



Corporate Guide

**BUILDING YOUR IDEAS TO
GREATER HEIGHTS**





Singapore Takada Ind. Pte. Ltd.

Established by **TAKADA CORPORATION**
in Singapore on 15 February 1971

WITH PROMINENT TECHNOLOGY AND SKILLS

For more than 50 years, Singapore Takada (STK) has been excellent in providing Engineering, Construction and Maintenance Services for Petrochemical Plants, Chemical Plants, Pharmaceutical Plants, Oil Refineries, Power Plants and Semi-Conductor Plants.

Teamwork is the foundation of our success. As a leading Engineering Construction Company in Singapore, we have won multiple safety awards and accolades, and successfully completed numerous projects with excellence.

“We strive to give the Best to our customers and has proven with our outstanding achievements!”

“ Singapore’s Leading Business Partner for Construction and Maintenance Services ”



Pure Heart

Passion

Hope

The letters STK became a familiar sight for everyone for more than 50 years. Pure Heart, Passion and Hope has been the working principles of STK. We will continue to use these principles on our journey to the future.



VISION, MISSION AND VALUES

Our Vision and Mission

STK strives to go above and beyond the expectations of our clients. We aim to maintain our high standards of quality service and continue to achieve extraordinary results as the leading engineering construction company in Singapore.

Our Values

Safety

We are uncompromising in upholding the safety and well-being of our staff and workers.

Responsibility

Our brand and reputation ride on the quality of our work and services delivered punctually to our clients.

Integrity

We always deliver our promises and are accountable for the prudence of our decisions and the quality of our work.

Innovation

We are committed to nurturing research and developmental projects that improve maintenance, repair and construction processes.

Learning

We believe in the continuous learning, training and development of our staff and operational processes. We are constantly seizing opportunities for development.

SAFETY FIRST

SAFETY, HEALTH, ENVIRONMENT & SECURITY POLICY

SAFETY GOAL

PREVENT ALL ACCIDENTS, INCIDENTS AND NEAR MISSES – Target Zero Accident

SAFETY MOTTO

“TAKE SAFETY TO HEART WE NEED YOU”

Responsibility

Singapore Takada Industries accepts responsibility and is committed to achieving high standards in Safety, Health, Environment & Security. STK shall comply with all statutory legislations, SGSecure and client requirements.

Improvement

To achieve our goal, all incidents and near miss must be reported. These shall be tracked and analysed. STK shall review its policies and operations for improvements. Improvements shall be made in order to prevent further occurrences.

Prevention

We seek to prevent any incident, injury, property damage, fire outbreak and occupational illness, any of which could result in human suffering (both mental and physical)

We empower any personnel to stop any unsafe work and also to stop any unsafe act or behaviour that may lead to accident and dangerous situation.

Risk Assessment / Safety Training

Singapore Takada Industries shall identify all possible hazards, assess the risks and develop counter measures to eliminate, control or minimize risks. We shall continue to develop new training materials and continue to provide training for personnel and stakeholders.

Commitment

We are committed to provide a safe, healthy and secure working environment which is an integral part of our business. Everyone has a duty to exercise due diligence to ensure the business or undertaking has and uses appropriate resources and processes to eliminate risk to health and safety.

Our managers, engineers, line supervisors, foremen, workers and subcontractors all have a crucial part to play and are committed to fully participate and exercise their obligations.

Implementation

All employees are responsible to implement this policy by continually observing all Safety & Environment Management System practices and rules everyday. Full cooperation of all employee and stake holders are required to successfully achieving the purposes of this safety policy.



BUSINESS ACTIVITIES

TAKADA TOTAL SYSTEM



Construction

- Planning
- Fabrication
- Field Installation Work



Maintenance

- Daily Maintenance
- Shutdown Maintenance
- Manpower Supply for Repair and Maintenance Service



Plant Monitoring and Diagnosis

- TAKADA Motor Current Multiplex Analysis
- Diagnostic in Low-Speed Rotating Machine
- Inspection of Inner Surface of Large Diameter Pipes
- Corrosion Damage Analysis

PLANT BUSINESS

STK's corporate motto has always been "Benefiting customers by responding to their needs through technologies and skills."

This traditional business spirit is the backbone of all of STK projects of industrial facilities, including design, procurement, manufacture, construction and maintenance.

Through the implementation of safety and quality control in all projects, STK boasts track records that are highly reputed in industrial worlds both locally and abroad.

STK takes pride in offering high quality products with competitive prices to all our customers and established a reliable and trusted business partnership.

From technology to business operations, STK supports business industries in Petrochemical & Chemical Plants, Refineries, Electronics and Pharmaceutical.



