



Water Debris Capture Solutions



HYDRO Component
SYSTEMS, LLC
We use what we sell, every day.

Capture debris and a competitive edge.

For over 35 years, companies around the world have relied on Hydro Component Systems (HCS) to keep their water intake environments free from debris – and the costly problems debris can cause.

Our innovative debris capture and removal solutions, including trash racks and trash rakers, give companies a competitive advantage by helping them to protect expensive equipment, increase efficiency and reduce downtime.

Easy to install, use and maintain, our durable products have been successfully utilized in a wide range of water environments and industries:

- Power generation
- Wastewater treatment plants
- Pulp, paper & steel mills
- Municipal water intakes
- Storm water pumping stations
- Water parks
- Petro chemical plants
- Custom applications

We use what we sell, every day.

At HCS, we not only manufacture and sell our American-made products – we also use them every day at our own hydroelectric plants. So, our customers benefit from our daily in-field research, hands-on experience and quality control.

Ideal for a variety of applications:

- Intake screens
- Storm water overflows
- Culvert and drainage underflows
- Cooling water screens
- Headworks
- Flow straighteners



Mike Pedersen, Kaukauna Utilities Customer (Kaukauna, Wisconsin)

“HCS worked hand-in-hand with us to customize the trash rack and raker systems we purchased from them to fit our specific needs. With the great success of our plastic HCS trash rack test and HCS’s outstanding customer service, support and responsiveness, Kaukauna Utilities is now buying two more plastic HCS trash racks for the Kaukauna City Plant. We know HCS will always be there to adapt to our needs.”





Trash Racks

Designed to be rust-free and corrosion-free. FOREVER.

As a vital part of your water intake system, HCS trash racks capture harmful water debris and prevent it from reaching – and damaging – your equipment.

Made from high-density polyethylene (HDPE) that will never rust or corrode, our rugged trash racks have been engineered to provide years of service – and an excellent ROI.

Lightweight design, heavy-duty performance.

Unlike typical metal trash racks, the blades and spacers on our HDPE trash racks will never need recoating, making them practically maintenance-free. This unique material also resists marine growth, such as zebra mussel fouling, and prevents frazil ice and anchor ice from forming in cold climates.

The rack blades feature radius leading and trailing edges to reduce flow resistance, increasing efficiency by improving water passage to turbine units and pumps. Horizontal rods, made of solid pultruded FPR, provide high-impact strength against heavy debris.

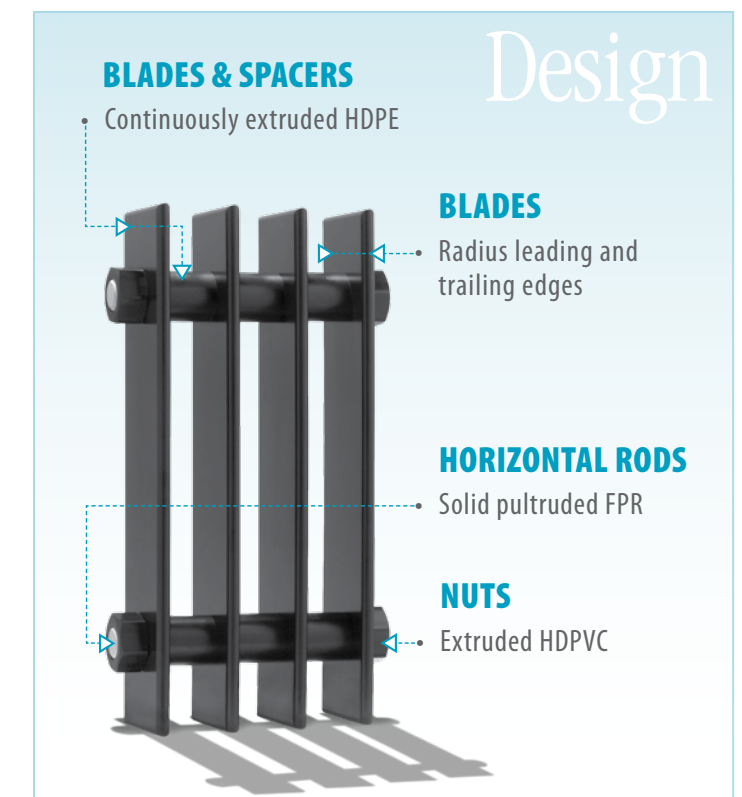
Because our HDPE trash racks weigh much less than metal racks, they are remarkably easy to install, arriving fully assembled and ready for installation.

Count on performance:

- High-impact strength
- Corrosion- and vibration-free
- Resists marine growth and zebra mussels
- Prevents frazil ice adhesion and the formation of anchor ice
- Fully assembled and ready for installation
- Lightweight and easy to maintain
- Improves water passage to turbine units and pumps

Ron Kolb, DIVCON, LLC
Contractor (Owensboro, Kentucky)

“We needed to find a more dependable and long-lasting trash rack because the existing steel trash racks at the Alcoa power plant were deteriorating. The HCS trash racks will never rust or corrode or fall prey to marine growth fouling so we don’t have to worry about costly plant shutdowns. We purchased our first HCS trash rack last year and because of its flawless performance, we bought two more.”





Trash Rakers

Making cleanup fast and easy.

Hydro Component Systems' patented* electro-mechanical (no hydraulics) trash rakers finish the job by efficiently removing captured debris from a wide variety of new or existing water intakes.

Tested under full-rated load conditions prior to shipment, HCS trash rakers provide years of flawless performance even under extreme weather conditions.

In fact, HCS trash rakers are the only rakers able to operate in hurricane winds of up to 150 mph.

Rake in the advantages:

- Quick cycle time
- Positive trash raker engagement
- No hydraulics, therefore no hoses, reservoirs or exposed cables
- Simple operation
- High-load capacity
- Easy to maintain
- Operates in winds up to 150 mph

Different rakers for unique needs.

HCS offers a range of manual or fully-automatic trash rakers that can be customized to meet the specific needs of your facility. All trash rakers offer two control options: handheld radio-controlled pendant at water intake, or fully-automated system that can be activated locally at the intake or from a remote location.

Standard Manual Trash Raker – Travels in a straight line, offering simple operation with high-load capacity.

Dual Rakers – Collect twice as much debris in half the time at large intakes (over 100-feet wide). If one raker is disabled, the second raker will automatically take over the cleaning of the entire rack.

Articulating Raker – Navigates on a track to handle curves, allowing for job site customization.

Pivot Raker – Turns 360 degrees on a turntable bearing and features a cam-actuated boom, making it ideal for tight-space applications.

* U.S. Patent No. 7,815,811



Dave Boyter, Symbiotics
Customer (Rigby, Idaho)

“With the many hydro power plants we manage across the United States, it’s comforting to know that the same trash raker we’re relying on in our hydro power plants, HCS is using as well. If that’s not a guarantee, I don’t know what is. We’re currently talking with HCS about how their trash racks and rakers can help at our other hydro power plants across the country.”



We Use What We Sell, Every Day.

For the past 35 years, Hydro Component Systems has been a pioneer in debris capture solutions for water intake environments.

As the manufacturer of the products we sell, HCS has complete control of every aspect of them, from molding and extruding, metal fabrication and specialty machine engineering, to assembly operations, quality assurance and product delivery.

We understand our customers' needs because we use our patented trash rakers and trash racks every day at our own hydroelectric plants. We expect the same dependable, high performance as you do.



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