

اشتكس  
ASHTECHS

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**WATER TREATMENT**  
SOLUTIONS

# ABOUT US

Ashtechs was founded in Alexandria, Egypt in 1993

Our trading business supplies high quality equipment to local and regional customers

Our design and engineering team develops inovative solutions for your process

Our operations team installed and comissioned equipment in various countries of the MENA region

**Our vision is to be a trusted and reliable source of quality equipment, technological expertise and professional service.**

# ADVANCED METALWORKS FOR WATER TREATMENT

## PROCESS EQUIPMENT

Process equipment are at the heart of every water treatment plant

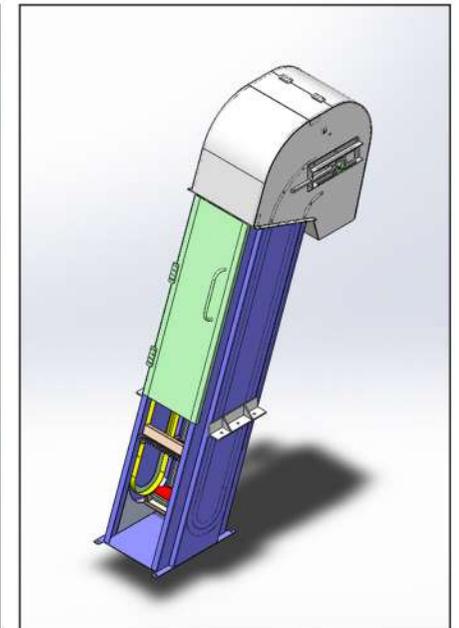
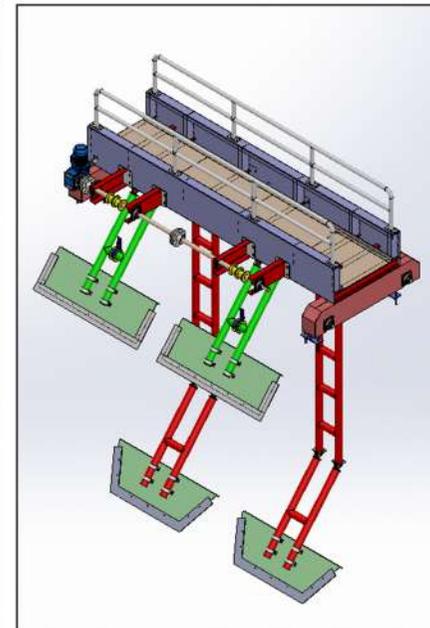
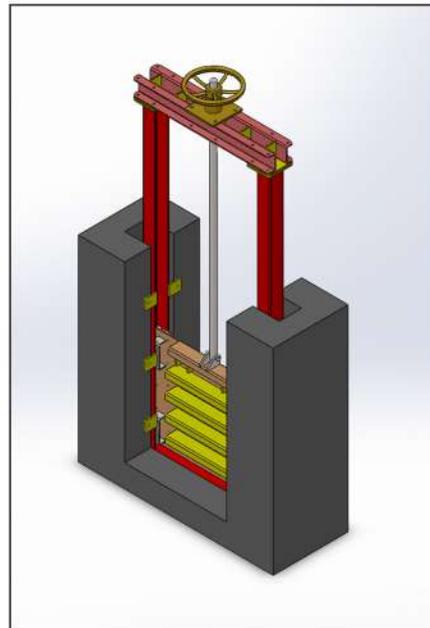
Our design teams and our suppliers engineering capabilities ensure you the most suitable equipment for your operation.

Smart designs combined with high quality materials provides you electromechanical components that are reliable, durable and easy to maintain

**Durability, Easy installation, Simple maintenance = CONTINUOUS OPERATION AND LOW RUNNING COSTS**

### APPLICATION:

- Potable water treatment
- Waste Water treatment
- Fish Farms



# ELECTRIC SYSTEMS

POWER  
DISTRIBUTION  
PANELS  
+  
PLC CONTROL  
PANELS

**Distribution panels** ensure the delivery of electric power to every point of your plant in a safe reliable and controllable way. Our panels are built with the latest components in collaboration with the biggest names in the industry

**PLC systems** add a smart layer to your circuits. It allows monitoring and controlling the performance of every point to deliver optimum performance. Our programmers build PLC software to match your demand and implement your operational procedures

**IOT is the ultimate smart layer** Connecting your circuits to the internet opens the way to a higher level of monitoring and control in order to guarantee the performance and maximize the efficient operation of your system

#### APPLICATION:

- *Water treatment*
- *Water desalination*
- *Industrial water*
- *Chemical industries*



# BLOWERS + AERATION SYSTEMS

## DIFFUSED AIR

Aeration systems based on blowers and tubular membranes diffuser deliver oxygen to your application in a very efficient way.

