Largest, Fastest, Most Durable, High Print Quality, Industrial Strength 3D Printer for Under $30,000

Up to 1 m x 1.5 m x 0.7 m Build Area

Trusted by Fortune 100 Brands
At 3D Platform, we are committed to making your biggest ideas a reality. As a global leader in manufacturing LARGE FORMAT industrial strength 3D printers, our team is focused on driving advancements in technology to innovate, design and build next-generation equipment for additive manufacturing at an AFFORDABLE price.

THE MOST TRUSTED OPEN MARKET 3D PRINTER
When top industry leaders are looking to stay competitive in a demanding market, 3D Platform is who they call. We are trusted by Fortune 100 companies to deliver solutions that meet the unique design needs of the most innovative ideas. Recognized worldwide, our global distribution network supported by Certified Service Providers has helped us deploy more large-format, open market 3D printers than anyone else. That’s Big.

STARTING UNDER $30,000
High-quality and industrial strength shouldn’t come with a high price tag. Our passion is to build the largest, fastest, most durable open market 3D printers starting UNDER $30,000. This is our cost savings advantage – a commitment that can SAVE you up to 90 PERCENT on your investment compared to our competitors.

“We’re saving a $1000 per week... what took a week now takes a day...”
— New Business Development Manager, Global Consumer Goods Company

At 3D Platform, we are committed to making your biggest ideas a reality. As a global leader in manufacturing LARGE FORMAT industrial strength 3D printers, our team is focused on driving advancements in technology to innovate, design and build next-generation equipment for additive manufacturing at an AFFORDABLE price.

THE MOST TRUSTED OPEN MARKET 3D PRINTER
When top industry leaders are looking to stay competitive in a demanding market, 3D Platform is who they call. We are trusted by Fortune 100 companies to deliver solutions that meet the unique design needs of the most innovative ideas. Recognized worldwide, our global distribution network supported by Certified Service Providers has helped us deploy more large-format, open market 3D printers than anyone else. That’s Big.

STARTING UNDER $30,000
High-quality and industrial strength shouldn’t come with a high price tag. Our passion is to build the largest, fastest, most durable open market 3D printers starting UNDER $30,000. This is our cost savings advantage – a commitment that can SAVE you up to 90 PERCENT on your investment compared to our competitors.

“We’re saving a $1000 per week... what took a week now takes a day...”
— New Business Development Manager, Global Consumer Goods Company
INDUSTRIAL STRENGTH ENHANCED MECHATRONICS deliver superior speed and higher print quality. Four times greater performance and accuracy at top speeds. Twice as fast acceleration and deceleration. SIMO® Series actuators and Constant Force™ anti-backlash lead screws and nuts provide rugged, industrial framework and 40% More Build Volume.

BOROSILICATE GLASS HEATED BUILD PLATFORM is thermally stable and offers the ideal print surface for optimal printing and easy clean-up.

”SIMO” and “Constant Force” are registered trademarks of PBC Linear and are used with permission.

Features & Benefits

A WORKBENCHPRO’S TOUCH SCREEN BRAINBOX (HMI – Human Machine Interface) comes equipped with a 32 bit chip and optimized firmware to produce the highest quality, accuracy and resolution detail for your 3D prints. The BrainBox is 1000% faster and 1000% smarter than our last generation BrainBox. This quick-swappable box provides for future upgrades without the need for a technician.

B Not in the office? WI-FI ACCESS allows you to login through your mobile device to control the WorkbenchPro. Remotely stop and restart prints anywhere you have Wi-Fi access. Also, get detailed print information and statistics.

C SUREPRINT™ SERVO TECHNOLOGY delivers superior print quality and cuts print time in half. Closed-loop control provides positional feedback every 1.25 microns allowing you to print layer resolutions down to 50 microns.

D TOUCH PROBE provides state-of-the-art Auto Mesh Bed Leveling up to 441 points. Shortens set-up times and increases productivity.

E Fully Programmable ADVANCED COOLING SYSTEM provides rapid cooling to the print head for optimal material cooling and increased print speeds and print quality.

F INDUSTRIAL WORKBENCH provides a convenient wood work area. Built-in storage drawers and cabinets allow for easy access to tools and materials. Electronics Drawer provides easy access to power distribution. Non-slip lockable casters provide safety and mobility.

