



Transport

## Tunnel Ventilation Fan

Eight stainless steel Jetfoil fans have been installed in a tunnel near Riva del Garda, Italy. The tunnel is 970 m long and 11 m wide. The fans can operate at a temperature of 400° C for 90 minutes, meeting strict fire safety requirements.

Another 14 reversible induction fans have been installed in a 1,580m long double tunnel near the town of Cesena, Italy. The blowing direction of the fans can be reversed in the event of a fire to direct smoke and heat away from people who may be caught in the tunnel during a fire. Ten of the fans are used during normal operation of the tunnel, while the remaining four fans are only used in emergency fire conditions. The fans are certified in compliance with the EN 12101-3 standards which means the fans can be operated for two hours in temperatures of up to 400° C.



**Location/environment** | RIVA DEL GARDA AND CESENA, ITALY/INDOOR

**Product** | STAINLESS STEEL SHEET

**Fabrication process**

**Grade/surface** | EN 1.4404 (AISI 316L)

**Material thickness/diameter**

**Weight**

**Competing material**

**Date of completion**

**Manufacturer** | FLÄKT WOODS SPA

**Material supplier**

**Source of information** | CENTRO INOX

**Remarks**



## Industrial Machinery

### Air Duct Unit

The manufacturer applied cellular sheet metal and laser cutting/welding technology to the design and manufacture of an air duct unit to be used under the forming section of a papermaking machine.



**Location/environment** | FINLAND/INDOOR

**Product** | COLD ROLLED STAINLESS STEEL SHEET

**Fabrication process** | LASER WELDING/CUTTING AND TRADITIONAL SHEET METAL WORK

**Grade/surface** | EN 1.4404/2B/1D

**Material thickness/diameter**

**Weight**

**Competing material**

**Date of completion** | MARCH 2008

**Manufacturer** | HIGH METAL PRODUCTION/METSO PAPER

**Material supplier** | OUTOKUMPU STAINLESS AND RUUKKI

**Source of information** | OUTOKUMPU OYJ

**Remarks** | THIS PRODUCT WON THE PLOOTU FENNICA AWARD IN 2008.



64

## Industrial Machinery **De-dusting Device**

This de-dusting device removes unwanted particles from the air. Ease of cleaning and long life make stainless steel a good choice for this application.



- Location/environment | CHINA/INDOOR
- Product | STAINLESS STEEL PLATE
- Fabrication process | FORMING AND WELDING
- Grade/surface | 317L
- Material thickness/diameter
- Weight
- Competing material | CARBON STEEL
- Date of completion | 2007
- Manufacturer
- Material supplier | TISCO
- Source of information | TISCO
- Remarks