Bring Your Idea to Life with Kings
Leading-edge

Industrial 3D SLA Printers

Shenzhen Kings 3D Printing Tech. Co., Ltd

www.kings3dprinter.com

CONTENTS

01

Kings 3D

1.1|Overview

1.2|Certificates & Honors

1.3|Part of Our Partners

1.1 Kings SLA Printer—Overview

2008 Shantou Kings was established as a prototyping company (3D printer user).

2015 Shenzhen Kings was established to produce and sell industrial SLA 3D Printers.

2016 Kings exported the first batch of printers to Portugal and started to go global.

2018 Jiangxi Kings (self-owned factory) was built as a large-scale and standard 3D printer production base.
Kings officially started to develop and produce 3D printing materials.

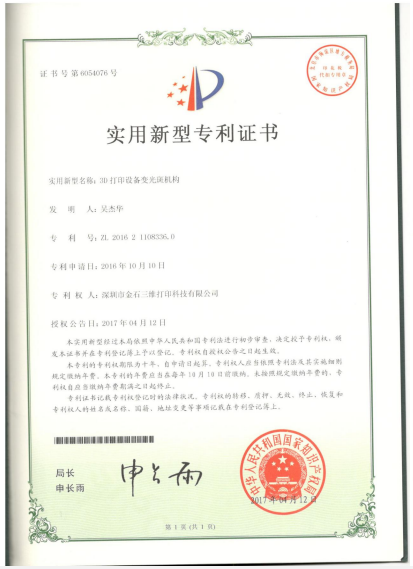
2021 Kings 3D developed the largest industrial SLA printer Kings 2700Pro (2700*900*800mm) in China.

2022 Investment from Morgan Stanley and Guosen Capital (State-owned)

2023 Nearly 5000 Kings printers (SLA, SLM, FGF and SLS) have been sold into more than 30 countries, including Germany, UK, France, Portugal, Italy, Turkey, UAE, Japan, Korea, Australia, USA, Brazil and etc.

1.2 Kings SLA Printer—Certificates & Honors

KINGS has obtained more than 100 patents, including software copyrights and invention patents etc



1.3 Kings SLA Printer—Part of Our Partners

Kings 3D Printing

Automotive



Aerospace

Appliance

Footwear



Scientific

02

SLA Equipment

2.1 SLA Technology

2.2 Product Show

2.3 Accessories

SLA Technology

SLA

SLA is an additive manufacturing technology that works by focusing ultraviolet laser onto a vat of photopolymer resin. The resin is photo-chemically solidified and a single layer of desired 3D object is formed, the process of which is repeated for each layer until the model is completed

Accuracy: 0.05mm，360°all-dimensional printing

2.2 Product Show—The Two Best Sellers

The Best SLA Seller—Kings 600&800Pro

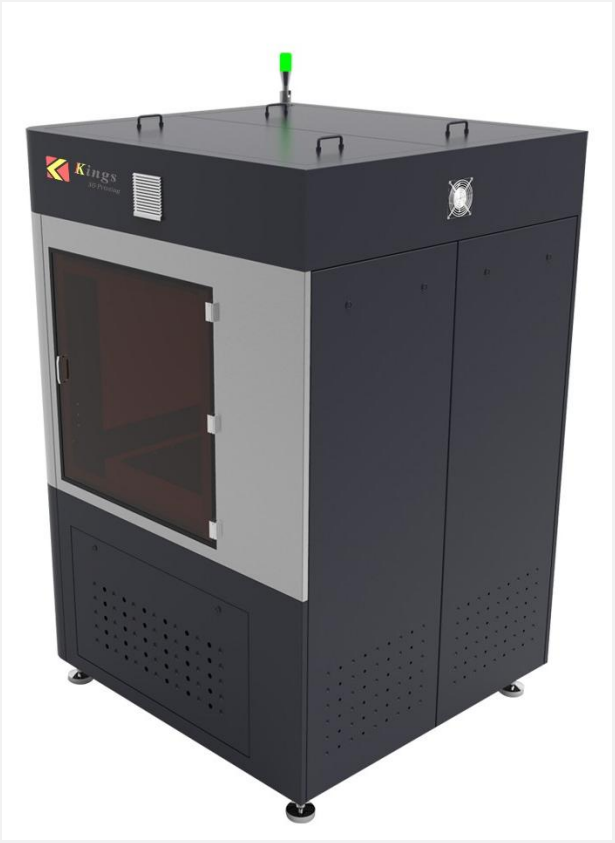
Kings800Pro

Parameter

- KINGS 800Pro Large Prototype Printer
- Max Printing Size：800*800*500mm
- Machine Size：140cm(W)*149cm(D)*247cm(H)
- Rated Power Consumption：1.8KVA
- First Tank Resin：500kg

Parameter

- KINGS 600Pro Shoe Model Printer
- Max Printing Size：600*600*400mm
- Machine Size：118cm(W)*129cm(D)*224cm(H)
- Rated Power Consumption：1.5KVA
- First Tank Resin：about 240kg



