



## Waste Water Treatment

### Headworks Screening



Vertical Shaftless Spiral Fine Screen  
 Mahr MS screens down to 2mm  
 Center Flow Perf Plate Screens

Perforated Plate Front Flow Screens  
 In-Channel Perf Plate Drum Screens  
 Multirake Automatic Bar Screens

### Fine Grit Removal



95% Fine Grit Removal  
 Pista Retrofits w/V Force Baffles

Guaranteed Through Flow Range  
 Grit Washers and Classifiers

### Odor Control



Electronic Media Bed Monitor  
 Liquid phase Oxygenation

Biological Multistage Scrubber  
 Vertical & Packed Bed Scrubbers



### Wastewater Pumping



Chopper Pumps  
 RAS/WAS Applications

Progressive cavity pumps  
 Horizontal Non-Clogs

### Mixing Solutions



Submersible Propeller Mixers

Jet Aerator Pumps/Mixers

### Biological Treatment



Mempulse MBR Process for Air Scour  
 MBBR/IFAS Systems  
 Compact Dissolved Air Flotation  
 Packaged Treatment Systems

Monolithic Hollow Fiber Membranes  
 Oxidation Ditch Retrofit  
 Anoxic MBBR  
 Centerfeed Clarifiers

### Ozone Disinfection



Compact modular Ozone generator  
 Sidestream Ozone Dissolution

50% reduction in Electrical & O&M costs  
 Highest concentration of ozone

### Aeration Systems



Dissolved Oxygen Aeration  
 Full System Design and Integration

H2S Reduction  
 Post Aeration Lagoon Treatment

### Nutrient Recovery



MagPrex Struvite P-recovery  
 50% Reduction in Digester Volume

Pondus Thermohydrolysis System  
 Reduce Dewatering costs by 20%

### UV Disinfection



Non-Contact In Channel UV Systems  
 Lowest O/M & Energy Consumption

In-Line Pipe Disinfection  
 Surface Discharge w/no chemicals

### Thickening/Dewatering



CS Series Dewatering Centrifuges  
 Repairs and Service on all brands  
 SP Series Screw Press

Hydraulic Backdrive, reduced O&M  
 THK thickener using zero polymer  
 Trailer Mounted Dewatering Rentals

### Solids Handling



Shaftless Screw Conveyors  
 S Tube Piston Sludge Cake Pumps

Automated loading conveyors  
 Grit Classifiers

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## Water Treatment

### Pumping Equipment



Vertical Turbines  
Horizontal Split Case  
Mixed Flows/Axial Flows

ANSI End Suctions  
Self Priming Pumps  
Double Suction Verticals

### Packaged Pump Stations



UL QZCJ Listed Pump Stations  
Wind Code Rated Building Enclosures

Integrated System Controls  
FM Listed Fire Pump Skids

### CO2 Systems - WTP Recarbonation



Precise PH Adjustment  
Consistent R-value reduces O&M  
80% Reduction In Carrier Water

30%+ reduction in CO2 onsumption  
Vacuum Jacketed tank insulation  
Cryogenic storage tanks and delivery

### RO Systems



98% High Recovery CCRO  
20-35% Reduced O&M costs

Naturally Disrupts Biogrowth/Scaling  
RO Retrofits Increase capacity

### Contaminant Removal



PFAS/PFOA removal  
Robust Stainless Steel Internals

Iron/Manganese Filtration  
Pilot systems readily available

### Disc Filters & Sand Filters



Effluent Cloth Disc Filters  
No Underdrain Failures Ever  
Retrofit Existing Filters w/Maximus

Monolithic Floor Deep Bed Sand Filter  
Denitrification Filters  
Biologically Active Filtration

### Control Valves



Pressure Relief/Sustaining Valves  
Cone Valves/Ball Valves  
Electronic Control Valves

Altitude Valves  
HDPE Flapper Valves  
Surge Anticipation Valves

## Wastewater Pretreatment & Industrial Treatment

### Industrial Waste Treatment



Industrial Pre-treatment BOD removal  
Self Contained MBR  
Full System Pilot Testing  
Primary clarifier Replacement  
DAF replacement/upgrades  
Controls Upgrades

Full Industrial Waste Treatment Design  
MBBR/IFAS systems  
Monolithic Hollow Fiber MBR  
Belt Filtration/Dewatering Screen  
Chemical metering systems  
CO2 recovery

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