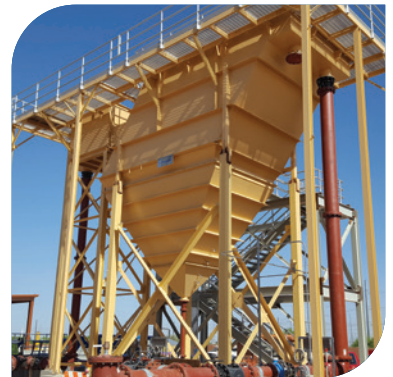




Municipal Water and Wastewater Treatment

- Screens & Headworks
- Aeration
- Biological
- Clarification
- Filtration
- Enhanced Nutrient Removal
- Biosolids





Aqua Guard® UltraClean™ In-Channel Self-Cleaning Moving Media Screen

The UltraClean is built off the original Aqua Guard® filter element screen introduced over 40 years ago. Designed to increase capture rates and reduce maintenance, it continues to be the proven design with 1,000s of installations.

- Standard model (AGMN) and heavy-duty model (AGS)
- 3-dimensional element screen
- Decreased maintenance
- Improved cleaning resulting in increased capture rates
- Improved machine access
- Combine with Parkson's conveyor and washer compactor for a complete system



Aqua Guard® PF Perforated Plate In-Channel Screen

The Aqua Guard® PF screen, built with the same proven quality as the Aqua Guard screen, uses perforated plate media to achieve efficient solids capture.

- Stainless steel perforated screen
- Available with 3mm and 6mm openings
- Spray and independent drive brush cleaning system
- Convex or optional step-shape perforated panels
- Treats flows up to 100 MGD
- Combine with Parkson's conveyor and washer compactor for a complete system



Aqua Caiman® In-Channel Articulating Rake Screen

Parkson offers an array of in-channel screens to suit any need - high capture rates, low maintenance, economical, and manufactured in the USA. The Aqua Caiman® represents the next generation of articulating rake screens. This low maintenance screen provides unmatched durability and ease of operation.

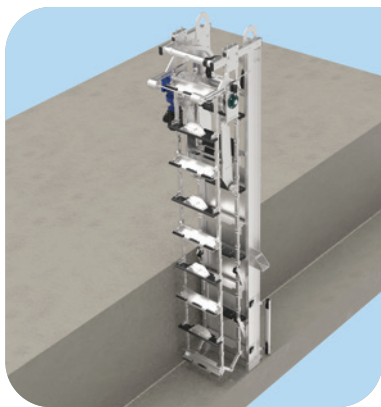
- Capable of handling large solids
- No bottom bearings, no moving parts below water surface
- *True-Track™* chain positioner allows for adjustment without a hoist
- *True-Engage™* design allows for 100% rake engagement
- Combine with Parkson's conveyor and washer compactor for a complete system



Aqua Caiman® HD Heavy-Duty In-Channel Articulating Rake Screen

The Aqua Caiman® HD incorporates the proven features and benefits of the original Aqua Caiman®, but is even more robust, designed to handle high flows and heavy solids with ease. A series of rakes coupled to heavy traveling chains form a flexible belt assembly to remove solids without the need for bottom bearings.

- Ideal for combined storm flow, trash rake, other high flow applications
- 1" - 4" bar openings to accommodate removal of large objects
- Heaviest chain link design in the industry
- Up to 1,000 lbs lifting capability and 50 ft. depth capability
- Combine with Parkson's conveyor and washer compactor for a complete system



Aqua Caiman® Vertical In-Channel Articulating Rake Screen

Building off the proven Aqua Caiman® design, the Aqua Caiman® Vertical mounts vertically at 85 or 90 degrees and can be used in new or existing deep channels.

- Ideal for deep, tight installations or where additional rake engagement force is needed
- *True-Grip™* chain retention system provides additional rake engagement
- *Expulsionator™* deflector system aids in solids removal from rakes
- Bar openings from 1/4" up to 4"
- Combine with Parkson's conveyor and washer compactor for a complete system



Aqua Rhino™ In-Channel Escalating Screen

The Aqua Rhino™ represents the next generation of escalating screens. It is the most durable step screen on the market with a robust design and advanced drive systems.

