

# DANIELI INDIA



Automation Division



**DANIELI** AUTOMATION

Know-How in Process Control

AUTOMATI  
ONINNOVA  
TIONAUTO  
MATIONIN  
NOVATION  
AUTOMATI  
ONINNOVA  
TIONAUTO  
MATIONIN  
NOVATION



# DANIELI AUTOMATION SpA

DANIELI AUTOMATION is the company, within the Danieli Group, responsible for the transfer of technological know-how from other Danieli technological divisions to end users, supplying the interface between plant process and operator.

Based on the intuition of Mr. Luigi Danieli, DANIELI AUTOMATION was founded in 1969. This intuition soon became a reality when a team of electrical engineers started to work in close collaboration with their mechanical partners from Danieli Officine Meccaniche, starting the design and production of electrical systems for the metals industry.

Today Danieli Automation can offer complete electrical and automation equipments for all types and sizes of plants in the steel industry on a turnkey basis while keeping software development and knowhow in house.





# DANIELI INDIA LIMITED

## Automation Division

Danieli India Limited Automation Division is a fully capable Project Electrical and Automation team within Danieli India Limited supported by Danieli Automation SpA.

Danieli India Limited (DIL) is a fully owned subsidiary of Danieli & C. Officine Meccaniche SpA, Italy and has its Indian headquarters in Kolkata with branch offices in Mumbai and Chennai.

The state-of-the-art factory in Sri City manufactures all critical and noble mechanical equipments for steel plant applications as per DANIELI design, engineering and stringent quality standards.

The workshop at Taratala in Kolkata is equipped with facilities for manufacturing and integration of electrical and automation system solutions.





Project Management and Execution



System Engineering for Power Distribution and Drive Systems



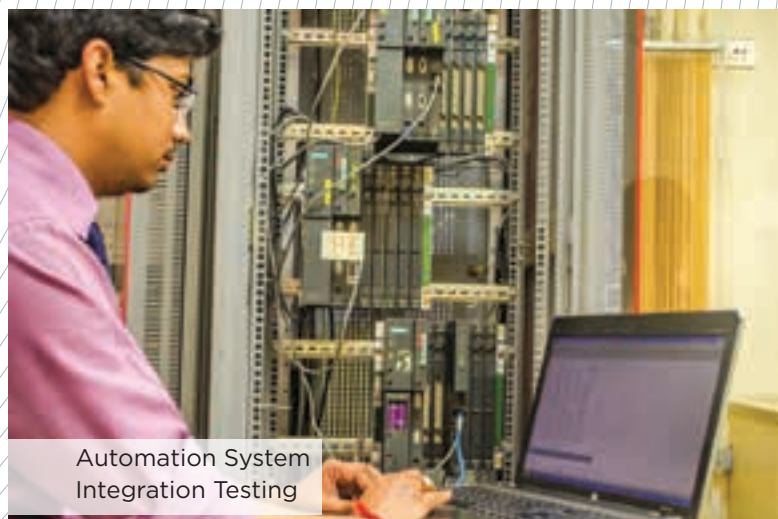
SCADA Package Design and Development



Plant Automation System Design



Value Added System Design



Automation System Integration Testing







# TARATALA WORKSHOP

## Manufacturing and Integration

Danieli India Automation  
Division's formula for effective  
system integration

With solutions for the Indian industrial sector in mind, Danieli India Automation Division has developed an Automation and Electrical workshop at Taratala in Kolkata in West Bengal, India.

A multiplatform and open architecture in-line with international standards allows us to provide HW and SW platforms from leading suppliers in the market.

Similarly electrical equipments are either configured in-house or chosen from the market to satisfy tough working conditions, long equipment life and specific customer or local requirements.





# DRIVE SYSTEMS FOR METALS

## INTEGRATED SYSTEMS

Danieli India Automation Division assembles and manufactures LV Drive solutions in standalone and multidrive configurations at its workshop in Taratala.

As a system Integrator, we will choose from within the best suitable technology available in the market.

This means no rigidity towards brands, component selection and flexibility in configuration which act as an automatic enabler for continuous improvement and innovation, resulting in the best performing and most competitive plants for our customers.

Highly customizable, brand independent and configurable drive systems, integrated in Taratala.



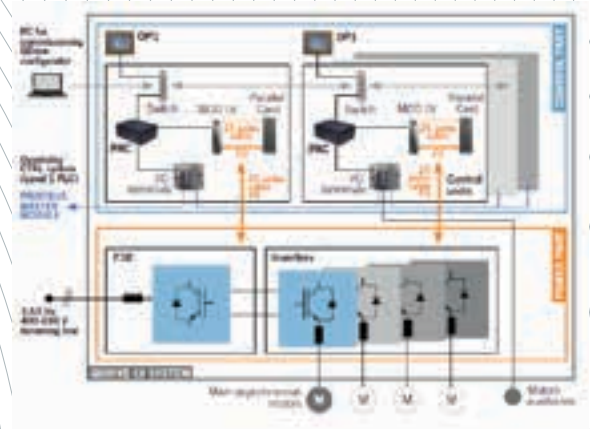
# QDrive™

LV-Q Drives with Field Oriented Control (FOC) for induction and synchronous motors with up to 4000 A @ 690V rated inverter current.

