

Excellon Import from Eagle to CamBam in millimeters

1 - Under Eagle

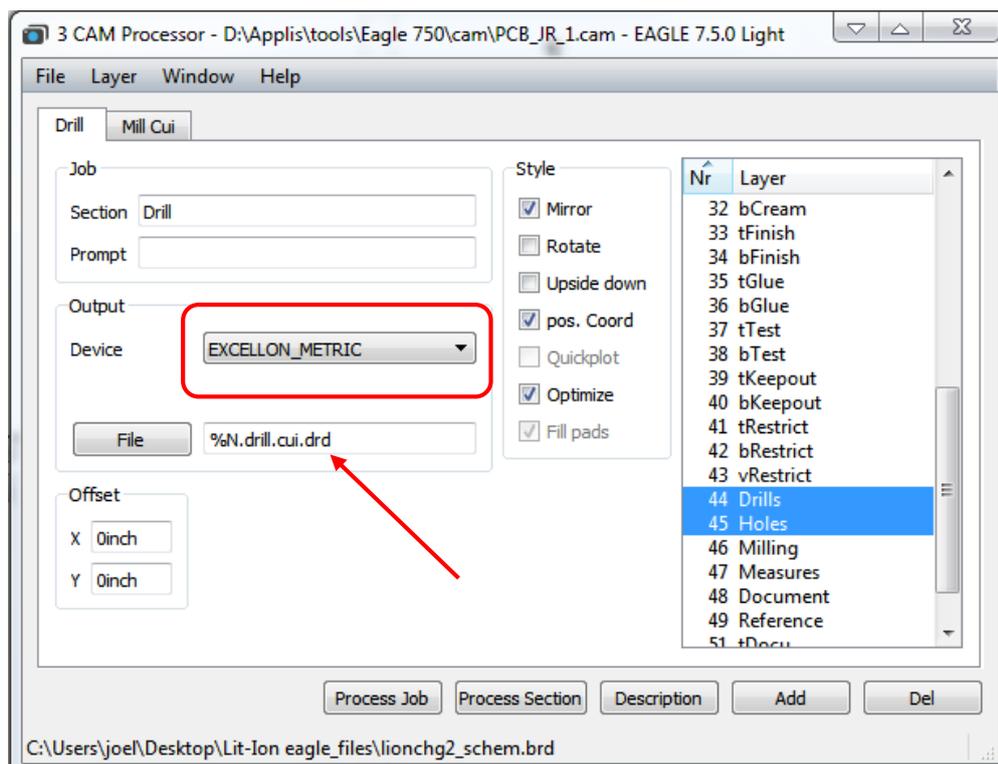
1.1 – Add into `eagle.def` file the following section to create an Excellon Metric configuration and save file.

```
[EXCELLON_METRIC]
Type = DrillStation
Long = "Excellon drill station (metric units)"
Init = "%%\nM48\nM71\n"
Reset = "M30\n"
ResX = 25400
ResY = 25400
;Rack = ""
DrillSize = "%s C%0.2f\n" ; (Tool code, tool size)
AutoDrill = "T%02d" ; (Tool number)
FirstDrill = 1
BeginData = "%%\n"
Units = mm
Decimals = 2
Select = "%s\n" ; (Drill code)
Drill = "X%1.0fY%1.0f\n" ; (x, y)
Info = "Drill File Info:\n"\  
      "\n"\  
      " Data Mode : Absolute\n"\  
      " Units : 1/100 mm\n"\  
      "\n"
```

