

### **Product Guide**

# **B9Creations Introduction**

#### Solutions designed to make your business more efficient and profitable than ever before.



B9Creations' additive manufacturing solutions are engineered to give users fast, dependable, and easy-to-use technology that delivers unrivaled print resolution and value. Whether it's custom design or large-scale manufacturing, lean on B9Creations' additive manufacturing solutions and know you've got the best value in the industry.

#### Cutting-Edge Technology & Timeless Value

B9Creations lives out this commitment by keeping operating costs low, not requiring maintenance contracts, and including world-class factory startup assistance with every B9 Core Series sold.

#### End-to-End Additive Manufacturing Solution

B9Creations offers top-of-the-line 3D printers, accessories, materials, software, and customizable options. Our professional additive manufacturing solutions are setting a new industry standard for repeatability, dependability, and ease-of-use.

#### Industry-leading Customer Support

Our customers receive technical assistance from trained and experienced service technicians who are prepared to respond quickly to your service requests, free of charge.

"To stay competitive, you've got to have technology that enables you to move faster, reduce costs, and serve your customers better. That's really our focus – serving our customers as an innovation engine, bringing them easy-to-use technology at a great price point, with a customer experience that enables their business to grow."

> Shon Anderson B9Creations CED



### **B9Creations** Overview

Making additive manufacturing solutions work for you.





Out of the box and printing in 15 minutes with 5 button pushes. Each B9 Core Series 3D printer will come with everything you need to immediately start printing, including our world-class Factory Startup Assistance.

Leveraging B9Creations' patented & patent-pending technology, the B9 Core Series delivers precision engineering and surface finish to set a new standard whether you're producing one part or thousands.



Unmatched

Precision



The exceptional speed of the B9 Core Series allows users to print hundreds of models in a typical 8-10 hour workday. Now you can design, print, and finish your product in the same day.

With the B9 Core Series 3D printer, you can see a return on your investment in just 12-18 months, or less. We also have financing options available.

# **B9Creations Technical Performance**

Additive Manufacturing Solutions that make sense for your business.

### When you're considering investing in a 3D printer, it comes down to one question:

#### Does it make financial sense for your business?

If you're looking to accelerate design cycles, lower production costs, create a more resilient supply chain, or gain flexibility throughout your product's life-cycle, B9Creations FAST™ DLP technology offers rapid, reliable, high-resolution 3D printing – with low operating costs and no maintenance, calibrations, or service contracts required.

Unlike low-resolution FFF or costly SLS printers, DLP technology offers high fidelity to your CAD files with a quick return on investment – and better resolution, higher accuracy, and faster speeds than SLA printers. B9Creations DLP technology is differentiated even within its own field. Unlike other DLP platforms that offer fast print times but painfully slow post-processing, B9Creations' workflow includes automated post-processing that cleans and cures models in minutes. Powered by FAST<sup>™</sup> technology, users gain production-grade parts, pinpoint accuracy and precision, and a flawless finish on all B9Creations 3D printers.

#### **3D PRINTING PRINT PROCESSING TIME COMPARISON**



**B9**Creations

### **B9Creations** FAST™

#### Engineered to bring you unmatched **precision at unbeatable speeds**.

#### Resolution, Accuracy, Precision, and Finish

Just because a 3D printer claims high resolution in its technical specifications doesn't mean your parts will be accurate or precise. Lowquality components, calibration requirements, material properties, and post-curing can all affect accuracy (how close your 3D printed part is to your CAD file) and precision (how consistently your printer delivers the expected output). Plus, historically if you wanted a printer with great surface finish, the accuracy of your part would suffer because smoothing the edges of your print comes at a cost to dimensional accuracy.

#### Patent-pending FAST™ Technology

With FAST<sup>™</sup> users no longer have to choose between precision and surface finish – and in fact, get to upgrade. You benefit from an even better surface finish and pinpoint accuracy with absolute fidelity to your CAD model. This means you get perfectly sized prongs and holes, seamless-fit settings and snap-fits, and even the finest filigree or feature set comes out flawlessly every time – all with a smooth finish that cuts down on post-processing.

FAST<sup>™</sup> enables customers of even our larger-format printers to benefit from a smooth finish and unbeatable accuracy. With FAST<sup>™</sup>, the B9 Core 5 Series XL still delivers effective resolution finer than 25 microns, even though its print volume is 5 times larger than the Core 530 and 2 times larger than the Core 550.









