



***One-stop engineering
Solutions provider***

TRIDENTEC GROUP PTE LTD



INNOVATION



COOPERATION



DEVELOPMENT

About Us

Tridentec Group was founded in 2012 as a small start-up company in Singapore. Gradually, Tridentec Group has grown rapidly to become a key regional player in the industrial automation sector and marine & offshore engineering sector. Besides, Tridentec also acquired AS Dynatek Pte Ltd Automation Products business in the year 2016 and Power Control Automation Pte Ltd Electrical & Automation Solution Business in the year 2016. Tridentec are abiding relentlessly by its guiding principles which are innovative engineering solutions and always keep service excellence in every project. Therefore, Tridentec Group has left a trail of notable projects across virtually every industry requiring industrial automation and services. Meanwhile, in 2020, Tridentec also set up a factory in NanTong City in Jiangsu, China.

In 2020, Tridentec established Tridentec Jing Su Automation & Electrical Engineering CO.,Ltd in Nan Tong City of China. Building on its engineering expertise and experience, Tridentec Group has progressively expanded into related areas of business including building automation, surveillance and fire detection solutions and oil & gas automation and industrial control software design services. Now, Tridentec Group is actively engaged in a full spectrum of engineering disciplines, backed by dedicated teams of professionals who can confidently meet the customer's request and even exceed the expectation.

In addition, we are also proud to be a company with a management system certified by DNV in ISO 9001:2015 and ISO 45001:2018 for Provision of Automation solutions for Marine & Offshore, Oil Gas, Building and Water Treatment industries.



Our Area of Expertise included the following industry

- Marine & Offshore
- Chemical Industries
- Factory Automation
- Port Electrical
- Oil & Gas Industries
- Water Treatment
- Pharmaceutical
- & Automation



Tridentec is also ABB Authorized Value Provider System Integrator Since Year 2014 and Siemens Service Delivery Partner



- ABB 800XA DCS system
- ABB Compare Product
- ABB Programmable Logic Controller PLCs
- ABB Freelance
- ABB Drive/ Soft Starter
- ABB Motor

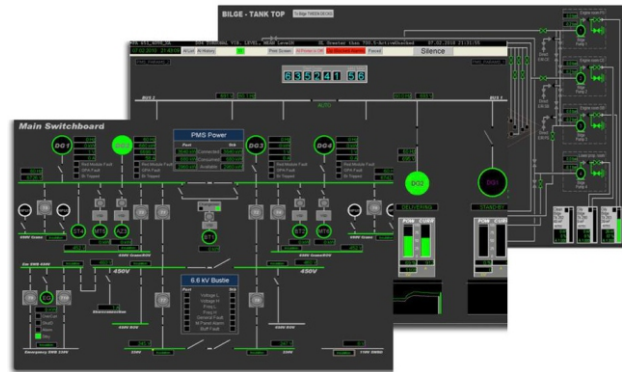


- SIMATIC HMI
- SIMATIC SCADA
- SIMATIC PLC
- SIMATIC DCS
- SIMATIC VFD

Our Products and Solutions

SCADA & DCS Solutions for PMS or BMS

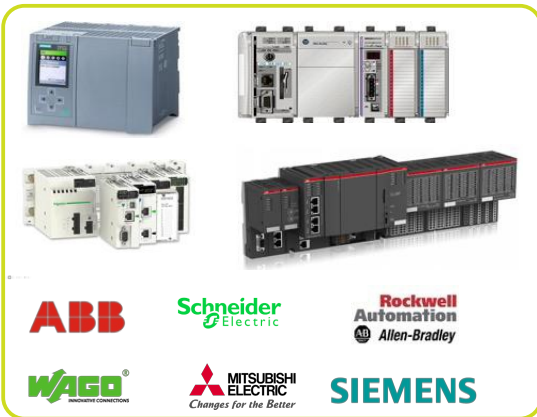
- Wonderware InTouch
- Allen Bradley FactoryTalk
- ABB 800XA / Freelance
- Siemens Wincc /PCS7
- Beijer
- Ignition



SCADA & DCS Solutions

Tridentec now offers complete plant control and management system integration from sensor through to enterprise-wide management information systems.

Solutions are customized to suit individual client application needs and are implemented using the most appropriate controller hardware and HMI configuration.



PLC & HMI and PC based Solutions

Tridentec team of highly specialized engineers and programmers will write PLC programs using ladder logic, function block diagrams, structured text and instructional lists, and have adopted the IEC 61131 international standard for PLC programming - which is intended to reduce the complexity of programming different PLC models. Besides, Tridentec team has vast experience programming for leading companies including ABB, Siemens, in PLC manufacturers Allen Bradley, Schneider, Wago, Mitsubishi .

