

Atlas Polar **KEEP THE WATER FLOWING**

**HYDRO
RAKE**

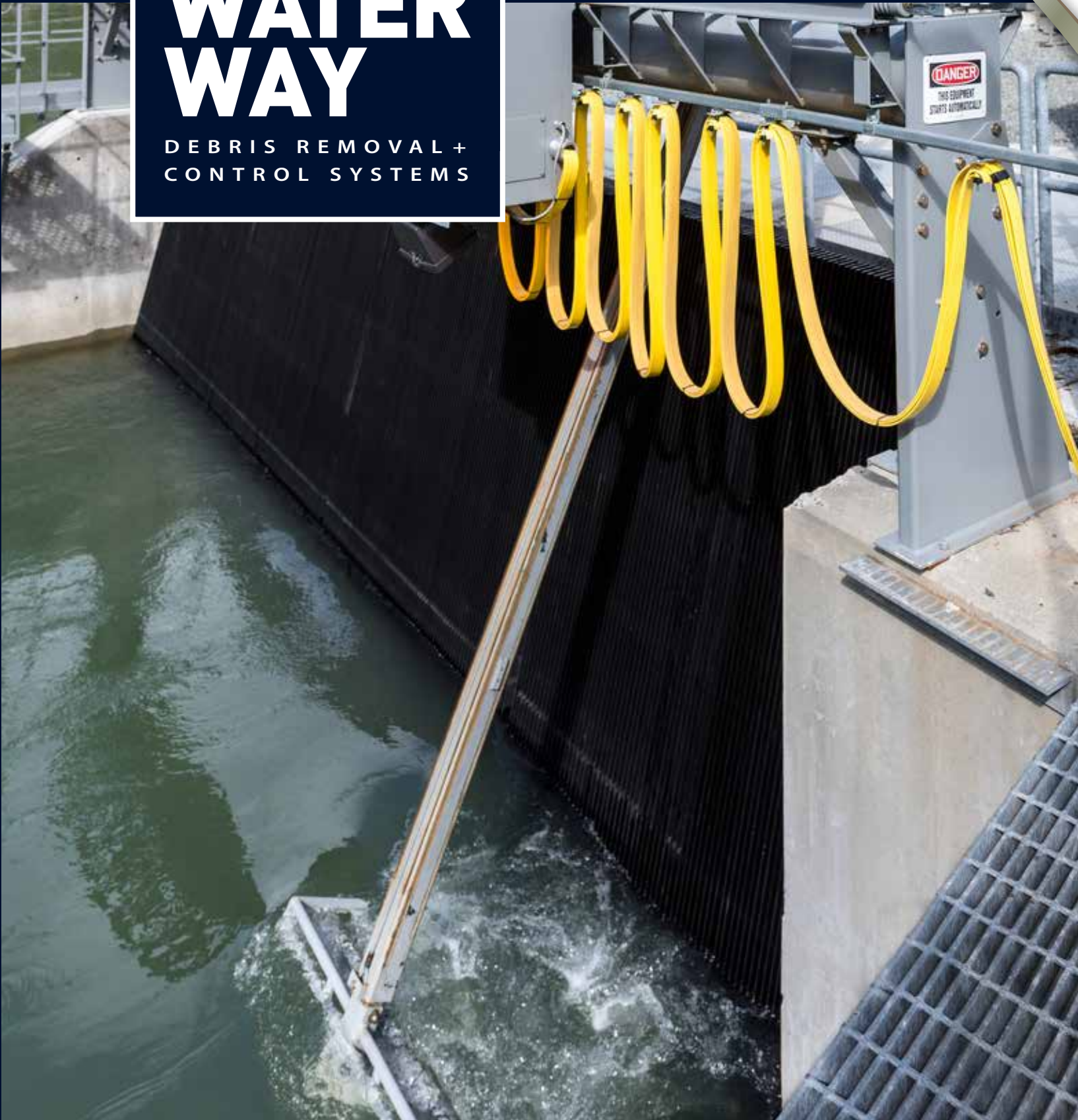
HYDROBRUSH

STOPLOGLIFTER



WATER WAY

DEBRIS REMOVAL +
CONTROL SYSTEMS



WATER WAY

DEBRIS REMOVAL
SYSTEMS

POLARRACKS

IN THE MORE THAN 40 YEARS THAT WE'VE MANUFACTURED HYDRORAKES, HYDROBRUSHES, STOPLOG LIFTERS AND OTHER WATERWAY EQUIPMENT, WE'VE LEARNED A THING OR TWO ABOUT PERFORMANCE.

