

CASE STUDY

**APPLICATION:
COLLECTION OF ALUMINUM SWARF**

**CUSTOMER:
ALUMINUM PROFILE CUTTING COMPANY**



OUR CHALLENGE: COLLECTING A LARGE AMOUNT OF ALUMINUM SWARF TO IMPROVE PRODUCTIVITY AND MINIMIZE DOWNTIME IN OPERATIONS.

Aluminum processing, like cutting profiles or frames, produces waste in the form of swarf and residues. If this waste isn't properly managed or disposed of, it can cause **machine malfunctions** and **slow down production**.

That's why it is essential to equip machines like cutting saws and CNCs with continuous extraction systems, to prevent buildup during cutting operations.

Our dust collectors provide a strong suction power and optimal airflow to capture all residues produced from the aluminum machining process

Benefits of maintaining a clean work environment free of aluminum residues:

- Reduced costs and downtime for machine maintenance compared to traditional cleaning methods;
- Enhanced quality of the final product;
- Clean and safe work environment.



OUR INDUSTRIAL VACUUM SOLUTIONS

FOR ALUMINUM SWARF

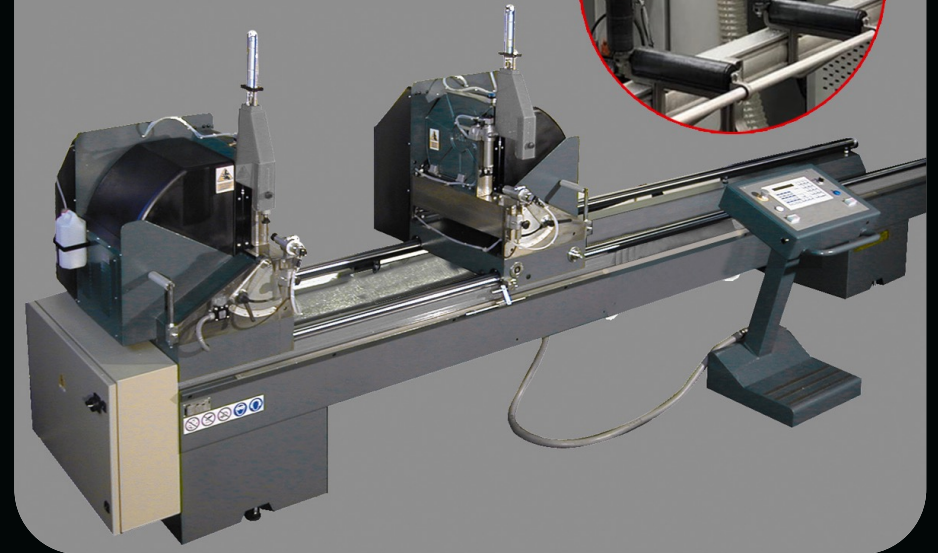
Our client needed to vacuum large amounts of aluminum swarf, produced by a large CNC cutting machine. The goal is to prevent the buildup of waste and continuously vacuum it **directly on board**.



Our industrial dust collectors are designed to extract chips and residues directly at the source, because they can be easily integrated on machinery.

Collect all the aluminum swarf and avoid machine downtime.

DIRECT SUCTION AT THE SOURCE



EXPLORE OUR INSTALLATIONS

CUSTOMER'S NEED:

Vacuuming a significant amount of chips generated by a **CNC cutting machine**.

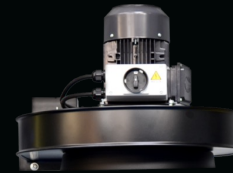


OUR CUSTOMIZED SOLUTION:

We have developed this customized suction solution to manage a large amount of chips. It consists of a powerful fan with a pneumatic discharge hopper

POWER: 4 KW

FILTER SURFACE: 110.000 CM2



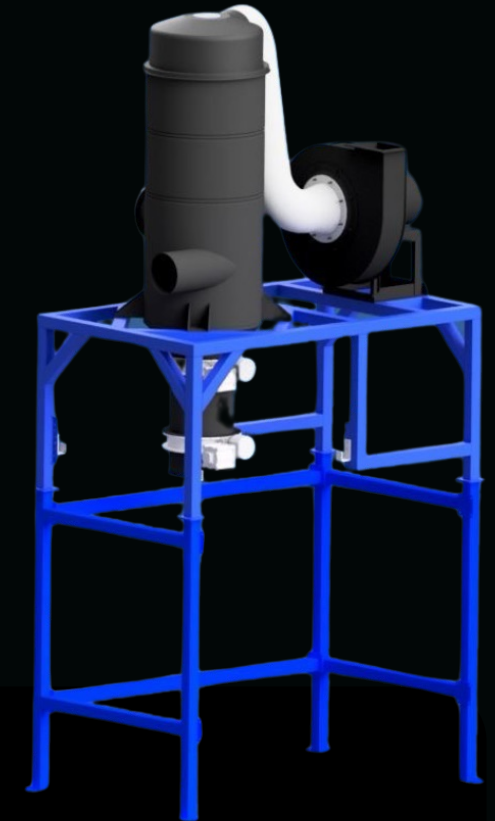
Electric fan



M class star filter



Double discharge with electropneumatic butterfly dampers



OUR INDUSTRIAL VACUUM SOLUTIONS

FOR ALUMINUM SWarf








SEAMLESS INTEGRATION WITH ALUMINUM CUTTING SYSTEMS

Our solutions can be easily integrated with cutting machines and they are designed to fit a **wide range of machine tools**.

Our **dust extractors** can be installed on:

- Single head cutting machine;
- CNC machines;
- Automatic saw machine;
- Large double-headed cutting machine.



NUMBER OF CUTTING HEADS	NUMBER OF VACUUM PORTS	VACUUM PORT'S DIMENSIONS	RECOMMENDED INDUSTRIAL VACUUM
1	1	up to 80mm	 ECOBULL
2	2	up to 80 mm each	TX 550 P TX 750 
1 or 2	1 or 2	from 80 to 100 mm each	 DF 22 
1 or 2	1 or 2	from 100 mm each	DV AIR 

DISCOVER MORE VACUUM SOLUTIONS ON OUR WEBSITE
WWW.DEPURECO.COM