Kings600Pro

2.2 Product Show— The Largest SLA Printer

The Largest SLA Printer in China—Kings 2700Pro

Kings2700Pro

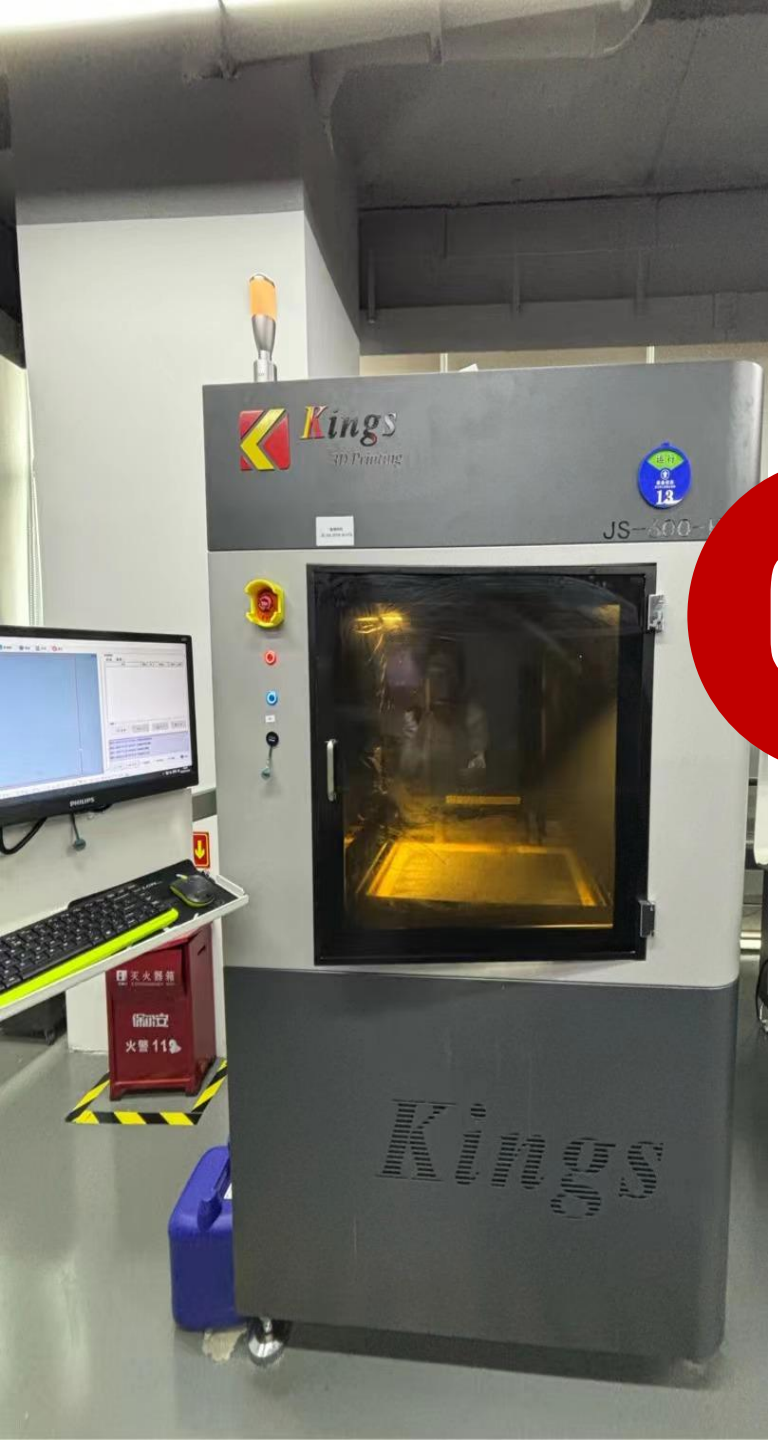
Parameter

- Kings 2700Pro SLA 3D Printer
- The Type of Kings 3D Printer: SLA 3D Printer 2700Pro
- Max Printing Size:2700mm(X)*900mm(Y)*800mm(Z)
- Machine Size:360cm(W)*205cm(D)*270cm(H)
- Rated Power Consumption:3.0KVA
- Machine Weight:3600kg
- First Tank Resin:1950kg

Kings 3D Printing

Accessories included

No.	ITEM	QUANTITY	UNIT
1	First tank of resin	80-2600	kg
2	Dehumidifier	1	set
3	UV solidifying box	1	set
4	Stainless steel container	1	set
5	UPS	1	set
6	Tool box	1	set