Electronics



Refineries



Chemical



Power Stations

CONSTRUCTION

With over 50 years of experience, STK has established a reputation as one of the Leading Construction Contractor in Singapore. Our vast knowledge and experience enable us to efficiently accomplish major fabrication and site installation works in Singapore.

STK also developed new technologies to help improve our fabrication and installation works, allowing us to be the leading one-stop solution provider to our clients in Singapore.

Project Planning and Control

Overall Construction Plan:
Incorporates all the required procedures and client construction designs

Safety Plan:
Implements an exhaustive safety management program to ensure Zero Accidents and Zero Injuries.

Quality Plan:
STK strictly pursues multiple quality control processes to achieve the best quality work.

Schedule Control:
STK implements progress monitoring to ensure target deliveries are met.

Cost control:
STK monitors all processes to ensure costs are controlled and reduced, without compromising on quality and efficiency.

Education and training:
All STK employees are well educated and trained before the commencement of each project to ensure everybody comprehends the Construction Plan.

Shop Fabrication

Computer-aided Fabrication:
A computer-aided fabrication program developed at STK to monitor the different stages of the fabrication processes.

3D Modelling:
To enhance and assist in determining the field welds, minimising the time taken for field installation.

Barcoding:
To quickly categorise and identify completed fabricated pipe spools.

FIELD INSTALLATION WORKS

Segregating Spools:
Installing barcodes on the fabricated spools to make it easier for segregating and finding spools per area.

Planning Laydown Area:
The laydown areas for the fabricated spool pieces are thoroughly inspected and checked by quality control.

Overall Planning and 3D Modelling:
Engineering Team will plan the overall schedule for installation process with the aid of 3D Models. This planning includes erection of scaffolds.

Planning and scheduling of heavy-lifting:
STK prepares the spools to be delivered to the construction site with the necessary machinery, equipment and personnel.

CONSTRUCTION

PROJECT PLANNING AND CONTROL

At STK, we have multiple inter-disciplinary departments ranging from Engineering, Financial, Sales, Safety and Quality Control. Our wide range of expertise and knowledge, coupled with years of experience, empowers us to deliver projects from the planning stage to completion.

Our plans and designs are driven by engineering principles and guided by the highest standards of quality we pride ourselves on.

3D Modeling



Barcoding Control



3D Modeling



Computerised Piping Control (CPC)



CONSTRUCTION

FABRICATION WORK

STK designs, fabricate and repairs all kinds of materials from special to carbon steel pipes and their components at our own work shop facilities

With our in-house computer program data control in fabrication and 3D Modelling program,

the shop fabrication team can monitor and inspect the progress of fabrication faster and easier. The fabrication, design and field installation team work closely together to ensure that spool are fabricated according to plan and schedule.



CONSTRUCTION

FIELD INSTALLATION WORK



Years of experience in the field of construction have led us to be able to identify the risks of the installation processes.



Safety Management Plans are prepared and issued to the project team, with an emphasis on educating all team members to observe all safety rules and regulations.



MAINTENANCE

WE KEEP YOUR PLANT OPERATING

STK diversified our services and included plant maintenance in the early years. We are recognised as a trusted daily maintenance and maintenance shutdown contractor in Petrochemical, Chemical, Electronics, Refinery and Power Plant industries.

With our vast pool of experienced staff and workers operating with specialised tools and technologies, we will keep your plant operating all the time.



STK MAINTENANCE SERVICES

- Daily Preventive Maintenance
- Shut Down Maintenance
- Manpower Supply for Repair and Maintenance Service
- Overhaul of Rotating Equipment
- Repair, Modification and Maintenance of Piping and Equipment
- Maintaining and Servicing Cracking Furnaces