Electrical & Control Panel

Tridentec electrical provides a comprehensive range of low voltage switchgear systems which include distribution boards, sub-boards, floor stand boards, motor control centers and power distribution units.



Tridentec are also provided Customized Electrical Panel Assembly which included;

Automation Panel Control Panel Assembly

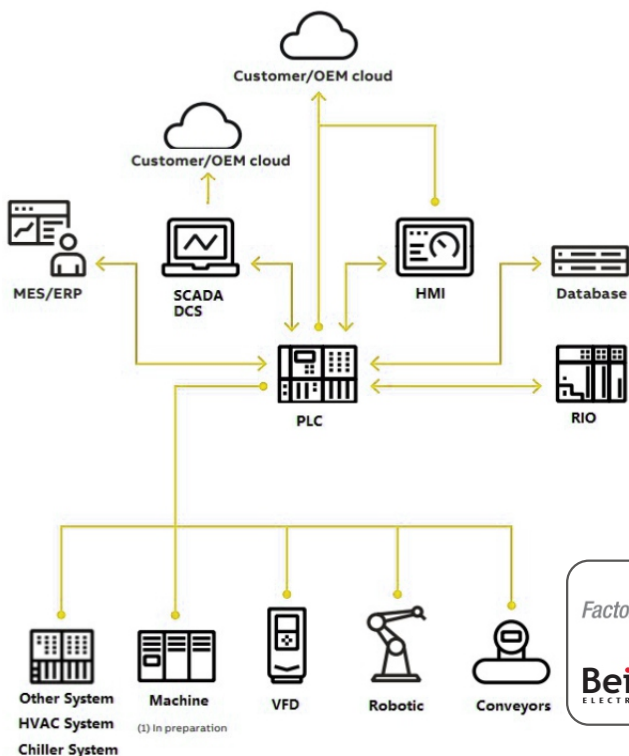
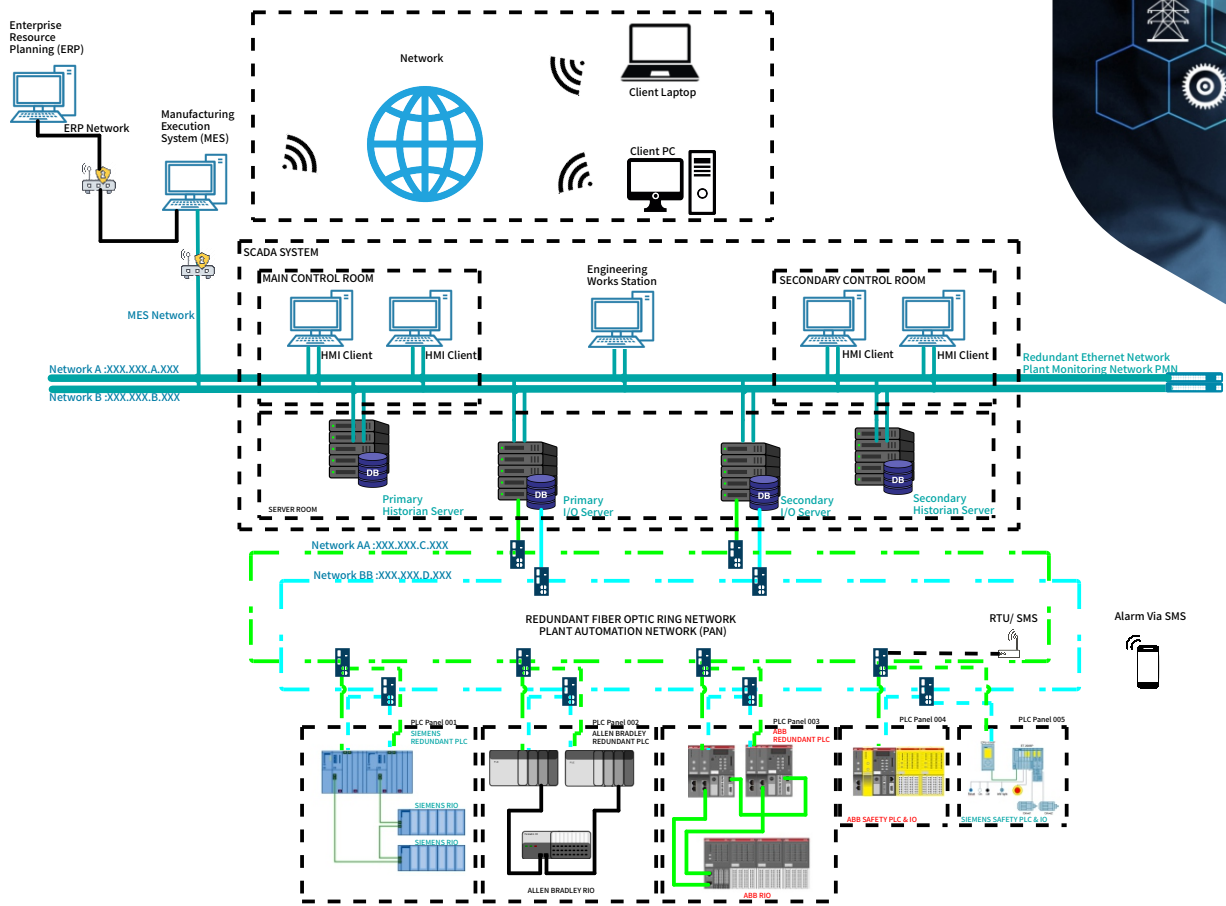
- PLC Control panel
- Remote IO Panel
- Relay Control Panel
- Control Console Panel

