Silicone 3D Printing Pioneer

San Draw Inc

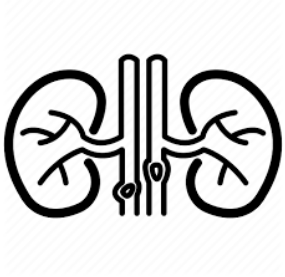
FAM Technology

FAM™ stands for Fluid Additive Manufacturing, and it is an additive manufacturing process specially designed for RTV silicone and liquid silicone rubber (LSR). It's world's first silicone 3D printing technology and has been patented in many countries.

Advantages

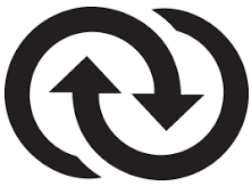
Multiple Silicone Selections

We develop silicones with different features to apply to your versatile applications, including high elasticity, life-like touch, high strength, and high rigidity.



Bio-compatibility

Many of our silicones are certified by ISO10993, making it suitable for medical device, medical simulator, wearable, and prosthesis.



Bridging prototyping & mass production

We develop a series of LSR not only suitable for 3D printing, but also usable in liquid injection molding process, making a seamless transition from prototyping with S200 printer to mass production with injection molding machine.

3D Printing Silicone

Our Material

We have the broadest material selection of 3D printing silicone

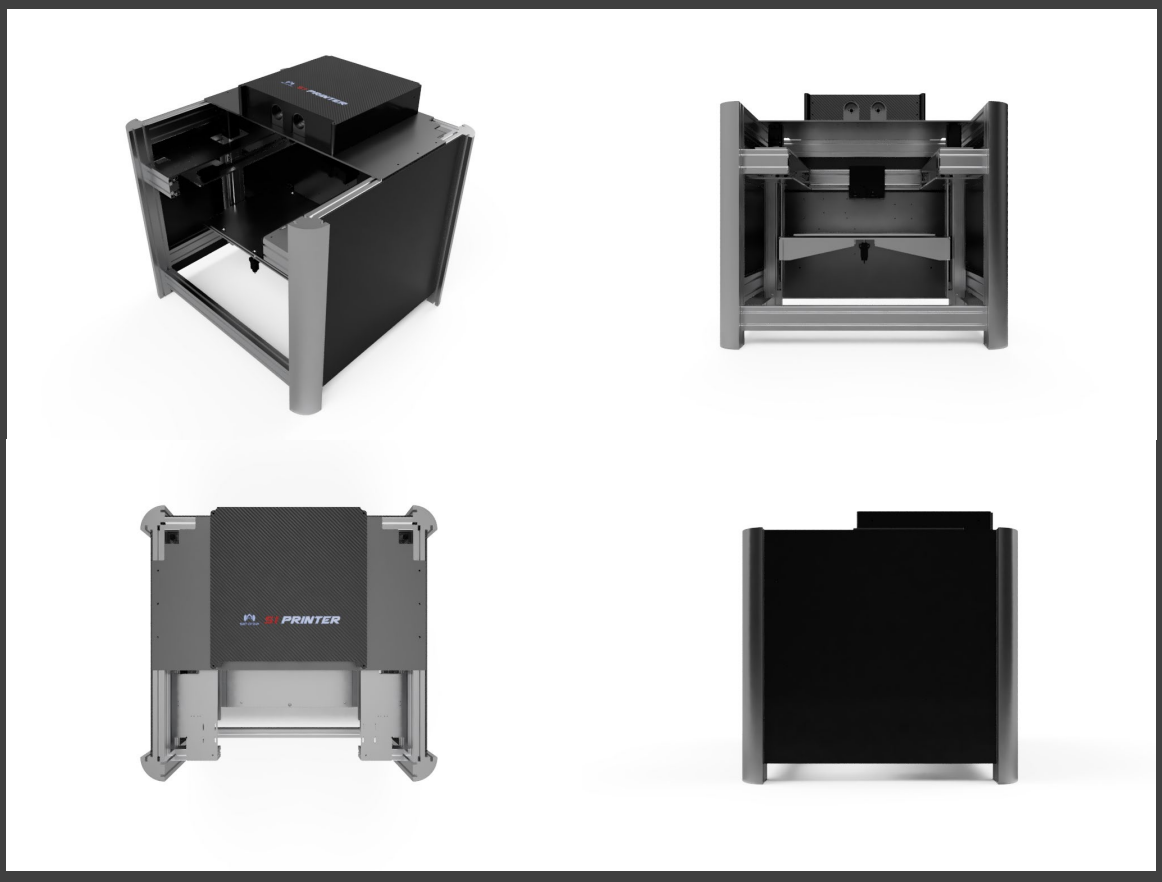
SIL 18 **High Elasticity**	**SIL 28** **Life-like Touch**	**SIL 50** **High Strength**	**SIL 70** **High Rigidity**
One-part	One-part	Two-part	Two-part
RTV	RTV	LSR	LSR
Color: Transparent Red Yellow	Color: Transparent Skin	Color: Transparent	Color: Transparent
Hardness: 18, Shore A	Hardness: 28, Shore A	Hardness: 50, Shore A	Hardness: 70, Shore A
Tensile Strength: 200 psi	Tensile Strength: 270 psi	Tensile Strength: 1,750 psi	Tensile Strength: 1,550 psi
Tear Strength: 4 kgf/cm	Tear Strength: 5 kgf/cm	Tear Strength: 40 kgf/cm	Tear Strength: 25 kgf/cm
Elongation: 800 %	Elongation: 300 %	Elongation: 700 %	Elongation: 460 %
		Compatible with liquid injection molding machine.	Compatible with liquid injection molding machine.

