



**WE DO IT OURSELVES,  
WE DO IT RIGHT**

# ABOUT US

**Dar El Meyah** for Supplies & Contracting is an S.A.E company highly specialized in desalination, water treatment and wastewater treatment products and projects.

**Dar El Meyah** also has in-house engineering and contracting capabilities so we can provide our clients with complete solutions.

We help the industries increase production, reduce costs and protect the environment by providing solutions for desalination, water treatment and wastewater treatment.

**10+**  
YEARS

**50+**  
PROJECTS



## VISION

To be an Egyptian company with an international profile and qualifications serving a wide sector of our society through our tailor made solutions.



## MISSION

Dar El Meyah team is committed to provide innovative and cost effective solutions to our clients in the field of water and wastewater treatment application.



## OUR PURPOSE

We make the world cleaner, safer and healthier – protecting people and vital resources.



# SERVICES



## PRODUCTS

### **Ion Exchange products:**

- Ion Exchange Resin (Cation, Anion, MB, Specialty Resins)
- RO Membranes BW & SW (4 & 8 )
- UF modules PVDF and PES
- Cartridge Filter candles
- Polymers
- Antiscalants
- Test Kits

### **Burkert Instrumentation**

- Analytical instruments (PH, ORP, Cond, turbidity, etc.)
- Measurement (Pressure, Flow, Temp, etc.)

### **Shurjoint Grooved Couplings**

- SS - 8X: Stainless Steel Heavy Duty Flexible Coupling
- SS-1200: Stainless Steel High Pressure Flexible Coupling



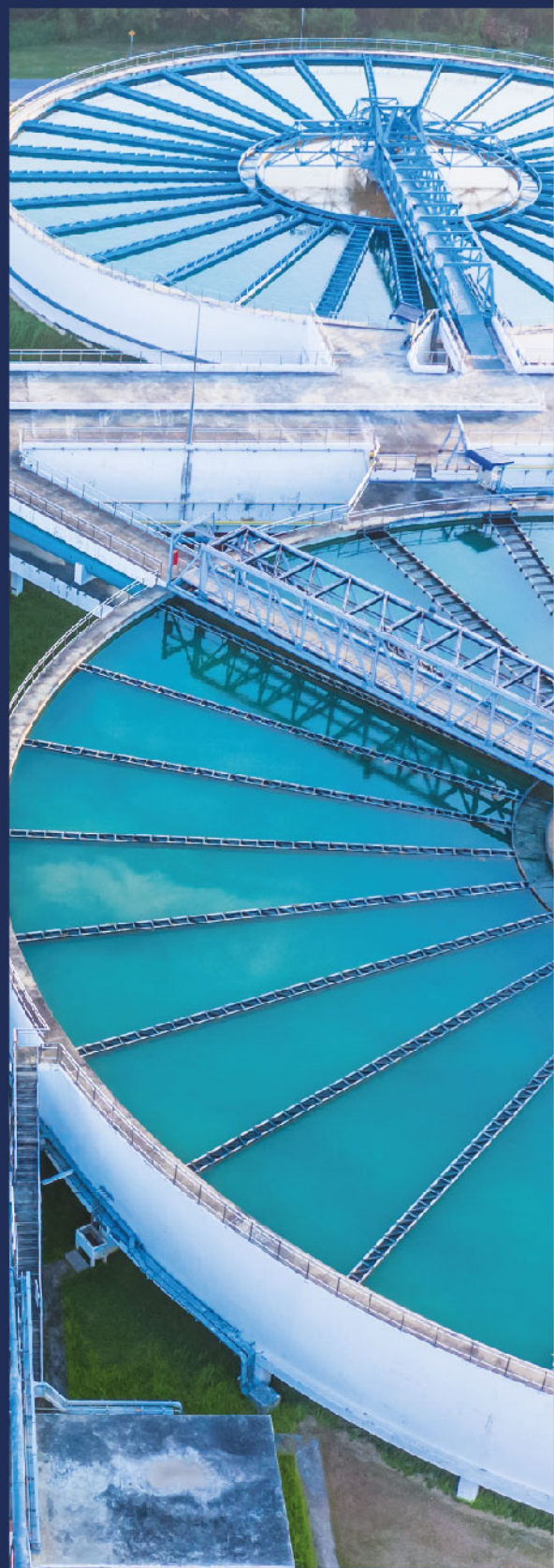
# PROJECTS

## Water Treatment

- Water Desalination
  - Brackish Water Desalination
  - Sea water Desalination
- Demineralization
- Filtration and Ultra Filtration
- Softening
- Chlorination and Disinfection

## Wastewater Treatment

- Sewage Treatment Plants
- Industrial Wastewater Treatment Plants





**ION EXCHANGE**

*Refreshing the Planet*

## RO Membranes:

### Sea water element (SWE)

HYDRAMEM SWE is a high performance membrane which ensures product reliability and consistent performance thus meeting stringent water quality requirements.



