

Atlas Polar **KEEP THE WATER FLOWING**

**HYDRO
RAKE**

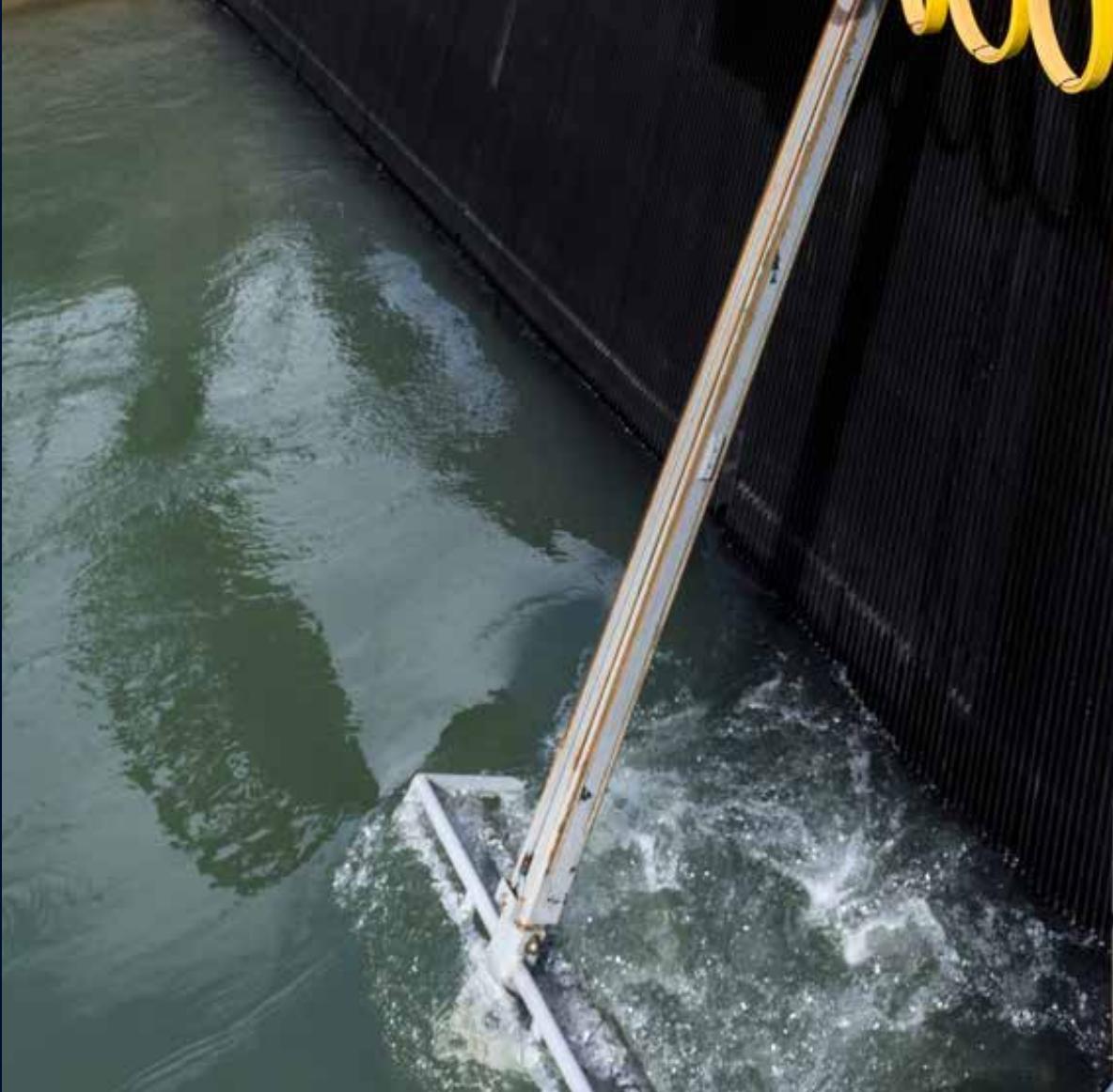
HYDROBRUSH

STOPLOGLIFTER



WATER WAY

DEBRIS REMOVAL +
CONTROL SYSTEMS



WATER WAY

DEBRIS REMOVAL
SYSTEMS

**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 HDPE 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.**

POLARRACKS

**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



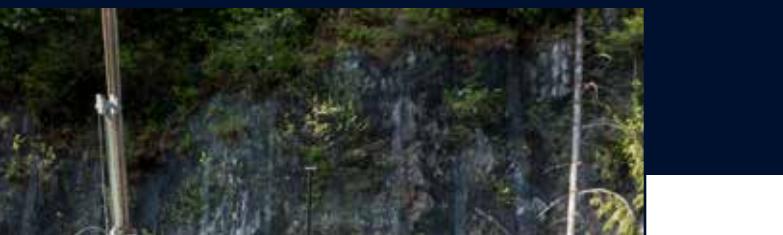
MEET THE ATLAS POLAR HDPE RACKS – Another industry standard

