MOST ADVANCED SPECIAL STEEL PLANT IN THE WORLD

BÖHLER EDELSTAHL GMBH & CO KG, KAPFENBERG

- Investment volume: up to EUR 350 million
- The most advanced plant of its type in the world
- New benchmarks in product quality, digitalization & environmental standards
- Secures the corporate location at Kapfenberg with over 3,000 employees
- Groundbreaking ceremony: 2018
- Construction period: 3 years

PROCESSES & FUNCTIONS AT THE SPECIAL STEEL PLANT

Automation & digitalization:
- Fully digitalized & automated production processes
- Central control stand

One melting and two casting halls cover the entire special steel production process:

1) Highly efficient electric arc furnace:
   - Core of the plant
   - Raw material (ultra-pure scrap) is melted down into steel
   - Capacity: 60 tons

2) Treatment furnaces:
   - Addition of high-quality alloys
   - Production of particularly tough, temperature and corrosion-resistant steel grades
   - Automated target-state analysis

3) Casting & solidifying:
   - Robots cast material into molds (= ingot molds)
   - Preparation for processing

4) Extraction & transport:
   - Extraction of the steel ingots from the ingot molds
   - Processing by voestalpine companies & external customers
   - Annual production capacity: ~ 205,000 tons of special steel

PRODUCTS & APPLICATIONS

Manufacture of high-performance steels as pre-material for the...

Aerospace industry  Automotive industry  Oil & gas industry