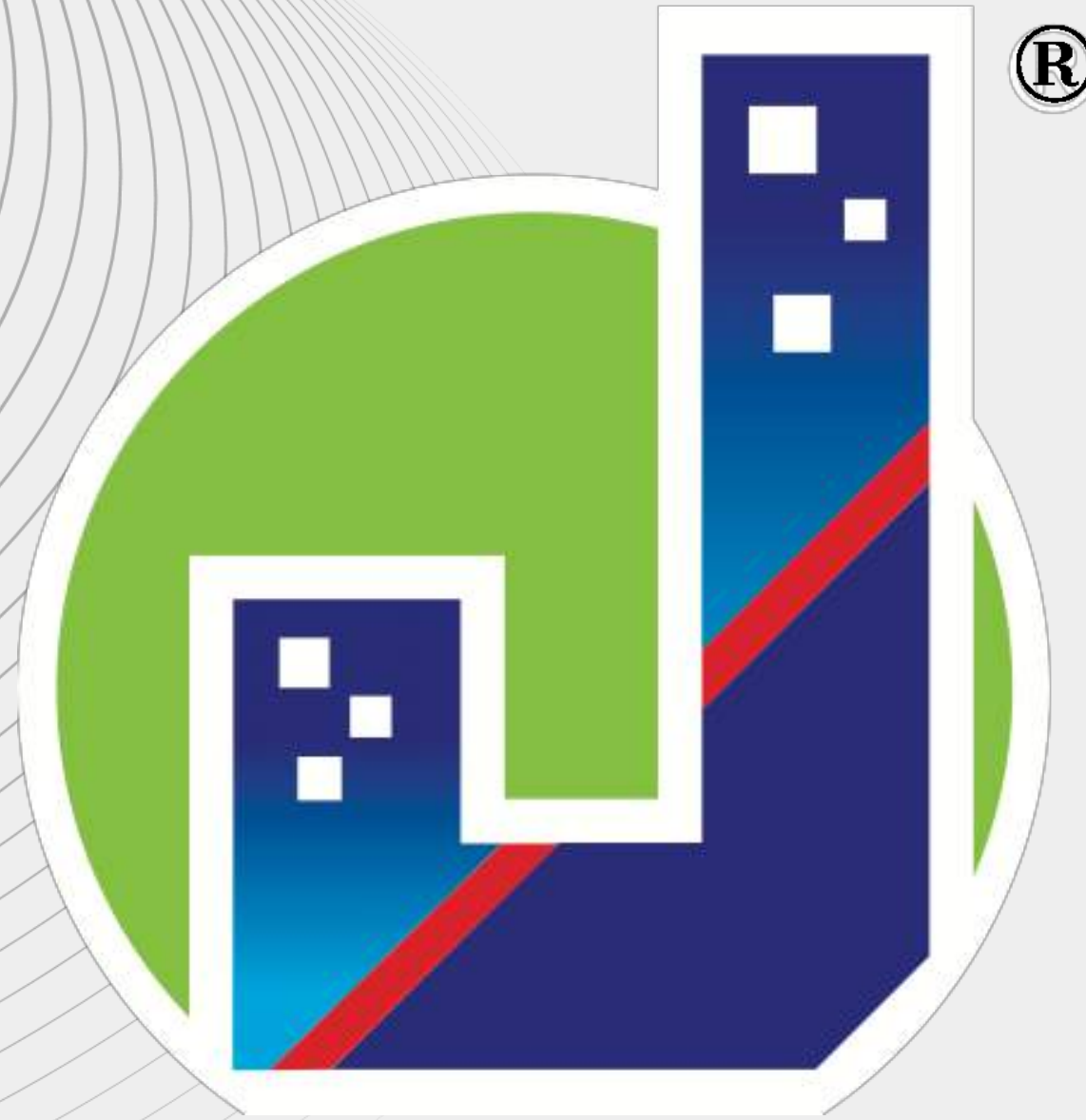




JLFC PTE LTD

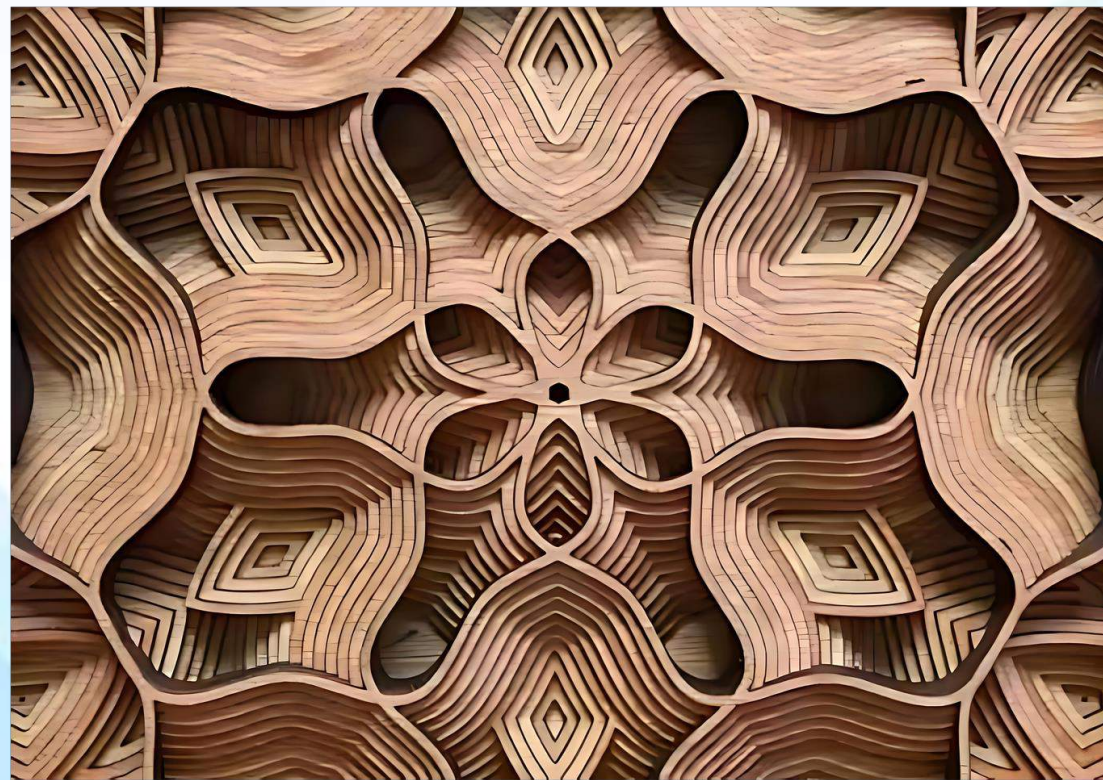
Leading in Future Connections



3-D PRINTING MONUMENTS



3-D PRINTING PRECISION





21/07/2020

LONGEST 3D PRINTED BRIDGE

EXTRUDED 3D PRINTING



'ZHAO ZHOU'

Bridge

Net Span 20m



'ZHAO ZHOU'

Bridge

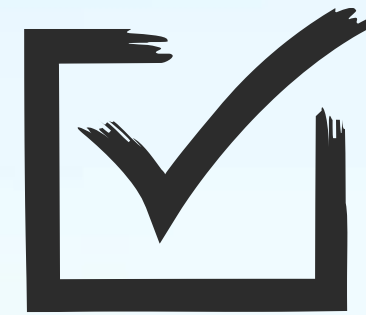
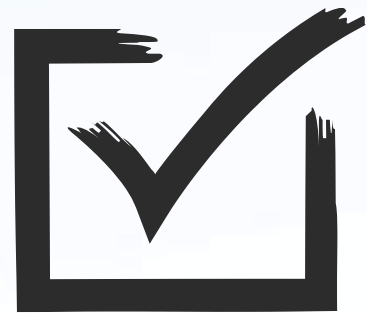
Formwork Printing



