



# Drying Plant for Mould Shavings

## Stena Recycling, Skövde, Sweden

### This project

Stena Recycling needs a drying plant to dry mould shavings for recycling purposes.

Torkapparater delivered a complete facility for handling and drying of the material.

### YEAR OF DELIVERY:

2011

### TECHNOLOGY:

Indirect tubular flue gas dryer  
Bojner systems.

### TREATED MATERIAL:

Mould shavings 15 ton /h

### EVAPORATION CAPACITY:

Totally up to 1 ton /h

### DRYNESS IN/OUT (w%):

Approx. 6 / 2

### HEAT SOURCE:

Flue gases from oil burner.

### GAS / DUST CLEANING:

Dry separation in filter

### SCOPE OF DELIVERY:

Material handling with feed, input and discharge, dryers, ventilation system incl. filter, PLC and MCC systems, etc.

### Alternative solutions

We offer tailor-made systems for drying of all types of solid materials – indirect systems in one or two steps being our specialty. Besides steam, exhaust gases, thermal oil, etc can be applied as heat source. We also offer direct drum drying which is a simple and robust technology, however with less opportunities for heat recovery and elimination of fire hazards. Please get in touch with us and explain your situation!



The drying takes place in a rotary tubular dryer which is heated indirectly by flue gases.

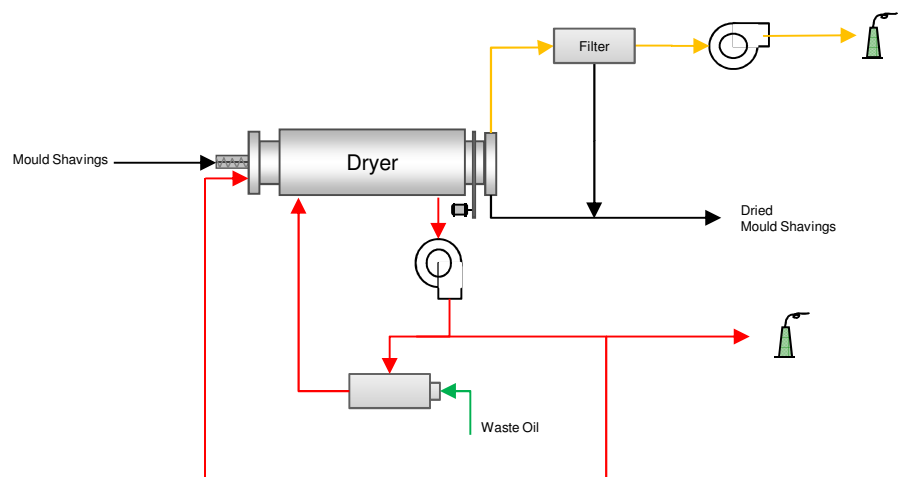
The flue gases are generated in an adjacent hot gas heater with an oil burner. The flue gas from the burner is mixed with part of the cooled flue gas from the dryer in order to reach the desired temperature at the dryer inlet. This allows the drying process to be controlled at the required operating point.

The part of the flue gases which is not

recirculated is used as ventilation gas inside the dryer in direct contact with the material.

The ventilation gas after the dryer is passed through a filter in order to separate dust from the gas before it is released through a stack to the atmosphere.

In order to optimize the drying process, the material is cooled down after the dryer in order to avoid exothermal effects during storage.



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