



# Bilby 3D

## **MATERIAL DATA SAFETY SHEET**

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

### **Section 1: AUSTRALIAN COMPANY DETAILS**

In Australia the product is imported and distributed by:  
Bilby 3D Pty Ltd

Mailing Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Head Office Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Contact Phone: 1800 847 333

### **Section 2: AUSTRALIAN EMERGENCY CONTACT**

#### **Emergency Contact**

In the event of an emergency please contact:

Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

### **Section 3: AUSTRALIAN ISSUE DATA**

**Date of Issue** : 1 March 2020



# HUNTER

DIGITAL  
LIGHT  
PROCESSING  
3D PRINTER



[www.Bilby3D.com.au](http://www.Bilby3D.com.au)  
1800-847-333



## PARAMETERS

Build Volume: 4.72" x 2.66" x 5.91" (120 x 67.5 x 150mm)

Pixel Size X, Y: 0.0025" (62.5  $\mu$ m)

Layer Resolution: 0.0005"/ 0.0010"/ 0.0020" (12.5 / 25 / 50  $\mu$ m)

Light Source: 405nm LED

File Input: STL

Machine Size: 14.17" x 12.20" x 22.24" (360 x 310 x 565mm)

Weight: 17.8kg (39.24lbs)

Power: 100-240V, 50-60Hz, 1A

Software: FlashPrint

Connectivity: USB Stick / USB Cable / WIFI



## LIGHT ENGINE

Self-developed proprietary light engine with FHD 1080p resolution and 50,000 hours life span.

## LIGHT INTENSITY CONTROL

The unique closed-loop feedback light intensity control system ensures sustained and stable LED intensity, enabling stronger stability and finer print details.



## LINEAR MOTION GUIDE ACTUATOR

Industrial Z axis LM guide actuator module enables an accuracy of micron, achieving smoother printing surface.



FEP VAT FILM



## ALUMINIUM RESIN VAT FEP VAT FILM

### LONG SERVICE LIFE EASY REPLACEMENT

Easily dismount resin vat for the change of material to ensure little material waste.

Durable aluminium resin vat requires no maintenance. The long service life FEP vat film can be easily replaced and thus low acquisition cost.

## BUILD PLATE

### DURABLE NO CALIBRATION QUICK REPLACEMENT

The build plate can be replaced quickly and there is no need for calibration.

That is faster printing speed and easier to do post treatment.





## CONNECTIVITY

Multiple connectivities,  
more convenience.



USB  
STICK



USB



WiFi



## TOUCH SCREEN

Simple and intuitive user interface that is  
super easy to use.

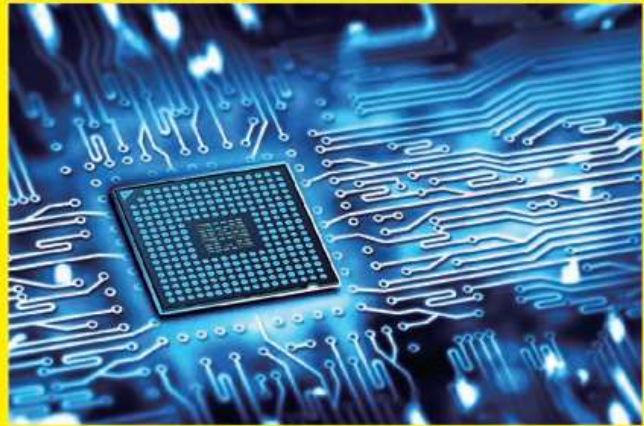


## ADVANCED MAINBOARD DESIGN

Advanced architecture mainboard and self-developed proprietary light engine work together perfectly.

Dual-core 800MHZ ARM processor ensures high-performance and better user experience.

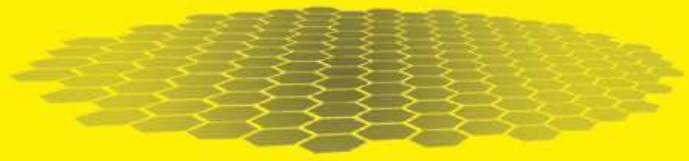
The mainboard is designed and made in 10-layer high precision board, safeguarding EMC, the integrity and the stability of the projection signal.