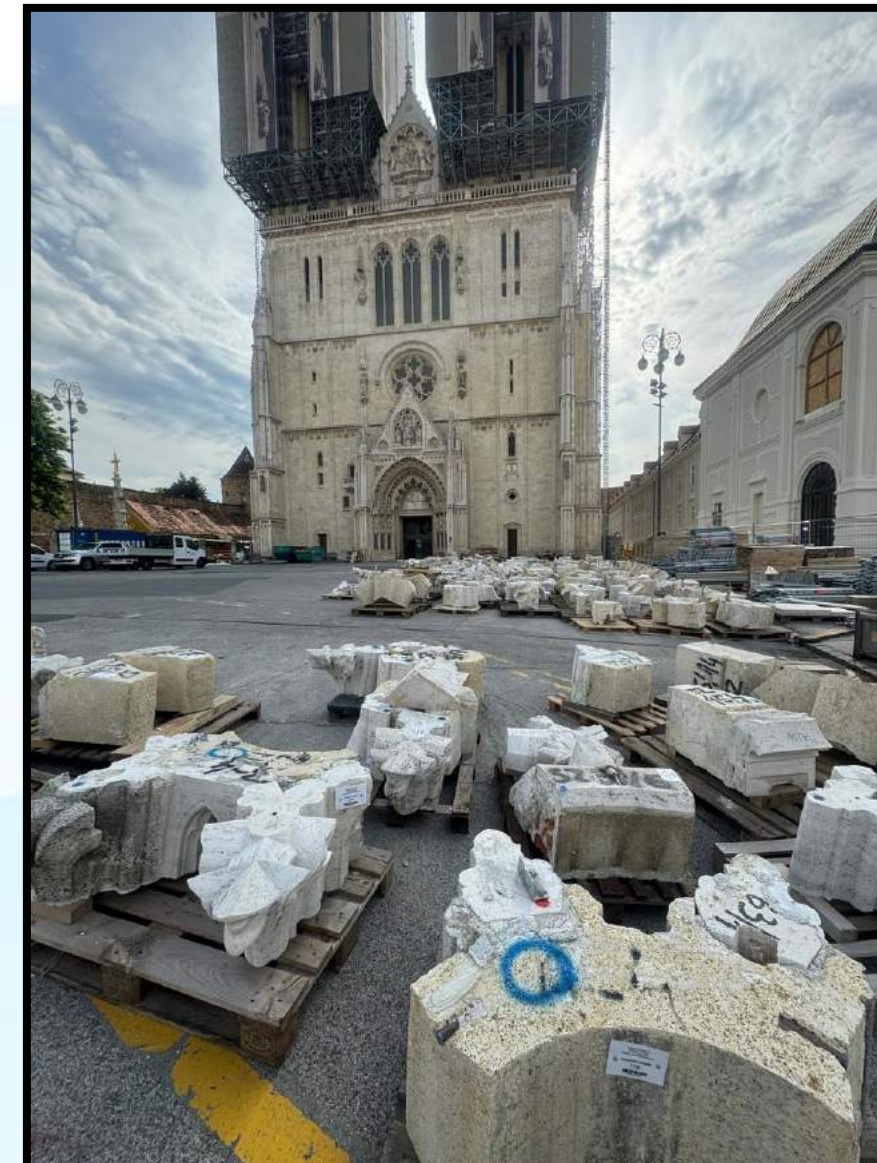
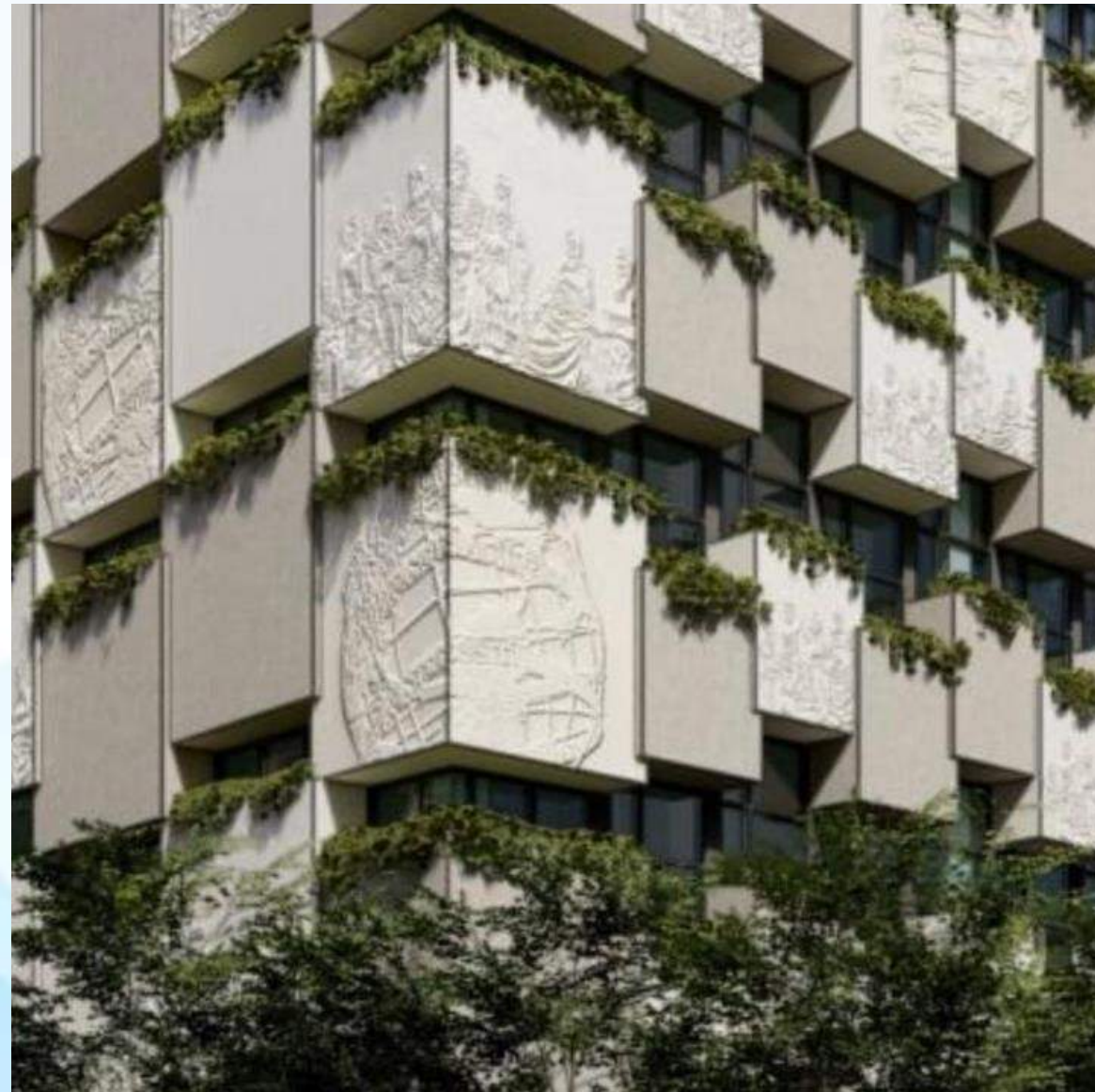
