

# Yield Reports

Razor Optimal Yield Report Analysis V2.0

## Introduction

In the Yield Report software, click Select Files, and navigate to the location where you have specified the yield reports to be placed in the Razor Optimal software.

Select as many yield reports as you wish to examine data for. Yield report file name uses the date and time when the report was generated. For example, a yield report file, 1-19-2010\_16-41.yrp, was generated on 1/19/2010 at 4:41 pm (the 16-41 is in 24 hour time).

When you open yield report files, the information in all the files is combined and displayed in the top table, with 1 row for each board run through the machine when Yield Report Generation was enabled.

For each board in the top table, the information shown includes:

- BoardLength: The length of the board.
- NetBoardLength: The length of the board minus the low limit.
- ClearLength: This is the length of clear spans available for cutting parts. It is the NetBoardLength minus the defects.
- LengthPartsCut: The total length of the parts cut from the board.
- TotalYieldPer: The yield based on the BoardLength, in percent.
- $TotalYieldPer = (100 * LengthPartsCut) / BoardLength$
- ClearYieldPer: The yield from the ClearLength, in percent.
- $ClearYieldPer = (100 * LengthPartsCut) / ClearLength$

## Summary

The user can also generate yield results for multiple boards. First, select the options in the Supplier, Material, Width, Start Date and End Date drop down lists, then click Filter. The boards that meet the criteria will be displayed in the top table.

When you click the "Summary" button, the information in the bottom table is generated using all the boards shown in the top table.

- Total Length: Sum of all BoardLength in top table. Net Length: Sum of all NetBoardLength in top table.
- Clear Length: Sum of all ClearLength in top table.
- Clear %:  $(100 * Clear Length) / (Net Length)$  Length Parts Cut: Sum of all LengthPartsCut in top table.
- Total Yield %:  $(100 * Length Parts Cut) / (Total Length)$
- Net Yield %:  $(100 * Length Parts Cut) / (Net Length)$
- Clear Yield %:  $(100 * Length Parts Cut) / (Clear Length)$

## Generating Yield Reports

To generate Yield Reports, in the Razor Optimal software yield reports must be enabled and a location specified for the files. In the Razor Optimal software, the Yield Reports are enabled from: MORE, Parameters, REPORTS The GENERATE YIELD REPORTS needs to be checked, and a drive/path specified. The "Select/Change Report Path" is used to specify the locations to save yield reports.

When GENERATE YIELD REPORTS is not checked, no information is saved.

Yield Reports are generated when:

- The number of boards exceeds 2000
- The software is exited (regardless of the number of boards that have been run).