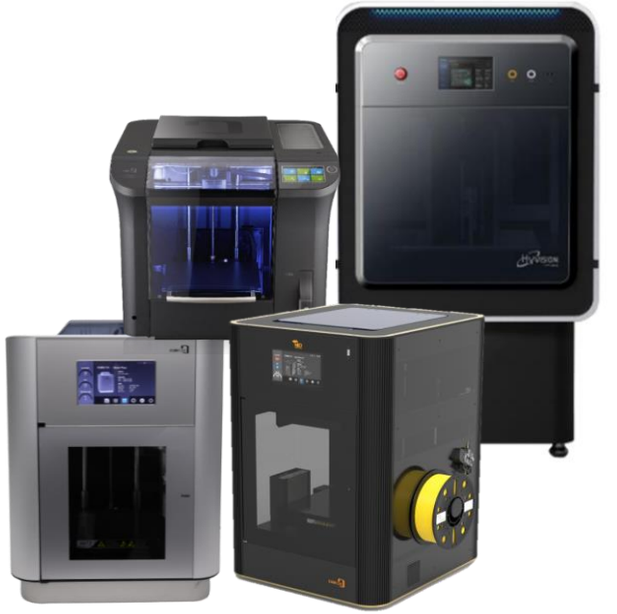
CUBICON | 2021 Company Profile and Business Proposal

Jul. 2021



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CUBICON

About Us

- CI & Philosophy
- Company History
- Overall Organization
- Business Items
- Annual Sales and Growing Trend

Korea No.1 Total 3D Printing Solution Provider

CUBICON

A Company that Printing Imagination

We are a **Total 3D Printing Solution Provider** based on the key technology and development

Our Goal is to make it all necessary products in the application markets

such as an industrial, bio-industrial and educational field.

Company History – The way we walked

“Make All Object Real”

2015

- **‘Cubicon’ Brand Launching**
- Launch a new 3DP of ‘Cubicon Style’
  - Supplied to LG Electronics & Seoul National University

2017

- **Established ‘CUBICON’**
- 3D Printer Business Cooperation and MOU signed up with Sebang

2019

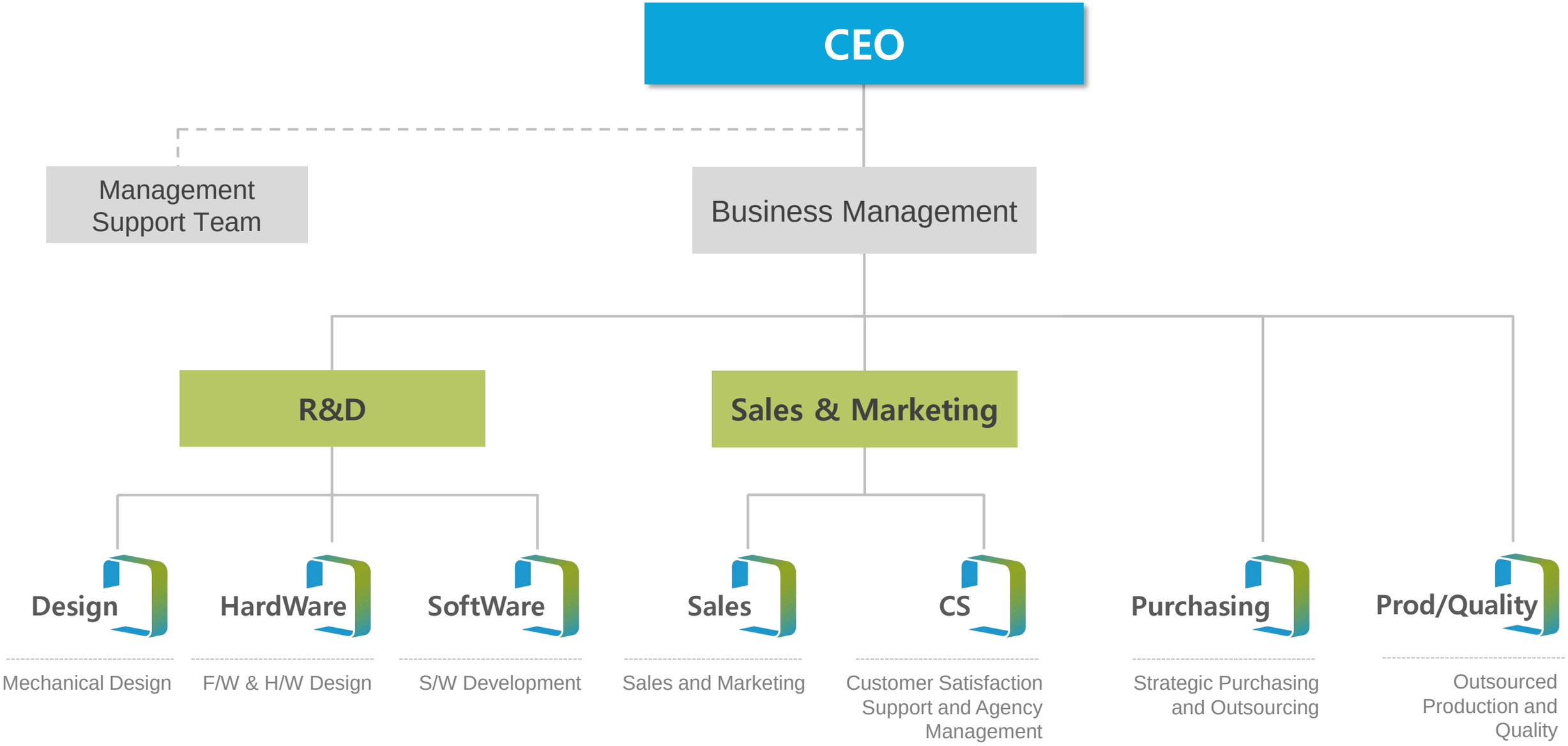
- Launched ‘Cubicon Style Plus’
  - Supplied to Seoul National University and US Embassy in South Korea