Atlas Polar introduced the first automated waterway debris removal and cleaning system to North America in 1976. More than 400 installations later, we haven't looked back.

Atlas Polar state-of-the-art waterway systems – HydroRake, HydroBrush, StopLog Lifter and new HPOE Polar Trash Racks – have been proven at some of the largest hydroelectric dams, municipal waste facilities, water intake facilities and fish processing plants on the continent. And they keep on working – 24/7 – under the most extreme weather conditions to be found anywhere.

Our innovative systems are flexible, reliable and cost efficient, and they're proven to increase flow efficiency, reduce operations and maintenance costs, and improve safety and morale.

We build them. We test them. And we stand behind them. No wonder HydroRake is the #1 trash cleaning system for intake screens in North America.

**TOUGH EQUIPMENT FOR
THE TOUGHEST CONDITIONS.**

**ENGINEERED
TO SAVE
TIME, LABOUR
+ INCREASE
FLOW**

- SUPERIOR STRESS RESISTANCE + MAXIMUM PERFORMANCE
- VIRTUALLY MAINTENANCE-FREE
- EASY TO INSTALL
- EASY TO CUSTOMIZE
- LIGHTWEIGHT + BUILT TO LAST



MEET THE ATLAS POLAR HDPE RACKS

– Another industry standard

Our polyethylene (HDPE) Polar Racks are high strength, high density, high impact and corrosion-free. Smooth, hard + non-porous, they resist UV damage, and prevent frazil ice, anchor ice and destructive marine growth from forming so they last longer, are low maintenance, easy to clean and let water move freely.

Polar Trash Racks are continually extruded per section with reinforced fiberglass rods + end nuts, that withstand the toughest conditions, handling, impact and weather. Plus they're easy to clean and never need re-coating, and are flexible to fit just about any installation.



ST9000
DT9300

KEEP THE WATER FLOWING – AUTOMATICALLY

The Atlas Polar Hydrorake is a fully automatic trash raking system that cleans any gauge screen or barrack – 24 hours a day – even in the coldest weather. The system is fully scalable, so multiple units can be used on the same rail system for intakes with large masses of debris. And installation upstream provides space for trash removal and deck access for personnel.

Hydrorake systems ensure a fast payback on your investment. Facilities protected by the Hydrorake show dramatically increased flow efficiency, reduced operation and maintenance costs, and a marked increase in safety and crew morale.



ALL HYDRORAKE SYSTEMS COME STANDARD WITH A HAND-HELD PENDANT STATION FOR MANUAL OPERATION. AN OPTIONAL WIRELESS REMOTE IS ALSO AVAILABLE.

**ST9000 SAVE
TIME, LABOUR
+ INCREASE
FLOW**

SCALABLE, SO MULTIPLE
UNITS CAN BE USED ON
THE SAME RAIL SYSTEM
FOR INTAKES WITH LARGE
MASSES OF DEBRIS

NEED
NEW
IMAGE

THE DT9300 CAN LIFT 4000
LBS OF DEBRIS AND REACH
A DEPTH OF OVER 70 FEET.
PLC CONTROL SYSTEM

**DT9300
TWIN BOOM
FOR TWICE THE
WORKLOAD**



HB9100

Canada is famous for its pristine waterways. HERE'S ONE GOOD REASON WHY

The Atlas Polar Hydrobrush is an innovative example of our commitment to responding to our customers' needs. Originally designed for fish monitoring and transfer facilities where keeping a constant flow through the screen is essential, it's also ideal in various types of water pump stations.



NEED
NEW
IMAGE



SPECIALLY DESIGNED BRUSH
TRAVELS HORIZONTALLY TO
AUTOMATICALLY CLEAN
STAINLESS STEEL SCREENS –
FROM VERTICAL TO 30° – TO
MAINTAIN CONSTANT FLOW



NEED
NEW
IMAGE



LP2040

REMOVE LOGS FROM SLUCEWAYS – 24/7

The Atlas Polar StopLog Lifter system takes the risk and downtime out of the hazardous job of securing, removing, stacking, retrieving and replacing logs in the sluiceway. The hydraulic system requires only a single operator, and is effective in even the most adverse weather conditions. It keeps on going 24/7, so your operations can too. It's fast, highly efficient, and contributes to high staff morale and wellbeing.