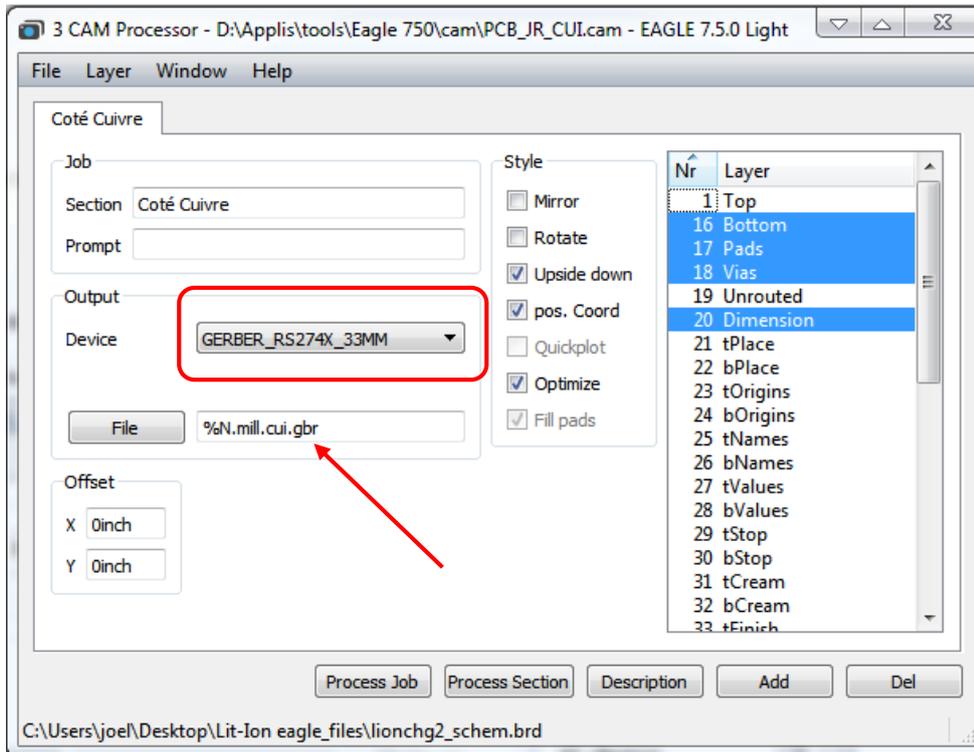
1.2 - Launch CAM processor : File -> Cam Processor or following icon



1.3 - Create **Drill** configuration



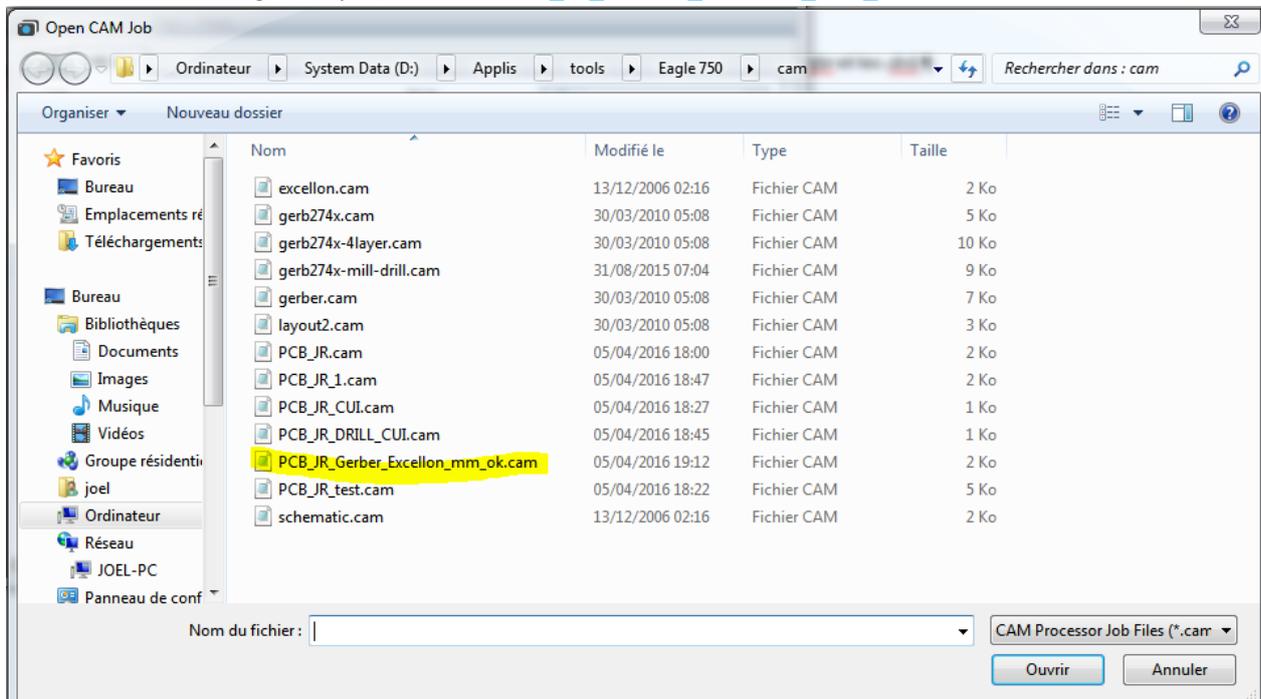
1.4 - Create Mill Configuration



I'm only showing here Drill and Mill from copper side. Duplicate copper side for component side (if you have a double face PCB). Don't forget to select appropriate layers !!