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.

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.

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

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

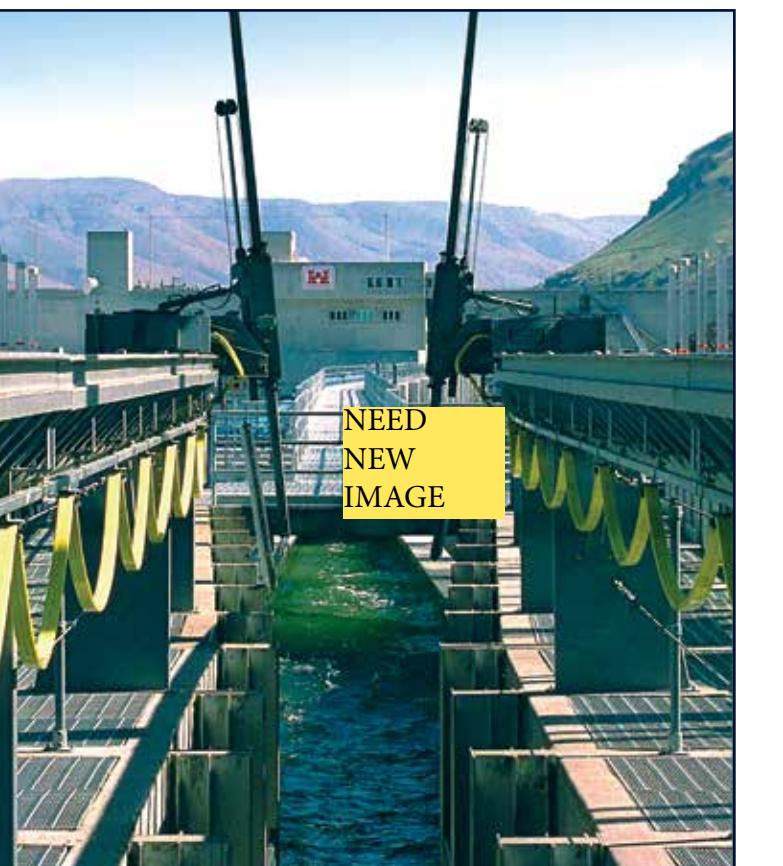
DT9300 TWIN BOOM FOR TWICE THE WORKLOAD



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.



- 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



LP2040

REMOVE LOGS FROM SLUICEWAYS – 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.