The Atlas Polar StopLog Lifter can engage a log with a full head of water passing over it. With a lifting force of 20,000 lbs and a damage-free jacking down force of 40,000 lbs, it's a match for any log in any circumstance. And the StopLog Lifter is fully adaptable to your site. It can be made to accommodate any rail centre, log size, log length, multiple logs, hold-down provisions and more.



**BETTER WATER CONTROL.
1-PERSON OPERATION
WITH LESS RISK –
IN ANY CONDITIONS**

HOW IT WORKS

1. A telescopic boom with a rake head extends into the water by means of a hydraulic/mechanical boom system.
2. A hydraulic cylinder tilts the boom to hold the rake against the racks at a constant pressure, while a second cylinder lifts the boom.
3. When the rake reaches the top of the racks, it automatically dumps the debris.
4. The optional heavy-duty conveyor system then moves the debris to a collection area on either side of the intake. Or this can be done manually.

- Complies with stringent fish and wildlife protection regulations
- Improves cleaning by maintaining constant screen pressure and adapting to varying depths and rising floor
- Reduces site operation + maintenance costs
- Faster, more efficient cleaning cycles with precisely controlled variable speed brushing



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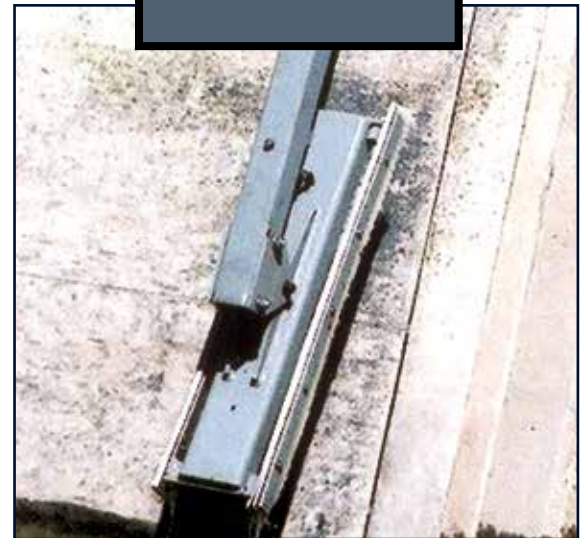
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WATER WAY

DEBRIS REMOVAL +
CONTROL SYSTEMS

HYDRORAKE

Debris Lifting Capacity
Raking Depth (below deck elevation)
Hydraulic System
Inward Rake Pressure (adjustable)
Rackhead Width
Rake Boom Design
Power Supply
Parts

ST9000

1500 lb
4 ft
2250 PSI
200-300 lbs
4 ft/custom
Single or telescopic
240/480/575V/3 Phase or 60HZ
Standard protection items/
high interchangeability

DT9300

4000 lb
70 ft
2500 PSI
300-500 lbs
6 ft

HYDROBRUSH

Stainless steel wire orientation
Brush Length
Brush Depth
Screen Angle
Boom Design
Power Supply
Side-travel speed
Parts

HB9100

Vertical
Double bristle/5 feet/custom
40 feet
0° - 30° from vertical
Single/double
240/480/575V/3 Phase or 60HZ
0-1.25 ft/sec
Standard protection items/
high interchangeability
Maximum 2500 PSI
Variable

Hydraulic System

Inward Brush Pressure

STOPLOG LIFTER

Log Size + Rail Centres
Sluice Depth
Boom System
Control Station
Power Supply

LP2040

To suit
30 feet
Double telescopic
Centre console
240/480/575V / 3 Phase / 60HZ
gas, propane or diesel engines
Variable to 50 ft./minute
10,000 lbs/boom min. or to suit
20,000 lbs/boom min. or to suit
Hook or spud
Compactor plate-mounted
Maximum 2500 PSI

Side-travel speed

Breakaway Force

Compaction Force

Iron Style

Log Contact Indication

Hydraulic System

All Atlas Polar Waterway systems feature automatic PLC Control Panels with hand-held remote control. Optional remote controller. Installation is available in a motor control centre or weatherproof outdoor enclosure.



Atlas Polar
IT'S ALL ABOUT QUALITY™



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