03

Main Advantages

3.1 Main Advantages

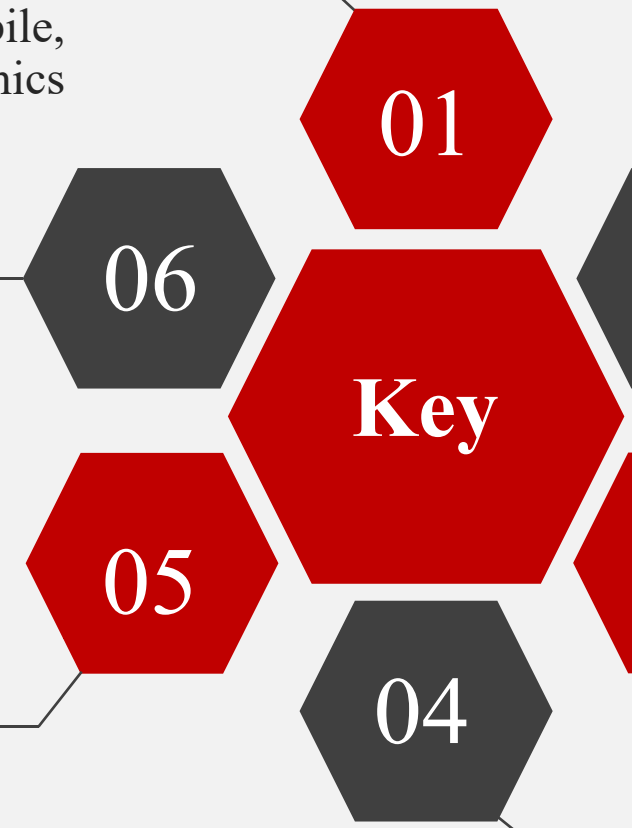
3.2 SLA Printing VS CNC machining VS Man-made

3.3 SLA Printer VS Desktop SLA Printer VS FDM Printer

3.1 Main Advantages

Kings 3D Printing

Why Kings SLA printers?



