

## CORE VALUES

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Our extensive experience in a variety of disciplines is a significant advantage, which is reflected in making the right decision and professionally in accordance with the needs of the customer. Our accumulated experience, knowledge extension with existing solutions and continuous learning of new developments and technologies, allows us to provide the best solutions for the customer and project's needs.



***Shaniv Control and Automation  
sees a supreme value in providing quality  
and professional services and solutions  
to its customers while keeping  
their preferences and needs  
in a very high standard.***

## ABOUT US

Shaniv Control & Automation is a wholly owned engineering company that serves as a turnkey supplier and systems integrator of industrial control and automation systems. The company that now incorporates over 20 years of experience in many sectors provides a comprehensive range of effective solution in the following areas: plastic, metal, food and beverage, chemicals and fertilizers industries, as well as water and waste water treatment solutions. The company has an office in Israel and an office in Romania that serve customers in Israel, West Africa, Northern Europe and East Asia.

### **SHANIV CONTROL & AUTOMATION PROVIDES ALL PROJECT LIFE CYCLE ACTIVITIES:**

- project management and engineering
- software application design
- electrical and mechanical design and installation
- documentation
- project commissioning
- training
- support and on-site service
- spare parts and continued support service

# Sectors of expertise

## INDUSTRIAL SECTOR

### Shaniv Control and Automation provides the following solutions:

- Control systems of different production processes
- Machinery and automation control in the production floor
- Servo driving and accurate motion control applications
- SCADA and HMI application
- Robotics pick-and-place, handling and palletizing applications
- Camera inspection, guidance and identification applications
- Upgrading, conversion and renovation of old control systems



## WATER TREATMENT SECTOR

### Shaniv Control and Automation provides the following solutions:

- All municipal needs for a high quality drinking water supply from various intakes such as:
  - Brackish water (wells and other sources)
  - Sea water desalination
  - Surface water (rivers, lakes)
- Technologies for processing water for a variety of industrial needs:
  - High pressure boiler feed water
  - Semiconductors and Electronics
  - Mining
  - Textiles
  - Chemicals and Fertilizers
- Filtration systems
- Dosing & Blow-down systems (DBD)
- Disinfection systems
- Ion exchange systems
- Membrane systems
- Electro de-Ionization

## CHANEL PARTNER OF ABB

Shaniv Control and Automation is an official channel partner of ABB for robotics systems. Our good experience and knowledge brought ABB to authorize us as an official distributor of their robotics systems. Shaniv Control and Automation provides to its customer full turnkey solution for pick-and-place, palletizing, product and material handling application based on ABB fine robotics technology.



## PcVue - CERTIFIED PARTNER



Shaniv Control and Automation is a certified partner of ARC Informatique from France, supply and supports the innovative PcVue SCADA system to its clients in the territory of Israel and Romania. PcVue is a fully-featured product that represents the latest advances in SCADA software for multi-station monitoring and control. PcVue provides a flexible solution for supervising industrial processes, utilities and infrastructure. It meets industrial standards of reliability and performance while maintaining the user-friendliness of an office application.

## PARTNERS IN TECHNOLOGY

All the systems we provide consist of the finest construction materials, based on superior technology and operated by state of the art control equipment. All of that assures production continuity with a high level of reliability. We use in our projects instrumentation and control systems manufactured by technology leaders such as ABB, Siemens, FESTO, Schneider Electric, Sick etc.

**FESTO**

**SIEMENS**

**SCHNEIDER  
ELECTRIC**

**SICK**



# Showcases

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## **CONTROL SYSTEM FOR FISH FEED MANUFACTURING PLANT**

LOCATION: GHANA, WEST AFRICA

**Project Application:** Control system for a production plant that manufactures fish feed for the fish farming industry.

**Supply Scope:** Design and engineering of control electrical cabinets, software application design, on-site commissioning and continues on-site support service and on-line over the Internet. The control system is based on Schneider Electric MODICON PLC and a Citect SCADA.