G FOLDING GANTRY fits through a standard door and allows you to conveniently locate your Workbench where you want.
RAPID PROTOTYPING –
ITERATE AGAIN AND AGAIN
The perfect product rarely comes out of the initial design. The WorkbenchPro allows you to develop custom prototypes quickly and at a low cost, giving you the opportunity to refine and test to perfection... again and again and again.

LEAN MANUFACTURING
BEGINNS WITH 3D PLATFORM
3D printing allows you to optimize fixtures, jigs and manufacturing aids. The WorkbenchPro opens the door to custom tool production and refined processes, helping to reduce incremental tooling costs and risks. Lean manufacturing initiatives just got BIGGER support with 3D Platform.

PRODUCTION ON A FASTER SCALE
Breakaway from manufacturing constraints and produce precision parts faster without expensive tooling. The WorkbenchPro’s large build area enables users to mass-produce end-use parts with multiple nozzle diameter options quickly and cost-effectively.

HELPING TO ADVANCE ORTHOTICS & PROSTHETICS
Help revolutionize the medical industry with fast, custom orthotics and prosthetics (O&P). Our open market 3D printers will accelerate the development and manufacturing times associated with custom O&P. Plus, large print area expands your opportunity in O&P manufacturing allowing for the printing of torso orthotics, entire limb prosthesis or multiple smaller parts, helping to further advance your medical innovation.

EXPANDING THE WALLS OF DESIGN & ARCHITECTURE
We’re helping to push the visual limits of design by giving architects and designers the opportunity to produce large objects in their own studio, bringing the structural detail to life. Our cost effective 3D printers are pushing the boundaries of what designers can create, helping them believe that truly anything is possible.

CREATE ON A BIGGER LEVEL
Creative professionals can expand and accelerate ideation with 3D printing technology. 3D Platform enables 3D artists to unleash their creativity and bring BIG ideas to life. Large build area allows for full-scale printing, without scaling down or multiple parts that require post-print assembly.

BRINGING RESEARCH & DEVELOPMENT TO MARKET FASTER
Test, learn and explore additive manufacturing processes. With 3D printing technology, our products are helping research and development teams, educational institutions, and scientists to experiment, refine processes and develop new product ideas quickly and cost-effectively.

CUSTOM PRINTING FOR ALL YOUR BIG IDEAS
The WorkbenchPro is designed to deliver innovative solutions for the most challenging applications and the most in-demand industries – but that’s just the beginning. With superior speed, precision, large build envelope and access to open market materials, our 3D printers create a blank canvas for your custom ideas, making anything possible.

...for a Wide Range of Applications.

We help you design without limitations. Our solutions provide customized, full-scale printing capabilities for companies looking to lead – not follow – accelerating the time from ideation to application at an affordable price.
Your Ideas are Just the Beginning...

EXPANDED 3D PRINTING CAPABILITIES
The WorkbenchPro was designed to expand the possibilities of 3D printing, because your BIG ideas shouldn’t have limitations. With advanced processes in 3D printing – such as inserts, core modeling and multiple materials – we are expanding the capabilities of our 3D printers to new levels.

You can incorporate non-printed elements such as fasteners, electronics, screen filters, switches, sensors or even metal substructures directly into a printed part. This enables you to produce fully functional models, prototypes and finished products that will help you differentiate in the market. That’s not possible with those fully enclosed 3D printers that operate in a closed eco-system.

“SINCE WE PURCHASED OUR WORKBENCH, WE KEEP FINDING NEW WAYS TO USE IT TO BE MORE EFFICIENT...THINGS WE NEVER HAD THOUGHT ABOUT BEFORE...”

— Packaging Engineer, Global Leader in Agricultural, Lawn and Garden Solutions

OTHER APPLICATION EXAMPLES

Electronics
NUT & BOLT COMBINATION
LINEAR BEARINGS, NUTS & SENSOR

Steel inserts, added during printing, provide structural reinforcement.
Our Open Market Advantage.

When it comes to maximizing innovation and value for our customers, our Open Market Advantage gives you the ability to choose from a wide variety of open market filament and software that can deliver up to a **90% savings** on your investment.

We believe that leveraging the power and the resources behind thousands of organizations to bring your solutions to life quickly and more affordability is what the market demands. Paired with the WorkbenchPro’s large format, industrial strength, superior speed and exceptional print quality starting under $30,000, that’s a combination that you can’t find anywhere else in the market.

