3D PRINTING SOLUTIONS SOFTWARE OVERVIEW

3D printing, also called additive manufacturing, is a procedure by which you can create physical objects by depositing elements in layers based on an electronic model. The 3D printing process needs hardware, software, and materials to function together.

3D printing technology can be leveraged to produce everything from simple parts and prototypes to complex technical products like medical implants, eco-friendly buildings, airplane parts, and artificial organs utilizing human cell layers. For 3D printing, you need a slicing software and optionally you can also utilize a solution to produce 3D models for printing.
The FeaturedCustomers Customer Success ranking is based on data from our customer reference platform, market presence, web presence, & social presence as well as additional data aggregated from online sources and media properties. Our ranking engine applies an algorithm to all data collected to calculate the final Customer Success Report rankings. The overall Customer Success ranking is a weighted average based on 3 parts:

**Content Score** is affected by:

1. Total # of vendor generated customer references (case studies, success stories, testimonials, and customer videos)
2. Customer reference rating score
3. Year-over-year change in amount of customer references on FeaturedCustomers platform
4. Total # of profile views on FeaturedCustomers platform
5. Total # of customer reference views on FeaturedCustomers platform

**Market Presence Score** is affected by:

1. Social media followers including LinkedIn, Twitter, & Facebook
2. Vendor momentum based on web traffic and search trends
3. Organic SEO key term rankings
4. Company presence including # of press mentions

**Company Score** is affected by:

1. Total # of employees (based on social media and public resources)
2. Year-over-year change in # of employees over past 12 months
3. Glassdoor ranking
4. Venture capital raised

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**Customer Success Report Award Levels**

**Market Leader**
Vendor on FeaturedCustomers.com with substantial customer base & market share. Leaders have the highest ratio of customer success content, content quality score, and social media presence relative to company size.

**Top Performer**
Vendor on FeaturedCustomers.com with significant market presence and resources and enough customer reference content to validate their vision. Top Performer's products are highly rated by its customers but have not achieved the customer base and scale of a Market Leader.

**Rising Star**
Vendor on FeaturedCustomers.com that does not have the market presence of Market Leaders or Top Performers, but understands where the market is going and has disruptive technology. Rising Stars have been around long enough to establish momentum and a minimum amount of customer reference content along with a growing social presence.
2019 Customer Success Awards

Check out this list of the highest rated 3D Printing Solutions Software software based on the FeaturedCustomers Customer Success Report.

- 3D SYSTEMS
- Carbon
- Markforged
- materialise

- PROTOLABS
- stratasys

- ExOne
- formlabs
- MakerBot
- proto3000

- 3D PLATFORM
- 3YOURMIND
- fictiv
OVERALL BEST
OF 3D PRINTING SOLUTIONS SOFTWARE

BEST IN CATEGORY

Markforged
ABOUT MARKFORGED

Markforged is on a mission to unlock the next 10x innovation in design and manufacturing. They build an Industrial 3D Printing Platform to liberate designers and engineers from decades-old, slow part creation processes. NASA, Google, Ford, Amazon, Siemens and thousands of companies in 50 countries use Markforged to print same-day prototypes and produce stronger end-use parts than they did before. With Markforged, customers are able to ship 50X faster, spend 20X less, and build products that are 23X stronger. The Markforged platform includes a full ecosystem of 3D printers for metal, composite, and plastic parts; purpose-built metal & carbon-reinforced materials for strength and beautiful finishes; and cloud software for turning drawings into high-strength printing.

"The thing I’ve been most impressed with is just how bullet-proof the system is. We use these printers pretty heavily with no issues.”
Sage Aronson
Chief Executive Officer and Founder, Neurophotometrics

"The carbon fiber strength is really, really impressive. When you have a plastic part that feels and looks like a plastic part, but it has this internal strength of something much different, it sets everybody up for a shock.”
Sam Dicpetris
Engineer, Siemens Gas & Power, Orlando

"Compared to a traditional CNC, you can try more complicated shapes or take more design risks with the Metal X.”
Adam Gosik-Wolfe
Mechanical Engineer, Shukla Medical

"We had a 100% return on investment within six months of purchasing the printer.”
Emmanuel Simadiris
Research Engineer, Saint-Gobain

