

TEKNIKA

(Pvt) CORPORATION OF PAKISTAN

ENGINEERING SOLUTION PROVIDER



TEKNIKA (PVT) CORPORATION OF PAKISTAN

TCP is an engineering solution provider company which was established in 2002 and specializes in the field of Industrial Automation & Control, HVAC, Instrumentation and Electrical works. The company has a proven track of completing major projects in these areas and endeavors to provide satisfactory quality services to our clients. The company has a team of technically skilled individuals with vast experience in the related fields of engineering and technology and we target to complete the projects within schedule, meeting all the requirements of our clients. The company's growth is mainly credited to developments of technical skills in the following industrial sectors:

- | | |
|---|---------------------------------|
| ⇒ Fertilizer Plant | ⇒ Air Port / Aviation Authority |
| ⇒ Textile all types of Processing Plant | ⇒ Building Management System |
| ⇒ Oil & Gas fields | ⇒ Cement Plant |
| ⇒ Pharmaceutical Companies | ⇒ Hospital and Laboratories |
| ⇒ Steel Mills | ⇒ Universities |
| ⇒ Water Treatment Plant | ⇒ Power Plant |
| ⇒ Oil Refineries | ⇒ Chemical Industries |
| ⇒ Motor vehicle Industries | |

We provide Engineering Solutions to meet your critical demands and tough Challenges:

- Industrial Automation and Control Solution to Oil & Gas, Pharmaceutical, Textile and other Process Industry.
- Plant Control System Optimization for Energy Efficiency
- Provisioning of Industrial Equipment
- DCS and Remote Monitoring Solutions
- BMS (Building Management System)
- Monitoring and Control of HVAC, Fire Protection, Security systems, Lighting and Pumps etc.
- Waste water Management system.
- Bio-medical Equipment
- Vehicle Tracking System

Quality Policy

Teknika Corp, an ISO 9001 certified company, is an Engineering Solution provider for design, implementation and commissioning in the field of Industrial Automation with a commitment to ensure the following measures for the customer satisfaction as well as service excellence :

- ✓ To meet the requirement of customers in time.
- ✓ To meet all applicable international standards.
- ✓ To provide conducive environment at work place.
- ✓ To build a team of professional for provisioning of services par excellence.



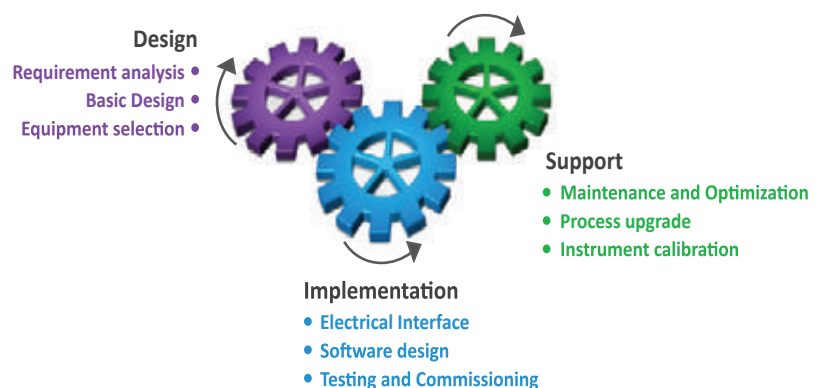


We provide solutions in the area of Industrial Automation

Teknika Corp undertakes turnkey projects in electrical, instrumentation, control systems & HVAC. Throughout the whole chain from conceptual engineering to installation and commissioning, we are there to provide you an efficient and optimum solution. Our follow-on support includes everything from service and maintenance of all our systems to spare parts and full retrofit installations. We work in close cooperation with our customers and users to know their needs and requirements. We follow a sound approach of Project Management all the way from Design to Implementation up to Follow-on Support:

- Basic Design
- Engineering
- Project management
- Field Installation
- Commissioning and Start-up
- Customer Training & Documentation
- After project support
- Annual maintenance contract
- Product & Control System Solutions

3 Phase Solution of an Automation Projects



We have a full-fledged Electrical & Instrumentation Design & Development team that can undertake large scale installation, testing and commissioning of projects in diversified Industrial sector including refineries and petrochemical industries. We have developed our business association with some of the renowned Original Equipment Manufacturer which enables us to provide a complete solution in diversified areas.

