Version V8

Example Printouts

Revision 1.14

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Introduction

Welcome to V8

V8 is a comprehensive software package that covers most aspects of optimisation and production for the Woodworking industry. It is Windows software which runs on a PC. It provides all the information to keep control of costs, cut down errors, and cut material efficiently and effectively.

V8 deals with a variety of products.

- Kitchen cabinets
- Office furniture
- Shop fittings
- Doors
- Plastic fabrications
- Caravans
- Bathrooms
- Vanity Units

The following pages show a wide range of printouts from Version V8 and cover most of the reports and summaries available from the program.

There are illustrations from several different sorts of data to show the many different ways of working with the software.

Note

Text above and below each example is not part of the Printout but briefly describes the example and highlights important points.

Some Printouts are adjusted or cropped to fit on the page.

Quotes / Orders and Products

This section shows examples of the reports for the Quotes / Orders, Product library and Product requirements modules.

Many users choose to start the optimisation from a customer order or from a list of Product requirements. The program works out the part sizes and quantities for cutting using the definitions of each product in the Product Library.

There are reports for managing the order (Invoice, Despatch note etc.) and reports for managing the production process such as a breakdown of materials and costs.

The Label and Form Design module is used to create templates for printing reports with different layouts and content. A very wide range of customised reports can be created.

The software includes a variety of templates and examples of reports to help with the design process.

Quotes / orders Invoice - example of order processing document

	GLOB Furniture Telej	BAL FUR House, 27 Wood I phone: +44 (0)117 933 632	NITURE Lane, Bristol, BS1 2 3 Fax: +44 (0)117 933 64	2 L . 2xr, u 87	ГD тк	Order	invoice
Invoice date: 11/0	04/2006 Ord	er no. BSR QU-35	Our ref.		Y	our ref.	
Kitchens Ashford Roa Birmingham B11 2RX	Direct						
Order / item no.		Details			Quantity	Unit £	Total £
BSR QU-35/001	Code: Description: Finish:	BASE-SINGLE Single base unit MFC18-OAK	Width: 5 Height: 8 Depth: 6	500.0 870.0 600.0	7	41.08	287.56
BSR QU-35/002	Code: Description: Finish:	BASE-SINK Sink base unit MFC18-OAK	Width: 10 Height: 8 Depth: 6	000.0 870.0 600.0	2	43.82	87.64

Fig. 1

Note - complete invoice not shown. Invoices may consist of several pages and include continuation sheets, sub totals, final totals etc.

Product library - Catalog of products in the product library. Shows thumbnail pictures of each product.



The product library can include, products, sub-assemblies (e.g. drawer units or pedestals), fittings (hardware) and details of the operations on each products (e.g. assembly, clamping etc).

Product details - shows drawing and full details of a product definition.

DEMO USER 1	Mod	ular V8.20		Thursday 19 November 2009
Product details				
Code	Description	X Width	Y Height	Z Depth
BASE-DOUBLE	Double base unit	1000.0	870.0	600.0
Memo 1. 2. 3. 4	. 5. 6. 7. 8. 9	. 10.		
Price (fx) Vertical position Answer table	=IF((X<=1000),33.00,42.20)			
Code Quant:	ity / Time Description	Mate	rial	Length Width
D-BASE-END-LEFT Length: =Z-T	1 Double base uni (@DOORMATERIAL@)	t end L ®CAR	CASEMATERIAL®	=Z-T(@DOO =Y
D-BASE-END-RIGHT Length: =Z-T	1 Double base uni (@DOORMATERIAL®)	t end R @CAR	CASEMATERIAL®	=Z-T(@DOO =Y
BASE-BACK Length: = STN	1 Base unit back	®BAC Width =	KMATERIAL® SBACK PANEL HET	=&INTERNA =&BACK_PA
D-BASE-BOTTOM	1 Base unit floor	@CAR	CASEMATERIAL®	=&INTERNA =Z-T(@DOO



Product details - Product library can be used to define a very wide range of products and product ranges for fixed size items and parametric products.

DEMO USER 1		Modular V8.20		Thursday 19 Nove	ember 2009
Product details					
Code	Description	X Widt	h Y Height	Z Depth	
BATHROOM-CABINET	Bathroom cabinet	700.0	600.0	180.0	
4emo 1. 2. 3. 4.	5. 6. 7. 8	3. 9. 10.			
Price (fx) 2: Jertical position Answer table	9.460				
			~		
	00				
ode Quantity	y / Time Descripti	ion	Material	Length	Width
TH-CAB-END-LEFT Length: =Z-T(@0	1 Bathroom CABINETMATERIAL@)	cabinet end L	@CABINETMATERIAL@	=Z-T (@CAB	=Y
TH-CAB-END-RIGHT	1 Bathroom	cabinet end R	@CABINETMATERIAL@	=Z-T (@CAB	=Y
Length: =Z-T(@G STH-CAB-BACK	LABINETMATERIAL®) 1 Bathroom	cabinet back	@CABINETMATERIAL@	=X-2*T(@C	=Y-2*T(@
Length: =X-2*T	(@CABINETMATERIAL@)	Wid	th: =Y-2*T (@CABINETM	ATERIAL®)	10
	1 Dethusen	aphinat top	OCADINETMATEDIALO	=X-2*T (@C	7 1000
3TH-CAB-TOP	I Bathroom	cabinet top	@CABINEIMAIERIAD®		=Z-1 (@CA

Product requirements - quantity and type of products required to fulfil an order.

DEMO	USER 1	Modular V8.20	Thursday 19 November 2009
Produ	ct requirements		Kitchen layout
Ref B Optim	SR CD-81 ising DEFAULT	Description Kitchen layout Saw DEFAULT	Over 0
No	Code Qt	Information Width	Height Depth
1.	BASE-CABINET 1 Description: Base unit - ca	001 Base unit - cabinet 900.0 inet	870.0 600.0
	DOORMATERIAL: MFC18-OAK BACKMATERIAL: HARDBOARD-4MM HANDLETYPE: Z-SINGLE SHELFDEPTH: 400.0 RH: 150.0	CARCASEMATERIAL: MED-D EDGING: OAK-TAPE-22MM FE: PH: 125.0	EN-FIBRE-18MM
2.	BASE-DOUBLE 1 Description: Double base un DOORMATERIAL: MFC18-OAK BACKMATERIAL: HARDBOARD-4MM HANDLETYPE Z-SINGLE SHELFDEPTH: 400.0 RH: 150.0	002 Double base unit 1000.0 t CARCASEMATERIAL: MED-D EDGING: OAK-TAPE-22MM FE: PH: 125.0	870.0 600.0 EN-FIBRE-18MM
3.	BASE-DOUBLE 1 Description: Double base un DOORMATERIAL: MFC18-OAK BACKMATERIAL: HARDBOARD-4MM HANDLETYPE: Z-SINGLE SHELFDEPTH: 400.0 RH: 150.0	003 Double base unit 1000.0 t CARCASEMATERIAL: MED-D EDGING: OAK-TAPE-22MM FE: PH: 125.0	870.0 600.0 EN-FIBRE-18MM
4.	BASE-DRAWER 1 Description: Drawers-@DOORM DOORMATERIAL: MFC18-OAK BACKMATERIAL: HARDBOARD-4MM HANDLETYPE: Z-SINGLE PH: 125.0	004 Drawers-MFC18-OAK 500.0 TERIAL@ CARCASEMATERIAL: MED-D EDGING: OAK-TAPE-22MM FE: RH: 150.0	870.0 600.0 EN-FIBRE-18MM
5.	BASE-SINGLE 1 Description: Single base un DOORMATERIAL: MFC18-OAK BACKMATERIAL: HARDBOARD-4MM HANDLETYPE: Z-SINGLE HINGE: LEFT PH: 125.0 DR: 1	005 Single base unit 500.0 t CARCASEMATERIAL: MED-D EDGING: OAK-TAPE-22MM FE: SHELFDEPTH: 400.0 RH: 150.0	870.0 600.0 EN-FIBRE-18MM

Fig. 5

Note- some items are represented by 'variables' such as DOORMATERIAL and HANDLETYPE. This means that these details (which may vary for each customer) can be entered when the order is taken and do not have to be set up in the product library.

Variables help to keep the product library small, flexible and easy to maintain

Product requirements details - full breakdown of product requirements in terms of the parts, fittings, subassemblies and operations.

DEMO	USER 1		Modula	ar V8.20		Thursday	19 Novemb	er 2009
Prod	uct requirements						Kitchen	layout
Ref I	BSR CD-81		Description H	Kitchen layout				
Optin	mising DEFAULT		Saw DI	SFAULT		Over	0	
NO	Code	Q	ty Information		Width	Height	Depth	
1.	BASE-CABINET Description: Base DOORMATERIAL: MFCI BACKMATERIAL: HARD HANDLETYPE: Z-SING SHELFDEPTH: 400.0 RH: 150.0	l unit - c 8-OAK BOARD-4M LE	001 Base unit abinet M	- cabinet CARCASEMA EDGING: O FE: PH: 125.0	900.0 ATERIAL: MED-I DAK-TAPE-22MM	870.0 DEN-FIBRE-1	600.0 8MM	
			•					
			•					
2			•					
Code		Qty	Description	Mate	erial	Length	Width	Qty/
BASE	-CABINET-END-LEFT	1	Base cabinet end	left MED-	DEN-FIBRE-18M	4M 582.0	870.0	1
BASE	-CABINET-END-RIGHT	1	Base cabinet end	right MED-	DEN-FIBRE-18M	MM 582.0	870.0	1
BASE	-CABINET-DRAWER-LONG	1	Base cabinet long	drawer MFC1	.8-0AK	900.0	184.3	1
100 M (C) (C)	-CABINET-DRAWER	3	Base cabinet drav	ver MFC1	.8-0AK	400.0	184.3	3
BASE	CARTNET DOOD	1	Bago gabinot deer	* MINON	0 034	100 0	EEC O	



Optimising product requirements - A list of product requirements is optimised to produce a set of cutting patterns. After each optimisation (run) the program provides a range of analyses and reports.

The first report shown is the Management summary with the overall material use, waste and costs of an optimisation (run).

DEMO USER 1				Modular V8.20			Thursday 19 November 2			
Managemen	t summa	ary					Ki	tchen layo		
MED-DEN-FIBRE-1	8MM			001	14/BSR (CD-81-02	/BSR CD-81-02/DEF.	AULT/DEFAUL		
Description	Quantity	m2	m3	Percent	Rate	Cost	Statistic	Value		
Required parts	156	43.28	0.78	84.60%			Number of patterns	11		
Plus/Over parts	0	0.00	0.00	0.00%			Headcut patterns	1		
Offcuts	2	3.80	0.07	7.43%			Rotated patterns	0		
Scrap		4.08	0.07	7.97%			Recut patterns	8		
Core trim		0.00	0.00	0.00%			Number of cycles	11		
Boards	11	51.16	0.92	100.00%			Cutting length	238.6		
							Throughput (M3/Hr)	0.7		
							Waste (%Parts)	18.21%		
							Waste (%Boards)	15.40%		
Sheets used		51.16	0.92	100.00%	4.500	230.24				
Offcuts used		0.00	0.00	0.00%		0.00				
Offcuts created		-3.80	-0.07	-7.43%	0.000	-0.00				
Net material used		47.36	0.85	92.57%	4.500	230.24				
Cutting time	1∶18Hr				50.000	64.85				
	450	40.00	0.70	94 609/	6 040	205.09				

Fig. 7

Note - the figures at the right include the throughput, number of saw cycles and overall waste. The optimisation uses the optimising and saw parameters to take into account the features of each saw and any limitations on the cutting patterns due to material or handling etc.

Note - where there is more than one run in a batch the Batch summary showing one line for each run is shown after optimising.

DEMO U	JSER 1		Modular V8.20	Thursday 19	November 2009
Produc	t costing				Kitchen lavout
Def DO	7D 01	De			
Contini	ofra DERMUT	Des	Cow DEBILL	0.000	
No	Codo	Otii	Information	Coat per product	Total cost
NO	coue	QUY	Information	cost per product	IOCAI COSC
1	DAGE CADINES	,	001 Para unit arbitat	00 755	02.755
±.	BASE-CABINEI	L Dogo unit gobinot	001 Base unit - Cabinet	83.755	83./55
2	Description:	Base unit - Cabinet	000 Double hage unit	E0 E3C	50 536
2.	Deceription.	Double bace unit	002 Double base unit	50.536	20.230
2	BACK-DOUBLE	Double base unit	002 Double bage unit	50 576	50 536
5.	Description.	Double hace unit	005 Double base diffe	50.550	50.550
A	BASE-DRAWER	1	004 Drawers_MEC18_OAK	67 023	67 023
T .	Description.	Drawerg_@DOORMATERIAL@	004 DIAWEIS MICIO OAR	07.025	07.025
5	BASE-SINGLE	DIAWCIS SDOORMIBRIADS	005 Single base unit	43 362	43 362
5.	Description:	Single base unit	ooo orngre babe anre	10.002	101000
6	BASE-CORNER	1	006 Corner cabinet	44.140	44,140
•.	Description:	Corner cabinet	COO COMMON CONDENCO		
7.	BASE-SINK	1	007 Sink base unit	45.826	45.826
	Description:	Sink base unit			
8.	BASE-SINGLE	1	008 Single base unit	35.976	35,976
	Description:	Single base unit			
9.	BASE-CORNER	1	009 Corner cabinet	44.140	44.140
	Description:	Corner cabinet			
10.	BASE-SINGLE	1	010 Single base unit	35.976	35.976
	Description:	Single base unit			
11.	BASE-DOUBLE	1	011 Double base unit	50.536	50.536
	Description:	Double base unit			
12.	BASE-DOUBLE	1	012 Double base unit	50.536	50.536
	Description:	Double base unit			
13.	BASE-OVEN-HSI	E 1	013 Oven Housing	70.132	70.132
	Description:	Oven Housing			
14.	WALL-SINGLE	1	014 Single wall unit	24.378	24.378
	Description:	Single wall unit			
15.	WALL-DOUBLE	1	015 Double wall unit	38.449	38.449
	Description:	Double wall unit			
16.	WALL-DOUBLE	1	016 Double wall unit	38.449	38.449
	Description:	Double wall unit		00 505	00 505
17.	WALL-SINGLE	¹	017 Single Wall unit	22.785	22.785

Product costing - breakdown of costs for each product requirement after optimisation

Fig. 8

The product costing summary shows the total cost for each item in the product requirement list and the cost per product.

Product costing details - for each item in the product requirement list there is a full breakdown of the costs.

DEMO USER 1	Modular V8.20		Thurs	sday 19 Noveml	per 2009
Product costing				Kitche	n layout
Ref BSR CD-81 Optimising DEFAULT	Description Kitchen layout Saw DEFAULT		c	Over 0	
No Code Qty	Information	Width	Height	Depth	
1. BASE-CABINET 1 Description: Base unit - cabi	001 Base unit - cabinet net	900.0	870.0	600.0	
DOORMATERIAL: MFC18-OAK	CARCASEMA	TERIAL: ME	D-DEN-FIB	RE-18MM	
BACKMATERIAL: HARDBOARD-4MM	EDGING: O	AK-TAPE-22	2MM		
SHELEDERTH: 400 0	FE: DH- 125 0				
RH: 150.0	TH: 125.0				
Code Qty De	scription Material	Length	Width	Item cost	Total
BASE-CABINET-END-LEET 1 Base	cabinet end MED-DEN-FIBRE-1	582 0	870.0	5 881	5 881
Description: Base cabinet end le	ft Material: MED-DEN-FIB	RE-18MM	0,010	5.001	0.001
BASE-CABINET-END-RIGHT 1 Base	cabinet end MED-DEN-FIBRE-1	582.0	870.0	5.881	5.881
Description: Base cabinet end ri	ght Material: MED-DEN-FI	BRE-18MM			
BASE-CABINET-DRAWER-LONG 1 Base	cabinet lon MFC18-OAK	900.0	184.3	3.962	3.962
Description: Base cabinet long d	rawer				
BASE-CABINET-DRAWER 3 Base	cabinet dra MFC18-OAK	400.0	184.3	2.279	6.836
PAGE-CARINET-DOOP	aphinot dog MEC18-ONK	400 0	EEC 0	2 9/7	3 947
Description: Base cabinet door	cabinet doo micit om	400.0	550.0	5.547	5.547
BASE-CABINET-BOTTOM 1 Base	cabinet bas MED-DEN-FIBRE-1	864.0	582.0	5.413	5.413
Description: Base cabinet base	Material: MED-DEN-FIBRE-1	8 MIM			
BASE-CABINET-RAIL-FRONT 2 Base	cabinet rai MED-DEN-FIBRE-1	864.0	150.0	2.520	5.040
Description: Base cabinet rail f	ront Material: MED-DEN-F	IBRE-18MM			
BASE-CABINET-RAIL-BACK 1 Base	cabinet rai MED-DEN-FIBRE-1	864.0	150.0	1.749	1.749
Description: Base cabinet rail b	ack Material: MED-DEN-FI	BRE-18MM		4 100	1 1 2 2
BASE-CABINET-DIVIDER I Base	Capinet div MED-DEN-FIBRE-I	550.0	533.3	4.130	4.130
BASE-BACK 1 Base	unit back HARDBOARD-4MM	876 0	735 0	1 460	1 460
BASE-PLINTH 1 Base	unit plinth MED-DEN-FIBRE-1	864.0	125.0	1.729	1.729
Material: MED-DEN-FIBRE-18MM					
BASE-CABINET-SHELF 1 Base	cabinet she MED-DEN-FIBRE-1	464.0	560.0	1.803	1.803
Description: Base cabinet shelf	Material: MED-DEN-FIBRE-	18MM			
+BUCDL 1 Ba	se cabinet drawer long	864.0	148.3	560.0	
BUDC-LEFT 1 Draw	er carcase 1 WHITE-ACRYLIC-1	560.0	136.3	1.320	1.320
BUDC-RIGHT 1 Draw	Material: WHITE-ACRYLIC er carcase r WHITE-ACRYLIC-1	560.0	136.3	1.320	1.320

Job costing - full details of all the costs for an optimisation including materials, edging, fittings (hardware), operations and machining costs.

DEMO USER 1	Modular V8.20					Thursday 19 November 2009		
lob costing					K	litche	n layo	
							BSR CD-	
Code	Description	Quantity	Linear	Area	Cost	Total		
Board	Material	Quantity		Area	Cost/m2	Total		
HARDBOARD-4MM/01	HARDBOARD-4MM 2440.0 x 1220.0	7		20.838	0.890	18.545		
MED-DEN-FIBRE-18M	MED-DEN-FIBRE-18MM 3050.0 x 15.	11		51.164	4.500	230.237		
MFC18-OAK/02	MFC18-OAK 2440.0 x 1220.0	6		17.861	2.970	53.047		
						301.829		
Sundry	Material	Quantity	Linear	Area	Cost	Total		
WHAC12/01	WHITE-ACRYLIC-12MM	36			1.320	47.520		
						47.520		
Edging	Description	Quantity			Cost/m	Total		
OAK-TAPE-22MM	Oak PVC Tape 22mm	167.700			0.840	140.868		
						140.868		
Fitting	Description	Quantity			Cost	Total		
Z-DOWEL	Dowel	485			0.120	58.200		
Z-DRAWER-SCREW	Acrylic drawer screw	65			0.120	7.800		
Z-RUNNER	Drawer runner	24			0.430	10.320		
Z-SHELF-SUPPORT	Shelf support	85			0.190	16.150		
Z-SINGLE	Single Knob	47			0.950	44.650		
ZDD4B-BROWN-HAND	Handle 4" D Brown	8			0.950	7.600		
ZH180-HINGE	Hinge 180 HKK123-321	82			0.400	32.800		
ZS25-6-ROUND-SCREW	Round Screw 25mm No6	283			0.010	2.830		
ZS40-8-CSUNK-SCREW	Csunk Screw 40mm No8	88			0.010	0.880		
						181.230		

Product labels - design and print labels for products and parts. Labels can include drawings, graphics and bar codes.

GI	LOBAL	NITURE LTD
	Order Ref: BSR CD-81	Title: Kitchen lavout
	PRODUCT D	DETAILS
	BASE-DOUI	BLE
	W [.] 1000 0	x H [.] 870.0 x D [.] 600.0
	Otra	
	Qiyi	BSR CD-81
	-	
GI	LOBAL	NITURE LTD
GI	Order Ref:	VITURE LTD Title:
GI	Order Ref: BSR CD-81	Title: Kitchen layout
GI	Order Ref: BSR CD-81 PRODUCT D BASE-DRAV	Title: Kitchen layout DETAILS WER
GI	Order Ref: BSR CD-81 PRODUCT D BASE-DRAV 004 Drawers	Title: Kitchen layout DETAILS WER S-MFC18-OAK
GI	Order Ref: BSR CD-81 PRODUCT D BASE-DRAV 004 Drawers W: 500.0	Title: Kitchen layout DETAILS WER S-MFC18-OAK x H: 870.0 x D: 600.0
G	Order Ref: BSR CD-81 PRODUCT E BASE-DRAV 004 Drawers W: 500.0 Qty:	Title: Kitchen layout DETAILS VER S-MFC18-OAK x H: 870.0 x D: 600.0 1 BSR CD-81

Customer database - use the customer database to hold the full contact details for each customer.

DEMO USER 1	Modular V8.20				Thursda	ay 19 November 2009	
Customer list							
Name	Code	Contact	Telephone	Fax	Postcode	Analysis 1	Note 1
Kitchens Direct Bedrooms Ltd MDF Inc. Cabinets & Chairs The Office Funiture	CS1001 CS1002 CS1003 CS1004 CS1005	John Smith Susan Jones Adrian Peter Allen Sally Curtis	0121 344 6798 0117 933 7892 0112 934 6798 01225 867721 0113 234 745	0121 455 3321 0117 934 6632 0112 462 7423 01225 867324 0113 234 745	B11 2RX BS1 1EX SO3 2HK BA2 3RJ PO3 6TT	MIDLANDS WEST SOUTH WEST SOUTH	Credit OK Check credit limit Credit OK Credit Limit: 5000 Credit Limit: 6500

Fig. 12

The database includes fields for custom analysis codes and for different pricing and discount options which are fully integrated with the products and order processing.

Variables, Formulae, Answers

The product library can be used to set up a single definition for a group of products. Typically the basic construction is the same but several items such as doors, colour, sizes may vary across the range. To do this the product definition must be flexible enough so these items can vary depending on style and colour chosen. A set of tables are used to set up the Variables, Formula and default answers.

The variables table is where the variables are set up. Typical examples are variables for the door colour, carcase material, type of handle etc.

DEMO USER 1				Mo	dular V8.20	Thursday 1	9 November 2009
Variables table							
No Name	Fmt	Dir	Туре	Inf	Description	Default	Range
1. DOORMATERIAL	0	1	1	0	Door Material	MFC18-OAK	
Range: MFC18-OAK,MFC18-BE	ECH, MH	C18-	-TEAK	, MFC	18-EBONY		
2. CARCASEMATERIAL	0	1	0	0	Carcase Material	MEL-CHIP-18MM	
Range: MEL-CHIP-15MM,MEL-	CHIP-1	.8MM					
CABINETMATERIAL	0	1	0	0	Cabinet Material	MFC18-TEAK	
Range: MFC18-EBONY,MFC18-	TEAK						
4. BACKMATERIAL	0	1	1	0	Back Material	HARDBOARD-4MM	
5. EDGING	0	3	1	0	Edging Material		
HANDLETYPE	0	2	1	0	Handle type	Z-DOUBLE	
Range: Z-DOUBLE, Z-SINGLE							
7. FE	1	0	0	0	Finished end? (Y/N)	Ν	Y,N
8. DOORLOCK	1	0	0	0	Door lock required? (Y/N)	Y	Y,N
9. HINGE	0	0	0	0	Hinge: Right or Left?	LEFT	
Range: RIGHT, LEFT							
10. SHELFDEPTH	2	0	0	0	Depth of shelf	400.0	
Range: 200:500							
11. ROOMNUMBER	0	0	0	0	Room number		
12. WOODWOP	1	0	0	0	Woodwop MPR Y/N?	N	Y,N
13. CUSTNAME	0	0	0	0	Customer name		
14. PH	2	0	0	0	Plinth height	125.0	
15. RH	2	0	0	0	Rail height	150.0	
16. DH	2	0	0	0	Drawer height	2000.0	
17. DR	1	0	0	0	Is drawer required?	Y	Y,N
18. WDT	0	0	0	0	Wall unit door type	SOLID	
Range: SOLID, GLASS							
19. CDR	2	0	0	0	Corner door length	250.0	

Variables table - stores all the variables used in defining products and parts.