MV Multi-Level Q Drives with IGBT based cascaded H-Cell topology for non-regenerative applications. Available in output voltage from 3.3kV to 10kV with power up to 9000kVA at 10kV.

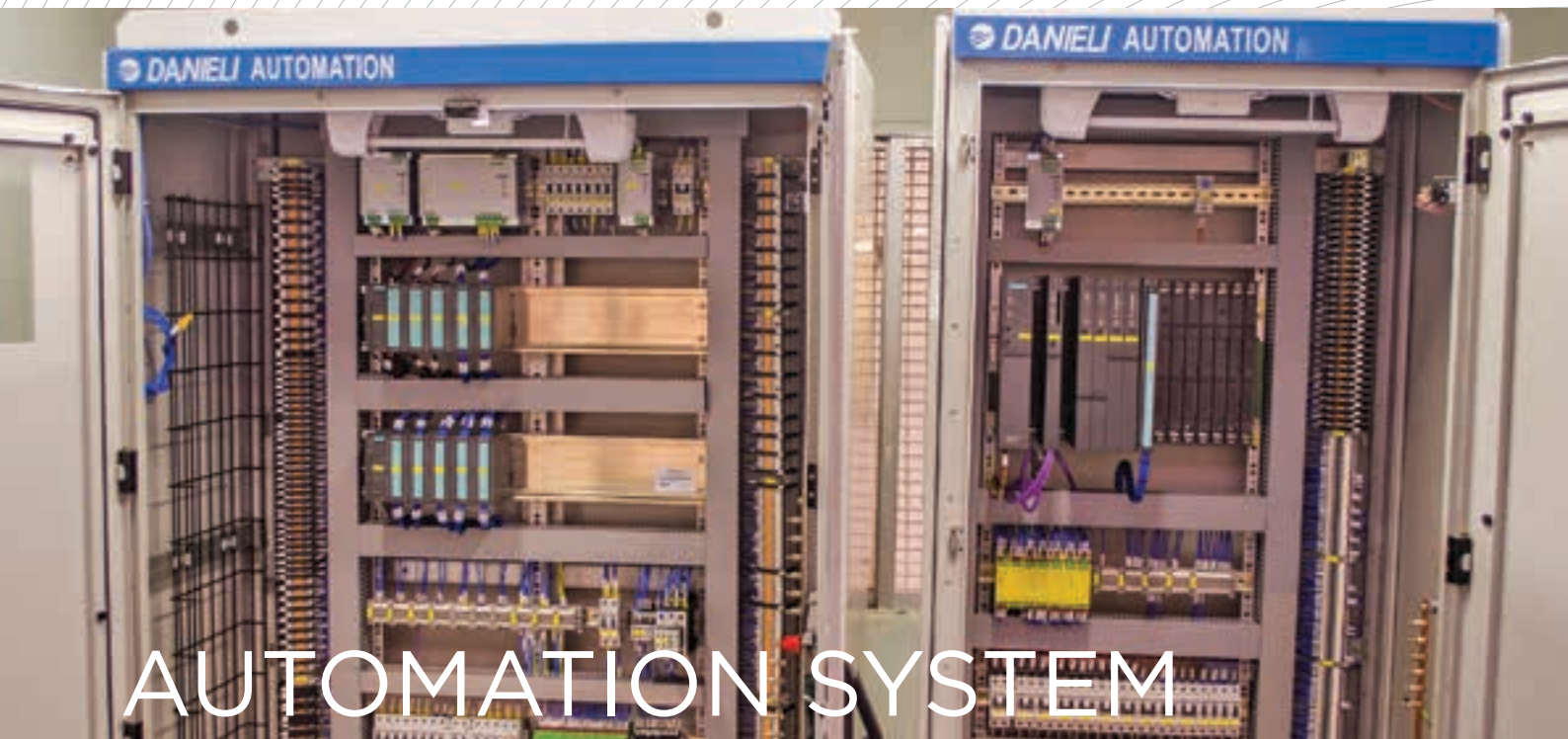
MV-Q Drives in three level NPC topology using watercooled IGBT and IGCT based power stack. Available for synchronous and induction motors, these drives can be configured for Regenerative as well as Non-Regenerative applications.

QDrive Control Architecture example for LV multi drive using innovative Danieli Process Automation Controller (D PAC).



QDrive Colour Touch Panel based OP for drive parameterizing and monitoring.





# AUTOMATION SYSTEM

Danieli India Automation division's synergistic relationship with the full range of Danieli products provides the former with a thorough knowledge of the process and plant requirements, as well as a common background with the parent company.

With technological support from Danieli Automation SpA, customers are provided with advanced solutions to make decisive contributions that bring a competitive advantage in a highly dynamic market.