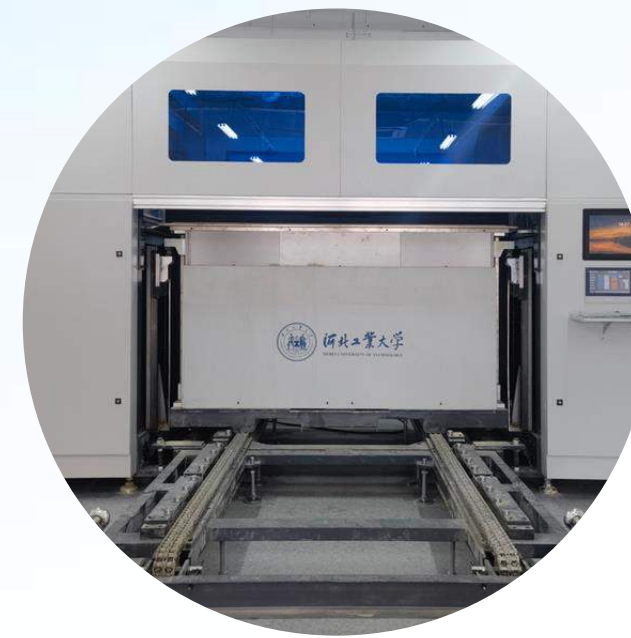
Final Product



How is it built?