- Fixed Type Switchgear
- Withdrawal Type Switchgear
- VFD / DOL/ Soft starter Panel
- Distribution Board
- Weatherproof Panel
- Sub Board
- Console
- Explosion Proof Panel





Plant Monitoring System



We Provided Full Solutions with the below SCADA Software, **No Limited** to this SCADA Software.

- IT network /Internet**
 - FTP(S)
 - HTTP(S)
 - MQTT
 - OPC UA
 - SNMP
- Factory/site network**
 - BACnet
 - FTP(S)
 - HTTP(S)
 - IEC 60870-5-104
 - IEC 61850
 - KNX
 - MySQL/MSSQL
 - OPC DA/AE
 - OPC UA
 - SNMP
 - SNTP
 - TCP/IP
 - UDP
- Control network**
 - CANopen
 - CAN 2A/2B
 - EtherCAT
 - Ethernet/IP (1)
 - IEC 60870-5-104
 - IEC 61850
 - Modbus RTU
 - Modbus TCP
 - PROFIBUS DP
 - PROFINET/PROFIsafe
 - SAE J1939





Port Equipment Automation Solution

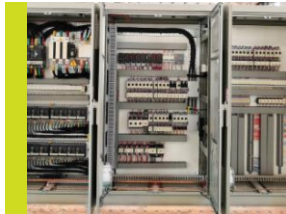
- Port Equipment Electrical Room
- Crane Cabinet
- Port Equipment Automation Control Panel
- STS & RTG & Stacker Electrical Room



Port Equipment Electrical Room



Crane Cabinet



Port Equipment Control Panel



STS & RTG & Stacker Electrical Room



Robotic Automation Solution Industrial

Tridentec Robotic Automation is a single-source, custom engineered, automation system solutions provider specializing in robotic automation. We also offer complete robotic solutions for manufacturing, warehousing and distribution.

Furthermore, our extensive robotic integration capabilities include automation systems development and engineering, project management, manufacturing and installation, and support services for all of our solutions technology.



Robotic Applications

- Robotic Case Palletizing
- Robotic Bag Palletizing
- Robotic Case Packing
- Machine Tending
- Pick and Place



Partner of Robot Manufacture



I IOT (Iot Solutions)

IIoT is simply about connecting devices on the plant floor to a network. These connections provide new ways to generate and collect useful data. This network can provide visibility down into the machine, enabling predictive maintenance and big data analytics. With IIoT, we are able to improve overall equipment effectiveness and provide new insights into our business.

- IOT module
- Device
- Gateway
- Modems

Windows Applications

- C++, C#, Dot Net
- ISO / Andriod Mobile Apps

Web Applications

- PHP
- ASP .NET
- SQL /MSQL
- HTML
- Java

- Operations Management System (OMS)
- Production Information Management System (PIMS)
- Manufacturing Execution System (MES)



Our Services

SYSTEM INTEGRATION

System Integration also known as control system integration experts, TRIDENTEC has extensive experience in implementing leading automation control software compassing a diverse range of solutions and industries.

PLC AND SCADA PROGRAMMING

PLC and SCADA Programming proceeded from Control Logic (PLC) to supervisor system (SCADA) and system diagnostic and reporting. With this, TRIDENTEC will help your business develop complete control solutions based on a set of object-oriented libraries customized to your specific industry and your organization. Through working closely with customers, we will be able to establish your software architecture and framework that are robust, and intuitive to deploy and expand.

PANEL DESIGN AND FABRICATION

TRIDENTEC are sophisticated and strictly abides by the tightly quality control in panel design and fabrication. We are always focusing on detail and emphasizing user requirements specific to each industry. When coupled with our automation and system integration expertise, our electrical and control panel will integrate seamlessly with your control and business system.

SOLUTIONS DESIGN

TRIDENTEC offers solutions designed for both complete and upgraded automation control packages. Our engineers and solution consultants are able to elevate the industry standards and best practices of the industry, enabling seamless integration from the plant floor to the enterprise level of an organization.



