

Lite Optimiser - Datasheet LO

Sheet optimising for custom Workshops

The Lite optimiser is designed for the smaller workshop. It is straightforward to use with a minimum of setup. It is for cutting lists with a wide variety of part sizes, small run quantities, typically cut '1 high'. The focus is on material savings rather than cutting time.

It is typically used with Sliding table saws, Vertical panel saws, or smaller Beam saws.

Cutting patterns can be directly downloaded to the Holzma Cadmatic 4 controller.

- Enter part sizes
- Optimise
- Patterns and cutting instructions

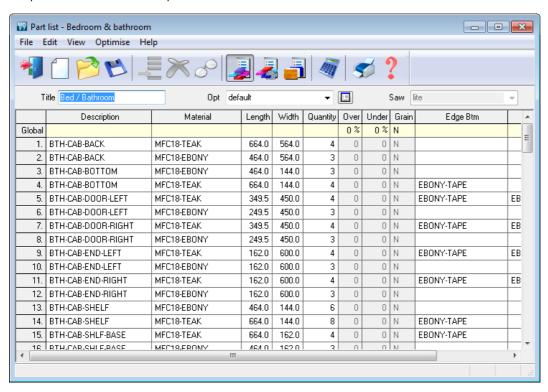


The starting point of optimisation is a list of part sizes. This can be produced in a variety of ways:-

- Enter sizes in the 'Part list' grid
- Cut and paste from a spreadsheet
- Import part sizes from external files

The result is a list of part sizes.

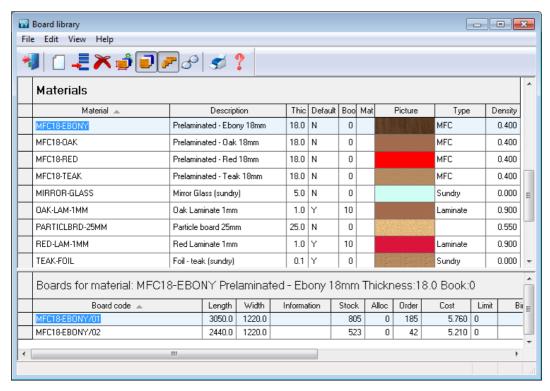
The part list is a list of sizes and quantities.



In this example there are a large number of different part sizes required in small quantities. Use the part list editor to check and adjust sizes as required.

Materials

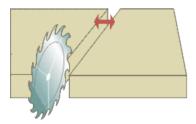
All materials are stored in the Board library. This is a database of all sheet material which includes quantities and material costs. The Board library stores a record for each material and a record for each board size for each material type.



In this example the material MFC18-EBONY has 2 available board sizes 3050.0 x 1220.0 and 2440.0 x 1220.0. The 'Material' column in the Part list associates each part with the correct material to use and the optimiser works out the optimum boards sizes to use for each job.

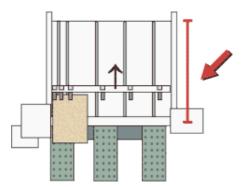


A set of optimising parameters describe the constraints on cutting; saw kerf, trims ...



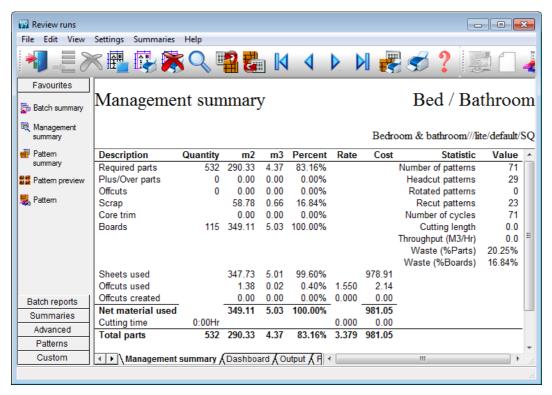


 $Another \ set \ of \ parameters \ (Saw \ parameters) \ are \ used \ to \ describe \ each \ saw; \ overall \ cutting \ length, \ cutting \ height \dots$