Filament

Ongoing material science advancements provide a pipeline to rapid innovations in 3D printing, bringing your ideas from concept to reality faster, and more accurate than ever before. With diverse open market material selections, we enable printing capabilities when unique physical properties are desired:

- Bronze, wood, carbon fiber and other fills
- Flexible, pliable and rubber-like properties
- Rigid and conductive properties
- FDA compliant properties
- Conductive properties
- ...and more

Software

You deserve options. Our Open Market Advantage allows you to use the software you are already familiar with or to “right size” the software package that best meets your business needs and your budget.

- Detailed print previews
- Advanced print algorithms
- Core Modeling
- High speed, high quality prints

$\text{Simplify3D is available for purchase at simplify3d.com.}$

- Free open market software
- Includes an interface with Slic3r*

  * Slic3r is used in conjunction with Repetier Host and can be downloaded simultaneously from the Repetier Host website.

The program is available for download at repetier.com.

**Rapid ROI**

**MOTORCYCLE GAS TANK**

**MATERIAL COST COMPARISON:**

<table>
<thead>
<tr>
<th></th>
<th>Open Market</th>
<th>Proprietary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost per tank (year)</td>
<td>$23,400</td>
<td>$234,000</td>
</tr>
</tbody>
</table>

Study based upon the printing of one gas tank demo per week for fifty weeks = 50 tanks per year.

Open Market Advantage: $468 material per tank = $23,400 material per year.

Proprietary System: $4,680 material per tank = $234,000 material per year.
3D Print Statistics

Here are a variety of large 3D printed parts for a variety of applications. See for yourself how affordable it is to add 3D printing to your operation – giving you the competitive edge you need to stay ahead.

FRANKENSTEIN
Material: PLA
Material Cost: $240
Print Time 0.4 mm Nozzle: 144 hours
Print Time 0.6 mm Nozzle: 103 hours
Print Time 1.2 mm Nozzle: 46 hours

RIM
Material: PLA
Material Cost: $89
Print Time 0.4 mm Nozzle: 186 hours
Print Time 0.6 mm Nozzle: 133 hours
Print Time 1.2 mm Nozzle: 60 hours

ENGINE INTAKE MANIFOLD
Material: PLA
Size: X: 522 Y: 248 Z: 72 mm (X: 20.5 Y: 10 Z: 3 in)
Material Cost: $81
Print Time 0.4 mm Nozzle: 39 hours
Print Time 0.6 mm Nozzle: 18 hours

BUMPER
Material: PLA
Size: X: 375 Y: 850 Z: 355 mm (X: 15 Y: 33.5 Z: 14 in)
Material Cost: $612
Print Time 0.4 mm Nozzle: 462 hours
Print Time 0.6 mm Nozzle: 330 hours
Print Time 1.2 mm Nozzle: 149 hours

ENGINE BLOCK
Material: PLA
Material Cost: $962
Print Time 0.4 mm Nozzle: 568 hours
Print Time 0.6 mm Nozzle: 406 hours
Print Time 1.2 mm Nozzle: 183 hours

FULL BODY PRINT
Material: PLA
Material Cost: $550
Print Time 0.4 mm Nozzle: 168 hours
Print Time 0.6 mm Nozzle: 96 hours
Print Time 1.2 mm Nozzle: 44 hours

SHEET METAL BRACKET
Material: PLA
Material Cost: $912
Print Time 0.4 mm Nozzle: 70 hours
Print Time 0.6 mm Nozzle: 50 hours
Print Time 1.2 mm Nozzle: 23 hours

*All print times on page are with the Volcano extruder. Reduce times by as much as 50% with the new HFA extruder.
Extruder Ingenuity

3D Platform’s HFA and HFE extruders are the fastest filament extruders on the market. Quick-Swap dual extruder heads deliver high quality 3D prints and are independently controlled for speed and extruded material amounts. The modular design can accommodate filament sizes from 1.75mm to 6mm and nozzles sizes from 0.2mm to 5mm. Genius!