Customized Software

Prototyping, automobile, shoe, ceramics

Fast Printing Speed

Variable beam printing makes Kings 20-40% faster compared to peers

Quick Aftersales

24 hours online

Excellent Stability

Optimization in full marble structure and customized software parameter packages

Various Self-R&D Materials

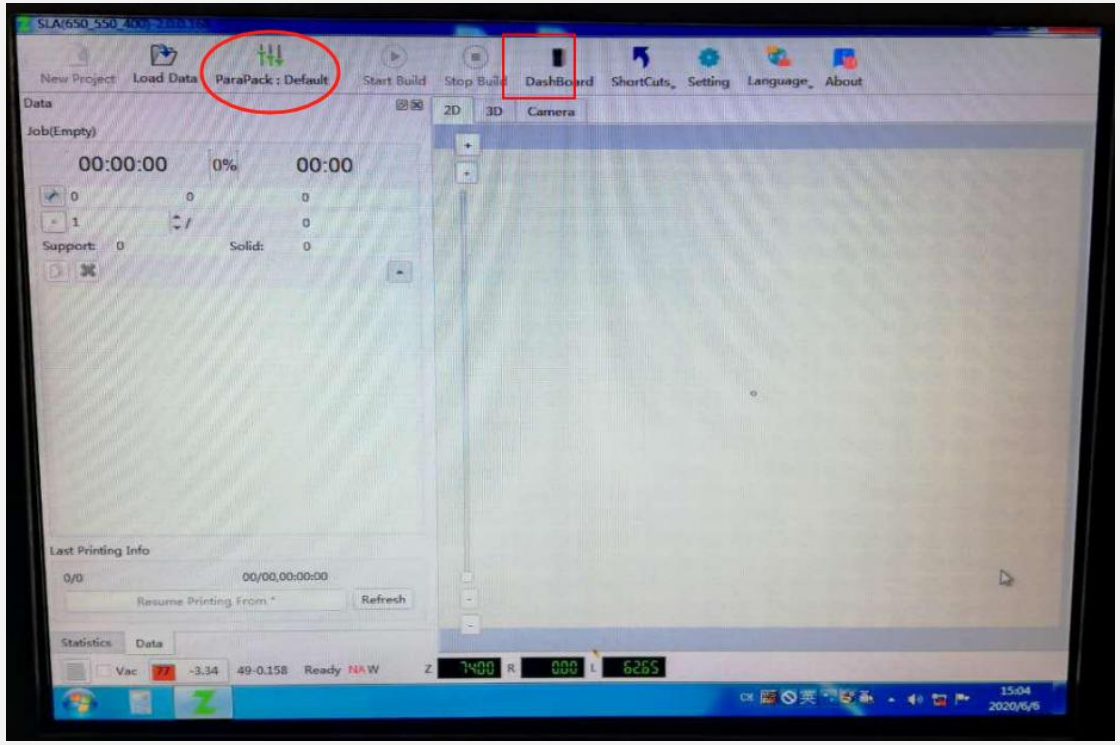
More choices and more affordable resin

Large Printing Size

Large size is the touchstone of core technology of a company

Kings 3D Printing

1. Customized machine control software



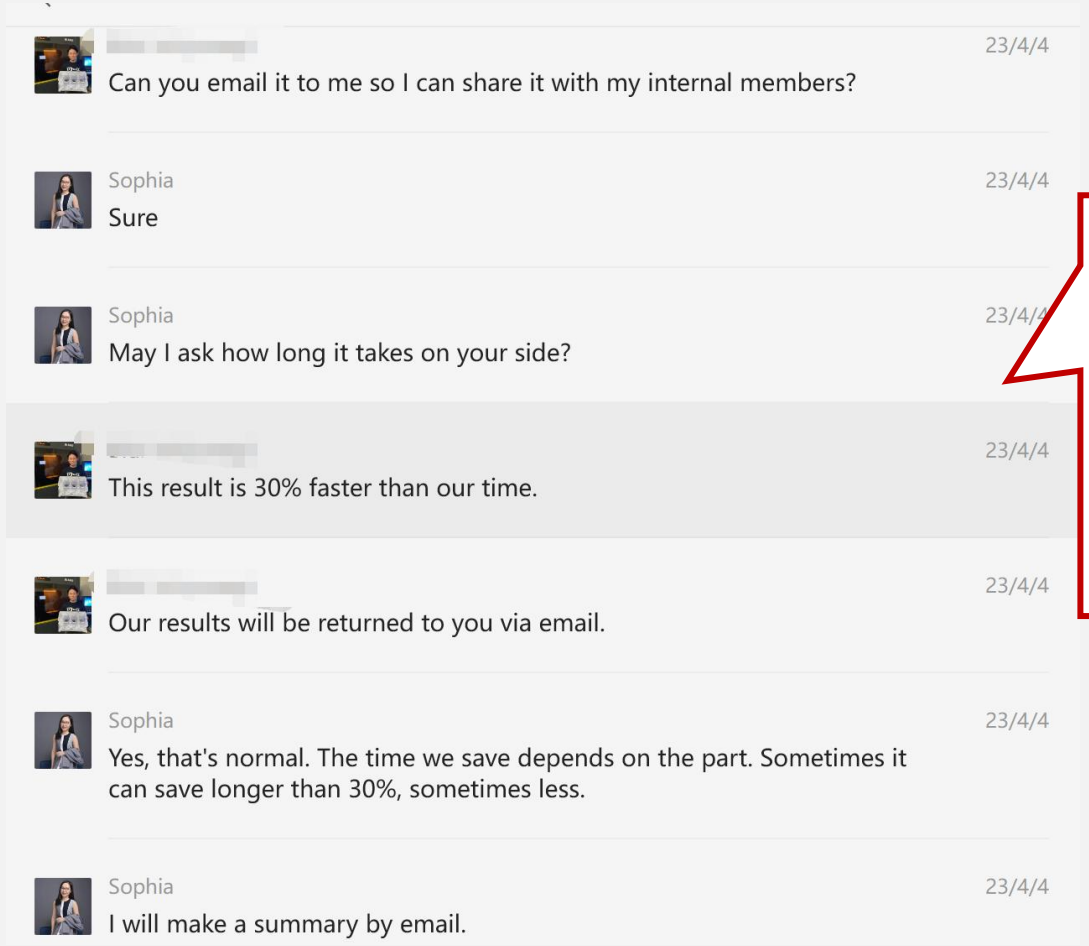
- Different parameter package for different industry
- Automatic identifying up-skin and down-skin printing directions with differentiated parameters
- Language can be customized according to clients needs

KS Builder

3.1 Main Advantages

Kings 3D Printing

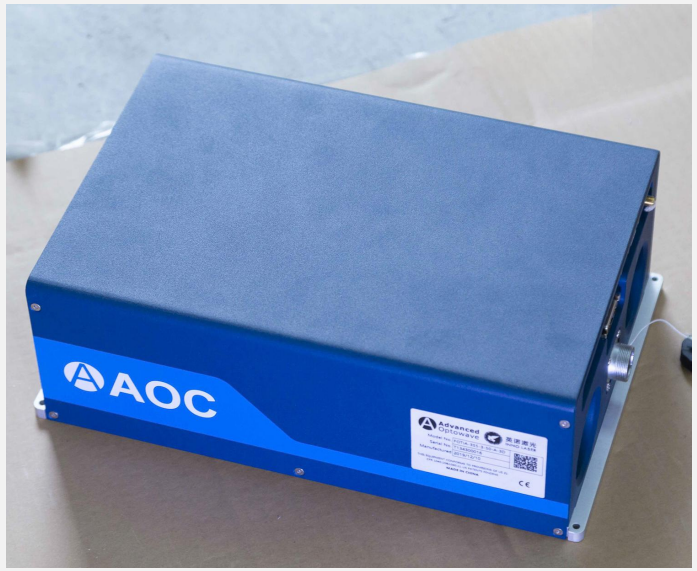
Fast Printing Speed



- Intelligent high-speed scanning systems: 15-18m/s
- Variable laser spot and variable power: 3rd generation
- Optimized control software: over 5000+ users in market

