TITAN ROBOTICS®

a 3D Systems company

ATLAS®-HS

Hybrid Additive and Subtractive Manufacturing on the Atlas-HS

Titan's new Atlas-HS provides new solutions for surface finish and production parts, all in one industrial hybrid system.

- Print Fast: Pellet Extrusion | Near Net Shape
- Machine Quickly: In-Situ | Post Print
- Better Parts: Smooth Surface | Tight Tolerances
- Save Cost: One Platform | Two Capabilities

FEATURES AND OPTIONS

Spindle Speed: 18,000rpm/1.5HP
Tool Size: Up to 1/4" diameter
Up to 4" tool length
Tool Changer: 6 tool capacity
Cut Space: 42" x 39" x 39"
Tool Calibration Sensors
3 Axis Configuration
Chip Collector

Shorten cycle times for tooling and serial production

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Industrial Additive Manufacturing Solutions

Titan Robotics Offers:

- Large format industrial 3D printers
- Hybrid additive and subtractive systems
- Pellet and filament extrusion systems
- Manufacturing on demand
- Materials integration and testing
- Consulting on 3D printing strategies
- Custom hardware, sensors & toolpathing

www.Titan3DRobotics.com

Our mission is to develop innovative solutions and technologies to enable adoption of additive manufacturing in industrial production.

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ATLAS®

ATLAS MODELS: *PRODUCTION AM SYSTEMS*

- Atlas-HS: Pellet + Spindle | Pellet + Filament + Spindle
- Atlas-H: Dual Pellet | Dual Pellet + Filament
- Atlas: Single Pellet | Hybrid Pellet + Filament

ATLAS 3.6

LARGE FORMAT | INDUSTRIAL QUALITY | HIGH SPEED

- Atlas 1.0: 30" x 30" x 45" Build Volume
- Atlas 2.5: 42" x 42" x 48" Build Volume
- Atlas 3.6: 50" x 50" x 72" Build Volume
- Custom Build Options and Sizes
- Industrial Heated Enclosures
- Closed Loop CNC Controller and Servo System
- Real Time Feedback and Automated Response

TEMPERATURES
HEATED ENCLOSURE: 80°C
TITAN PELLET EXTRUDER: 400°C
TITAN MASTIFF FILAMENT EXTRUDER: 400°C
HEATED BED: 140°C

ATLAS-HS 2.5

ADDITIONAL FEATURES AVAILABLE:

- Advanced Safety Interlocks
- Customized I/O Sensors
- Auto Z leveling System
- Material Dryers & Air Filtration Integrations

TOOL HEAD OPTIONS

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GF 30% PEKK Pellets & water soluble filament

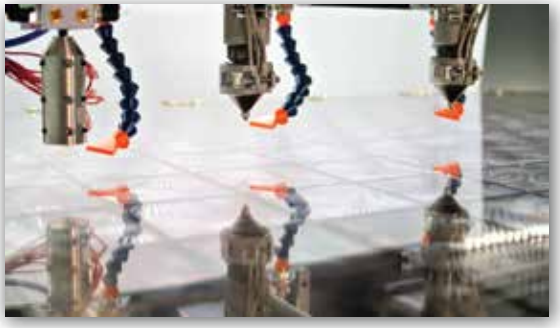
Many Options: One System

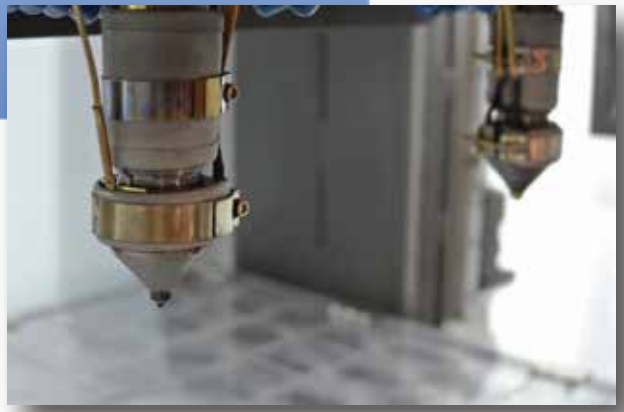
Multi-head and hybrid configurations provide ultimate flexibility on a single Atlas system.

Configurations Available:

- Pellet Extruder
- Pellet + Filament (single or dual) Extruders
- Dual Pellet Extruders
- Dual Pellet + Filament (single or dual) Extruders
- Hybrid Pellet Extruder + Sprindle
- Hybrid Pellet + Filament Extruders + Spindle

Hybrid Pellet + Filament Extrusion, available on all Atlas models, provides ultimate flexibility and enables dual printing using two different materials in pellet and filament form.





The Atlas-H with Dual Pellet Extruders enables printing with two pellet-feedstocks, such as soluble support material. Atlas-H is compatible with Dual Pellet and Hybrid Pellet + Filament Extrusion options.

Pellet Extrusion on the Atlas

Expanding 3D Printing Possibilities

Custom compounds with the following fillers are available:
Carbon Fiber/Glass Fiber/FR/Minerals

Flexible:
TPU/TPE/TPC

Standard:
PLA/ABS/PETG/PP

High Performance:
Nylons/PC/PEI/PEKK
PEEK/PPS/PSU

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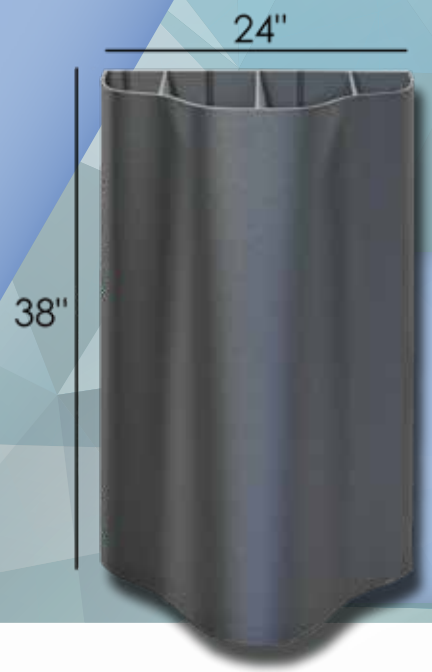
DIRECT PELLET
3D PRINTING ENABLES:

- UP TO 10X FASTER PRINTS
- UP TO 10X REDUCTION IN COST
- WIDER RANGE OF MATERIALS



Layup Tool

- PEI reinforced with 20% carbon fiber
- Printed on Atlas via Pellet Extrusion
- 12 hours print time

Titan Robotics is your source for material testing, integration and procurement

ADDITIONAL OFFERINGS FROM TITAN ROBOTICS:

3D Printing Services

Material Testing & Properties

Laser Scanning Services

Consumables & Materials Online Store

Design for Additive

50” x 50” x 72” Build Volume

INDUSTRIAL APPLICATIONS

- Foundry
- Aerospace
- Manufacturing
- Automotive
- Medical & Healthcare
- Visual Merchandising
- Rapid Prototyping

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