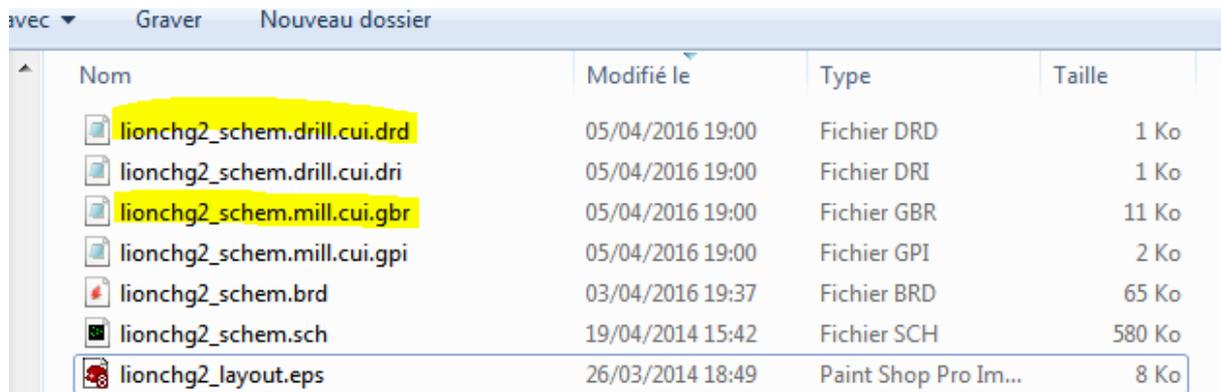
File extensions are important for next steps.

1.5 - Save the file created (File -> Save as) and put your own file name. This file will be used for future PCBs. In the following example, I created [PCB_JR_Gerber_Excillon_mm_ok.com](#).



1.6 - Process Job.

4 files are created. 2 are of interest to us for CamBam import : [.gbr](#) and [.drd](#).



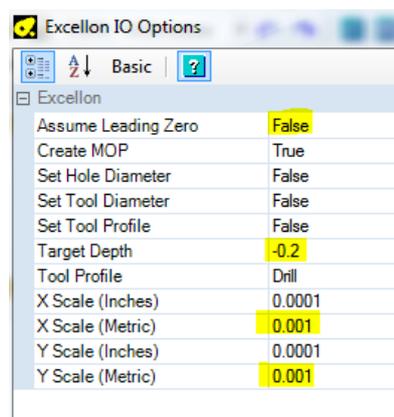
Nom	Modifié le	Type	Taille
lionchg2_schem.drill.cui.drd	05/04/2016 19:00	Fichier DRD	1 Ko
lionchg2_schem.drill.cui.dri	05/04/2016 19:00	Fichier DRI	1 Ko
lionchg2_schem.mill.cui.gbr	05/04/2016 19:00	Fichier GBR	11 Ko
lionchg2_schem.mill.cui.gpi	05/04/2016 19:00	Fichier GPI	2 Ko
lionchg2_schem.brd	03/04/2016 19:37	Fichier BRD	65 Ko
lionchg2_schem.sch	19/04/2014 15:42	Fichier SCH	580 Ko
lionchg2_layout.eps	26/03/2014 18:49	Paint Shop Pro Im...	8 Ko

