

MULTIPLE ARMS IMPROVE WORK ENVIRONMENT

THE CHALLENGE

As a result of the annual review of the company's work environment, it was decided to obtain a new extraction system. The service workshop needed a high-quality extraction system to remove welding fumes, grinding dust and oil mist, preventing accumulation in the workshop.

The service workshop handles many different activities using an equally wide variety of machinery and tools. A flexible extraction solution was therefore a 'must'.

The main requirement was that the new extraction and filtration system should be able to handle: welding fumes, cutting fumes, grinding dust and oil mist.

CASE STUDY



G.C. Entreprise, Køge ApS was founded in 1984 in Denmark. Nowadays it has more than 20 years of experience with all kinds of activities in the construction industry. Today they employ 30+ people in no-dig solutions, cable laying and fibre optic installations.

www.gc-entreprise.dk



Advice, sales and installation have been accomplished by our authorised Plymovent distributor:

Dansk
Proces ventilation

www.dansk-procesventilation.dk



THE SOLUTION

Dansk Procesventilation ApS offered the following solution:

- Extraction from belt grinders with 2 x Ø 80 mm connections, directed to a cyclone via flexible hoses;
- Extraction for a pillar drilling machine via a MiniMan Ø 100 mm extraction arm;
- Extraction from a worktable via a KUA Ø 160 mm extraction arm.

To accomplish extraction from the worktable in the middle of the workshop plus various floor activities a FlexMax Ø 160 mm extraction arm was mounted with a reach of 5.5 m.

All extraction airflows are directed - via a centralised duct system - to the central filter MF-3I and FUA-4700 fan.

To switch the extraction system on or off the start/stop function is carried out with an on/off switch on all extraction arms, while for belt grinders the extraction starts automatically together with the belt grinder. The system is equipped with a mandatory control device.



MAIN BENEFITS

- Welders and other personal are protected and will work in a healthier work environment from now on.
- Welding fumes, dust and mist do not accumulate throughout the workshop anymore.
- A flexible solution was implemented, easy to adjust to changing working conditions.
- Intelligent control device saves energy, thus costs.



PRODUCT/SYSTEM FACTS

Products

- FlexMax extraction arm 5.5 m Ø 160 mm
- KUA-2 extraction arm 2.0 m Ø 160 mm
- MiniMan extraction arm 2.1 m Ø 100 mm
- Mechanical filter MF-3I with spark arrester
- FUA-4700 fan 2.2 kW
- Fan starter: SA-24

Year of installation

- 2009

Applications

- Welding fumes
- Cutting fumes
- Grinding dust
- Oil mist

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