



MAXINTM

Revitalize

Maxin Hydro Dynamic India Pvt Ltd

MAXINTM

Revitalizing sources in to resources

for Industry, Infrastructure and the Environment

MAXIN is dedicated to bringing the most valuable solutions and providing the best customer experience in meeting water and environmental needs through our innovative technology solutions, products and services.





VISION

MAXINTM



Maxin will be the most respected and valued company in the global water industry in the eyes of its customers, employees, stakeholders and the communities in which we work.



MISSION

Maxin is dedicated to bringing the most valuable solutions and providing the best customer experience in meeting water and environmental needs through our innovative technology solutions, products and services. We will make deep positive contributions to industry, society and the environment.



COMPREHENSIVE TECHNICAL SOLUTION FOR NATIONS WATER SCARCITY





Over
500
installations all
across the country

Offices: Bangalore | Hosur | Tirunelveli
Chennai

SUSTAINABILITY

PERHAPS MAXIN IS THE ONLY
COMPANY PROVIDING WHOLE
GAMUT OF WATER TREATMENT
SOLUTION IN THIS REGION

More than
40
employees

*State-of-the-art
fabrication,
piloting, and
chemical formulations
capabilities*

EXPERTISE IN THE FIELD

PROVEN PERFORMANCE | GENUINE INTEGRITY

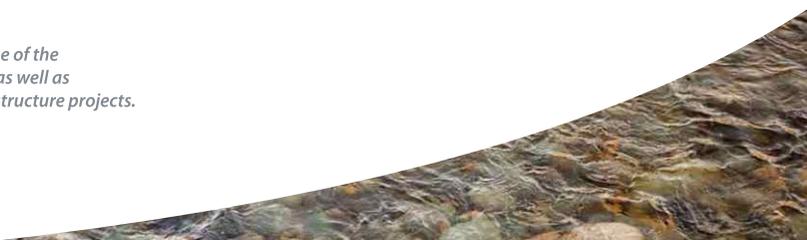
TECH SAVVY:

- Zero liquid discharge
- Desalination
- Reverse Osmosis
- Biological waste water treatment
- Evaporation
- Deionization

SECTORS WE SERVE:

- Automotive Industries
- Community & institutions
- Food & Beverages
- Pharmaceuticals
- Electronics & Semi Conductors
- Petro Chemicals

Our customers include some of the
worlds largest companies, as well as
major municipal and infrastructure projects.



SEAWATER DESALINATION

A large industrial seawater desalination plant. The image shows a complex network of stainless steel pipes, tanks, and structural steel frameworks. A prominent feature is a large, vertical, blue-painted component, possibly a heat exchanger or a membrane module, situated in the middle ground. The background is a clear blue sky. The overall scene is a detailed view of the infrastructure used for desalinating seawater.



TYPICAL DESALINATION TECHNOLOGIES

- Sea water Reverse Osmosis
- Mechanical Vapour Recompression
- Salt Recovery.
- Multistage Distillation

Maxin is one among the few companies in INDIA offering reverse osmosis based and thermal based desalination plants. Maxin is committed to reducing our clients recurring expenses towards energy and water foot prints by providing best customer experience in the process.

Sea water Desalination
at Tuticorin

MAXINTM REVITALIZATION

SEA WATER DESALINATION TECHNOLOGY



CONSERVE ENERGY TO PRESERVE FUTURE

Maxin has developed LoWatt technology to focus on membrane desalinations two biggest pain points: biofouling and energy consumption. Our proprietary process couples cutting edge pretreatment, an innovative cleaning cycle, and decades of RO plant design to deliver:

Increasing plant availability through fewer cleanings

A proprietary osmotic cleaning cycle

A reduction of power consumption up to 20%



TRADE EFFLUENT





Meeting Our Clients Every Need

TYPICAL TECHNOLOGIES

- COAGULATION
- FLOCCULATION
- FILTRATION
- SLUDGE DEWATERING
- MICRON FILTRATION
- ULTRA FILTRATION
- NANO FILTRATION
- SOFTENING
- REVERSE OSMOSIS
- ELECTRODEIONIZATION
- MECHANICAL EVAPORATION
- AGITATED THIN FILM DRYER

Our strive towards excellence approach and customized design makes us one stop solution on water treatment projects in this region.

