makeblock 创客工场

Airblock扩展包激光切割制作指南 Airblock Add-on Pack Laser Cut Producing Guide

Part 1测试板 Test Board

△ Airblock 扩展包(以下称扩展包)将以开源形式提供扩展包制作图纸和调试文件, 为您的创造提供完整支持。 Airblock add-on pack(hereinafter referred to as add-on pack) would provide open souce add-on pack prodution drawings and debug files to provide fully support to your creation.

Step1:

首先制作测试板
 First, to make a test board.

 选择"扩展包零件制作文件包",进入"激光制作文件"文件夹,打开测试板制 作文件,制作测试板。

Select "Add-on parts making instructions file"enter " Laser Producing Documents" folder, and open the test board producing documents to make the test board.

Step2:

- 测试木板,选择合适制作文件
 To test the board, select the suitable producing document.
- 测试板厚

Test the thickness of the board.

测试板切割好之后,将测试板B放置于测试板的刻度卡槽中,对比松紧度(建议选择较紧卡位),根据适宜的刻度选择相应的切割文件。

Put test board B into the scale slot of test board after you have cut it, and contrast the tightness of them(suggested to choose the position which is tighter), then select the corresponding producing documents with suitable scale.

以右图为例, 刻度2.8为松紧度适宜, 在"激光制作文件"文件夹中选择"2.8"的文件进行制作。 As the figures above, scale 2.8 is the suitable tightness, so we select the document named "2.8" in "Laser Producing Documents" to cut the board.

小贴士:

建议板厚:2.6-3.0mm 建议最小木板尺寸:278mmX227mm 案例图纸预览:点击"<mark>图纸预览</mark>"文件夹获取 注:测试板文件包含两块测试板(测试板A,测试板B) Notice: The test board doucument contain two test boards(test board A, test board B)



测试板A: 板厚刻度板 Test board A: thickness scale plate

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测试板B: 实际使用的木板 Test board B: the actual used board



Tips:

Suggested thickness of board: 2.6-3.0mm Suggested minimum size of board: 278*227mm Case drawings preview: Tap "**Drawings Preview**" folder to get.

Part 2零件切割& 雕刻 Parts Cutting & Engraving

根据效果需要,零件制作中会用到切割、雕刻两种工艺方式,在制作时选择相应的制作工艺文件。

Accroding to the effects which you want, it would be used the craft of cut and engrave when you producing the parts. You need to select the suitable craft documents when producing.

以跳舞小球Dancing ball案例为例:

Take Dancing Ball case as an example:

Step1:

预览图纸
 Drawings preview

进入"图纸预览"文件夹,打开相应图纸。
 Open the Drawings Preview file to unfold the drawing.



在实际切割文件中,蓝色线条为激光雕刻实色,红色线条为激光雕刻线条,白色为激光切割。

When in actual cutting document, the bule lines were laser engraving solid color, the red lines were laser engraving line, the white were for laser cutting.

零件切割&雕刻 Part2 Parts Cutting & Engraving

Step2:

- 在相应板厚文件夹中打开"跳舞小球"文件夹
 Open the Dancing Balls folder in the Board Thickness folder.
- 每个案例含4个图纸文件,分别为:
 There're 4 drawings in each case, they are:
- Line engrave solid激光雕刻实色,即实色雕刻,以雕刻模式制作。
 Line engrave solid. Use laser to engrave the solid color, that is solid color engraving.
 It is producing in engraving mode
- ② Line engrave激光雕刻线条,即刻画轮廓线,以最低功率切割模式制作,注意不要切穿。 Line engrave. Use laser to engrave the line, that is to draw the outline. It used the minimum power mode to cut. Please pay attention not to cut through the board.
- Cutting line激光切割,即切割线条部分,以适宜功率切割模式制作。 Cutting line. Laser cutting, that is part of cutting line. It used the suitable power to produce.
- Original drawing初始文件,为完整制作文件(含雕刻和切割部分)。
 Original drawing. Origial document, it is the whole producing document(contains engraving parts and cutting parts).

注:马戏小丑不需要实色雕刻,没有Line engrave solid文件 Notice: Swing puppets do not need solid color engraveing, so there is no line engrave solid document.

如果对激光切割机操作不熟知,建议按照以上1-3的步骤依次制作

Notice:1 If you're not familiar with the operation of laser cuttingmachine, please produce it by step1 to 3 in turn.

② 如果对激光切割机有一定操作经验,可以直接使用"初始文件"进行制作。

If you have some operation experience of laser cutting machine, you can use "Orginial drawing" directly.

③ 由于激光切割机及相应切割软件不同,可能出现"Original drawing初始文件"不显示分层线条,如果不显示,可以按照 1-3步骤制作。

As the laser cutting machines and the relevant softwares have differences, the lines may not be hierarchical when in "Original drawing". If it happened, you can produceit according to step1-3.

扩展包零件搭建请参阅[Airblock扩展包搭建说明]或makeblock APP案例指南
Add-on pack constraction please refer to "Airblock Add-on Pack Constracion Guide" or makeblock App cases guide.

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