What about these?



Mortar bed 3D printing



Printing

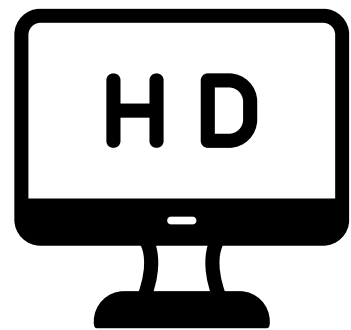
Starts by laying the **cementitious** powder base, followed by layering of binding agents, which is repeated to construct the model



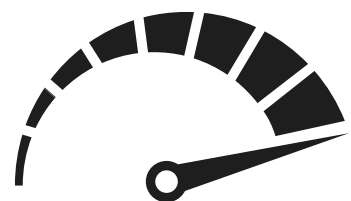
Layering

Water-binding agents are applied layer by layer to construct the model, resulting in high strength models and structures

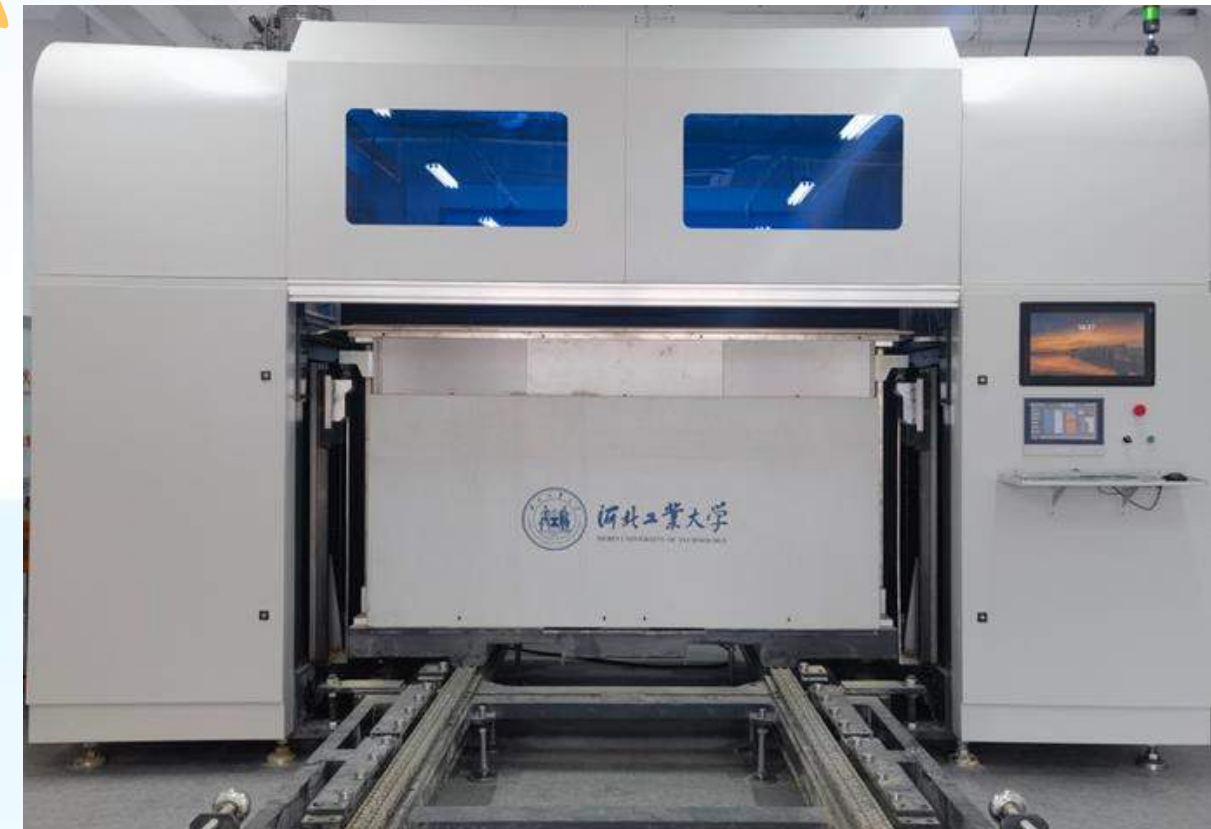
Innovations



High-Definition slicing algorithms achieving modeling to 0.03 mm for intricate and detailed 3D prints



High-Speed Online Analysis for rapid processing and analysis of large-volume lattice data



Third Generation
BJ2000

Printing Size	2000x1200x400 mm ³
Accuracy	0.1 mm
Layer Thickness	0.1~0.3 mm
Printing Speed	50 L/h
Strength	>30 Mpa

Name	Aperture	Error
Design Value	1.50mm	0%
1	1.44mm	-4%
2	1.59mm	6%
3	1.42mm	-5.3%

