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Introduction

FAI-FTC SpA is an Italian Company Leader in Stainless and Heat Resistant Steel CENTRIFUGAL & STATIC CASTINGS

Centrifugal

Static Casting
FAI-FTC SpA is offering specific solutions for the Mechanical Industry starting from the DESIGN concept phase to the production of FINISHED PRODUCTS.
Introduction

FAI-FTC SpA is an Italian Company

Leader in Stainless and Heat Resistant STEEL ALLOYS

Steel Industry

Heat Treatment
Introduction

FAI-FTC SpA is an Italian Company

Leader in Stainless and Heat Resistant STEEL ALLOYS

Petrochemical

Mechanical
FAI SpA was founded in 1978 in Manerbio (BS) on the basis of the technical and industrial experience of the families Polignano and Garavaglia.

From the beginning the Company is focusing the activity on Heat Resistant Stainless Steel Products products for Steel Industry based on Static & Centrifugal Casting Products.

In the year 1989 it was founded the FTC SpA Centrifugal Cast Tubes production and the Mechanical Workshop, based in new plant in Pontevico (BS), where it was developed the production of a wide range of rolls, radiant tubes and other products based on centricast tubes, cones and bushes.

In 2003 both the companies were merged in FAI-FTC SpA, The Special Steel Foundries.
Company Profile

Nr. 2 Production Plants: Manerbio - BS (Brescia) and Pontevico- BS (Brescia)

> 50 Employees and Turnover from 15 to 20 Million €

Production > 2,000 ton/year of Stainless Steel Alloys

Nr. 4 Business Units to cover the requirements of customers based in Europe and all over the world

Quality Certification ISO 9001
Mission

- Development of *Technical Assistance*
- Manufacturing of Casting *Finished Products*
- Technological *Innovation*
- Reliable *Flexibility* in order to comply with the most demanding service requirements
- *Internationalisation* able to follow the presence of the customer in the world
Geographic Location

Manerbio PLANT

Pontevico PLANT
PONTEVICO Plant

- Head Quarter & Centrifugal Casting Foundry
- Total Area  20,000 m²
- Covered Area  5,000 m²
- Production Area  4,250 m²
- Office Area  750 m²
Centrifugal Casting Foundry

- **INDUCTION** Furnaces (from 350 to 3,000 Kg)

- **HORIZONTAL & VERTICAL** Machines

- **AUTOMATIC SAND BLASTING**
Machining, Welding & Assembling

- **CNC Machining**
- **MIG & TIG Welding**
- **AUTOMATIC Robotised Welding**
- **DYNAMIC Balancing**
MANERBIO Plant

- Static Casting Foundry
- Total Area 5.000 m²
- Covered Area 2.500 m²
- Production Area 2.250 m²
- Office Area 250 m²
Static Casting Foundry

- **INDUCTION**
  Furnaces (from 350 1,000 Kg)

- **GREEN SAND MOULDING**
  Machines

- **RESIN BONDED MOULDING**
  Machines

- **AUTOMATIC Moulding Machines**
Steel Alloys Selection

• **HEAT Resistant** Alloys
  i.a.w. ASTM & DIN Specification
  ➢ High Temperature
  ➢ Weldability
  ➢ Fatigue Resistance
  ➢ Oxidation Resistance
  ➢ Thermal Shock Resistance

• **CORROSION Resistant** Alloys

• **PROPRIETARY** Alloys
  ➢ Very High Temperature
  ➢ Strength & Oxidation Resistance
  ➢ Carburization Resistance
  ➢ High Ductility
MECHANICAL DESIGN & FEM ANALYSIS
Technical Assistance

CASTING PROCESS SIMULATION

Liquid phase: 79.856%
Technical Assistance

MICROGRAPHIC STRUCTURE & METALLOGRAPHIC ANALYSIS
Steel Market reference

ArcelorMittal
Outokumpu
NLMK
ThyssenKrupp
SSAB
Ruukki
Salzgitter Mannesmann Precision
Dillinger Hütte
Ilserburger Grobblech
Marcegaglia
Magnitogorsk Iron & Steel Works
Voest Alpine
Furnace Market reference
Heat Treatment Market reference
Product Range

Foundry Centrifugal Casting Parts

- CENTRIFUGAL CASTING TUBES
  - RADIANT TUBES
  - ROLLS

Foundry Static Casting Parts

- GRATES
- BASKETS
- WALKING BEAMS AND COLUMNS
  - LINK CONVEYOR BELTS
  - INSERTS
- SKIDS, GUIDES & BRACKETS
Centrifugal Casting Tubes

- Diameter Size
  from 77 to 1400 mm

- Length
  max 5700 mm

- Thickness
  from 8 to 100 mm

- Weight
  max 3,000 Kg
Radiant Tubes

- **M** - Shape
- **P** - Shape
- **U** - Shape
- **I** - Shape
M - Radiant Tubes
M - Radiant Tubes

Old Concept Design
M - Radiant Tubes

New Concept Design
M - Radiant Tubes
U & I - Radiant Tubes
- CGL WATER COOLED Steel Mill Rolls
- CGL & CAL Deflector Rolls
- Plate Furnace Rolls
- Brush Rolls
- Hearth Rolls
- Transport Rolls
- Galvanizing pot Rolls
CGL & CAL Deflector Rolls

Ø 1200 mm

Ø 800 mm
CGL & CAL Deflector Rolls
Plate Furnace Rolls
Hearth Rolls
Transport Rolls
Brush Rolls
Galvanizing Pot Rolls
Cones & Accessories

- Centrifugal Cones
- Static Brackets
- Machined Bushes (Max Outer Ø 800 mm, Max Height 900 mm)
Walking Beam Furnaces

- **Pipe Beams**
- **Heavy Plate Beams**
- **Heavy Plate Lift Housings**
- **Single & Double Columns**
Heavy Plate Beams
Pipe Beams
Columns
Lift Housings
Quality Inspection

CHEMICAL COMPOSITION CERTIFICATION
(SPECTROGRAPHIC ANALYSIS)
Quality Inspection

DIMENSIONAL CONTROL & PRESSURE LEAK TEST
Quality Inspection

Dye PENETRANT & X-Ray CONTROL
Quality System

Quality Certification: ISO 9001
Quality Policy

The QUALITY is the key factor to an excellent Customer Satisfaction:

• **Focusing** on the *customer requirements* as result of resources investments in innovation and new technologies

• **Involving** the customer with a *long-term relation* on the basis of an effective technical and commercial assistance

• **Providing** the customer with a *reliable flexibility* of the service

• **Applying** carefully the *continuous improvement* method to the process development
SHAPING the FUTURE

CASTING DURABILITY