- Economical – high performance in a cost-efficient package
- Direct drive linkage system, no chain drive
- Reduced grit buildup with minimal toe space and optional wash bar
- Designed to be easily maintained
- Optional lifting bar to pivot the screen out of channel for routine maintenance
- Combine with Parkson's conveyor and washer compactor for a complete system



Hycor® Rotoshear® Internally-Fed Rotating Wedgewire Drum Screen

The Rotoshear® is often utilized as a headworks screen and is a proven, high-capacity fine screening technology. It is frequently used for pretreatment and primary treatment to replace primary clarifiers, as well as sludge screening. EZ-Care™ features include quick disconnect nozzles for spray wash and entirely lube-free drive system and trunnion wheels.

- Available in 12 models with custom features
- Made entirely of 304 and 316 stainless steel
- Can be equipped for automatic on and off operation
- Openings range in size from 0.01" to 0.10"
- Hydraulic capacities from 450 GPM to 13,000+ GPM
- Combine with Parkson's conveyor and washer compactor for a complete system



Hycor® Rotoshear® PF Pre-Membrane Screen

The Rotoshear® Perforated Plate Drum Screen offers diverse media options to meet various screening needs. Its superior capture efficiency makes it the ideal choice for pre-membrane screening. The screens are outfitted with EZ-Care™ features, which reduce operator maintenance and affiliated costs.

- 1mm - 3mm screen openings with perforated plate
- Headbox design easily handles flow variations and surges
- Drive chain requires no additional lubrication
- Combine with Parkson's conveyor and washer compactor for a complete system



Hycor® Rotostrainer®

Externally-Fed Rotary Wedgewire Screen

Introduced 30+ years ago, the Rotostrainer® is the original self-cleaning and externally-fed wedgewire screen. An oversized headbox with sufficient weir length allow for 100% bypass in overflow situations. The screen features a heavy-duty, corrosion resistant stainless steel chassis and wedgewire screening cylinder. The unit handles difficult solids very well, such as scum and oily and greasy materials.

- Opening sizes from 0.01" to 0.10"
- Single unit capacity up to 7,800 GPM
- Automatic doctor blade cleaner to facilitate solids removal
- External bearing and removable headbox simplify maintenance
- Combine with Parkson's conveyor and washer compactor for a complete system



Hycor® Helisieve® M

In-Channel Fine Screen

The Helisieve® M combines fine screening, conveying and dewatering in one. The heart of the system consists of a shaftless spiral with brush that conveys screenings to a dewatering zone for discharge. A patent pending adjustable press zone helps discharge problematic wipes when in EZ-Wipe™ Mode. Screened solids are dewatered and discharged into a dumpster/conveyor.

- Capacities up to 8 MGD with screen openings available in 1/8" or 1/4" diameter
- In-tank septage pre-treatment
- Full and easy access to compaction zone
- Available in 35 and 45 degree installation angles



Hycor® Hydroscreen™

Bi-Wave Static Screen

The Hydroscreen offers proven and reliable performance in liquid/solid separation. It is used as both a fine screen for pretreatment and grit dewatering equipment in wastewater treatment plants.

- Bi-wave panel design provides highest available capacity
- Opening sizes from 0.01" to 0.10"
- Hydraulic capacities from 70 GPM to 2,700+ GPM
- Reduces downtime and maintenance costs
- Combine with Parkson's conveyor and washer compactor for a complete system



Aqua WashPress®

Dewatering Screw Press

The Aqua WashPress® economically and effectively washes and dewateres screenings from in-channel and rotating screens in a variety of applications. A stainless steel housing encompasses an inner cylinder where washing, compacting and dewatering occur. Volume and weight are reduced prior to disposal.

- Available in 8", 10", 12" and 17" spiral diameters
- Reduces odors caused by entrained organics
- Custom length/height of discharge piping
- Combine with a Parkson screen for a complete screening solution



Hycor® Helixpress® Shaftless Spiral Dewatering Press

The Helixpress® is the cost-effective solution for dewatering screenings collected by any type of screen. It's an all-in-one conveyor, compactor and dewaterer that reduces weight and volume, ultimately decreasing hauling and disposal costs.

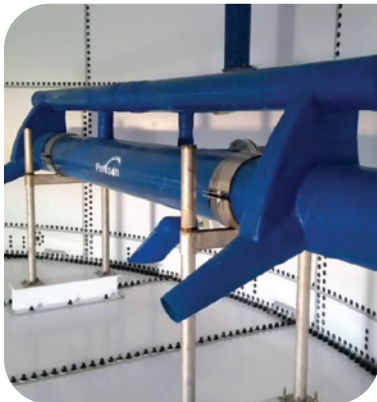
- Designed to handle over 150 cu. ft./hr.
- Multiple screens can discharge into a single Helixpress unit
- Conveys solids up to 30 ft. and up to 20 degree angle
- Combine with a Parkson screen for a complete screening solution



Hycor® Helicon® Shaftless Spiral Conveyor

Used in conjunction with other Parkson equipment, Helicon® provides a solids management system that conveys screened solids to washing or dewatering and ultimately, to disposal.

