



The offices are based in **Caslano** TI, in Switzerland, in over 500 sqm.
A storage allows the necessary space for spare parts distribution.

*We can count on a combined experience of
over 100 years in the foundry and metallurgy industry!*

Foundry Technology Engineering
Metallurgical Steel Plant Engineering
Mechanical Basic and Detail Design
Electrical Hardware and Software Development
Machinery Commissioning and Start-Up
On Site and Remote Assistance
Spare Part Distribution
Worldwide Sales

FEM
ENGINEERING

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FEM
ENGINEERING

MAKING THE DIFFERENCE



AREAS OF ACTIVITY

Our team has the engineering skills and technical know-how in the following domains:

CHEMICAL BONDED SAND SYSTEMS

- sand preparation
- molding
- pouring and cooling
- casting shake out
- sand reclamation
- sand distribution
- dust extraction
- automation and second level software

CORE PRODUCTION PLANTS

- sand preparation
- core shooting machines
- automated cells
- core handling
- automation software
- robot programming

GREEN SAND FOUNDRY

- METALLURGICAL STEEL PLANTS
- PIPE HANDLING PLANTS



ENGINEERING STUDY

CONCEPTUAL DESIGN OR FEASIBILITY STUDY

A Conceptual Design is focused on a customized foundry solution performed in co-engineering with the final customer. The main phases are:

- process technology
- production mix definition
- process flow diagram
- conceptual and final layout
- 2D and 3D layout
- preliminary foundation drawings
- budget quotation
- utilities data
- project timing schedule

FRONT END ENGINEERING DESIGN (FEED)

The FEED is representing a further engineering step. The main phases are:

- project organization chart
- list of equipment definition
- final layout
- final foundation drawings
- analysis and final investment cost definition
- 3D plant simulation
- automation strategy

BIDDING SUPPORT DURING EXECUTION PHASE CONTRACT (EPC)

DETAILED ENGINEERING OF THE EQUIPMENT



TECHNICAL ASSISTANCE

IN HOUSE SERVICES

- automation software programming
- existing software support
- remote automation assistance
- software upgrades for existing equipment
- electric diagrams design
- HMI upgrade and electrical panel improvement

ON SITE SERVICES

- mechanical assembly supervision
- electrical wiring
- software validation and support and commissioning until full production
- machinery start-up and commissioning until full production
- production ramp up assistance
- technological assistance



SPARE PARTS SUPPLY

As Independent After Market Vendors, we offer compatible spare parts for all kind of foundry and metallurgical steel plant equipment:

- commercial (available on the market)
- on customer specification
- as per customer drawing