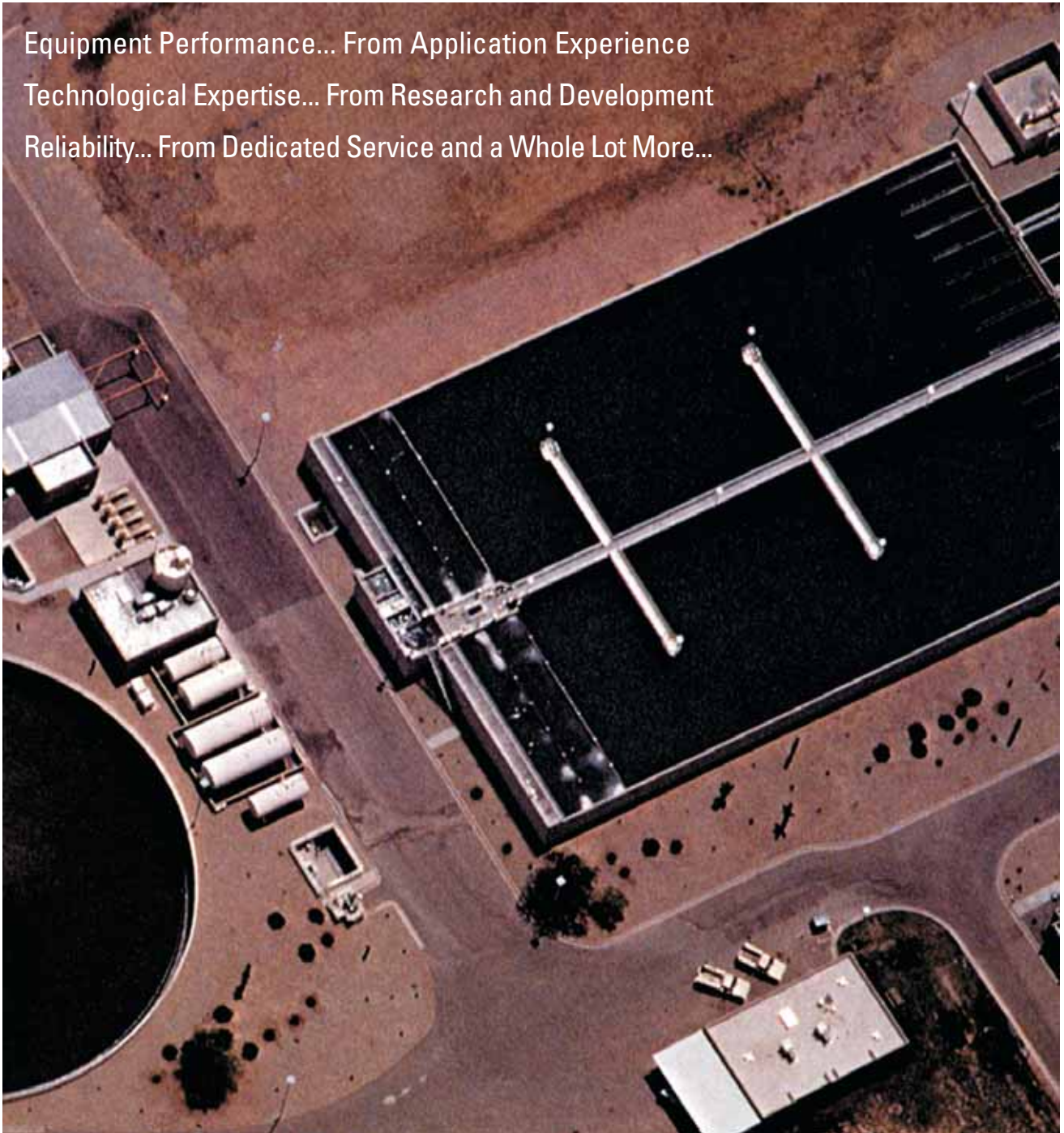


Water Treatment Equipment

Quality and Excellence...by Design

Equipment Performance... From Application Experience
Technological Expertise... From Research and Development
Reliability... From Dedicated Service and a Whole Lot More...



Cost Effective, Reliable, Dependable



1. Mixers and Flocculators



2. Delta-Stak Clarifiers



3. Reactor-Clarifier™ Solids Contact Units

1. Mixers and Flocculators

Our vertical turbine mixers blend chemicals with raw water prior to flocculation. Vertical and horizontal paddle flocculators are available on a variety of paddle assemblies to gently mix and agitate the conditioned water. The Flocsillator horizontal oscillating flocculator provides a highly efficient way to develop floc. All wearing components are above water, assuring long life.

2. Delta-Stak® Clarifiers

Our Delta Stak Clarifiers use state of the art technology to combine the simplicity of gravity settling with inclined plate sedimentation principles. Space requirements and costs are reduced while providing operational simplicity and high overflow rates. Due to the unique vertical stack arrangement of the separation elements, less floor space is required than with conventional inclined plate or tube settlers. The top feed design provides gravity settling and efficient stagewise clarification.

3. Reactor-Clarifier™ Solids Contact Units

The Reactor-Clarifier Units combine flocculation, coagulation, clarification, and positive sludge removal in a single tank. High-rate upflow solids-contact designs recirculate large quantities of previously formed precipitates with large diameter turbines. In softening applications, this recirculation can be up to 15 times the feed rate with slurry density up to 5% by weight. Conventional standard rate flocculating designs combine vertical paddle or turbine flocculation with clarification and are recommended for turbidity and color removal.