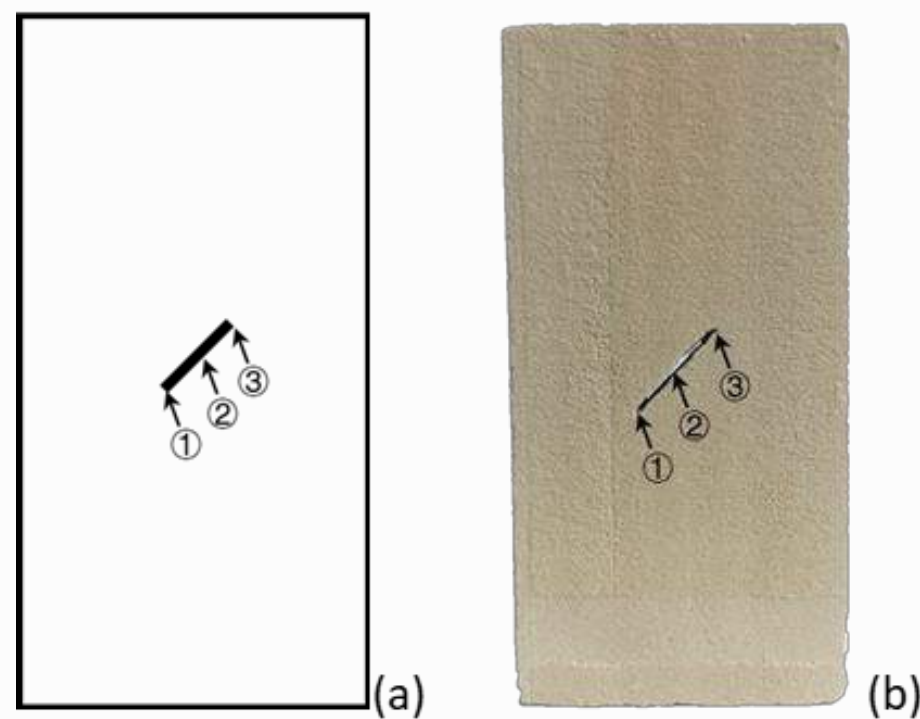
HIGH PRINTING PERFORMANCE

The cementitious powder features:

- Excellent Flowability

The water-based binder features:

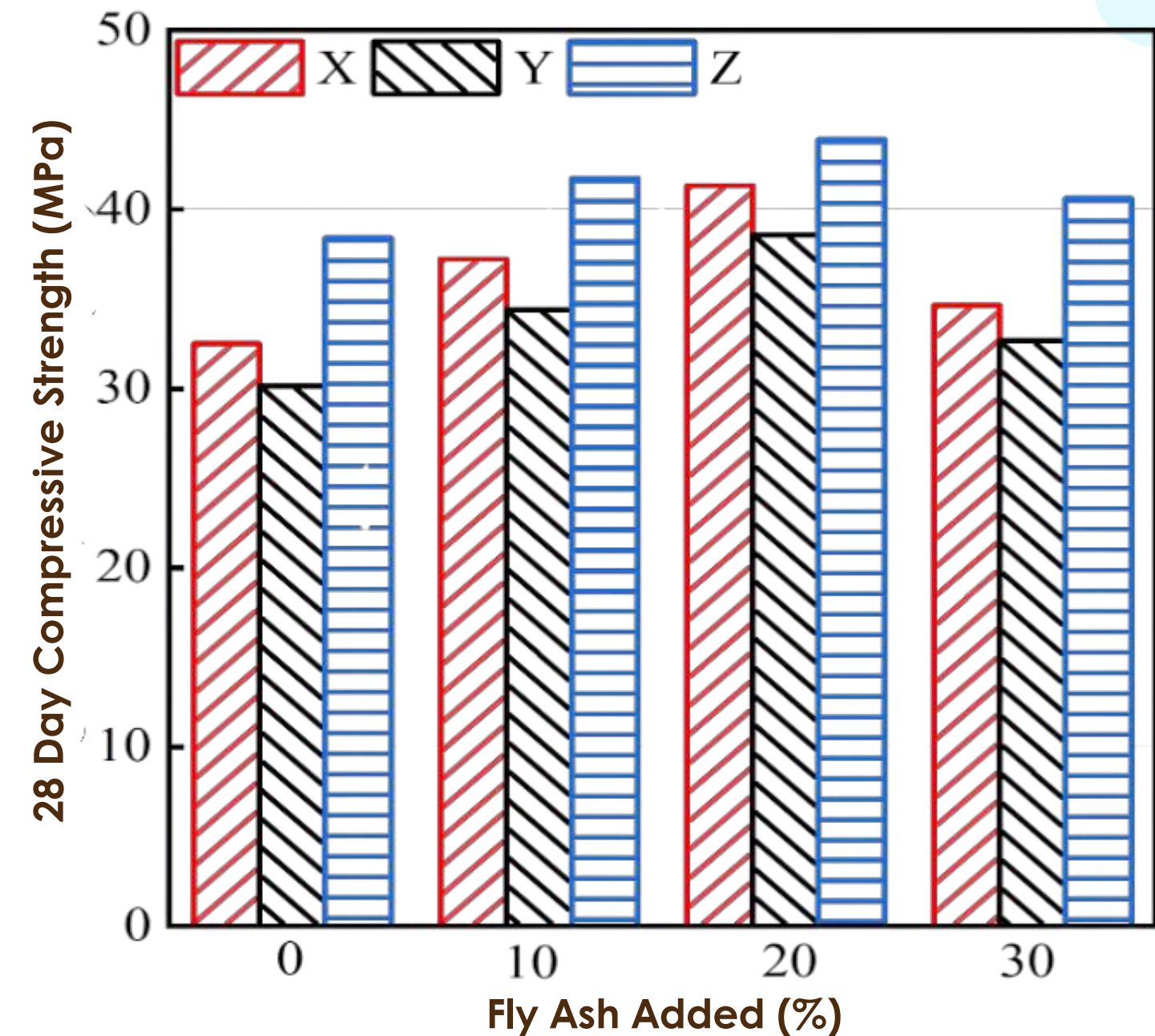
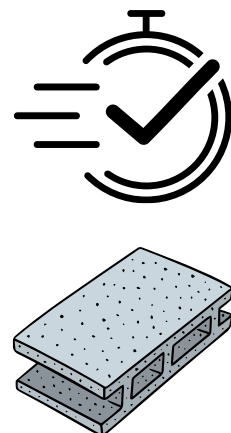
- Stable Viscosity
- Spraying Performance
- High Precision