Dedicated Product Engineers ensure that the right solutions are always provided to our customers. Automation Projects Division possess a team of highly trained, experienced and motivated group of professionals, supported by latest field equipment duly supported by our international partners.



PLC & SCADA SUPPORT.

PLC & SCADA can be implemented in your facility in order to control your industrial electrical and electronic systems. You input your directions, and the automated system begins working toward your desired result. Cost-effectiveness can be greatly increased with a high degree of automation in industrial processes. Sound knowledge of processes is the key factor for the design and installation of automation and instrumentation systems. We provide a team of experts with the necessary expertise and experience at the highest level.

- PLC software programming & design
- SCADA software programming & design
- HMI software programming & design

The software programs we commonly use include:

- RSLogix 500 & 5000
- Siemens S7
- Delta
- Mitsubishi
- LS
- RSView
- WinCC

Authorized Distributor in Pakistan

OVERDIGIT

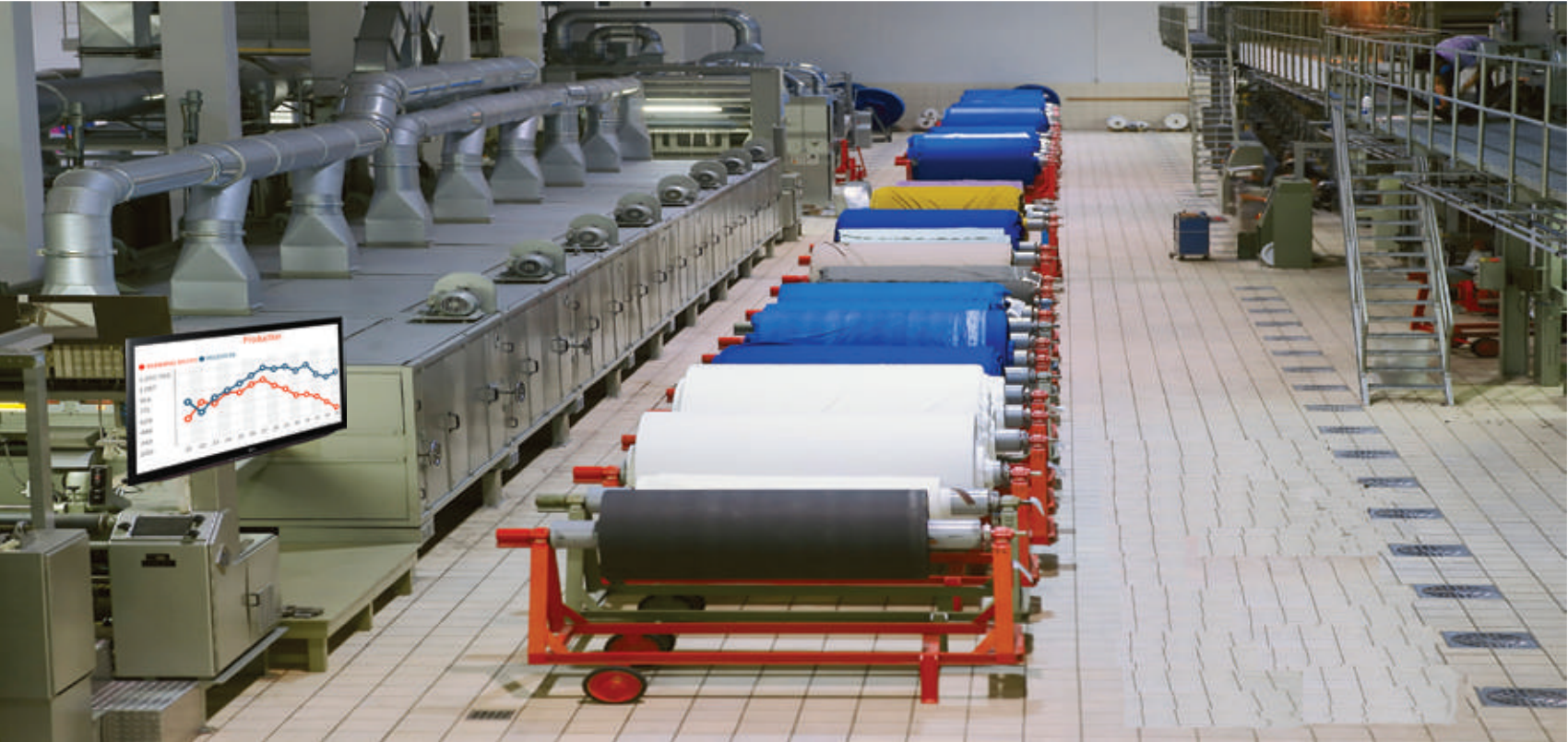
OVERDIGIT develops, manufactures and markets electronic products for industrial automation. Overdigit combine the world of PLCs with the new technologies and opportunities.



