

3D printing technology

It is a Additive Manufacturing process where a 3D printer creates three-dimensional objects by depositing materials layer by layer in accordance to the object's 3D digital model.

Profile

Tvasta Manufacturing Solutions Pvt. Ltd. is an advanced 3D Printing company initiated by 3 young engineers from one of India's most premium engineering Institute, IIT Madras. We began with actualizing the concept of Concrete 3D Printing on an R&D basis, post which we realised the potential it carries. Our proprietary, large scale Concrete 3D Printing system, consisting of the 3D printer, the mix design, compatible software and the printing strategy, has enabled us to work towards automating the construction sector till a great extent.

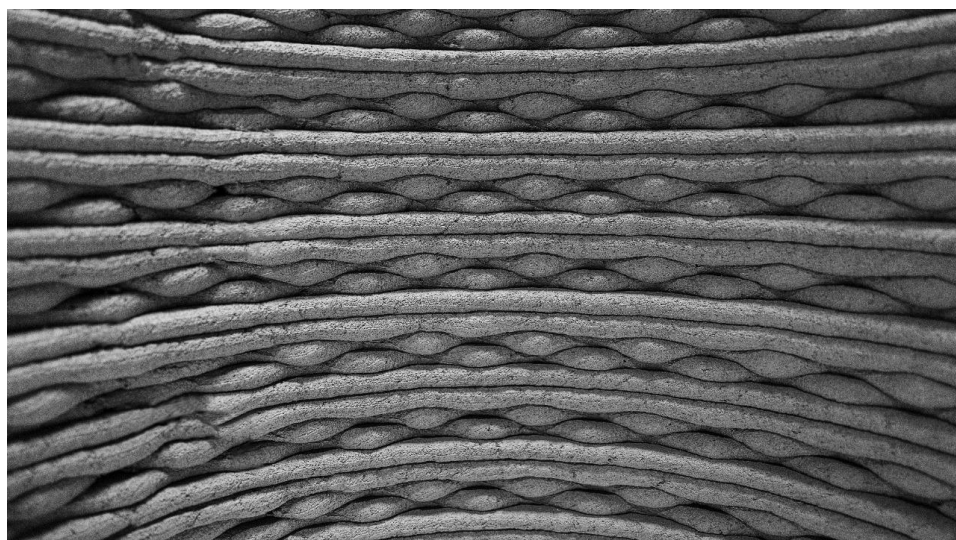
Critical aspects of 3D printing technology

- Machine - 3D printer
- Material - The compatible material
- Software - Interactive application
- Printing Strategy - Appropriate Printing Plan



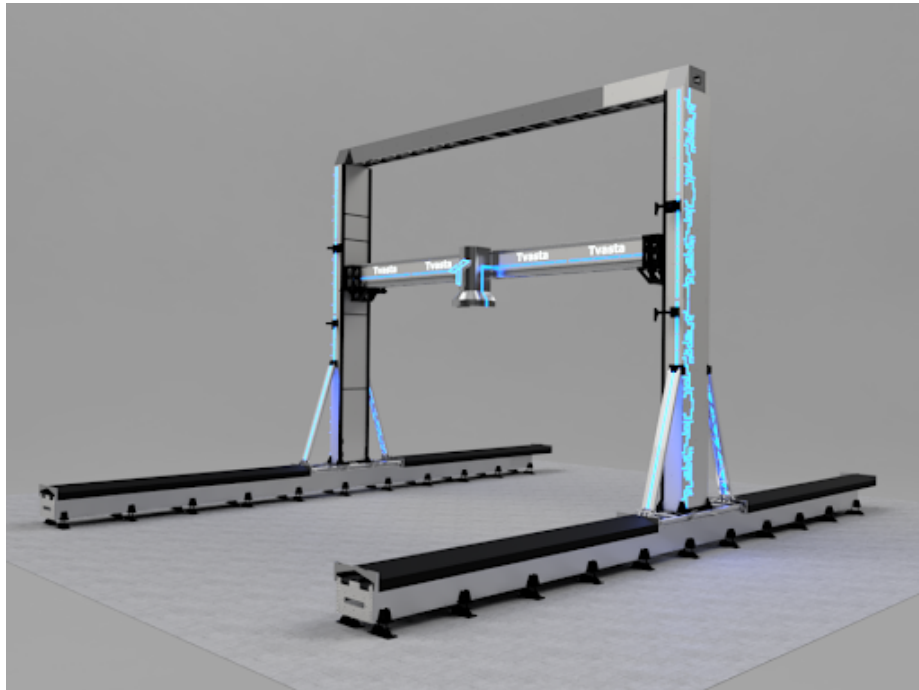
Advantages of 3D printing technology

- Less waste
- Nigligible dependency on labor
- Capaibility of Mass customization
- Less time consuming
- More sustainable method
- Less cement consumption
- More thermal insulation



Current Printers:

- Gantry system



- Robotic Arm system

