

**3DB**  
THINK GREEN THINK FUTURE  
MADE IN ITALY

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**88**  
*dent*



**BDB**

THINK GREEN THINK FUTURE

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# 3Dprinters

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The partnership between 88dent and 3DBusiness has given life to a new line of 3D printers characterized by high performance and sustainability.

The peculiarity of these printers, totally built from other 3D printers, lies in their production

**MADE** IN **ITALY**

## PATENTS PENDING



**Esclusive eco-friendly external texture design** of each machine



Complete prints washing system with **Wash & Dry**



Automatic 3D Printers' internal heating and cooling **temperature control** management system



**Blown air heating** for optimal resin management



**Passive tilting system** of the print tank, for ultraprecise print detachment



Unique **Anti-vibration air filter**

# Advanced features

3D Business offers tools to simplify the management of printed objects with high precision and specific results. Spreent 3D imports files in different formats while maintaining the original specifications.

1

## MESH ANALYSIS AND REPAIR

Spreent 3D uses a simple and intuitive user approach with many operations performed automatically to achieve a perfect result. During file import, problems are analyzed and resolved in seconds with tools for managing clusters and correct orientation of normals. Furthermore, a mesh-fix solves all mesh issues with just one click.

2

## NESTING

To achieve optimal results in manufacturing, it is important to position objects precisely. The user can assign a positioning and support profile to each object, choosing from several options, including automatic, manual and assisted, with customizable parameters. This can help optimize production times and costs.

3

## NETWORK SCAN

Spreent 3D software is integrated to allow the user to work from their computer as if they were using the printer screen.

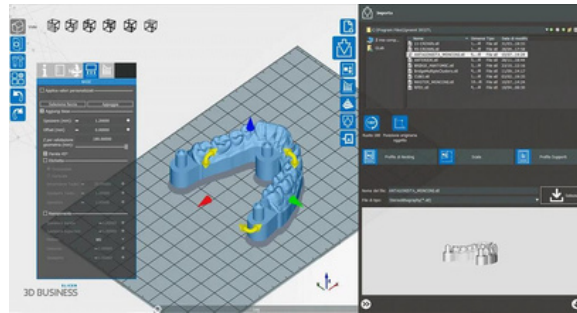
4

## SUPPORTS

Spreent 3D offers customizable options for inserting supports, including the automatic option that covers minimum points, slope areas and dimensions of supports, and the manual option that allows you to insert them with just one click.

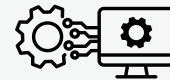
# Software SPREENT 3D:

The perfect solution for the production of your models.



## Innovative Software Wi-Fi Connection

The extremely easy to use interface allows the user to prepare for the print, guaranteeing perfect results.



## Technological Development

Spreat 3D is optimized for production with 3D printers with Galaxy Series DLP technology.

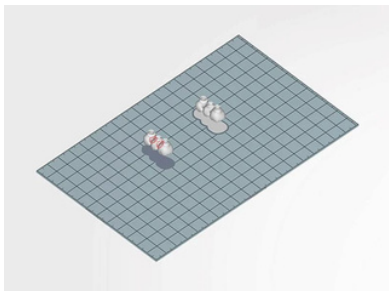
For each of them, the application optimizes the projection in order to obtain the best final result depending on the types of resins used and the characteristics of the model being printed.



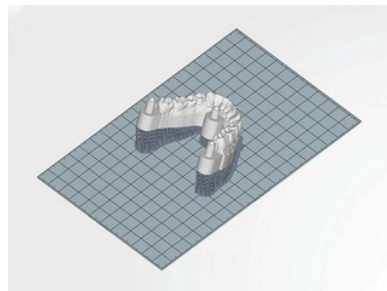
## Complete solution

Spreat 3D is equipped with all the functions and automation necessary for the entire process.