2020

- Launched **a industrial 3D Printer ‘Max600’**
- Launched ‘Neo-A22C’
  - Supplied to LG Electronics, Korea University & POSTECH (Pohang University of Science and Technology)
- Signed up MOU with Robot Risen for discovering the technology convergence

2021

- Started into a new market of industrial component development
- Launched ‘Neo-A31C’ and Dental 3D printer ‘A15D Dental’
- Signed up MOU with Shinsung University


CEO
Management Support Team
Business Management
R&D
Sales & Marketing
Design
HardWare
SoftWare
Sales
CS
Purchasing
Prod/Quality
Mechanical Design
F/W & H/W Design
S/W Development
Sales and Marketing
Customer Satisfaction Support and Agency Management
Strategic Purchasing and Outsourcing
Outsourced Production and Quality

3D Printers

FDM
(Fused Deposition Modeling)

FFF(Fused Filament Fabrication) type

A method of the extruding after melting raw materials through hot nozzle

- **For general consumer, Educational, Dental, and Industrial 3D Printers**
- **Auto-Leveling & Calibration**
- **High quality, speed & accuracy**

DLP
(Digital Light Processing)

Using UV lamp and dimming device.

A method of curing the entire layer at once using a UV lamp and dimming device (Fast output speed)

- **For general consumer, Educational, and Industrial 3D Printers**
- **Auto-Leveling w/ Dual nozzle**
- **High speed & quality**

SLA
(Stereo Lithography Apparatus)

** MAX600*

Using liquid photopolymer and resin.

A method of irradiating UV laser on the print bed in a tank containing resin and touching the resin to cure by photo-curing

- **Industrial 3D Printer for making injection and processed parts**
- **Auto-Leveling & Tilting calibration**
- **High speed, quality, performance and High accuracy**