Customer references from happy Markforged users
VIEW ALL REFERENCES
ABOUT 3D SYSTEMS

3D Systems provides comprehensive 3D products and services, including 3D printers, print materials, on-demand manufacturing services and digital design tools. Its ecosystem supports advanced applications from the product design shop to the factory floor to the operating room. 3D Systems’ precision healthcare capabilities include simulation, Virtual Surgical Planning, and printing of medical and dental devices as well as patient-specific surgical instruments. As the originator of 3D printing and a shaper of future 3D solutions, 3D Systems has spent its 30-year history enabling professionals and companies to optimize their designs, transform their workflows, bring innovative products to market and drive new business models.

“’We chose Cimatron because it offered a complete integrated package with logical, menu driven progression through the various modules, enabling us to rapidly implement engineering changes and updates.’”

Dave Newman
Design & Engineering Leader, DLS Plastics

“The thing that holds me up the most when we are prototyping is when a part doesn’t come in as advertised. The 3D Systems parts for the G2 P51 came in as we asked for them, in the order in which we asked, on time. The prototype stayed on schedule and actually finished ahead of time, beating our projection by several days. This is the best...”

Jason Reddick
Production Manager, Confederate Motors

“We have been more than thrilled with CimatronE. When we design with CimatronE, the models are already done. We just pull them in and start programming against them. It’s taken two-three days of modeling out of the equation.”

Eric Wagner
Manager, Design Department, Vaupell

“There is no substitute for this type of visualization. It enables us to produce high-quality graphical output easily and quickly for detailed analysis, communication of results, and even marketing presentations.”

John Hart
Sports Engineering, British Skeleton Bobsledder
CARBON 3D

Carbon’s mission is to reinvent how polymer products are designed, engineered, manufactured, and delivered towards a digital and sustainable future. Based in Silicon Valley, Carbon brings together innovations in software, hardware, and material science to deliver industry-leading digital manufacturing solutions. With Carbon’s ground-breaking Digital Light Synthesis™ technology and broad family of programmable liquid resins, manufacturers can unlock new business opportunities such as mass customization, on-demand inventory, and previously impossible product designs. The Carbon Platform allows customers to build uniquely differentiated products while reducing waste and time to market. To learn more, visit www.carbon3d.com, like the Carbon Facebook page, or follow Carbon on Instagram and Twitter at @Carbon.

“It’s all about the materials and mechanical properties that we can achieve with Carbon’s technology. Traditional materials only provided about 50 percent of the mechanical properties we need to produce functional and final parts.”

Jerry Rhinehart
Delphi

“We knew additive manufacturing could offer us new paths in industrial tooling. Our experience with the oil reservoir demonstrated that Carbon’s process and materials offer fundamentally new applications and capabilities.”

Brian Lee
Director of R&D and Technology Solutions, Wilson Tool International

“The Carbon team helped us with print speed optimization, texturing, and design modifications to deliver a part that meets the needs of our internal customer.”

Jamie Cone
Engineer, Becton, Dickinson and Company

“Carbon's SIL 30 material offers an isotropic, smooth finish with the durability to withstand such action in the airway. As a result, we were able to develop a durable, flexible device that can support many different deployment techniques for pediatric stent placement.”

Robroy MacIver
Congenital Heart Surgeon, Children’s Hospital of Minnesota
ABOUT MATERIALISE

Materialise has over 25 years of experience in providing 3D printing services and software solutions for a variety of industries, including healthcare, automotive, aerospace, consumer goods, and art and design. With their open, flexible solutions and meaningful applications, they strive towards creating a better and healthier world driven by innovation.

“Materialise Magics, which is a part of the Materialise Magics 3D Print Suite, is a very helpful software in that it provides advanced STL repair tools for fixing our files. It also gives us more confidence to 3D print parts without any defects or deviations, leading to innovative, high-quality products for our customers.”

Yeole Hemkant
Senior Manager – ERC Prototype Manufacturing, TATA Motors

“Honeycomb structures helped us reduce the weight of several SLA molds by an impressive 42.38%! We're very pleased with the results. This feature is a prime example of Materialise's cutting-edge innovation.”