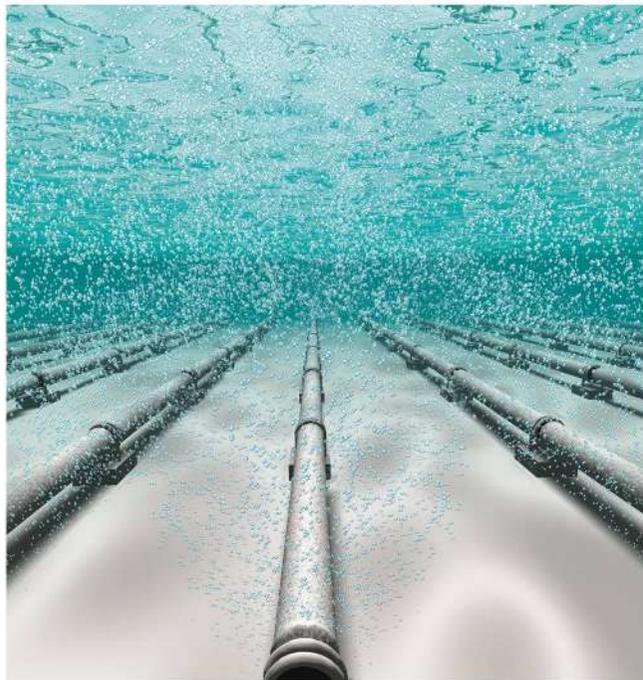
These systems are robust and easy to maintain offering you a simple and reliable solution to your aeration needs.

Capacities of up to 20,000 m<sup>3</sup>/hr per blower and the modular systems designs means that we can cover all your oxygen requirements

**High efficiency, Easy installation, simple maintenance = LOW OPERATING COSTS**

### APPLICATION:

- Potable water treatment
- Waste Water treatment
- Fish Farms



**DMYCHADLA  
ROOTS BLOWERS**



CONTROLLERS  
+ SENSORS  
+ METERS

# INSTRUMENTATION

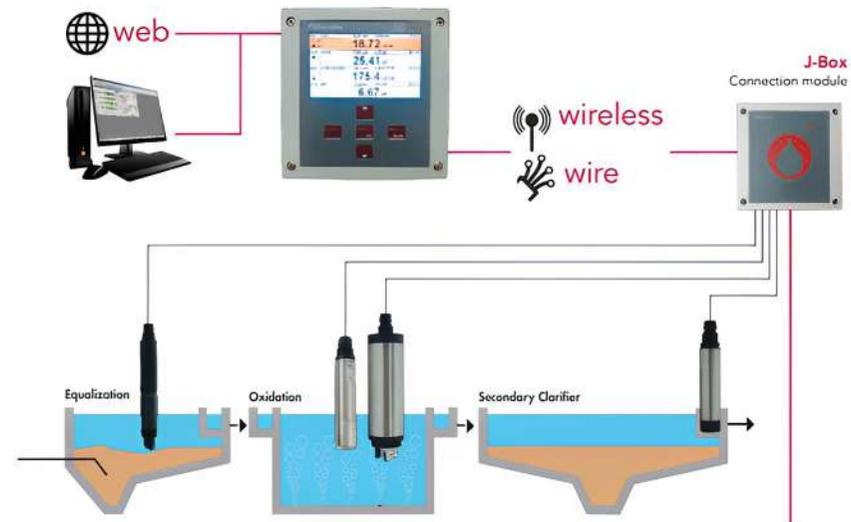
CHEMITEC offers a wide range of sensors and controllers to monitor the performance of your water network and ensure the correct operation of your process