HIGH MECHANICAL STRENGTH

The cementitious powder features :

- Fast hardening
- High Strength
30 MPa (Compression)
8 MPa (Bending)
- Resistant to aging



Vision into Reality



Combining 3D scanning, reconstruction, and refinement technologies facilitates the swift creation of precise 3D models based on existing objects.

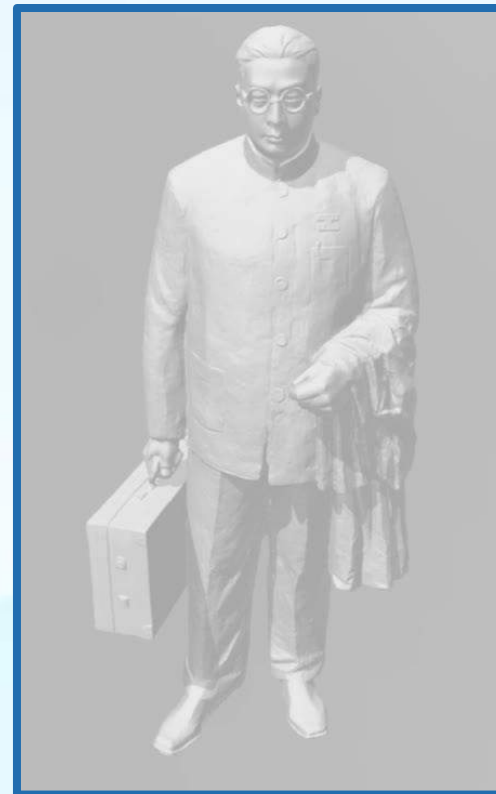
1

Scanning



2

3D Digital Models

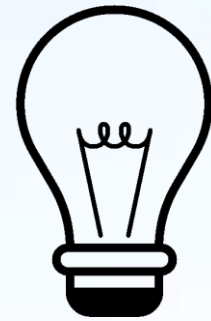


3

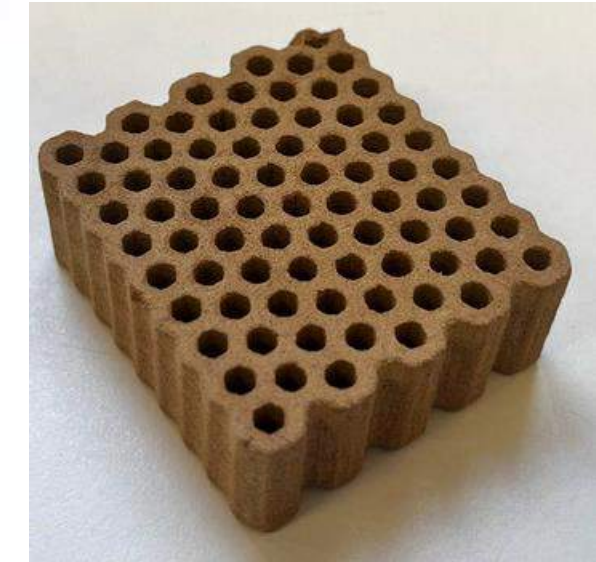
3D Sculptures



Ideas into Reality



Integrating digital modeling technology to realize diverse design concepts in 3D



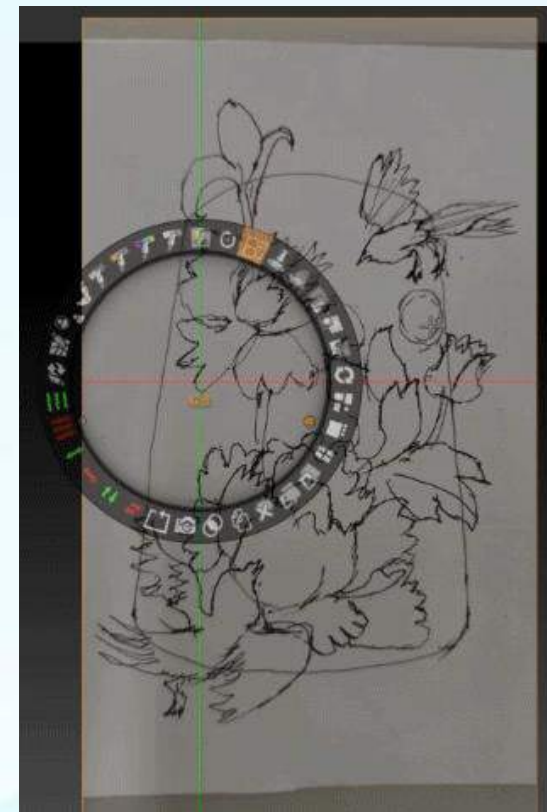
1

Sketching



2

Model Construction



3

Layer Printing



4

Post-Processing



Dreams into Reality



Integrating Artificial Intelligence for processing and implementing diverse concepts in 3D