### **B9Creations Workflow**

Print your product in six steps with **B9Creations.** 





### B9 Core 530 | B9 Core 550 | B9 Core 5 Series XL

The 3D printer leading in **speed**, **simplicity**, **and value**.





#### Features

- 4x faster than industry average
- Plug-and-play operation
- Resin vats lasting over 1,250 prints
- Wide selection of resins
- Open to third-party materials
- 0 calibrations
- Out of the box and printing in 15 min
- Prints reaching 120+ mm per hour

B9 Core <b>530</b>	B9 Core <b>550</b>	89 Core 5 Series XL 405 or 385
57.6 x 32.4 x 127 mm	96 x 54 x 127 mm	124.8 x 70.2 x 127 mm
405 nm	405 nm	385 or 405 nm
	<b>530</b> 57.6 x 32.4 x 127 mm	530 550   57.6 x 32.4 x 127 mm 96 x 54 x 127 mm

Print Speeds	40-120+ mm/hr	25-100+ mm/hr	15-85+ mm/hr
Effective Resolution with FAST™	<15µm	<25µm	<25µm
Machine Dimensions	267 x 420 x 593 mm		



### **B9 Core 6 Series** MPro

#### Precision, Versatility, and Speed in Large-Scale 3D Printing





Leveraged by customers in biotech, med device, education and industrial applications, the B9 Core 6 Series MPro is a high-precision, large-format 3D printer that furthers research and produces functional prototypes and end-use parts with accuracy, consistency, and finishes rivaling injection molding.

	MPro
Max Print Dimensions	192 x 108 x 320 mm
Wavelength	385 nm
J Print Speeds	5-25+ mm/hr
Effective Resolution with FAST™	50µm
Machine Dimensions	503 x 511 x 975 mm

#### Key Features

- Large Build Volume: 192 x 108 x 320 mm for larger parts & high throughput.
- **High Resolution & Exceptional Quality:** XY effective resolution of 50 µM for precise, detailed prints and tight tolerances.
- User-Friendly Operation: No specialized technicians required. The MPro comes with factory calibration and features simple print preparation software and an intuitive interface.
- **Support You Can Count On:** Access to technical support, factory startup assistance, print optimization services and premium support options for extra peace of mind.
- **High Speed:** Accelerated build time for increased agility, fast and frequent design iterations, quick prototype tooling and more.
- Advanced Materials: B9Creations offers a diverse range of engineering, elastomeric and specialty 3D printing materials with easy resin changeover to switch materials in minutes.
- **Customized to You:** Whether you want the ease of over-the-air updates or complete private network for security, settings for third-party materials or integrations into your MES system, our MPro can be adapted to fit you.

# B9 Core Med Series B9 Core Med 550 | B9 Core 5 Series Med XL

#### Helping you deliver the **best possible patient outcomes**.



Designed and engineered to be a class of one in the healthcare industry, the B9 Core Med Series paired with our suite of 10993 biocompatible and engineering-grade resins integrates medical-grade additive manufacturing into the design, production, and use of medical devices, anatomical modeling, surgical tools, and more. This medical upgrade to our award-winning B9 Core Series 3D printer line is built in world-class manufacturing facilities in the USA, boasting IEC 60601-1 and IEC 60601-1-2 medical equipment compliance.

Core 5 Series Med XL 385

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	Core Med 550	Core 5 Series Med XL 405	Core 5 Series Med XL 385
Print Dimensions	96 x 54 x 127 mm	124.8 x 70.2 x 127 mm	124.8 x 70.2 x 127 mm
Wavelength	405 nm	405 nm	385 nm
J Print Speeds	15-120+ mm/hr	15-85+ mm/hr	15-85+ mm/hr
Effective Resolution with FAST™	<25 µm	<25µm	<25µm
Machine Dimensions	267 x 420 x 593 mm (10.5 x 16.5 x 23.5")		

#### Features

- Out of the box and printing in 15 minutes with factory startup assistance included and never requires calibration
- 4x faster than industry average
- IEC 60601-1 and IEC 60601-1-2 medical equipment compliant
- Approved for prolonged skin duration of up to 30 days, ISO 10993 biocompatible, engineering-grade, and castable materials
- Intelligent print preparation, management, and monitoring software

<b>Core Med 550</b> 96 x 54 mm	
<b>Core 5 Series Med XL 385, 405</b> 124.8 x 70.2 mm	Build Size X-Y Resolution

### B9 Dent Series B9 Dent XL | B9 Dent Lab

#### Experience the **future of precision dentistry**.





#### Features

- Versatile technology for clinical, lab and educational use
- End-to-end regulated workflow
- Seamless integration with existing systems
- Unrivaled usability and performance
- High-performance dental resins

Developed by dental experts to be part of a comprehensive, thoroughly tested workflow, the B9 Dent Series is a cutting-edge 3D printing platform that incorporates advanced technology to elevate your dental practice, lab, or educational institution.