For applications such as boiler feed water, chiller and process steam generation, Maxin customized and packaged treatment systems and products have created maximum flexibility and value for our valuable clients around this region.

Multiple Effect Evaporation
at SIGMA ALDRICH
Bangalore

**MAXIN™
REVITALIZATION**

**MULTIPLE EFFECT
EVAPORATION TECHNOLOGY**



Integrated Industrial Waste Water Management is one of the largest water recovery systems around the world.

Industries can wisely reuse the trade effluent for their manufacturing process by using Zero Liquid Discharge systems. It normally consists ETP, RO EVAPORATOR and ATFT. Especially Multiple Effect Evaporation Technology is using for treating concentrated Effluent and the Evaporator condensate can be utilized for cooling water treatment Boiler feed and other applications.



BIOLOGICAL TREATMENT





Harnessing a Valuable Resource

TYPICAL BIOLOGICAL TREATMENT PROCESSES

- Oil Trap
- Screening
- Advanced oxidation
- Aerobic Biological Treatment
- Up flow anaerobic sludge blanket Reactor
- Activated sludge process
- Sequence Batch Reactor
- Moving Bed Bioreactor
- Fluid digest bioreactor
- Membrane Bioreactor
- High Rate Solid Contact

clarifier

In order to achieve the stringent Discharge compliance and wisely utilize the waste water for process and recovering energy from them is really a worthwhile project for industries and it is deter ominous from levies. Today's technology developments allow realizing this vision.

**MAXIN™
REVITALIZATION**

BIOLOGICAL TREATMENT



An Advanced Biological Process that Provides Results While Also Reducing CAPEX and OPEX

Our Maxin Fluidized Bed Bioreactor technology utilizes a specially designed media, which due to its unique shape and extremely high active surface area, has been proven to achieve water quality compliance in challenging industrial wastewater applications. The process has significant cost benefits and can be easily used to retrofit existing non-compliant facilities.

- Reduces media volume by 40% 80%
- Reduces power consumption by up to 20%
- Reduces footprint by 25% 75%

Sewage Treatment Plants
at all across the country
for Industries and Communities



RECYCLE / REUSE





Extending Waters Life Cycle

TYPICAL TREATMENT SYSTEMS

- ULTRA FILTRATION WITH REVERSE OSMOSIS

- ENERGY EFFICIENT

REVERSE OSMOSIS

Maxin is a leader and pioneer in wastewater reuse, having completed some of the first large scale projects in both industrial and municipal reuse.

We possess this deep experience and expertise having tackled a variety of applications with an in-depth toolbox of technologies.

TYPICAL TREATMENT SYSTEMS

- Cooling tower blowdown
- Municipal sewage
- Microelectronics waste
- Frac flowback
- Produced water boiler blowdown
- SAGD and conventional produced water
- Refined and petrochemical effluent

High Efficiency Reverse Osmosis technology delivered all across INDIA for pharmaceutical industries

MAXIN™ REVITALIZATION

HIGH EFFICIENCY REVERSE OSMOSIS (HERO) TECHNOLOGY



HERO Effectively Handles Difficult-to-Treat Waters

Maxin has pioneered the application of HERO technology on wastewater. Our experience is unmatched with over 60 installations around the Nation on applications such as refinery waste, cooling tower blowdown, and treated sewage, to name a few.

- Eliminates biofouling
- Maximizes recovery to beyond 95%
- Makes zero discharge affordable

ZERO LIQUID DISCHARGE





Ensuring Compliance Protecting the Environment

TECHNOLOGIES

- Falling Film Brine Concentrators
- Forced Circulation Crystallizer
- Horizontal Spray Film Evaporator
- Hybrid System with membrane pre-concentrators
- High Efficiency Evaporation (HEVAP)
- Smart MOD modular evaporation

Our unparalleled depth of experience in ZLD encompasses more than 105 ZLD installations including stand-alone thermal / evaporative processes, or hybrid systems, which we pioneered. Hybrid ZLD systems result in greater value, ease of operation and reduced operating costs.

ZLD APPLICATIONS

- Cooling tower blowdown
- Flue Gas Desulphurization (FGD) wastewater treatment
- Enhanced oil recovery (EOR) produced water
- Coal to chemicals (CTX) waste
- Gas to liquids (GTL) waste
- Integrated Gasification Combined
- Cycle (IGCC) plants.