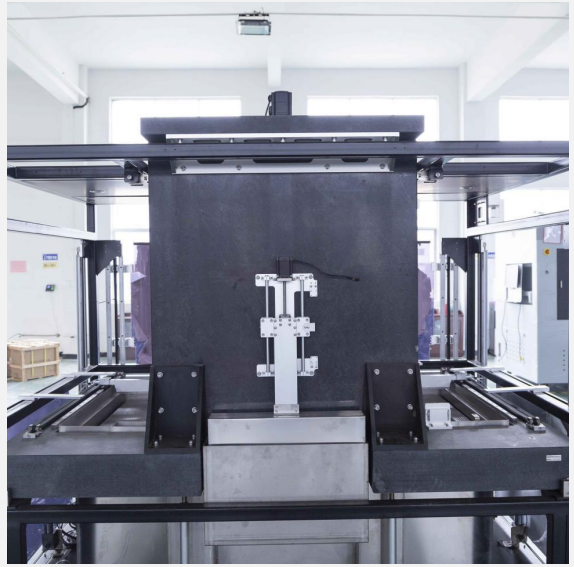
Kings 3D Printing

3. Excellent printing stability

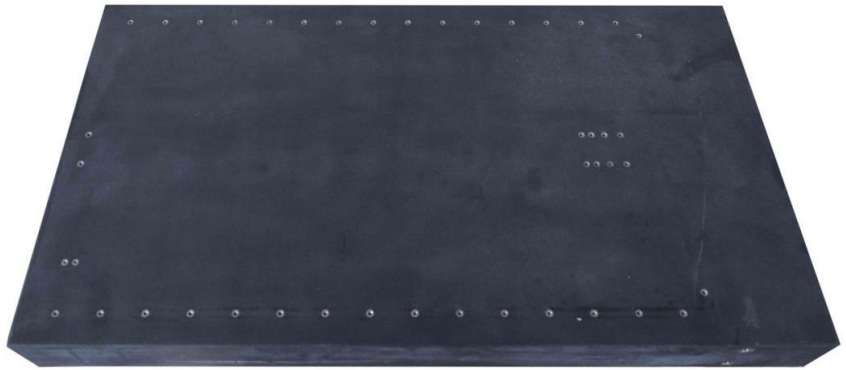


Optowave laser from US Brand

Scanlab galvanometer



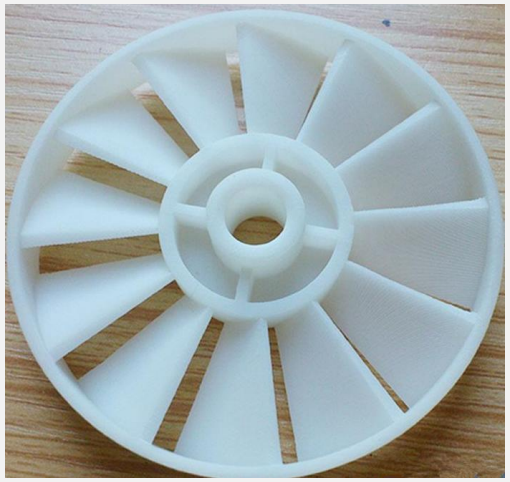
Marble elevator holder



Marble scanning system base(on the printer top)

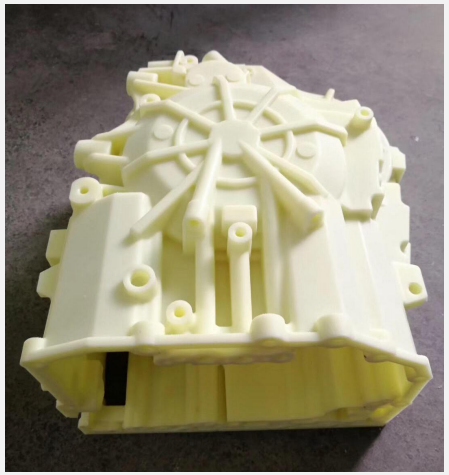
Marble recoater frame

3.1 Kings self-developed resin



KS408A
High accuracy
Fine surface textures
Most popular resin

White ABS-like resin



KS608A
Good mechanical property
High toughness and temperature resistence
Widely used in automotive industry

Light yellow ABS-like resin

KS158T
generally for the printing of bottles, tubes and other lighting components