“We provide comprehensive industrial electrical services that include design, engineering, safety integration, automation and project management. These systems are helping organizations around Pakistan.”



OverDigit CPU with GSM & GPRS Options



Let's Improve your Profit Margins --- Production Management Solution

We offer our customers a Network of Machines which are controlled by individual PLCs networked and integrated into a single Production Management Solution (PMS). PMS is completely autonomous system which collects data from every machine swiftly and accurately for presentation on HMI custom-designed to meet essential requirements of field managers. With this modern system, each step in the production process can be monitored effectively to bridge the gaps in real-time.

Individual and collective monitoring of every machine can be done with these systems. Data processed through this system help in generation of reports. With these reports, the weak areas can be identified and smooth operations in the production process can be ensured. Production gets augmented, cost-effective and helps in reaping higher profits.

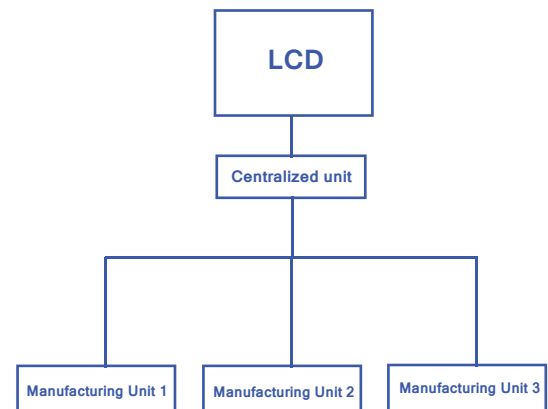
Precise downtime.

Accurate. Automated. Unbiased.

Get ready. You're about to see your true downtime. Every stop, every second but with microscopic details. It's exciting but at the same time it's intimidating.

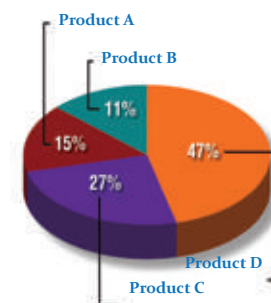
Most companies are shocked to discover their true downtime which is normally kept under the carpet. Even if you don't know it, it's still there. And once production time is lost — it's lost forever....

Our total end-to-end solutions are Quick, Easy and Cost Effective. We put you in control, with the Power to continuously Monitor, Evaluate and Manage your Plant Machinery over the Network with our flexible architecture and a complete range of sensors.



Graphical View

It's a simple idea.... Look at production from the perspective of your Top Losses. With crystal clear trend indicators and spark-lines (miniature graphs) that convey an entire story at a glance. That's how you could have a singular focus on improvement.



Our Projects

GlaxoSmithKline

Modification of Uhlaman Blister Machine.



GSK- one of the world's leading research-based pharmaceutical and healthcare companies. GSK was running its Carton Packaging Machine on relay based control system which has limited parameters to monitor such as Carton Pickup, Leaflet and solenoids for air control by just switching ON and OFF. They were found themselves stuck whenever they go for trouble shooting of machine as it requires a lot more time to diagnose the problem area when ever machine is at shutdown state.

Our Solution :

We proposed to switch the relay based control system to S7-1200 PLC based system and KTP-600 HMI for Real time monitoring of whole process. Error detection and trouble-shooting easily achievable within minimum time.



Naveena Eports

Modification of Kaser Compressor



Naveena Exports is a complete vertically integrated company engaged in manufacture of world class yarn and denim fabric.

2012, they installed a new compressor in their compressor division due to high consumption of air in their facility. Previously, they were running its control system to relay based electronic cards which was difficult to trouble shoot when they have encountered shut down.

Our Solution :

We proposed to switch the relay based control system to PLC based HMI for Real time monitoring of Compressor process.



Alkaram Textile

Production Management Solution



The Al-karam group was founded in March 1986 with a vision to be a provider of innovative textile solutions worldwide.

Previously production of al-karam textiles running their sizing without monitoring and recording data for over all process. They needed a solution in which they know overall production time including efficiency, down time and record maintenance on a visible location.