	B9 Dent XL	B9 Dent Lab
Print Dimensions	124.8 x 70.2 x 127 mm	192 x 108 x 320 mm
Wavelength	385 nm	385 nm
Print Speeds	15-120+ mm/hr	5-25+ mm/hr
Effective Resolution with FAST™	<25µm	Coming Soon
Machine Dimensions	267 x 420 x 593 mm	503 x 510 x 975 mm

#### Indications:

Removable Dies Digital Wax-Up Models Diagnostic Models Crown & Bridge Implant Models and Restorations Orthodontic & Clear Aligner Models Surgical Guides Gingiva And More

### **B9 Elite Series** B9 Elite Micro

#### Advanced Micro 3D Printer Performance at 1/4 the price.





B9Creations' Elite Micro enables users to 3D print geometries that would be impossible to create any other way – redefining additive's place in the manufacturing ecosystem and fueling a new revolution spanning several medical and industrial applications.

The Elite Micro brings 3D printing to the forefront of modernization. With ultra-high resolution, accuracy, precision, and repeatability, the first platform of this hardware series offers native pixel size of 20 microns with wall thicknesses down to 30 microns and holes down to 100 microns, delivering even the most challenging micro parts at production quality – for one-fourth the cost of high-end micro 3D printers.

Print Dimensions	38.4 x 21.6 x 127 mm
Wavelength	385 nm
Print Speeds	1-7+ mm/hr
XY Optical Resolution (Native Pixel Size)	20 µm
() XY Effective Resolution with FAST™	10 µm





### **B9 Core 5 Ascent Series**

# B9Creations

The 3D printer leading in **speed**, **simplicity**, **and value**.



Take your creations to new heights with the B9 Core 5 Series Ascent XL. With a 12.5-inch Z-height, this platform
is ideal for producing taller parts in medical, aerospace, and other applications where precision is paramount.
Boasting a powerful 385 nm light engine, the Ascent XL enables you to print with clear or other specialty
materials—while delivering both the design space and accuracy required for your projects.

Print Dimensions	124.8 x 70.2 x 320 mm
U Wavelength	385 nm
J Print Speeds	15-85+ mm/hr
Resolution	<25µm
Software	FAST™ Technology Powered by B9Create
Machine Dimensions	267 x 420 x 800 mm (10.5 x 16.5 x 31.5")

#### Features

- 4x faster than industry average
- Plug-and-play operation
- Wide selection of resins
- Open to third-party materials
- 0 calibrations
- Out of the box and printing in 15 min
- Prints reaching 100+ mm per hour

<b>Core 5 Ascent XL</b> 124.8 x 70.2 mm	Build Size

# **B9Creations Software**

Additive manufacturing solutions that power your business and change our world.

### **B9Create**

Our next-generation software will optimize your print processes like never before — with better surface finish, accuracy, and painless post-processing. Leverage our Workflow Mode for seamless layout and supporting or drop into Design Model to adjust a breath of parameters to fine-tune results.

#### Special Features

- Equipped with FAST™ technology
- Advanced supports and foundations, including mirroring supports and reinforcement bars
- Auto support templates
- Slices in minutes
- Highlighted unsupported area indicator
- Expanded import file format capabilities
- Robust print analytics and material print usage estimates
- Sectioning tool
- Build your own part library

Dark Site Capabilities for B9Create & B9Captivate In addition to the standard Open Network licensing option, two new ways to license will be added: Limited Network and Private Network.

**Dpen Network Licensing**: Will require an internet connection, however, can be used for up to a week offline.

\*Limited Network Licensing: Computers never need an internet connection, and instead, can annually transfer a license file to the offline computer.

\*Private Network Licensing: A local licensing server runs on the user's private network. The software connects to the local server and never needs an internet connection.

\*Avalible with paid custom upgrade

### **B9Captivate**

#### Material Development Software

A material development toolkit that helps you optimize for the chemistry of your custom materials and the geometry of your part — so you can develop settings perfectly engineered for your application.

**B9**Captivate

#### Basic

Free and included in your B9Create software. It allows you to modify slice thickness and exposure.