Components

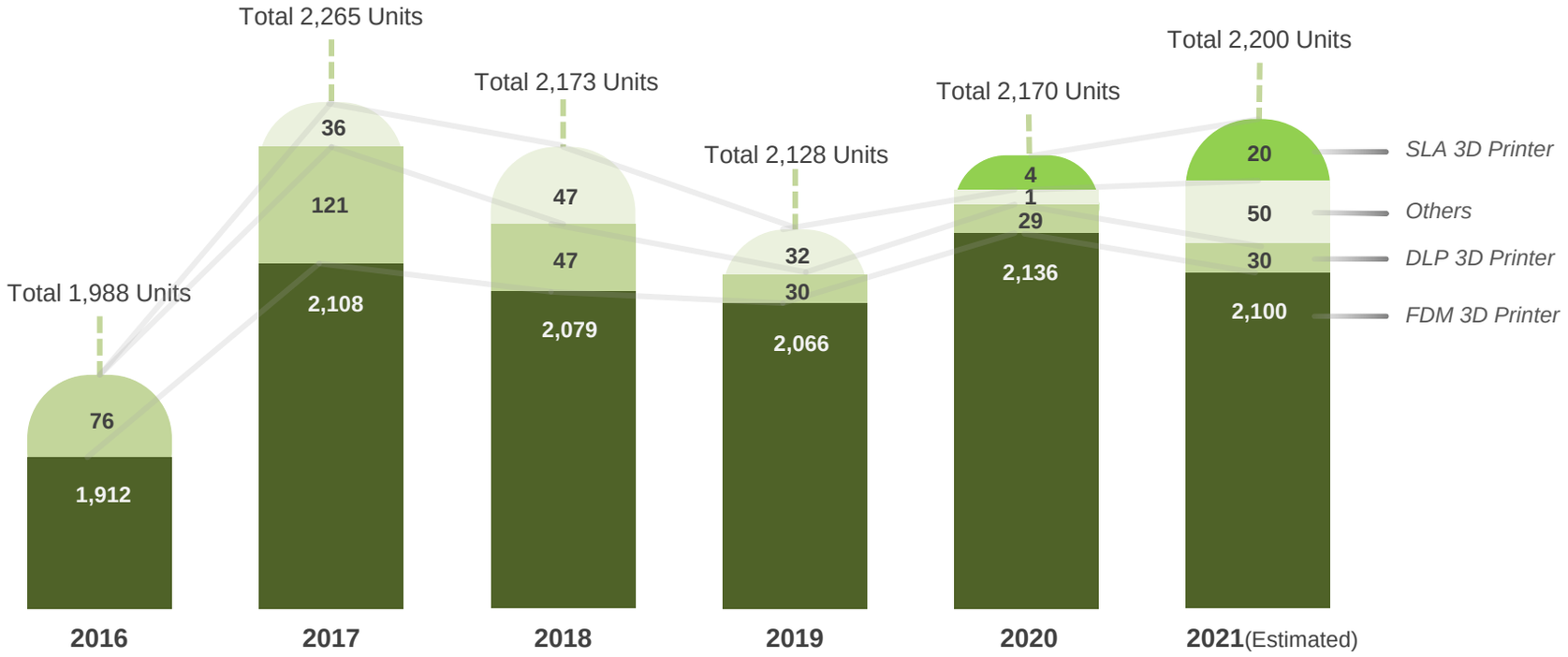
3D Scanner, Vision Light, and Controller

Providing of each component such as 3D scanner of SL type, Extruder, Various light components for vision camera, and 4CH/12CH Vision light controller

- **Each Component and Application device for 3D Printers and Testers**
- **Minimal margin of error with precision specifications**
- **Compact Size and High Precision & Control**

Accumulated Sales of around 13K products

- ✓ Superiority of CUBICON's 3D Printers
- ✓ High-Precision, High-Speed, and High Quality of 3D Printing Products
- ✓ Continuous development of new 3D printers with advanced technology
- ✓ Grow up to World-wide and World-best 3D printing solution provider



[Annual Sales in Domestic Market]

CUBICON

3D Printer Products

- Product Line up & History
- Main Product Introduction

CUBICON - 3D Printer Line up

- ✓ A Different Level of High Quality and Performances
- ✓ Easy and Convenient Usability for anyone
- ✓ High Efficiency and Safety
- ✓ Fast and Accurate Maintenance

Single Plus (3DP-310F)
Auto Leveling Patent
High-quality output

Dual Pro (A30C)
Dual Extruders

MAX600
Industrial 3D Printer
of Large scale, SLA Type

Style Neo (A22C)
High-quality
of just one layer

2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021

Style (210F)
Low Noise
& Self-Design

Lux FHD (3DP-210DS)
Light Distribution Control Func.
High-precision output

Cure (3DT-100S)
High-power UV LED

Scan Pro (3DS-200D)
3D Scanner of SL type

Style Plus (A15C)
Professional 3D Printer
for desktop

Lux DLP (B12C)
High-speed output of
Light curing method

Style Neo (A31C)
Low Noise
Large size output

Style Plus (A15D)
3D Printer of dentistry
of high-precision

Main Product and Specification

Best Quality with just one layer

High-performance 3D Printer

Style Neo series
- A22C

TYPE	FDM Type
Product Size	405 x 451 x 597mm
Weight	32kg
Output Size	220 x 220 x 220mm
Output Speed	Max 150mm / sec
Layer Height	100 ~ 300um
Accuracy (XY/Z)	3.125um / 1.25um
Filament Materials	ABS / A100 / PLA+ / PLA-i21 / PETG / TPU
Slicing S/W	Cubi-creator 4