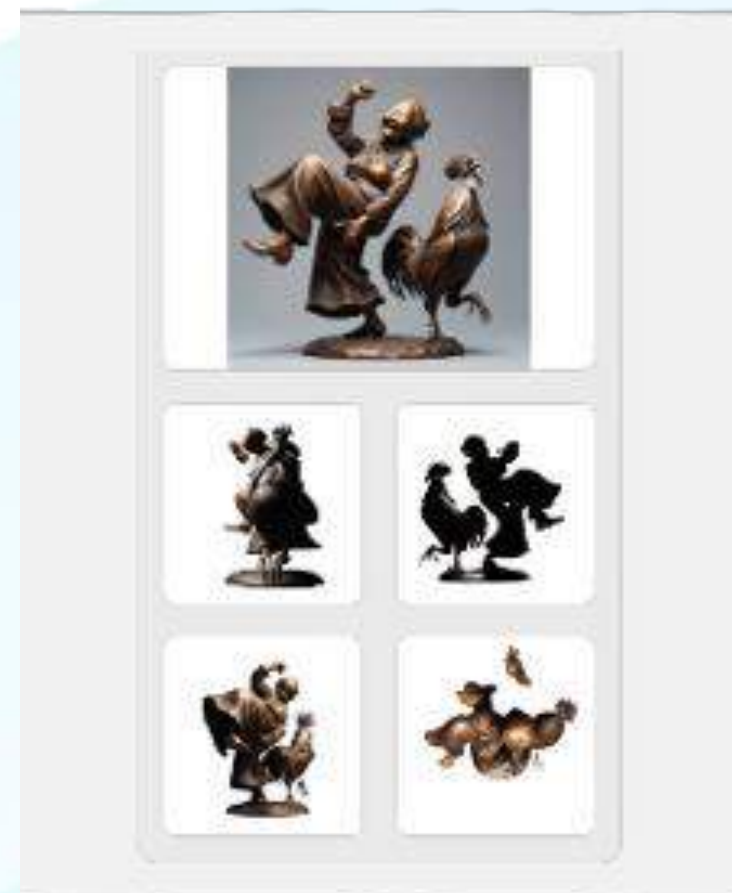
1

AI-Generated
2D Sketches



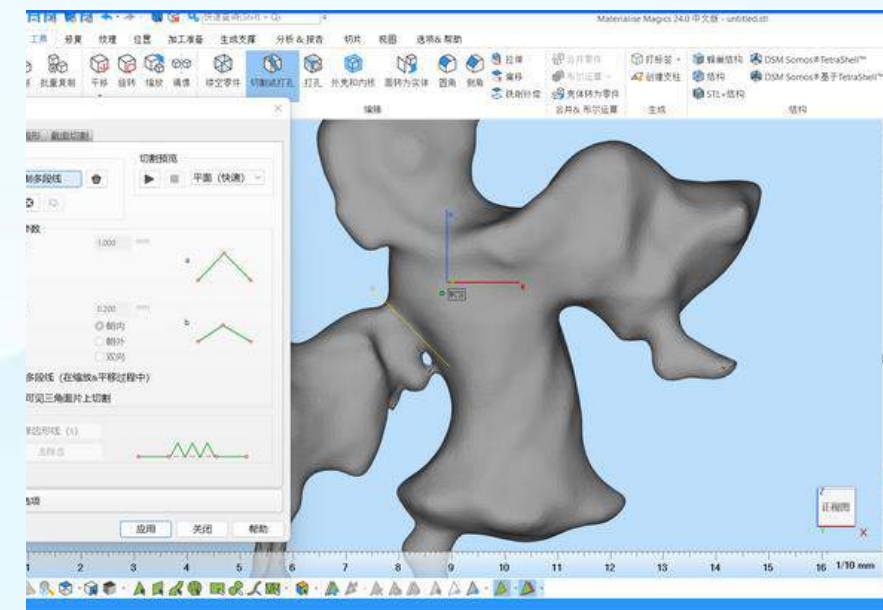
2

Initial 3D Model



3

Refinement of Model



4

Final Peoduct



Sculpture Crafts



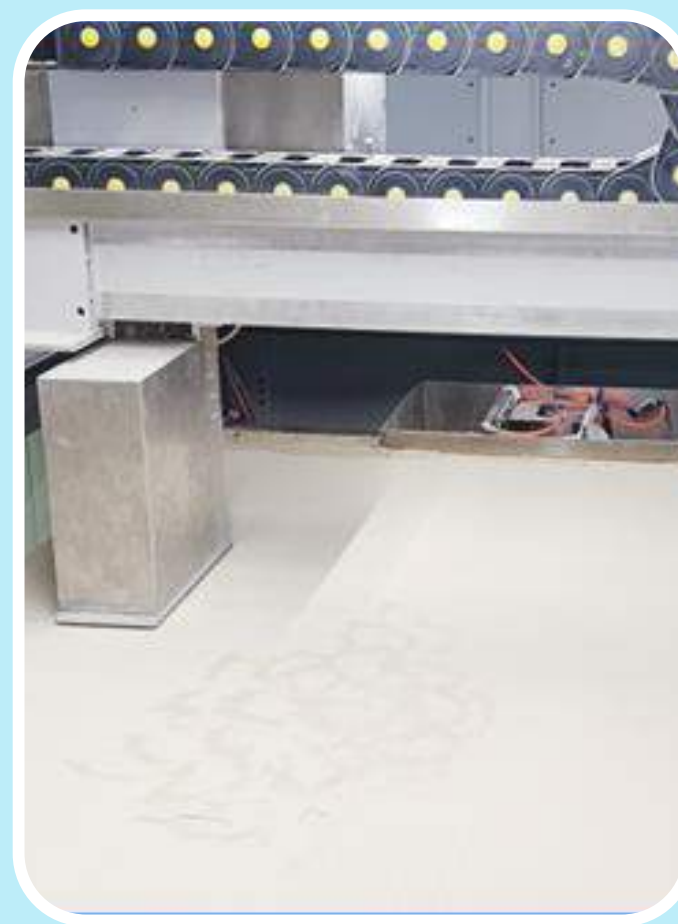
AI Designed Models



Building Restoration



3D Scanning



Layer Printing



Post Processing



Final Product

WHY

CHOOSE

US?

WHY
CHOOSE
US?

How do we fare?



Company	Powder	Binder	Speed	Accuracy	Compressive Strength	Size(mm ³)
 3D Systems	Plaster	Water	1ℓ/H	0.1 mm	2 - 2.5 MPa	508 x 381 x 229