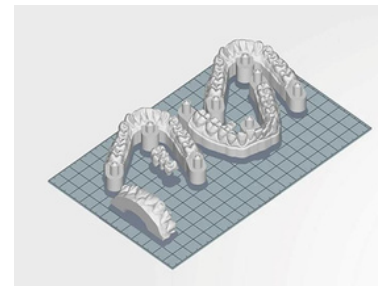
From analyzing to repairing files to managing the machine, it makes the product extremely easy to use.



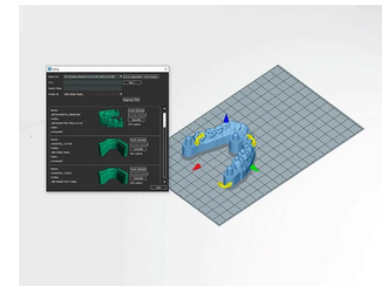
Mesh analysis



Supports



Nesting



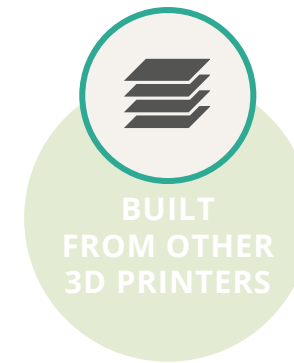
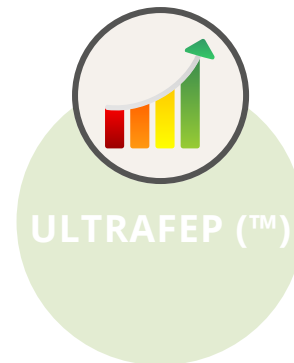
Network Scan



# 3D printers

- > Strato
- > Galaxy 6 Plus
- > Galaxy 10

# Common features 3DBUSINESS PRINTERS



**Reduction of CO2 emissions:**  
Adopt processes to reduce CO2 emissions. It requires an extremely limited amount of CO2 for its production. The environmental cost of producing steel is four times higher than that of PLA, with further emphasis on the difference in density between the materials.

**Bio-degradable materials:**  
Develop bio-degradable and UV resistant materials.

**3D printer manufacturing technique:**  
3D printers are entirely created with the additive manufacturing technique.

**Carbonaut technopolymer:**  
It develops the Carbonaut technopolymer, with carbon additives and entirely recyclable.

**Thermal conductivity:**  
The printers have remarkably low thermal conductivity.

**Thermal and acoustic insulation:**  
They guarantee high thermal and acoustic insulation.

**Energy consumption:**  
As a result, energy consumption is lowered.

**UltraFEP (TM):  
it's beyond everything!**

- 3x Printing speed
- 3x Useful life
- 100% Successful prints
- + Detail
- + Quality
- Stress

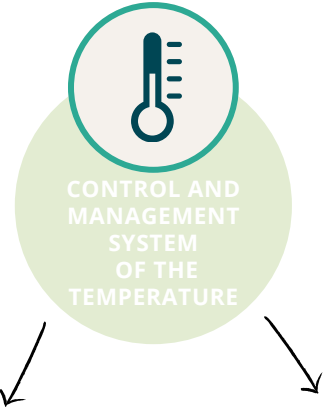
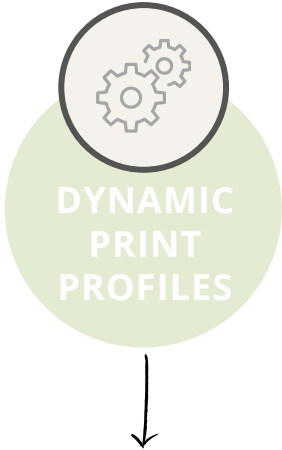
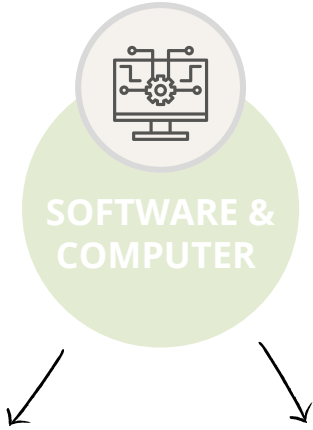
**Alveolar structure,  
resistant and light:**

The printers have a durable and lightweight structure and are shockproof. The system is based on a closed-cell honeycomb structure, which forms the bones and skin of the walls of printers and polymerization booths. A particular feature of this material is its total resistance to UV rays.