MAINTENANCE

DAILY MAINTENANCE

Rotating Equipment Repair Work



Petrochemical Plant Daily Maintenance



MAINTENANCE

SHUTDOWN MAINTENANCE

Inspection of Pump during Shutdown Maintenance



Heat Exchanger Servicing



Petrochemical Plant Shutdown Maintenance



MAINTENANCE

FURNACE REPAIR & MAINTENANCE

Installation of
Radiant Tubes for
new Fired Heater



Inner Surface
Buttering
Method



Maintenance Technology
of Cracking Furnaces in
Ethylene Production Plant

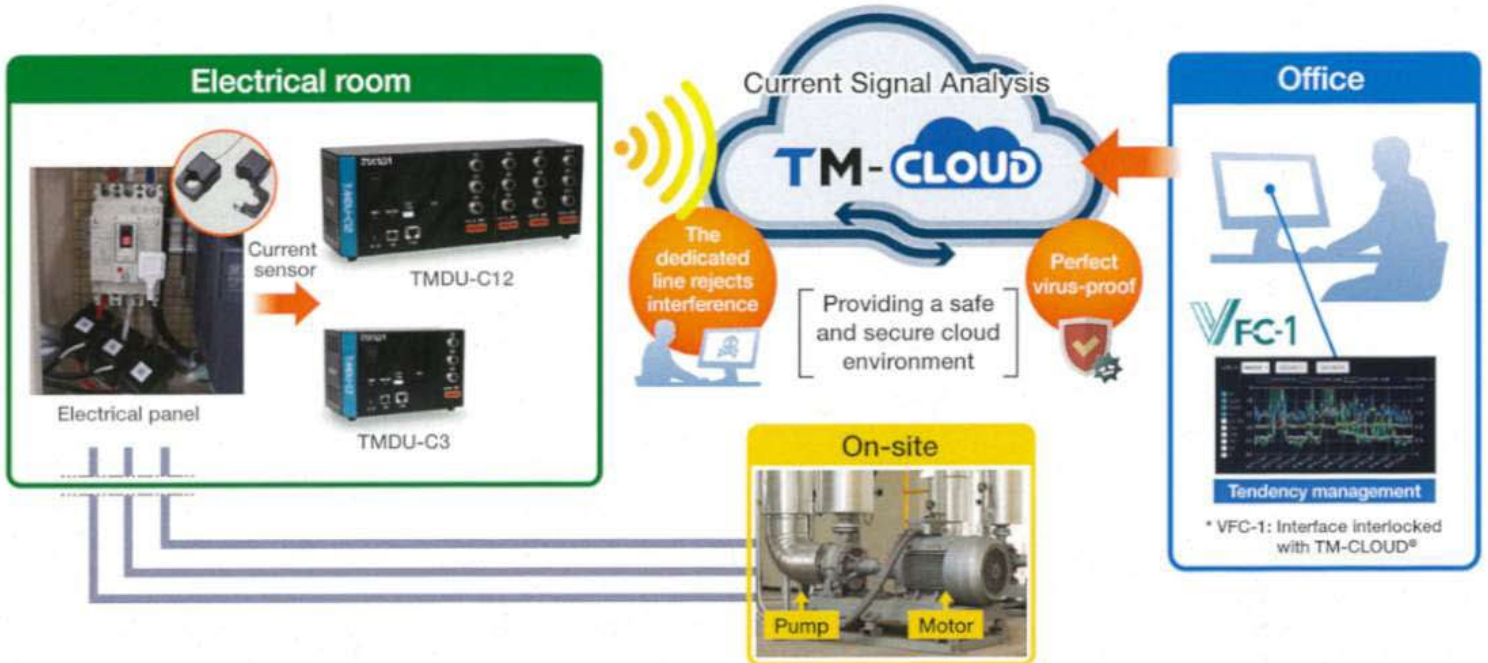


PLANT DIAGNOSIS

TAKADA-Motor Current Multiplex Analysis

Japan's first ! IoT and cloud supported

T-MCMA System



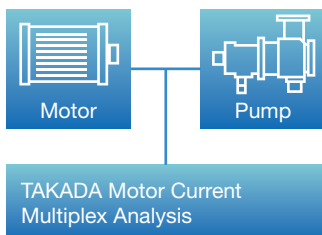
Features of T-MCMA

- Making it possible to measure and diagnose rotary machines regardless of the installation site by simply attaching a clamp to the electric panel.
- Diagnosing the motor and the machines on the load side.
- Ensuring a wide range of applications (general rotary machines, low-speed rotary machines, and high-voltage motors).
- Multi-channel on-line monitoring and diagnosis are possible using a wireless network and cloud computing.
- Inverter diagnosis, winding insulation degradation diagnosis, power quality monitoring, transient current diagnosis, and process diagnosis are also possible.
- Enabling off-line, on-line, and remote monitoring and diagnosis with a small investment.

T-MCMA Detects Abnormalities in Various Parts

By simply diagnosis and analysing a current signal, it is possible to detect multiple abnormal conditions in various parts of motors, rotary machines, power supplies, etc., through which the current flows.