- Fully enclosed to contain odors and eliminate spills
- Complete stainless steel system
- Shaftless spiral provides clear, unrestricted throughput
- Combine with a Parkson screen for a complete screening solution



VariOx™ Jet Aerator

The VariOx™ Jet Aerator utilizes a combination of motive liquid and blower air to create a high-energy jet plume for mixing and oxygen transfer. The jets can be operated without the blowers or with variable blower input while still maintaining a complete mix condition within the tank. This feature enhances process control and energy optimization.

- Ideal for biological nutrient removal applications where anoxic mix is required
- Fabricated from FRP with stainless steel supports
- Highly robust, operating life of > 25 years



TumbleOX™ Bioreactor

The TumbleOx™ Bioreactor utilizes an attached growth, non-activated sludge process to provide biological treatment of BOD and ammonia. Media housed in a partially submerged, rotating drum provides a large surface area for biofilm to grow. The unique media design provides aeration as the drum rotates and the media moves in and out of submergence.

- Ideal for lagoon effluent ammonia removal, industrial pre-treatment, small municipal and industrial biological treatment, and more
- Unique media design mixes and aerates without use of blowers
- D.O. levels achieved typically > 3.0 mg/L



IGNITE™ Integrated Nitrification Process

IGNITE™ is a non-activated sludge solution for upgrading lagoon based treatment plants to achieve improved BOD and ammonia removal. The process utilizes a combination of Parkson's Biofuse® lagoon aeration system and TumbleOx™ Nitrification Reactor.

- Ability to achieve tighter BOD, TSS and ammonia permit levels with minimal upgrades
- Simple operation by treating with a non-activated sludge process
- Coordinated process design and guarantee- all equipment provided by Parkson



EcoCycle SBR™ Sequencing Batch Reactor

The EcoCycle SBR™ is a batch treatment process where all treatment steps occur within the same reactor. A typical system includes two or more treatment tanks so as one tank is filling, the other tank(s) are processing and clarifying. A normal treatment cycle will include fill, react, settle, decant, and idle steps.

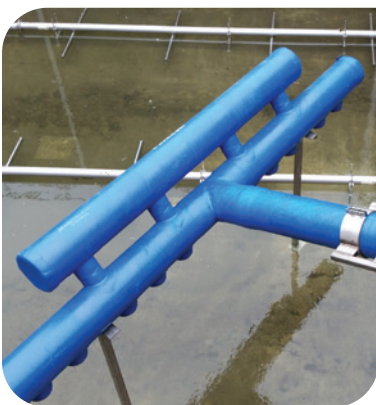
- Ideal for biological nitrogen and phosphorus removal
- PLC control system continuously monitors oxygen levels to optimize energy efficiency
- Small footprint with no separate clarifiers or return sludge piping
- Available in batch feed or continuous fill designs (PISCES™ CFSBR)



Biolac® Long Sludge Age Process

The Biolac® System is a proven, long sludge age, activated sludge process that reliably provides complete nitrification in a very simple-to-build plant.

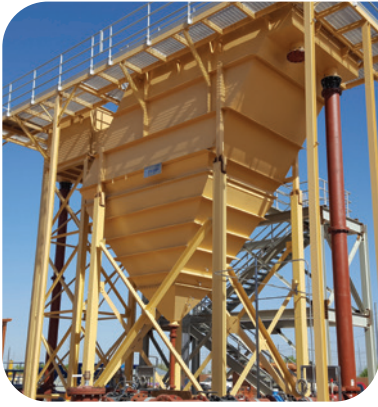
- Cost-effectively upgrade existing lagoons to nitrification
- Simple total N removal with cyclic aeration using Wave-Ox™ Plus ammonia based control, eliminating MLSS recycle and separate stages
- Biological P removal with Bio-P zone
- Extremely stable and simple to operate
- 40+ day solids retention time (SRT) ensures maximum stability and minimal production of biosolids



DynaCanter™ Decanter

The DynaCanter™ is a floating style decanter that is used to remove treated effluent (Model ED) or supernatant (Model SD) from the upper portion of the treatment tank. The decanter utilizes a flex joint to allow vertical articulation as water levels change. Water is collected from below the surface to preclude floating material.

