HEADQUARTERS  
Fornovo di Taro - (PR)  
PLANT 1

PRODUCTION UNIT  
Rubbiano di Solignano- (PR)  
PLANT 2

BEAM-IT SPACE  
Rome - R&D UNIT  
PLANT 3
PLANT A
Fornovo di Taro
Strada Prinzera n.17
(PR) - ITALY

PLANT B
Rubbiano di Solignano
Via Volta n.40
(PR) - ITALY

30
AM systems

2
Production units

1
R&D unit

1
AM Competence Center

1
Special Process
Competence Cluster
QUALIFIED MATERIAL

DMLS - SLM - EBM

17-4 PH
15-5 PH
AISI 316L
Stainless CX
CoCrMo
AISi10Mg
Ti6Al4V
Inconel 718
Inconel 625
Inconel 939
Hastelloy X
Silver
Copper

Metallurgy in «as printed» «condition, prior to HT
1 System → 1 material (one room, to avoid any contamination)

- Frozen process and project
- Quality certifications, e.g. Nadcap
- Vacuum heat treatment and Air furnace (Aluminium)
- I.P. protection
- Investments in:
  - State-of-the-art technologies
  - State-of-the-art labs
  - Valuable human resources: MINDS
  - Universities & Research Centers - strong partnership
MANUFACTURING CAPABILITIES

- Additive Manufacturing Systems
  - 30 Systems
    - 25 Metals, Powder Bed Fusion
    - 5 Polymers
- Vacuum Hardening Furnaces
- Air Furnace
- Machining* (EDM internal facilities)
- Hot Isostatic Press

CHARACTERIZATION CAPABILITIES

- Powder Characterization*
- Mechanical Characterization (incl. Static + Fatigue* & DT)
- Fracture Mechanics Testing*
- Metallurgical Characterization
- Residual Stresses*
- Corrosion/Stress-Corrosion*
- CMM Inspection*
- Laser Scanning
- NDI
- CT Scan & X Ray*
POWDER BED FUSION BUILDING VOLUME

250 x 250 x 180 (mm)  3 SYSTEMS
250 x 250 x 350 (mm)  3 SYSTEMS
280 x 500 x 360 (mm)  3 SYSTEM
200 x 200 x 200 (mm)  2 SYSTEMS

250 x 250 x 320 (mm)  6 SYSTEMS
280 x 280 x 360 (mm)  4 SYSTEMS
400 x 400 x 360 (mm)  3 SYSTEM
Ø100 x 100 (mm)        1 SYSTEM

NanoParticleJetting Technology

280 x 500 x 200 (mm)   1 SYSTEM
END TO END SUPPLY CHAIN

END-TO-END VALUE CHAIN IS A BEAM IT SERVICE & TARGET
FROZEN PROCESSES

SCIENTIFIC DEVELOPMENT of PROCESSES and PARAMETERS

POWDER

MACHINE TECHNOLOGY

PROCESS PARAMETERS

PRODUCTION

LABORATORY VERIFICATION

RELIABILITY REPEATABILITY

PQ

PRODUCTION QUALIFICATION

IQ

INSTALLATION QUALIFICATION

OQ

OPERATION QUALIFICATION
Several on-going collaboration with:

- Università di Roma Tor Vergata
- Politecnico di Milano
- INFN
- ESA
- CSM Centre Sviluppo Materiali
- Consiglio Nazionale delle Ricerche
ADDITIVE MANUFACTURING COMPETENCE CENTER

BEAM IT SpA has launched a specialized technology center to support its customer development:

- **PROCESSES & MATERIAL development:**
  - Performing -> Reliable
  - Repeatable -> Affordable
- **SPECIAL PROCESSES** know-how:
  - HIP -> Surface Finishing -> Surface processes
- “Ad-hoc” **MATERIAL CHARACTERIZATION**
- **TECHNOLOGY & KNOW-HOW** transfer
  - Selection of the proper AM technology
  - Selection of powder manufacturer
  - Providing frozen parameters for developed materials
  - Developing processes & parameters for new alloys
  - Specific training on:
    - TECHNICAL STAFF (operators, application engineers)
    - DesignForAdditiveManufacturing METHODS
    - DATA MANAGEMENT & PREPARATION
    - PROCESS & HT engineers
    - POST-PROCESSES operations
  - Feasibility analyses and ad-hoc business case

A.M.C.C. focus on DEVELOPE, EXECUTE and IMPLEMENT new application for additive manufacturing
BEAM IT SpA announced the launch of companies cluster to support the growth of its customer in IGT & Aviation sector.

Answer to the demands of the world’s biggest players in the Aviation and IGT industries to research complete supply solutions of complex components with various Special Processes, such as Additive Manufacturing, Mechanical Machining, Laser and EDM Drilling, Laser Welding, Coatings, Heat Treatments, FIC + Brazing, HIPping.

Produce complex components having as reference a single Company that deals with the whole manufacturing process, with the issue of a single order and delivery of the product completely full finished and ready to be assembled.