Fig. 13

The library can include a full description of the variable and include a default value and limit the range of values that can be entered. This helps to make entry of product requirements simpler and reduces errors when the order is entered.

DEMO USER 1	Modular V8.2	20 Thursday 19 November 200
Formulae table		
No Name	Description	Formula
 SHELFWIDTH 	Shelf Width: Bases	=X-(2*T(@CARCASEMATERIAL@))
2. FITTINGS TYPE	Brass=1 or Other=0	=("@FIT@"="BRASS")
 SHELF QUANTITY 	Number of Shelves	=IF(Y<600,2,IF(Y<1200,3,5))
4. BACK PANEL HEIGHT	Height of back panel	=Y-T(@CARCASEMATERIAL@)-@PH@+8
5. INTERNAL WIDTH	Internal width	=X-(2*T(@CARCASEMATERIAL@))
6. DOOR HEIGHT	Door height (no drawer)	=Y-2-@PH@
 DOOR HEIGHT DRAWER 	Door height (with drawer)) =Y-4-@PH@-(Y-@PH@)/4
8. DOOR HINGE HOLE	Variable hinge holes	
=IF((@DR@), @PH@+&DOOR HEIGHT	DRAWER&-50,0PH0+&DOOR HEIGHT	<u>s</u> -50)
9. OVEN DRAWER	Over drawer height	=(((Y-@PH@-6)/3)-4)/3
10. CABINET DRAWER	Cabinet drawer height	= ((Y-8-@PH@) / 4)
11. DRESSER-DRAWER	Dresser drawer height	=(Y-T(@CARCASEMATERIAL@)-@PH@-12)/3
12. PDR	Unit price drawer	
CELL (BASE-DRW, @DOORMATERIAL	<pre>J@,STR((INT(X/100+1)*100)))</pre>	
13. PNDR	Unit price no drawer	
CELL(BASE-NODRW, @DOORMATER]	[AL@,STR((INT(X/100+1)*100)))	

Formula table - stores commonly used formula for Product and Part definitions.

Fig. 14

Some formula in product definitions are used throughout a range of products. A typical example might be the calculation of the height of a plinth. Use the formula library to store the common definitions. This also helps to reduce errors and make the product definitions easier to read and change.

Ans	wer table -	stores	a set c	of answers	to varia	ables	s which	defir	nes a	specific	range of	f prod	ucts.

DEMO USER 1	Modular V8.20	Thursday 19 November 2009
Answer table		Oak
Width Height	Depth	
Description	Default	
Door Material Carcase Material Cabinet Material	MFC18-OAK	
Back Material Edging Material Handle type Finished end? (Y/N) Door lock required? (Y/N) Hinge: Right or Left? Depth of shelf Room number	HARDBOARD-4MM OAK-TAPE-22MM Z-SINGLE	
Woodwop MRR Y/N? Customer name Plinth height Rail height Drawer height Is drawer required? Wall unit door type Corner door length		

Fig. 15

For a range of products such as 'Country style' kitchen cabinets each product may have a large number of variable items but the answer to many of them, such as finish, or handles may be the same across the range. Use the answer tables allow to store a set of answers for each range.

User defined tables - these are used with formula for products to define more complex relations. In the example the table is used to determine which back material is used for cabinets. This depends on the model range and the cabinet size.

DEN	MO USER 1		М		Thursday 19 November 20		
Use	r defined tables				Back		
Form	at: Text						
		1	2	3	4	5	6
		400	500	600	700	800	900
1	Georgian	HBD04	HBD04	HBD04	HBD06	HBD06	HBD08
2	Victorian	CT03	CT03	CT03	CT04	CT06	N/A
3	Classic	N/A	N/A	CT03	CT04	CT06	CT06
4	Modern	PL04	PL04	PL06	PL06	PL06	PL04
5	Delux	PL04	PL04	PL04	PL06	PL06	PL08

Part library and Part labels

This section shows examples of the Part library and Part labels.

The Part library stores commonly used parts or parts defined with formula (which describe types or styles of part).

DEMO	USER 1	M	odular V8.20	Wednesday	25 Novembe		2009
Part	library						
Code		Material	Description	Length	Width	Gr	Edge
BASE	-CABINET-BOTTOM Length =&INTERNAL Edge Btm: @EDGING	@CARCASEMATERIAL@ _WIDTH& @	Base cabinet base	*	*	N	0000
BASE	-CABINET-DIVIDER Length =Z-18-T(@B Edge Left: @EDGIN	@CARCASEMATERIAL@ ACKMATERIAL@)-T(@DOORM G@	Base cabinet divider ATERIAL®)	*	*	N	0000
BASE	-CABINET-DOOR Edge Btm: @EDGING	@DOORMATERIAL@ @ Edge Top: @EDGING@	Base cabinet door Edge Left: @EDGING@ Edge R	=X/2-50 ight: @EDGING@	*	*	0000
BASE	-CABINET-DRAWER Edge Btm: @EDGING	@DOORMATERIAL@ @ Edge Top: @EDGING@	Base cabinet drawer Edge Left: @EDGING@ Edge R	=X/2-50 ight: @EDGING@	*	*	0000
BASE	-CABINET-DRAWER-LONG Edge Btm: @EDGING	@DOORMATERIAL@ @ Edge Top: @EDGING@	Base cabinet long drawe Edge Left: @EDGING@ Edge R	r =X ight: @EDGING@	*	*	0000
BASE	-CABINET-END-LEFT Edge Left: @EDGIN	@CARCASEMATERIAL@ G@	Base cabinet end left	* =	Y	N	0000

Fig. 17

The Part library also stores fittings (hardware) and operations such as assembly or packing.

With the label design option a variety of templates can be created for part labels.

Labels can be printed in the office or at the saw.

Part library - catalog view of parts in the Part library.

DEMO USER 1	Modular V8.20	Wednesday 25 November 2009
Part catalogue		
BASE-CABINET-BOTTOM Base cabinet b * x * @CARCASEMATERIAL@) BASE-CABINET-DIVIDER Base cabinet * x * @CARCASEMATERIAL@	BASE-CABINET-DOOR Base cabinet doo * x * @DOORMATERIAL@
	e u e u u u z e e	· •
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	à
, • • • •	L L I I	1
BASE-CABINET-DRAWER Base cabinet d * x * @DOORMATERIAL@	l BASE-CABINET-DRAWER-LONG Base cabi * x * @DOORMATERIAL@	BASE-CABINET-END-LEFT Base cabinet * x * @CARCASEMATERIAL@
2 2	· · · · · ·	
0 0 0 0	I	

Fig. 18

The part library can contain a large variety of parts.

Some parts including machining and routing instructions. Some plain parts may not need any machining or an associated drawing.

EMO USER 1		Modular V8.20	C	Wednesday 25 N	November 200
art BASE-CABINET-BO	гтом				
inished size 864 x ut size 864 x	600 x 20.0 600 x 0.0	Quantity Base cab:	0 @C inet base	ARCASEMATERIAL@	
_		3			
		0		, 2 t	
		0			
		0		1.1	
x		5 4 0 00		t = .	
formation boxes ge Btm: @EDGING@					
de DGING@	Description	Material	Th	k Length Width	Core 0.0
chining drawings Fn Description	n Xstart Ystar	t Xend/ln Yend	Dir Dia/rad	Depth Rpt:off W	Vid/ang To
1 Hoore Dowel Hole Repeat: =(Y-80)/1 2 Hoore Dowel Hole Repeat: (Y 20)/1	$ \begin{array}{rcl} 0 & = Y - 40 \\ 3:3 & = X & = Y - 40 \\ 2:2 & = Y - 40 \end{array} $		D 10 D 10	25 3:=(Y-80 F 25 3:=(Y-80 I	د 1
<pre>kepeat: = (Y-80)/3 3 Saw Groove Ystart: =Y-18-T(4 4 Vbore Xstart: =X/2+50-</pre>	0 = Y-18 0 = Y-18 @BACKMATERIAL@)/2 =X/2+50- 15 (T (@CARCASEMATERIAL	-T(=X =Y-18-7 Yend: =Y-18-T(@BACK @)/2) Repeat: =(Y-8	F(90 MATERIAL@)/2 U 8 30)/3:3	8 Width: =T(@BACKMATERI 8 3:=(Y-80	=T(@BACK LAL@)
)5 Vbore	=X/2-25 15	······································	R 8	8 1:50	

Part library details - full information for each part including drawing and machining instructions.



Part costing summary - shows a summary of the costing for each part in an optimisation of a list of product requirements or a list of parts.

DEMO	USER 1	Modula	ar V8.20		Wednesda	ay 25 Novemb	per 2009
Part	costing - summary					B	SR CD-81
					Part	costing -	summary
No	Code /	Material /	Length	Width	Quantity	Cost	Total
	Description	Description				Per part	Cost
1.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	0.932	0.932
2.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	0.932	0.932
3.	BASE-BACK	HARDBOARD-4MM	876.0	735.0	1	1.460	1.460
4.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	1.583	1.583
5.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	0.932	0.932
6.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	0.932	0.932
7.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	1.583	1.583
8.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	1.583	1.583
9.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	1.583	1.583
10.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	1.583	1.583
11.	BASE-BOTTOM	MED-DEN-FIBRE-18MM	464.0	582.0	1	3.376	3.376
12.	BASE-BOTTOM	MED-DEN-FIBRE-18MM	464.0	582.0	1	3.376	3.376
13.	BASE-BOTTOM	MED-DEN-FIBRE-18MM	564.0	582.0	3	3.640	10.921
14.	BASE-BOTTOM	MED-DEN-FIBRE-18MM	464.0	582.0	1	3.376	3.376
15.	BASE-BOTTOM	MED-DEN-FIBRE-18MM	464.0	582.0	1	3.376	3.376
16.	BASE-CABINET-BOTTOM	MED-DEN-FIBRE-18MM	864.0	582.0	1	5.413	5.413
17.	BASE-CABINET-DIVIDER	MED-DEN-FIBRE-18MM	560.0	533.3	1	4.130	4.130
18.	BASE-CABINET-DOOR	MFC18-OAK	400.0	556.8	1	3.947	3.947
19.	BASE-CABINET-DRAWER	MFC18-OAK	400.0	184.3	3	2.279	6.836
20.	BASE-CABINET-DRAWER-LONG	MFC18-OAK	900.0	184.3	1	3.962	3.962
21.	BASE-CABINET-END-LEFT	MED-DEN-FIBRE-18MM	582.0	870.0	1	5.881	5.881
22.	BASE-CABINET-END-RIGHT	MED-DEN-FIBRE-18MM	582.0	870.0	1	5.881	5.881
23.	BASE-CABINET-RAIL-BACK	MED-DEN-FIBRE-18MM	864.0	150.0	1	1.749	1.749
24.	BASE-CABINET-RAIL-FRONT	MED-DEN-FIBRE-18MM	864.0	150.0	2	2.520	5.040
25.	BASE-CABINET-SHELF	MED-DEN-FIBRE-18MM	464.0	560.0	1	1.803	1.803
26.	BASE-DOOR	MFC18-OAK	500.0	743.0	1	5.171	5.171
27.	BASE-DOOR	MFC18-OAK	500.0	743.0	1	5.171	5.171
28.	BASE-DOOR	MFC18-OAK	500.0	554.8	1	4.380	4.380
29.	BASE-DRAWER	MFC18-OAK	600.0	245.2	3	3.141	9.423
30.	BASE-DRAWER	MFC18-OAK	500.0	186.3	1	2.766	2.766
31.	BASE-DRAWER	MFC18-OAK	500.0	184.3	4	2.548	10.193
32.	BASE-END-LEFT	MED-DEN-FIBRE-18MM	582.0	870.0	1	6.020	6.020
33.	BASE-END-LEFT	MED-DEN-FIBRE-18MM	582.0	870.0	1	6.020	6.020
34.	BASE-END-LEFT	MED-DEN-FIBRE-18MM	582.0	870.0	1	5.881	5.881
35.	BASE-END-LEFT	MED-DEN-FIBRE-18MM	582.0	870.0	1	5.881	5.881
36.	BASE-END-RIGHT	MED-DEN-FIBRE-18MM	582.0	870.0	1	5.881	5.881
37.	BASE-END-RIGHT	MED-DEN-FIBRE-18MM	582.0	870.0	1	5.881	5.881
38.	BASE-END-RIGHT	MED-DEN-FIBRE-18MM	582.0	870.0	1	6.020	6.020
39.	BASE-END-RIGHT	MED-DEN-FIBRE-18MM	582.0	870.0	1	6.020	6.020
40.	BASE-PLINTH	MED-DEN-FIBRE-18MM	864.0	125.0	1	1.729	1.729
41.	BASE-PLINTH	MED-DEN-FIBRE-18MM	964.0	125.0	1	1.846	1.846

Fig. 20

Shows the cost per part and the total cost based on the quantity of each part.

Export - part costing data can be exported to another system.

Part costing full - details of costing for a part after optimisation. Shows a breakdown of material and machine costs.

DEMO	USER 1		Modu	lar V8.20		1	Wednesday	25 Novemb	er 2009
Part	costing - full							в	R CD-81
							Pa	rt costing	- full
No	Code /	Mat	erial /	Length	Width	Quant:	ity		
	Description	Des	cription						
						Time	Use	Rate	Cost
9.	BASE-BACK	HAF	DBOARD-4MM	976.0	735.0	1			
	Finished size: : Volume: LOW	976.0 x 735.0	Drawing name:	00001253*	Part graini	ng: Non	Grained		
	BASE-BACK	HAF	RDBOARD-4MM	976.0	735.0	0.7	17	1.221	0.876
	Saw					0:51	0.014	50.000	0.707
						Tota	l cost :	-	1.583
10.	BASE-BACK	HAF	DBOARD-4MM	976.0	735.0	1			
	Finished size: 9 Volume: LOW	976.0 x 735.0	Drawing name:	00001254*	Part graini	ng: Non	Grained		
	BASE-BACK	HAF	DBOARD-4MM	976.0	735.0	0.7	17	1.221	0.876
	Saw					0:51	0.014	50.000	0.707
						Tota	l cost :		1.583
11.	BASE-BOTTOM	MEI	-DEN-FIBRE-18MM	464.0	582.0	1			
	Edge Btm: OAK-TA Part graining: 1	APE-22MM Fini Non Grained V	shed size: 464. Volume: LOW	0 x 582.0	Drawing name	e: 00001	1255*		
	BASE-BOTTOM	MEI	-DEN-FIBRE-18MM	1 464.0	581.0	0.2	70	5.319	1.434
	OAK-TAPE-22MM	Oak	: PVC Tape 22mm				0.484	0.840	0.407
	Saw					0:32	0.009	50.000	0.438
	Machining centre	e				1:13	0.020	50.000	1,014
	Edgebander	-				0:10	0.003	30.000	0.084
						Tota	l cost ·	-	3 376

Part labels - flexible design options include drawings and barcodes.



Fig. 22

Labels can be printed in part list sequence or cutting sequence.

DEMO USER 1		Modular V8.20	Wednesday 25 November 2009			
Part library						
Code	Material	Description	Length	Width	Gr Edge	
Y-ASSEMBLY	-OP	Cabinet Assembly		Cost	6.50	
Y-CLAMP	-OP	Clamping		Cost	8.00	
Y-PACKING	-OP	Packing		Cost	6.00	
Z-DOUBLE	+	Pull handle		Cost	1.21	
Z-DOWEL	+	Dowel		Cost	0.12	
Z-DRAWER-SCREW	+	Acrylic drawer screw		Cost	0.12	
Z-HANGING-RAIL	+	Wardrobe hanging rail		Cost	1.96	
Z-RUNNER	+	Drawer runner		Cost	0.43	
Z-SHELF-SUPPORT	+	Shelf support		Cost	0.19	
Z-SINGLE	+	Single Knob		Cost	0.95	
Z-SINGLE-BEECH	+	Wooden knob - beech		Cost	0.52	
Z-SINGLE-BRASS	+	Brass knob		Cost	1.02	
Z-SINGLE-OAK	+	Wooden knob - oak		Cost	0.52	
ZDD4B-BROWN-HANDLE	+	Handle 4" D Brown		Cost	0.95	
ZDD4W-WHITE-HANDLE	+	Handle 4" D White		Cost	0.78	
ZH120-HINGE	+	Hinge 120 HKK123-321		Cost	0.36	
ZH180-HINGE	+	Hinge 180 HKK123-321		Cost	0.40	
ZS25-6-ROUND-SCREW	+	Round Screw 25mm No6		Cost	0.01	
ZS40-8-CSUNK-SCREW	+	Csunk Screw 40mm No8		Cost	0.01	

Part library - fittings (hardware) - the part library can include fittings (hardware).

Fig. 23

In this case fields such as length and width are not used.

If fittings are included in product definitions a fittings summary for any optimisation (run) is available. This can be used as a picking list.

DE	MO USER 1		Modu	ar V8.20	Wednesday 25 November 2009
F	ittings				Kitchen layout
					BSR CD-81
N	o Fitting	Material	Description	Quantity	
1.	Z-DOWEL	+	Dowel	485	
2.	Z-DRAWER-SCREW	+	Acrylic drawer screw	65	
3.	Z-RUNNER	+	Drawer runner	24	
4.	Z-SHELF-SUPPORT	+	Shelf support	85	
5.	Z-SINGLE	+	Single Knob	47	
6.	ZDD4B-BROWN-HAND	+	Handle 4" D Brown	8	
7.	ZH180-HINGE	+	Hinge 180 HKK123-321	82	
8.	ZS25-6-ROUND-SCREW	+	Round Screw 25mm N	283	
9.	ZS40-8-CSUNK-SCREW	+	Csunk Screw 40mm No8	88	

Part library - operations - the part library can include operations on a part, such as clamping, assembly and packing.

DEMO USER 1		Modular V8.20	Wednesda	y 25 Nov	ember	r 2009
Part library						
Code	Material	Description	Length	Width	Gr	Edge
Y-ASSEMBLY	-OP	Cabinet Assembly		Cost	6.9	50
Y-CLAMP	-OP	Clamping		Cost	8.0	00
Y-PACKING	-OP	Packing		Cost	6.0	00

Fig. 25

In this case fields such as length and width are not used.

If operations are included in product definitions an operations summary for any optimisation (run) is available.

DEMO USER 1	Μ	Jular V8.20 Wednesday 25 November 2009
Operations		Kitchen layout
		BSR CD-81
No Operation Material	Description Duration	
1. Y-ASSEMBLY -OP	Cabinet Assembly 1:21	

Edging and Laminating

This section shows examples of the printed reports for Edging and Laminating.

Edging and laminating material and operations are set up in the Edging Library.

The program uses this information to calculate the cut sizes for a run ready for optimisation. The edging library also includes costing information.

The part list entered (whether created automatically from the product requirements or entered manually) is usually based on the Finished size and if a part has edging or laminate applied the actual cut size for the core material and the laminate will be different from the finished size to allow for the edging and laminating operations.

Colours and combination materials - the program also includes facilities to deal with extensive use of colours and with combination or pre-laminated materials that are produced as required.

Edging - details in Part list	Part list with e	edging details	included.
-------------------------------	------------------	----------------	-----------

DEMO USER 1	Modular V	8.20		Wednes	day 25 November 2009
Part list					BSR PR-31
Ref BSR PR-31				Opt	DEFAULT Saw DEFAULT
No Description	Material	Length	Width	Qty	Over Under Gr Edge 0% 0% N 0000
 BTH-CAB-BACK BTH-CAB-BOTTOM 1.Edge Btm EBONY-TAPE 	MFC18-EBONY MFC18-EBONY	664.0 664.0	$564.0 \\ 144.0$	7 7	
 BTH-CAB-DOOR-LEFT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE, 3.Edge	349.5 Left EBONY	450.0 -TAPE, 4.Edg	7 e Right	EBONY-TAPE
 BTH-CAB-DOOR-RIGHT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE, 3.Edge	349.5 Left EBONY	450.0 -TAPE, 4.Edg	7 e Right	EBONY-TAPE
 BTH-CAB-END-LEFT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE, 3.Edge	162.0 Left EBONY	600.0 -TAPE	7	
 BTH-CAB-END-RIGHT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE, 4.Edge	162.0 Right EBON	600.0 IY-TAPE	7	
 BTH-CAB-SHELF 1.Edge Btm EBONY-TAPE 	MFC18-EBONY	664.0	144.0	14	
 BTH-CAB-SHLF-BASE 1.Edge Btm EBONY-TAPE 	MFC18-EBONY	664.0	162.0	7	
9. BTH-CAB-TOP 1.Edge Btm EBONY-TAPE	MFC18-EBONY	664.0	162.0	7	
10. DDC-BACK 11. DDC-BOTTOM 12. DDC-SIDE-LEFT 13. DDC-SIDE-RIGHT 14. DRESSER-BACK 15. DRESSER-DRAWER	MED-DEN-FIBRE-18MM HARDBOARD-4MM MED-DEN-FIBRE-18MM MED-DEN-FIBRE-18MM MED-DEN-FIBRE-18MM MFC18-OAK	928.0 964.0 564.0 564.0 964.0 964.0	311.0 564.0 311.0 311.0 1082.0 315.0	5 5 5 5 15	
16. DRESSER-END-LEFT	MED-DEN-FIBRE-18MM	600.0	1082.0	5	

Fig. 27

Note that some parts have edging specified. The Edging is specified in the extra fields defined for the part list: Edge Btm, Edge Top etc.

(These extra fields are called 'Information boxes' and are set up via the Information box parameters).

In this case the Edging requirements are Tape.

Edging Summary - shows the edging requirements for an optimised run.

DEMO USER 1			Modular V8	3.20			Wednesday 25 November 2009
Edging sun	nmary						Week 22
MEGIA ONK							
МЕСТ8-ОАК			00103	/BSR P	R-20-03	BSR PR-	·20-03/DEFAULT/DEFAULT/5
MFC18-OAK Code	Description	Material	00103. Thickness	/BSR P	R-20-03, Total	BSR PR-	20-03/DEFAULT/DEFAULT/S
Code	Description	Material	00103. Thickness	/BSR P Cost m	R-20-03 Total m	/BSR PR- Total Cost	20-03/DEFAULT/DEFAULT/S
Code OAK-TAPE-22MM	Description Oak PVC Tape 22mm	Material	00103. Thickness 1.0	/BSR P Cost <u>m</u> 0.840	R-20-03, Total <u>m</u> 68.81	/BSR PR- Total <u>Cost</u> 57.80	20-03/DEFAULT/DEFAULT/S
Code OAK-TAPE-22MM Total	Description Oak PVC Tape 22mm	Material	00103, Thickness 1.0	/BSR P Cost m 0.840	R-20-03, Total m 68.81	/BSR PR- Total <u>Cost</u> 57.80 57.80	20-03/DEFAULT/DEFAULT/S

In this case the length of each type of Edging tape required.

Laminating - details in Part list

A part list can include details of the Front and Back laminate required.