 EX-One	Sand	Resin	108ℓ/H	5.0 mm	2 - 6 MPa	1800 x 1000 x 700
 Voxeljet	Sand	Resin	136ℓ/H	0.5 mm	4 - 6 MPa	4000 x 2000 x 1000
 FHZL	Sand	Resin	165ℓ/H	0.5 mm	0.8 - 2 MPa	2200 x 1000 x 800
 Our partner	Cement	Water	50ℓ/H	0.1 mm	> 30 MPa	2000 x 1200 x 400



JLFC PTE LTD

CONTACT US TODAY



+65-6268-5808



info@j-group.com.sg

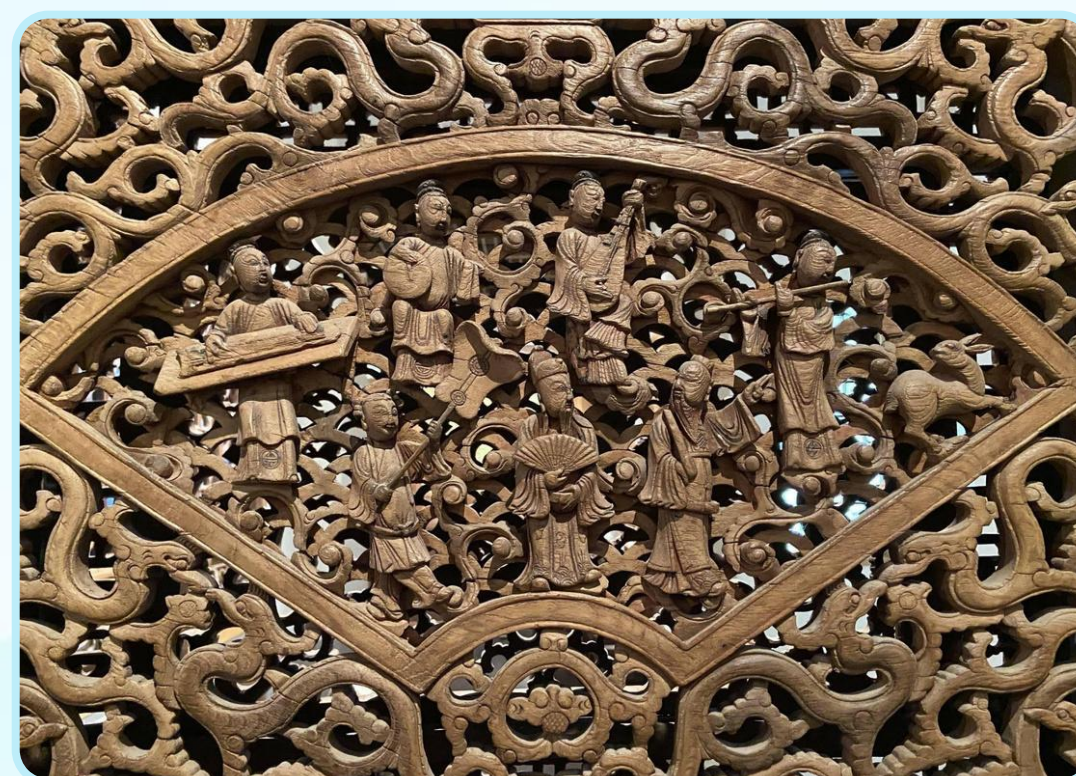


www.j-group.com.sg

Cementitious Powder Bed 3D Printing



**VISIT OUR
WEBSITE :**



www.j-group.com.sg

[Link to download brochure](#)