Danieli India Automation Division has its own Automation Systems designing and engineering team who successfully oversee systems manufactured in the Taratala Plant right up to FAT.

With technological support from Danieli Automation SpA, customers are provided with advanced solutions to compete in a highly dynamic market.



# OPERATOR INTERFACE SYSTEMS



## Human Machine Interface

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**OWS -Operator Workstation** – for the supervision and control of the equipment and the process.

**PWS – Process Workstation** – for the interface between the Process Engineer, or the Plant Scheduler, and the Process Control System, mainly the database.

**TWS – Technological Workstation** – Dedicated systems that run technological models requiring special application software dedicated to a single process.



## Pulpit Control Desks

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**Pulpit Control Desks** are the interface between the pulpit operators and the Process/Equipment to carry out the following functions:

- › Visualisation of important process variables.
- › Manual set point changes.
- › Manual commands for equipment movement.



## Shop Floor Stations

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The Shop Floor Stations (SFS) are equipped with the devices required to operate the equipment or process functions concerning a portion of the technological area. The stations are located in view of the area controlled.

The main Local Control Stations (LCS) are equipped with keylocks for engaging and disengaging local or remote control modes.

The SFSs are defined by their rugged construction, aesthetic interface layout and ergonomic wiring layout.

# EQUIPMENT & SYSTEM

# TESTING AND QUALITY ASSURANCE

With a dedicated team for quality control and inspection for manufacturing processes within the company as well as for sub vendor's equipments, we guarantee that the systems supplied adhere to the requisite standards applicable.

The dedicated Variable Frequency Drive Test bench using a motor generator set allows in-house load testing and parameterisation.





# SERVICE AND SUPPORT



## Retrofit Up-gradation and Spares

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A stock of spare parts enable our customers to reduce down-time to equipment failure and promote a fast productions re-start. DANIELI AUTOMATION offers a system by which customers can order spare parts directly via our portal, reducing the lead time and also taking advantage of special discounts.

We also undertake activities involving revamping of old equipments and installations and any associated modification of automation system softwares.



## Remote Service Assistance

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Customers can contact us through our Helpline by phone or by logging a service call in the DA-Service portal for technical assistance.

We will revert shortly to understand and analyze the complaint and subsequently resolve it with the help of our experts.



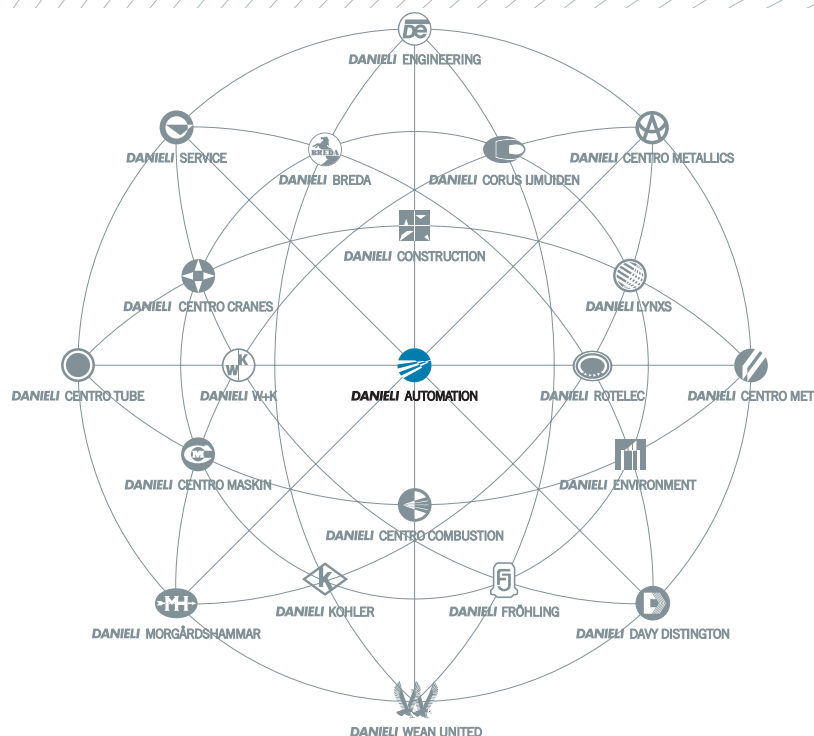
## Training

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We provide 3 types of training.

- E-learning courses with online certification.
- Theoretical and practical training at our factory.
- Customized training at customer's premises.





# WORLDWIDE OFFICES

## MAIN OFFICES

Buttrio / **ITALY** (headquarters)  
Genova / **ITALY**

## WORLDWIDE OFFICES

Kolkata / **INDIA**  
Rayong / **THAILAND**  
Beijing / **CHINA**  
Sheffield / **UK**  
Pool / **UK**  
Moscow / **RUSSIA**  
Dnipropetrovsk / **UKRAINE**  
El Cairo / **GYPT**

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