EXTRUDERS

<table>
<thead>
<tr>
<th>EXTRUDERS</th>
<th>Volcano</th>
<th>HFA</th>
<th>HFE300</th>
<th>HFE900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability</td>
<td>optional</td>
<td>standard</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>Filament Size (nominal, mm)</td>
<td>1.75</td>
<td>2.85</td>
<td>2.85</td>
<td>2.85</td>
</tr>
<tr>
<td>Hot End Power (watts)</td>
<td>40</td>
<td>40</td>
<td>35</td>
<td>300</td>
</tr>
<tr>
<td>Material Consumption (kg/hr)</td>
<td>0.08</td>
<td>0.08</td>
<td>0.16</td>
<td>0.32</td>
</tr>
<tr>
<td>Nozzle Size, minimum (mm)</td>
<td>0.2</td>
<td>0.4</td>
<td>0.2</td>
<td>0.4</td>
</tr>
<tr>
<td>Nozzle Size, standard (mm)</td>
<td>0.4</td>
<td>0.6</td>
<td>0.6</td>
<td>10</td>
</tr>
<tr>
<td>Nozzle Size, maximum (mm)</td>
<td>1.2</td>
<td>2.5</td>
<td>1.2</td>
<td>2.5</td>
</tr>
<tr>
<td>Additional Power Consumption (A @ 208V)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>15</td>
</tr>
<tr>
<td>Compatible Nozzle Sizes (mm)</td>
<td>0.2 O X X X X</td>
<td>0.3 O X X X X</td>
<td>0.4 STD O O O X</td>
<td>0.6 O STD STD O X</td>
</tr>
<tr>
<td>1.0 O O O O X</td>
<td>1.2 O O O O O</td>
<td>1.4 X O O O O</td>
<td>1.6 X O O O O</td>
<td>1.8 X O O O O</td>
</tr>
<tr>
<td>2.0 X O O O O</td>
<td>2.5 X O O O O</td>
<td>3.0 X X X X X</td>
<td>3.5 X X X X X</td>
<td>4.0 X X X X X</td>
</tr>
<tr>
<td>4.5 X X X X X</td>
<td>5.0 X X X X O</td>
<td>LEGEND: X = Unavailable, STD = Standard, O = Optional</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3D PLATFORM OFFERS YOU THE FLEXIBILITY TO CHANGE NOZZLES DEPENDING UPON YOUR APPLICATION AND PURPOSE.

Use a small diameter nozzle for fine layer resolutions. Use large diameter nozzles for fast printing and strong parts.

1. Consult factory for filament specifications and requirements for HFE900.
2. Actual material consumption will vary based on settings.
3. Additional power is per extruder. Double amount for two extruders.
4. Not all nozzle sizes are stocked. Consult factory for details.
Local Support **Globally**

At 3D Platform, we bring our highly personalized customer service and support to your doorstep no matter where you are worldwide. **We are committed to our customers’ success,** and will be there for support as you grow your businesses. From initial installation and training, to field support, troubleshooting and much more, 3D Platform serves as an extension of your team to ensure your operations are always up and running. **Because your success is our success.**

**INSTALLATION & SETUP**
We go to great lengths – and to your place of business – to get you up and running:

- Machine functionality verified on site to ensure confidence in printer performance.
- 3D printer fully calibrated, saving you time.
- A trained technician performs the fine-tuning resulting in a printer that is functional at the beginning of your first print.
- Basic machine and software functionality covered to help ensure you are knowledgeable, comfortable and confident in basic machine functionality and software.

**TRAINING**
We will ensure your team is up to speed — quickly — setting you up for success from your first print. Our courses cover the fundamentals on how 3D printing works and how you can take your BIG design ideas to the next level.

- Learn advanced printer functionality to help further knowledge of your 3D Platform printer.
- Review advanced slicing functions which emphasizes important techniques that can differentiate your product.
- Discover basic machine and software functionality to help your troubleshoot potential issues.

Training packages available for all experience levels, including packages for companies that are new to 3D printing or large format printing.

**GLOBAL DISTRIBUTION NETWORK**
We deliver 3D printing solutions to you no matter where you are. Through our Global Distribution Network, we are able to deliver products and parts to your facility without delay or additional costs.

**GLOBAL CERTIFIED SERVICE PROVIDERS**
We understand that any delay in production can have a negative impact on your revenue and business. Through our network of Global Certified Service Providers, you can have confidence that your machine is repaired correctly the first time and recalibrated back to factory settings. And with a simple call or email, our 3D Platform support team is there to diagnose basic issues or concerns to make sure you are always up and running, without delay.

