

CASE STUDY NAME

# LASER CUTTING EXTRACTION WITH PL-FILTER UNITS



## Case Study Facts

Products: PL-4000 &amp; PL-6000 Filter Units

Process:

CNC Laser Cutting

Brand: MAZAK Laser

Customer: MERCEDES BENZ - Turkey

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## Requirements & Challenges

MERCEDES BENZ has two production plants in Turkey. One of their plant, which is located in Aksaray, Turkey was facing a dust extraction problem at their MAZAK CNC laser cutting machine, due to the low performance of existing dust collector. The existing filter unit was installed together with the MAZAK laser, as an original part of the system. However, the existing filter unit has been creating problem since the system has been taken into operation. The existing dust collector had cartridge type filter elements with rotary cleaning system inside.

Unfortunately, the filter cartridges **were clogged constantly** and in a short time, which led to very **high maintenance expenses, high filter replacements costs** and also **production loss** due to unplanned stops. This was unacceptable for MERCEDES.

## SOLUTION

VANTERM gathered the required information from MAZAK and also from MERCEDES regarding the laser cutting machine. The PL-4000 filter unit was installed and replaced the existing filter unit. The first installation took place in May.2014 and this PL-4000 filter unit has been running **without a filter change for more than 5 years**. Afterwards, MERCEDES purchased the second VANTERM filter unit, this time a PL-6000 filter unit, for its another new MAZAK laser investment.



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