

## DESCRIPTION

### ***Central vacuum installation in factory producing windmill blades***

#### **LOCATION**

Bangalore, India

**DATE OF INSTALLATION** : September 2009

#### **APPLICATION**

Central vacuum system for extraction of sanding dust ( max. 8 sanders working at the same time). One CVS for each of the six production lines (6 CVS in total, total 48 sanders)

#### **SYSTEM DESCRIPTION**

##### **SUCTION, FILTER AND COLLECTION UNIT**

- Each of the six line is served by a Delfin Suction unit DG300 HD PN (25 kW) with inverter / speed controller, to adjust the speed of the motor depending on number of extraction points in use and actual requirement for suction performance at a given time.
- 2 of the DG300 HD PN units are provided with an addition PLC control, to adjust the speed and airflow of the motor automatically, in relation with the number of extraction points in use at a given moment.
- Filtration system: each DG300 HD PN has 4 filter cartridges, providing a total surface of 26 square meters, in filtration class M. The filter cleaning process is automatic and carried out by a jet of compressed air (reverse pulse cleaning) provided by a compressor installed on the vacuum unit.



##### **FIXED PIPING**

- The vacuum unit is connected by means of a d. 120 mm. hose to the fixed piping running inside the working table (40 mt. long), where each blades is placed to undergo sanding process.
- From the fixed piping, each 5 mt. there is a branch, connecting to a hose (d. 50 mm.), linked to the sander.