Large size printing output

Low noise 3D Printer

Style Neo series
- A31C

TYPE	FDM Type
Product Size	498 x 552 x 710mm
Weight	45kg
Output Size	310 x 310 x 310mm
Output Speed	Max 150mm / sec
Layer Height	100 ~ 300um
Accuracy (XY/Z)	3.125um / 1.25um
Filament Materials	ABS / A100 / PLA+ / PLA-i21 / PETG / TPU
Slicing S/W	Cubi-creator 4

Ultimate efficiency with dual nozzle

Industrial 3D Printer

Dual Pro
- A30C

TYPE	FDM Type
Product Size	780 x 760 x 1,610mm
Weight	140kg
Output Size	300 x 300 x 300mm
Output Speed	Max 500mm / sec
Layer Height	100 ~ 400um
Accuracy (XY/Z)	5.0um / 0.8um
Filament Materials	ABS / PLA+ / PC / HIPS / PVA+ etc.
Slicing S/W	Cubi-creator 4

Dentistry Innovation
The begins of digital dentistry

Bio 3D Printer for dentistry

Style Plus Dental
- A15D

TYPE	FDM Type
Product Size	322 x 350 x 486mm
Weight	15kg
Output Size	150 x 150 x 150mm
Output Speed	Max 150mm / sec
Layer Height	50 ~ 300um
Accuracy (XY/Z)	3.125um / 1.25um
Filament Materials	ABS / PLA+ / PETG / TPU
Slicing S/W	Cubi-creator Dr.

Korea's representative SLA printer

Industrial 3D Printer

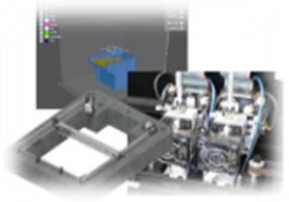
MAX600

TYPE	SLA Type
Product Size	1,150 x 1,250 x 1,920mm
Weight	1,200kg
Output Size	600 x 600 x 400mm (Full Vat)
Output Speed	Scan Speed : Max 10m / sec
Layer Height	50 ~ 250um
Accuracy (XY/Z)	Laser Beam size
Filament Materials	ABS-like / Flexible / Clear / Heat-resistant / Dental etc.
Slicing S/W	Materialise Magics

Core Competencies

Differential Strong Development and Technology Ability

- Robust development and technical capabilities due to R&D and engineering team with mother company
- Skilled R&D and engineering team with average experience of 12 years
- Accumulated best practices methods and know-how through partnerships with the academic and research institutions over 7 years
- Our own product design and high quality development capabilities based on vision recognition, motion control, signal processing, and mechatronic core technologies



Full Package Solution Support

- Providing of mechanical & electrical design, S/W architecture and F/W development for new customized 3D printer
- Superior development capability from product design to GUI interface with own core component parts (Vision camera, Extruder, Vision light and controller as well as 3D scanner)
- Quick responses to development and technical issues related to quality control, mechanical and electrical design
- Ability to configure high quality, high speed and accuracy with high performances (Auto leveling, Calibration & Control)

Efficient Supply Chain Management and Support

- Strategic supplier selection and outsourcing in the global market
- Fast-responsiveness and support to changes in customer's requirements
- Arrangement and support for cost-effective and high quality parts suppliers for necessary core components

Dynamic Key Engineer and Stabilized Labor Management

- More than 20 years of labor management experience in Korea labor market
- Effective labor planning and key engineer management leading to low turnover rate
- Hiring and managing of key players through core engineer pool management

Customer-Focused Mindset

- All R&D, Engineering and Sales team dedicated to creating and delivering extraordinary customer values
- Product development and technical support by focusing on the Customer's VOC and needs