Alfredo Jijón
AM Specialist, Midwest Prototyping

“Materialise Magics is the ideal software to prepare jigs and fixtures for our automotive models for 3D Printing. The advanced automatic fixing tool handles the most challenging errors. The hollowing function and generation of structures are also extremely useful. The weight reduction of 40% of our jig loaders really has a big impact.”

Seong Jun Yu
Assistant Manager, SL Corporation

“i.materialise is more than just a production partner for us, it's really a technology partner. They allow us to keep track on what's new in 3D printing and 3D printing materials. This is really important for us to develop the right product.”

Martijn Joris
Co-Founder, Twikit
Protolabs is the world’s fastest digital manufacturing source for rapid prototyping and on-demand production. The technology-enabled company produces custom parts and assemblies in as fast as 1 day with automated 3D printing, CNC machining, sheet metal fabrication, and injection molding processes. Their digital approach to manufacturing enables accelerated time to market, reduces development and production costs, and minimizes risk throughout the product life cycle.

"[Protolabs] supports us by turning quotes around almost immediately with their outstanding web interface to track purchase requests and orders."

Michael Gron
Engineer, Jacobs Vehicle Systems

"Speed and flexibility - being able to deploy different manufacturing options - and a commitment to customer service - are the main reasons we use Protolabs."

Andy Homyk
Senior Engineer, HemoSonics

"Protolabs is a tremendous ally because they enable us to develop and iterate at a much higher speed. Sometimes, we use Protolabs as the manufacturer for a given component for the lifetime of the project because they are so great to work with."

Kevin Anderson
Mechanical Engineer, Google X

"Protolabs’ ability to tool domestically to aluminum and get us that quality of part that we get from injection molding but without committing to hundreds of thousands of parts really opened up our eyes."

Randy Hasson
Project Leader, Brunswick Corporation
ABOUT STRATASYS

Stratasys is a global leader in additive manufacturing or 3D printing technology, and is the manufacturer of FDM® and PolyJet™ 3D Printers. The company's technologies are used to create prototypes, manufacturing tools, and production parts for industries, including aerospace, automotive, healthcare, consumer products, and education. For 30 years, Stratasys products have helped manufacturers reduce product-development time, cost, and time-to-market, as well as reduce or eliminate tooling costs and improve product quality. The Stratasys 3D printing ecosystem of solutions and expertise includes: 3D printers, materials, software, expert services, and on-demand parts production.

“Being able to have a 3D printer like the J750 that’s repeatable and accurate with this full range of color and materials has afforded us the idea of being able to achieve this shot-by-shot customized animation.”
Brian McLean
Director of Rapid Prototype, LAIKA

“The Objet30 prints prototypes that closely simulates end products. The quality is such that you cannot distinguish between the models and the end products, thus enabling us to exhibit them at shows.”
Johan Vestberg
Project Manager, Top Notch Design

“FDM technology and ABS thermoplastics have been a great combination for us. They provide us with the efficient solution to help us optimize our design and improve market delivery time by 10 to 15 percent.”
Vinayak Raje
Head Designer, Bajaj Electricals

“We can observe finer details in the printed parts, identify design errors earlier and ensure best-in-class products for our customers in half the time and cost.”
Neeraj Jain
Founder, Labomed
TOP PERFORMERS
2019 TOP PERFORMERS

ExOne

formlabs

MakerBot

proto3000
ABOUT EXONE

ExOne, a global publicly-traded company, provides 3D printed systems and services utilizing binder jetting technology and industrial-grade materials for manufacturers in multiple industry segments. ExOne® systems are capable of directly printing functional parts in a range of metals and ceramics, as well as using an indirect process to print cores and molds for sand castings.

"ExOne gave our small business the ability to prototype and produce small runs of highly detailed parts at a fraction of the time and cost normally associated with this sort of production."

Ed Strange
Wicked Grips

"As a result of ExOne’s additive manufacturing expertise in the delivery of these samples, MiMtechnik was able to close an annual order for 600,000 fasteners, which is to be increased to 1.2 million in subsequent years."

Andreas Baumann
Technical Leader, MiMtechnik GmbH

"After all of our research on all of the 3D printer vendors in the world, we determined that ExOne printers are better and they have a very high-end technology, and very good print quality."

