

# G0xin Movies

## Introduction

This document contains a brief description of the movies, which cover the main features of the software. The link for downloading each movie (MP4 file) has also been mentioned, at the start.

### 1) Automation

#### Link

<http://www.g00.in/doc/m01.mp4>

#### Illustrations

- 1) Bill of Materials (BOM) : Find the file, open it, see how each part is defined in a new row, close the file.
- 2) Inventory (INV) : Find the file, open it, see how each sheet is defined in a new row, close the file.
- 3) Materials : Find the file, open it, add a new row for the new material & thickness (if required), close the file.
- 4) G0xin : Launch, create a new job such that all the major tasks are carried out automatically (including shortlisting)
- 5) Confirm : Open each shortlisted layout one by one and confirm it, use the 42 digit password each time
- 6) Result : Show the 3 newly created cnc code files

### 2) Plan

#### Link

<http://www.g00.in/doc/m02.mp4>

#### Illustrations

- 1) Part drawings : Add while creating a job (or later)
- 2) Fresh sheets (Rectangle) : Add while creating a job (or later)
- 3) Auto leaders : Add while creating a job (or later)
- 4) Auto sequence : Generate while creating a job (or later)
- 5) Multiple layouts : View
- 6) Re-nest : Auto nest all the parts & sheets once again
- 7) Summary : % Efficiency, weight, length of cut, piercing points, size, material, thickness
- 8) Printed report : Statistical page, Graphics page
- 9) Plan file : Automatically generated

### 3) Nest

#### Link

<http://www.g00.in/doc/m03.mp4>

#### Illustrations

- 1) Open a plan file
- 2) Manual nesting : copy / remove / slide / slide by fixed distance / move / rotate parts
- 3) Drag & drop part drawing files
- 4) Undo / Redo
- 5) Build : Add new parts without disturbing the existing layout
- 6) Common Cut : Slide parts towards each other to get common cut (automatically as well as manually)

## 4) Optimization

### Link

<http://www.g00.in/doc/m04.mp4>

### Illustrations

- 1) Simple nesting : Create a new job using simple nesting method.
- 2) Efficiency : Note down the following 3 values at the end of simple nesting process.
  - (a) Total weight of all the pieces nested. (Higher, the better ++)
  - (b) Total no. of sheets used. (Lower, the better --)
  - (c) Total area occupied by the last nested sheet. (Lower, the better --)
- 3) Advanced nesting : Run advanced nesting for 15 minutes. Find out which is the best nested result after 15 minutes.
- 4) Compare : Open the best result file. Compare the efficiency between old & new nested layout. New layout is better if :
  - (a) Total weight of the all the pieces increases.
  - (b) Total no. of sheets used decreases. (Total weight of all the pieces remains same.)
  - (c) Total area occupied by the last nested sheet decreases. (Total piece weight & total sheets remaining the same.)

## 5) Shortlist

### Link

<http://www.g00.in/doc/m05.mp4>

### Illustrations

- 1) Shortlist: Remove the layout on your screen from the plan file and save it in a separate file.
  - (a) Open a plan file, containing multiple layouts.
  - (b) Display the desired layout on your screen.
  - (c) Shortlist it.
  - (d) The software will show you the name of the shortlisted file.
  - (e) Ensure that the sheet as well as all the nested parts have been removed from the plan file.
  - (f) Close the plan file.
  - (g) Open the shortlisted file and ensure that it contains the same layout which you have selected in step (2.b).
- 2) Edit : Open and modify a shortlisted layout. (It is not advisable to do so. Do this only if it is necessary.)
- 3) And, there is one more option that will shortlist all the layouts as soon as they are generated, while creating a new job.

## 6) Confirm

### Link

<http://www.g00.in/doc/m06.mp4>

### Illustrations

- 1) Confirm : Confirm a layout and generate all the result files.
  - (a) Open a plan file and try to confirm it. You will not be able to do so.
  - (b) Next, open a shortlisted file, which can be confirmed.
  - (c) If necessary, generate an offcut.
  - (d) Select the menu : Layout > Confirm.
  - (e) Type the password.
  - (f) You may see some errors.
    - If the errors required further modifications, break the command. Else, go ahead.
  - (g) If you choose to go ahead, the software will write all the output files and inform you when the process is over.
    - At times, you may have to select / type some information while the software is confirming the layout.
    - At times, you may also see some warnings on your screen. (Some may be important, some may not be.)
  - (h) Make sure that you are not able to modify the layout now.

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- (i) Check the output files.
  - CNC code file
  - Updated monthly report file. (Check the link to the picture of the nested layout.)
  - Cost file. (Check dynamic cost calculations.)
  - Offcut, in case you have created it. (Folder name consists of material name & thickness multiplied by 10.)
- (j) Some output data can be generated anytime, before as well as after confirmation. (Eg. printed report.)

## 7) Leaders

### Link

<http://www.g00.in/doc/m07.mp4>

### Illustrations

- 1) Leader options : Check the main leadin / leadout options.
  - (a) Leadin / leadout dimensions in the material table.
  - (b) Create leadin / leadout while nesting a new job for the very first time.
  - (c) Remove leadin / leadout automatically as well as manually.
- 2) Add leader - auto : Add leadin / leadout automatically to the selected shapes.
  - (a) Specify leadin / leadout style for automatic leaders.
  - (b) Select the shapes to which you want to add leadin / leadout
  - (c) Select this operation.
  - (d) Select the method for adding leadin / leadout automatically.
- 3) Add leader - manual : Add leadin / leadout manually.
- 4) Add leader - semi : Add leadin / leadout in batch mode, by clicking the right mouse button.
  - (a) Specify the style as well as dimensions of leadin / leadout.
  - (b) Keep clicking wherever you want to add leadin / leadout.
    - Click Right Mouse button to snap the point to a corner point / quadrant point / mid point, etc.
  - (c) Press the <Escape> key to stop the command.
- 5) Extend leader : Extend the selected leadin / leadout by specified distance.
- 6) Copy leader : Copy the selected leadin / leadout on all other similar profiles.
  - (a) Select all the pieces on which you want to copy leadin / leadout.
  - (b) Select this operation.
  - (c) Click on the root (meeting point) of the leader, which you want to copy elsewhere.

## 8) Sequence

### Link

<http://www.g00.in/doc/m08.mp4>

### Illustrations

- 1) Sequence- Job creation : Create the cutting sequence automatically while creating a new job.
- 2) Sequence- Auto & Manual : Generate the sequence automatically, after nesting.
  - (a) First, check the warning shown by the software.
  - (b) Correct the sequence manually.
  - (c) Generate the cutting sequence again.
- 3) Sequence - Parts - Touch : Sequence the parts in the order in which they touch the selected line.
  - (a) Draw a line such that it touches / cuts the parts in the desired sequence.
  - (b) Select this operation.
  - (c) Click on the line drawn in step (4.a).
- 4) Sequence - Cycles - Corners : Sequence the cycles nearest to the specified corner points (end points).
  - (a) Draw a line by clicking near the desired cycles, in the order in which you want to sequence them.
  - (b) Select this operation.

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- (c) Click on the line drawn in step (5.a).
- 5) Common cut sequence : General sequencing method, in case of common cut.
- 6) Commands for simulation and for showing/hiding cutting plan