

DETAILS AT A GLANCE

1. GENERAL VARIANTS:

We offer our heat treatment furnaces for parts made of aluminum in the following versions for your individual choice:

- Roller-hearth type furnaces
 - Conveyor - chain type furnaces
 - Conveyor - belt type furnaces
 - Pusher type furnaces
 - Rotary - hearth type furnaces
 - Box type furnaces
2. CAPACITY RANGE:

- Throughput - capacity: 100– 6.000 kg/h
 - We'll be pleased to offer according to your specific needs
3. APPLICABLE PROCESSES:

- Heat-up for hot forming
 - Homogenize annealing
 - Solution annealing
 - Artificial aging
4. RANGE OF COMPONENTS:

- Automotive – aluminum-fasteners & rivets
 - Automotive – engine components
 - Cylinder heads
 - Engine blocks
 - Crankshaft housing
 - Automotive – body- and structural components
 - Automotive – wheel rims
 - Parts for aerospace industry
 - Miscellaneous profiles and parts
5. AVAILABLE SOURCES FOR HEATING:

- Gas radiant tube heating (various radiant tube designs available)
 - Direct gas heating
 - w/ state of the art recuperative, energy efficient burners
 - Electric heating
6. ACCESSORIES AND COMPANION EQUIPMENT

- Automated loading and unloading systems w/ robots
 - Quenching systems utilizing the following media: Polymer, water, air
 - Trays and fixtures, prepared for loading & unloading by robots
 - Air (post) cooling equipment
 - Integration of quality inspection-, straightening - and data-matrix coding systems
 - Control cabinets and automation systems w/ fail-safe PLC
 - Heat treatment report in conformity with CQI-9 und VDA requirements

The photos on the front page show 2 automated T6 roller-hearth furnace lines for solution annealing, water or air quench and artificial aging of automotive -components

- reeler hearth furnace plants
 - roller hearth furnace plants
 - gas carburizing plants
 - chamber furnaces
 - rotary hearth furnaces
- quenching baths / air quenching
 - charging devices / means of transports
 - handling technics / robots
 - inner welding coil machines
 - rebuildings, modernization of old plants
- automation and switching systems
 - specialized staff for installation, maintenance and repair
 - certificated :
DIN EN ISO 9001:2008