Zero liquid discharge plants at schaffler INDIA LTD and many more

**MAXIN™
REVITALIZATION**

**ZERO LIQUID DISCHARGE
PLANTS**



Agitated thin film dryer (ATFD) Pilot Plant

Maxin Experience Leads to Increasing Reliability in ZLD Systems

Reliability is key for ZLD operations. Maxin deep experience in designing ZLD plants has led to the development of our patented HEVAP technology, which allows evaporators to be more efficient, with less downtime and longer runs in between evaporator cleanings.

- No mechanical cleaning required
- Higher recoveries
- More availability than a conventional evaporator up to 100%

ZLD converts liquid waste into disposable dry solids to maximize water reuse and achieve environmental compliance.



OPERATION AND MAINTENANCE

A close-up photograph of a male worker in a red hard hat and orange safety vest, focused on a task. He is wearing a green jacket and is positioned next to a large, light-colored pipe. In the background, there are industrial structures, including a blue valve and other pipes, suggesting a water treatment or industrial facility. The scene is brightly lit, likely outdoors.



Services that Deliver Quantifiable Value

PRODUCTS & SERVICES

- Trouble shooting
- Remote monitoring
- Performance audits
- Upgrade and retrofits
- High performance specialty chemicals
- Water track pre-fabricated products
- Maxin industrial out sourcing
- Performance-based O&M

As a single source provider for our industrial clients, we offer integrated water solutions that focus on reducing cost through managing long-term reliability and consistency of operations.

ACCOUNTABILITY AND PREDICTABILITY

Our Maxin Outreach industrial outsourcing services have been designed to offer our clients complete security in plant operations through a performance-oriented approach. This methodology has been particularly successful for managing high tech processes like desalination, water reuse and Zero Liquid Discharge projects.

**MAXIN™
REVITALIZATION**

**UNCONVENTIONAL
GAS INDUSTRY**



Good for the Industry, Good for the Environment

The growth in shale oil and gas exploration has created a great opportunity for our economy. With it has come a serious but manageable environmental challenge to effectively handle fracking flowback and produced water.

Maxin has addressed this challenge with a complete solution. Our MoSuite lineup of mobile equipment allows for water treatment and reuse at the wellpad. Our investment in multiple central facilities where producers can send their wastewater for processing and Zero Liquid Discharge exhibits how Maxin has addressed this challenge with a complete, 360-degree solution.

Reliable, Sustainable, Adaptable

Our portfolio of “one-stop” products, services, and chemicals allows our clients to focus on their core business.



OUR CLIENTS



ADITYA BIRLA GROUP



HONDA



TITAN
COMPANY



TANISHQ



TVS
Supply Chain
Solutions



asianpaints



wakefit



THE ASHOK LEYLAND GROUP
नमो वा ज्योतिष्य



kauvery
hospital



SUGUNA
FOODS
STRENGTH TO YOUR FAMILY



KNTVEL NEEDLES PVT. LTD.
KNTVEL NEEDLES PVT. LTD. KNTVEL NEEDLES PVT. LTD.



Ansell



B



SKF



SIMPLE
energy



WEG



OVENUS
HOME APPLIANCES



BioPlus
LIFE SCIENCES



CLARESTA
HOTELS



Varam



Sri Chandra Sekara
Hospital



bioXgreen



CHLORIDE
METALS



DCW
LIMITED



Del Monte
Quality



ELKAYEM Auto Ancillaries (P) Ltd



Fiem
LIGHT UP THE WORLD



FIRST STEPS
FOODS PVT. LTD.



FLEX
FLEX FOODS LTD.
"Indian Produce, Global Delight"



GRB
Sign of purity



AA



INDUS
555 TMT



JAI
Jain Auto Industries Ltd.



neo
FOODS



WINPAK

SCHAEFFLER



SFL
Excellence in Production



VOLVO



ATE
ALLIANCE TIRE GROUP



thank you



maxinhydrodynamic@gmail.com
sales@maxinhydrodynamic.com



www.maxinhydrodynamic.com
www.maxinindia.co.in



5/645, Munishwar Nagar,
Hosur - 635 109. Krishnagiri (Dt).

04344- 292229 | 9840405346 | 7708805346 | 9790235346