DEMO USER 1	Mo	dular V8.20		Wednes	day 25 No	vember 2	2009
Part list						BSR PI	R-31
Ref BSR PR-31				Opt I	DEFAULT	Saw DEFA	AULT
No Description	Material	Length	Width	Qty (Over Unde D% 0%	r Gr Edg N 000	ge D0
 BTH-CAB-BACK BTH-CAB-BOTTOM 1.Edge Btm EBONY-TAPE 	MFC18-EBONY MFC18-EBONY	664.0 664.0	564.0 144.0	7 7			
 BTH-CAB-DOOR-LEFT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE,	349.5 3.Edge Left EBONY	450.0 -TAPE, 4.Edg	7 e Right	EBONY-TA	PE	
 BTH-CAB-DOOR-RIGHT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE,	349.5 3.Edge Left EBONY	450.0 -TAPE, 4.Edg	7 e Right	EBONY-TA	PE	
 5. BTH-CAB-END-LEFT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE,	162.0 3.Edge Left EBONY	600.0 -TAPE	7			
 BTH-CAB-END-RIGHT 1.Edge Btm EBONY-TAPE, 	MFC18-EBONY 2.Edge Top EBONY-TAPE,	162.0 4.Edge Right EBON	600.0 NY-TAPE	7			
7. BTH-CAB-SHELF 1.Edge Btm EBONY-TAPE	MFC18-EBONY	664.0	144.0	14			
 BTH-CAB-SHLF-BASE 1.Edge Btm EBONY-TAPE 	MFC18-EBONY	664.0	162.0	7			
9. BTH-CAB-TOP 1.Edge Btm EBONY-TAPE	MFC18-EBONY	664.0	162.0	7			

Fig. 29

This enables the program to calculate the sizes of the laminate pieces required. These are added to the part list along with the core sizes and other non-laminated parts.

The Laminate data is specified in the extra fields defined for the part list: Front Laminate, Back Laminate.

(These extra fields are called Information boxes and are set up via the Information box parameters).

Laminating - details in Cutting list

Where laminate information is included the program automatically calculates the laminate sizes required and adds them to the Cutting list.

DEMO USER 1		Modu	lar V8.20		Wednes	day 25 No	ovember 200
Cutting list							BSR PR-3
Ref BSR PR-31					Opt I	DEFAULT	Saw DEFAUL
No Descriptio	n Mate	rial	Length	Width	Qty (Dver Unde	er Gr Edge N 0000
1. BTH-CAB-BA 8.Finished si	CK MFC1 ze 664.0 x 564.0, 15	B-EBONY .Part graining	664.0 Non Grained,	564.0 16.Volume LOW	7		
2. BTH-CAB-BO 1.Edge Btm EB	TTOM MFC1 ONY-TAPE, 8.Finished	8-EBONY size 664.0 x	664.0 144.0, 15.Part	143.0 graining Non	7 Grained,	. 16.Volu	ame LOW
 BTH-CAB-DO 1.Edge Btm EB 8.Finished si 	OR-LEFT MFC1 ONY-TAPE, 2.Edge Top ze 349.5 x 450.0, 15	8-EBONY EBONY-TAPE, 3 .Part graining	347.5 Edge Left EBO Non Grained,	448.0 NY-TAPE, 4.Edg 16.Volume LOW	7 ge Right	EBONY-TA	APE,
 ETH-CAB-DO 1.Edge Btm EB 8.Finished si 	OR-RIGHT MFC1 ONY-TAPE, 2.Edge Top ze 349.5 x 450.0, 15	8-EBONY EBONY-TAPE, 3 .Part graining	347.5 Edge Left EBO Non Grained,	448.0 NY-TAPE, 4.Edg 16.Volume LOW	7 ge Right	EBONY-TA	APE,
5. BTH-CAB-EN l.Edge Btm EB l5.Part grain	D-LEFT MFC1 ONY-TAPE, 2.Edge Top ing Non Grained, 16.	8-EBONY EBONY-TAPE, 3 Volume LOW	161.0 .Edge Left EBO	598.0 NY-TAPE, 8.Fir	7 nished s:	ize 162.0) x 600.0,
6. BTH-CAB-EN l.Edge Btm EB 8.Finished si	D-RIGHT MFC1 ONY-TAPE, 2.Edge Top ze 162.0 x 600.0, 15	B-EBONY EBONY-TAPE, 4 .Part graining	161.0 Edge Right EBG Non Grained,	598.0 ONY-TAPE, 16.Volume LOW	7		
7. BTH-CAB-SH l.Edge Btm EB	ELF MFC1 ONY-TAPE, 8.Finished	B-EBONY size 664.0 x	664.0 144.0, 15.Part	143.0 graining Non	14 Grained,	, 16.Volu	ume MED
8. BTH-CAB-SH 1.Edge Btm EB	LF-BASE MFC1 ONY-TAPE, 8.Finished	8-EBONY size 664.0 x	664.0 162.0, 15.Part	161.0 graining Non	7 Grained,	, 16.Volu	ime LOW
 BTH-CAB-TO 1.Edge Btm EB 	P MFC1 ONY-TAPE, 8.Finished	8-EBONY size 664.0 x	664.0 162.0, 15.Part	161.0 graining Non	7 Grained,	. 16.Volu	ume LOW
Fig. 30	ONY-TAPE, 8.Finished	size 664.0 x	162.0, 15.Part	graining Non	, Grained,	. 16.Volu	ume LOW

Note - the Cutting list includes the laminate sizes as a requirement (Lxxxx).

The core and laminates are then ready for optimising.

Laminate sheets - where the laminate requirement (e.g. for front or back laminate) is shown the laminate sheets are included in the optimisation as separate materials. For example, they are shown on the Board summary.

DEMO	USER 1		Modular V8.20					Wednesday 25 November 2009				
Boa	rd summary								E	xamp	ole 5	
					00004/E	xample	e 5/Exampl	e 5/?DEF	AULT	/?DEFA	ULT/8	
No	Board	Length mm	Width	Information	Qty in Stock	Qty Used	Length m	Area m2	Cost m2	Cost / Board	Tota Cos	
BLUE-	LAM-1MM Blue Laminate 1n	nm Thicknes	s 1.0 Bo	<u>bok 10</u>								
2.	BLUE-LAM-1MM/01	2440.0	1220.0		142	17		50.61	1.787	5.320	90.4(
						17		50.61			90.4:	
EBON'	Y-LAM-1MM Ebony Laminat	e 1mm Thick	ness 1.	0 Book 10								
1.	EBONY-LAM-1MM/01*	3050.0	1525.0	BIN 221	580	23		106.98	5.300	24.652	566.9	
						23		106.98			566.9	
GREE	N-LAM-1MM Green Laminat	e 1mm Thick	ness 1.	<u>0 Book 10</u>								
3.	GREEN-LAM-1MM/01*	3050.0	1525.0		32	13		60.47	1.144	5.321	69.1	
						13		60.47			69.17	
Edging library - stores edging materials and methods, for example, tape, laminate strips, solid edging, postform, bullnose.

DEMO USER 1		Modular V8.20		Wednesd	ay 25 No	ovember 2009
Edging library						
Code	Description	Material	Grain Fn	Thk	Core	Cost First
ASH-TAPE-22MM	Ash PVC Tape 22mm		N 1	1.5	0.0	0.750 N
BEECH-TAPE-22MM	Beech PVC Tape 22mm		N 1	1.0	0.0	0.720 N
BLUE-LAM	Blue Laminate	BLUE-LAM-1MM	Y 3	1.0	0.0	1.420 N
BULLNOSE	Bull nosed edge		N 5	0.0	0.0	0.000 N
CORE-TRIM	Oversize cutting		N O	0.0	20.0	0.000 N
EBONY-LAM	Ebony Laminate	EBONY-LAM-1MM	Y 3	1.0	0.0	1.450 N
EBONY-TAPE	Ebony PVC Tape 22mm		N 1	1.0	0.0	0.840 N
GREEN-LAM	Green Laminate	GREEN-LAM-1MM	Y 3	1.0	0.0	1.420 N
GREEN-TAPE-22MM	Green PVC Tape 22mm		N 1	1.0	12.0	0.550 N
LBROWN-TAPE	Light Brown Tape		N 1	1.0	0.0	0.730 N
MAHOGANY-LIP	Solid Mahogany lip		N 2	25.0	10.0	1.850 N
OAK-LAM	Oak Laminate	OAK-LAM-1MM	Y 3	1.0	0.0	1.360 N
OAK-TAPE-22MM	Oak PVC Tape 22mm		N 1	1.0	0.0	0.840 N
POSTFORM	Postformed edge		N 4	0.0	0.0	0.000 N
RED-LAM	Red Laminate	RED-LAM-1MM	Y 3	1.0	0.0	1.420 N
TEAK-LAM	Teak Laminate	TEAK-LAM-1MM	Y 3	1.0	0.0	1.400 N
TEAK-TAPE	Teak PVC Tape 22mm		N 1	1.0	0.0	0.840 N
WHITE-LAM	White Laminate	WHITE-LAM-1MM	Y 3	1.0	0.0	1.300 N
WHITE-TAPE-22MM	White PVC Tape 22mm		N 1	1.0	0.0	0.550 N

Fig. 32

The function number (Fn) sets the type of edging.

Note - Where the material is a sheet (e.g. for laminates) the material details can be stored in the Board library in the usual way and the Material code links to those details.

Optimising and transfer to saw

Whether working from orders, product requirements or part lists the program always generates a Cutting list (list of sizes for cutting) which is optimised to produce a set of Cutting patterns.

For each job (or run) there is a set of reports describing and analysing the run.

With Form Design it is possible to customise the existing reports and to create new fully customised reports.

DEMO USER 1				Modula	ır V8.20		Thurso	day 26 Novemb	er 2009
Managemen	t summa	ary						BSR PF	R-3 1
MED-DEN-FIBRE-1	8MM			00	109/BSR	PR-31-02	2/BSR PR-31-02/DEF	AULT/DEFA	ULT/5
Description	Quantity	m2	m3	Percent	Rate	Cost	Statistic	Value	
Required parts	94	53.54	0.96	76.74%			Number of patterns	9	
Plus/Over parts	0	0.00	0.00	0.00%			Headcut patterns	4	
Offcuts	20	11.25	0.20	16.12%			Rotated patterns	0	
Scrap		4.98	0.10	7.14%			Recut patterns	2	
Core trim		0.00	0.00	0.00%			Number of cycles	9	
Boards	15	69.77	1.26	100.00%			Cutting length	254.2	
							Throughput (M3/Hr)	1.8	
							Waste (%Parts)	30.31%	
							Waste (%Boards)	23.26%	
Sheets used		69.77	1.26	100.00%	4.500	313.96			
Offcuts used		0.00	0.00	0.00%		0.00			
Offcuts created		-11.25	-0.20	-16.12%	0.000	-0.00			
Net material used		58.52	1.06	83.88%	4.500	313.96			
Cutting time	0:41Hr				50.000	34.28			
Total parts	94	53.54	0.96	76.74%	6.504	348.24			

Pattern Preview - a thumbnail preview of the cutting patterns for a run

DEMO USER I	Modular V8.20	Thursday 26 November 2009
Pattern preview		BSR PR-31
MED-DEN-FIBRE-18MM	00109/BSR PR-31-02/	BSR PR-31-02/DEFAULT/DEFAULT/5
Ptn:1 Board:1.MED-DEN-FIBRE-18MM/01 Qty:3 Material:MED-DEN-FIBRE-18MM	Ptn:2 Board:1.MED-DEN-FIBRE-18MM/01 Qty:3 Material:MED-DEN-FIBRE-18MM	Ptn:3 Board:1.MED-DEN-FIBRE-18MM/01 Qty:2 Material:MED-DEN-FIBRE-18MM
W-ROBE-END-LEFT! 13! 13! 578 x 1782 998 998 W-ROBE-END-LEFT! 599 599 578 x 1782 599 599 3	W-ROBE-END-RIGHT! 4! 578 x 1782 964 x 1082 W-ROBE-END-RIGHT! 964 x 1082 578 x 1782 424 x 4082 2099 x 344 x 4082 424 x 4082	9 W-ROBE-BASE W-ROBE-BASE 964 x 578 964 x 578 9 W-ROBE-BASE W-ROBE-BASE W-ROBE-BASE W-ROBE-BASE 964 x 578 964 x 578 900 -BACK DDC-BACK 2 3 3
Ptn:4 Board:1.MED-DEN-FIBRE-18MM/01 Qty:2 Material:MED-DEN-FIBRE-18MM W-ROBE-END-RIGHT! 5 ! 578 x 1782 600 x 1082 W-ROBE-END-LEFT! W-ROBE-TOP	Ptn:5 Board:1.MED-DEN-FIBRE-18MM/01 Qty:1 Material:MED-DEN-FIBRE-18MM * 9 9 W-ROBE-BASE 964 x 578 9 W-ROBE-BASE 9 W-ROBE-BASE 9 W-ROBE-BASE	Ptn:6 Board:1.MED-DEN-FIBRE-18MM/01 Qty:1 Material:MED-DEN-FIBRE-18MM W-ROBE-END-RIGHT! 5! 578 x W-ROBE-END-LEFT! W-ROBE-TOP

Pattern summary - list of patterns in run

2009	November	day 26	Thurs)	ular V8.20	Mod	MO USER 1							
out	en lay	itche	K							ern summary	Patte					
LT/5	/?DEFAU	AULT	1/?DEF.	R CD-8	D-81/BS	8/BSR C	00003									
	Cycle	No	No	No	Board	Yield	Waste	Width	Length	Board	Ptn					
hh:	mm:ss	Xct	Rip	Cyc	Qty	%	%	mm	mm		No					
C							me	n setup ti	ng and patteri	je book 1.0 (13.9) Bundle loadir	Averag					
							arameters	Book 8 P	hickness 40	BOARD-4MM* Hardboard 4mm T	HARDE					
(1.49	4	2	1	1	72 67	27.33	1220.0	2440.0	HARDBOARD-4MM/01	1					
ċ	1:49	4	2	1	1	72.67	27.33	1220.0	2440.0	HARDBOARD-4MM/01	2					
ć	1:49	4	2	1	1	72.30	27.70	1220.0	2440.0	HARDBOARD-4MM/01	3					
(5:06	10	5	1	1	76.01	23.99	1220.0	2440.0	HARDBOARD-4MM/01	4					
(3:57	9	2	1	1	71.28	28.72	1220.0	2440.0	HARDBOARD-4MM/01	5					
(4:08	12	0	1	1	71.12	28.88	1220.0	2440.0	HARDBOARD-4MM/01	6					
(3:43	8	3	1	1	74.27	25.73	1220.0	2440.0	HARDBOARD-4MM/01	7					
(_			7	7	72.90	27.10	-								
					5	8 0 Book	cknoss 1	18mm Thi	ty Eibroboard	EN EIRRE 18MM Modium Donsi						
(6.58	18	4	1	<u>-</u> 1	92 16	7 84	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	8					
ì	6:09	17	5	1	1	93.26	6 74	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	9 9					
ċ	7.48	20	4	1	1	90.04	9.96	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	10					
ć	6:40	19	4	1	1	93.99	6.01	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	11					
(4:21	12	3	1	1	90.93	9.07	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	12					
(4:21	12	3	1	1	90.93	9.07	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	13					
(8:03	23	5	1	1	88.71	11.29	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	14					
(5:57	20	4	1	1	91.77	8.23	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	15					
(9:06	17	11	1	1	90.40	9.60	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	16					
(9:30	28	6	1	1	90.92	9.08	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	17					
(5:06	12	3	1	1	17.47	82.53	1525.0	3050.0	MED-DEN-FIBRE-18MM/01	18					
1	-			11	11	84.60	15.40									

Fig. 35

Note - list is sorted by material

Pattern summary customised - list of patterns in a run.

In this example a standard report is customised to highlight the waste and board quantity.

DEMO L	JSER 1		Mod	ular V8.2	0	Thursday 26 November 2009
Patte	ern summary					Kitchen layout
				0000	3/BSR Cl	D-81/BSR CD-81/?DEFAULT/?DEFAULT/5
Ptn	Board	Length	Width	Waste	Board	
No	- Is a state of the state of th	mm	mm	%	Qty	
Averag	e book 1.0 (13.9) Bundle loading	g and patter	i setup ti	me		
HARDE	3OARD-4MM* Hardboard 4mm Th	ickness 4.0	Book 8 P	arameters	s HBD04	
1	HARDBOARD-4MM/01	2440.0	1220.0	27.33	1	
2	HARDBOARD-4MM/01	2440.0	1220.0	27.33	1	
3	HARDBOARD-4MM/01	2440.0	1220.0	27.70	1	
4	HARDBOARD-4MM/01	2440.0	1220.0	23.99	1	
5	HARDBOARD-4MM/01	2440.0	1220.0	28.72	1	
6	HARDBOARD-4MM/01	2440.0	1220.0	28.88	1	
7	HARDBOARD-4MM/01	2440.0	1220.0	25.73	1	
			•	27.10	7	
MED-D	EN-FIBRE-18MM Medium Density	/ Fibreboard	18mm Thi	ckness 1	8.0 Bo	
8		3050.0	1525.0	(.84 6.74	1	
10	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	0.74	1	
10	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	9.90 6.01	1	
12	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	9.07	1	
13	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	9.07	1	
14	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	11.29	1	
15	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	8.23	1	
16	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	9.60	1	
17	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	9.08	1	
18	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	82.53	1	
			-	15.40	11	

Fig. 36

Note - Form design can also be used to create a brand new fully customised report.

Board summary - a list of the boards required for a run.

DEMO USER 1			Modular V8	.20			Thur	sday 26 N	ovember 2009
Board summary							K	itche	n layout
			000	03/BSR	CD-8	1/BSR CD	-81/?DEF	AULT/	DEFAULT/5
No Board	Length mm	Width mm	Information	Qty in Stock	Qty Used	Length m	Area m2	Cost / Board	Total ∣ Cost
HARDBOARD-4MM* Hardboard 4mi	m Thicknes	is 4.0 B	ook 8 Paramete	ers HBD0)4				
1. HARDBOARD-4MM/01	2440.0	1220.0	BIN 133	782	7		20.84	2.649	18.55
					7		20.84		18.55
MED-DEN-FIBRE-18MM Medium De	ensity Fibre	board 18	mm Thickness	18.0 Bo	ok 5				
2. MED-DEN-FIBRE-18MM/01	3050.0	1525.0	BIN 127	1072	11		51.16	20.931	230.24
					11		51.16		230.24
MFC18-OAK Prelaminated - Oak 18	mm Thickn	ess 18.0	Book 5						
4. MFC18-OAK/02	2440.0	1220.0		102	6		17.86	8.841	53.05
					6		17.86	-	53.05
WHITE-ACRYLIC-12MM Acrylic - W	hite 12mm	(sundry)	Thickness 12.	D Book 8					
5. WHAC12/01				332	36			0.000	47.52
					36				47.52
Total					60		89.86		349.35

Offcut summary - list of offcuts produced by an optimisation

MO USEF	R 1		Modular V8.2	0		Thu	rsday 26 N	ovember 200
ffcut	summary					K	Citcher	n layou
			0000	3/BSR CD-	-81/BSR CI	D-81/?DE	FAULT/?I	DEFAULT
No	Description	Length mm	Width mm	Total	Area m2	Cost m2	Cost / Offcut	Total Cost
ffcut value	- restocking 11.90 Cost	reduction 0.00						
ARDBOAF	RD-4MM* Hardboard 4mm	n Thickness 4.0 Bo	ok 8 Parameter	s HBD04 Mi	n size 850.0.	X 400.0		
1.	X00003/0001	935.7	488.2	1	0.457	0.445	0.203	0.20
2.	X00003/0002	924.4	464.0	1	0.429	0.445	0.191	0.19
					0.886			0.39
ED-DEN-F	IBRE-18MM Medium De	nsity Fibreboard 18n	nm Thickness	18.0 Book 5	Min size 300	.0 X 200.0		
3	X00003/0003	3050.0	1206.4	1	3 680	2 250	8 279	8 2 8
4.	X00003/0004	533.2	218.2	1	0.116	2.250	0.262	0.26
					3 796			8 54
FC18-OA	K Prelaminated - Oak 18m	nm Thickness 18.0 E	Book 5 Min siz	e 300.0 X 200	0.0			
5.	X00003/0005	1319.0	486.4	1	0.642	1.485	0.953	0.95
6.	X00003/0006	2440.0	206.4	1	0.504	1.485	0.748	0.75
7	X00003/0007	776.4	395.2	1	0.307	1.485	0.456	0.46
1.	X00003/0008	1116.2	205.2	1	0.229	1.485	0.340	0.34
8.	,			4	0 195	1 485	0.290	0.29
7. 8. 9.	X00003/0009	937.8	208.4		0.100	1,400		0.20
7. 8. 9. 10.	X00003/0009 X00003/0010	937.8 563.2	208.4 216.0	1	0.122	1.485	0.181	0.18
8. 9. 10.	X00003/0009 X00003/0010	937.8 563.2	208.4 216.0	1	0.122	1.485	0.181	0.18

Fig. 38

Offcuts can be stored and used later. The minimum sizes for an offcut are set by the optimising parameters.

Pattern - a full page view of each pattern. Below the pattern is a summary of the part sizes on the pattern and the quantities produced.



'Still to cut' assumes patterns are cut in the sequence shown within each material group. The figures at the edge of the pattern indicate the size of the falling piece. The saw kerf and trim settings used are shown beneath the pattern.

Pattern - with head cut

EMO USER 1	I	Modular V8.2	0	Thursday 26 Noven	nber 200
Pattern	16 of 24			Kitchen la	ayou
		0000	3/BSR CD-81/BSR CD-	81/?DEFAULT/?DEF	AULT/
Board: MED-D	EN-FIBRE-18MM/01	W	aste: 9.59%	Size: 3050.0 x 1525	.0 x 18.0
Aaterial: MED	-DEN-FIBRE-18MM Medium	n Density Fibreboard 18mm		l	Boards:
5 2 ->>		2493.4		556.6	•
5.2 "	D-WALL-TOP	WALL-END-LEFT!	WALL-END-RIGHT!		
	964 X 281	281 X 750	281 X 750	WALL-CORNER-TOP	
281.0	D-WALL-TOP	WALL-END-LEFT!	WALL-END-LEFT!	532 X 532	14.8
	964 X 281	281 X 750	281 X 750		
281.0	T D-WALL-TOP	WALL-END-LEFT!	T WALL-END-LEFT!		
	964 X 281	281 X 750	281 X 750	199	36.8
281.0	T D-WALL-TOP	WALL-END-LEFT!	T WALL-END-LEFT!	510 X 510	
	964 X 281	281 X 750	281 X 750	WALL-BASE	
281.0	T D-WALL-TOP	WALL-END-LEFT!	WALL-END-LEFT!	464 X 281	82.8
	964 X 281	281 X 750	281 X 750	BASE-RAIL-BACK	
281.0				464 X 150	82.8
86.0				22.8	

Head cut - divides the pattern into two portions allowing more complex patterns

Patterns - parts produced

DEMO USER 1				Modular V8.20			Thursday 26	Novem	1ber 2009
Pattern 12 of	tern 12 of 24						Kitche	en la	ayout
				00003/	BSR CD-81/I	BSR C	D-81/?DEFAULT/	?DEF	AULT/5
Board: MED-DEN-FIBF	RE-18MM	//01		Was	te: 9.07%		Size: 3050.0 x	(1525)	0 x 18.0
laterial: MED-DEN-FI	BRE-18	MM Medium Density F	ibre	board 18mm				E	Boards: 1
га ж				3050.0					
BASE-END-F 581 X 8 870.0	NIGHT	CORNER-END-RIGHT 581 X 870	cc	DRNER-END-RIGHT 581 X 870	D-BASE-END- 581 X 87	LEFT O	D-BASE-END-LEFT 581 X 870		111.0
BASE-SHELF! 464 X 400		BASE-END-RIGHT! 581 X 870		CORNER-EN 501 X	D-LEFT! 870		CORNER-END-LEFT! 581 X 870		10.8
54.4 iaw kerf: 4.8 Book hei lear rip trim with kerf - No Part Description	ight 1 C Rip: 10. L	ycles 1 0 Cross: 10.0 Retrim v ength Width Total mm mm Prod	vith I Cu	kerf: 5.0 It Perbrd Perp	otn Tocut E	dge Bt	m Edge 1	Гор	
 BASE-END-RIG 4.Edge Right O/ BASE-END-RIG 4.Edge Right O/ BASE-SHELF 8.Finished size 	6HT AK-TAPI 6HT AK-TAPI 464.0 x 4	581.0 870.0 1 E-22MM, 8.Finished si 581.0 870.0 1 E-22MM, 8.Finished si 464.0 400.0 3 400.0, 9.Drawing name	NI ze 5 NI ze 5 e 00	L 1 82.0 x 870.0, 9.Dr. L 1 82.0 x 870.0, 9.Dr. 1 1 001309*, 15.Part g	1 NIL awing name 00 1 NIL awing name 00 1 1 uraining Non Gr	001282 001283 rained,	2*, 15.Part graining No 3*, 15.Part graining No 16.Volume LOW	on Gra on Gra	ined, 16. ined, 16.