INSTALLATION SUPERVISION

We believe that whether it is part of a project or a separate service, with our expertise in automation systems and electrical, we will help you to complete the installation and testing of the systems within the timeframe and budget. Hence, TRIDENTEC mission is to promote performance-driven and effective teamwork through management and supervision throughout the installation and commissioning phase, achieving the best result with the core of safety, integrity and transparency in order to meet and exceed the expectations of customers.



TESTING AND COMMISSIONING

TRIDENTEC recognizes testing and commissioning as the decisive step to tie the project together from the design and installation to the operational phase which is the ultimate objective of a project. With our plentiful experience and expertise in electrical fields, our control engineers will perform commissioning which includes the testing of our design and installation and also involve the integration with 3rd party devices and systems. TRIDENTEC will provide complete documentation such as test plan, test procedure and test record to ensure smooth, compelling and successful commissioning of the project.

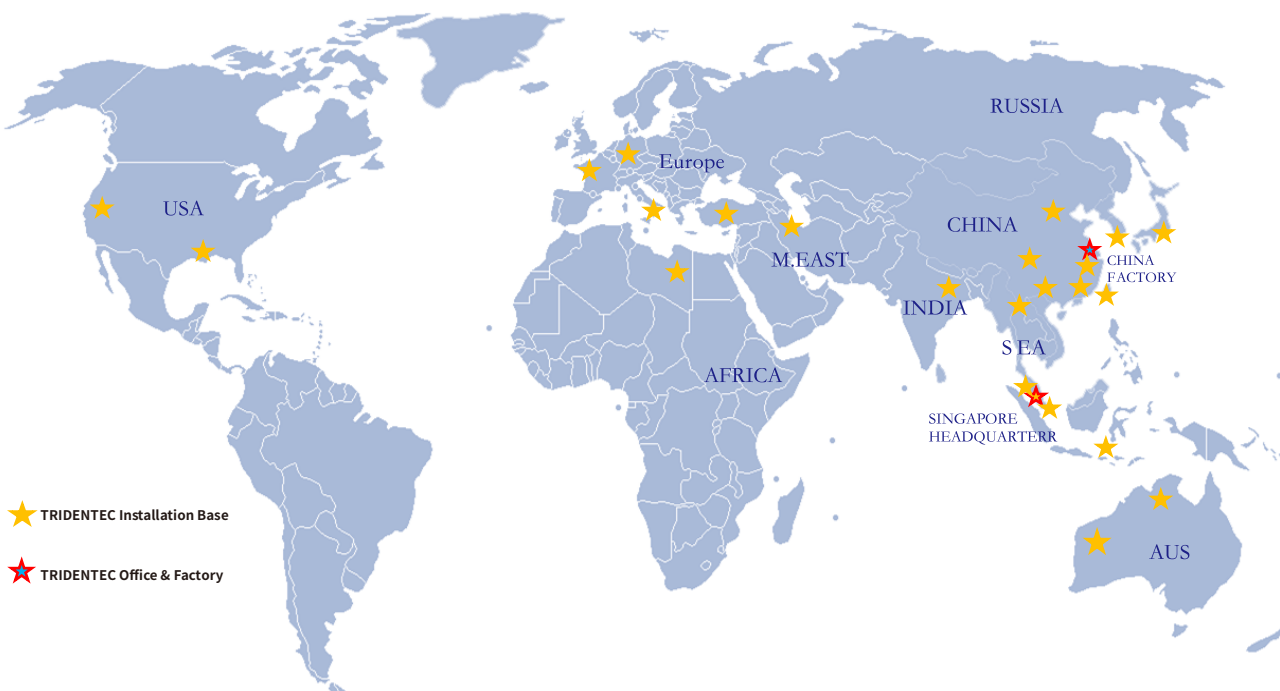


AUDIT AND CONSULTING

TRIDENTEC consulting services include system study, research, workshops, stakeholder engagement, auditing, product assessment, conceptual design, documentation and artefact development, developing sound recommendations, developing design specifications and developing detailed requirements from customers.



TRIDENTEC Clients & Business Partners and Installation Base Are All Over The World.



**ENGINEERED TO AN
UNCOMPROMISING
STANDARD.**



Contact Us

Head Quarter

TRIDENTEC GROUP PTE. LTD.

39 Woodlands Close Mega
#05 -066 Singapore 757516

Office : (65) 6553 9336
Fax: (65) 6772 6886

Email : Sales@tridentecgroup.com
Website: www.tridentecgroup.com

China Factory

中国工厂
江苏泰登电气自动化工程有限公司
中国江苏省南通市开发区江韵318

销售电话:(86) 13646277937
常经理 daijun.chang@tridentec.com.cn

项目部电话:(86) 13902287713
童经理 chris@tridentecgroup.com

集团销售电邮:sales@tridentecgroup.com
网站: www.tridentecgroup.com