Transparent PMMA-like resin

KS908C
Widely used in shoe industry
Can easily see the printing details

Brown ABS-like resin

KS168C
Widely used in investment casting

Clear resin

KS198S
Uesd for shoe prototype and other rubber parts

White rubber-like resin

3.2 SLA Printing VS CNC machining VS Man-made

	3D printing	CNC machining	man-made
Capacity	One-stop molding, batch printing	Multiple molding, single processing	Multiple productions, high failure rate
Molding	360° printing with any structure	simple structure	360° printing with any structure
Material utilization	Additive manufacturing, high utilization	Reduced manufacturing, high waste rate	Reduced manufacturing, high waste rate
Develop time	1-3 dyas	7-30days	1-6 months
Worker	one person can operate many machine, just 3 days to learn	One operator can watch max 3 machines, and need 6+ month training	experienced worker
Environment	No noise, Eco-friendly	Strong vibration, high noise, dust pollution	with noise and polltion
Cost	Costs continue to decrease	Material cost continue to increase	Labor cost and material cost continue to increase
Tend	Bright future	weeded out gradually	weeded out

3.3 SLA Printer VS Desktop SLA Printer VS FDM Printer

Kings 3D Printing

	Industrial SLA	Desktop SLA
Size	Wide variety of sizes with printing sizes from 300*300*350mm-2700*900*800mm	Usually small size with small printing sizes
Upside down or downside up	The part emerges the correct way up from a deep resin tank with the resin level gradually dropping	The part emerges upside down out of the resin tray and is gradually pulled up
	Fixed part and is not designed to be replaced	The resin tray of desktop printers will only last a few months before needing to be replaced,
Precision	Print the same part again and again and achieve the same result every single time without fail; Consistent and dependable, Beam size is also generally smaller	Print the same part multiple times and each one will be slightly different
Materials	With a much greater selection of materials, offering a wide range of mechanical properties. And can use the third-party resins	Limited to using the manufacturer's own resin
Time	Faster speed, achieve a far superior finish and less pre-processing; batch produce multiple parts	A good bit slower
Portable vs. fixed	Fixed	Portable
Complexity	Require a significant degree of training to be able to operate.	Can read through the instructions and get started. Very easy to operate

3.3 SLA Printer VS Desktop SLA Printer VS FDM Printer

Kings 3D Printing

	STEREOLITHOGRAPHY (SLA)	FUSED DEPOSITION MODELING (FDM)
Resolution	★★★★★	★★☆☆☆
Accuracy	★★★★★	★★★★☆
Surface Finish	★★★★★	★★☆☆☆
Throughput	★★★★☆	★★★★☆
Complex Designs	★★★★☆	★★★☆☆
Pros	Great value High accuracy Smooth surface finish Range of functional applications	Fast Low-cost consumer machines and materials
Applications	Functional prototyping Patterns, molds, and tooling Dental applications Jewelry prototyping and casting Modelmaking	Low-cost rapid prototyping Basic proof-of-concept models
Materials	Varieties of resin (thermosetting plastics). Standard, engineering (ABS-like, PP-like, flexible, heat-resistant), castable, dental, and medical (biocompatible).	Standard thermoplastics, such as ABS, PLA, and their various blends.

04

Applications

4.1 Footware

4.2 Ceramics

4.3 Automative

4.4 Medical

4.5 Craft Gifts, Jewelry

4.6 Animation

4.7 Architectural

4.8 Sculpture

4.1 Footware

3D printing shoe model for testing appearance and structure (sla hard material)

3D printing shoes model for try on (sla soft material)

3D printing shoe sand-mold for casting iron mold

3D printing shoe mold for batch production

Finished sole

Kings 3D Printing

3D printing shoe model for testing appearance and structure

360 ° all-dimensional printing, the lines, edges and corners of the shoe mold is clear.

Low power consumption, and short printing time.

3D printing shoe sand-mold for casting iron mold

3D printed shoe molds can effectively replace CNC-carved wooden molds. The molds made by sand casting have better textures and patterns.

3D printing shoe mold

Modelling

Core-making

mold casting

Kings 3D Printing

3D printing shoe mold for batch production

The molds produced by 3D printing can be directly used in the production of finished shoe soles. It can be used for plastic injection, PU and cold-pressed insole molds. It is not suitable for hot-pressed rubber, molded EVA and injection EVA. Generally, it can produce 10000 pairs of parts.