The parts produced are shown beneath the pattern. The 'To cut' calculation assumes the boards are cut in pattern order.

Patterns - cutting instructions

Board: MED-DEN-FIBRE-18M	M/01	Was	te: 9.07%	Size: 3050.0 x 7	1525.0 x 18.0
Material: MED-DEN-FIBRE-18	MM Medium Density F	ibreboard 18mm			Boards: 1
		3050.0			
5.2 BASE-END-RIGHT 581 X 870	CORNER-END-RIGHT 581 X 870	CORNER-END-RIGHT 581 X 870	D-BASE-END- 581 X 87	LEFT D-BASE-END-LEFT 0 581 X 870	111.0
BASE-SHELF! 464 x 400	BASE-END-RIGHT! 581 X 870	CORNER-EN 581 X	D-LEFT! 870	CORNER-END-LEFT! 581 X 870	10.8
581.0 54.4 Saw kerf: 4.8 Book height 1 C Baar rin trim with karf - Pin 10	Cycles 1	uith karf: 5.0			222

Fig. 42

AD/PRG:[9]	21			22											
	Size	Qty	Fn	Size	Qty	Fn	Size	Qty	Fn	Size	Qty	Fn	Size	Qty	Fn
1	581.0	1	3	464.0	1	6									
2	870.0	1	0	0.0	0	1									
3	870.0	3	6	0.0	0	0									
4	400.0	1	0	0.0	0	0									
5	581.0	5	6	0.0	0	0									
6	0.0	0	1	0.0	0	0									
7	0.0	0	0	0.0	0	0									
8	0.0	0	0	0.0	0	0									
9	0.0	0	0	0.0	0	0									
10	0.0	0	0	0.0	0	0									

Fig. 43

Where necessary (e.g. Sliding table saw) the pattern includes cutting instructions.

Distribution Summary - shows the sequence in which parts are produced and which parts are produced on which pattern.

DEMO	USER 1		Мос	lular V8	3.20		Thursday 26	November 2009
Dist	tribution summary						Kitche	en layout
				00	003/BS	R CD-81/BSR C	D-81/?DEFAULT/	?DEFAULT/5
No	Part /	Length	Width	Total	Edge	Parts per patter	n Finished size	Part graining
	Description	mm	mm					
HARD	BOARD-4MM* Hardboard 4mm Thick	kness 4.0	Book 8 P	aramet	ters HB	204		
1.	BASE-BACK	476.0	735.0	1	0000	1/6	476.0 x 735.0	Non Grained
	8.Finished size 476.0 x 735.0, 9.Dra	wing name	0000124	15*, 15.	Part gra	ining Non Grained,	16. Volume LOW	
2.	BASE-BACK	476.0	735.0	1	0000	1/6	476.0 x 735.0	Non Grained
	8.Finished size 476.0 x 735.0, 9.Dra	wing name	0000124	6*, 15.	Part gra	ining Non Grained,	16. Volume LOW	
3.	BASE-BACK	876.0	735.0	1	0000	1/5	876.0 x 735.0	Non Grained
	8.Finished size 876.0 x 735.0, 9.Dra	wing name	0000124	7*, 15.	Part gra	ining Non Grained,	16. Volume LOW	
4	BASE-BACK	976.0	735.0	1	0000	1/3	976 0 x 735 0	Non Grained
ч.	8.Finished size 976.0 x 735.0, 9.Dra	wing name	0000124	18*, 15.	Part gra	ining Non Grained,	16.Volume LOW	Non Grained
r		470.0	705.0		0000	4/0	170.0 705.0	New Oreland
5.	BASE-BACK 8.Finished size 476.0 x 735.0. 9.Dra	476.0 wina name	735.0 0000124	1 19*. 15.	0000 Part ara	1/6 hining Non Grained.	476.0 x 735.0 16.Volume LOW	Non Grained
	,			- ,	j	g ,		
6.	BASE-BACK	476.0	735.0	1	0000	1/6	476.0 x 735.0	Non Grained
	8.⊢inished size 476.0 x 735.0, 9.Dra	wing name	0000125	50*, 15.	Part gra	uning Non Grained,	16. Volume LOW	
7.	BASE-BACK	976.0	735.0	1	0000	1/3	976.0 x 735.0	Non Grained
	8.Finished size 976.0 x 735.0, 9.Dra	wing name	0000125	51*, 15.	Part gra	ining Non Grained,	16.Volume LOW	

Fig. 44

For each Part the text e.g. 28/4 7/5 etc shows the quantity of a part produced on a pattern. In this case 28 of the part are produced on pattern 4 and a quantity of 7 are produced on pattern 5.

DEMO (JSER 1	Modu	ılar V8.20	i i				Thursda	ay 26 N	ovember 2009
[npu	it summary							Kit	che	n layout
			00003	BSR C	D-81	/BSR C	CD-81/?	DEFA	ULT/?	DEFAULT/S
Туре	File	Title	Dat	te Time	Mo	de				
Parts	BSR CD-81	Kitchen layout	26/11/	· 11:51						
Boards	BSR CD-81	Kitchen layout	19/11/	15:31						
Optimis	sing DEFAULT	Standard Optimiser	21/04/	07:51						
Saw	DEFAULT	Single Saw	26/11/	' 11:51						
Run	00003	Kitchen layout	26/11/	11:51	Mod	1				
Materia	al HBD04	Hardboard 4mm	25/08/	′ 08 :11						
		HARDBOARD-4MM Hardboard 4.								
No	Description	Material	Length	Width	Qty	Over	Under	Grain	Edge	Edge Btm
						0%	0%		0000	
1.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1			N		
	8.Finished size 476.0 x	735.0, 9.Drawing name 00001245	*, 15.Part	graining	Non	Grained,	16.Volu	ime LOV	N	
2.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1			N		
	8.Finished size 476.0 x	735.0, 9.Drawing name 00001246	*, 15.Parl	graining	Non	Grained,	16.Volu	ime LOV	N	
3.	BASE-BACK	HARDBOARD-4MM	876.0	735.0	1			N		
	8.Finished size 876.0 x	735.0, 9.Drawing name 00001247	*, 15.Parl	graining	Non	Grained,	16.Volu	ime LOV	V	
4.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1			N		
	8.Finished size 976.0 x	735.0, 9.Drawing name 00001248	*, 15.Parl	graining	Non	Grained,	16.Volu	ime LOV	V	
5.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1			N		
	8.Finished size 476.0 x	735.0, 9.Drawing name 00001249	*, 15.Parl	graining	Non	Grained,	16.Volu	ime LOV	V	
6.	BAŜE-BAĈK	HARDBOARD-4MM	476.0	735.0	1			N		
	8.Finished size 476.0 x	735.0, 9.Drawing name 00001250	*, 15.Parl	graining	Non	Grained,	16.Volu	ime LOV	V	
7.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1			N		
	8.Finished size 976.0 x	735.0, 9.Drawing name 00001251	*, 15.Parl	graining	Non	Grained,	16.Volu	ime LOV	N	
8.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1			N		

Input summary - full summary of data entered including the parameter settings

Fig. 45

The lower portion of the input summary (not shown) lists boards used for optimising and the optimising and saw parameter values - these values are important for being able to reproduce the run accurately.

Material summary - list of the materials for a run including costs.

er 2009	26 Novembe	hursday 2	Т		Modular V8.20					DEMO USER 1						
vou	nen lay	Kitcl								ıry	ımma	ial su	Mater			
JLT/:	.T/?DEFAU	DEFAUL	D-81/?E	I/BSR C	R CD-81	0003/BS	0									
Cyc	Offcuts	Offcuts	Offcuts	Sheets	Sheets	Sheets	Board	Board	Board	Part	Part	Part	Part			
	m3	m2	No	m3	m2	No	m3	m2	No	m3	m2	m	No			
					004	eters HBD	8 Param	4.0 Book	Thickness	ard 4mm	//* Hardbo	ARD-4MN	HARDBO/			
7	0.00	0.00	0	0.08	20.84	7	0.08	20.84	7	0.06	15.19		28			
11	0.00	0.00	0	0.92	<u>ook 5</u> 51.16	<u>ss 18.0 B</u> 11	<u>n Thickne</u> 0.92	<u>bard 18mn</u> 51.16	sity Fibrebo 11	<u>dium Den</u> 0.78	<u>18MM Me</u> 43.28	I-FIBRE-1	<u>MED-DEN</u> 156			
							ok 5	s 18.0 Bo	n Thicknes	Oak 18mr	minated -	AK Prelar	MFC18-0/			
e	0.00	0.00	0	0.32	17.86	6	0.32	17.86	6	0.24	13.38		49			
					<u>8</u>	2.0 Book	ckness 1	undry) Thi	<u>e 12mm (s</u> 36	ylic - Whit	12MM Acr	CRYLIC-1	WHITE-AC			
					00.00	- 24	4 22	00.06	24	4.00	74.05					

Machine times - summary of the machine times for each part in a run. The Saw, Edging and Machining centre times are calculated from the times set for each operation.

DEMO USE	R 1		I	Modula	ar V8.20	Thursday 26 November 2009
Machi	ne times					Kitchen layout
					00003	/BSR CD-81/BSR CD-81/?DEFAULT/?DEFAULT/5
No	Description	Qty	Saw	Mch	Edge	
Setup time			0:23		0:05	
1.	BASE-BACK	1	0:01	0:00	0:00	
2.	BASE-BACK	1	0:01	0:00	0:00	
3.	BASE-BACK	1	0:01	0:00	0:00	
4.	BASE-BACK	1	0:01	0:00	0:00	
5.	BASE-BACK	1	0:01	0:00	0:00	
6.	BASE-BACK	1	0:01	0:00	0:00	
7.	BASE-BACK	1	0:01	0:00	0:00	
8.	BASE-BACK	1	0:01	0:00	0:00	
9.	BASE-BACK	1	0:01	0:00	0:00	
10.	BASE-BACK	1	0:01	0:00	0:00	
11.	BASE-BOTTOM	1	0:00	0:01	0:00	
12.	BASE-BOTTOM	1	0:00	0:01	0:00	
13.	BASE-BOTTOM	3	0:01	0:03	0:00	
14.	BASE-BOTTOM	1	0:00	0:01	0:00	
15.	BASE-BOTTOM	1	0:00	0:01	0:00	
16.	BASE-CABINET-BOTTOM	1	0:01	0:02	0:00	
17.	BASE-CABINET-DIVIDER	1	0:00	0:02	0:00	
18.	BASE-CABINET-DOOR	1	0:00	0:01	0:01	
19.	BASE-CABINET-DRAWER	3	0:01	0:01	0:02	
20.	BASE-CABINET-DRAWER-LO	1	0:00	0:01	0:01	

Fig. 47

Other machine groups can be added to the analysis using the Machine Rate parameters.

DEMO US	ER 1	Mod	ular V8.20		г	hursday	26 Novem	ber 2009
Saw l	oading summary					Kitc	hen la	ayout
			00003	/BSR CD-81/BS	R CD-81/?I	DEFAUI	LT/?DEF	AULT/5
Ptn No	Board	Length mm	Width mm	Information	Qty in Stock	Qty Used	Area m2	
HARDBC	ARD-4MM* Hardboard 4mm Thickne	ss 4.0 Book 8 Pa	arameters	HBD04				
1-7	HARDBOARD-4MM/01	2440.0	1220.0	BIN 133	782 _	7	20.84	
	N EIRRE 18MM Modium Donsity Eibra	board 18mm Thi	sknoss 1	R D Rook 5		'	20.84	
			SKIICSS IC	<u>5.0 BOOK 5</u>				
8-18	MED-DEN-FIBRE-18MM/01	3050.0	1525.0	BIN 127	1072	11	51.16	
						11	51.16	
<u>MFC18-C</u>	OAK Prelaminated - Oak 18mm Thickr	ess 18.0 Book 5						
19-24	MFC18-OAK/02	2440.0	1220.0		102	6	17.86	
					-	6	17.86	
Total						24	80.86	

Saw loading summary - shows a list of the materials for loading at the saw

Fig. 48

Costs are not included.

DEMO	USER 1	Modular	V8.20		Thurs	sday 26 November 2009
Part	list					Kitchen layout
Ref	BSR CD-81				Opt	DEFAULT Saw DEFAULT
No	Description	Material	Length	Width	Qty	Over Under Gr Edge 0% 0% 0000
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK BASE-BACK	HARDBOARD-4MM HARDBOARD-4MM HARDBOARD-4MM HARDBOARD-4MM HARDBOARD-4MM HARDBOARD-4MM HARDBOARD-4MM HARDBOARD-4MM HARDBOARD-4MM MADBOARD-4MM MED-DEN-FIBRE-18MM	476.0 476.0 976.0 476.0 976.0 976.0 976.0 976.0 976.0 464.0	735.0 735.0 735.0 735.0 735.0 735.0 735.0 735.0 735.0 735.0 735.0 582.0	1 1 1 1 1 1 1 1 1 1 1	N N N N N N N N
12.	BASE-BOTTOM .Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	464.0	582.0	1	Ν
13.	BASE-BOTTOM .Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	564.0	582.0	3	Ν
14. 1	BASE-BOTTOM .Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	464.0	582.0	1	Ν
15. 1	BASE-BOTTOM .Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	464.0	582.0	1	Ν
16. 1	BASE-CABINET-BOTTOM .Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	864.0	582.0	1	Ν

Part list - list of parts to be optimised. Either created automatically when working with Orders or Product requirements or can be imported or entered manually. Typically shows Finished sizes.

Fig. 49

Information boxes (custom data for each part) are listed in sequence after the basic part data.

DEM	O USER 1	Modular	V8.20		Thurs	day 26 N	ovember 2009
Воа	rd list					Ki	tchen layout
Ref	BSR CD-81						
No	Board	Material	Length	Width	Thk	Qty	Cost Limit
ι.	HARDBOARD-4MM/01 Information: BIN 133, Grair	HARDBOARD-4MM 1: N	2440.0	1220.0	4.0	782	0.890 0
:.	MED-DEN-FIBRE-18MM/01 Information: BIN 127, Grair	MED-DEN-FIBRE-18MM : N	3050.0	1525.0	18.0	1072	4.500 0
8.	MFC18-OAK/01 Grain: N	MFC18-OAK	3050.0	1220.0	18.0	430	3.300 0
4.	MFC18-OAK/02 Grain: N	MFC18-OAK	2440.0	1220.0	18.0	102	2.970 0
5.	WHAC12/01 Grain: N	WHITE-ACRYLIC-12MM	2440.0	1220.0	12.0	332	1.320 4

Board list - the program checks the board library and extracts a list of materials and board sizes to use for the optimisation. The material code for each part determines the materials extracted.

Optimising parameters - list of parameter settings for optimising. There may be several different lists to deal with specific types of job. The parameters deal with common features such as, saw kerf, trims, minimum offcut size, level of recuts etc.

DEMO USER 1	Modular V8	3.20	Thursday 26	November	200
Optimising parameters - DEFAULT	Standard Optimiser				
Trims					
Optimiser type		Automatic selection			
Cutting					
Saw kerf		4.8			
Minimum rip trim with kerf					
Front		10.0			
Rear		10.0			
Minimum crosscut trim with kerf					
Front		10.0			
Rear		10.0			
Override rip and crosscut trims					
Override rip trim		No			
Override crosscut trim		No			
Retrim after head cut with kerf		5.0			
Limits					
Max unique parts per strip					
Quantity in main		20			
Quantity in head		5			
Max unique strips per pattern		-			
Quantity in main		20			
Quantity in head		5			
Max unique parts per pattern		50			
Open parts		50			
Max open parts		Unlimited			
Extra open parts for single (wele natterns	0			
Override board loading seque		No			
Max different boards		0			
Pulas					
Radut		Single			
Head cuts		orngre			
Quantity		1			
Allow in rotated patterns		- Vec			
Allow rotated parts		Vec			
Duplicate parts		100			
Show in single pattorn		No			
Board orientation		Longthuaug			
Box for priority		None			
Recuts		6au			
Recur processing		NAW			

The layout is grouped by the same sections as shown by tabs on-screen.

Saw parameters - list of saw parameter settings for optimising. These determine basic features of the saw, such as, cutting height, clamp sizes and positions, size of waste flap etc.

DEMO USER 1 Modu	lar V8.20	Thursday 26 November 2009
Saw parameters - DEFAULT Single Saw		
Cutting 1		
Saw model	21 Single saw - Optilink /	Holzma Cadmatic I/II/III/IV / Giben Selco - CRLINK
Min trim dimension for recut with kerf (mm)		
Front	0.0	
Rear	0.0	
Min block length after head cut (mm)		
Main	0	
Head	U	
cutting neight (mm)	0.0	
Mill	105 0	
Board dimensions for head cut/rotated natterns	103.0	
Min length	0 0	
Max length	9999.9	
Min width	0.0	
Max width	9999.9	
Max total trim for single recut	9999.0	
Overall cutting length	5600	
Min length of part in a strip	0.0	
Largest cuts first	No	
Spare		
Strip optimiser settings	Rip all books	first
Split waste		
Split waste	None	
Cutting 2		
Label data for saw	Per piece	
Max width for crosscutting multiple strips	1200	
Max number of strips for multiple crosscutting	100	
Depth of bed for drawback	5600.0	
Min size of first cut	0.0	
Min size of fast cut (mm)	100.0	
Rip	100.0	
Width of string (mm)	IOO.0	
Min	0 0	
Max	0.0	
nax		

Fig. 52

The layout is grouped by the same sections as shown by tabs on-screen.

Material parameters - list of optimising and saw parameters that can be overridden for a material. For example, some materials require a slower cutting speed.

DEMO USER 1 Modular	V8.20	Thursday 26	November	2009
Material parameters - Lam 3050x1525 Laminates 3050x152	5			
Trims				
Optimiser type	- (Automatic selection)			
Minimum rip trim with kerf	12.0			
Profit	- 13.0			
Minimum crosscut trim with kerf	- 13.0			
Front	- 13.0			
Rear	- 13.0			
Override rip and crosscut trims				
Override rip trim	- NO			
Override crosscut trim	- NO			
Retrim after head cut with kerf	- 10.0			
Limits and speeds				
Max different boards	- 0			
Max boards per bundle	- 100			
Largest cuts first	- (No)			
Min block length after head cut				
Main	- 0			
Head	- 0			
Cutting height				
Min	- 0.0			
Max	- 20.0			
Board dimensions for head cut/rotated patterns	(0.0)			
Min length	- (0.0)			
Max length	- (9999.9)			
Min width	- (0.0)			
Max with	- (5555.5)			
Measurement	- (0,0)			
Number of sheets	- (0)			
Spare	-			
Forward speed (M/Min)				
Head	- 25			
Rip	- 25			
Crosscut	- 25			
Head (Small books)	- (0.0)			
Rip (Small books)	- (0.0)			
Crosscut (Small books)	- (0.0)			

Fig. 53

The material parameters used depend on the material code.

The layout is grouped by the same sections as shown by tabs on-screen.

Custom Reports

With the Form design option it is possible to create new fully customised reports for use with Review runs.

Item	Board code	Length	Width	Thicknes	s Quantity	Area	Cost / Area	Volume	Cost / Volume	Total Cos
Materi	al: HARDBOARD-4MM*									
1	HARDBOARD-4MM/01	2000.0	1000.0	4.0	1	2.00	0.890	0.01	222.500	1.7
2	HARDBOARD-4MM/02	2440.0	1220.0	4.0	3	8.93	0.750	0.04	187.500	6.7
					4	10.93		0.05		8.4
Materi	al: MED-DEN-FIBRE-18MM									
3	MED-DEN-FIBRE-18MM/01	3660.0	1550.0	18.0	2	11.35	4.500	0.20	250.000	51.0
4	MED-DEN-FIBRE-18MM/02	2440.0	1220.0	18.0	7	20.84	4.350	0.38	241.667	90.6
					9	32.19		0.58		141.7
Materi	al: MFC18-OAK									
6	MFC18-OAK/02	2440.0	1220.0	18.0	3	8.93	2.970	0.16	165.000	26.5
					3	8.93		0.16		26.5
Materi	al: WHITE-ACRYLIC-12MM									
7	WHAC12/01			12.0	68	0.00		0.00		0.0
					68	0.00		0.00		0.0

Fig. 54

A custom report showing board details.

Custom Reports - multi-line items

'Per item' data can spread over several lines if necessary.

Pattern Information Run no: 00009		Descri	ption	Kitcher	ı layout	
Reference: BSR CD-81/BSR CD-8	1/?DEFAULT/?DEFAULT/5	Thk	Qty	Area m 2	Vol m3	Time
Material description: Hardboard 4mm Board code: HARDBOARD-4MM/01 Length: 2000.0 Width: 1000.0	BASE-BACK BASE-BACK 976 X 735 876 X 735	4.0	1	2.00	0.01	0:02
Material description: Hardboard 4mm Board code: HARDBOARD-4MM/01 Length: 2000.0 Width: 1000.0	IO 9 BASE-BACK 476 476 976 X 735 735 735 735 735 735	4.0	1	2.00	0.01	0:02
Material description: Hardboard 4mm Board code: HARDBOARD-4MM/02 Length: 2440.0 Width: 1220.0	» Mall-Back Mall-Back Mall-Back 964 X 748 964 X 748	4.0	1	2.98	0.01	0:02

Optimising - divided part lists

DEMO	USER 1	Modular	V8.20		Thur	sday 26 November 200
Part	list					Kitchen layou
Ref E	xample7				Opt	DEFAULT Saw DEFAUL
No	Description	Material	Length	Width	Qty	Over Under Gr Edge 0% 0% 0000
1.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	Ν
2.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	Ν
3.	BASE-BACK	HARDBOARD-4MM	876.0	735.0	1	N
1.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	Ν
5.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	Ν
5.	BASE-BACK	HARDBOARD-4MM	476.0	735.0	1	Ν
1.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	N
3.	BASE-BACK	HARDBÓARD-4MM	976.0	735.0	1	Ν
э.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	Ν
LO.	BASE-BACK	HARDBOARD-4MM	976.0	735.0	1	N
li.	BASE-BOTTOM	MED-DEN-FIBRE-18MM	464.0	582.0	1	N
1.	Edge Btm OAK-TAPE-22MM					
12. 1.	BASE-BOTTOM Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	464.0	582.0	1	Ν
13. 1.	BASE-BOTTOM Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	564.0	582.0	3	Ν
14. 1.	BASE-BOTTOM Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	464.0	582.0	1	Ν
15. 1.	BASE-BOTTOM Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	464.0	582.0	1	Ν
16. 1.	BASE-CABINET-BOTTOM Edge Btm OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	864.0	582.0	1	Ν
.7. 3.	BASE-CABINET-DIVIDER Edge Left OAK-TAPE-22MM	MED-DEN-FIBRE-18MM	560.0	533.3	1	Ν
1.	BASE-CABINET-DOOR Edge Btm OAK-TAPE-22MM, 2	MFC18-OAK .Edge Top OAK-TAPE-22MM,	400.0 3.Edge Left	556.8 OAK-TAPE-22MM	1	Х

For some situations it is useful to divide a part list into several different lists. For example, one list for each material.

Optimising - divide by material

Original list is split into several separate lists.

DEMO USER 1		Modular V8.20			Thursday	26	November	2009
Divide								
Original Example7 Batch Example7		Description	Kitchen	layout				
Filename	Sort value			Part	quantity			
Example7-01	HARDBOARD-4MM			28				
	MED-DEN-FIBRE-18MM			149				
	MFC18-OAK			42				
	WHITE-ACRYLIC-12MM			16				

Fig. 57

Separate lists are optimised as a batch - use Optimise Batch

DEMO	USER 1		1	Modular V8.20	Thursda	y 26 November 2009
Batch	optimisation					
Batch	name: Example6				Description: Kitch	en layout-Material
No	Cutting list	Title	Run	Optimising parameters	3 Saw parameters	Board list
1. 2. 3. 4. 5.	Example6 Example6-01 Example6-02 Example6-03 Example6-04	Kitchen layout Kitchen layout Kitchen layout Kitchen layout Kitchen layout	00005 00006 00007 00008 00009	DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT	DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT	Example6 Example6-01 Example6-02 Example6-03 Example6-04

Optimising - Batch summary

Where there is more than one part list / cutting list in a batch the first summary shown is usually the Batch summary. The other summaries then follow for each run.