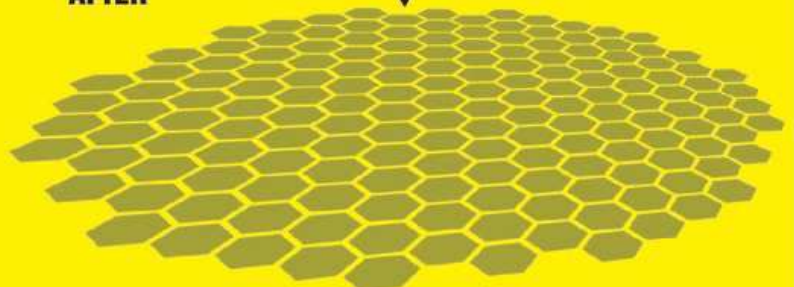
## LIGHT INTENSITY UNIFORMITY

Light engine with calibrated luminous intensity uniformity ensures evenly distributed luminous intensity for the projection.

**BEFORE**

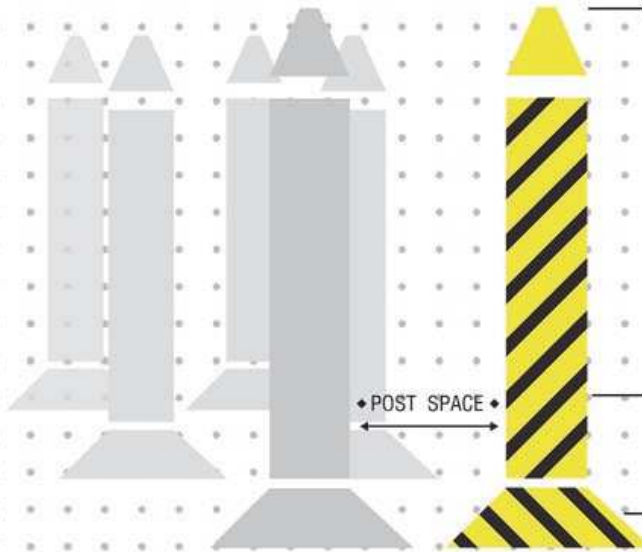


**AFTER**



# JEWELRY SUPPORT MODE

Support mode catered for jewelry and accessories. Advanced settings for more flexible support structures.



- ◆ TIP DIAMETER
- ◆ POST DIAMETER
- ◆ BASE HEIGHT
- ◆ BASE DIAMETER



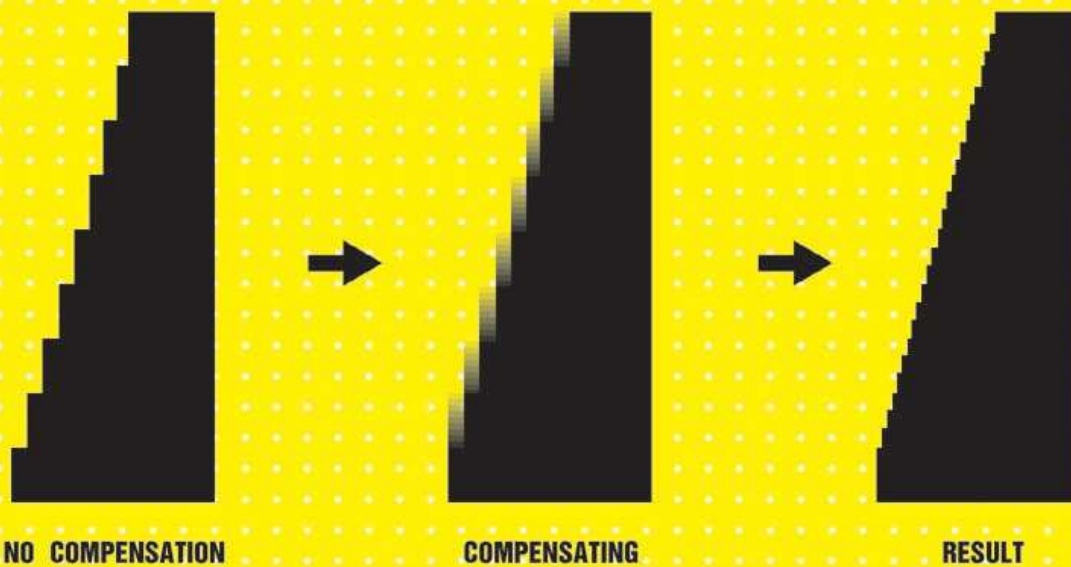
# BUILT-IN RESIN SETTINGS

Default printing parameters for different types of resin are built in the slicing software. Choose one of the defaults to start printing right away or modify parameters for advanced settings.



