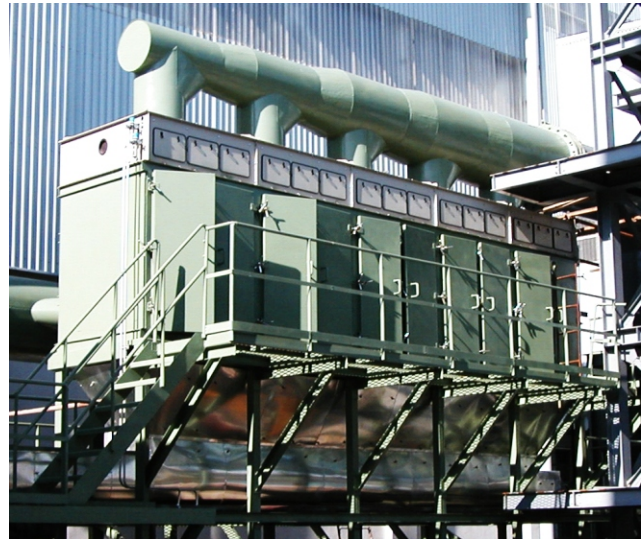


## ■ Process: Manufacturing of seamless stainless steel pipes, China



### ■ The Task

Manufacturing seamless pipes creates high demand on the availability of the entire production process. The production facilities are designed for a constant operation of three working shifts over the complete year. This is the only way to reach consistent good quality standards and realize a payback of investment costs.

Dust is collected at three process steps:

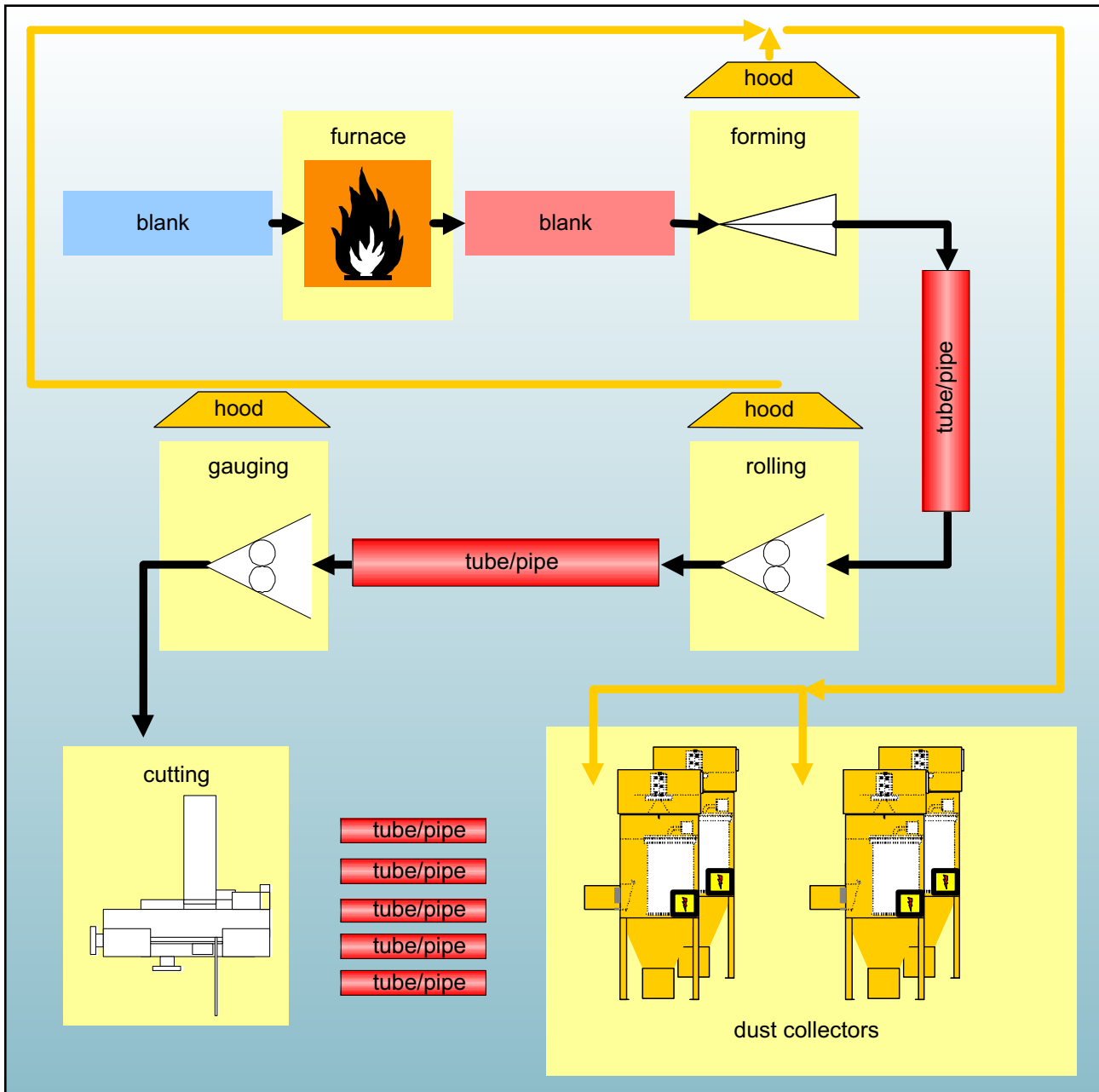
- 1) During the process of forming the pipe over a floating mandrel the dust consists of a mixture of graphite particles and metal oxides
- 2) During the process of reducing the tubes' wall thickness by several mostly transverse arranged rollers a layer of metal oxide splits off. To ensure high quality surface finishes secure dust removal must be guaranteed
- 3) Water cooling is used during smoothing and gauging of the tubes. The exhausted dust consists of a mixture of steam and metal oxide.

### ■ The Solution

#### **Herding® Filtration System for manufacturing seamless pipes**

- ⇒ Air flow of up to 320,000 m<sup>3</sup>/h
- ⇒ Easy removable collecting hood with high input speed
- ⇒ Water-repellent PTFE-coating for collection of the dust-steam-mixture
- ⇒ Hopper with a heating system for outdoor installation to avoid freezing
- ⇒ Maximum availability of the filter system thanks to the compact rigid body of the filter elements with an average life time of up to 10 years
- ⇒ Constant pressure drop and constant exhaust air flow thanks to a pure surface filtration
- ⇒ Constant good product qualities within every processing stage
- ⇒ Several first-class references within the steel industry

Process: Manufacturing seamless stainless steel pipes ...  
... and the solution of the dust problem



**The Herding® Sinterplate Filter:**

**The advantages**

- ⇒ Constant production quality due to constant air flow
- ⇒ PTFE-coating on the filter elements and thus pure surface filtration and capability to exhaust dust-steam-mixtures
- ⇒ Filter elements as antistatic version available to improve cleaning of self-charging dust
- ⇒ Compact rigid filter body with maximum life time guarantees pure productivity

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