2009	ovember	ay 26 No	Thursda		Modular V8.20						JSER 1	DEMO L	
ial	/later	ut-N	layo	itchen	Ki						У	h summar	Batc
ple6	Exam												
	Av	No	No	Offcuts	Sheets	No	No	Pattern	Total	Boards	Parts	Part	Run
Scr	Waste	Cyc	Ptn	Used	Used	Boards	Parts	Cost	Time	m2	m2	File	
12.	20.04	24	24	0	24	24	233	412.95	2:13	89.86	71.85	Example6	00005
22.	27.11	7	7	0	7	7	28	39.81	0:26	20.84	15.19	Example6-01	00006
7.	15.40	11	11	0	11	11	156	295.08	1:18	51.16	43.28	Example6-02	00007
13.	25.08	6	6	0	6	6	49	78.06	0:30	17.86	13.38	Example6-03	80000
0.	0.00	0	0	0	0	0	0	0.00	0:00	0.00	0.00	Example6-04	00009
12	20.04	48	48	0	48	48	466	825.90	4:27	179.72	143.70		

DEMO USER 1				Modula	r V8.20		Thurso	lay 26 Nove	mber 2009
Management					Ki	tchen l	ayout		
					0000)5/Examp	le6/Example6/?DEFA	ULT/?DE	FAULT/5
Description	Quantity	m2	m3	Percent	Rate	Cost	Statistic	Value	
Required parts	233	71.85	1.08	79.96%			Number of patterns	24	
Plus/Over parts	0	0.00	0.00	0.00%			Headcut patterns	6	
Offcuts	10	6.68	0.11	7.43%			Rotated patterns	0	
Scrap		11.33	0.14	12.61%			Recut patterns	14	
Core trim		0.00	0.00	0.00%			Number of cycles	24	
Boards	24	89.86	1.33	100.00%			Cutting length	399.2	
							Throughput (M3/Hr)	0.6	
							Waste (%Parts)	25.07%	
							Waste (%Boards)	20.04%	
Sheets used		89.86	1.33	100.00%		301.83			
Offcuts used		0.00	0.00	0.00%		0.00			
Offcuts created		-6.68	-0.11	-7.43%	0.000	-0.00			
Net material used		83.18	1.22	92.57%		301.83			
Cutting time	2:13Hr				50.000	111.13			
Total parts	233	71.85	1.08	79.96%	5.747	412.95			
Sundry - unit usage	36				1.320	47.52			
Total sundry						47.52			

Optimising - Saw simulation. For each pattern a simulation report for an average saw cycle is available. The timeline shows each activity (drawback, crosscut etc).

DEMO USER 1	Modular V8.20	Thursday 26 November 2009
Pattern 11 of 24		Kitchen layout
	00005/Example6/	Example6/?DEFAULT/?DEFAULT/5
Board: MED-DEN-FIBRE-18MM/01	Waste: 6.02%	Size: 3050.0 x 1525.0 x 18.0
Material: MED-DEN-FIBRE-18MM Medium Der	sity Fibreboard 18mm	Boards: 1
5 2 3050.0		
22 34 35 581 x 870 581 x 870 581 x 870	36 37 581 X 870 581 X 870	
51010 65! 464 21! BASE-E 400 581 x 870 581 581.0 9.6	ND-LEFT! BASE-END-LEFT! 10.8	
	6:40	
8 31 15 15 7 45	15 10 7 51	15 10 7 1:15
FD Rip Set 1 RM2 RM3 DB Crosscut S 0:00 1:00	et 1 DS1 TS2DB Crosscut Set 2 2:00 3:00	DS2 TS3DB Crosscut Set 3 4:00
6:40		
1:15 15 1:14		
XM3 DS3 Recut 6:40		
FD - Load - feed RM - Rip DB - Dra	wback DS - Destacking TS - Turn stri	p XM - Crosscut
Saw model: Single saw :21 Boards Cycles Book Rips Crosscuts Cycle 1 1 1 4 19 6:40	(mm:ss) Total (hh:mm:ss) 0:06:40	

Fig. 61 & 62

Optimising - alternative materials

In some situations internal and hidden parts can be made from alternative materials.

Part list - alternative materials

DE	MO USER 1	Modula:	r V8.20		Thur	sday 2	6 Nove	emb	er 2009
Pa	rt list							Ex	ample 1
Re	f example1				Opt	DEFAU	LT Sa	aw	DEFAULT
No	Description	Material	Length	Width	Qty	Over	Under	Gr	Edge
1. 2.	PTX/01 PTX/02 14.Alternative material(s)	CHIPBOARD-18MM CHIPBOARD-18MM MED-DEN-FIBRE-18MM	750.0 1020.0	420.0 150.0	40 70	0 0	0 0	Y Y	0000 0000
з.	+PTX/03 14.Alternative material(s)	CHIPBOARD-18MM MED-DEN-FIBRE-18MM	1130.0	250.0	60	0	0	Y	0000
4.	PTX/04	MED-DEN-FIBRE-18MM	1034.0	782.0	60	0	0	Y	0000

Fig. 63

Board list - alternative materials

DEMO USER 1	Modular	V8.20		Thur	sday 26 N	ovember 2009
Board list						Example 1
Ref example1						
No Board	Material	Length	Width	Thk	Qty	Cost Limit
 CHIPBOARD-18MM/01 Information: BIN 180, Grain: 	CHIPBOARD-18MM N	2440.0	1220.0	18.0	380	2.950 0
 MED-DEN-FIBRE-18MM/01 Information: BIN 127, Grain: 	MED-DEN-FIBRE-18MM N	3050.0	1525.0	18.0	22030	4.500 0

Fig. 64

The patterns following show the same parts cut from sheets of two different materials in the same run.

Same parts cut from sheets of two different materials in the same run.



Fig. 65 & 66



Pattern amendment - pattern from a run before/after pattern amendment



Fig. 67 & 68

In this example parts are deleted and replaced by another part.

Pattern library - grain matching

This is the process of ensuring that certain parts are produced from the same area of material so that the grain matches (for example, when producing cabinet doors).

To do this a template is defined for these parts in the Pattern library.

DEMO USER 1		Modula	r V8.20				Thur	rsday	26	Nov	vember	2009
Pattern library											DC	ORS/3
Board: 1	Waste	e: 0.32%					Size:	: 1504	1.8	x	150 x	0.0
Material:		15	04.8									
->>												
1						2						
750 X	450				75	0 X 4!	50					
450.0												
430.0												
Saw kerf: 4.8 Rear rip trim with kerf - Rip:	0.0 Cross:	0.0 Retrim	ı with ke	rf: 0.0								
No Part	Length	Width	Total Cu	t Per	brd F	er pt	n To	cut				
	750.0 750.0	450.0 450.0				1 1						

Fig. 69

This shows the required layout of the parts.

Patterns - grain matching - optimisation produces the template parts in a fixed a layout (see starred examples)

Example 00001/Example4/Example4/DEFAULT/DEFAULT 00001/Example4/Example4/DEFAULT/DEFAULT W1:3 Board:2.MFC18-BEECH/02 Cty:5 Material:MFC18-BEECH Cycles:1 PTX/01 PTX/01 765 x 601 PTX/01 480 480 480 480 480 480 480 x x x x x x x x x x x x x x x x x x x
00001/Example4/Example4/DEFAULT/DEFAUL //02 H Cycles:2 Ptn:3 Board:2.MFC18-BEECH/02 Cycle5 Material:MFC18-BEECH Cycles:1 PTX/01 PTX/21 PTX/2 480 480 480 480 480 480 x x x x x 002 902 902 902 902 902
Ptn:3 Board:2.MFC18-BEECH/02 Cycles:2 Ptn:3 Board:2.MFC18-BEECH/02 PTX/01 PTX/21 PTX/21 PTX/21 765 x 601 480 480 480 480 (02 902 902 902 902 902 902
PTX/01 765 X 601 (02 PTX/21 PTX/21 PTX/21 PTX/21 PTX/21 PTX/21 480 480 480 480 480 480 X X X X X 902 902 902 902 902
x 520 PLINTH/04
₩02 Ptn:6 Board:2.MFC18-BEECH/02 H Cycles:1 Qty:1 Material:MFC18-BEECH Cycles:1
1/0

In this example the parts are produced as master parts to be divided later.

Part template for grain matching - full pattern

DEMO USER 1	Modular V8.20	Thursda	ay 26 November 2009
Pattern 4 of 8			Example 4
MFC18-BEECH	000	01/Example4/Example4/DEF	AULT/DEFAULT/5
Board: MFC18-BEECH/02 Material: MFC18-BEECH Prelaminated	Waste: 24.53% I - Beech 18mm	Size: 24	40.0 x 1220.0 x 18.0 Boards: 3
	1524.6	915.4	
5.2 PTX/03 670 x 329	PTX/03 670 x 329	PTX/01	140.6
329.0 T PTX/03 670 X 329	T PTX/03 670 X 329	765 X 601	
329.0	book\$/3/1	PTX/03 670 X 329	235.6
455.0 82.6 82.6		270.4	
Saw kerf: 4.8 Book height 3 Cycles 1 Rear rip trim with kerf - Rip: 10.0 Cross:	10.0 Retrim with kerf: 5.0 Grain directio	on:	
No Part Length	Width Total Cut Perbrd Perptn	To cut Edge Btm E	dge Top I
1 DTX/01 765.0	mm rrod 601.0 33 30 1 2	NII	
8 Finished size 765.0 x 601.0 9	Drawing name 00002250* 15 Part grain	ning Grained 16 Volume MED	
G., INGROU SILC / CO.C & COI.C. 3.	Stanling name 00002200 , 10.1 all gran	E	
4. PTX/03 670.0	329.0 20 NIL 5 15		
4. PTX/03 670.0 8.Finished size 670.0 x 329.0 9	329.0 20 NIL 5 15 Drawing name 00002253*. 15 Part grain	ning Grained, 16.Volume MFD	
4. PTX/03 670.0 8. Finished size 670.0 x 329.0, 9. 8. DOORS/3/1 1504.8	329.0 20 NIL 5 15 Drawing name 00002253*, 15.Part grain 455.0 22 18 1 3	ning Grained, 16.Volume MED	

Part list grain match - Information box set for grain matching.

DEN	10 USER 1		Modular V8.20		Thur	sday 2	26 Nove	emb	er 2009
Pai	t list							Еx	ample 4
Ref	Example4				Opt	DEFAU	ULT Sa	aw	DEFAULT
No	Description	Material	Length	Width	Qty	Over	Under	Gr	Edge
1.	PTX/01	MFC18-BEECH	765.0	601.0	33	0	0	Y	0000
2.	PTX/02	MFC18-BEECH	1020.0	520.0	21	0	0	Y	0000
3.	PLINTH/04	MFC18-BEECH	1260.0	148.0	25	0	0	Y	0000
4.	PTX/03	MFC18-BEECH	670.0	329.0	20	0	0	Υ	0000
5.	PTX/21	MFC18-BEECH	480.0	902.0	30	0	0	Y	0000
6.	PTX/4	MFC18-BEECH	750.0	455.0	22	0	0	Y	0000
	18.Grain matching	DOORS/3:1:0							
7.	PTX/5	MFC18-BEECH	750.0	455.0	22	0	0	Y	0000
	18.Grain matching	DOORS/3:2:0							

Fig. 72

Each part for grain matching is allocated to a template e.g. DOORS/3

Transfer to saw

Runs are transferred to the saw as a batch.

DEMO USER 1		1	4odular V8.20	Thurs	day 26 November 2009
Transfer to saw Holzm	a Cadmatic IV				
Batch name: Example6				Description: Kit	chen layout-Material
No Cutting list	Title	Run	Optimising parameters	Saw parameters	Board list
1. Example6	Kitchen layout	00005	DEFAULT	DEFAULT	Example6
2. Example6-01	Kitchen layout	00006	DEFAULT	DEFAULT	Example6-01
Example6-02	Kitchen layout	00007	DEFAULT	DEFAULT	Example6-02
4. Example6-03	Kitchen layout	00008	DEFAULT	DEFAULT	Example6-03
5. Example6-04	Kitchen lavout	00009	DEFAULT	DEFAULT	Example6-04
Transfer to saw - set up

Saw transfer is set up via the Saw transfer parameters. Different transfers can be set up for different saws or export methods.

DEMO USER 1	Modular V8.20	Thursday 26 November 2009
Saw transfer parameters		
No	: 1.	
Name	: Holzma Cadmatic III	
Mode	: 6 - Holzma Cadmatic III/IV	
Path	: c:\v82\Demo\Saw\	
Program name	:	
Warning	: 1	
Saw controller	: Cadmatic III	
Buffered	: N	
Online label PC path	:	
Path for feedback data	: c:\v82\Demo\Saw\Feedback\	
Spare	:	
No	: 2.	
Name	: Holzma Cadmatic IV	
Mode	: 6 - Holzma Cadmatic III/IV	
Path	: c:\v82\Demo\Saw\	
Program name	:	
Warning	:	
Saw controller	: Cadmatic IV	
Buffered	: N	
Online label PC path	:	
Path for feedback data	: c:\v82\Demo\Saw\Feedback\	
Spare	:	
No	: 3.	
Name	: ASCII Pattern Export	
Mode	: 11 - Ascii PTX	
Path	: c:\v82\Demo\Saw\	
Program name	:	
Warning	:	
Buffered	: N	
Pattern image format	:	
Export format	: None	
Use pattern colours in expor	rt: N	
Online label PC path	:	
Spare	:	

Fig. 74

This can include transfer to a group of machines.

Feedback from saw

For some saws/saw controllers Feedback data is available. This can be used for analysis. These are available via the Saw transfer options.

Shift activity - shows analysis of cutting at the saw for a shift.

DEMO USER 1			Modular V8.2)		Thursday 26 No	ovember 2009
Shift activity						8-Oct-07 (1)	8:00:33 am
Shift number	1						
Operator	CVA			1.1.			
Cycles	91	1.1		nn:mm	00 510		
		hh:mm	Cutting time	7:05	89.71%		
Start of shift	08-10-0	7 08:00	Error time	0:12	2.60%		
End of shift	08-10-0	7 16:02	Waiting time	0:23	4.94%		
			Service time	0:13	2.75%		
Shift time		8:02					
Break time		0:08	Operating	7:53	100.00%		
Waiting time						==	
Standstill				0.01			
Unexpected intern	ruption			0.01			
Waiting for mater	rial			0.02			
Mechanical break	fown			0.02			
Saw blade change				0.01			
Other				0.00			
other				0.10			
				0:23			
		==========				==	
Material use	Quantity	Area m2	Percent				
						==	
Parts	1834	870.49	82.40%				
Waste		185.97	17.60%				
	0.67						
Boards	267	1056.46	100.00%				

Feedback from saw - Error summary for shifts

DEMO USER	1 Modular V	8.20	Thursday 26 November 2009
Error summ	ary		9-Oct-07 (1) 8:04:33 am
Number	Message	Time (hh:mm:ss)	
007	Feed conveyer has failed	0:00:50	====
010	Head cut saw blade obstructed by clamps	0:02:15	
032	Job is too large for available memory	0:04:41	
035	Floppy disk drive failure - insert disk	0:01:18	
049	Operator emergency stop	0:03:08	
Total		0:12:12	

Fig. 76

Feedback from saw - Analyse runs

DEMO USER 1				Modular	: V8.20		Thur	sday 26 Nov	rember 2009
Run activit	У								
						Run:00003	10:17 am	9-0ct-07	Completed
Totals			Estimated	Actual	Varian	ce			
Patterns Cycles			60 152	60 152					
Cutting t	ime		9:30	8:54	-0:36	(hh:mm)			
Material	use Qua	======= ntity	Area	m2	Perc	ent			
	Est	Act	Est	Act	Est	Act			
Darto	2384	2381	1354 10	1354 09	80 00%	20 978			
Waste	2304	2004	318.10	318.24	19.02%	19.03%			
Boards	546	546	1672.22	1672.32	100.00%	100.00%			

Nesting optimising

The program includes Nesting optimising options. These are for runs that are divided and machined at Machining centres.

Part lists and boards are added in the usual way. Where part drawings are used these may be set up in the Machining library or via MPR files.

The part list/cutting list is optimised using the Nesting optimiser options.

Nesting part list

DEMO	USER 1	Modular	V8.20		Τu	esday	1 Dece	embe	er 2009
Part	list					Ne	sting	exa	ample 1
Ref E	SSR NEST-1				Opt	NESTIN	IG Sav	v M·	CENTRE
No	Description	Material	Length	Width	Qty	Over	Under	Gr	Edge
1. 3.	F-UNIT-END-LEFT Edge left WHITE-TAPE-22MM	MED-DEN-FIBRE-18MM	585.0	870.0	3	0	0	N	0000
2. 4.	F-UNIT-END-RIGHT Edge Right WHITE-TAPE-22MM	MED-DEN-FIBRE-18MM	585.0	870.0	2	0	0	Ν	0000
3. 4. 5. 6. 7. 8. 9. 10. 11.	N-BTH-WORKTOP N-OCT-TABLE N-SHELF-ANGLE-L N-SHELF-ANGLE-R N-SHELF-ARC N-SHELF-CURVE N-SHELF-CURVE N-SHELF-TRI N-SHELF-TRI N-SHELF-TRI	MED-DEN-FIBRE-18MM MED-DEN-FIBRE-25MM MED-DEN-FIBRE-18MM MED-DEN-FIBRE-18MM MED-DEN-FIBRE-18MM MED-DEN-FIBRE-18MM MED-DEN-FIBRE-18MM MED-DEN-FIBRE-25MM	$\begin{array}{c} 1500.0\\ 965.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 650.0\end{array}$	$\begin{array}{c} 620.0\\ 965.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 500.0\\ 210.0\\ \end{array}$	3 8 6 3 5 5 18		0 0 0 0 0 0 0 0	N N N N N N N	0000 0000 0000 0000 0000 0000 0000 0000 0000

Nesting parameters

These are used to set the Nesting features the type of nesting optimiser (Rectangular or shaped), margins, offcuts etc.

DEMO USER 1 Modular V	8.20	Tuesday 1 December 2009
Nesting parameters - NESTING Nesting optimiser		
Nesting 1		
Optimiser type	Shaped nesting II	
Minimum part separation	10.0	
Board orientation	Lengthways	
Nesting origin	Top left	
Board margins		
Тор	15.0	
Bottom	15.0	
Left	15.0	
Right	15.0	
Override margins for large parts	No	
Small parts		
Offset small parts from the edge	Yes	
Min. area for nesting on the edge	0.000	
Minimum offset from the edge	100.0	
Priority		
Box for priority	None	
Global step angle		
Use global step angle	No	
Nesting 2		
Board template	\User1\board.mpr	
Check MPR program for errors	Yes	
Spare		
Nesting 3		
Part processing sequence		
Min area for sequence by path	0.000	
Origin for sequencing	Bottom left	
Parts numbering		
Identify parts	Yes	
MPR component	Use laser macros	
Number size	50	
Board variables globally for all programs	No	
Delete inactive macros	No	
Processing templates		
Tool optimisation template		
Offcuts		
Offcut dimensions		
Length		
Minimum	800.0	
Maximum	9999.0	
Grid	0.0	

Fig. 79

'Saw' parameters are used to describe the set up for each machining centre.

Nesting preview

The result of the Nesting optimisation is a set of patterns.



Nesting optimising - Pattern for shaped nesting



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Nesting optimising - Pattern for rectangular nesting



Nested optimising - pattern editor

Nested patterns produced by the Nesting optimisers can be viewed and edited.





Nested optimising - machining library

Part drawings for Nesting are created in the Machining library.

DEMO USER 1	Modular V8.20	Tuesday 1 December 2009
Machining drawings		
CORNER-SHELF 760x760	CORNER-TOP 764x764	D-BASE-BOTTOM 1200x800
D-BASE-DIVIDER 40x800	D-BASE-DOOR/L 498x800	D-BASE-DOOR/R 498x800
	¢	¢

ıg. 84

Nested optimising - MPR files

Parts and Part drawings for nesting can also be MPR files



Nested optimising - transfer

Nested runs are transferred to the machining centre via the Machining Interface.

DEMO	USER 1		1	Modular V8.20	Τι	lesday 1 December	2009
Trans	fer to machining	centre Weeke					
Batch	name: BSR NEST				De	escription:	
No	Cutting list	Title	Run	Optimising parameters	Saw parameters	s Board list	
1. 2. 3.	BSR NEST-1 BSR NEST-2 BSR R-NEST	Nesting examp Nesting examp Rectangular n	00117 00118 00119	NESTING NESTING R-NEST	M-CENTRE M-CENTRE M-CENTRE	BSR NEST-1 BSR NEST-2 BSR R-NEST	

Fig. 85-1

Destacking and Palletising

This section shows examples of the reports available for destacking (offstacking). This can include both manual methods and mechanical offstacking machinery.

Destacking library - stores information about the available pallet sizes and the rules for using and cutting baseboards.

DEMO US	ER 1		I	Modular	V8.20				1	lues	day	1 Dece	mber	2009
Destack	ing lib	prary												
Ref							Per	Max	Мах	OVe	er			Per
	Type	Material	Thk	Length	Width	Layout	Stk	No	Ht	Ln	Wd	Layout	LW	Stn
BASE1	1	MEL-CHIP-15MM	15.0	2000.0	2000.0	1x1	1	40	1000.	.00	0	2x2	L	2
BASE2	1	MED-DEN-FIBRE-25MM	25.0	3500.0	3000.0	1x1	2	100	3000.	.010	10	4x4	W	2
PLT/1	0	CHIPBOARD-18MM	18.0	3020.0	3200.0	1x1	1	50	2000.	.00	0	3x3		2
PLT/2	0	CHIPBOARD-18MM	18.0	2020.0	2020.0	1x1	0	45	1500.	.05	0	2x3	L	2
PLT/3	0	CHIPBOARD-18MM	18.0	1000.0	1000.0	1x1	0	50	1500.	.00	0	1x1		2

Fig. 86

For Baseboards the material code is needed so that the baseboard cutting list can be created and baseboards patterns created for cutting the baseboards.

The destacking parameters are used to define which field in the part list holds the destacking library code for the destacking style.