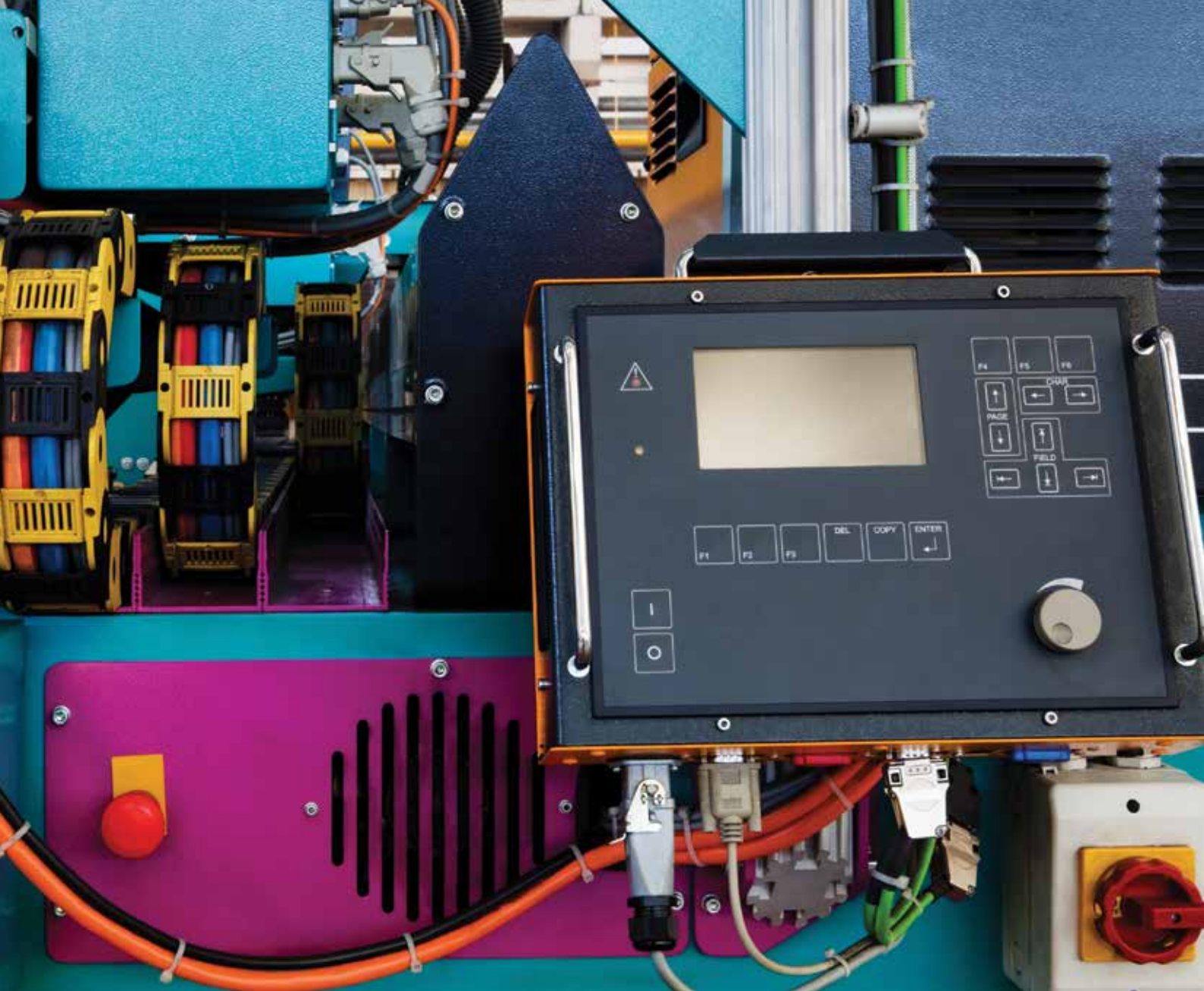
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## **THE KISHON PROJECT**

LOCATION: HAIFA, ISRAEL

**Project Application:** The Kishon Bay Project is designed to treat eight (8) million cu\m\year of cooling High Pressure Boiler Feed Water (BFW). The system includes sub-systems for water treatment, concentration disposal, treated water and recycled water. Strict regulations require us to consider every aspect, and design the process with great care, treating the water and the concentrate according to the safest methods of disposal.

**Supply Scope:** We are capable of designing and presenting a full 3D simulation of the proposed system prior to manufacture and implementation. Our Quality assurance system is involved all the way from Step A to the final step, ensuring the highest performance throughout. We supply the complete system including pumps, pipes, infrastructures, analytic instrumentation, MCC electric cabinets and control cabinets, PLC system and SCADA software programming, control room design, quality control laboratory.



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### **HANDLING SYSTEM FOR MICROCHIPS TESTING SYSTEM AT INTEL®**

LOCATION: HAIFA ISRAEL AND USA

**Project Application:** Design and manufacturing of control and motion system for loading and unloading electric boards with microprocessors into performance testing systems.