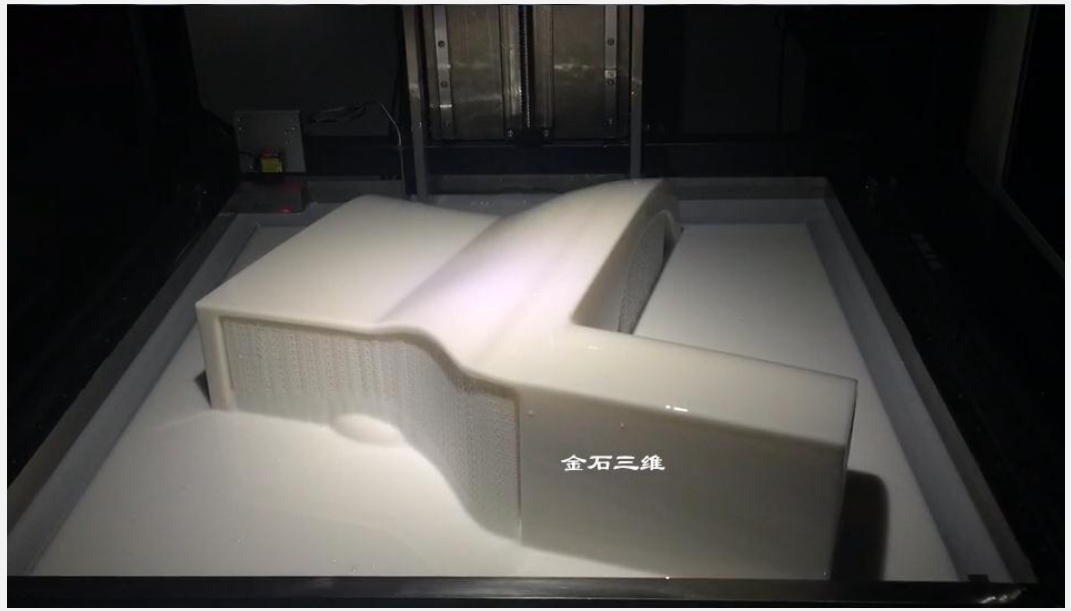
3D printing Finished sole

In the future, everyone can customize their own 3D printed shoes. The sole structures will be more in line with the personal sizes, and at the same time, be more lightweight and comfortable. For example, the hollow structure, used in sport's shoes, will have better shock absorption and rebound effect.

Kings 3D Printing

3 ways of ceramics prototype making

Man-made



3D Printing

CNC Machining

Kings 3D Printing

50 times more efficient

3D printed resin molds can be directly used to make plaster molds, simplifying the ceramic production process. Products that traditionally require 4-6 months now can be completed in 3-7 days, which increases efficiency by 50 times!

Save labor cost and no pollution

Prototype

Mold Core

Case mold

4.3 Automative

Kings 3D Printing

001 Automobile Prototype

002 Auto parts prototype

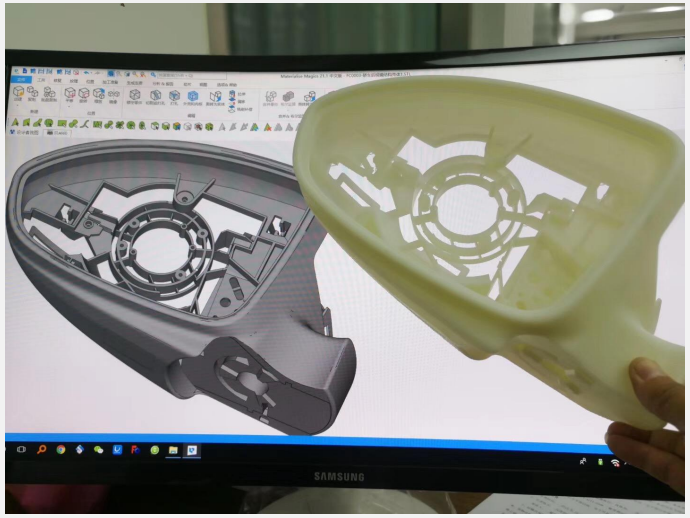
003 Automobile rapid tooling

004 Auto parts testing sample

4.3 Automative

Kings 3D Printing

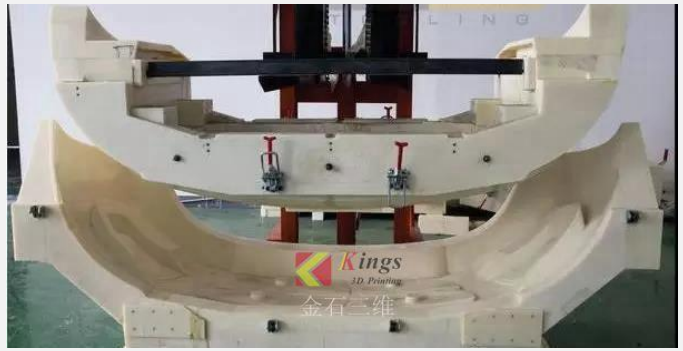
Improve the R&D efficiency of automotive products



With KING'S large-size 3D printer, you can print 1: 1 automobile bumpers, grilles, dashboards, and other parts. This effectively reduces the errors and waste of labor costs caused by splicing and also improves the development efficiency of automotive products by more than 5 times.

Rapid Tooling and Small-batch Production

1、3D Prototype Printing



2、Make Silicon Mold according to the 3D printed prototype

3、Make finished products with the silicon mold

4、Finished products

3D Printing Molds VS Steel Molds

Mold Type	Production Cycle	Mold Cost
3D Printing Mold	8 days	20000 USD
Steel Mold	40 days	120000 USD

Kings 3D Printing

Orthopedic preoperative model

3D model is reconstructed according to the patient's CT / MRI data, and a 1:1 physical model help with disease diagnosis, preoperative surgical plan design, and preoperative surgical operation.