Our Solution :

We proposed them to overall monitor their machines performance on a single LCD communicating with Siemens S7 controllers and industrial PC by taking current status of machines as an input, speed reference, overall efficiency which includes its shutdown and maintenance mode.



Features and Benefits

- All machine's status is displayed on a single 52" LCD.
- Data logging of overall production is maintained and could be easily checked by just entering the require time and date on Industrial PC.
- Whenever machine go for shut down, it will automatically start counting its down time and recording until machine was restored to its original condition.

Other Projects

PRL: (Modification of Compressor)

Naveena Exports (Modification of packaging Machine).

Archroma (Modification of Dyeing Machine).

GSK (Modification of RO Plant Control System).

Eastern Garments (Modification of Compressor)

Heating, Ventilation and Air Conditioning

Based on the principles of thermodynamics, fluid mechanics, and heat transfer TCP's HVAC (heating, ventilation, and air conditioning) Design Team endeavors to provide thermal comfort and acceptable indoor air quality for medium to large industrial or office buildings. HVAC team delivers design optimized for Energy Efficiency in which safe and healthy building conditions at our customers' premises are maintained with respect to temperature and humidity, using fresh air from outdoors as well.

Our project managers have a deep understanding of design and engineering and there is strong collaboration on every project between designers, engineers and contractors. From the decommissioning of old HVAC plant through to new installations and refurbishment of existing systems, TCP's Solution Implementation Teams meets all the challenging requirements of our Clients.

Our Expertise

- Heating System
- Air Conditioning Systems
- Ventilation Systems
- Computer Room Cooling
- Boiler/Burner Service
- Heat Pumps
- Clean room Systems
- Steam Systems
- De-Humidification Systems
- Humidification Systems
- Energy Recovery
- Radiant Heating
- Ground Source Heating and Cooling

Equipment

- Chillers
- Central Air Conditioners
- Heat Pumps (Air Source and Geothermal)
- Package Terminal Air Conditioners
- Package Terminal Heat Pump
- Energy-Efficient Fan Motors
- Programmable Thermostats

Our HVAC controls line Includes:

- Actuators
- Dampers
- Valves Sensors
- Thermostats
- Heating Products
- Variable
- Speed Drives



Wasf Al Khaleej



 **Our Partner**

Wasf Al Khaleej Central Air Conditioning Company L.L.C., UAE is in the business for over 13 years who has acquired good expertise in HVAC systems over these years. Teknika Corporation and Wasf Al Khaleej have partnership and have undertaken joint Projects in HVAC design and installation in UAE. We've even worked to attain professional excellence and to make sure that we deliver HVAC services to both Housing and Industrial Sector broadly covering the following areas :

- HVAC System Design and Installation
- HVAC Control System Upgrade
- Cooling Units
- Split units
- Anti Rust Treatment

Your Process Requirement - Our Complete solution

Process Automation Instrumentation

- Programmable Controllers
- Drives & Motors
- Relays & Timers
- Circuit & Load Protection
- Motor Control
- Safety Products
- Sensors & Switches
- Motion Control

Process Control

- | | |
|------------------------------|--------------------|
| • Pressure Regulators | • Accumulators |
| • Hose | • Actuators |
| • Hose Crimpers / Swagers | • Flow Controllers |
| • Couplings | • Flow meters |
| • Cylinders | • Fittings |
| • Seals | • Flanges |
| • Strainers | • O-Rings |
| • Dryers | • Gauges |
| • Indicator Switching | • Pumps |
| • Enclosures | • Purifiers |
| • Tube Fabrication Equipment | • Controllers |
| • Extruded Seals | • Heaters |
| • Filters | • Valves |



SIEMENS

ABB

DELTA

MITSUBISHI ELECTRIC

Rockwell Automation
Allen-Bradley

YASKAWA

Danfoss

TOSHIBA
Leading Innovation >>>

OMRON

invt

Honeywell

WIKAI

EATON

Schneider Electric

FISHER

Parker

ASHCROFT

Swagelok

ANDERSON GREENWOOD

TEXTTEAM DRESSER

EH

Endress+Hauser

MURPHY
reliable innovation

COOPER
Crouse-Hinds

Global Partners

Sirius Controls



Sirius instrumentation and Controls Inc. (Sirius) was incorporated in April 2003 in Alberta, Canada. The company's focus is on the growing need for instrumentation that meets the changing environmental requirements within the oil and gas industry. Sirius provides a full spectrum of solar powered chemical injection systems, AC chemical pumps, environmentally friendly tank systems, solar products, zero emission instrumentation and conventional controls.

