BIG QUBE

THINK BIGGER



NFIL3D

INDUSTRIAL FDM 3D PRINTER.

01 — ABOUT US

DRIVEN BY EXPERIENCE.
BUILT FOR INNOVATION.

N-Fil3D was founded by individuals with more than 37 years of experience in manufacturing engineering plastic compounds and biopolymers, serving clients such as IFB, Crompton, Bajaj, Surya, Godrej and Symphony.

Your one-stop 3D printing solution

We manufacture a wide range of high-quality 3D printers and 3D filaments, and supply 3D pens, 3D resins, 3D scanners, spares and accessories.

Quality at every stage

Our facility spans 4 lakh square feet and includes an in-house laboratory that tests the thermal, mechanical and rheological properties of each batch of 3D filament. We also run a range of 3D printers, including our own, to assess filament quality.

An Indian startup registered with the Government of India under DIPP (recognition number DIPP22873), certified to CE and ISO 9001:2015 standards.

37+
YEARS OF EXPERIENCE

4 lakh sq. ft.
MANUFACTURING FACILITY

In-house
TESTING & RESEARCH



02 — BIG QUBE

REAL POSSIBILITIES.

From concept to production at scale.

01

Rapid prototyping

Full-size concepts printed in one piece.

02

Low-volume production

Short runs without waiting for tooling.

03

Industrial applications

Jigs, fixtures and large functional parts.



03 — ALL VIEWS

SEEN FROM EVERY SIDE.



FRONT



SIDE



REAR

01

Fully enclosed structure

A closed industrial body around the entire build chamber.

02

Quad Gantry Leveling

Motion system with Quad Gantry Leveling.

03

500 × 500 × 500 mm

Build volume for large parts printed in one piece.

ENGINEERED FOR PRECISION.

HOTEND

Phaetus Rapido X

with Liber High-Flow Module

360 °C

MAX. HOTEND TEMPERATURE

100 mm³/s

HIGH FLOW

0.4 0.6 0.8 1.0 1.2 mm

SUPPORTED NOZZLES



PRECISION. LAYER BY LAYER.

Complex geometry.
Distinctive form.
Layer-by-layer production.

05 — FEATURES

SIX FEATURES. ONE PLATFORM.

01

QUAD GANTRY LEVELING



Motion system with Quad Gantry Leveling.

02

FUTURISTIC DESIGN



A fully enclosed black body with glass front doors and a side window.

03

LAN / WI-FI



Control from any device on your network, over LAN or Wi-Fi.

04

HIGH SPEED



Printing speed up to 500 mm/s, travel speed up to 1000 mm/s.

05

BIG. LITERALLY.



A full 500 × 500 × 500 mm for large parts printed in one piece.

06

1-YEAR WARRANTY



Every Big Qube comes with a one-year warranty.

06 — TECHNOLOGY & PERFORMANCE

PERFORMANCE IN NUMBERS.

500 mm/s

PRINTING SPEED

1000 mm/s

TRAVEL SPEED

360 °C

MAX. HOTEND TEMPERATURE

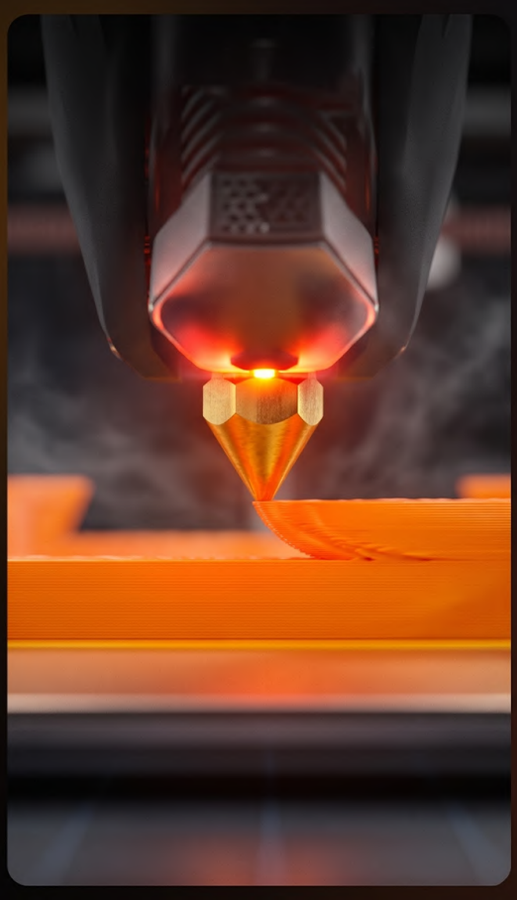
120 °C

MAX. HEATED BED TEMPERATURE

CONTROL PLATFORM
Klipper-based

DISPLAY
4.3-inch HDMI

CONNECTIVITY
LAN / Wi-Fi







07 — APPLICATIONS & MATERIALS

SIX MATERIALS. ONE PLATFORM.

PLA
POLYLACTIC ACID

PETG
POLYETHYLENE TEREPHTHALATE GLYCOL

ABS
ACRYLONITRILE BUTADIENE STYRENE

TPU
THERMOPLASTIC POLYURETHANE

ASA
ACRYLONITRILE STYRENE ACRYLATE

PP
POLYPROPYLENE



TYPICAL LARGE-FORMAT WORK

01 **Full-scale prototypes**

02 **Jigs, fixtures and tooling aids**

03 **Large functional parts**

04 **Patterns and formers**

05 **Furniture, lighting and display pieces**



Architectural model



Functional gear



Art piece



Prototype part



Medical print

08 — TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS.



FRONT



SIDE



REAR

BUILD

Printer type	**FDM, Klipper-based**
Build volume	**500 × 500 × 500 mm**
Enclosure	**Fully enclosed**

MOTION

Motion system	**Quad Gantry Leveling**
Printing speed	**500 mm/s**
Travel speed	**1000 mm/s**

EXTRUSION & THERMAL

Supported nozzles	**0.4, 0.6, 0.8, 1.0, 1.2 mm**
Max. hotend temperature	**360 °C**
Max. heated bed temperature	**120 °C**
Supported materials	**PLA, PETG, ABS, TPU, ASA, PP**

DISPLAY & CONNECTIVITY

Display	**4.3-inch HDMI**
Connectivity	**LAN / Wi-Fi**

Specifications are subject to change without notice.

THE FUTURE
TAKES SHAPE



NFIL3D.COM