

Shaping the future of construction, accelerating the present with advanced 3D technology.

Solutions in
3D printing with
cementitious, metallic
and other materials.

Flexibility with shapes design
and structural complexity

Great variety of Materials and
Possibilities to explore

Projects can be printed on the
construction site or in modules.

Simple and easy to finish and fine-tune
to future specifications

PB Elite V2
Roadrunner
Full Extended

*Illustrative Image.



PROBUILD3D

3D Printing.

The Revolution of the Industry.

- 3D Printing = Additive Manufacturing – waste of material is almost zero
- One single structure (print at once)
- Custom pieces to be assembled together (intelligent interlocking design)
- Standalone pieces with different shapes, materials and function
- Earlier stages of deployment in Construction in terms of technology and materials
- Precision and repetitiveness
- Great variety of materials and possibilities to explore.
- Project to Reality – Record time and lower cost
- Material deposition into final shape
- Total flexibility – Shapes, design and structural complexity
- 3D printing in construction – Still a blue ocean strategy and market

3D Printed House - Model Home Design



Endless Possibilities

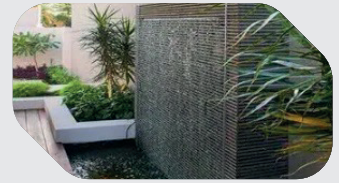
SIGNS



DRAINAGE



LANDSCAPING



SCULPTURES



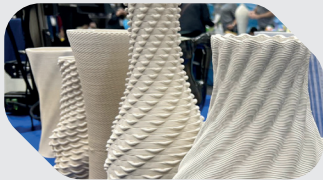
BAKING & BBQING



SHEDS



VASES & PLANTERS



COLUMNS



FIREPLACES



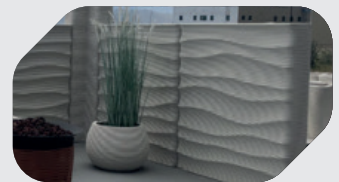
BENCHES



STAIRS



ARCHITECTURAL WALLS



PB Elite V2 Roadrunner Full Extended

PB Elite V2 Roadrunner Printer combined with our Roadrunner track. It adds another axis of control, allowing you to make even larger creations, such as full size structures and walls. Include a pump and mixer and you are ready to start printing.

Simple and Minimalist

Avoiding complexity and high maintenance

Flexible

Allows printing process to occur on-site or in the warehouse



*Illustrative Image.

Scalable

Modular solutions for small or large projects with multiple heads

Mobility

Usable in indoor and outdoor environments

Specifications

Printing Envelope:
X- 248" (6300mm)
Y- 110" (2800mm)
Z- 68" (1727mm)

Minimum Printing Envelope:
X- 157" (4000 mm)
Y- 39" (1000 mm)

Reliable

Easy to configure, install, uninstall, maintain, clean, and repair. Easy to operate (Hardware & Software), move, and transport.

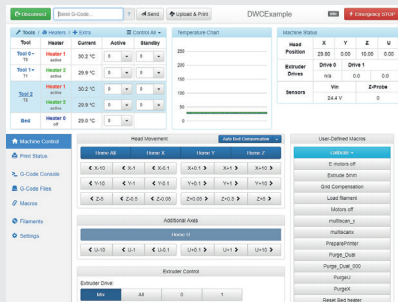
Power Supply

110V, 10A no stress

Printer size:
W-22" L-162" H-95"
Maximum Operational space needed:

W-116" L-278" H-100"
Weight with rail system:
~120lbs. (~54kg)

Average speed: 1.2" to 3.9"/s (30 to 100 mm/s) Power Supply: Output - 24V ~15 amps, Input - 110-220V, 50-60 Hertz Power consumption: 24V ~10 amps, ~240 Watt Main controller board running Duet3D with Atmel SAM4E8E: 120MHz ARM Cortex-M4 Full control through web interface, no apps or software installation. Non-WiFi versions are available, please contact us if you would like this type of connection (Ethernet connection).

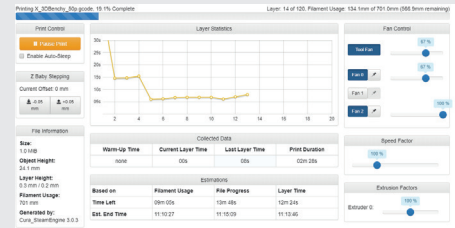


User Interface (Wifi)

Duet Web Control is a fully developed UI for the PB. Opened in a web browser, it can be used on your laptop, tablet, phone, or other WiFi capable device. The PB Elite V2 Roadrunner combined with our Roadrunner rail system provides an industrial size print area. You can print full structures and walls using our pump system. There is no limit to your creations with this machine.

Print Status

Once a print is started, it shows information about the model being printed. Layer times, estimated time remaining, file information, and more are available for view. It also allows for print and extrusion speed control to be adjusted in real time.