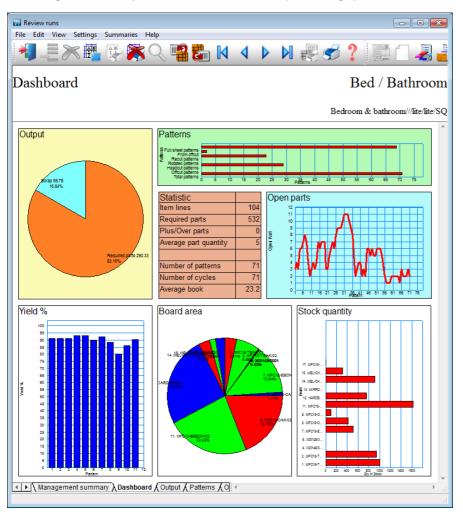
In this example the overall depth of the saw bed - which determines how boards are placed on the saw.

Optimisation produces the pattern layouts and a set of detailed reports on each job. The first report shown is an overall summary.



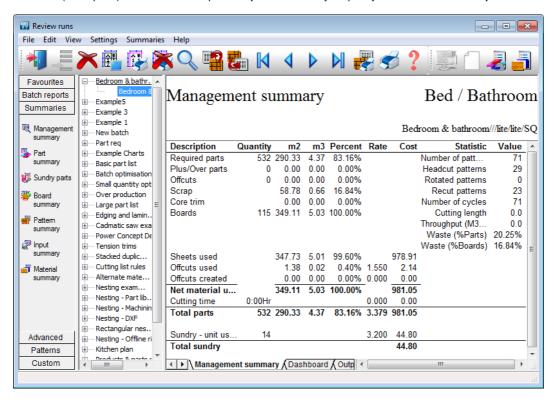
The summary shows the overall values for a job, for example, yield, material costs and types of pattern used.

The Management summary includes the Dashboard which provides a graphical view of the summary.



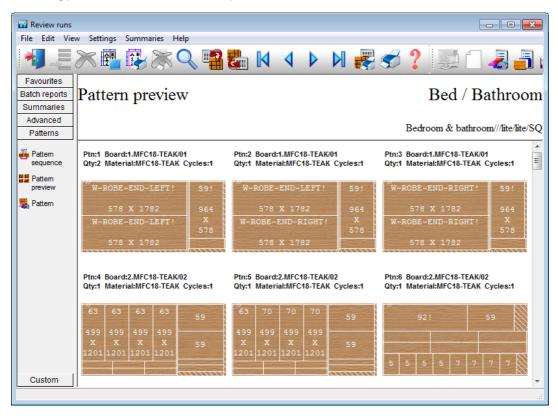
This can be customised for almost any view and to include charts from other summaries.

A window (Runs pane) shows the list of optimised jobs so it is easy to quickly check and review one job then another.



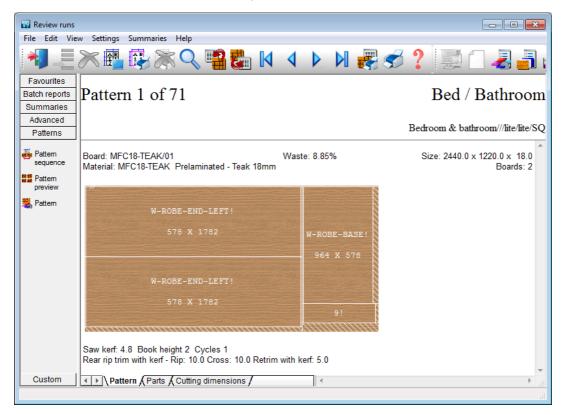
Use the tree to move between jobs.

The cutting patterns are shown in a thumbnail preview.