4. Granular Media Filters

We offer a complete line of gravity and pressure filters in either concrete or steel tank construction. The Type HCF filter is a 4-cell filter clustered around a center valve access and waste control column. This design eliminates pipe galleries and provides an economical means of treating large plant flows. Our traveling bridge filters provide continuous filtration while backwashing itself automatically. All our filters use the Flexkleen® Mark III Nozzle for filtrate collection and uniform distribution of air and water backwash. Gravel support layers are not required.

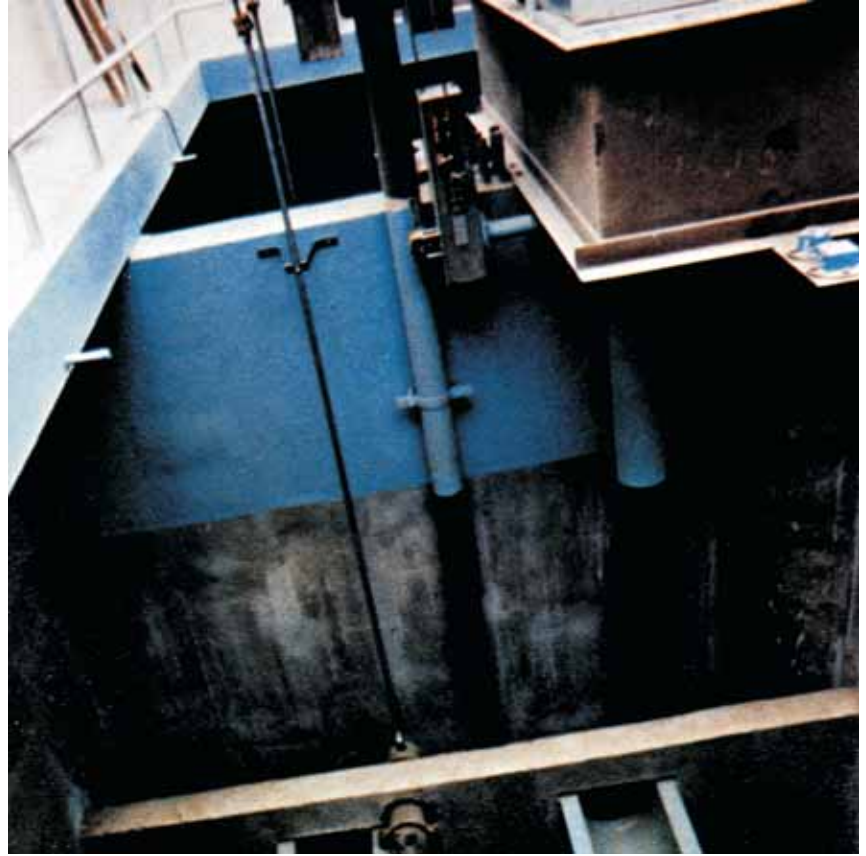
5. Sludge Thickeners and Clarifiers

Our component sludge thickeners and clarifiers are pre-engineered for cost-effectiveness while customized designs offer the most efficient separation and removal of solids for specialized requirements. Component designs utilize pre-engineered components to provide high quality at a competitive price. Diameter range from 8 to 100 feet, either center column or bridge supported. Minimal field installation is required. Our engineers can develop custom designs with new features to satisfy special application needs. This may result in concepts never before incorporated or combine existing designs in to new configurations.

6. Shriver® Filter Presses

Shriver Filter Presses obtain drier cakes at lower cost than are obtained by most other dewatering devices. For almost a century, Shriver has produced a large array of designs, features and styles. A large variety of plates, skeletons, opening mechanisms, shifters and special designs are available to suite the most demanding conditions. This experience enables us to offer cost-effective solutions for your dewatering requirements.

Water Treatment Equipment



Equipment for Water Treatment

- Mixers
- Flocculators
- Clarifiers
- Sludge Thickeners
- Solids-Contact Treatment Units
- Flocculating Clarifiers
- Inclined Plate Settlers/Clarifiers
- Granular Media Filters
- Aeration Equipment
- Screens (Rotary and Static)
- Beltpress Filters
- Filter Presses
- Vacuum Filters

4. Granular Media Filters



5. Sludge Thickeners and Clarifiers



6. Shriver Filter Presses

Effective Products Backed by Service

We offer a wide range of products proven during decades of dependable service for cost-effective treatment of water. Additions to our product line originate from both internal research and development and external licenses of major foreign designers.

Retrofit and Upgrade Services For Existing Facilities



- Engineered services
- Field evaluation and engineering design of individual mechanism and/or entire flowsheet
- Recommend design improvements
- Drive mechanism upgrade
- Plant upgrading to handle increased loading
- Plant upgrading to improve efficiency and performance of existing equipment
- Replace entire mechanisms
- Replace parts and components of mechanisms depending on current condition

Our field service engineers evaluate conditions at existing water treatment plants and provide recommendations, design, and other engineering services to upgrade and improve performance and efficiency of equipment and plant capacity. Mechanisms can be fitted into existing structures in many cases, or totally new designs can be developed.

Drive Mechanisms—can be upgraded for longer bearing and service life.

Mixers and Flocculators—can be added for process improvement or upgraded for longer service life.

Clarifiers and Thickeners—can be upgraded for process improvement and longer service life.

Granular Media Filters—can be added for process improvement or upgraded for longer service life.

Complete Plant Upgrades—can be provided by modifying existing equipment to increase capacity and increase service life. Our engineers can evaluate, recommend and install equipment to interface with existing machinery, or specify new concepts to increase capacity, efficiency, performance and service life of existing equipment.