Core Technology

- FDM Printer
- BIO Printer
- SLA Printer
- Key Technology & Patents

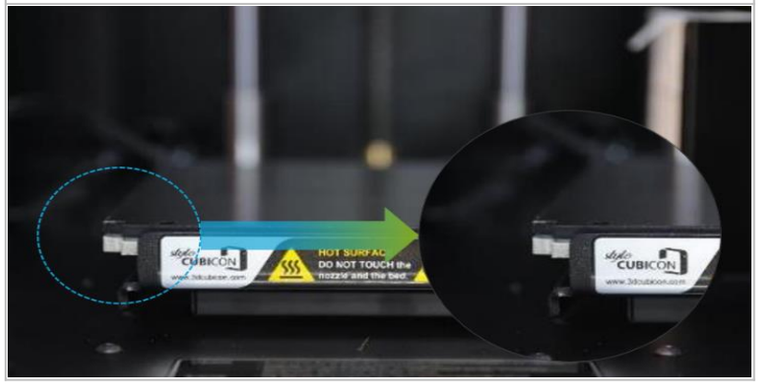
FDM Printer | Core Technology and Key Features

Full Auto Leveling Function

- Auto Leveling function that fully automatically adjusts the gap between nozzle and bed

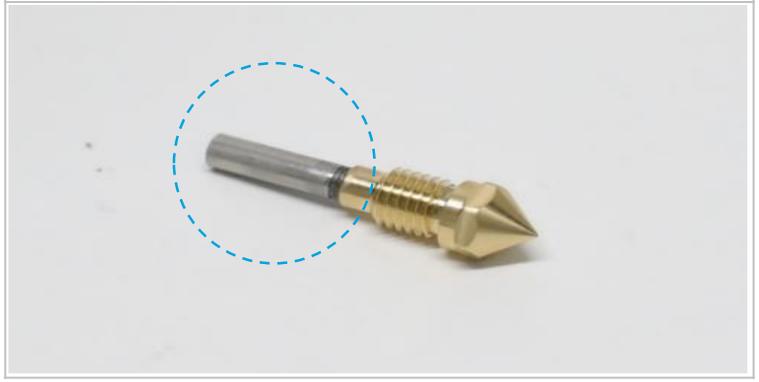
Heating Bed specially coated with insulation

- Heating Bed enables fast printing and easy separation even for beginners without surface works



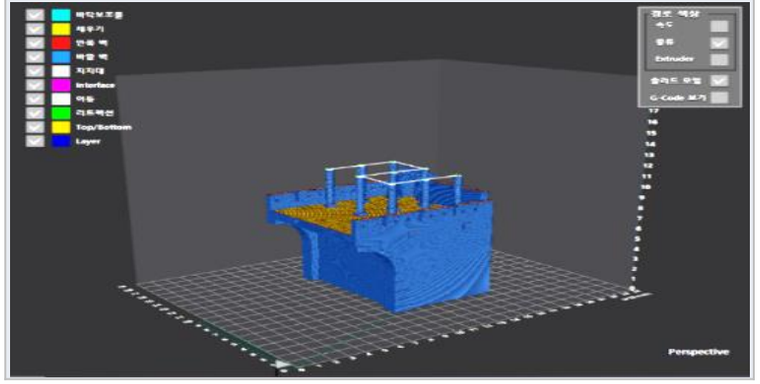
Stainless Nozzle Kit

- Reinforced durability and minimized failure rate by applying stainless steel nozzle kit (Own patent)



Dedicated Slicing SW and Wi-Fi Connection

- Quick and easy printing using own dedicated slicing SW and Wi-Fi connection of 3D Printer

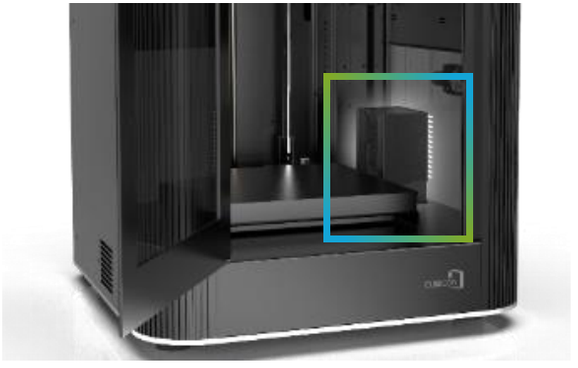


Various Material Output with one extruder

- Securement of the same quality even if printing several types of filaments with one extruder