#### Professional

Includes Basic settings plus mechanical cycle settings, version control and optimization.

#### Enterprise

Includes Professional settings, plus dimensional fine tuning, third-party distribution, and material development support.

# B9Creations

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### **B9Creations** Accessories

Take the work out of your workflow.

### **B9 Clean XL**

Automate your post-processing with thorough, no-mess cleaning. Parts can be transferred directly from B9 Core Series 3D printers to the B9Clean while still on the build platform or as loose models on the part tray.

#### O Touch Points

Before your part is printed, clean, and dry

#### **10 Minutes**

Approximate clean time with fresh isopropyl alcohol (IPA)

#### 1.3 Liters

IPA volume for wash bucket Uses 75% less cleaning solution than other wash units Can hold up to 2 liters for larger parts

50 Uses Amount of uses per IPA refill in regular use



### **B9 Model Cure XL**

Deliver a better cure penetration in minutes with our highpowered, customizable, user-friendly B9 Model Cure XL

#### Customizable

Adjust the intensity of your wavelength from 375-405 nm, duty cycle, and time of your cure with the push of a button

Chamber Dimensions 140 x 140 x 83 mm



B9 Core 5 Series: XL & Med XL

#### **Digital** Timer

Digital timer displays from 5 seconds to 30:00 maximum



### CleanPro

### **B9 Model Cure**

With a powerful design that reduces curing time, the B9 Model Cure boasts memory settings for fast, repeatable workflow.

**B9**Creations

#### Memory Settings

#### **Dioital Timer**

3 memory settings allow for repeatable workflow

Digital timer displays from 10 seconds to 9:50 maximum

Chamber Dimensions 127 x 170 x 70 mm

#### Ideal for Printers B9 Core 5 Series: 530, 550 & Med 500





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**B9** CleanPro

Our advanced post-processing unit, the B9 CleanPro, seamlessly integrates with B9Creations 3D printers, providing thorough, no-mess cleaning for larger parts or multiple smaller parts simultaneously, enhancing workflow efficiency and reducing hassle.

# **Engineering Materials**

#### Bring your ideas to life with our industrial-grade engineering materials.

Optimize your manufacturing process with our engineering materials, iterating designs more quickly, assessing form and fit, and bringing better products to market - all while increasing efficiency and adding more profit to your bottom line. Perfect for rapid prototyping and end-use applications, our engineering materials that can withstand the manufacturing environment.







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Resins are optimized for specific B9Creations 3D printers. Please contact us for compatibility information.

### **Micro Materials**

#### Defy Limits with Precision: Micro Materials for Ultra-High Resolution 3D Printing

Our range of micro materials is tailored for users seeking to 3D print intricate geometries that defy conventional manufacturing methods. Featuring ultra-high resolution, pinpoint accuracy, precision and repeatability, they print on platforms with effective resolution down to 10µm and maintain rigidity at microscale.



Resins are optimized for specific B9Creations 3D printers. Please contact us for compatibility information.





### **Design Materials**

#### Bring your ideas to life with our design materials.

Our suite of design materials are ideal for high-resolution rapid prototyping and design verification. With smooth surface finish, dimensional accuracy, and precise detail, these resins produce excellent prototypes for iterative product design for and make a great base for parts that will be primed or painted.



B9Creations

Resins are optimized for specific B9Creations 3D printers. Please contact us for compatibility information.

### Casting & Jewelry Mold-making Materials

#### Bring your ideas to life with our jewelry materials.

Our castable resins print in incredible detail, with a jeweler-approved burnout schedule that produces flawless results in silver, gold, platinum, and more. Coupled with our high-speed Gray resin for showing customers their rings to enable same-day sales and Resilient-Silicone resin for mold making.





## **Biocompatible Materials**

Bring your ideas to life with our biocompatible materials.



Ideal for medical manufacturing, clinical, and consumer tech environments, BioRes is ISO 10993-5 and or ISO 10993-10 biocompatible. These materials are ideal for rapid prototyping of medical devices to production runs of thousands, surgical tools, anatomical models, medical research, and wearable technology.



Biocompatible Materials



### **B9Creations Service Bureau**

#### Bring your ideas to life with on-demand prints.

To help you explore the integration of additive technology into your business, B9Creations offers on-demand 3D printing services, from design validation to prototype parts, jigs & fixtures, and production runs of thousands of parts.

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Simply put – because we recognize and appreciate the uniqueness of our customers' projects. We don't just follow a set-in-stone framework and tick boxes along the way. Instead, we explore every aspect of your project to build a one-off process around its specifications.