Destacking pictures - destacking layout for each part

			00011/Example	e9/Example9/	?DEFAULT/	PEFAULT/8
Part:1.F-UNIT-BACK Stacks:2 Stn:1 Baseboard:1 1420x900	Quantity:200 Patterns:1-2	Part:2.F-UNIT-BASE Stacks:2 Stn:1 Baseboard:5 1840x930	Quantity:200 Patterns:5-9	Part:3.F-UNIT Stacks:2 Baseboard:3 1	-END-LEFT Stn:1 1755x1740	Quantity:450 Patterns:3
Style:BASE1	Quantity:2	Style:BASE1	Quantity:2	Style:BASE1		Quantity:2
F-UNIT-BACK	F-UNIT-BACK	F-UNIT-BASE	F-UNIT-BASE			
710 X 450	710 X 450	920 X 465	920 X 465	3	3	3
		F-UNIT-BASE	F-UNIT-BASE	585 X 870	585 X 870	585 X 870
F-UNIT-BACK	F-UNIT-BACK	920 X 465	920 X 465			
710 X 450	710 X 450	·				
					_	
				3	3	3
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 3aseboard:3 1755x174	GHT Quantity:450 Patterns:4 0	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020	Quantity:300 Patterns:6-12	Part:6.F-UNIT Stacks:2 Baseboard:41	-RAIL Stn:2 1710x700	Quantity:400 Patterns:3-11
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 3aseboard:3 1755x174 Style:BASE1	GHT Quantity:450 I Patterns:4 0 Quantity:2	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2	Quantity:300 Patterns:6-12 Quantity:0	Part:6.F-UNIT Stacks:2 Baseboard:41 Style:BASE1 F-INIT-FATI	-RAIL Stn:2 1710×700	Quantity:400 Patterns:3-11 Quantity:2
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 Baseboard:3 1755x174 Style:BASE1	GHT Quantity:450 I Patterns:4 0 Quantity:2	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2	Quantity:300 Patterns:6-12 Quantity:0	Part:6.F-UNIT: Stacks:2 Baseboard:4 1 Style:BASE1 F-UNIT-RAIL	-RAIL Stn:2 1710x700 F-UNIT-RAIL	Quantity:400 Patterns:3-11 Quantity:2 F-UNIT-RAIL
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 3aseboard:3 1755x174 Style:BASE1	GHT Quantity:450 I Patterns:4 0 Quantity:2 4	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2 F-UNIT-PLINTH	Quantity:300 Patterns:6-12 Quantity:0 F-UNIT-PLINTH	Part:6.F-UNIT Stacks:2 Baseboard:4 1 Style:BASE1 F-UNIT-RAIL 570 X 350 E-INIT-RAIL	-RAIL Stn:2 1710x700 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL	Quantity:400 Patterns:3-11 Quantity:2 P-UNIT-RAIL 570 X 350 P-UNIT-RAIL
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 3aseboard:3 1755x174 Style:BASE1 4 4 585 x 870 585 x	GHT Quantity:450 I Patterns:4 0 Quantity:2 4 870 585 x 870	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2 F-UNIT-PLINTH 920 x 450	Quantity:300 Patterns:6-12 Quantity:0 F-UNIT-PLINTH 920 X 450	Part:6.F-UNIT Stacks:2 Baseboard:4 1 Style:BASE1 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	-RAIL Stn:2 1710x700 F-UNIT-RAIL 570 x 350 F-UNIT-RAIL 570 x 350	Quantity:400 Patterns:3-11 Quantity:2 F-UNIT-RAIL 570 x 350 F-UNIT-RAIL 570 x 350
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 Baseboard:3 1755x174 Style:BASE1 4 4 585 x 870 585 x	GHT Quantity:450 I Patterns:4 Quantity:2 4 870 585 x 870	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2 F-UNIT-PLINTH 920 x 450 F-UNIT-PLINTH	Quantity:300 Patterns:6-12 Quantity:0 F-UNIT-PLINTH 920 x 450 F-UNIT-PLINTH	Part:6.F-UNIT Stacks:2 Baseboard:4 1 Style:BASE1 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	-RAIL Stn:2 1710×700 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	Quantity:400 Patterns:3-11 Quantity:2 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 Saseboard:3 1755x174 Style:BASE1 4 4 585 x 870 585 x	GHT Quantity:450 Patterns:4 Quantity:2 4 870 585 x 870	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2 F-UNIT-PLINTH 920 x 450 F-UNIT-PLINTH 920 x 450	Quantity:300 Patterns:6-12 Quantity:0 F-UNIT-PLINTH 920 x 450 F-UNIT-PLINTH 920 x 450	Part:6.F-UNIT Stacks:2 Baseboard:4 1 Style:BASE1 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	-RAIL Stn:2 1710x700 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	Quantity:400 Patterns:3-11 Quantity:2 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 Baseboard:3 1755x174 Style:BASE1 4 4 585 x 870 585 x	GHT Quantity:450 I Patterns:4 Quantity:2 4 870 585 x 870	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2 F-UNIT-PLINTH 920 x 450 F-UNIT-PLINTH 920 x 450 F-UNIT-PLINTH	Quantity:300 Patterns:6-12 Quantity:0 F-UNIT-PLINTH 920 X 450 F-UNIT-PLINTH 920 X 450 F-UNIT-PLINTH	Part:6.F-UNIT Stacks:2 Baseboard:4 1 Style:BASE1 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	-RAIL Stn:2 1710x700 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	Quantity:400 Patterns:3-11 Quantity:2 F-UNIT-RAIL 570 x 350 F-UNIT-RAIL 570 x 350
Part:4.F-UNIT-END-RIC Stacks:2 Stn:1 Baseboard:3 1755x174 Style:BASE1 4 4 585 x 870 585 x 4 4	GHT Quantity:450 Patterns:4 Quantity:2 4 870 585 x 870 4 870 585 x 870	Part:5.F-UNIT-PLINTH Stacks:2 Stn:4 Pallet:2020x2020 Style:PLT/2 F-UNIT-PLINTH 920 X 450 F-UNIT-PLINTH 920 X 450 F-UNIT-PLINTH 920 X 450	Quantity:300 Patterns:6-12 Quantity:0 F-UNIT-PLINTH 920 X 450 F-UNIT-PLINTH 920 X 450 F-UNIT-PLINTH 920 X 450	Part:6.F-UNIT Stacks:2 Baseboard:4 1 Style:BASE1 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	-RAIL Stn:2 1710x700 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350	Quantity:400 Patterns:3-11 Quantity:2 F-UNIT-RAIL 570 X 350 F-UNIT-RAIL 570 X 350

Destacking pictures

DEMO USER 1	I		Modular V	8.20	Tuesday	1 December 2009
Destack	ing pict	tures				Example
				00011/Example	e9/Example9/?DEFAUL	T/?DEFAULT/8
Part:7.F-UNIT- Stacks:1 Baseboard:9 1	-SHELF Stn:1 422x786	Quantity:200 Patterns:11	Part:8.F-UNIT-DOOR Stacks:1 Stn:1 Pallet:3020x3200	Quantity:400 Patterns:14-15	Part:9.F-UNIT-DRAWER Stacks:1 Stn:2 Pallet:3020x3200	Quantity:200 Patterns:14-17
Style:BASE1		Quantity:1	Style:PLT/1	Quantity:1	Style:PLT/1	Quantity:1
7	7	F-UNIT-SHELF				
474 X 393	474 X 393	474 X 393	UM MAL			
7	7	F-UNIT-SHELF	8 8	8		9
474 X 393	474 X 393	474 X 393	8 8	8	9 9	9
					9 9	9

Fig. 88

Where a fixed pallet is used, for example a baseboard placed on a fixed pallet, the fixed pallet size is also shown (shading).

The layout can include a top baseboard and support.

Destacking summary - shows how the parts on each pattern are destacked.

DEMO	D USER	1			Modula	ar V8.20)		Tuesday 1 December 2009
De	stack	ting	summary						Example
						0	0011/E	xample9/Ex	ample9/?DEFAULT/?DEFAULT/8
Ptn	Open Parts	No	Part / Description	Length mm	Width mm	Stn	Qty	Group / Pictures	
1	2	1.	F-UNIT-BACK	710.0	450.0	1	186	2.2	
		10.	F-HOUSING-BACK	574.0	710.0	2	248	4 4 !	
2	2	1.	F-UNIT-BACK	710.0	450.0	1	14*	2 2	
		10.	F-HOUSING-BACK	574.0	710.0	2	2*	4 4 !	
3	2	3.	F-UNIT-END-LEFT	585.0	870.0	1	450*	32	
		6.	F-UNIT-RAIL	570.0	350.0	2	150	32	
4	2	4.	F-UNIT-END-RIGHT	585.0	870.0	1	450*	32	
		6.	F-UNIT-RAIL	570.0	350.0	2	150	32	
5	3	2.	F-UNIT-BASE	920.0	465.0	1	198	22	
		13.	F-HOUSING-RAIL	574.0	680.0	3	330	32	
6	4	5.	F-UNIT-PLINTH	920.0	450.0	4	39	23	
		13.	F-HOUSING-RAIL	574.0	680.0	3	65	32	
7	5	5.	F-UNIT-PLINTH	920.0	450.0	4	20	23	
		6.	F-UNIT-RAIL	570.0	350.0	2	60	32	
		11.	F-HOUSING-BASE	574.0	583.0	5	40	32	
8	6	5.	F-UNIT-PLINTH	920.0	450.0	4	27	23	
		12.	F-HOUSING-PLINTH	600.0	320.0	6	90	32	
9	6	2.	F-UNIT-BASE	920.0	465.0	1	2*	22	
		5.	F-UNIT-PLINTH	920.0	450.0	4	1	23	
		13.	F-HOUSING-RAIL	574.0	680.0	3	5*	32	
10	4	5.	F-UNIT-PLINTH	920.0	450.0	4	1	23	
		1 1 .	F-HOUSING-BASE	574.0	583.0	5	8	32	
11	5	5.	F-UNIT-PLINTH	920.0	450.0	4	80	23	
		6.	F-UNIT-RAIL	570.0	350.0	2	40*	32	
		7.	F-UNIT-SHELF	474.0	393.0	1	200*	32	
		12.	F-HOUSING-PLINTH	600.0	320.0	6	160*	32	
12	2	5.	F-UNIT-PLINTH	920.0	450.0	4	132*	23	
		1 1 .	F-HOUSING-BASE	574.0	583.0	5	66	32	
13	1	1 1 .	F-HOUSING-BASE	574.0	583.0	5	136*	32	

Tuesday 1 December 2009				
ample				
EFAULT/8				

Destacking Station Summary - shows the workflow through each destacking station

DEM	0 USER 1 Modular	V8.20	Tuesday 1	December	2009
DES	TACKING PARAMETERS				
NO	Description	Value			
1.	Size of station 1	3000.0,3000.0,A,			
2.	Size of station 2	3000.0,3000.0,A,			
3.	Size of station 3	6500.0,6500.0,A,			
4.	Size of station 4	6500.0,6500.0,A,			
5.	Size of station 5	1000.0,1000.0,M,			
6.	Size of station 6	4000.0,4000.0,M,			
7.	Size of station 7	6500.0,6500.0,S,			
8.	Size of station 8	6500.0,6500.0,,			
9.	Size of station 9	6500.0,6500.0,,			
10.	Size of station 10	6500.0,6500.0,,			
11.	Size of station 11	6500.0,6500.0,,			
12.	Size of station 12	6500.0,6500.0,,			
13.	Size of station 13	6500.0,6500.0,,			
14.	Size of station 14	6500.0,6500.0,,			
15.	Size of station 15	6500.0,6500.0,,			
16.	Size of station 16	6500.0,6500.0,,			
17.	Size of station 17	6500.0,6500.0,,			
18.	Size of station 18	6500.0,6500.0,,			
19.	Size of station 19	6500.0,6500.0,,			
20.	Size of station 20	6500.0,6500.0,,			
21.	Minimum width of strip for auto destack	50.0			
22.	Minimum length of part for auto destack	100.0			
23.	Box for destack mode	0			
24.	Part books to overflow station	N			
25.	Manual parts to front	N			
26.	Delay use of freed stations	Y			
27.	Spare				
28.	Destacking options - bottom, top, support	#22,,			
29.	Fixed part layout	Y			

Destacking parameters - These are used to set up station sizes and control the destacking process.

Fig. 91

The station sizes are used with the Destacking optimisers to work with destacking machinery and stations.

For destacking to pallets / baseboards on the floor the standard optimisers can be used and the station sizes are ignored.

Materials

DEMO USER 1	Modul	ar V8.20				Tuesd	ay 1 December 200
Board library							
Material	Description	Thickness	Grain	Book	Material parameters	Picture	Туре
BLUE-LAM-1MM	Blue Laminate 1mm	1.0	Y	10			Laminate
CHIPBOARD-18MM	Chipboard Core 18mm	18.0	N	0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
EBONY-LAM-1MM	Ebony Laminate 1mm	1.0	Y	10		100 C	Laminate
GREEN-LAM-1MM	Green Laminate 1mm	1.0	Y	10			Laminate
HARDBOARD-4MM	Hardboard 4mm	4.0	N	8	HBD04	and the second se	
IED-DEN-FIBRE-18MM	Medium Density Fibreboard 18mm	18.0	N	0			MDF
MED-DEN-FIBRE-25MM	Medium Density Fibreboard 25mm	25.0	N	0			MDF
AEL-CHIP-15MM	Prelaminated - White 15mm	15.0	N	0			
AEL-CHIP-18MM	Prelaminated - White 18mm	18.0	N	0			
MFC18-BEECH	Prelaminated - Beech 18mm	18.0	Y	0			MFC
AFC18-EBONY	Prelaminated - Ebony 18mm	18.0	N	0			MFC
AFC18-OAK	Prelaminated - Oak 18mm	18.0	N	0			MFC
AFC18-TEAK	Prelaminated - Teak 18mm	18.0	N	0			MEC
IRROR-GLASS	Mirror Glass (sundry)	5.0	N	Ő			Sundry
DAK-LAM-1MM	Oak Laminate 1mm	1.0	Y	10			Laminate
ARTICLBRD-25MM	Particle board 25mm	25.0	N	0		and the second second	
RED-LAM-1MM	Red Laminate 1mm	1.0	Y	10			Laminate
EAK-FOIL	Foil - teak (sundry)	0.1	Ŷ	0			Sundry
EAK-LAM-1MM	Teak Laminate 1mm	1.0	Ý	10			Laminate
WHITE-ACRYLIC-12MM	Acrylic - White 12mm (sundry)	12.0	N	0			Sundry
VHITE-LAM-1MM	White Laminate 1mm	1.0	Ŷ	10			Laminate
FITTINGS	Fittings	0.0	N	0			

The Board library is a record of all the sheet materials and offcuts. When a cutting list is optimised the program uses the board library to identify the board sizes available for each material.

Fig. 92

The material library is set up as a list of materials and board sizes.

Board library - board sizes

Each material may contain several different board sizes, including offcuts

DEMO USER 1						Modu	ular V8.2	0					Tuesday	1 Decem	nber 2009
Board library															
Board code	Length	Width	Information	Stock	Alloc	Order	Cost	Limit	Bin	Supplier	Min ReÖrder	Grain	Material param	Method	Туре
BLUE-LAM-1MM Blue Laminate 1mm BLUE-LAM-1MM/01	Thickness: 2440.0	1.0 Book: 1220.0	10	142	0	110	5.320	0	232	Laminat	80	N		Sheet	Board
CHIPBOARD-18MM Chipboard Core 1 CHIPBOARD-18MM/01	8mm Thick 2440.0	ness:18. 1220.0	0 Book:0 BIN 180	380	0	100	2.950	0	180	General	200	N		Area	Board
EBONY-LAM-1MM Ebony Laminate 1n EBONY-LAM-1MM/01	nm Thickne 3050.0	ess:1.0 Bi 1525.0	ook:10 BIN 221	580	0	0	5.300	0	221	Laminat	100	Y	Lam 3050x1525	Area	Board
GREEN-LAM-1MM Green Laminate 1r GREEN-LAM-1MM/01	nm Thickne 3050.0	ess:1.0 B 1525.0	ook:10	32	0	0	5.320	0	242	Laminat	40	Y	Lam 3050x1525	Sheet	Board
HARDBOARD-4MM Hardboard 4mm 1 HARDBOARD-4MM/01	Thickness:4 2440.0	1.0 Book:8 1220.0	8 BIN 133	800	18	200	0.890	0	133	General	200	N		Area	Board
MED-DEN-FIBRE-18MM Medium Den MED-DEN-FIBRE-18MM/01	sity Fibrebo 3050.0	bard 18mi 1525.0	m Thickness:1 BIN 127	8.0 Book:0 22055	25	365	4.500	0	127		450	N		Area	Board
MED-DEN-FIBRE-25MM Medium Den MED-DEN-FIBRE-25MM/01	sity Fibrebo 2440.0	ard 25m 1220.0	m Thickness:2 BIN 125	5.0 Book:0 991	0	345	6.300	0	125		120	N		Area	Board
MEL-CHIP-15MM Prelaminated - White MEL-CHIP-15MM/01 MEL-CHIP-15MM/02	e 15mm Th 3050.0 2440.0	iickness:1 1220.0 1220.0	15.0 Book:0 BIN 160 BIN 162	81 1 680	0	120 150	2.590 2.560	0	160 162	General General	90 120	N N		Area Area	Board Board
MEL-CHIP-18MM Prelaminated - White MEL-CHIP-18MM/01 MEL-CHIP-18MM/02	e 18mm Th 3050.0 2440.0	iickness:1 1220.0 1220.0	18.0 Book:0 BIN 150 BIN 151	840 387	0	170 0	3.180 3.140	0	150 151	General General	0	N N		Area Area	Board Board
MFC18-BEECH Prelaminated - Beech MFC18-BEECH/01 MFC18-BEECH/02	18mm Thia 3050.0 2440.0	ckness:18 1525.0 1220.0	3.0 Book:0	1702 1630	0	140 0	3.210 2.960	0			120 120	Ŷ		Area Area	Board Board
MFC18-EBONY Prelaminated - Ebony MFC18-EBONY/01 MFC18-EBONY/02	18mm Thio 3050.0 2440.0	ckness:18 1220.0 1220.0	3.0 Book:0	745 523	0	185 42	5.760 5.210	0			120 120	N N		Area Area	Board Board

Fig. 93

Quantity - covers physical stock, allocated stock and stock on order.

Offcuts - library can include offcuts from previous optimisations. *Limit* - this is used to set how boards are used e.g. in a fixed ratio, or how to deal with low stock.

Board list - Optimising

The program uses the Board library to create a Board list containing the candidate board sizes for each optimisation.

For example, if a part list contains a part with the material code MED-DEN-FIBRE-18MM then those boards sizes are candidates boards for the optimisation and are included in the board list.

DEMO	USER 1	Modular	Modular V8.20							
Board	d list									
Ref E	3SR CD-81									
No	Board	Material	Length	Width	Thk	Qty	Cost Limit			
1. Ir	HARDBOARD-4MM/01 nformation: BIN 133, Grain:	HARDBOARD-4MM N	2440.0	1220.0	4.0	782	0.890 0			
2. Ir	MED-DEN-FIBRE-18MM/01 nformation: BIN 127, Grain:	MED-DEN-FIBRE-18MM N	3050.0	1525.0	18.0	22030	4.500 0			
3. G1	MFC18-OAK/01 cain: N	MFC18-OAK	3050.0	1220.0	18.0	430	3.300 0			
4. G1	MFC18-OAK/02 rain: N	MFC18-OAK	2440.0	1220.0	18.0	102	2.970 0			
5. Gi	WHAC12/01 rain: N	WHITE-ACRYLIC-12MM	2440.0	1220.0	12.0	332	1.320 4			

Materials - offcut summary

For each optimised run there may be several offcuts. These can be stored in the board library for later use.

EMO USER 1			Modular V8.2	20	Tuesday 1 December 200				
Offcut su	nmary					K	Litcher	ı layoı	
			0000)3/BSR CD-	-81/BSR CE)-8 1/?DE	FAULT/?I	DEFAULT	
No	Description	Length	Width	Total	Area	Cost	Cost /	Total Cost	
					1112	1112	Oncut	COSL	
Offcut value - res	tocking 11.90 Cost rec	luction 0.00							
	4M* Hardboard 4mm Th	nickness 40 Bor	ok 8 Parameter	rs HBD∩4 Mi	n size 850.0 \	x 400 0			
					11 3120 000.07	1400.0			
1. X00	003/0001	935.7	488.2	1	0.457	0.445	0.203	0.20	
2. X00	003/0002	924.4	464.0	1	0.429	0.445	0.191	0.19	
					0.886			0.39	
	19MM Modium Donait	v Eibroboord 19n	m Thickness	19 0 Pook F	Min aiza 200	0 x 200 0			
			IIII THICKNESS	TO.U DOOK J	IVIIII SIZE 300.	<u>0 A 200.0</u>			
3. X00	003/0003	3050.0	1206.4	1	3.680	2.250	8.279	8.28	
4. X00	003/0004	533.2	218.2	1	0.116	2.250	0.262	0.26	
					3.796			8.54	
	laminated Oak 18mm	Thickness 18.0	Rook 5 Min siz	- 300 0 X 20	1 0				
WIPC 10-OAK FIE		THICKNESS TO.U L	JOOK J WITT SIZ	e 300.0 X 20	<u></u>				
5. X00	003/0005	1319.0	486.4	1	0.642	1.485	0.953	0.95	
6. X00	003/0006	2440.0	206.4	1	0.504	1.485	0.748	0.75	
7. X00	003/0007	776.4	395.2	1	0.307	1.485	0.456	0.46	
8. X00	003/0008	1116.2	205.2	1	0.229	1.485	0.340	0.34	
9. X00	003/0009	937.8	208.4	1	0.195	1.485	0.290	0.29	
10. X00	003/0010	563.2	216.0	1	0.122	1.485	0.181	0.18	
					1.998			2.97	