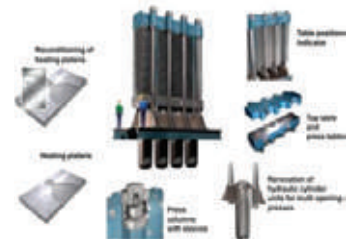


Solar Chemical Injection Pumps

Motala Verkstad



Motala Verkstad has an extensive experience to manage a complex projects on turnkey basis. Since 1937, hundreds of Hydraulic Presses and associated systems for hardboard, particle board, MDF, HDF Boards have been designed and manufactured. These Presses are also used in the manufacturing of large grinding wheels, sheet metal parts, components, rubber, aluminum and lead. The press technology is also used in the tensile strength tests of links and shackles to the main anchor chains production.



Andritz Automation



ANDRITZ AUTOMATION provide automation services and tools for a wide range of industries, including pulp and paper, mining, lime and cement, power, and oil and gas. Andritz provide complete automation solutions for process and quality control based on its products for advanced process control with BrainWave and Advanced Control Expert (ACE)



WellMark®



The WellMark® Instrumentation line includes liquid level switches and controls for use with Oil & Gas production equipment such as tanks, compressor scrubbers, separators, dehydrators and treaters, hazardous waste disposal and other production processes that require precise liquid level control or Hi-Lo level alarm systems.



Ruelco



Ruelco is one of the world's leading manufacturers of Instrumentation Controls. An array of CNC machines allows manufacturing of high precision Ruelco's products in the following categories: Pressure Switches, Dial Pilots, Level Switches, Cages and Relays.



ORION Solar



We have world renowned sources for cost- efficient, scalable, and flexible solutions both for conventional and solar airfield lighting. Our Solar airfield Lighting systems install speedily for maintenance-free operations without grid power, buried cable or airfield electrical vaults. With rugged, wire-free designs and sophisticated solar energy management systems, our products are ideally suited for use at locations around the globe:

- PAPI/APAPI
- Runway Lighting
- Taxiway & Apron Lights
- Helipad Lighting
- Wind Cones
- Airfield Signs
- Wireless Controls
- Obstruction Marking



Clients



Petrochemical

United Energy Pakistan

OMV

ENI Pakistan

Mari Gas

PRL

MOL

Pharmaceutical

Glaxosmithkline

Abbott

Textile Industry

Afroze Textile

Alkaram Textile

Akhtar Textile

Eastern Garments

Gul Ahmed

Mustaqim

Naveena Exports

Naveena Lahore

Siddiqsons Group

Yunus Textile

Lucky Textile

Style Textile

Interloop Textile

Kohinoor Mills

Sapphire Textile

Din Textile Mills

Amer Cotton Mills

Artistic fabrics mills

Orient Textile Mills

Food Industry

Youngs Food

Tapal Tea

Government Sector

SSGC

Others

IIL (International Industries Limited)

Orient Energy System

Archroma

Century Paper & Board Mills

Sole Products

Glass Level Gauge

TCP 8500 Series GLG Valves provide long trouble-free service at economical cost. Their design incorporates such quality features as stainless steel stems and ball checks. A comprehensive selection of connections provides the versatility required to conform to most piping requirements. Optional features permit a high degree of customization to meet very specific demands.

Serving Industries

- > Oil & Gas Sector
- > Textile Industries
- > Pharmaceutical
- > Chemical Process Industries

Media

- > Condensate water
- > Oil / Crude Oil



Model 8510
Union-Union Gauge Valve



Model 8500
Rigid-Union Gauge Valve

Drum Gauge

Aluminum drum gauges are an important part of a chemical injection skid. Drum Gauges are used to visually monitor the liquid level inventory in horizontal 55 gallon chemical storage tanks. In addition, several models come complete with a test valve to set the injection rate of a chemical metering pump.



Features

- > Volume Scale in gallons and liters is provided for visual reference
- > Chemical injection rate scale is calibrated in Quarts/24 Hours and Liters/24 Hours
- > Available in a wide range of materials for ultimate corrosion resistance
- > Models available to accommodate diaphragm operated pumps
- > Can handle pump rates up to 19.5 gallons per day and 74 liters per day
- > Installs easily in 3/4" NPT outlet of drum head

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