Our sensors are "plug & play" and easy to install and deliver an online reading of the quality of water such as: **PH, ORP, Conductivity Dissolved Oxygen, Chlorine and Ozone** contents  
**Flowmeters, pressure switches, level meters and temperature** sensors take live quantitative readings and feeds them directly into your PLC and process control

## APPLICATION:

- Chemical process
- Drinking water
- Waste water
- Industrial water
- Cooling towers
- Swimming pools
- Fish Farming
- Irrigation

**Chemitec**  
world class water monitoring series 50



REVERSE OSMOSIS  
+  
ULTRAFILTRATION  
+  
ELECTRODE  
IONIZATION

# WATER TREATMENT

Industrial **reverse osmosis** main purpose of which is high-quality large-scale water desalination. The size of the removed particles is up to 0.001 microns.

HELYX manufactures highly efficient **ultrafiltration systems** that are a modern alternative to pressure filtration in granular media.

**Electrodeionization** units HELY EDI are designed to produce deeply demineralized water.

Depending on the required degree of water purification, integral membrane technologies are used as pretreatment before EDI.

**The modular construction of these systems allows for quick deployment, easy construction and the possibility to expand existing plants.**



FIBER GLASS TANKS  
+ FILTER HOUSINGS

# WATER STORAGE

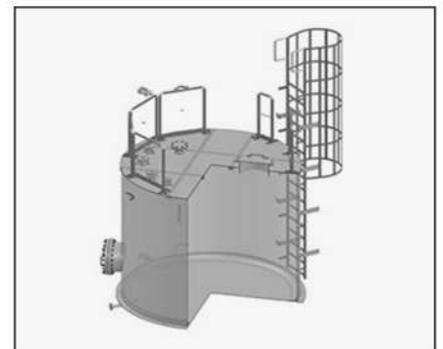
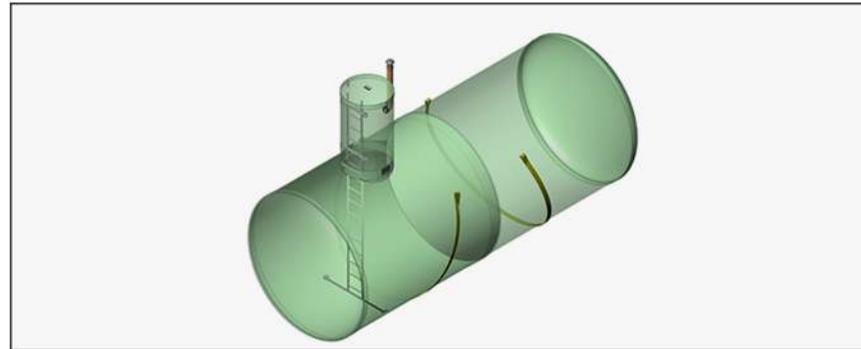
**HELYX WATER** manufactures filter housings for water treatment and water treatment systems, including filter housings of the filling type.

Helyx is a manufacturer of storage tanks and reservoirs for water, acids, alkalis, concentrated salts and other chemical liquids.

We make products from composite materials (fiberglass) using a special epoxy vinyl ester resin that is resistant to a wide range of aggressive media. The containers are used for collecting, storing and dispensing products.

## APPLICATION:

- *Water treatment*
- *Water desalination*
- *Industrial water*
- *Chemical industries*



# REFERENCES



- **El Zagazig - El sharkia Egypt** - Mechanical equipment + electric power pannels + control system
- **El Fayoum** - Aerators + electric power pannels + Cabling
- **West Sohag** - Gearboxes + Aerators
- **El Gharbiya** - Gearboxes + control systems
- **El Menyah** - Aerators + electric power pannels + Cabling + control system
- **Rod el Farag - Cairo** - Clarifier bridge drives
- **El Khairy - El Baheira** - Vertical Aerators + Electric panels
- **15 May- Cairo** - Blowers and diffused air

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ASHTECHS | WATER  
TREATMENT  
SOLUTIONS

**Ashtechs - Antoine Krikor & co.**

22 Imam Aly square  
Heliopolis , Cairo  
Egypt

Phone: + 20 22291 4023  
+ 20 22291 4061

Cairo@ashtechs.com  
www.ashtechs.com