

辊底式炉热处理生产线
Roller Hearth Furnace Plants

辊底炉型式示例 Roller Hearth Furnace Model Samples

辊底炉生产线控制系统
Roller Hearth Furnace control System



Φ35mm 辊棒热处理生产线
Φ35mm Roller Hearth Furnace Plants



辊底式炉热处理生产线
Roller Hearth Furnace Plants



真空锁气室 (用于等温退火线)
Vacuum lock chamber (for Isothermal annealing)



辊底式炉热处理生产线 Roller Hearth Furnace Plants

Heat treatment with and without protective gas (inert or reaction gases).
direct gas or electric heating.

Indirect gas or electric heating via radiant tubes.

Fully automatic heat treatment up to a "manless" (without operators). production, directly interlink able with the soft part and the hard part machining.

Throughput capacities depending on the geometry of the workpiece, starting at 50kg/h.

Temperatures up to 950°C.

Further possible heat treatment processes

Martensite hardening	Bainit hardening
Normalizing	Isothermal annealing
Carburizing	Carbonitriding
Nitrocarburizing	Stress-free annealing
Solution annealing and aging of Aluminum	

Roller hearth furnace plant for hardening and tempering bearing Rings, integrated into the manufacturing line:

Annealing	Hardening	Air cooling	Washing
Rising	Drying	Tempering	Cooling

Accessories: Components for direct interlinking

different quenching devices for different media (salt, oil, polymer emulsion, water)

distortion-low quenching with the patented AICHELIN spring flooding device.

high speed gas quenching station for thin-walled workpieces.

hardening press systems.

automatic supplying systems.

handling technology for a charging compilation, stacking and de-stacking.

automatic charging and discharging devices.

weighing systems

automatic washing plants.

subsequent cooling devices.

The AICHELIN Furnace Operation Control and Optimization System, FOCOS is a process control system for the integration of heat treatment into the modern manufacturing process.

Guided by the idea of the computer integrated manufacturing, the FOCOS is structured modularly and covers the required CIM functions of the production field to a large extent, while the need of the heat treatment is considered.

The automation of our roller hearth furnaces is done via the FOCOS II system. herewith after setting of the process parameters. time, temperature, C-level, etc. and the required heat treatment goods.

By using memory programmable controls besides the fully automatic adjustment and control of the function run-offs even other tasks like:

- Error message
 - Error diagnosis
 - Operator guidance
 - Process visualization
 - Data Acquisition
- can be served.

泉涌式淬火专利原理图
Spring Flood quenching