Triple Clean Air Filter of Qualified certifications

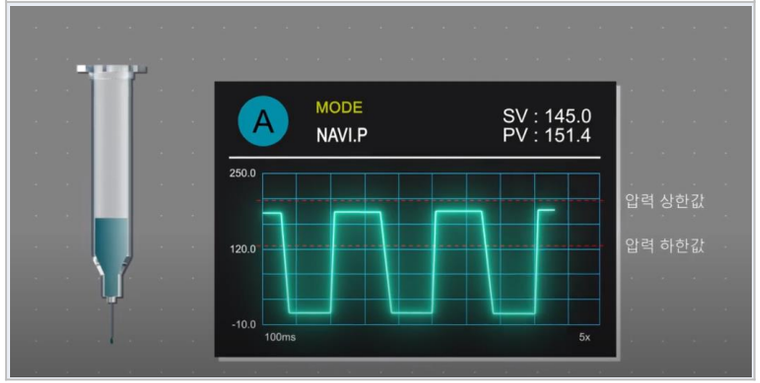
- Providing safe printing environment from harmful gas & dust by installing the first replaceable triple clean filter



BIO Printer | Core Technology and Key Features

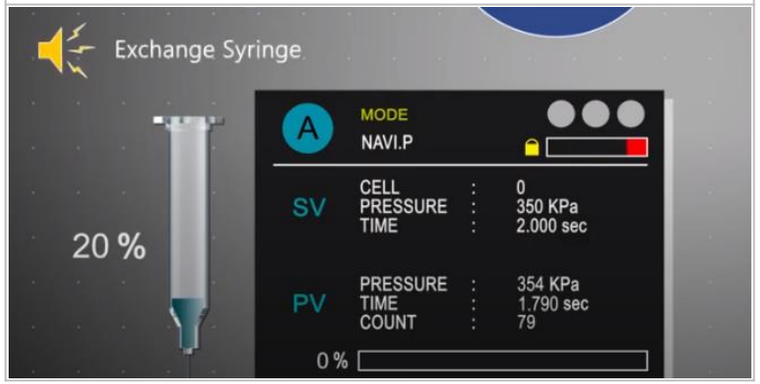
Air Extrusion Function

- Quantitative dispensing of materials within the syringe using a digital regulator



Dispensing Controller (Own Design & Patent)

- In-house development of high-spec dispensing level spec
- User convenience by applying residual quantity detection

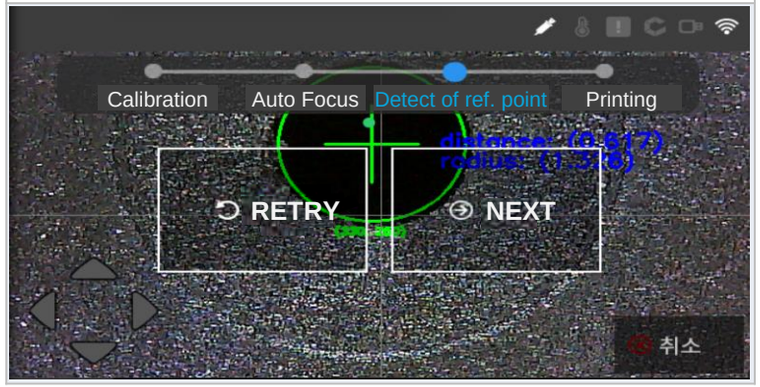


Low Noise Compressor System

- Comfortable printing environment even indoors with a low noise compressor system configuration

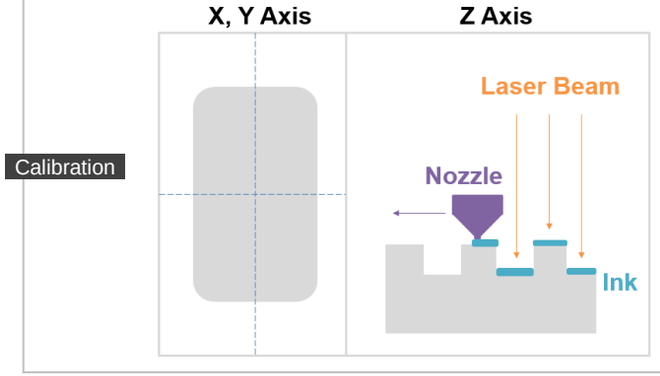
Auto Vision Calibration

- Automatic correction of the output position through the auto detection of master pattern using vision cam(x, y axis)



