



EcoSift™

Cut your waterjet abrasive costs by 50% or more*

*Based on an operating pressure of up to 56,000 psi (3860 bar)



Used abrasive is not used-up abrasive

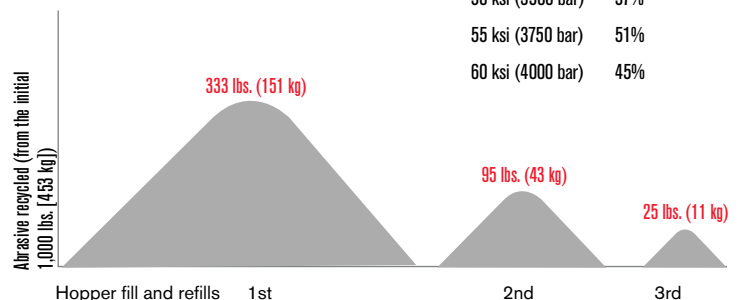
Now you can enjoy all the benefits of waterjet cutting at a fraction of the cost.

- Abrasives can account for up to 55% of waterjet costs.
- The EcoSift abrasive recycling system allows you to reclaim your reusable abrasive.
- The EcoSift can recycle garnet and aluminum oxide abrasive.
- The EcoSift's patented features make it easy to operate and run efficiently. These include, but are not limited to, a computer-controlled feedback loop to monitor and adjust critical recycling parameters such as abrasive moisture level (Patent No. 9,579,773).

Multi-pass recycle rate

Total amount recycled: 450+ lbs. (204+ kg)

Operating pressure	Multi-pass recycle rate
50 ksi (3500 bar)	57%
55 ksi (3750 bar)	51%
60 ksi (4000 bar)	45%

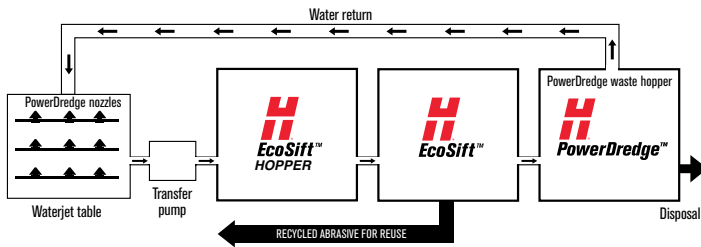


For every 1,000 lbs. (453 kg) of abrasive your waterjet table uses, the EcoSift abrasive recycling captures more than 450 lbs. (204 kg) of abrasive because you can recycle the reclaimed abrasive. We refer to this as the “multi-pass recycle rate.”

From table back to table

The EcoSift™ system is not complicated. Use it with the PowerDredge™ abrasive removal system to simplify the entire process.

1. Used abrasive flows to the EcoSift hopper where an abrasive slurry is created.
2. Abrasive slurry is vacuumed into the EcoSift unit.
3. Slurry is filtered. Overly small or damaged abrasive falls into a waste hopper or the Hypertherm PowerDredge.
4. Reclaimed abrasive is dried.
5. Clean, dry abrasive is deposited into a bag for reuse.



Where there is spent abrasive, there is opportunity

The EcoSift abrasive recycling system adds to your bottom line. In addition to reducing the amount of abrasive you need to purchase, it also:

- Reduces abrasive waste costs
- Reduces costs associated with new orders
- Reduces new material costs by taking in other shops' spent abrasive
- Allows you to offer a fee-based recycling program to other shops

Our patent-pending controls design minimizes operator involvement and improves system reliability.

The EcoSift can recycle garnet and aluminum oxide abrasive.

Nonoptimal conditions for abrasive recycling

Abrasive recycling may not function properly under the following conditions:

- Cutting at 90,000 psi (6000 bar)
- Cutting large amounts of materials with a melting point below 350° F (177° C)
- Do not cut with materials that float, such as plastic bricks or wood backing products. These materials can clog the system and can also adversely impact the quality of the reclaimed material
- Do not install this equipment in an environment where the temperature is below freezing

If you are unsure whether these issues apply, please contact your Hypertherm Sales Representative.

Dimensions	
EcoSift	76.5" D; 82.5" W; 98.5" H (1943 mm D; 2095 mm W; 2501 mm H)
EcoSift hopper	55" D; 47.8" W; 60" H (1397 mm D; 1214 mm W; 1524 mm H)
Weight	
EcoSift	2500 lbs. (1134 kg)
EcoSift hopper	500 lbs. (227 kg)
Air requirements	
	5 scfm @ 30 psi (2.1 bar @ 142 slpm)
Maximum supply pressure	
	100 psi (6.9 bar)
Maximum throughput	
	120 lbs. (54.5 kg) per hour

Electrical specifications		
	400 V EcoSift	480 V EcoSift
Phase	3-PH	3-PH
Hz	50	60
FLA	40 A	34 A
SCCR	30k A	30k A
IP	54	54
I _{max}	38 A	32 A
kW	24	24

The system uses 3-phase alternating current (AC) electricity. Some parts, such as valve solenoids and sensors, use 24-volt direct current (VDC) electricity from a power supply in the electrical enclosure.

Contact your Hypertherm Sales Representative

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Environmental stewardship is one of Hypertherm's core values, and it is critical to our success and our customers' success. We are striving to reduce the environmental impact of everything we do. For more information: www.hypertherm.com/environment.

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