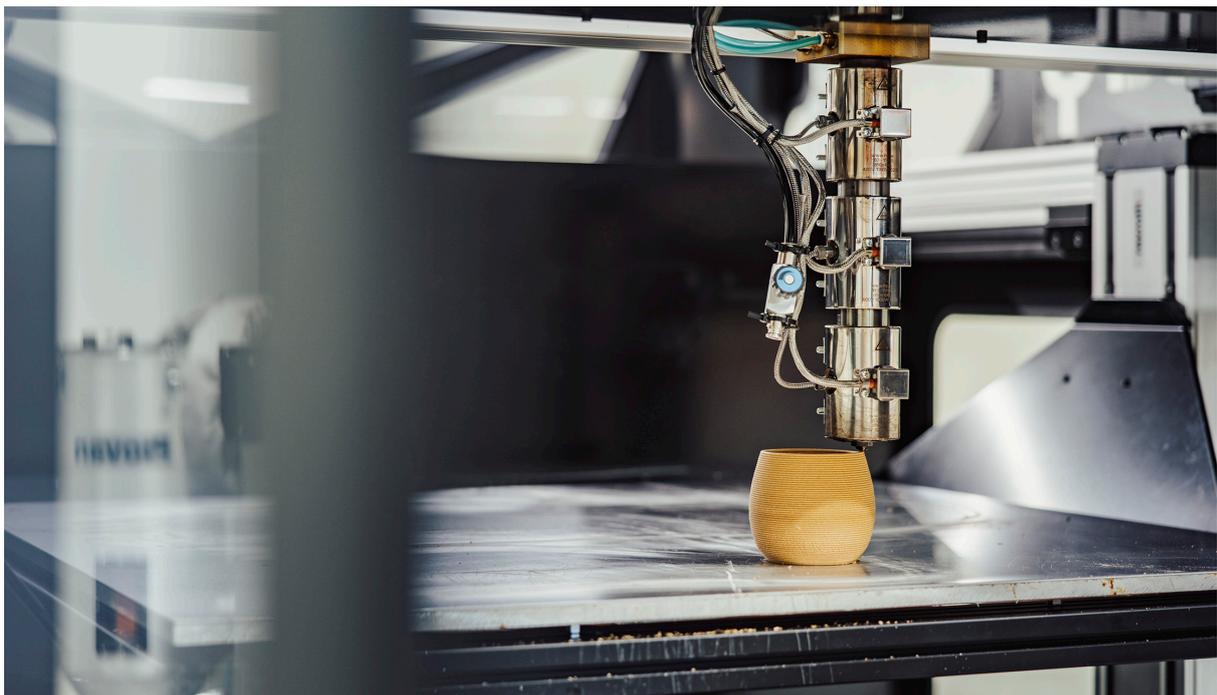


Understand

# The opportunities of large-scale AM.

**L**arge size 3D printing, is a process of creating large-scale objects using a 3D printer. This type of printing is becoming increasingly popular in a variety of industries, including construction, automotive, and aerospace.



*3D-manufacturing pipelines offer a broad spectrum of filaments and open-source materials to guarantee a minimal environmental footprint.*

One of the key advantages of large size 3D printing is the ability to create large, complex objects that would be difficult or impossible to manufacture using traditional methods. For example, in the construction industry, large size 3D printers can be used to create prefabricated building components or even

entire buildings. In the aerospace industry, large size 3D printers can be used to create large, lightweight aircraft parts that can improve fuel efficiency.

## Customized objects

Another advantage of large size 3D printing is the ability to create customized objects. Traditional manufacturing methods often require expensive molds or tooling, which can limit the ability to create unique designs. With large size 3D printing, it is possible to create one-of-a-kind objects without the need for molds or tooling.

Large size 3D printing is a rapidly evolving technology that has the potential to revolutionize many industries. With advances in 3D printing technology and the development of more affordable and efficient large format 3D printers, it is likely that we will see more and more large objects being created using this technology in the future.

The Magnum system leverages a sophisticated cloud-based operating platform, enabling a flexible, agile feature set. Several types of functionality, including the patented heated vacuum table and proprietary slicing technology, bring breakthrough features to the platform.

MAGNUM also redefines turnaround times. The time required to create large objects has typically been one of the hurdles of getting into XL printing; with MAGNUM, it is now possible to generate a 2.16m<sup>3</sup> print volume at 1-8 kg per hour. Traditional manufacturing methods can produce large objects on short notice., but MAGNUM is rapidly shortening the gap between the future of AM and the conventional platforms.

## Go beyond the assembly line

Large-format 3D printing, can be used to produce large objects like furniture, large size prototypes, props for media production and non-traditional engineering parts. Customized designs that may be difficult to achieve with traditional manufacturing methods are prime contenders for large-size printing process. Bigger products are achieved by building up many layers of material to create a finished product. This printing technique makes it possible to minimize the environmental impact and make the technology more sustainable.

## Understand /01

3D printing has the potential to revolutionize manufacturing by using eco-friendly materials, reducing waste, and taking a holistic approach to the entire life cycle of a 3D-printed object.

In conclusion, large-format manufacturing is a powerful model that seeks to minimize the environmental impact of production while ensuring cost-efficient, high-quality manufacturing pipelines. Now is truly the time to move beyond the assembly.

## Turnkey system

To make MAGNUM available and feasible to broad markets, Industry has designed its powerful platform to come as close as possible to a turnkey system. The user operates advanced functionality from a very simple UX, requiring very little specialist knowledge.

The MAGNUM system is a complete package of equipment, software, and services that is ready to use once installed. The turnkey approach is beneficial as it saves time, reduces the risk of errors, and can lower costs associated with managing multiple vendors. Once MAGNUM is set up and operational, The Industry provides a single point of contact for all aspects of the project.



*In conclusion, large-format manufacturing is a powerful model that seeks to minimize the environmental impact of production.*