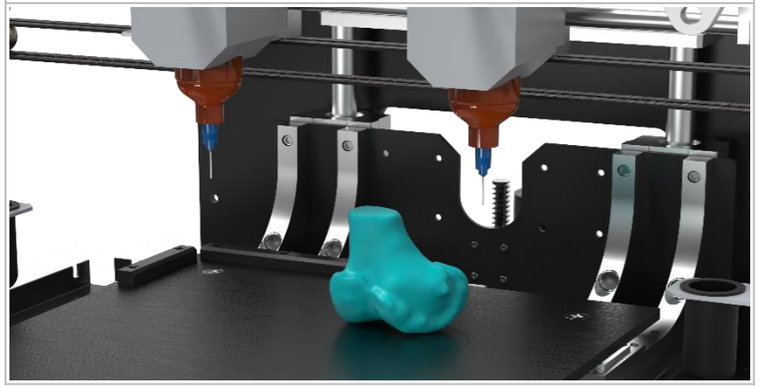
4D Output Function by height position

- Precise output by automatic correction of the exact position with the vision camera and dispensing sensor



Dual Syringe Installation

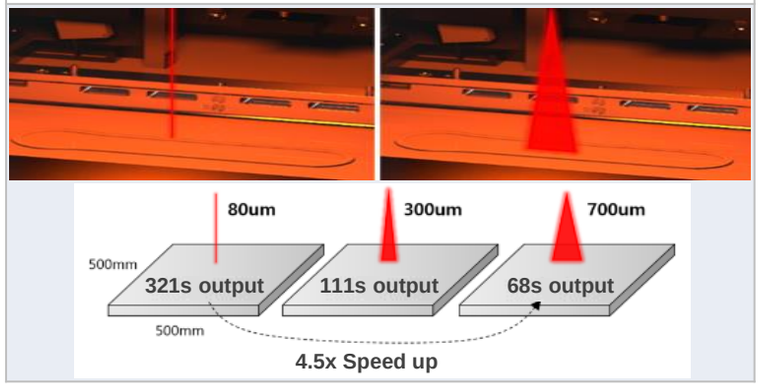
- Supporting of material filling and printing with the dual syringe as user needs



SLA Printer | Core Technology and Key Features

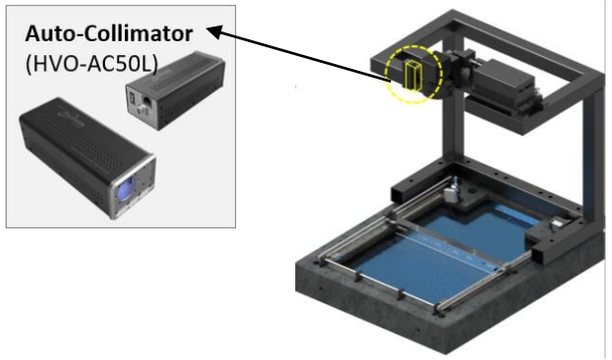
Laser Spot Variable System

- Simultaneous high quality and high speed output support by the laser spot variable system



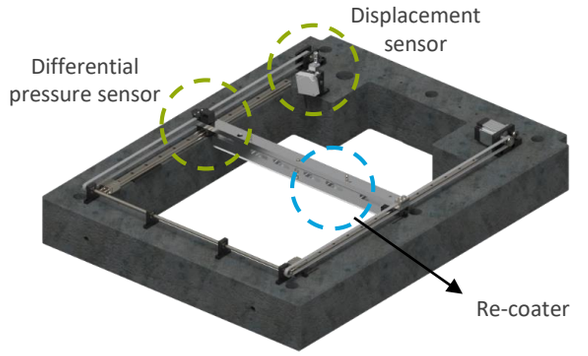
Precision Tilting-Calibration

- Supporting of sophisticated lamination by auto-collimator (Own design, development and patent)



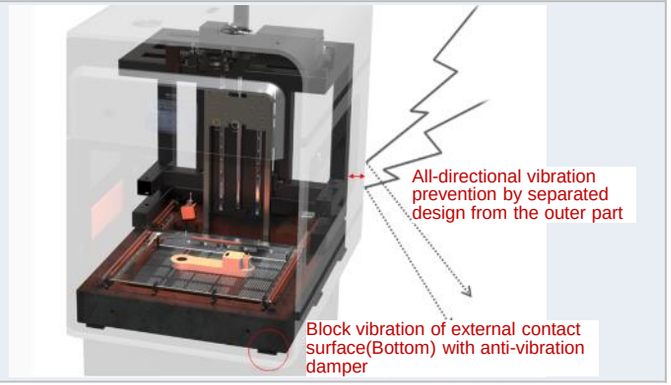
Auto Leveling Func. of Precision Re-coater

- Optimum output quality by automatic adjustment of the distances between the re-coater and the resin surface



Anti-vibration with Unified design structure

- Integrated with 3D printer's three units on a stone plate
- Vibration minimization by separating from the outer part