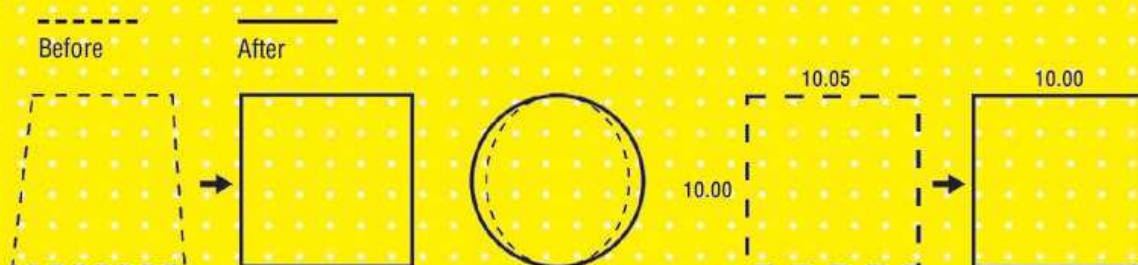
# GRAY COMPENSATION ALGORITHM

Gray compensation algorithm enables smoother model surface.



# DISTORTION CORRECTION ALGORITHM

Distortion correction algorithm ensures higher dimensional accuracy of the prints.



# RESIN PARAMETERS



## FH1100

### STANDARD RESIN

|  |                       |
|--|-----------------------|
| Appearance   | Gray                  |
| Density (g/cm <sup>3</sup> )                           | 1.14                  |
| Viscosity (cps)  | 350 cps (25°C)        |
| Critical Exposure E <sub>c</sub> (mJ/cm <sup>2</sup> ) | 12 mJ/cm <sup>2</sup> |
| Penetration Depth (dp)                                 | 0.2 mm                |



## FH1200

### CASTABLE RESIN

|  |                         |
|--|-------------------------|
| Appearance   | Yellow                  |
| Density (g/cm <sup>3</sup> )                           | 1.12                    |
| Viscosity (cps)  | 350 cps (25°C)          |
| Critical Exposure E <sub>c</sub> (mJ/cm <sup>2</sup> ) | 6-13 mJ/cm <sup>2</sup> |
| Penetration Depth (dp)                                 | 0.16-0.2 mm             |



**PRINT**



**FINISHED RING**

## **luxaprint® 3D shell**

**BIO-COMPATIBLE RESIN**

**DETAX**  
Chemistry with passion

|  |                         |
|--|-------------------------|
| Appearance                                 | Skin                    |
| Density (g/cm <sup>3</sup> )               | 1.1                     |
| Critical Exposure Ec (mJ/cm <sup>2</sup> ) | 6-13 mJ/cm <sup>2</sup> |

**ISO 10993 BIOCOMPATIBILITY CERTIFIED**  
**EN ISO 13485 MEDICAL DEVICES STANDARD COMPLIANT**  
**ISO 13485 : 2003 STANDARD VERIFIED**



## **FH1400**

### **TOUGH RESIN**

|  |                          |
|--|--------------------------|
| Appearance                                 | Blue                     |
| Density (g/cm <sup>3</sup> )               | 1.1                      |
| Viscosity (cps)                            | 359 cps (25°C)           |
| Critical Exposure Ec (mJ/cm <sup>2</sup> ) | 15-18 mJ/cm <sup>2</sup> |
| Penetration Depth (dp)                     | 0.1 mm                   |



### **COMPATIBLE THIRD PARTY RESIN BRANDS**

MadeSolid / Ackuretta Materials / Unishape



**HEARING AID**



**DENTAL**



**JEWELRY**



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