- Ideal for sequencing batch reactors, aerobic digester thickening
- No electro-mechanical components located inside the tank
- FRP and stainless steel construction provide years of maintenance-free operation



Lamella® LGS and LGS(T)

Parkson's legacy Lamella® Gravity Settler (LGS), Lamella Gravity Settler Thickener (LGST) and Lamella Plate Pack designs are the most economical sedimentation options preferred by engineers and designers for the superior, high-capacity patented EcoFlow® design. Lamella enables municipalities to process 25% more throughput for the same footprint of traditional units.

- Filter backwash water
- Membrane backwash water
- Enhanced nutrient removal (ENR); P-removal
- Primary clarification
- Customized flocculation tanks
- Compact designs; 90% smaller footprint than sedimentation basins



Plate Pack Clarification Technology with EcoFlow®

Parkson's efficient and proprietary flow distribution design guarantees our plate pack clarifiers operate with the lowest hydraulic mal-distribution in the industry. All plate pack units are sold with the patented Lamella EcoFlow® technology, allowing engineers to design at 100% of plate utilization.

- Compact designs; require up to 1/10th lower sedimentation basin footprint
- Ideal for new municipal installations or expansions
- Variety of plate pack MOC, providing unmatched operating and cost flexibility
- High-capacity plate settlers ranging from 5 MGD to 150 MGD



DynaSand® Continuous or Intermittent Backwash Filter

The DynaSand® filter delivers improved effluent quality over conventional filter systems while simultaneously lowering treatment chemical consumption, increasing net water production and saving energy. The DynaSand is available with the EcoWash® upgrade for continuous filtering with intermittent sand washing.

Proven performance and reliability for:

- Water reuse, Title 22
- Ultra-low phosphorus removal
- Denitrification
- Suspended solids reduction



DynaSand D2® Advanced Filtration System

The DynaSand D2® filter achieves enhanced effluent quality by providing a two-stage filtration system when targeting water quality, originally thought only possible via membrane filtration.

Proven performance and reliability for:

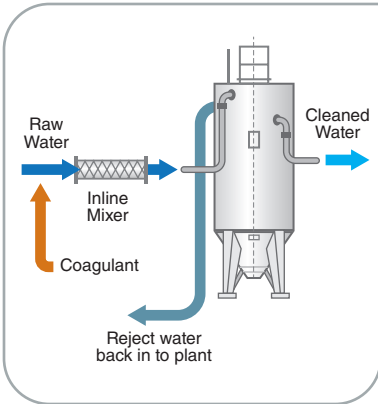
- Desalination
- RO pretreatment (SDI < 3)
- Ultra-low phosphorus
- Ultra-low nitrogen



DynaSand® Denite Filter Enhanced Nutrient Removal Filtration System

DynaSand® Denite provides a single-step solution to remove nitrates (NO₃) and nitrites (NO₂) in order to meet low effluent nutrient limits. The DynaSand filter achieves denitrification performance with less energy and in a smaller footprint than alternative conventional technologies. When combined with EcoWash®, significant operational cost savings associated with supplemental carbon are also realized.

- Effluent TN limits < 3 mg/L
- Simultaneous total N and P removal
- Low operating costs
- Small footprint



DynaSand® CCF Continuous Contact Filtration

The DynaSand® Continuous Contact Filtration (CCF) process makes it possible to carry out coagulation and separation directly in the filter bed to produce very high-quality filtrate. Chemical dosing equipment introduces coagulation chemicals into the feed line of the filter. A static mixer ensures proper mixing of chemicals and raw water. Coagulation, flocculation and separation then take place within the filter bed.

- Eliminates flocculation tanks
- Eliminates settling and backwash tanks
- 85% less equipment volume with these eliminations
- No 'special' media required



Hycor® ThickTech™ Rotary Drum Thickener

The ThickTech™ Rotary Drum Thickener (RDT) is the industry leading sludge thickener. Its performance is unmatched, with sludge volume reduction of 90% and up to a 98% capture rate – all achieved with very low polymer use. Fabricated of stainless steel and utilizing a woven wire mesh screen, it is engineered to provide years of reliable service.

- Low requirements for horsepower, water consumption and polymer usage
- Compact footprint
- 20+ years of operation and hundreds of installations
- Used as a pre-thickener to increase capacity of other dewatering equipment



Fort Lauderdale
Chicago
Kansas City
Denver
Birmingham

1.888.PARKSON
technology@parkson.com
www.parkson.com