S100 Silicone 3D Printer

Dimension (LxWxH): 70 cm x 70 cm x 70 cm	**Weight:** 60 kg
Build Volume (LxWxH): 23.5 cm x 27 cm x 10 cm	**Layer Thickness:** 0.05~0.2 mm
Max Flow Rate (mL/hr): 10	**Nozzle Diameters (mm):** 0.4
Technology Fluid Additive Manufacturing	**Power Requirements** 110/220 VAC 60Hz; 0.5 kW
Material Selection: **SIL 18, SIL 28**	**Type of Silicone: RTV**
Automatic Nozzle Calibration	**Industrial Roller with Brake**

S200 Silicone 3D Printer

Dimension (LxWxH): 70 cm x 70 cm x 70 cm	**Weight:** 60 kg
Build Volume (LxWxH): 23.5 cm x 27 cm x 10 cm	**Layer Thickness:** 0.05~0.2 mm
Max Flow Rate (mL/hr): 10	**Nozzle Diameters (mm):** 0.4
Technology Fluid Additive Manufacturing	**Power Requirements** 110/220 VAC 60Hz; 0.5 kW
Material Selection: **SIL 18, SIL 28, SIL 50, SIL70**	**Type of Silicone: RTV, LSR**
Automatic Nozzle Calibration	**Industrial Roller with Brake**

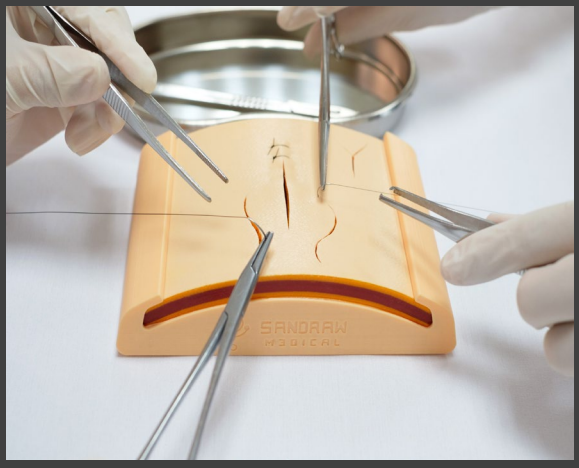


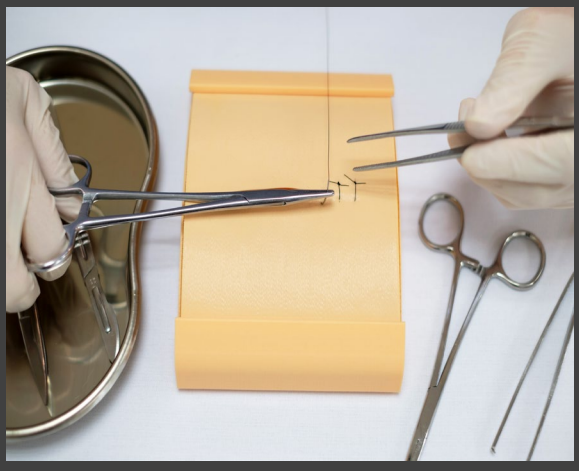
Application — Clinical Skill Trainer

S100 is the first silicone 3D printer used in commercial production.

Suture Training Kit

Human skin is multi-layered with different hardness and touch, making it extremely challenging to replicate. S100 prints SIL18 and SIL28 in layers with different internal structures to make it an ultra-realistic and durable suture pad.