Yoya Fukuda
Kimura Foundry America

"Over the past several years, we’ve worked with ExOne on four binder jetting systems and we’ve made exceptional progress in enhancing this additive manufacturing technique."

Amy Elliott
Lead Researcher, Oak Ridge National Laboratories
ABOUT FORMLABS

Formlabs designs and manufactures powerful and accessible 3D printing systems. Headquartered in Boston with offices in Germany, Japan, and China, the company was founded in 2011 by a team of engineers and designers from the MIT Media Lab and Center for Bits and Atoms. Formlabs is establishing the industry benchmark for professional 3D printing for engineers, designers, and manufacturers around the globe, and accelerating innovation in a variety of industries, including education, dentistry, healthcare, jewelry, and research. Formlabs products include the Form 2 SLA 3D printer, Fuse 1 SLS 3D printer, Form Cell manufacturing solution, and Pinshape marketplace of 3D designs. Formlabs also develops its own suite of high-performance materials for 3D printing, as well as best-in-class 3D printing software.

“The Form 2 has enabled our lab to transition our custom hearing product manufacturing from manual to digital. 3D printing custom hearing products allows for greater control and consistency, and with the quality and affordability of the Form 2, we see potential to ramp up production going forward.”

Paul Thorpe
Lab Manager, Universal dB

“Castable Wax Resin fits seamlessly into my existing workflow and complements my milling machine perfectly. It allows me to print removable partial denture patterns for casting or even crown and bridge patterns for pressing. The material burns out cleanly and is easy to work with.”

Stephan Kreimer
Master Dental Technician, Kreimer Dentallabor GmbH & Co. KG

“Formlabs tools are game changing. The Form 2 is my first line when I want a rapid, high resolution print and is in every sense my right-hand printer and resides in my office. The interface allows individuals in my lab to quickly become comfortable with operations and the versatility of the material choices has allowed for tremendous innovation for our...

Dave Zopf
Assistant Professor, Michigan Medicine

“As a pioneer in desktop 3D printing, Formlabs is the perfect partner to help us grow in 3D printing. When it comes to 3D printing technology for jewelry professionals, Formlabs is the leader in this space.”

Scott Petrillo
Vice President of Sales, Gesswein

Customer references from happy Formlabs users

VIEW ALL REFERENCES
ABOUT MAKERBOT

MakerBot strives to redefine the standards for 3D printing for reliability, accessibility, precision, and ease-of-use. Through this dedication, MakerBot has one of the largest install bases in the industry and also runs Thingiverse, the largest 3D printing community in the world. They believe there's an innovator in everyone, so they make the 3D printing tools that make your ideas matter. Discover innovation with MakerBot 3D printing.

“The design process is not linear. What’s great about MakerBot is that you can insert it at any step of the process and it’ll help you continue to evolve your idea.”
James Krause
Director of Industrial Design, Canary

“3D printing with MakerBot allows us to iterate and try different ideas. Before, if we’re going to pay $600 for a blister pack, we want to make sure that’s the final one. Now we can try completely different blisters because it’s not that much more work for us if we’re already doing it.”
Anton Ljunggren
Director of Design, Biolite

“Method’s accuracy is excellent. We’ve put it to the test by printing even the tiniest parts, and every time, they’ve come together seamlessly.”
Albert Kwak
Industrial Designer, Smart Design

“The quality of [3D prints] we’ve been getting on Method have been top notch, as much as we would expect from a [3D] printer in the $50k range.”
Don Lehman
Head of Product Design, Starry

Customer references from happy MakerBot users

VIEW ALL REFERENCES
ABOUT PROTO3000

The Proto3000 team helps companies leverage the transformative power of advanced manufacturing with industry-leading additive manufacturing and metrology solutions. Their portfolio of products and services address the growing challenges faced in design and manufacturing, and through partnering with their team, they can together address these challenges across the entire product development life cycle.

“By harnessing Stratasys additive manufacturing for tooling and prototyping, we are enjoying both time and cost savings, among other benefits, all while simultaneously preparing ourselves for the future.”

Rachel Trimble
Additive Manufacturing Polymer Specialist, GKN Aerospace

“We were particularly impressed by the ability of this system to quickly produce highly detailed, accurate models with minimal office clean-up.”