### Brackish water element (BWE)

HYDRAMEM brackish water elements give one of the best-in-class rejection and at the same time provide optimum permeate flow. Its applications include generation of drinking and high purity water as well as treatment of process and treated wastewater.



### Low pressure element (LPE)

HYDRAMEM - High Performance Membranes manufactured by Ion Exchange belong to the latest generation of membrane technology. Superior quality and decades of experience in manufacturing membrane elements make HYDRAMEM the favored choice for all industrial, institutional, and domestic applications.





## Resin:

### Cation NA225

INDION 225 Na is a high capacity strongly acidic cation exchanger in bead form. It is based on cross linked polystyrene and has a gel structure. The resin contains sulphonic acid functional groups. It is supplied moist in the sodium form.



### Anion GS300

INDION GS 300 is a strong base Type 1 anion exchange resin, containing quaternary ammonium groups. It is based on crosslinked polystyrene and has a gel structure with high mechanical strength.

### Mixed Bed MB11

INDION MB 11 is a mixed bed ion exchange resin. It is a mixture of highly purified and super regenerated strong acid cation and strong base anion resins in 1:



## UF Modules:



**Hydramem** Ultrafiltration Modules are hollow fiber membranes designed for treatment of wide variety of applications such as Brackish Water (Ground, River & Surface), Municipal Waste, Industrial Effluents & Sea Water for Potable as well as Process use. **Hydramem** UF modules are available in both configurations: Modified PES fibers (In to Out) and PVDF fibers (Out to in).



**bürkert**  
FLUID CONTROL SYSTEMS



Bürkert Fluid Control Systems is one of the world's leading manufacturers of measuring, control and regulating systems for fluids and gases.

Bürkert products are used in a wide range of industries and applications – ranging from breweries and labs to medical, bioengineering and aerospace technology. With a portfolio of more than 30,000 products Bürkert is the only supplier to offer all fluid control system components: from solenoid valves to process and analytical valves, as well as pneumatic actuators and sensors.

The company, with headquarters in Ingelfingen in southern Germany, has a large-ranging sales network in 36 countries and more than 3,000 employees worldwide. In five system houses in Germany, China and the USA, as well as four research centers, Bürkert continuously develops customized solutions and innovative products.

## Instrumentation:

### pH, ORP Sensors

Type 8202 is a compact measurement device for pH values in liquids that are clean, dirty, or contain sulphide or protein or redox potential (ORP) value in clean or dirty liquids, liquids with sulphide or protein, and liquids that have a low conductivity.





## conductivity Sensor

The conductivity sensor consists of a compact probe with integrated electrodes. Four conductivity probes with different cell constants are available and offer a broad measurement range.

## Conductivity meter

The Bürkert conductivity meter Type 8222 is designed for measuring the conductivity of fluids. The sensor element comprises a two-electrode cell and a Pt1000 temperature probe.



## Chlorine Sensor

The 8232 from Bürkert is an electrochemical sensor for measuring the free or total chlorine content of an inorganic source (chlorine gas, sodium hypochlorite solution, ...)

## Solenoids:

### Solenoid valves

Our Solenoid valves for liquid and gases are available direct-acting or servo-assisted, Select now!





## Solenoid control valves

Burkert proportional valves with electromagnetic electromotive drive customized solutions for your specific needs.

## Controllers:

### Multicell 8619

The 8619 multichannel and multifunction transmitter/ controller for connection of sensors which deliver raw signals for pH, ORP, conductivity and flow via pulses or sensors (like pressure, level, chlorine...) which deliver analogue signals (0...20 mA, 4...20 mA, 0...2 V, 0...5 V, 0...10 V).