Board library - Boards only

DEMO USER 1					Мо	dular V	8.20						Tuesda	ay 1 December 2009
Board library														
Board code	Material	Length	Width	Thickne	Informa	Stock	Alloc	Order	Cost	Li	Supplier	Min Stk ReOr	Grain	Material parameters
BLUE-LAM-1MM/01	BLUE-LAM-1MM	2440.0	1220.0	1.0		142	0	110	5.320	0	Laminate Supply	80	N	
CHIPBOARD-18MM/01	CHIPBOARD-18MM	2440.0	1220.0	18.0	BIN 180	380	0	100	2.950	0	General Boards Inc	200	N	
EBONY-LAM-1MM/01	EBONY-LAM-1MM	3050.0	1525.0	1.0	BIN 221	580	0	0	5.300	0	Laminate Supply	100	Y	Lam 3050x1525
GREEN-LAM-1MM/01	GREEN-LAM-1MM	3050.0	1525.0	1.0		32	0	0	5.320	0	Laminate Supply	40	Y	Lam 3050x1525
HARDBOARD-4MM/01	HARDBOARD-4MM	2440.0	1220.0	4.0	BIN 133	800	18	200	0.890	0	General Boards Inc	200	N	
MED-DEN-FIBRE-18M	MED-DEN-FIBRE-18MM	3050.0	1525.0	18.0	BIN 127	220	25	365	4.500	0		450	N	
MED-DEN-FIBRE-25M	MED-DEN-FIBRE-25MM	2440.0	1220.0	25.0	BIN 125	991	0	345	6.300	0		120	N	
MEL-CHIP-15MM/01	MEL-CHIP-15MM	3050.0	1220.0	15.0	BIN 160	811	0	120	2.590	0	General Boards Inc	90	N	
MEL-CHIP-15MM/02	MEL-CHIP-15MM	2440.0	1220.0	15.0	BIN 162	680	0	150	2.560	0	General Boards Inc	120	N	
MEL-CHIP-18MM/01	MEL-CHIP-18MM	3050.0	1220.0	18.0	BIN 150	840	0	170	3.180	0	General Boards Inc	0	N	
MEL-CHIP-18MM/02	MEL-CHIP-18MM	2440.0	1220.0	18.0	BIN 151	387	0	0	3.140	0	General Boards Inc	0	N	
MFG18-BEECH/01	MFC18-BEECH	3050.0	1525.0	18.0		1702	0	140	3.210	0		120	. Y	
MEC18-BEECH/02	MEG18-BEECH	2440.0	1220.0	18.0		1630	0	0	2.960	0		120	Y.	
MFC18-EBONY/01	MFC18-EBONY	3050.0	1220.0	18.0		745	0	185	5.760	0		120	N	
MEC18-EBONY/02	MEC18-EBONY	2440.0	1220.0	18.0		523	0	42	5.210	0		120	N	
MFC18-OAK/01	MEC18-OAK	3050.0	1220.0	18.0		430	0	94	3.300	0		120	N	
MEC18-UAK/02	MEC18-OAK	2440.0	1220.0	18.0		120	18	10	2.970	0		120	N	
MEC18-TEAK/01	MEC18-TEAK	2440.0	1220.0	18.0		1020	0	121	3.110	ů,		120	N	
MIPCIB-TEANU2	MPC18-TEAK	3050.0	1525.0	18.0		950	0	0	3.110	ÿ		80	N	
MIRROR-GLASS	MIRROR-GLASS	0.0	1505.0	5.0	DINLOWE	000	0	400	3.200	4	Leaster Courses	0	N	1 2050-4505
OAK LAM 1MM/01	OAK LAM 1MM	3050.0	1020.0	1.0	BIN 215	303	0	140	5.670	0	Laminate Supply	U		Lam 3050x1525
DARTICI PRO 26MM/01	DARTICI DDD 25MM	2440.0	1220.0	25.0	DIN 210	420	0	220	1 200	Ň	caminate Supply	*0	T N	
DADTICI DDD 25MM/01	PARTICLERD-25MM	2050.0	1525.0	20.0	DIN 105	400	0	230	1.200	Ň		40		
PED LAM 1MM/01	PED LAM 1MM	2440.0	1220.0	20.0	BIN 100	2020	0	90	6.220	0	Lominote Supply	40	÷	
RED-LAM-1MM/02	RED-LAM-1MM	3050.0	1525.0	1.0	No Grain	111	ň	50	5 3 2 0	0	Laminate Supply	50	N	
TEAK FOIL /01	TEAK FOUL	0.0000	0.0	0.1	NO CIAIT		ő		2.520	ĕ	carninate ouppry	0	ÿ	
TEAK AM.1MM/01	TEAK-LAM-1MM	2440.0	1220.0	1.0	BIN 204	782	ő	ň	5.030	ň	Laminate Supply	100	ý	
TEAK JAM 1MM/02	TEAK JAM 1MM	3050.0	1525.0	1.0	BIN 205	269	ň	116	5 930	ň	Laminate Supply	100	Ý	Lam 3050x1525
WHAC12/01	WHITE ACRYLIC 12MM	2440.0	1220.0	12.0	5111 200	540	208		1 320	4	caninate capping	0	Ň	Edin bobox rozo
WHITE-LAM-1MM/01	WHITE-LAM-1MM	2550.0	1525.0	10	BIN 210	320	- 00	472	5.340	0	Laminate Supply	80	ÿ	
X00125/0001	MEC18-TEAK	1011.0	780.0	18.0	2011210	1	ő	0	1.550	ŏ	zonninero ouppi) ni	0	Ň	
X00135/0003	MEC18-TEAK	564.0	488.0	18.0		1	ő	ő	1.550	ň		õ	N	
X00148/0001	MEC18-TEAK	950.0	620.0	18.0		1	ō	ō	1.550	ō		ō	N	
ZDD4B-BROWN-HAND	Z-FITTINGS	0.0	0.0	0.0		238	ō	ō	0.950	ō	C&F Fittings Ltd	150	N	
ZDD4W-WHITE-HAND	Z-FITTINGS	0.0	0.0	0.0		487	Ō	õ	0.780	Ó	The Fixtures Com	320	N	
Z-DOUBLE	Z-FITTINGS	0.0	0.0	0.0		540	0	0	1.210	0	The Fixtures Corn	550	N	
Z-DÓWEL	Z-FITTINGS	0.0	0.0	0.0		2983	0	0	0.120	0	C&F Fittings Ltd	1000	N	
Z-DRAWER-SCREW	Z-FITTINGS	0.0	0.0	0.0		1730	0	0	0.120	0	C&F Fittings Ltd	1000	N	
ZH120-HINGE	Z-FITTINGS	0.0	0.0	0.0		192	0	0	0.360	0	The Fixtures Com	200	N	
ZH180-HINGE	Z-FITTINGS	0.0	0.0	0.0		322	0	0	0.400	0	The Fixtures Com	200	N	
Z-HANGING-RAIL	Z-FITTINGS	0.0	0.0	0.0		93	0	0	1.960	0	The Fixtures Com	120	N	
Z-RUNNER	Z-FITTINGS	0.0	0.0	0.0		328	0	0	0.430	0	The Fixtures Com	200	N	
ZS25-6-ROUND-SCREW	Z-FITTINGS	0.0	0.0	0.0		2178	0	0	0.010	0	C&F Fittings Ltd	1000	N	
Z\$40-8-C\$UNK-\$CREW	Z-FITTING\$	0.0	0.0	0.0		3249	0	0	0.010	0	C&F Fittings Ltd	1000	N	
Z-SHELF-SUPPORT	Z-FITTINĜŜ	0.0	0.0	0.0		5375	0	0	0.190	0	The Fixtures Com	2000	N	
Z-SINGLE	Z-FITTINGS	0.0	0.0	0.0		452	0	0	0.950	0	The Fixtures Com	460	N	
Z-SINGLE-BEECH	Z-FITTINGS	0.0	0.0	0.0		210	0	0	0.520	0	C&F Fittings Ltd	220	N	
Z-SINGLE-BRASS	Z-FITTINGS	0.0	0.0	0.0		186	0	0	1.020	0	C&F Fittings Ltd	200	N	
Z-SINGLE-OAK	Z-FITTINGS	0.0	0.0	0.0		123	0	0	0.520	0	C&F Fittings Ltd	150	N	

This is an alternative layout for the library showing a list of board sizes.

Board library - export

Board data can be exported to an external file.

CHIPBOARD-18MM/01.380.CHIPBOARD-18MM.2440.0.1220.0.18.0.2.950.0.BIN 180.Chipboard Core 18mm.0.0.
EBONY-LAM-1MM/01.580.EBONY-LAM-1MM.3050.0.1525.0.1.0.5.300.0.BIN 221.Ebony Laminate 1mm.1.10.
GREEN-LAM-1MM/01.32 GREEN-LAM-1MM.3050.0.1525.0.1.0.1.144.0. Green Laminate 1mm.1.10.
HARDBOARD-4MM/01.793 HARDBOARD-4MM.2440.0.1220.0.4.0.0.890.0.BIN 133 Hardboard 4mm.0.8.HBD04
MED-DEN-FTBRE-18MM/01.1086.MED-DEN-FTBRE-18MM.3050.0.1525.0.18.0.4.500.0.BIN 127. Medium Density Fib
MED-DEN-FIBRE-25MM/01.991.MED-DEN-FIBRE-25MM.2440.0.1220.0.25.0.6.300.0.BIN 125.Medium Density Fibr
MEL-CHIP-15MM/01.811.MEL-CHIP-15MM.3050.0.1220.0.15.0.2.590.0.BIN 160.Prelaminated - White 15mm.0.0
MEL-CHIP-15MM/02,680.MEL-CHIP-15MM.2440.0,1220.0.15.0,2.560.0.BIN 162.Prelaminated - White 15mm.0.0
MEL-CHIP-18MM/01.840.MEL-CHIP-18MM.3050.0.1220.0.18.0.3.180.0.BIN 150.Prelaminated - White 18mm.0.0
MEL-CHIP-18MM/02,387,MEL-CHIP-18MM,2440.0,1220.0,18.0,3.140.0,BIN 151,Prelaminated - White 18mm,0,0
MFC18-BEECH/01,1702,MFC18-BEECH,3050.0,1525.0,18.0,3.210,0,,Prelaminated - Beech 18mm,0,0,
MFC18-BEECH/02,1630,MFC18-BEECH,2440.0,1220.0,18.0,2.960,0,,Prelaminated - Beech 18mm,0,0,
MFC18-EBONY/01,745,MFC18-EBONY,3050.0,1220.0,18.0,5.760,0,,Prelaminated - Ebony 18mm,0,0,
MFC18-EBONY/02,523,MFC18-EBONY,2440.0,1220.0,18.0,5.210,0,,Prelaminated - Ebony 18mm,0,0,
MFC18-0AK/01,427,MFC18-0AK,3050.0,1220.0,18.0,3.300,0,,Prelaminated - Oak 18mm,0,0,
MFC18-OAK/02,118,MFC18-OAK,2440.0,1220.0,18.0,2.970,0,,Prelaminated - Oak 18mm,0,0,
MFC18-TEAK/01,1020,MFC18-TEAK,2440.0,1220.0,18.0,3.110,0,,Prelaminated - Teak 18mm,0,0,
MIRROR-GLASS,0,MIRROR-GLASS,0.0,0.0,5.0,3.200,4,,Mirror Glass (sundry),0,0,
OAK-LAM-1MM/01,383,OAK-LAM-1MM,3050.0,1525.0,1.0,5.670,0,BIN 215,Oak Laminate 1mm,1,10,
OAK-LAM-1MM/02,59,OAK-LAM-1MM,2440.0,1220.0,1.0,5.670,0,BIN 216,Oak Laminate 1mm,1,10,
PARTICLERD-25MM/01,430,PARTICLERD-25MM,2440.0,1220.0,25.0,1.200,0,BIN 105,Particle board 25mm,0,0,
PARTICLERD-25MM/02,520,PARTICLERD-25MM,3050.0,1525.0,25.0,1.230,0,BIN 106,Particle board 25mm,0,0,
RED-LAM-1MM/01,202,RED-LAM-1MM,2440.0,1220.0,1.0,1.787,0,,Red Laminate 1mm,1,10,
RED-LAM-1MM/02,111,RED-LAM-1MM,3050.0,1525.0,1.0,1.144,0,No Grain,Red Laminate 1mm,1,10,
TEAK-FOIL/01,0,TEAK-FOIL,0.0,0.0,0.1,2.520,6,,Foil - teak (sundry),1,0,
TEAK-LAM-1MM/01,782,TEAK-LAM-1MM,2440.0,1220.0,1.0,5.930,0,BIN 204,Teak Laminate 1mm,1,10,
TEAK-LAM-1MM/02,269,TEAK-LAM-1MM,3050.0,1525.0,1.0,5.930,0,BIN 205,Teak Laminate 1mm,1,10,
WHAC12/01,504,WHITE-ACRYLIC-12MM,2440.0,1220.0,12.0,1.320,4,,Acrylic - White 12mm (sundry),0,0,
WHITE-LAM-1MM/01,320,WHITE-LAM-1MM,2550.0,1525.0,1.0,5.340,0,BIN 210,White Laminate 1mm,1,10,
X00001/0001,1,HARDBOARD-4MM,2440.0,629.2,4.0,0.445,0,,Hardboard 4mm,0,8,HBD04
X00001/0002,1,MED-DEN-FIBRE-18MM,1779.4,1525.0,18.0,2.250,0,,Medium Density Fibreboard 18mm,0,0,
X00001/0003,1,MED-DEN-FIBRE-18MM,919.6,546.2,18.0,2.250,0,,Medium Density Fibreboard 18mm,0,0,
X0001/0004,1,MED-DEN-FIERE-18MM,581.0,248.6,18.0,2.250,0,,Medium Density Fibreboard 18mm,0,0,
X00001/0005,1,MED-DEN-FIBRE-18MM,417.4,281.0,18.0,2.250,0,,Medium Density Fibreboard 18mm,0,0,
X00001/0006,1,MED-DEN-FIERE-18MM,532.0,204.2,18.0,2.250,0,,Medium Density Fibreboard 18mm,0,0,
X00001/00007,1,MED-DEN-FIBRE-18MM,464.0,217.2,18.0,2.250,0,,Medium Density Fibreboard 18mm,0,0,
X00001/0008,1,MED-DEN-FIEKE-18MM,400.0,214.8,18.0,2.250,0,,Medium Density Fibreboard 18mm,0,0,
X00001/0009,1,MFC18-0AK,2440.0,234.4,18.0,1.485,0,,Prelaminated - Oak 18mm,0,0,
A00001/0010,1,MFC13-0AK,2268,6,208.4,18:0,1.650,0, Prelaminated - Oak 18mm,0,0,
AUUUU1/UUI1,1,MFCLB-UAK,597.2,554.7,18.0,1.650,0,9,Prelaminated - Oak 18mm,0,0,
A00001/0012,1,MFC18-0AK,600.0,400.0,18.0,1.465,0,Prelaminated - Oak 18mm,0,0,
AUGUOI, UUIS, I, MFCLB-UAR, 938.4, ZLG.U, I8.U, I.485, U, PYFLAMINATEG - UAR ISMM, U, U,
A00001/0014,1,MFC18-0AK,776.6,205.2,18.0,1.650,0,,Prelaminated - Oak ISMM,0,0,

Fig. 97

The file is in the standard format for the program for boards. BDX

Stock control

This section shows some examples of the many stock reports that are available. The program offers a comprehensive system of physical stock control for sheet materials, fittings (hardware) and edging materials.

Stock - Orders by material

List of stock orders sorted by material

DEMO USER 1 Modular V8.22 Wednesday 25 August 2010 Orders by material Board Length mm Width Stock Order Date Order Area Cost / Cost Order MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23
Board Length mm Width mm Stock Order Date Order Qty Area m2 Cost / m2 Order Cost MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 3244.25 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 3243.23 3244.25
Board Length mm Width mm Stock Order Date Order Qty Area m2 Cost / m2 Order Cost MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-18MM/01 3050.0 1525.0 1221 BSR-STKORD-08 31/08/10 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 155 720.94 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23
Board Length mm Width mm Stock Order Date Order Qty Area m2 Cost / m2 Order Cost MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 MED-DEN-FIBRE-18MM/01 3050.0 1525.0 1221 BSR-STKORD-08 31/08/10 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23
Board Length mm Width mm Stock Order Date Order Qty Area m2 Cost Order m2 MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23
mm mm Qty m2 m2 Cost MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 155 720.94 4.500 3244.25 MED-DEN-FIBRE-18MM/01 3050.0 1525.0 1221 BSR-STKORD-08 31/08/10 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 3244.25 3244.25 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23
MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 720.94 4.500 3244.25 MED-DEN-FIBRE-18MM/01 3050.0 1525.0 1221 BSR-STKORD-08 31/08/10 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23
MED-DEN-FIBRE-18MM/01 3050.0 1525.0 1221 BSR-STKORD-08 31/08/10 155 720.94 4.500 3244.25 MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 3244.25 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 190 565.59 3463.23 3453.23 3453.23
MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 190 565.59 3353.23
<u>MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0</u> MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 190 565.59 6.300 3563.23
MED-DEN-FIBRE-25MM Medium Density Fibreboard 25mm Thickness 25.0 Grain N Book 0 MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23 190 565.59 3563.23 3563.23 3563.23
MED-DEN-FIBRE-25MM/01 2440.0 1220.0 1089 BSR-STKORD-08 31/08/10 190 565.59 6.300 3563.23
190 565 59 3563 23
100 000.00 0000.20
MEL CHIP 15MM Brolominated White 15mm Thickness 15 0 Grain N Book 0
MEL-CHIE-ISMM Fleiannade - Willer Shifth Thickness 13.0 Grain N bok Miller 11.0 (A6 52 - 2.590, 1156.49)
BSR-STKORD-07 23/08/10 55 204 66 530.06
MEL-CHIP-15MM/02 2440.0 1220.0 729 BSR-STKORD-05 09/08/10 <u>110 327.45</u> 2.560 <u>838.27</u>
110 327.45 838.27
NEL OUR JOINT Redenised a Millio Journ Thickney JOO Oracis N Rede O
MEL-CHIP-18/MM Prelaminated - White 18/mm Thickness 18.0 Grailin N Book U
MEL-CHIF-16MM/01 3050.0 1220.0 935 BSR-51KORD-05 99/06/10 1/0 532.57 5.160 2011.57
B3R-31 KOKD-07 23/00/10 40 140.04 47.33
210 /01.41 2404.00
MEL-CHIP-18MM/02 2440.0 1220.0 370 BSR-STKORD-05 09/08/10 40 119.07 3.140 373.89
40 119.07 373.89

Stock Allocations by material

Reserves boards for a job so they are not used for other jobs or estimates

DEMO USER 1 Modular V8.22 Wednesday 25 August 2010 Allocations - by material Board Length Width Stock Order Date Run Allocated Area Volume Cost / Alloc mm mm Qty m2 m3 m2 Cost HARDBOARD-4MM Hardboard 4mm Thickness 4.0 Grain N Book 8 HARDBOARD-4MM/01 2440.0 1220.0 782 0 09/08/10 00096 7 20.84 0.08 0.890 18.55 12/08/10 00101 4 11.91 0.05 10.60 16/08/10 00113 7 20.84 0.08 18.55 18 53.58 0.21 47.69 MED-DEN-FIBRE-18MM Medium Density Fibreboard 18mm Thickness 18.0 Grain N Book 0 8 37.21 0.67 4.500 167.45 MED-DEN-FIBRE-18MM/01 3050.0 1525.0 1221 155 12/08/10 00102 16/08/10 00114 11 51.16 0.92 230.24 19 88.37 1.59 397.68
 MEL-CHIP-18MM Prelaminated - White 18mm Thickness
 18.0 Grain N Book 0

 MEL-CHIP-18MM/01
 3050.0
 1220.0
 933
 210
 09/08/10
 00096
13 48.37 0.87 3.180 153.83 13 48.37 0.87 153.83 10 29.77 0.54 3.140 93.47 MEL-CHIP-18MM/02 2440.0 1220.0 370 40 09/08/10 00096 10/08/10 00100 36 107.16 1.93 336.50 46 136.93 2.46 429.97 MFC18-OAK Prelaminated - Oak 18mm Thickness 18.0 Grain N Book 0 2440.0 1220.0 118 42 12/08/10 00103 MFC18-OAK/02 3 8.93 0.16 2.970 26.52 16/08/10 00115 6 17.86 0.32 53.05 9 26.79 0.48 79.57 WHITE-ACRYLIC-12MM Acrylic - White 12mm (sundry) Thickness 12.0 Grain N Book 0 68 202.42 2.43 1.320 267.20 WHAC12/01 2440.0 1220.0 540 0 12/08/10 00104 16/08/10 00116 36 107.16 1.29 141.46 104 309.59 3.72 408.66 WHITE-LAM-1MM White Laminate 1mm Thickness 1.0 Grain Y Book 10 WHITE-LAM-1MM/01 2550.0 1525.0 106 340 09/08/10 00096 2 7.78 0.01 5.340 41.53 2 7.78 0.01 41.53

Fig. 99

Note - allocations are cancelled when stock is issued for cutting

Stock valuation - value of material in the library

DEMO USER 1		Modula	r V8.22			We	dnesday 25 A	ugust 2010
Stock valuation								
Poard	Longth	Midth	Stock	A.r.o.p.	Volume	Cost /	Cost	
Board	mm	mm	SLOCK	m2	m3	m2	COSI	
BLUE-LAM-1MM Blue Laminate	mm Thickness	1.0 Grain Y Bo	<u>ok 10</u>					
BLUE-LAM-1MM/01	2440.0	1220.0	152	452.47	0.45	1.787	808.57	
				452.47	0.45		808.57	
CHIPBOARD-18MM Chipboard C	ore 18mm Thickn	ess 18.0 Grai	n N Book ()				
CHIPBOARD-18MM/01	2440.0	1220.0	397	1181.79	21.27	2.950	3486.28	
				1181.79	21.27	-	3486.28	
ERONY LAM 1MM Ebeny Longing	to 1mm Thicknes		(Deak 10					
EBONY-LAM-1MM/01	3050 0	1525.0	590	2744 24	2 74	5 300	14544 46	
	0000.0	1020.0		2744.24	2.74	- 0.000	14544.46	
GREEN-I AM-1MM Green Lamina	ate 1mm Thicknes	s 1.0 Grain Y	Book 10					
GREEN-LAM-1MM/01	3050.0	1525.0	32	148.84	0.15	1.144	170.27	
				148.84	0.15		170.27	
HARDBOARD-4MM Hardboard 4	mm Thickness 4	.0 Grain N Boo	ok 8					
HARDBOARD-4MM/01	2440.0	1220.0	782	2327.86	9.31	0.890	2071.79	
				2327.86	9.31	-	2071.79	
MED-DEN-FIBRE-18MM Medium	Density Fibreboa	rd 18mm Thic	kness 18.0	0 Grain N E	Book 0			
MED-DEN-FIBRE-18MM/01	3050.0	1525.0	1221	5679.18	102.23	4.500	25556.29	
				5679.18	102.23		25556.29	

Fig. 100

Valuations are based on the current price.

Stock Orders by supplier - current orders listed in alphabetical order of supplier

DEMO USER 1		Modular V	/8.22			Wednesday 25 August 2010
Orders by supplier						
Board	Qty	Material	Length mm	Width	Thickness mm	
CVA Materials Ltd						
BSR-STKORD-07 23/08/10						
MEL-CHIP-15MM/01	55	MEL-CHIP-15MM	3050.0	1220.0	15.0	
MEL-CHIP-18MM/01	40	MEL-CHIP-18MM	3050.0	1220.0	18.0	
MFC18-EBONY/01	65	MFC18-EBONY	3050.0	1220.0	18.0	
MFC18-EBONY/02	42	MFC18-EBONY	2440.0	1220.0	18.0	
PARTICLBRD-25MM/01	32	PARTICLBRD-25MM	2440.0	1220.0	25.0	
BSR-STKORD-08 31/08/10						
MED-DEN-FIBRE-18MM/01	155	MED-DEN-FIBRE-18MM	3050.0	1525.0	18.0	
MED-DEN-FIBRE-25MM/01	190	MED-DEN-FIBRE-25MM	2440.0	1220.0	25.0	
MFC18-BEECH/02	110	MFC18-BEECH	2440.0	1220.0	18.0	
MFC18-EBONY/01	120	MFC18-EBONY	3050.0	1220.0	18.0	
MFC18-OAK/01	60	MFC18-OAK	3050.0	1220.0	18.0	
MFC18-OAK/02	22	MFC18-OAK	2440.0	1220.0	18.0	
MFC18-TEAK/01	120	MFC18-TEAK	2440.0	1220.0	18.0	
General Boards Inc						
BSR-STKORD-05 09/08/10						
MEL-CHIP-15MM/01	120	MEL-CHIP-15MM	3050.0	1220.0	15.0	
MEL-CHIP-15MM/02	110	MEL-CHIP-15MM	2440.0	1220.0	15.0	
MEL-CHIP-18MM/01	170	MEL-CHIP-18MM	3050.0	1220.0	18.0	
MEL-CHIP-18MM/02	40	MEL-CHIP-18MM	2440.0	1220.0	18.0	
MFC18-BEECH/01	200	MFC18-BEECH	3050.0	1525.0	18.0	
MFC18-BEECH/02	65	MFC18-BEECH	2440.0	1220.0	18.0	
BSR-STKORD-06 15/08/10						
MFC18-BEECH/01	15	MFC18-BEECH	3050.0	1525.0	18.0	
MFC18-BEECH/02	30	MFC18-BEECH	2440.0	1220.0	18.0	
MFC18-OAK/01	10	MFC18-OAK	3050.0	1220.0	18.0	
MFC18-OAK/02	20	MFC18-OAK	2440.0	1220.0	18.0	

DEMO USER 1				Ν	/lodular V	8.22			Wednesday 25 August 201		
Monthly material	sumi	mary									
07/2010											
Material	Parts No	Parts m2	Parts m3	Boards No	Boards m2	Boards m3	Cycles	Time hh:mm	Cost	Average Waste	
CHIPBOARD-18MM	206	48.38	0.86	28	83.34	1.50	12	1:02	245.88	41.95	
HARDBOARD-4MM	102	44.56	0.18	18	53.58	0.20	12	0:50	4 7.70	16.83	
MED-DEN-FIBRE-18MM	102	43.88	0.78	12	55.82	1.00	8	0:42	251.16	21.39	
MED-DEN-FIBRE-25MM	66	10.34	0.26	4	11.90	0.30	4	0:26	75.02	13.11	
MEL-CHIP-15MM	38	3.58	0.06	2	5.96	0.08	2	0:18	15.24	39.93	
MEL-CHIP-18MM	460	138.76	2.48	49	153.58	2.77	22	2:31	483.91	9.65	
OAK-LAM-1MM	32	12.02	0.02	4	18.60	0.02	4	0:20	105.50	35.38	
PARTICLBRD-25MM	52	7.30	0.18	2	9.30	0.24	2	0:22	11.44	21.51	
TEAK-LAM-1MM	46	15.58	0.00	6	24.56	0.02	6	0:32	145.62	36.56	
WHITE-LAM-1MM	110	22.76	0.04	8	31.12	0.04	8	0:50	166.12	26.86	
	1214	347.16	4.86	133	447.76	6.17	80	7:53	1547.59	22.47	

Stock - Monthly material summary - stock movements during a month

Board library - stock

The board library can also contain the stock transactions for each board. The movements in and out of all stock.