# 3DBUSINESS PRINTERS



**STRATO:**  
Strato works via USB stick where the print files are loaded already with the slicing step

**GALAXY:**  
3DB printers have an integrated computer that is used to control the machine remotely. Spreent 3D is the internal software (to be purchased separately) for managing object positioning and PIN management. The software is dedicated to file management and remote calculation preparation

**GALAXY:**  
Dynamic profiles are special algorithms to optimize printing based on each type of resin used in LED/LCD printing. They are a peculiar exclusive of the Galaxy series printers and have the potential to literally revolutionize the quality of the work and make parts printable that would otherwise not be possible with classic profiles

**STRATO:**  
The system acts on the temperature of the resin. In heating it uses the heat produced by the electronics, while in cooling, the speed of the air blown on the resin is modulated to guarantee the optimal temperature.

**GALAXY:**  
Temperature control takes place directly from the printing chamber. The set point is automatically managed based on the resin used. In heating it uses the heat produced by the electronics and, if necessary, activates a heating element.

# COMPARISON OF PROCESSINGS



**STRATO**



**GALAXY 6 PLUS**



**GALAXY 10**



## PARAMETER

Temperature controls	Active control with resin cooling/heating	Independent active electronic control of resin and internal volume	Independent active electronic control of resin and internal volume
Wavelengths	405 nm	405 nm	405 nm
Aesthetic details	✓	✓	✓
Functional prototypes of technical resins	✓	✓	✓
Dental models	✓	✓	✓
Extremely high precision models	✓	✓	✓
Temporary crown bridges	✓	✓	✓
Surgical guides	✓	✓	✓
Aligners and bites	✓	✓	✓
Skeletons	✓	✓	✓
Tray	✓	✓	✓
Surface quality	Unbeatable	Unbeatable	Unbeatable
Geometric accuracy	Very high	Very high	Very high
Printing speed	Very fast	Very fast	Very fast

# TECHNICAL FEATURES



TECHNICAL DATA	STRATO	GALAXY 6 PLUS	GALAXY 10
Packaging size and weight	38,5x28,5x25 7Kg	40x40x70cm 10,5Kg	50x50x70cm 17Kg
Size and weight	22x18,5x33cm 4,5Kg	29x27x52cm 7,5Kg	39x37x59cm 14,5Kg
Technology	MSLA LED-LCD	MSLA LED-LCD	MSLA LED-LCD
LCD size	6.6", 4K, monochrome	6.6", 4K, monochrome	10,1", 5K
LCD resolution	4098x2560 4K MONO (open cell)	4098x2560 4K MONO (open cell)	4864x2736 PIXEL MONO
Print volume	143X89X110 mm	128x81mm (143x89 PLUS) x 160 mm	220x130 (H180) mm
Pixel size	35 um	35um	45 um
Detachment method	ULTRA-FEP	ULTRA-FEP	ULTRA-FEP
Temperature controls	Resin and volume at controlled temperature	Resin and volume at controlled temperature	Resin and volume at controlled temperature
Software	ChiTuBOX	Spreent 3D/Exocad Integrated + Model Creator Integrated	Spreent3D/Exocad integrated
Interface	Display touch 5"	Display touch 7" web based	Display touch 7" web based
Drive	Microstepper 1,2 micron	Microstepper 1,2 micron	Microstepper 1,2 micron
Asse Z	Guide linear HIWIN	Guide linear HIWIN	Guide linear HIWIN
UV source	LED MONO Ultra High Power	MONO LED, double parallel correction lens	Fresnel technology double lens LED
Wave length	405 nm	385/405 nm	405 nm
Connections	USB	WI-FI e USB	WI-FI e USB
Biocompatible resins	Open system compatible with all 405nm resins	Open system compatible with all 405nm resins	Open system compatible with all 405nm resins
Cooling down	SUPER SILENT technologies	SUPER SILENT technologies	SUPER SILENT technologies
Slicing/slicer method	-	Integrated into the printer	Integrated into the printer
Internal memory	-	32 GB (Obs. fine 512 GB)	Disco NVMe 120GB (Note 2T)
Resin reserve	-	-	Additional 2.5l heated tank with integrated resin mixer
Note	Self-calibrating printing plate	Self-calibrating printing plate	Self-calibrating printing plate. Automatic resin filling and magnetic drive resin mixer



