

BARTH INDUSTRIES IMPROVES UPTIME, REDUCES COSTS

TIER 1 PRODUCER OF PRODUCTION PARTS SEES ROI FROM MAYFRAN'S AUTO SLUDGE BARRIER IN FEWER THAN SIX MONTHS

Barth Industries is a 100-year-old producer of quality production parts based in Cleveland, Ohio. The company is a Tier 1 supplier focused on full value chain for its customers, providing sourcing services, machining and assembly of parts. It serves a wide variety of industries, including material handling, transportation, aerospace and more.

Operating 20 hours a day, five days a week, equipment uptime and creating operational efficiencies are critical to Barth Industries, and it often relies on its trusted partners to assist with continuous improvement initiatives.

The Challenge

With excess fines from ductile and gray irons, Barth Industries was cleaning out the coolant tanks from its machine tools every two months. The entire process would take up to two days to complete, taking its production lines out of commission and workers off other vital tasks. Barth's President Rich Legan was determined to find a better, cost-effective solution.

Since Barth runs a wide variety of materials from iron to aluminum, a traditional magnetic chip conveyor was not an option. Having worked with Mayfran for more than 30 years, Mr. Legan reached out to his sales rep to find a different kind of system that would not only solve Barth's challenges, but could also be easily retrofitted into its existing lines with minimal downtime.



QUALITY, BUILT IN.

 **mayfran**
INTERNATIONAL
A MEMBER OF TSUBAKI GROUP

COOLANT COSTS REDUCED BY 30%

The Solution

Mayfran recommended its Auto Sludge Barrier solution that was designed specifically to remove coolant tank contaminants in metal processing. It could easily be installed and retrofitted to Barth's existing lines with little to no loss of productivity.

Mr. Legan quickly made the decision to install the Auto Sludge Barrier on one of its lines to see how it would perform, with the possibility of adding more later.

The Results

Barth Industries saw immediate results on the first line. In a 10-hour shift, the Auto Sludge Barrier removed eight pounds of contaminants that otherwise would have entered the coolant tank. Now the company has extended the time between tank cleanouts from 60 days to nearly six months.

The Auto Sludge Barrier extended the life of the tooling on the line because the coolant stays cleaner. According to Mr. Legan, Barth Industries has saved 30% on its coolant costs and has achieved improved equipment uptime with fewer tank cleanouts. The company received a complete return on investment from the first unit in fewer than six months, prompting Mr. Legan and his team to purchase three more units from Mayfran.

The Auto Sludge Barriers were also easy to install with no disruption to productivity. The units are portable, liftable by hand, easy to clean and can be retrofitted to both Mayfran and competitors' equipment. According to Mr. Legan, "With all of its benefits, the Auto Sludge Barrier exceeded my expectations in every way."

Auto Sludge Barrier Features and Benefits

- Compact and motorized automatic sludge recovery with integral permanent magnet.
- Plugs into any standard 110V receptacle.
- Removes ferrous chips, fines and tramp oils from steel, cast and/or ductile iron applications.
- Simplifies in-tank sludge recovery and disposal, improving uptime and reducing the frequency of coolant tank cleanouts.
- Reduces coolant cost by up to 30%, resulting in an ROI in less than a year.

Your Potential ROI

With Mayfran's Auto Sludge Barrier, you can expect payback within just one year.

Shown below are the expected savings when using a machine in conjunction with a nonmagnetic conveyor or a typical cast iron application.*

Labor cost savings from reduced tank cleanouts	\$800/year
Coolant cost savings	\$1,000/year
Savings from increased uptime through reduced tank cleanouts	\$1,600/year
Total Savings	\$3,400/year

* ROI is based on four tank cleanouts per year vs. eight, at four hours each.

For more information about material handling solutions from Mayfran International, visit MAYFRAN.COM.