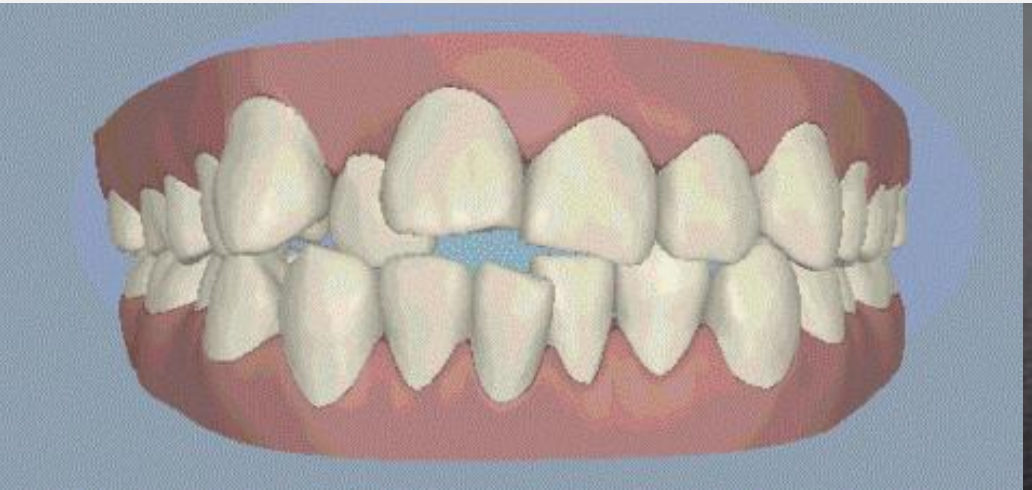




Kings 3D Printing

Orthodontics

High-precision dental model can be made through 3D printing;
Personalized invisible braces for different patients can be produced efficiently.

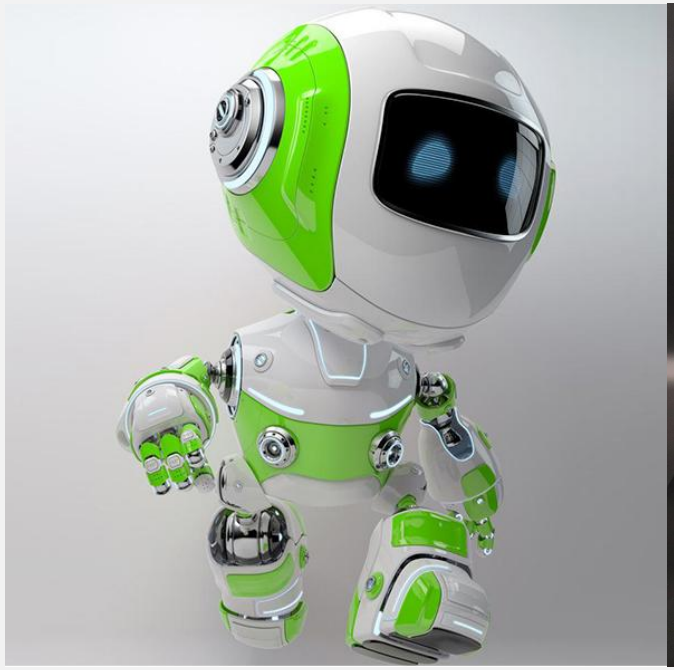


4.5 Craft Gift, Jewelry

1. High-precision craft gift sculpture
2. Rapid preparation of craft gifts
3. Three-dimensional digitization of large-scale engraving works

4.6 Animation

1. Stop-motion animation
2. Character and scene design
3. The development of cartoon derivative products



4.7 Architecture

Auxiliary design: quickly restore design drawings and assist design proposal verification.

Quick design model: quickly print out the building display model and show the building plan to customers.

Save the time of building scale model: greatly reduces the time required to create a scale model.

Friendly for modification: gives you more flexibility in modifying the models. If the customer proposes any changes, you can simply edit it on the file .

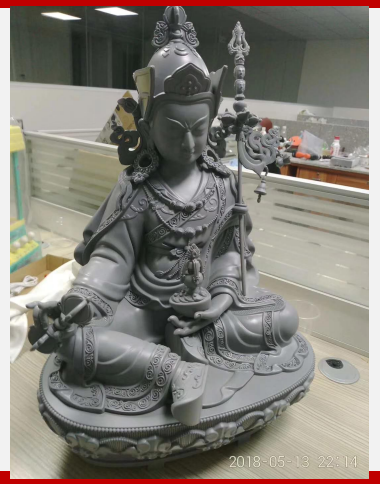
4.8 Sculpture

Kings 3D Printing

Prototype

Confirm appearance

Castingcopper



Replace the clay sculptures

Large Decorations

Indoor/Outdoor decorations

Cultural Relics Repair

Combine 3D scanning technology to repair cultural relics