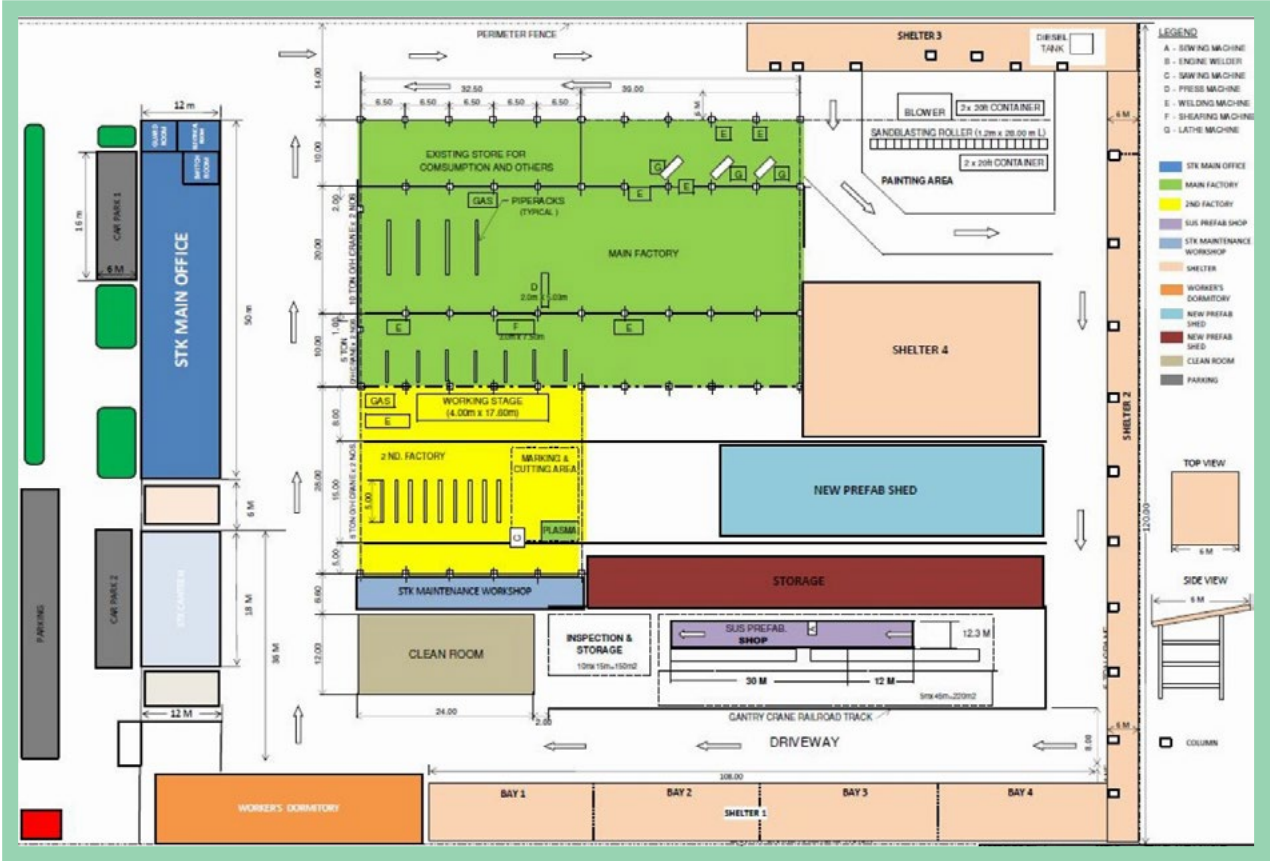
Possible to monitor multiple parts at a time



The condition of motor and pump are diagnosed by measuring the electric current, which greatly reduce the cost of periodic inspections.

Locations	Detectable Items
Motor	<ul style="list-style-type: none"> • Rotor errors • Stator errors • Rotating shaft eccentricity • Inverter-control motor errors • Coil insulation errors
Rotating Machine Body	<ul style="list-style-type: none"> • Coupling errors • Rotating shaft errors • Blade errors • Inverter-control rotating machine errors • Bearing errors
Power Supply	<ul style="list-style-type: none"> • Power noise (quality) • Inverter errors • Power consumption

SHOP FACILITIES



STK WORKSHOP

TRAINING

SKILLED AND TECHNICAL WORKFORCE ARE THE STRENGTH OF STK

Training our workforce to be the most skilled

STK ensures that all our engineers and technical workers are constantly upgrading their technical know-how and skills through training.

We send our engineers and technical workers to our parent company's (Takada Corporation) training centre in Japan as well as provide in-house training here in Singapore.

We are proud to have the best trained and skilled technical workforce, well-equipped to attend to your plant needs.



Conducive training facility which is similar to actual work place



Engineers under training at STK main office

COMPANY PROFILE



Date of Incorporation:

15th February 1971

Issues & Paid-Up:

S\$9,500,00.00

Main Shareholder:

Takada Corporation -100%

Main Office & Workshop:

51 Gul Road, Singapore 629352

Total Land Area:

22,632 m²

Covered Workshop:

6,000 m²



NETWORK

The STK brand has long been established in Singapore as the leading engineering construction company. Our dedication to quality and safety earned us the reputation for being reliable and the choice engineering construction company. We will continue to seek new opportunities within Singapore and across borders whilst safeguarding existing relationships forged with current and previous clients.





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