Rijk Rietveld
Partner, Rietveld Architects

“Stratasys additive manufacturing solutions represent a real game changer because they are allowing us to save time and cost within our composite part production process without compromising part quality or performance.”

Rick Heise
Swift Engineering

“The reduction in the time and cost of proposing new designs has enabled us to increase the number of product development projects by a factor of five without increasing our staff. We can respond more quickly to customer requests, which increases the odds of getting the order.”

Dominic DiBlasio
Prototype Manager for Vehicle Integration, Magna Closures
ABOUT 3D PLATFORM

3D Platform is the trusted global leader in industrial-strength, large-format 3D printers. Based in Roscoe, Illinois, USA, the entire 3D Platform team is focused on driving advancements in technology to innovate, design, and build next-generation equipment for additive manufacturing. Their global distribution network supported by Certified Service Providers has helped them deploy more large-format, open-market 3D printers than anyone else.

“3D Platform provided a versatile, large-format 3D printer that helped us with our materials research and AFO printing. We were able to immediately print a full-scale proof of concept, and the open platform software capabilities allowed us to prepare a print from a doctor’s 3D scan of a patient’s leg.”

McKenzie Horner
Gonzaga University

“This new way of working, which combines our traditional know-how with state-of-the-art technology, allows us to go further in our research and development activity, and to reduce our manufacturing time.”

Francois-Xavier Jozan
Ridoret Group

“3DP responds quickly and is able to help resolve any 3D printing difficulties that come up.”

Kevin Friedrich
Technician, Progress Rail

“To exercise that kind of innovative thinking while working with an expert company was a great experience and opportunity for the students.”

Simon Leigh
Associate Professor of Engineering, University of Warwick
ABOUT 3YOURMIND

3YOURMIND digitizes Additive Manufacturing processes to make industrial 3D printing efficient, maximize 3D machine utilization and spread adoption throughout organizations. The future of production innovation is linked to efficient Additive Manufacturing. Their digital platforms eliminate the current barriers that are slowing the adoption of AM across every sector of manufacturing. 3YOURMIND directly partners with industry leaders (DAX 30 companies) to identify and respond to specific demands.

"Offering state-of-the-art digital solutions for our customers is a key to success - 3YOURMIND is a great partner for that. By integrating their 3D-printing services into our portfolio we deliver value added services for the supply chains of our customers.”

Erik Wirsing
Head of Innovation, DB Schenker

"3YOURMIND solves a huge problem in bringing additive manufacturing to the broad mass. With 3YOURMIND, 3D-data is analysed and optimised for printing in a matter of seconds. This saves a lot of time and money. A tremendous additional benefit for the customers is the direct integration into the CAD programs for streamlined workflows.”

Hans Langer
Chief Executive Officer, Electro Optical Systems

"Keeping our member companies at the forefront of industrial production is the most important service we can provide. That is why working with 3YOURMIND to provide these medium-tier access to trusted leading 3D Print Services is so crucial. It allows them to compete directly with the largest companies on delivery time and production quality.”

Norman Koerschulte
Rapid3D

"The implementation of additive manufacturing software solutions into our production lines has notably increased the company's efficiency. 3YOURMIND supports us with their expert knowledge and their innovative products.”

Stefan Bähr
ContiTech Schlauch GmbH
ABOUT FICTIV

Fictiv is transforming how teams design, develop, and deliver the next generation of hardware products. Their platform seamlessly connects hardware teams with manufacturers, to help companies get to market faster. Since its founding in 2013, Fictiv has helped innovators like Facebook, Tesla, and IDEO take ideas from prototype to production.

“Fictiv has great pricing, great communication and they provide you with everything you need in terms of manufacturing and design feedback.”

Dzmitry Varhan
Hardware Lead, Lampix

“To be able to just upload a file online with Fictiv and then get fast, high-quality CNC turnaround in one shot is amazing.”

Patrick Chandler
Co-Founder, Hykso

“Since Fictiv handles the quoting for their customers, I get to dedicate more time to revenue-generating work like machining parts.”

Brian Kippen
Owner, KaD Models & Prototypes

“I love the web portal — it’s quick, simple, and easy-to-use.”

Preston Fung
R&D Engineering Manager, Lim Innovations