FAST resin model for thermoforming



Skeletonized castable resin

Accessories:  
VAT Rest 5



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STRATO

Air-conditioned  
Ultracompact  
Ultra fast  
Patented passive tilting system of the printing tank

# STRATO



Touch screen control



PATENTED ANTI-VIBRATION  
AIR FILTER

DESIGNED TO LAST

AUTOMATIC RESIN AIR  
CONDITIONING



PATENTED TEMPERATURE CONTROL  
AND MANAGEMENT SYSTEM



ULTRAFEP AS STANDARD



Bite



Stampante Galaxy 6 PLUS  
Resina: Mack4D model



Accessori:  
VAT Rest 2 HT  
Software Spreent 3D



THINK GREEN  
THINK  
GALAXY 6 PLUS

Fast (reduction of printing times from 50% to 70%)  
Precise (drastic reduction of printing defects in  
critical areas)  
Silent

## GALAXY 6 PLUS



Wifi  
connection



Touch screen  
control



Multi device  
control



DYNAMIC PROFILE



PATENTED TEMPERATURE  
CONTROL AND  
MANAGEMENT SYSTEM



TRANSPARENT RESINS



STABLE TEMPERATURE  
& POWER SLAB



WI-FI CONNECTED



Printer Galaxy 10 Resina:  
3D Business Water white

Accessories:  
Software Spreent 3D



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THINK  
GALAXY 10

- Large print volume
- Automatic heating of the closed loop printing chamber
- Integrated slicing compatible with all operating systems
- Automatic filling of the printing tank

## GALAXY 10



Wifi connection



Touch screen control



Multi device control



DYNAMIC PROFILE



PATENTED TEMPERATURE CONTROL AND MANAGEMENT SYSTEM



AUTOMATIC RESIN MANAGEMENT



STABLE TEMPERATURE

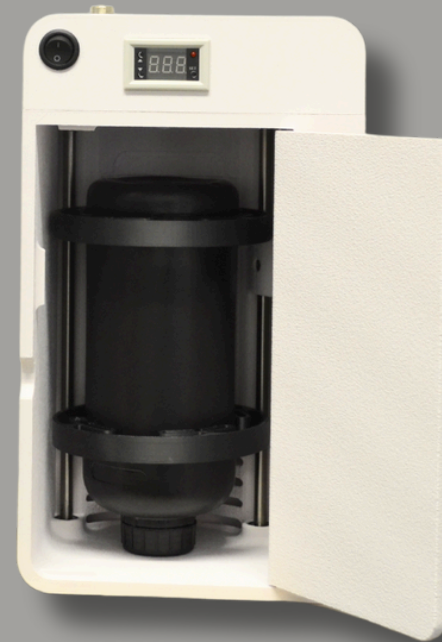


WI-FI CONNECTED



# Accessories

- > Light Box
- > Mixer 1
- > Wash & Dry



THINK GREEN  
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MIXER

Essential  
Easy  
Immediate  
Compact  
Silent

Mixer size and weight	19x32,5x17cm 2,4Kg
Packaging size and weight	25x35x23cm 3,5Kg
Internal volume dimensions	Diametro MAX 130mm Altezza MAX 255mm
Power	Separate supply 12V 5A
Average consumption	0,025KW/h
Maximum temperature	45°C MAX