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



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



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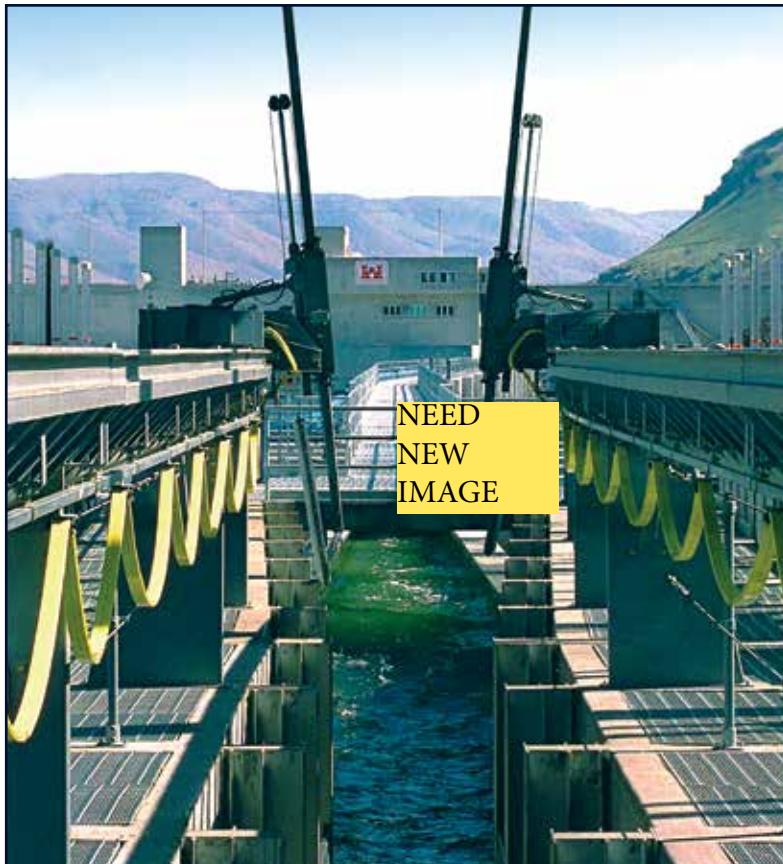


HB9100

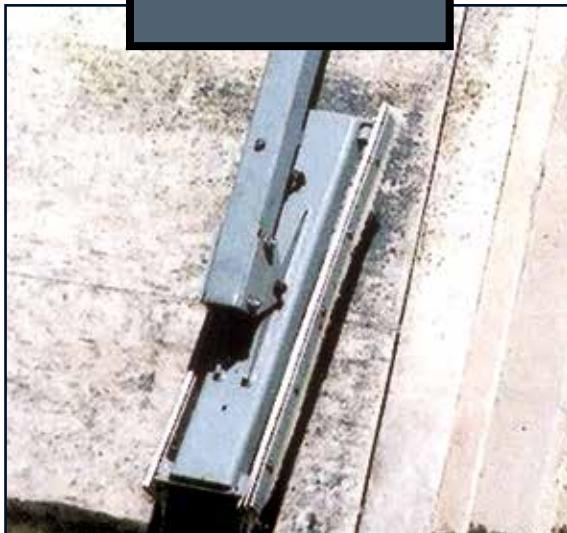


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HYDRORAKE

	ST9000	DT9300
Debris Lifting Capacity	1500 lb	4000 lb
Raking Depth (below deck elevation)	4 ft	70 ft
Hydraulic System	2250 PSI	2500 PSI
Inward Rake Pressure (adjustable)	200-300 lbs	300-500 lbs
Rackhead Width	4 ft/custom	6 ft
Rake Boom Design	Single or telescopic	
Power Supply	240/480/575V/3 Phase or 60HZ	
Parts	Standard protection items/ high interchangeability	

HYDROBRUSH

	HB9100
Stainless steel wire orientation	Vertical
Brush Length	Double bristle/5 feet/custom
Brush Depth	40 feet
Screen Angle	0° - 30° from vertical
Boom Design	Single/double
Power Supply	240/480/575V/3 Phase or 60HZ
Side-travel speed	0-1.25 ft/sec
Parts	Standard protection items/ high interchangeability
Hydraulic System	Maximum 2500 PSI
Inward Brush Pressure	Variable

STOPLOG LIFTER

	LP2040
Log Size + Rail Centres	To suit
Sluice Depth	30 feet
Boom System	Double telescopic
Control Station	Centre console
Power Supply	240/480/575V / 3 Phase / 60HZ gas, propane or diesel engines
Side-travel speed	Variable to 50 ft./minute
Breakaway Force	10,000 lbs/boom min. or to suit
Compaction Force	20,000 lbs/boom min. or to suit
Iron Style	Hook or spud
Log Contact Indication	Compactor plate-mounted
Hydraulic System	Maximum 2500 PSI

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™