Heat Treatment Lines for Aluminum



T6–Lines w/ water- and air quench

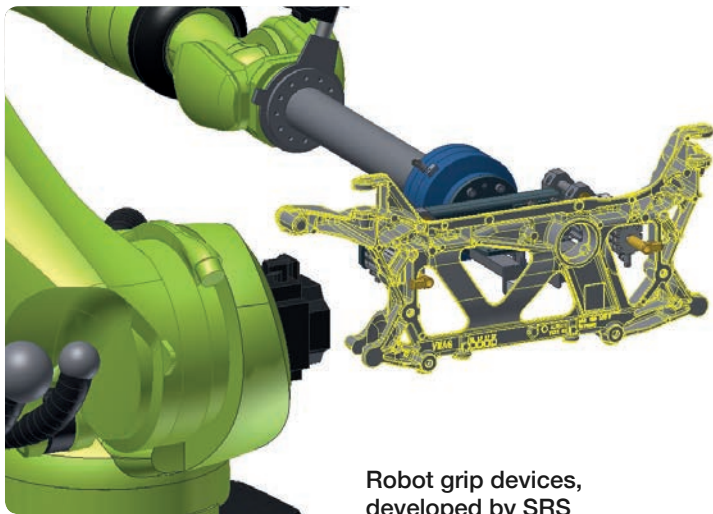


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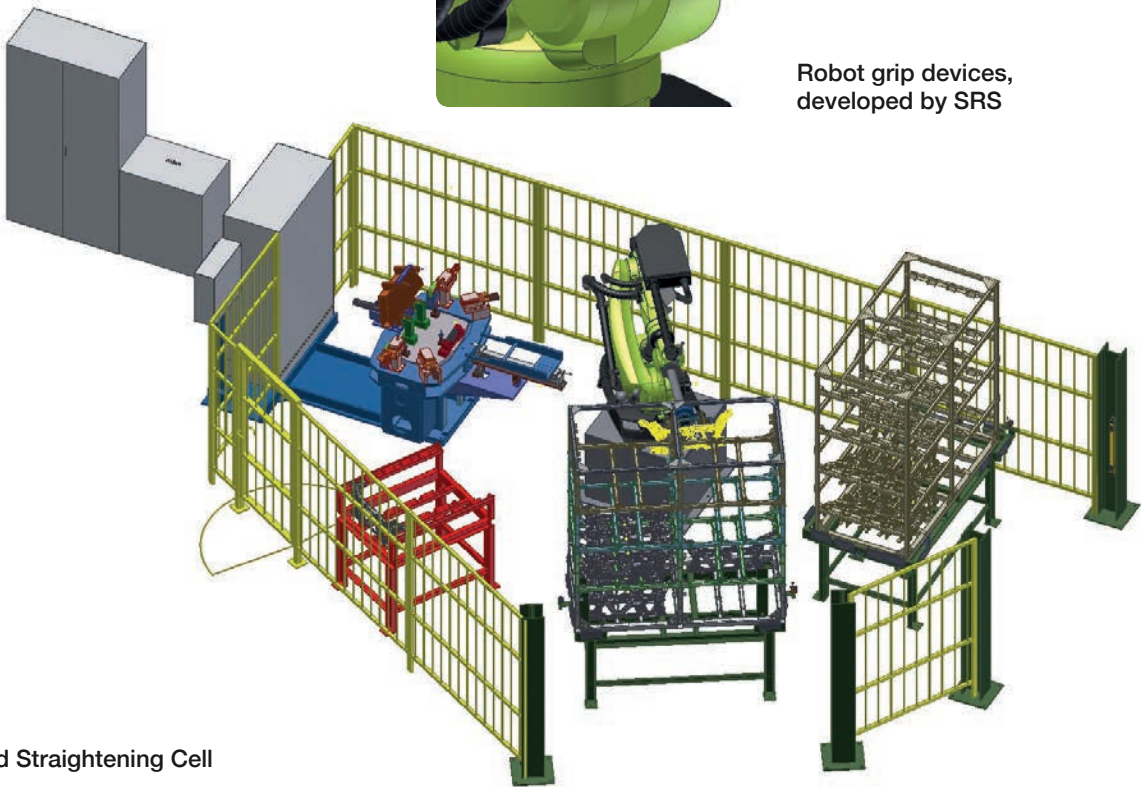
Automated Parts Handling by Robots



