



Performance increase of copper annealing plants by modern WSP strip floatation furnaces

- Replacement of Furnaces -



- WSP-strip floatation furnaces guarantee high annealing capacity and best material quality
- New strip floatation furnaces for higher max. annealing temperature can be integrated into existing strip lines
- Nozzle systems for thin strips guarantee excellent strip stability and strip planity even at high annealing temperatures
- Nozzle systems for thick strip guarantee high floatation forces.
- WSP offers several types of strip floatation furnaces, so every customer will get the optimal solution: one or two fans per zone, fans in the side walls, the bottom, or the top
- WSP has already replaced numerous strip floatation furnaces of other manufacturers against WSP floatation furnaces to achieve an increase of performance of 25 % and an increase of the max. furnace temperature
- Latest burner generation guarantees high combustion efficiency and lowest NOx-emission
- Straight cylindrical radiant tubes for long lifetime (no P-shaped tubes)
- Hot gas fans are from own production and are optimally adapted to the relevant application
- The impellers of the hot gas fans are designed for long lifetime, they are made of high-quality stainless steel and nickel based alloys. The design has been optimised by FEM analyses.



Data:

- Possible strip thickness: from 15 μm (foils) up to 5 mm
- Possible strip width: 200 mm to 1.300 mm
- Possible max. furnace temperature: 750 $^{\circ}\text{C}$, 800 $^{\circ}\text{C}$, 850 $^{\circ}\text{C}$
- Operation under protective gas: nitrogen with up to 5 % H_2 , optionally with 25 % H_2 in nitrogen