# ICARUS

HIGH-FLOW 3D PRINTING SYSTEMS

The ICARUS 3D Printer, by Filament Innovations, was created for High-Flow 3D Printing.

High-Flow 3D Printing means larger objects can be printed in a fraction of the time.

Turn-key Pellet extrusion to the masses with full integration of the Dyze Design Pulsar and Venturi feeding systems, at 3-5lbs per hour flow rate.

A filament option, using the Typhoon FDM extrusion system is available using the new air-cooled version from Dyze Design.

What else makes the ICARUS stand out from the other? First Layer Laser Scanning, USA Made Servo Motors, Enclosed Ballscrews, Tuned Profiles.
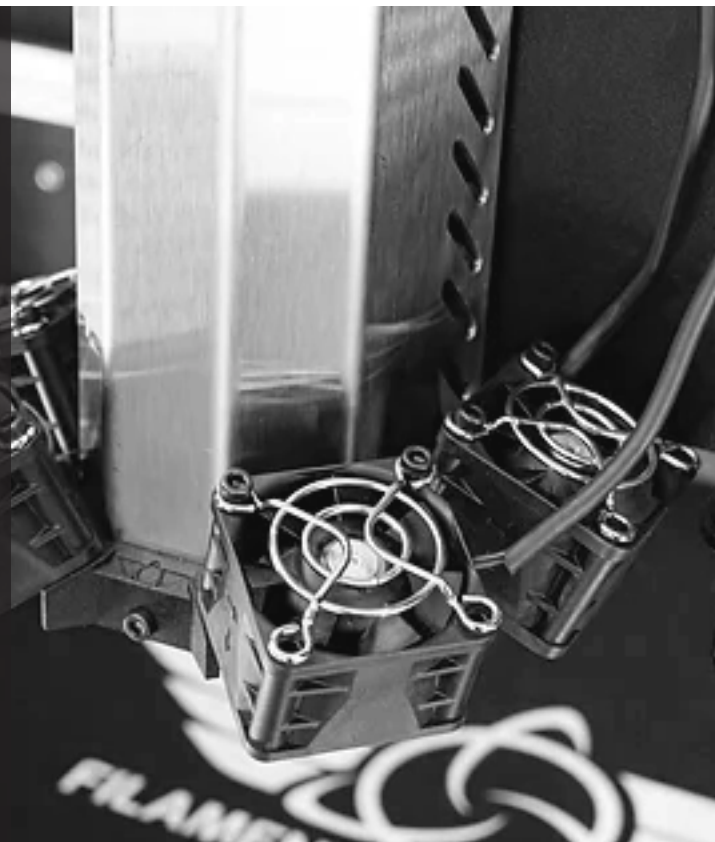
SPECS

MACHINE SIZE (W,D,H): 60"x34"x75"

WEIGHT: ~ 500lbs

PRINT AREA (PELLET): 450x450x945mm

PRINT AREA (FILAMENT): 450x450x1000mm

MOTORS: USA made Servo Motors

MOTION: TBI enclosed precision ballscrews

EXTRUSION: Pulsar (FGF) or Typhoon (FDM)

PRINT MONITORING: Orthus - Jam & Runout

PRINT SURFACES: PEI, Buildtalk, Steel, Carbon Fiber

PRINT PLATE: 3/8in MIC 6 Aluminum

BUILD PLATE: 3/8" MIC-6

MAX PRINT TEMPERATURE: 450C

MAX BED TEMPERATURE: 120C

TEMPERATURE PROBE(S): PT100

BED LEVELING: Four Z Axis Tilt & Mesh

LASER SCANNING: First Layer Scan

ELECTRONICS: Duet 3 Ecosystem

MACHINE POWER: 110VAC or 220VAC

TOUCHSCREEN: 7" & 15"
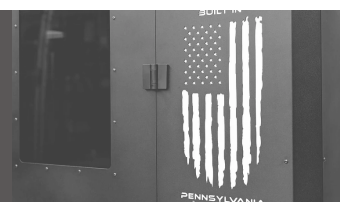
CONNECTIVITY: WIFI, Ethernet, USB

WATER-COOLING: Pellet Only

SLICER: Simplify 3D

DRYER CAPACITY: 25kg

ONE PRICE, ONE ECOSYSTEM. BUILT IN THE USA.

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ARES
COMPLETE PELLET 3D PRINTING SYSTEMS

The ARES 3D Printer, by Filament Innovations, was created to allow everyone to have access to a complete pellet extrusion system.

Purchase price includes:
ARES Printer
25kg pellet dryer
A copy of the ODIN slicer

ODIN was developed by FI to make slicing for pellet extrusion simpler and easier.

Because the price of pellets is roughly 50% of the price of filament, and has an output rate of 3-5lbs per hour, both material costs and print time decrease.

SPECS | FACILITY REQUIREMENTS: 100PSI compressed air for the **ARES** and the **Pellet Dryer** each.