## MIXER



IT DOES NOT  
INCORPORATE AIR



PATENTED HEATING



INTEGRATED DIGITAL  
THERMOSTAT





THINK GREEN  
THINK  
WASH & DRY

Ecological  
Efficient  
Quick

Wash & Dry: the only ultra-rapid integrated system.  
The 3D Business Wash & Dry system uses spray technology to pre-wash, wash and dry a model in just 60 seconds.

Size and weight	375x250 H315mm 3,5Kg
Internal dimension	359x234 H212mm height MAX 277mm
Collection tank capacity	2500ml
Power	Separate supply 12V 1A
Tank capacity	700ml Approximately 100 washes
Compressed air	2 Bar MIN Optional mini compressor

Accessories:  
VAT Rest 4



## WASH & DRY



NEW NEBULIZING TECHNOLOGY  
(60sec-200 washes/litre)



CO2 EMISSION REDUCTION  
& ECOLOGICAL CLEANER



PATENTED SYSTEM

Packaging size and weight	30x30x50cm 4,5Kg
UV booth dimensions and weights	20x20x32cm 2,6Kg
External bulk	200x200 h320 mm
Internal volume and dimensions	7.5 Liters/ 180x180 h210 mm High working volume/footprint ratio
Structure	Interments in biodegradable recyclable materials Certificazione UV resistente
Cooling down	Ultra silent active fans
UV LED power	2x80W with Power Slab technology
Heating	Passive up to 80°C High energy efficiency thanks to the recovery of the heat generated by the LEDs
Display	LED, programmable timer 1-999 min
Type of polymerization	Mono band 405nm with concentrated energy
Machine type	High efficiency UV Curing Booth One button operation



THINK GREEN  
THINK  
LIGHT BOX 2

High polymerization speed

Easy to use

Compact

Reliable

Sustainable

Resistant

Silent



Accessori:  
VAT Rest 2HT

## LIGHT BOX 2



ALVEOLAR STRUCTURE



EFFICIENT THERMAL INSULATION



DOUBLE POWER SLAB  
TECHNOLOGY



CONCENTRATED LIGHT

# ACCESSORIES

<b>VAT-Rest-4</b>	Container for Wash & Dry 1 tanks, stackable
<b>VAT-Rest-5</b>	Container resin tanks for Strato (2 VATs), stackable
<b>VAT-Rest-2 HT</b>	Heated resin tanks container for Galaxy 6 Plus / stackable with Light Box 2
<b>Spreent 3D</b>	Software for object positioning and PIN management

# CONSUMABLES

<b>3DB-LCDCLEAN</b>	Special BIO cleaner for LCD and FEP 30ml (with anti-adhesive properties)
<b>3DB-CHW25</b>	Regeclean odorless high power and long lasting detergent for washing resin 2.5 litres
<b>3DB-CH001</b>	Isopropyl alcohol detergent 1lt (PAH based)

# SPARE PARTS

<b>G6-VascaUFEP</b>	Galaxy 6 /Strato resin vat with ULTRA FEP HD300
<b>G10-VascaUFEP</b>	Galaxy 10 resin vat with ULTRA FEP HD300
<b>3DB-Mixer</b>	Mixer
<b>STRATO-PLATE</b>	Complete plate for Strato
<b>G6P-PLATE</b>	Complete plate for Galaxy 6 PLUS
<b>G10-PLATE</b>	Complete plate for Galaxy 10
<b>STRATO-LCD35M</b>	LCD Strato
<b>G6-LCD35M</b>	LCD Galaxy 6 PLUS
<b>G10-LCD45M</b>	Galaxy 10 LCD 5K









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