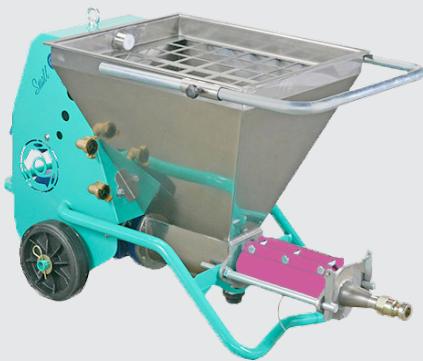


G-Code File	Size	Last modified	Object Height	Layer Height	Filament Usage	Generated by
Special_Level_Test.gcode	4.3 MB	17/09/2017, 17:45:02	2.2 mm	0.2 / 0.2 mm	7170.7 mm	Cura_SteamEngine 2.7.0
Lower_Level_Test.gcode	20.1 MB	17/09/2017, 19:41:17	105.4 mm	0.2 / 0.2 mm	10073.1 mm	Cura_SteamEngine 2.7.0
Lower_Super_Level_Test.gcode	87.9 MB	26/09/2017, 14:54:01	219.6 mm	0.3 / 0.3 mm	95518.0 mm	Cura_SteamEngine 2.7.0
X_3DPrint_50p.gcode	1.0 MB	04/07/2018, 14:02:03	24.1 mm	0.3 / 0.2 mm	701.0 mm	Cura_SteamEngine 3.0.3

G-Code Files

The G-Code Files page allows g-code files for printing to be uploaded, edited, or downloaded. A summary of the file is given such as size, layer height, and what the file was generated by.

Accessories



Continuous Cement Mix Station

The Mixer constantly controls the volume of powder and also maintains the exact ratio of water and/or accelerant. In addition, you have full control of the mixing chamber speed and temperature during operation and you can save your favorite presets.

Pump Station - Mighty Small 50

Using our Continuous Flow Pumps enables large-scale ceramic prints and large multi-object prints as well as the use of cementitious and adobe materials, opening the door for many large scale uses such as sustainable housing and structural printing.



Our Products

Item	PB Elite V2	PB Elite V2 Roadrunner	PB Elite V2 Roadrunner Full Extended
X-Y-Z Build Volume (in/mm) *(in rounded to closest integer)*	115" Dia. x 68" Z 2921 Dia. x 1727 Z	User Selected	144" Dia. x 96" Z 3658 Dia. x 2032 Z
Extruder Capacity	3600ml, 4000ml, Continuous Pump*	Continuous Pump*	Continuous Pump*
Continuous Flow Available	✓	✓	✓
Printing Speed (in/mm)/Second	1.2" - 3.9"/s 30mm - 100mm/s	1.2" - 15.7"/s 30mm - 400mm/s	1.2" - 15.7"/s 30mm - 400mm/s
Nozzle Size	1/4" - 2"	1/4" - 2"	1/4" - 2"
Motor Types	Hybrid Closed Loop Steppers and ClearPath	Hybrid Closed Loop Steppers and ClearPath	Hybrid Closed Loop Steppers and ClearPath
Easy Maintenance	✓	✓	✓
Real Clay	✓	✓	✓
Wifi Enabled	✓	✓	✓
Web Browser Interface	✓	✓	✓
Universal CAD Capabilities	✓	✓	✓
Direct Extrusion (No Air Compressor)	✓	✓	✓
Multiple Object Printing	✓	✓	✓
Industrial Grade	✓	✓	✓
Retracting Capable	✓	✗	✗
Concrete Printing	✓	✓	✓
360° Degree Printing	✓	✓	✓
Auger System	Optional	Optional	Optional
Extended Z Rail 2440mm	Optional	Optional	✓
Extended Distal Arm Length 1070mm	Optional	Optional	✓
Extended Track Length 6000mm	Optional	Optional	✓
Continuous Cement Mix Station	✓	✓	✓
Pump Small 50 - Continuous flow pump, 3 gph, volume	✓	✓	✓
Hopper Capacity 12.5 gallons	✓	✓	✓
50ft of Hose and Nozzle assembly for Pro Build Robot	✓	✓	✓
Print nozzles: 16mm, 19mm, and 25mm (5/8, 3/4 and 1 inch) - Included	✓	✓	✓
Silo: 1 Ton aluminum structure using super sack directly over pumping system	✓	✓	✓
Hours of Consulting / Training for 3D Operational, Design and Modularization	20 hours	40 hours	40 hours
Computer for software operation	Optional	✓	✓
Coyote Mixcell and Accelerant Pump	✓	✓	✓
One year warranty	✓	✓	✓
Extended Warranty*	Optional	Optional	Optional
10ft Lifting Station Kit	✗	Optional	✓
20ft Rail included	✗	✓	✓
12ft Rail included	✗	Optional	Optional
Mixcell for Auger with Acceleration Pump	Optional	Optional	Optional

● All our products can be customized according to business need.

● Contact us and discover our complete portfolio of printers, including 3D printers for metal, clay and other materials.

About Us



Additive construction for the residential and commercial sector.



Additive manufacturing of functional objects and Modular C3DP.



R&D and manufacturing of 3D printers and additive manufacturing systems in the USA.



R&D and commercialization of materials and mixtures.



Global Equipment Distribution. Construction companies from various countries are already using our equipment.



Become a Licensed Probuild3D in your region

Contact us and learn about the licensing program



Learn more about our equipment lease / financing conditions

up to **72** months
Rates starting at 7%



Discover our 3D solutions for

- Large-scale construction
- Small Builders
- Small Business
- Universities

- Equipment lease / financing program available only to customers / companies in the United States
- Conditions of lease / financing, subject to credit approval by the financial institution