Printing of Various materials

- Various material selection according to the user purpose, such as heat-resistant, transparent, and soft-type materials

Full Solution Support (MAX600)

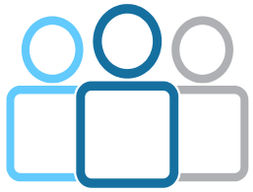
- Supporting of a unique full solution for the total process from first 3D design to final post-processing

Our Key Patents and Technology

No.	Date	Patent Descriptions	Patentee	Registration Number
1	2015-03-09	Raw material extrusion device and 3D printer using the screw extrusion method	CUBICON	Patent No. 10-1502342
2	2015-10-26	Bed level alignment device of 3D printer	CUBICON	Patent No. 10-1564554
3	2016-12-19	Spool mounting device of 3D printer	CUBICON	Patent No. 10-1689116
4	2016-12-19	Raw material extrusion device of the module detachable 3D printer	CUBICON	Patent No. 10-1689117
5	2017-07-11	Device and method for generating 3D printing file including the support part And a computer-readable recording device on which is recorded the method	CUBICON	Patent No. 10-1758814
6	2017-09-04	3D Printer with tilting device of the resin storage units	CUBICON	Patent No. 10-1776778
7	2017-11-22	3D Printer with detachable nozzle for preventing the electric short	CUBICON	Patent No. 10-1802201
8	2017-11-22	Nozzle design and structure for 3D printer	CUBICON	Patent No. 10-1802193
9	2017-11-22	3D printer using the bed of induction heating type	CUBICON	Patent No. 10-1802197
10	2018-04-11	3D printer of replaceable nozzle	CUBICON	Patent No. 10-1849592
11	2018-04-11	3D printer with origin adjustment device for the molding plate	CUBICON	Patent No. 10-1849600

Continue to Focus on Leading Global Network and Companies

- Provide technology & product expertise, customized development & customer service
- Expand share of customers' demand with competitive pricing and superior quality



Enlarge Customer Base and Served 3D Printer Market Segments

- Assess opportunities to target more 3D printer brand manufacturers as customers
- Enlarge and diversify customer base
- Expand to the global 3D network and partnerships

Expand of Product Offerings and Market Applications

- Expand to higher-end and competitive 3D products with higher profit margins
- Develop 3D printer solutions & components for general customer, industrial & Bio applications
- Leverage full-in package solution & technology for compact and superior features

Drive Product Innovation, Design Capability & Operational Efficiency

- Continue to enhance expertized 3D printer technologies and engineering capabilities
- Attract and retain engineering talent, technical staff and strategic partnerships
- Increase design capability & achieve high efficiency
- Reduce unit costs and increase output

CUBICON

Business Proposals

- Option 1 : OEM Business (Customization of Existed Product)
- Option 2 : ODM Business (New Products)

Customers

- Business Strategy and Planning
- Promotion and Sales Plan
- Target Market Analysis
- Production Preparation & Plan
- Assembly and Production
- Product Quality Response

Product Development & Customization

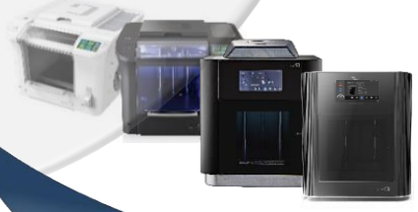
Existed Product Review & 3DP Product Selection

CUBICON

- ✓ Customized 3D Printer
- ✓ Full Package Solution
- ✓ Key Parts Support
- ✓ Technical Support

Technical Quality Support

Assembly & Production



Market Launching & Sales as Customer's Brand

Customers

- Business Strategy and Planning
- Promotion and Sales Plan
- Target Market Analysis
- Production Preparation & Plan
- Assembly and Production
- Product Quality & Technical Support

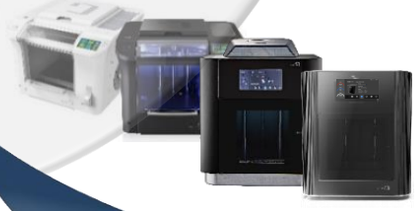
Product Development & Customization

Concept & Requirement Launch and Sales Planning

CUBICON

- ✓ Component Development
- ✓ New Product Design
- ✓ Key Parts Support
- ✓ Technical Support

Assembly & Production



Market Launching & Sales as Customer's Brand

Thank you!

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