2 – In CamBam

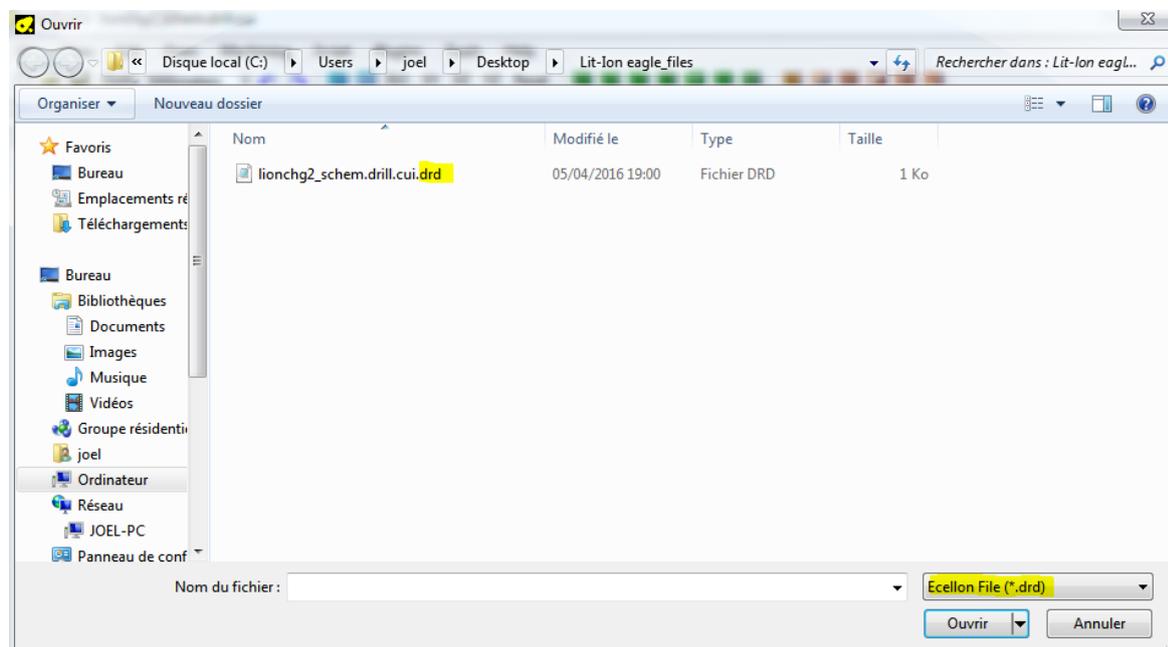
2.1 – Open 2 instances of CamBam

2.2 - Configure the Excellon Import plug in in both cases. Plugins Menu -> ExcellonIO Config

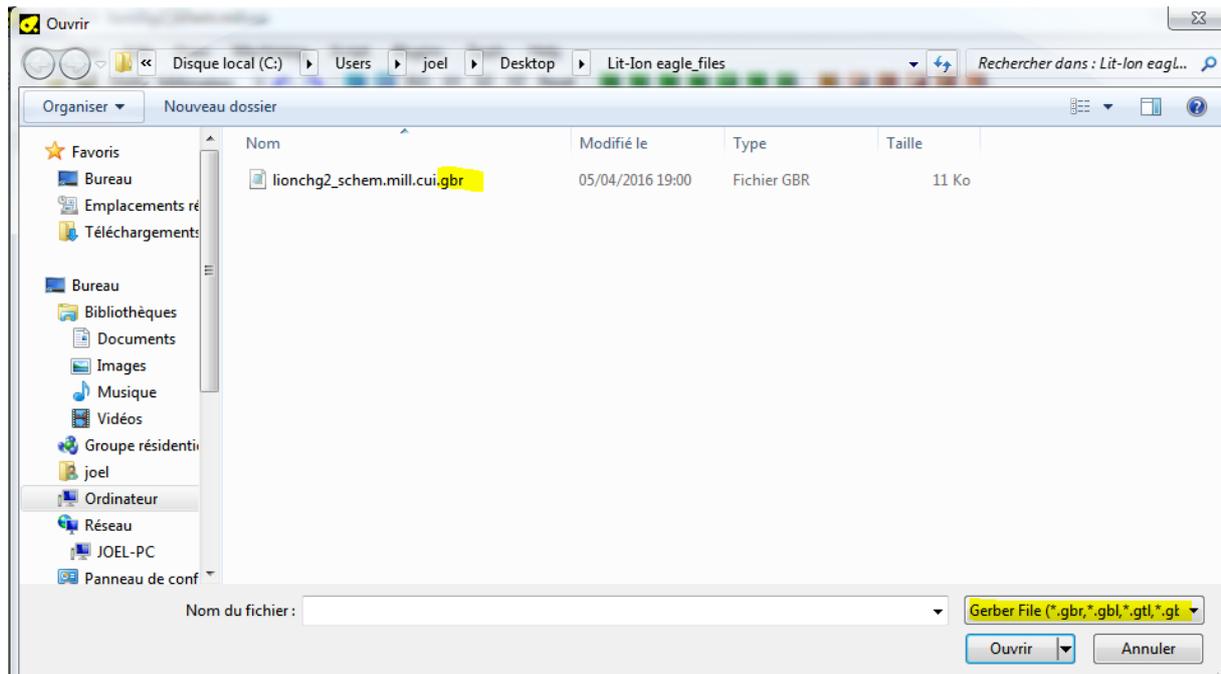
Excellon Configuration is shown below for the Excellon Metric shown in 1.1



2.3 - Import the Drill file (Excellon) in first CamBam instance. Select correct [.drd](#) extension (there are 2).



2.4 - Import the Mill file (Gerber) in the second instance of CamBam



2.5 - Cut & paste layer from one instance to the second instance of CamBam to have both mill and drill in the same file.

2.6 - Check if mill and drill are aligned. Optimise milling and drilling in Cambam, as usual.

2.7 – save the file...

2.8 – Nice milling and drilling of your PCB.

Joel – Avril 2016