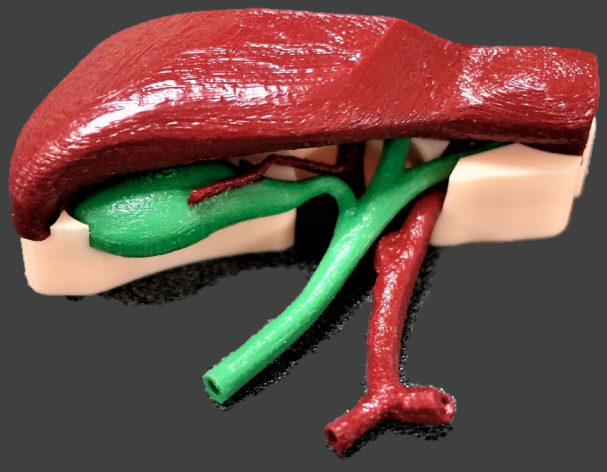


Surgery Simulation Model

SIL18 and SIL28 present highly similar hardness and density to human muscle, so it’s suitable to be used as the material for simulation model, delivering super realistic touch.

Liver Model

Gallbladder Model



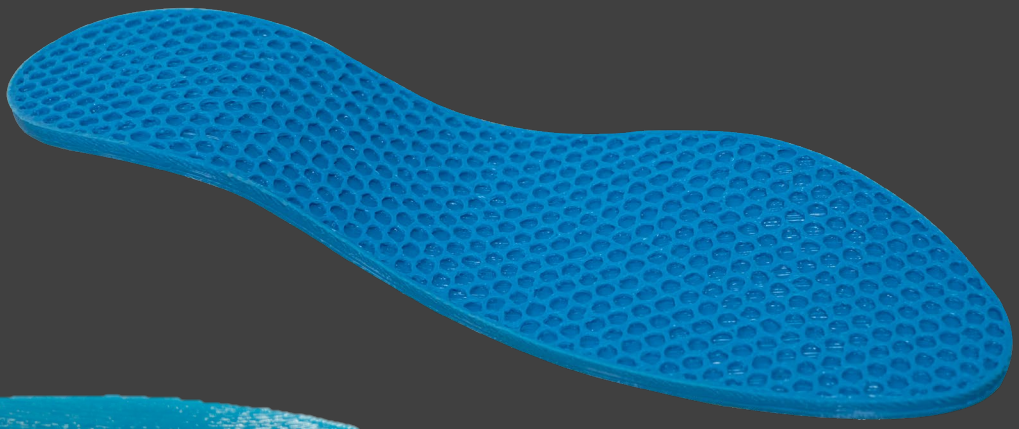
Application — Human Implant

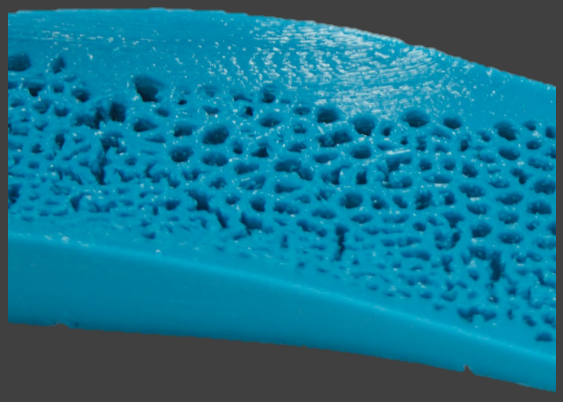
Silicone is known for its great biocompatibility, and it is commonly used in human implants. S100 and S200 are able to print short-term and long-term implantable grade silicone, creating new business opportunity for you.

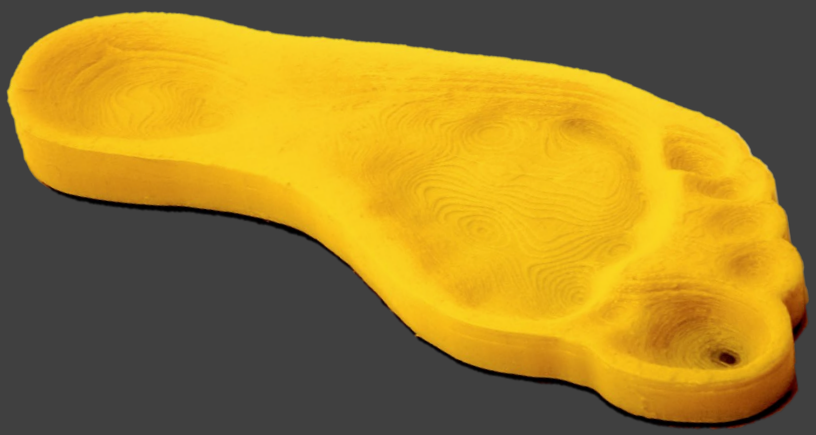
Facial implants

Application -- Shoe

The user scenario of a pair of shoes is very challenging, and it faces thousands of temperature and loading changes. Midsole is the key to comfort and functionality of shoes, and S100 and S200 are able to print midsole in intricate designs, achieving better functionality and weight reduction.







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