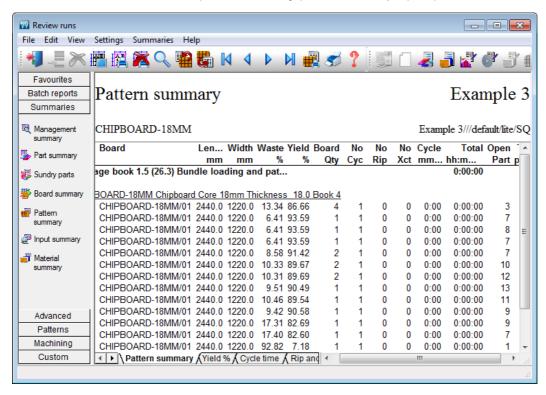
Click on a thumbnail for a detailed view.

The full screen view shows the full details of each pattern.



The tabs at the foot of each pattern show further details.

The various summaries include a list of patterns and cutting quantities, summary of parts produced, and a list of boards used.

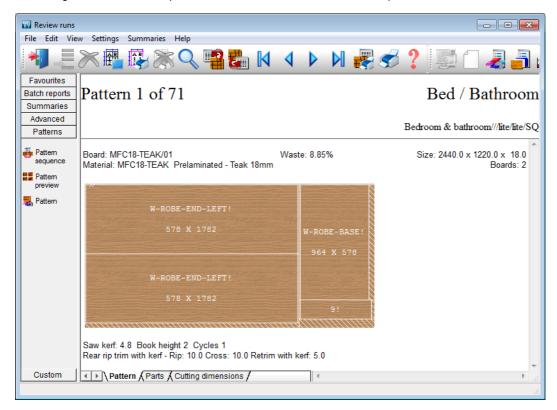


Summaries available include:-

Management summary Pattern summary Part summary Board summary Material summary Sundry parts

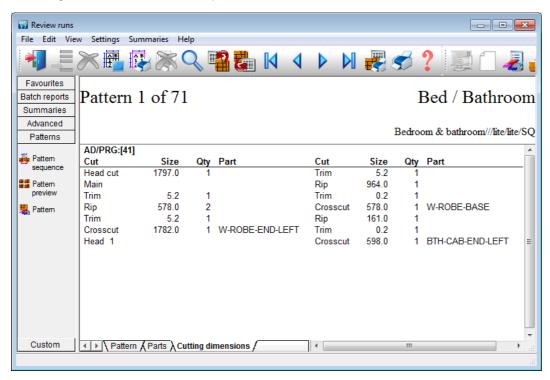
Cutting dimensions

The cutting dimensions for each pattern are shown on a tab at the foot of each pattern.



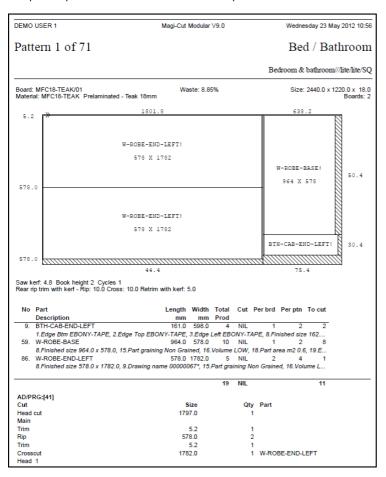
The tabs at the foot of the pattern give access to the different sets of information about the pattern.

The cutting dimensions are listed for each pattern.



The dimensions (and the pattern) can be printed for use at the saw.

The pattern print shows the full details for each pattern.





Optimising data can be sent directly to a saw with the Holzma Cadmatic 4 controller. The program is already set up for this.

