



Dust collection and ventilation systems

- ▶ Nozzle plates/whirl hoods
- ▶ Shake out conveyors
- ▶ Pouring equipment
- ▶ Iron treatment stands
- ▶ Multi slot collection hoods
- ▶ Sorting conveyors



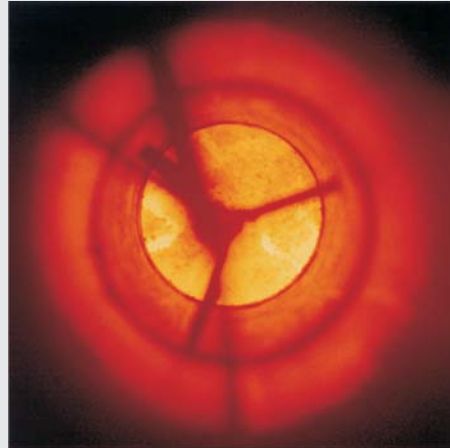
Process Automation

- ▶ Switch boards
- ▶ Basic automation with PLC
- ▶ Process control and visualisation systems
- ▶ Production planning systems
- ▶ iIM Industrial Information Management



Foundry Planning

- ▶ Vuylsteke, Belgium
- ▶ Electrolux, Belgium
- ▶ LuK, Brasil
- ▶ Busch, Germany
- ▶ Flender, Germany
- ▶ Lingotes, Spain
- ▶ Caetano, Spain
- ▶ Hubner, Brasil
- ▶ Leszczynska Fabryka Pomp, Poland
- ▶ Georg Fischer Mettmann, Germany



KÜTTNER was founded in 1949 by Dr. Carl Küttner as an engineering company and has ever since evolved into a group of companies working worldwide in plant engineering and construction. The company supplies and erects turnkey installations for a wide range of process technologies, including melting and material handling in the iron, steel and foundry industries.

Küttner is leading supplier for Cupola melting plants and well known as an experienced supplier of customised foundry plants.

Services include development of new technologies, engineering and design, supply, installation, and start up of plants complete with controls and data processing systems.

The KÜTTNER-Group works with more than 550 employees worldwide and is represented in the international markets through a network of affiliated companies or agents.



Foundry Technology



Charging Plants

- ▶ Scrap batching with crane and vibrating feeder
- ▶ Fully automatic charging cranes
- ▶ "Kangaroo" charging crane
- ▶ Charging cars with
 - ▶ open design
 - ▶ noise/dust enclosure
- ▶ Scales, travelling/stationary weighing belt conveyors
- ▶ Bucket hoists
- ▶ Scrap drying plants for swarf or bales
- ▶ Alloys batching systems
- ▶ Inoculant dosing systems



Robot Automation

Vision controlled robots manipulating

- ▶ Cores
- ▶ Filter, inoculation pads

with 3D-image processing for

- ▶ mould and core shape control
- ▶ detection of foreign pieces



Sand preparation for bentonite systems

- ▶ Lump breaker and vibrating screens
- ▶ Belt conveyor and bucket elevator
- ▶ Inclined/vertical conveyors
- ▶ Fluidized bed sand coolers
- ▶ Vibrating conveyors and silo discharge equipment
- ▶ Hopper dosing and weighing equipment
- ▶ Flexible hopper with discharge equipment
- ▶ Dedusting equipment
- ▶ Pneumatic transport system

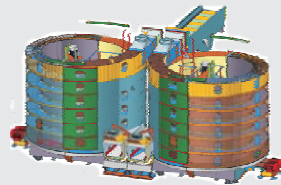


Cupola Melting Plants

- ▶ Hot and cold blast cupolas
- ▶ Wet/ dry gas cleaning
- ▶ Heat recovery
- ▶ Bare shell and lined shafts
- ▶ Atmospheric/pressurized siphons

Iron-/ Slag treatment

- ▶ Nodular iron treatment
- ▶ Desulphurization of iron
- ▶ Dry / wet slag granulation
- ▶ Deslagging stands



Castings-Sand Separation

- ▶ Pre-separator shake-outs
- ▶ Variable shake-outs „Multispeed“
- ▶ Hooking systems
- ▶ Vibrating shake-out drums
- ▶ Rotating shake-out drums
- ▶ Hot castings transport feeder/conveying belts
- ▶ Castings cooler as
 - ▶ vibrating conveyor
 - ▶ spiral vibrating conveyor
 - ▶ cooling tunnel
- ▶ Knock off and sorting conveyors before/after shot blasting
- ▶ Shake-outs, stationary and travelling
- ▶ Turn tables
- ▶ Transport systems for boxes



Sand regeneration for resin bonded systems

- ▶ Noise and dust enclosures
- ▶ Shake out, up to 100t load
- ▶ Integrated shake-out & lump breaker
- ▶ Vibrating lump breaker
- ▶ Regeneration plants
 - ▶ Mechanical process
 - ▶ Thermal process
 - ▶ Compact units
- ▶ Airlift for vertical transport of hot sand, up to 600°C
- ▶ Vibrating spiral elevators
- ▶ Screens and cascading sifters
- ▶ Fluidized bed reactors with cooling, cleaning & sifting
- ▶ Pneumatic transport systems
- ▶ Dedusting plants