FOUNDING SHAREHOLDERS

[Logos of ABB, Atlas Copco, Electrolux, Husqvarna Group, Höganäs, SAAB, Scania, SKF, Stora Enso, Wärtsilä]

FAM

AMEXCI
OUR OFFER

AWARENESS
- Training & Education
- Product screening
- Business case analysis

DEVELOPMENT
- Re-design of products
- Hardware assessment
- Manufacturing trials
- Materials & Parameter dev.

IMPLEMENTATION
- Pilot production
- Development of procedures
- Facility design
ADDITIVE MANUFACTURING FOCUS

- **Powder Bed Fusion**: Uses a thermal source to fuse powder particles at a specific location of the build area to build a solid part.

- **Directed Energy Deposition**: Uses a thermal source to fuse materials by melting them as they are deposited.

- **Material Extrusion**: Prints through a heated nozzle, melting a string of solid thermoplastic materials (filament).

- **Binder Jetting**: Process of depositing a binding agent onto a powder bed to form a part, layer by layer.
END TO END APPROACH

MATERIALS
- Certification, Powder Handling, Powder recycling

DESIGN
- Designing for Additive Manufacturing, Design Tools, Component Life Assessment, Software Simulation

MANUFACTURING
- Qualified Parameters, Process Robustness and Scalability, Operator Certification, Post Processing

VERIFICATION
- Computed Tomography, Metallurgical Evaluation, Mechanical Testing
THE AMEXCI TEAM

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DESIGN ENGINEER
TOP VIEW LAB
INSIDE THE LAB
HITAB FACILITIES
IN-HOUSE CAPACITY

**METAL**
- 2 x EOS M290
- ACONITY MIDI

**POLYMER**
- EOS P396
- Markforged X7
IN-HOUSE CAPACITY

2 x EOS M290

SPECIFICATION

The Benchmark for the industrial 3D printing of High-Quality Metal Parts - with Enhanced Quality Management Features

Technical data EOS M 290

Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inconel 718</td>
<td>Ni-base</td>
</tr>
<tr>
<td>Hastelloy X</td>
<td>Ni-base</td>
</tr>
<tr>
<td>IN625</td>
<td>Ni-base</td>
</tr>
<tr>
<td>Ti6-4</td>
<td>Ti-base</td>
</tr>
<tr>
<td>AlSi10Mg</td>
<td>Al-base</td>
</tr>
<tr>
<td>SS 316L, 17-4PH, CX, GP1, (Stainless Steel)</td>
<td>Fe-base</td>
</tr>
<tr>
<td>MS1 (Maraging Steel)</td>
<td>Fe-base</td>
</tr>
</tbody>
</table>

Building volume

250 mm x 250 mm x 325 mm (9.85 x 9.85 x 12.8 in)

Comprehensive quality assurance

A comprehensive monitoring suite enables to conduct a real-time quality assurance of all production and quality relevant data. EOSTATE is composed of five different monitoring systems – System, Laser, PowderBed, MeltPool, and Exposure OT (optical tomography).
IN-HOUSE CAPACITY

ACONITY MIDI

SPECIFICATION

Equipped with an optional second process chamber, this system allows parallelizing setup times while the main system is still producing. Additionally, process monitoring or high-temperature preheating of up to 1200°C is also available for this system.

Technical specifications ACONITY MIDI:

<table>
<thead>
<tr>
<th>Materials</th>
<th>Metal powders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building volume</td>
<td>Ø 170 mm x H 200 mm</td>
</tr>
<tr>
<td>Preheating temp/build space</td>
<td></td>
</tr>
<tr>
<td>500°C / Ø 170 mm x H 150 mm</td>
<td></td>
</tr>
<tr>
<td>800°C / Ø 100 mm x H 150 mm</td>
<td></td>
</tr>
<tr>
<td>1200°C / Ø 70 mm x H 150 mm</td>
<td></td>
</tr>
</tbody>
</table>

As for all ACONITY systems, the ACONITY MIDI is equipped with the AconitySTUDIO control software which allows access to all relevant process parameters and machine components.
EOS P 396 is a proven system with good reliability and performance. Used in commercial applications by companies like BMW (Tailor made interior) or Chanel (Mascara brushes) at AMEXCI we use it for prototyping and final parts.

Materials
Polymer PA2200
(Others available on request)

Build Volume
340 mm x 340 mm x 600 mm (13.4 x 13.4 x 26.6 in)
IN-HOUSE CAPACITY

MARKFORGED X7

SPECIFICATION

MARKFORGED X7 is a FDM system combining nylon and fibre (chopped and continuous) to create high strength polymer based components. Suitable for fixtures, tools and engineering applications. Continuous Carbon Fibre parts stand up to the toughest applications. Stronger than 6061 Aluminium and 40% lighter — these parts are perfect for manufacturing equipment, jaws, tooling, and end-use parts.

Materials
Onyx (Chopped Carbon Fibre)
Continuous fibre reinforcement (Carbon, Glass & Kevlar)

Build Volume
330 mm x 270 mm x 200 mm