“**3D PLATFORM DELIVERED OUR PRINTER, SET IT UP, AND WE PRINTED RIGHT AWAY...**”

— *Chief Engineer, Engineering, Design and Development Company for the Automotive, Aerospace, Architectural, Boating, Medical and Commercial Industries*
### TECHNICAL SPECIFICATIONS

**Sizing & Mechanical Features**

<table>
<thead>
<tr>
<th></th>
<th>100 Series WORKTABLE</th>
<th>200 Series WORKBENCHCLASSIC</th>
<th>300 Series WORKBENCHPRO</th>
<th>400 Series WORKBENCHXTREME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Width</td>
<td>1000 mm (39.3 in)</td>
<td>1000 mm (39.3 in)</td>
<td>1000 mm (39.3 in)</td>
<td>1000 mm (39.3 in)</td>
</tr>
<tr>
<td>Print Length</td>
<td>1000 mm (39.3 in)</td>
<td>1000 mm (39.3 in)</td>
<td>1000 mm (39.3 in)</td>
<td>1000 mm (39.3 in)</td>
</tr>
<tr>
<td>Print Height</td>
<td>500 mm (19.7 in)</td>
<td>500 mm (19.7 in)</td>
<td>700 mm (27.6 in)</td>
<td>700 mm (27.6 in)</td>
</tr>
<tr>
<td>Build Volume ²</td>
<td>0.2 m³</td>
<td>0.2 m³</td>
<td>0.7 m³</td>
<td>1.05 m³</td>
</tr>
</tbody>
</table>

**Mechatronics**

<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th>Standard</th>
<th>Standard</th>
<th>Standard</th>
</tr>
</thead>
</table>

**Max Load**

|                  | 1000 kg (2200 lb)     | 2460 kg (5400 lb)           | 2460 kg (5400 lb)         | 2460 kg (5400 lb)         |

**Approx Weight**

|                  | 1900 mm (75 in)       | 1900 mm (75 in)             | 2100 mm (83 in)           | 2100 mm (83 in)           |

**Overall Height**

|                  | X                      | X                           | X                        | X                        |

**Feed System**

|                  | Bowden Style Tubes     | Bowden Style Tubes          | Bowden Style Tubes        | Bowden Style Tubes        |

**Controls**

|                  | LCD Display            | 178 mm (7 in) Touch Screen  | 178 mm (7 in) Touch Screen| 178 mm (7 in) Touch Screen|

**Power Input**

|                  | 208 - 240V, 15A, 50/60 Hz, 1 Phase |

**Certifications**

|                  | CE                     |

**Ambient Operating Temp**

|                  | 15 - 32°C (59 - 90°F) |

**Motors**

|                  | SurePrint Servo®       |

**Extruders**

|                  | HFE900                 |

**Layer Resolution**

|                  | Down to 50 Microns (0.002 in) |

**Build Platform**

|                  | Maker Frame            |

**Printed Object Size**

|                  | 500 mm (19.7 in)       | 500 mm (19.7 in)            | 700 mm (27.6 in)          | 700 mm (27.6 in)          |

**Build Platform**

|                  | Maker Frame            |

**Frame**

|                  | Workbench              |

**Bed Leveling**

|                  | Standard Mesh Leveling |

**Bed Leveling: Basic Enclosure**

|                  | None                    |

**UK/US/Canada/International**

|                  | Yes (adapter kit needed) |

**Feed System: Bowden Style Tubes**

|                  | X                      |

**Filament Sensor**

|                  | X                      |

**Feet - Casters**

|                  | X                      |

**Physical Dimensions & Weight**

|                  | 1475 mm (58 in)        | 1475 mm (58 in)             | 1475 mm (58 in)           | 1475 mm (58 in)           |

**Overall Length**

|                  | 2286 mm (90 in)        | 2286 mm (90 in)             | 2286 mm (90 in)           | 2286 mm (90 in)           |

**Overall Height**

|                  | 1500 mm (59 in)        | 1500 mm (59 in)             | 2100 mm (83 in)           | 2100 mm (83 in)           |

**Apron Weight**

|                  | 135 kg (300 lb)        | 135 kg (300 lb)             | 245 kg (540 lb)           | 245 kg (540 lb)           |

**Shipping Weight**

|                  | 370 kg (815 lb)        | 455 kg (999 lb)             | 455 kg (999 lb)           | 455 kg (999 lb)           |