**Supply Scope:** Design, production of the whole control and servo motion system (X, Y, Z axis) including communication to third party sub systems in plant, SCADA, motion and PLC software application.



# Showcases

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## **CONTROL OF A WELDING SYSTEM FOR A LEADING VEHICLE MANUFACTURER IN JAPAN**

LOCATION: JAPAN

**Project Application:** Design, engineering and manufacturing of a complete welding system solution including the welding process and the robotics system for one of the leading vehicle manufacturer in Japan. The system is designed for the vehicle chassis welding.

**Supply Scope:** Complete software application design and programming of the PLC and HMI interface as well as other communications to the robotics systems and manufacturing plant floor.



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## **CONTROL SYSTEM UPGRADE FOR AUTOMATIC CEMENT BLOCK PALLETIZER**

LOCATION: MODIYM, ISRAEL

**Project Application:** Replacement of an old cement block palletizer control system. The palletizer was installed over 20 years ago by Besser (USA). The original control system is based on Allen Bradley PLC02 PLC.

**Supply Scope:** Complete replacement of the old Allen Bradley PLC02 with a new ABB AC500 PLC including a new SCADA station in the main control room and another operator panel on the machine for the local operator.





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## **CONTROL SYSTEM FOR VEHICLE PARTS ASSEMBLY**

LOCATION: HAZOR, ISRAEL

**Project Application:** Design and engineering of the whole electric and control system for an assembly machine for vehicle motor parts.

**Supply Scope:** Supply of electric control cabinet with PLC, HMI and 3-axes motion system delivered from FESTO. PLC and HMI programming, full on-site commission.

# Showcases

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## **PLANT CONTROL SYSTEM FOR CEMENT MANUFACTURING**

LOCATION: TIBERIAS, ISRAEL

**Project Application:** Central control system design for operating plant for casting concrete beams for bridges.

**Supply Scope:** Design and engineering of the whole control system including the main plant's PLC and SCADA system. The SCADA has a large application designed to be operated by plant technical engineering staff, maintenance staff and production management team.



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## **CONTROL SYSTEM FOR MEMBRANE CO<sub>2</sub> CAPTURE PLANT**

LOCATION: BREVIK, NORWAY

**Project Application:** Control and monitoring system for the plant.

**Supply Scope:** Design and engineering and installation of the whole electric and control system including the main PLC and SCADA system. The SCADA is used for the plant operation, data monitoring and logging.





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## CONTROL SYSTEM FOR ASPHALT PRODUCTION PLANT

LOCATION: HAIFA, ISRAEL

**Project Application:** Planning and programming the control and SCADA systems of the plant. The asphalt batches are manufactured according to recipes and batch weight targets that are written by the factory production engineer. The asphalt batch is fed into the delivery trucks.

**Supply Scope:** Supply and programming of the Mitsubishi PLC and Citect SCADA systems.

# Showcases

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## **MILK CARTON CONTAINERS PACKAGING LINE**

LOCATION: TEL AVIV, ISRAEL

**Project Application:** Robotic packaging and palletizing system for carton milk containers inside empty plastic box delivered to the market.

**Supply Scope:** Design, engineering and installation of the whole electric, control and ABB robotic system including the main Siemens PLC and Siemens HMI systems and the ABB robot application.



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## **SHAMPOO PRODUCTION PLANT CONTROL SYSTEM**

LOCATION: MAALOT, ISRAEL

**Project Application:** Control system of hair shampoo manufacturing line.

**Supply Scope:** Design, engineering, programming and supply of the whole control system of 2 production lines in the same plan. The control systems are based on Schneider Electric MODICON M340 PLC and Vijeo Citect SCADA system.

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## **CONTROL SYSTEM FOR TERTIARY WATER TREATMENT FACILITY**

LOCATION: ACRE, ISRAEL

**Project Application:** Programming of the main facility control system.

**Supply Scope:** Programming of the whole control system of the facility based on Schneider Electric MODICON Quantum PLC and Control Maestro SCADA system.





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## **CAR BATTERY CASE PRODUCTION**

LOCATION: NATANYA, ISRAEL

**Project Application:** Supply a robotic application for preparing holes in the battery part for the electric conductors

**Supply Scope:** Design and manufacturing of a robotic system based on Denso robot. Complete mechanical, electrical and control design, manufacturing and on-site installation.



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