The process of utilizing a 3D printing service bureau typically involves sending in a CAD file, selecting some parameters, receiving a quote, and then paying for your parts before they're shipped to you. B9Creations strives to reach beyond the conventional process – enhancing your experience by personalizing the entire route you'll take. We'll qualify and delve into your project, assess your unique needs, and take you along on the journey to help you understand the full potential of additive manufacturing for your application.

Schedule a meeting with one of our experts today to see if additive manufacturing as a service bureau, is right for you. Whether it's a series of one-off prints or medium-level full production, our team will do whatever it takes to help you succeed in your business endeavors.





# **B9Creations** Testimonials

#### Technology designed to **exceed expectations**.

At B9Creations, we value your 3D printing experience — commitment to customer satisfaction is the language of the company's culture. By taking feedback from our customers and transforming it into our patented technology, we bring you 3D printing solutions designed to exceed expectations.



"I could sing this machine's praises all day. That's the honest truth. I would not have been able to do half the things I do without it. I would never be able to get that detail into hand-carving a piece. I casted a pair of earrings and one did not come out. I was able to grow another in 12 minutes. It was so fast! I re-casted it, and it was perfect."

> Megan Proctor Hubbell Jewelry Design

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"When the B9 Core Series came out, it was an unbelievable relief. In the first year, I did 35 exhibitions, turned down 20 more, and did a number a TV-related jobs along with wholesale orders, some 3,000 figures or more. With the B9 Core Series, I can get them out incredibly fast, especially with the high-speed Gray Resin."

> Alan Butler Modelu 3D



"As a medical device engineer, I have shown parts from B9Creations, Carbon, and HP Multi-Jet Fusion to engineers, and they can't correctly identify the printer used. This shows that B9Creations additive manufacturing system is really good. Plus, your 3D printed parts are sharper, higher resolution & higher quality than my injection-molded parts."

> Medical Device Engineer Large Medical Manufacturer

#### In good company









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Medtronic





**B9**Creations

## **B9Creations Support**

At B9Creations, we value your **3D printing experience**.





Our customers receive technical assistance from trained and experienced service technicians who are prepared to respond quickly to your service requests, free of charge. Through the B9Creations Support Portal you can access software downloads, support documents, instructional videos, FAQs, and more just by signing up.

#### Talk to a human — never a machine.

#### World-class Factory Startup Assistance

We'll show you how easy it is to get up and running with the B9 Core Series. In your startup training, you'll learn about importing files, orienting and supporting models, DuraVat care, cleaning procedures, and much more!

#### Unrivaled Customer Support

At B9Creations, we value your 3D printing experience. If your machine ever needs to be serviced by our technicians, we know that you don't want to be stuck waiting while your production is halted. So, as soon as you send your printer in, we'll send a temporary replacement your way!

#### On-Demand, Customer-Specific Training

If you're having trouble with a certain aspect of your 3D printing workflow, we're here to help! B9Creations offers free, personalized training sessions, held by service technicians who are ready to help with whatever, whenever!

B9Creations is available Monday - Friday from 8 am - 5 pm MST. Feel free to contact us at +1 (605) 787-0771

# **B9Creations** Core Values

Not all technology companies are **created equal**.





#### Customer-Driven Solutions

To develop solutions that solve real problems, we incorporate customers into every step of product development, translating their needs into innovative technology.



#### Partner Network

Leverage our customized solutions as an OEM, or discover technology tailored to your needs through our global channel network of local experts.



#### User Experience

As the leader in speed, simplicity, and value, we stake our brand on your success. Here, customer service isn't a department. It's the company.



#### Innovation Engine

Driven by our competitive advantage of out-listening, we are an innovation engine that improves customer's lives with technology.

### About Us

As a global provider of digital manufacturing technology, B9Creations has become the industry leader in production, speed and value. It now stands as the additive manufacturing market leader in high-precision applications such as model making, prototyping and manufacturing, research, medical, and jewelry. B9Creations serves customers, from 3M to Medtronic, Procter & Gamble, and more, and certified dealers in nearly 70 countries around the globe. Ranked on Inc. Magazine's 2020 annual Inc 5000's list of the nation's fastest-growing private companies.



# **B9Creations Next Steps**

Discover how high-resolution 3D printing **can work for you.** 



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# Want to find out more?

- Request a sample
- , Get more product information
- Schedule a product demo
- , Talk to a solutions expert

### Take the next step

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