

## Case Story

### Problem:

Lisostroj E. I. is a manufacturer of hydro power plants equipment, producing housing and turbines that are large and heavy; up to 20 tons. Since they do not produce standard products, the extraction system must be flexible in order to be able to move the nozzles around. The production area, has 20-60 welders working and they are welding inside, outside and on top of the product. The pollution of the air is very heavy from the welding smoke



### Solution:

Working together with Mr. Dusan Smid, we found that the only solution to solve the problems on most of the working places was with a High Vacuum System. Together we decided that we will start step by step and build up the system for 1/3 of the production of the production in year 2000.

The system is as follows: VAC 20-3000 unit with on Flex Filter Twin, central duct system hanging on pillars with 7 droppers and 3 way branch couplers on every dropper. Welders are using up to 215 ft long hoses with different nozzles with magnetic and suction bases.



### Result:

The system was tested at full load with 21 welders working at the same time and the extraction was very good. The system is operating with a simultaneous factor of 0.7 and the results are even better. Lisostroj E. I. is also using the system for the cleaning of the workshop.