### Online analysis system

Type 8905 Online Analysis System is a compact and modular system for monitoring all important water parameters on one platform. The efficient device integration platform (EDIP) allows a high flexibility by using modularity in the hardware as well as in the software of the system.

### Universal controller

Thanks to its compact design, the universal 8611 controller is especially designed for compact control system applications. It is compatible and tested with all Bürkert proportional valves and sensors and can be connected with every non-Bürkert Control valve by standard signal (4...20 mA, 0...10 V or PWM-output).





## Temperature Sensor

Resistance thermometers are the preferred choice for measuring the temperature of liquids and gases. The design offers reliable tightness under negative and positive pressure. The measuring insert is equipped with a Pt1000 temperature sensor according to DIN EN 60751, Class A.



## Level UT

The type 8177 is a non-contact ultrasonic level measuring device, designed for continuous level measurement in open or closed vessels. The unit is suitable for liquids, but also for solids, in virtually all industries, particularly in water and waste water management.

## Insertion flowmeter

The Type 8025 flowmeter or batch controller is specially designed for use in neutral, slightly aggressive, solid-free liquids. Type 8025 flowmeter is offered in different versions.



## Devices:



## Flow inline

The Type S055 magnetically inductive flow sensor (compact or separate version) is suitable for liquids with a minimum conductivity and for use in applications with requirements in areas of water measurements.



## Temperature Transmitter

This intelligent threshold detector/transmitter with an extra large display is specifically designed to monitor limit values or an ON/OFF or continuous control loop. Two versions are available: the 8400 Compact and 8400 for wall mounting.

## Pressure Transducer

This pressure transmitter is designed to cover the majority of industrial applications in the field of pressure measurement technology. High accuracy, compact design, robust construction and flexibility make the transmitter suitable for various measurement tasks.



## Valves:

### PVC- BFV/Ball/Check

2/2- and 3/2-way ball valves with manual override in plastic for separating medium flow. Different body versions and materials can be ordered to suit various applications.



### Globe Valves Manual/Automatic

In line with Bürkert's philosophy the construction of the type 2301 globe valve fulfils tough criteria for process environments. Unrivalled cycle life and sealing integrity is guaranteed by the proven self adjusting spindle packing with exchangeable

V-seals



## **Actuated valves electric/pneumatic**

Easy installation and highest performance - that's what the innovative Burkert valve programme stands for, with its electromotive actuators as well as advanced control technology



## **Metallic Valves BFV/Ball/check**

2/2-way ball valve in stainless steel for separating medium flows. The ball valves can be connected via the mechanical interface to a pneumatic or electric rotary actuator. Benefits - low torques - high flow values - high medium pressure - long service life - maintenance friendly.





Shurjoint is one of the key Aalberts integrated piping systems brands for mechanical piping systems. Aalberts integrated piping systems develops the most advanced integrated piping systems for distribution and control of liquids and gases.

These systems are used in various markets such as industry, utility and residential construction. Shurjoint offer fully integrated piping systems in valve, connection, fastening and piping technology.

### **SS – 8X: Stainless Steel Heavy Duty Flexible Coupling**

The Model SS-8X is designed for high pressure applications including reverse osmosis and desalination systems.

The SS-8X is available in stainless steel 304, stainless steel 316, Duplex CD3MN (2205), Super Duplex CE8MN, CE3MN (2507) and 6-Moly stainless steel CK3MCuN (254SMO\*).

The SS-8X features 316 bolts, washers and Silicon Bronze nuts to help prevent galling during repetitive use.



### **SS-1200: Stainless Steel High Pressure Flexible Coupling**

The Model SS-1200 is designed for high pressure applications including reverse osmosis, desalination and other specialty systems. The SS-1200 is available in strong and anti-corrosive alloys of Duplex CD3MN(2205), Super Duplex CE8MN, CE3MN (2507) and 6-Moly stainless steel CK3MCuN (254SMO\*). The SS-1200 features 316 bolts, washers and Silicon Bronze nuts to help prevent galling during repetitive use.



# WATER TREATMENT PLANTS

## Reverse Osmosis Plants



Our skid mounted reverse osmosis plants range from tap water, brackish water to seawater desalination and cover all type of applications including drinking water, potable water, irrigation water and process water.

We design our plants to work on the most conservative and efficient electrical and chemical consumption.