MACHINE SIZE (W,D,H): 71"x35"x76"

WEIGHT: ~ 650lbs

PRINT AREA : 850x450x925mm

MOTORS: Leadshine Closed-Loop

MOTION: Enclosed precision ballscrews

EXTRUSION: DYZE Design Pulsar (FGF)

PELLET FEEDING: Pneumatic Ventury System

PRINT SURFACES: PEI, Buildtalk, Spring Steel, Carbon Fiber, 610

BUILD PLATE: 3/8" MIC-6 Aluminum

MAX PRINT TEMPERATURE: 450C

MAX BED TEMPERATURE: 120C

BED LEVELING: Four Z Axis Tilt & Mesh

ELECTRONICS: Duet 3 Ecosystem

MACHINE POWER: 110VAC or 20AMP

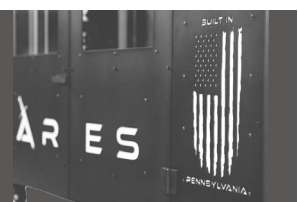**TOUCHSCREEN:** 7" & 15"

CONNECTIVITY: WIFI, Ethernet, USB

WATER-COOLING: On-Board S&A CW-3000

DRYER POWER: 110VAC, 15 AMP
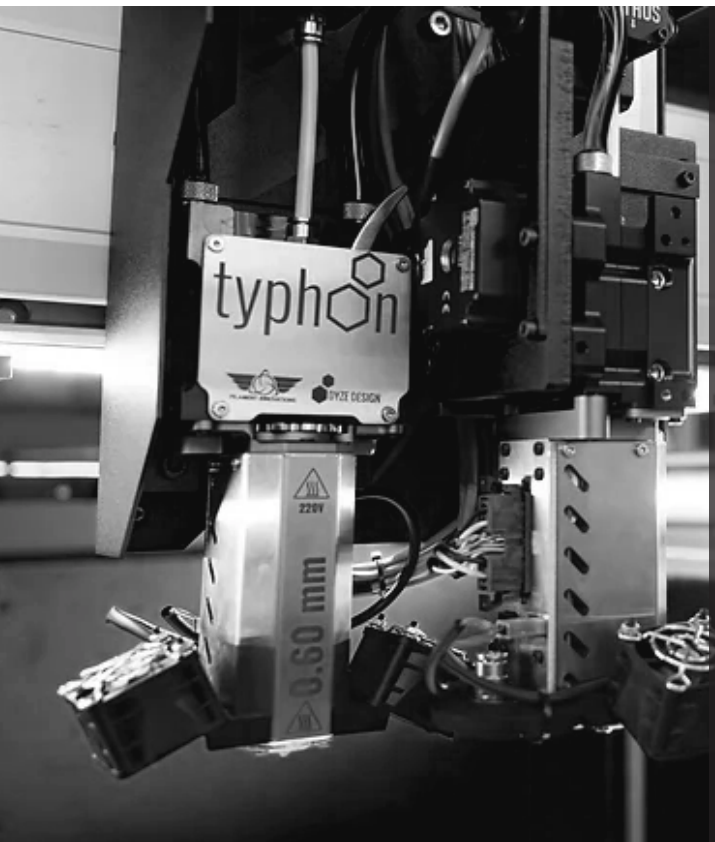
DRYER CAPACITY: 25kg

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POSEIDON
CUSTOMIZED 3D PRINTING SYSTEMS

The POSEIDON 3D Printer, by Filament Innovations, was designed to be a hybrid platform, allowing for users to do FGF and FDM 3D printing in one machine.

This package offers:
Over a 1M3 build area
Pellet Extrusion
High-flow filament extrusion
25kg pellet dryer
ODIN slicing software

Customization is key at FI, and the extrusion gantry can be customized to the user's needs. It can print in dual-filament extrusion, and pellet only. The POSEIDON can adapt to the needs of it's user.

SPECS | FACILITY REQUIREMENTS: 100PSI compressed air for the POSEIDON and the Pellet Dryer each.

MACHINE SIZE (W,D,H): 92"x70"x88"

WEIGHT: ~ 2,000lbs

PRINT AREA (PELLET): 1060x1080x1050mm

X&Y MOTORS: Teknic Servos

MOTION: High-Speed Belt System (max 500mm/s)

EXTRUSION: Pellet & High-Flow Filament

PELLET FEEDING: Pneumatic Ventury System

PRINT SURFACES: PEI, Buildtalk, Steel

PRINT PLATE: Magnetic Spring Steel

BUILD PLATE: 3/8" MIC-6

MAX PRINT TEMPERATURE: 450C

MAX BED TEMPERATURE:120C

BED LEVELING: Four Z Axis Tilt & Mesh

ELECTRONICS: Duet 3 Ecosystem

TOUCHSCREEN: 7" & 15"

CONNECTIVITY: WIFI, Ethernet, USB

WATER-COOLING: On-Board S&A CW-3000

MACHINE POWER: 220/240VAC, 50AMP

DRYER POWER: 110VAC, 15 AMP

DRYER CAPACITY: 25kg

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