock Technology and Engineering Solution Business Unit (RTS)

Project : งานซื้อแท่งก้ามล้อ Non-Metallic จำนวน 27,000 แท่ง

Customer : State Railway of Thailand (SRT)

Location : Makkasan, Bangkok

Scope of work : Trading



Project : งานซื้อล้อรีดหีบพร้อมเพลารถสินค้า Wheel Set Class D (G9-5985) 250 sets

Customer : State Railway of Thailand (SRT)

Location : Makkasan, Bangkok

Scope of work : Trading



Rail Technology and Engineering Business Unit (RTE)

Non-Rolling Stock Technology and Engineering Solution Business Unit (NTS)

Project: **Traverser 120 Tons.**

Customer : State Railway of Thailand (SRT)

Year : 2022

Scope of work: Design, manufacture, installation, and operational testing.



Project: **Maintenance Bogie Locomotive Crane**

Customer : State Railway of Thailand (SRT)

Year : 2023

Scope of work: Overhaul of the hydraulic cylinder, maintenance of the pneumatic system, inspection and maintenance of the electrical system, and preventive maintenance of the engine system.



Hydraulic System



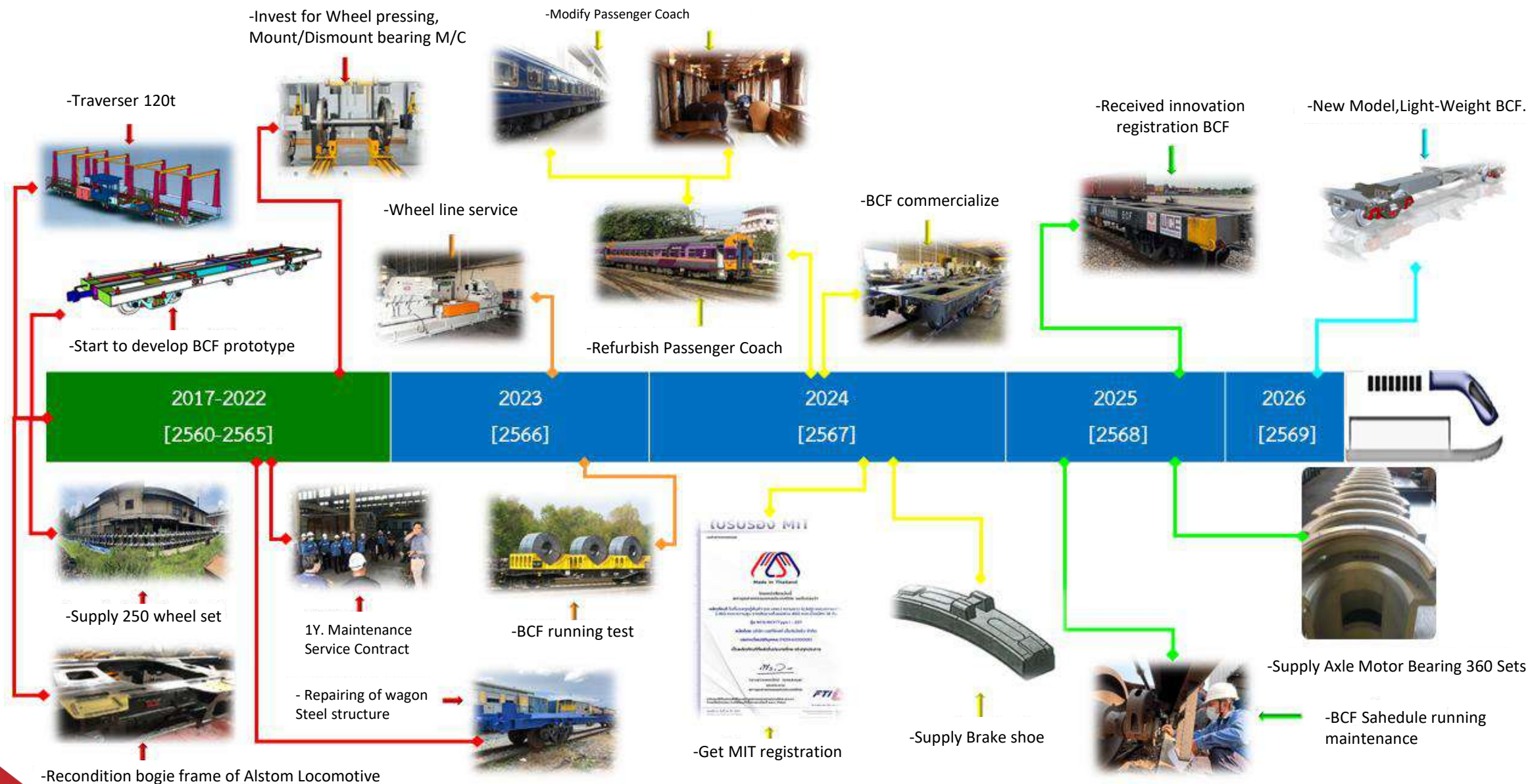
Pneumatic System



Electrical system



Engine system





LOCAL CUSTOMERS



A photograph of a curved industrial pier or walkway in the foreground, featuring a metal railing and a series of dark, rectangular blocks. The pier curves towards the right, leading the eye into the scene. In the background, the sun is setting over a calm body of water, creating a bright orange and yellow glow that reflects on the water's surface. The sky is a deep blue with wispy clouds. The overall mood is peaceful and contemplative.

Thank you