Photo above:
Rack, loaded by robots



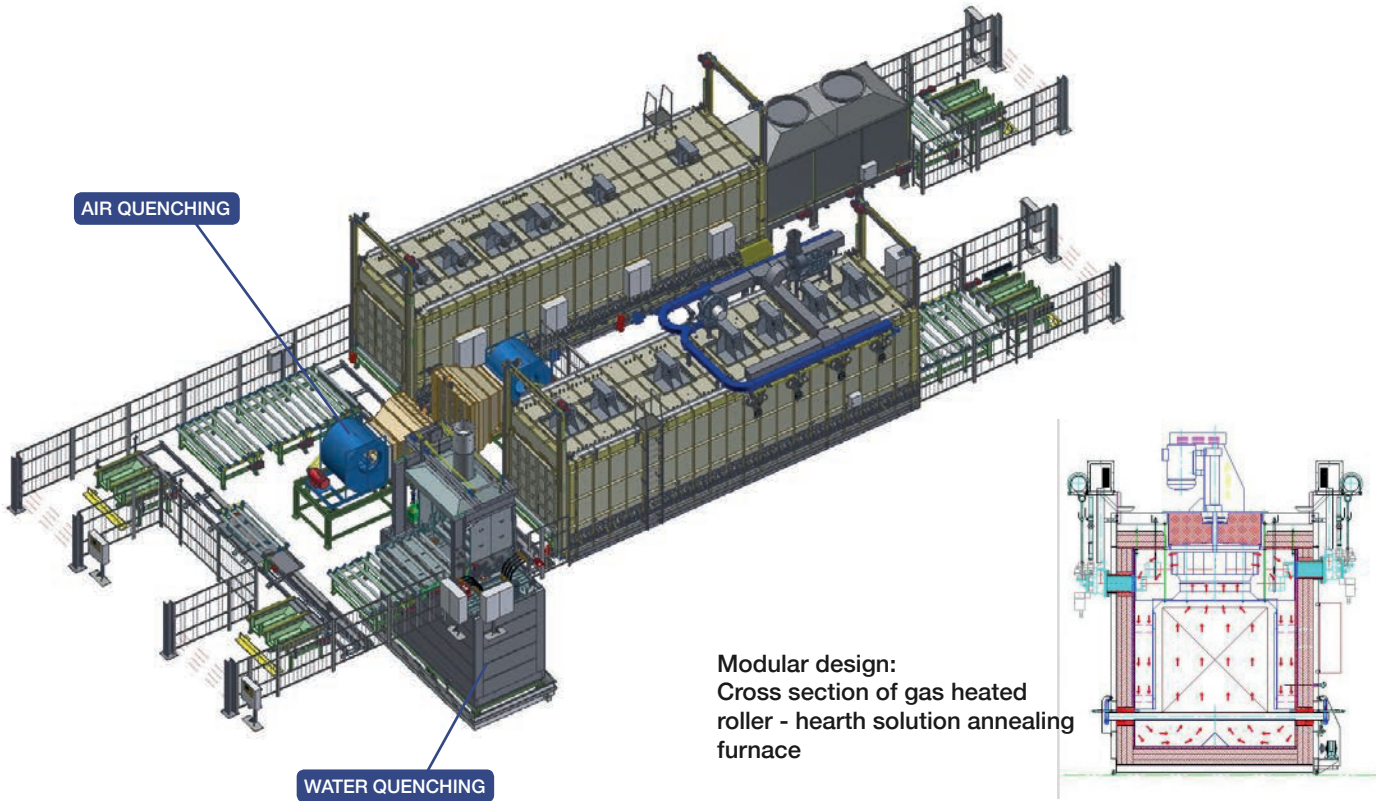
Robot grip devices,
developed by SRS



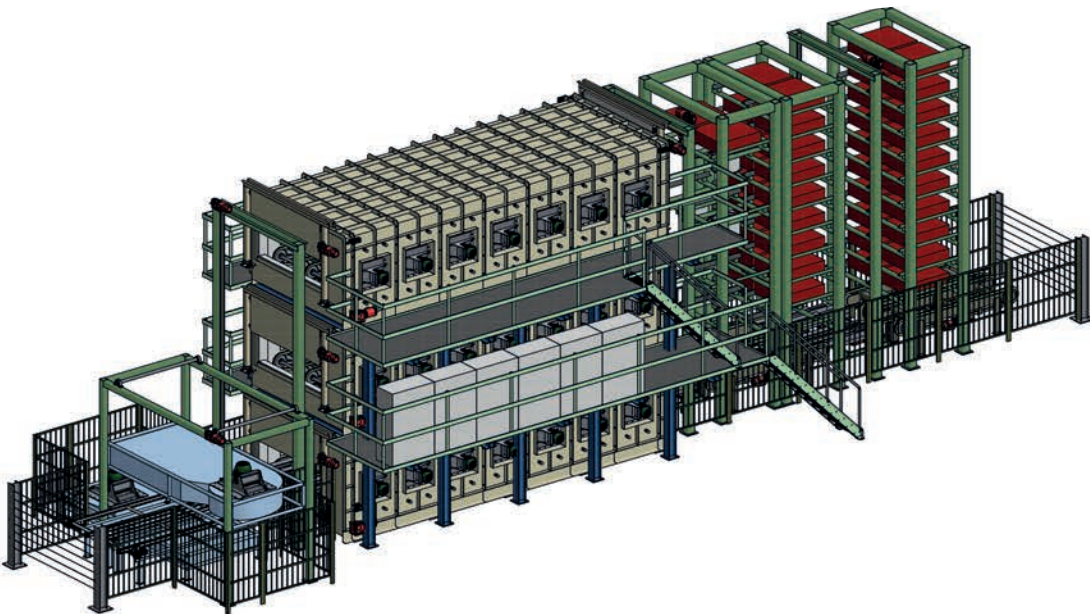
Automated Straightening Cell

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T6 - Roller-hearth furnace line for engine - and suspension parts



T6 – Conveyor chain type furnace line for bumper housings



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