Comparison of Optimisers

	Lite	Standard	Professional
Part List	LO	so	PO
Metric or Imperial dimensions	•	•	•
Grain/cross grain or ungrained parts	•	•	•
Exact quantity or over/under production	•	•	•
Maximum part sizes per part list (undivided)	10,000	20,000	20,000
Mixed material lists - unlimited materials per job	•	•	•
User-defined part list information fields	99	99	99
Configurable part list editor	•	•	•
Grain match - master part templates		•	•
Import			
Import part/cutting lists from user-defined csv, xls(x)	•	•	•
Import board lists from user-defined csv, xls(x) files	•	•	•
Import patterns - from PTX		•	•
Cutting list			
Multiple boards & offcut sizes per job	•	•	•
Cutting list rules - user defined tables	•	•	•
Allow alternative materials per part		•	•

Comparison of Optimisers (continued)

	Lite	Standard	Professional
Optimising	LO	so	PO
Small/medium quantity sheet optimiser	•	•	•
Timber/workshop cross cut optimiser	•	•	•
Strip production optimiser			•
Full sheet over production optimiser			•
Volume optimisation			•
Auto optimiser selection			•
Pattern complexity controls	Limited	Limited	•
Saw kerf & trim settings	•	•	•
Separate kerf for rip and crosscut saws			•
Optimisation based on material cost	•	•	•
Optimisation based on cost (material + cutting time)			•
Vertical strips in head cut patterns			•
Maximum part sizes per optimisation	10,000	10,000	10,000
Maximum pieces per optimisation	10,000	10,000	Unlimited
Faster optimisation with multi-core processors	•	•	•
Batch optimisation multiple lists - up to 250 jobs	•	•	•
Strip production optimiser			•
Full sheet over production optimiser			•
Volume optimisation			•
Extended optimisation parameters		Limited	•
Control of open parts or pallet groups			•
Control of part priorities			•
Control of 'plus part' preference			•
Free cut analysis			•
Material parameters		•	•
Mixed material stacks			•
Re-optimisation of remaining (unproduced) parts			•

Comparison of Optimisers (continued)

	Lite	Standard	□rofessional
Export	LO	so	PO
Export report data to Access database	•	•	•
Export summaries to XLS(X) files	•	•	•
Export summaries to PDF	•	•	•
Export patterns to DXF files	•	•	•
Reports, forms and labels			
Batch, job summaries	•	•	•
Part, Board, Material and pattern summaries	•	•	•
Offcut summary	•	•	•
Part costings - Weight calculations	•	•	•
Cutting time calculations/saw simulation report		•	•
Dashboard - graphs and bar charts	•	•	•
Configurable reports & summaries	•	•	•
Form design - part lists, patterns	•	•	•
Label design - includes bar codes & pictures	•	•	•
Labels for parts and offcuts	•	•	•
Stock			
Material library with boards and offcuts	•	•	•
Automatic stock issue from jobs	•	•	•
Import stock adjustment from file	•	•	•

Comparison of Optimisers (continued)

	Lite	Standard	Professional
Patterns	LO	so	PO
Thumbnail preview of patterns	•	•	•
Pattern display - colour coded or material texture	•	•	•
Pattern editor - add, move, delete parts	•	•	•
Cutting in ☐tructions for saw operator	•	•	•
Pattern Library -standard templates -grain match ptns.		•	•
Manual patterns		•	•
Beam saw interface			
Transfer to Single saw - Cadmatic 4 only	•	•	•
Transfer to online label PC		•	•
Transfer to Single saws - most types		•	•
Transfer to Angular saws			•
Transfer to Weeke Cutting centre			•
Transfer to Multiple saws/multiple saw parameter files		•	•
Tension trims, split waste, waste strip setting		•	•
Support for PCD device/split program fence		•	•
Support for combiTec - recut processing parameters			•
General			
File maintenance - copy/delete files	•	•	•
Backup & restore data	•	•	•
Integrated local (offline) comprehensive help	•	•	•
Link to website	•	•	•
User profiles	•	•	•
Windows XP/Vista/Win7/Win8 platforms	•	•	•
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