# Filtration Units



Media filtration is a frequently used process because it is very robust method to remove suspended solids from water. The filtration medium consists of a multiple layer of sand and other granular materials with a variety in size and specific gravity to deal with different types and sizes of suspended as well as dissolved solids

## Disinfection Systems

- Kill harmful bacteria
- Eliminate sulfur (hydrogen sulfide) odors
- Oxidize iron, manganese for easier filtration
- Low cost and very effective
- Can be done using liquid and gaseous chlorine solutions





## Softeners

- Removal of calcium and magnesium hardness.
- Used for laundries, dying, pharmaceutical applications.
- Used for every hotel and coffee shop to protect the steaming machines
- Supplying complete systems as well as the brine and different types of resin.



## De-ionization systems



There are three ways in which ion-exchange technology can be used in water treatment and purification: first, cation-exchange resins alone can be employed to soften water by base exchange; secondly, anion-exchange resins alone can be used for organic scavenging or nitrate removal; and thirdly, combinations of cation-exchange and anion-exchange resins can be used to remove virtually all the ionic impurities present in the feed water, a process known as deionization. Water deionizers purification process results in water of exceptionally high quality for re-use and residential filtration since it is NSF approved and approved from Ministry of health.

# Ultra Filtration systems

Ultrafiltration (UF) technology uses a membrane barrier to exclude particles as small as 0.01 microns, including bacteria, viruses and colloids.

Advantages of UF compared to conventional treatment such as clarifiers and media filters, are its high tolerance to feed water quality upsets, absolute barrier and improved water quality.

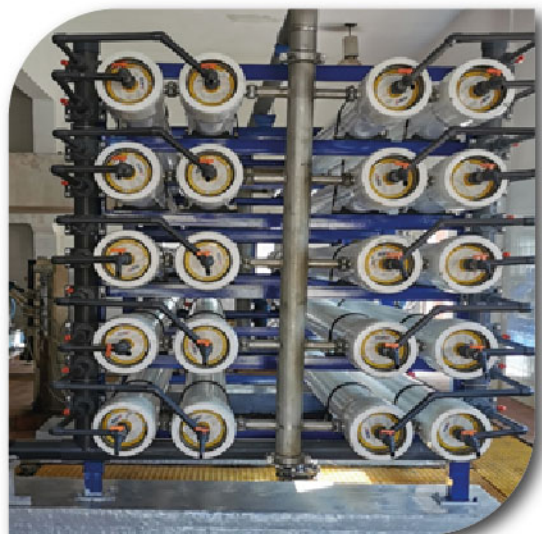
Ultrafiltration (UF) is the solution for surface water treatment, industrial waste re-use and residential filtration since it is NSF approved and approved from Ministry of health .



## Featured Projects

### Seawater RO plants:

- ▶▶ Seawater Desalination Plant With Capacity 1500 m<sup>3</sup>/d





## ►► Containerized Seawater Desalination plant With Capacity 266 m<sup>3</sup>/d



## Brackish water RO plants:

### ►► Brackish water Desalination Plant With Capacity 300 m<sup>3</sup>/d





# WASTEWATER TREATMENT PLANTS

## Sewage Treatment Plants:



### Various technologies of domestic sewage plants:

- Conventional activated sludge treatment plant
- Extended aeration treatment plant
- Sequential batch reactors (SBR)
- Membrane bioreactors (MBR)
- Moving bed biofilm reactor (MBBR)
- Chemical treatment plants

# Featured Projects

## Sewage Treatment Plants:

- Sewage treatment plant With Capacity 800 m<sup>3</sup>/d



- Sewage treatment plant With Capacity 500 m<sup>3</sup>/d





## 2 – Industrial Wastewater Treatment Plants

**Various technologies of industrial wastewater treatment plants:**

- Pretreatment equipment
- Gravity oil separation
- Dissolved air flotation
- Chemical precipitation
- Biological treatment
- Sludge Dewatering



## Featured Projects

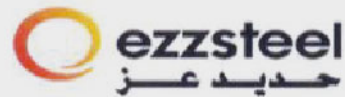
### Industrial Wastewater treatment Plants:

- ▶▶ Industrial wastewater treatment plant With Capacity 1200 m<sup>3</sup>/d





# OUR MAIN CLIENTS:





# CONTACT US....



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