DEMO USER 1	Modular V8.22					2	Wednesday 25 August 201									
Board library																
Board code	Leng	th Width	Information	Stock	Alloc	Order	Cost	Limit	Bin	Supplier	Min	ReOrder	Grain	Material parame.	. Method	Туре
RILIE-IAM-1MM Rive Iaminate	1mm Thicknes	e 1 0 Book 1	in													
BLUE-LAM-1MM/01	2440	0 1220.0		152	0	D	5 320	0	232	Laminat	150	180	N		Sheet	Board
Transac	Qtv	Date	Ref				4.000					Type			Cost U	ser
1	+142	29-Jul-10	BLUE-L	AM-1MM								Openi	ng balang	ce	5.320	
72	+10	30-Jul-10	CVA:Ex	dra boards								Adjust	tment		5.320	
CHIPBOARD-18MM Chipboard (Core 18mm Th	ickness:18.0	Book:0													
CHIPBOARD-18MM/01	2440	.0 1220.0	BIN 180	397	0	0	2.950	0	180	General	200	240	N		Area	Board
Transac	Qty	Date	Ref									Туре			Cost U	ser
2	+380	29-Jul-10	CHIPB	DARD-18M	M							Openi	ng balano	be	2.950	
52	-2	29-Jul-10	00086:)	Neek 30								issue			2.950	
57	-12	30-Jul-10	00087:	Week 31								Issue			2.950	
73	+11 +20	30-Jul-10 4-Aug-10	Stock	update.bdx								File	tment		2.950	
EBONY-LAM-1MM Ebony Lamin EBONY LAM-1MM/01	ate 1mm Thicl	(ness:1.0 Bo 0 1525.0	OK:10 BIN 221	500	0	0	5 300	0	221	Laminat	100	150	v	1 am 3050v1625	Area	Boar
Transac	Olv	Date	Ref	000		•	0.000			Lentin let	100	Type		2011 00000 1020	Cost U	ser
3	+580	29-10-10	EBONY	AM-1MM								Oneni	no balano	°.e	5 300	001
81	+10	4-Aug-10	Stock_	update.bdx								File			5.300	
GREEN-LAM-1MM Green Lamin	ate 1mm Thic	kness:1.0 Bo	ok:10													
GREEN-LAM-1MM/01	3050	0 1525.0		32	0	0	5.320	0	242	Laminat	50	60	Y	Lam 3050x1525	Sheet	Board
Transac	Qty	Date	Ref									Type			Cost U	ser
4	+32	29-Jul-10	GREEN	I-LAM-1MN	1							Openi	ng balano	æ	5.320	
HARDBOARD-4MM Hardboard 4	mm Thicknes	s:4.0 Book:8														
HARDBOARD-4MM/01	2440	0 1220.0	BIN 133	782	18	D	0.890	0	133	General	200	240	N		Area	Board
Transac	Qty	Date	Ref									Type			Cost U	ser
5	+800	29-Jul-10	HARDE	BOARD-4M	M							Openi	ng balano	æ	0.890	
46	-7	29-Jul-10	00086:1	Week 30								Issue			0.890	
58	-2	30-Jul-10	00087:1	Week 31								Issue			0.890	
75	-9	30-Jul-10	FLA:Re	move dam	aged b	oard						Adjust	tment		0.890	
MED-DEN-FIBRE-18MM Medium	Density Fibre	eboard 18mm	Thickness:18	0 Book:0												
MED-DEN-FIBRE-18MM/01	3050	.0 1525.0	BIN 127	1221	19	155	4.500	0	127		450	500	N		Area	Board
Transac	Qty	Date	Ref									Туре			Cost U	ser
6	+1097	29-Jul-10	MED-D	EN-FIBRE-	18MM							Openi	ng balanc	ce .	4.500	
50	-6	29-Jul-10	00086:	Week 30								Issue			4.500	
69	+150	30-Jul-10	BSR-S	IKORD-08	CVA N	laterials Li	la					Recei	pt		4.500	
/6	-20	30-Jul-10	FLA:RE	move dam	aged b	oard						Adjust	iment		4.500	
MED-DEN-FIBRE-25MM Mediun	Density Fibre	board 25mm	Thickness:25	.0 Book:0	~	100	c 222		105		400					Deres
WED-DEN-FIBRE-25MM/01	2440	U 1220.0	BIN 125	1089	U	190	6.300	0	1∠5		120	140	N		Area	Board
Transac	+001	20 Jul 10	MED D		OCM NA							ype Oponi	na holona	20	CUST U	sei
EA	-991	29-JUI-10	000860	LIN-FIDRE-	ZONIN							Openi	ng palano	Je .	0.300	
70	+100	29-Jul-10	00000.	TKORD-08		laterials II	d					Recei	nt		6 300	
/0	+100	30-301-10	Dan-a	11000D-08.	CVA IV	atendis Li	iu ii					Recei	br		0.300	

Machining centre interface

The Machining library holds full details of machining for each part including vertical and horizontal drilling, routing, cut-outs, contours, pockets etc. It includes tooling information for the machining centre. Any machining for parts in an optimised run can be automatically downloaded to a Machining centre.

Where necessary print full details of each machining drawing and the machining instructions.

Transfer to Machining centre - Parts lists with machined parts to transfer to machining centre

DEMO	USER 1		1	odular V8.20	Tues	day 1 December 2009
Trans	sfer to saw Holzm	a Cadmatic IV				
Batch	h name: Trans				Desc	ription:
No	Cutting list	Title	Run	Optimising parameters	Saw parameters	Board list
* 1. * 2. * 3. 4. 5.	. BSR CD-81-01 . BSR CD-81-02 . BSR CD-81-03 . BSR CD-81-04 . Example9	Kitchen layout Kitchen layout Kitchen layout Kitchen layout Example	00113 00114 00115 00116 00011	DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT	DEFAULT DEFAULT DEFAULT DEFAULT DEFAULT	BSR CD-81-01 BSR CD-81-02 BSR CD-81-03 BSR CD-81-04 Example9

Fig. 104

This is a print of the details of the batch transferred

Machining library - Thumbnail view of items in library.

DEMO USER 1	Modular V8.20	Tuesday 1 December 200
Machining drawings		
BASE-CABINET-BOTTOM 864x600	BASE-CABINET-DIVIDER 578x520.8	BASE-CABINET-DOOR 400x556.8
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1	· •
BASE-CABINET-DRAWER 400x180.3	BASE-CABINET-DRAWER-LONG 900x186.3 	BASE-CABINET-END-LEFT 600x870
BASE-CABINET-END-RIGHT 600x870	BASE-CABINET-RAIL-BACK 864x150 	BASE-CABINET-RAIL-FRONT 864x150

Fig. 105

Machining library holds all part drawings including machining instructions.

Machining	librarv -	full drawing	and machining	instructions

DEM	O USER	1			Modul	ar V8.20)		Tuesday 1	December	2009
Mac	hining	drawings BASE-	CABINET-B	OTTOM							
8	64 x 6	00 x 20.0									
					2						
	1								2		
								i.			
					0						
								ī	-		
					0						
					0						
Y					5 4			ι_	-		
\uparrow				0	00						
	\rightarrow^{x}										
Mac	hining	drawings									
NO 001	Fn Hbore	Description Dowel Hole	Xstart 0	Ystart =Y-40	Xend/ln	Yend	Dir Dia/rad D 10	Depth 25	Rpt:off 3:=(Y-80	Wid/ang R	Tool
0.02	Repeat	:=(Y-80)/3:3	_v	-V-40			D 10	25	2 (V. 00	Ŧ	
002	Repeat	(Y-80)/3:3	-4	-1-40			D 10	6.5	3(1-80		
003	Saw Ystar	Groove : = Y-18-T (@BAC	0 KMATERIAL	=Y-18-T @)/2 Yei	(=X nd: =Y-18-	=Y-18-T T (@BACKM	(90 MATERIAL@)/2	8 Width: =T	(@BACKMATE	=T(@BACK RIAL@)	
004	Vbore		=X/2+50-	15 TEDIAL(2)	(2) Domos	+/X 0	U 8	8	3:=(Y-80		
005	Vbore	.: =∧/2+50-(T(@	=X/2-25	15	/2) кереа	= (1-8	R 8	8	1:50		



Machining library - full drawing and machining instructions - can include shaped parts

Note - formula are converted to absolute value on optimising.
Machining library - includes templates for defining the layout of several parts - for grain matching or nesting.

DEMO U	USER 1				Modul	ar V8.20			Tuesday 1	L December	2009
Machir	ning d	lrawings BASEU	NIT								
Base ı	unit t	emplate 680	x 665 x	20.0							
				3							
Y		1		4	2						
	x										
Machir	ning d	lrawings	Watara	Webser	T and the	111 4.1	Die Die leist	Denth	D-1-65	121.21.000	ma a l
NO F1 001 Pa	n D art	escription	15	15	317.5	400	0	Depth	kpt:off	wid/ang	1001
002 Pa 003 Pa	art art		347.5 15	15 430	317.5 650	400 220	0				
004 St	trip		10	10	660	410	0				
<u>Machin</u> <u>No</u> Fr 001 Pa 002 Pa 003 Pa 004 St	ning d n D art art art trip	drawings Description	Xstart 15 347.5 15 10	Ystart 15 15 430 10	Length 317.5 317.5 650 660	Width 400 400 220 410	Dir Dia/rad 0 0 0 0	Depth	Rpt:off	Wid/ang	Too

Machining drawings links - drawings can be linked to other drawings so that, for example, instructions for drilling for a hinge can be reused on other drawings.

DEMO USER 1	Modular V8.2	0	Tuesday	1 December	2009
Machining drawings BTH-HIN	IGEHOLE				
Bathroom hinge hole link	30 x 30 x 20.0				
	$\langle \ \rangle$				
	1				
	$\langle \rangle$				
	j -				
	<				
	2				
Y A					
x					
Machining drawings No Fn Description X	Istart Ystart Xend/ln Yend	Dir Dia/rad Depth	n Rpt:off	Wid/ang	Tool
001 Vbore Hole 1 002 Vbore Hole 1	.5 15 .5 3	U 15 8 U 5 8	1:23		

DEMO USER 1	Modular V8.20	Tuesday 1 December 200
Machining centre parameters		
Drawing		
Origin	Bottom left	
Tool path display		
Show width	Yes	
Show direction and path	Yes	
Import - DXF format	Non-layered	
Generation		
Last drawing number	2296	
Use drawing number plus item number	No	
Create machining file for unmachined	l parts No	
Machine before edging	Yes	
Delete old files	No	
Spare		
Show machining on printouts	No	
Show expanded machining	No	
Separate file(s) for back instruction	NO NO	
Separate file(s) for horizontal inst	ructions No	
Nested patterns		
First pass routing		
Max area of part	0 00	
Max area or parc	0.00	
Remaining thickness	0.0	
Tool gettings	0.0	
Final page routing		
Depth offset		
Teel actinga	0.0 Т-2-№-2-М-2	
Ofference	1=2:A=2:w=2	
Depth offeet	0.0	
Depth Offset	0.0	
Tool settings	0 Caganda	
Loading time per board	U Seconds	
rime to take oir each part	U Seconas	
Machining times		
Time to load program and setup for e	each part type 20	
Time to place and remove each piece	10	
Boring times - per hole (Seconds)		
Vertical	2.5	
Horizontal	4.0	
Multi-boring (Vertical)		
Spindles	8	
Grid	32.0	
Diameter	8.0	
Multi-boring (Horizontal)		
Spindles	3	
Grid	32.0	

Machining centre parameters - use these to describe the set up of machining centres

Machining centre transfer parameters	- use these to	describe the	link to each	machining centre.
--------------------------------------	----------------	--------------	--------------	-------------------

DEMO USER 1	Modular V8.20		Tuesday 1 Decembe	r 2009
Machining centre transfer parameters				
No Name Type Path for part drawings Post transfer program Subfolders Path for instructions Back Horizontal Work List (LIS) path Pattern path CSV path Transfer to BHX500 Transfer to ABD Include border on part drawings Nesting machine origin Spare Rules	<pre>: 1. : Weeke : 8 - Weeke Woodwop V4/ : c:\v82\Demo\Mch\ : : N : : c:\v82\Demo\Mch\ : : : N : N : N : N : N : Bottom left : : Instruction : DOWEL : T=1</pre>	VV5 (MPR) Replacement T=7:EM=0 T=101		
No Name Type Path for part drawings Post transfer program Subfolders Path for instructions Back Horizontal Spare Rules	: 2. : 2D-DXF : 0 - 2D DXF Non-layere : c:\v82\Demo\Mch\ : : N : : : Instruction	d (DXF) Replacement		

Drawing and Cad Drawing libraries

These libraries store drawings of Products, Room layouts, fittings (hardware) etc.

Drawing library - thumbnail view of items in library showing various products and fittings.

DEMO USER 1	Modular V8.20	Tuesday 1 December 2009
Drawing library		
BASE-CABINET	BASE-CABINET-ELEV Base cabinet Elevation	BASE-CORNER
BASE-DOUBLE	BASE-DOUBLE-ELEV Base Double Elevation	BASE-DRAWER
		0.00
BASE-DRAWER-ELEV Base Drawer Elevation	BASE-OVEN-HSE	BASE-OVEN-HSE-ELEV Base oven housing elev

Drawing library - full page drawing of a product



Drawing library - full page drawing of a product



Drawing library - drawings of fittings (hardware)







Cad drawing - kitchen layout including products from the Product library

Use the Cad drawing library to specify a room layout and the products it contains - these can be automatically optimised for an estimate or production.



Note - any Cad drawing can be added to a Print layout so that the project and admin data is included. Print layouts are designed in the Drawing library

Drawings can be exported as bitmaps and metafiles. DXF drawings can be imported

System and Tools

There are several facilities to help set up and manage the software.

System parameters - set the basic features, layout and style of the program

Information boxes - create custom data for part lists; select from a wide range of pre-defined information for each part

File management and back- up - administer all part lists, libraries and take snapshots of each user directory

Check - run a check of the program set up and computer

Errors and Help - Each error has a link to Help page describing each error and giving possible fixes. A very comprehensive help system provides context sensitive help, background topics and How To topics,

System parameters

Basic set up for the program; language, measurement mode, paths etc.

DEMO USER 1 M	odular V8.21	Thursday 11	February 2	2010
System parameters				
General				
Language	English (UK)			
Measurement mode	Metric (0.0 - 9999.9 mm)			
Order of dimensions on screens and printouts				
Parts and boards	Length Width			
Products	Width Height Depth			
Modules	PO - Professional optimi	ser		
	NE - Nesting optimiser			
	MI - Part drawings / mac	hining		
	PL - Part library / labe	ls		
	SC - Stock control			
	EL - Edging and laminate	S		
	DS - Destacking			
	PQ - Product library / q	uotes		
a	CA - Cad drawings			
Company name	DEMO USER I			
Style of date	Day/Month/Year			
Paths and files				
Path for data	c:\v821\Demo\User1\			
Path for part lists				
Path for library data	c:\v821\Demo\Libs\			
Path for stock libraries				
Path for import data	c:\v821\Demo\Import\			
Path for export data	c:\v821\Demo\Export\			
Path for accounts	c:\v821\Demo\Libs\			
Path for customer data	c:\v821\Demo\Libs\			
Path for backup	c:\v821\Demo\Backup\			
Backup interval (days)	0			
Spare 1				
Spare 2				
Rules1				
Optimisations				
File names	Use sequential number fo	r name of op	timised ru	un
Last sequential run number	1	-		
Current batch name	BSR CD-81			
Last saw group number	0			
Single strip patterns Select using pictures	Rip first then crosscut			

Information boxes

Custom and pre-defined extra data for part lists

DEMO USER 1		Modular V8.20	Wednesday 2 December 2009
Information boxes			
Description	Length	Туре	
Item number	5	Item number	
Description	25	Description	
Material	25	Material	
Length	9	Length	
Width	9	Width	
Quantity	5	Quantity	
Overs	5	Overs	
Unders	5	Unders	
Quick edging	4	Quick edging	
Grain	1	Grain	
1 Edge Btm	50	Length edge - bottom (G)	
2 Edge Top	50	Length edge - top (H)	
3 Edge Left	50	Width edge left (I)	
4 Edge Right	50	Width edge right (J)	
5 Face Laminate	50	Front laminate (K)	
6 Back Laminate	50	Back laminate (L)	
7 Edge Diagram	15	Edging diagram (P)	
8 Finished size	21	Finished sizes (D)	
9 Drawing name	25	Drawing name transfer (II)	
10 Step angle	6	Step angle	
11 Priority	1	User defined (0)	
12 Mirrored	1	Mirrored	
13 Small part	1	Do not place part on the edge	
14 Alternative material(s)	200	Alternative material(s)	
15 Part graining	11	User defined (0)	
16 Volume	4	User defined (0)	
17 Template - Router	200	Template - Router	
18 Grain matching	200	Grain matching (W)	
19 Part lavout	25	Part layout	
20 Part orientation	1	Part orientation	
21 Dectack type	1	Dectack type	
22 Dectack cype	20	Heer defined (0)	
22 DESCACE SLYTE	20	Not in use	
23	0	Not in use	
24	U	NOL IN USE	

File Management - list of Optimisations (Runs)

Use the File Management and Backup tools to administer all the part lists, libraries and other data from within the program. The program keeps track of temporary and other files created during optimisation and data transfer and provides an easy way of archiving and deleting run data.

DEM	IO USER 1	Ма	odular V8.20	Wedne	esday 2 December 2009
File	management				Optimisations
Trn	File	Parts	Title	Size	Modified
*	00001 00002 00003 00004 00005 00005 00007 00008 00007 00008 00009 000011	Example4 BSR PL-15 BSR CD-81 example1 Example6 Example6-01 Example6-02 Example6-03 Example6-04 Example9	Example 4 Job Ref: Example 45 Kitchen layout Example 1 Kitchen layout Kitchen layout Kitchen layout Kitchen layout Kitchen layout Example	2 KB 5 KB 22 KB 2 KB 2 KB 6 KB 13 KB 5 KB 1 KB 6 KB	26/11/2009 16:07 17/11/2009 10:39 01/12/2009 16:07 26/11/2009 15:29 26/11/2009 14:50 26/11/2009 14:50 26/11/2009 14:50 26/11/2009 14:50 01/12/2009 14:57
* *	00101 00102 00103 00104 00105 00106 00107 00108 00109 00109 00110 00111 00112	BSR PR-20-01 BSR PR-20-02 BSR PR-20-03 BSR PR-30-01 BSR PR-30-02 BSR PR-30-02 BSR PR-31-01 BSR PR-31-01 BSR PR-31-02 BSR PR-31-04 BSR PR-31-04 BSR PR-31-05	Week 22 Week 22 Week 22 BSR PR-30 BSR PR-30 BSR PR-30 BSR PR-31 BSR PR-31 BSR PR-31 BSR PR-31 BSR PR-31 BSR PR-31	4 KB 5 KB 2 KB 1 KB 3 KB 4 KB 2 KB 3 KB 4 KB 2 KB 2 KB 1 KB	12/11/2009 15:18 12/11/2009 15:18 12/11/2009 15:18 12/11/2009 15:18 19/10/2009 08:27 19/10/2009 08:27 19/10/2009 08:27 01/12/2009 14:28 01/12/2009 14:28 01/12/2009 14:28 01/12/2009 14:28
* * *	00113 00114 00115 00116 00117 00118 00119 12005 12006	BSR CD-81-01 BSR CD-81-02 BSR CD-81-03 BSR CD-81-03 BSR NEST-1 BSR NEST-2 BSR R-NEST Run Wk 35-1 Run Wk 35-2	Kitchen layout Kitchen layout Kitchen layout Nesting example 1 Nesting example 2 Rectangular nesting Example 1 Example 2	6 KB 13 KB 5 KB 1 KB 4 KB 3 KB 10 KB 1 KB 1 KB	19/10/2009 08:26 19/10/2009 08:26 19/10/2009 08:26 19/10/2009 08:26 19/10/2009 08:25 01/12/2009 13:42 19/10/2009 13:31 11/08/2009 15:31
*	12007	Run Wk 35-3	Example 3	1 KB	11/08/2009 15:31

File Management - list of Product requirements

DEMO USER 1	Modular V8.20	V	Vednesday 2 December 2009
File management			Product requirements
File	Title	Size	Modified
BSR CD-81 BSR IMP-45 BSR PR-20 BSR PR-30 BSR PR-31 BSR QU-35	Kitchen layout bsr imp-45 Week 22 BSR PR-30 BSR PR-31 BSR QU-35	6 KB 1 KB 2 KB 2 KB 1 KB 2 KB	19/11/2009 15:16 01/09/2009 14:56 04/09/2008 08:50 04/09/2008 08:49 04/09/2008 08:49 19/11/2009 14:47

Fig. 121

File management - list of optimising parameter files

DEMO USER 1	Modular V8.20	١	Wednesday 2 December	2009
File management			Optimising param	neters
File	Description	Size	Modified	
DEFAULT DESTACK DUPLICATES LITE M-CENTRE MULTI-AXIS RCTYPE4	Standard Optimiser Destacking Optimiser Stacked duplicate parts Lite Optimiser Machine centre Angular Optimiser Unrestricted Recuts	1 KB 1 KB 1 KB 1 KB 1 KB 1 KB 1 KB	21/04/2006 07:51 21/04/2006 07:50 21/01/2009 12:10 21/04/2006 07:50 15/06/2007 10:11 16/01/2008 14:24 21/04/2006 07:50	

File management - list of libraries

DEMO USER 1	Modular V8.20		Wednesday 2 December 2	009
File management			Libra	ries
File	Description	Size	Modified	
Beech	Answer table	1 KB	05/09/2008 14:20	
catalog	Catalogue	50 KB	26/04/2006 09:49	
csdb	Customer database	108 KB	24/04/2006 08:51	
cuttinglistrules	Cutting list rules	1 KB	22/08/2009 07:09	
Ebony	Answer table	1 KB	20/04/2006 13:54	
lookupv8	Look-up table	1 KB	02/05/2006 14:47	
mallocv8	Allocations	11 KB	01/12/2009 16:21	
mdstakv8	Destacking library	11 KB	01/12/2009 16:07	
medgev8	Edging library	84 KB	20/12/2006 11:27	
mformv8	Formulae table	2 KB	08/09/2008 11:15	
mgridtabv8	User defined tables	2 KB	08/09/2008 11:26	
mmatv8	Board library	252 KB	26/11/2009 15:52	
mmchv8	Machining library	111 KB	01/12/2009 16:56	
morderv8	Orders	11 KB	01/12/2009 16:28	
mpartv8	Part library	31 KB	01/12/2009 16:07	
mpatrnv8	Pattern library	21 KB	26/11/2009 16:07	
mprodv8	Product library	31 KB	02/12/2009 11:35	
mpsketv8	Drawing library	351 KB	02/12/2009 11:35	
mvarv8	Variables table	1 KB	08/09/2008 09:22	
Oak	Answer table	1 KB	05/09/2008 14:20	
phrases	Phrase table	130 KB	26/04/2006 09:53	
ptdefv8	Information boxes	6 KB	01/12/2009 14:45	
Teak	Answer table	1 KB	20/04/2006 13:54	
Wall-oak-glass	Answer table	1 KB	20/04/2006 13:42	

Check System

Check PC, memory, program installation etc.

DEMO USER 1		System Check V8.21	Thursday 11 Feb 2010
SYSTEM CHECK V	78.21.0		
Version: V8.21	.0 (26 Feb 2010) Program D	irectory: C:\v821\	
Programs: X	Language: 00-English (UK)	ok Help: ok	
Key:	SN00081014* ok (8 6) Master V8.20 11/02/2010 - 13/10/2010 (0 QFP-26T-KLC-IZY)	
System:	Windows: XP Professional S Processor: Intel(R) Pentiu (~2276MHz) CPU Serial: 2	ervice Pack 2 (Build 2600) ok m(R) 4 CPU 2.40GHz (2386MHz) ok Benchmark: 0.063s Parallel: 1 ok	
Components:	MDAC: v2.81 ok		
Memory (Mb):	Physical Total: 512 ok Virtual Total: 1760	Free: 304 ok Free: 1077 ok	
Disk (Mb):	C: 7869(38121) ok K:1856375(2146205) ok	D: 0 (0) X N:1856375(2146205) ok	

Error reports

Error reports are available throughout the program. The error number pinpoints the exact error that has occurred.

DEMO USER 1	Modular V8.20	Wednesday 2 December 2009
Error		
Message		Description
Data not correct - no boards [38001] Data not correct - no boards [38001] Data not correct - no boards [38001]		HARDBOARD-4M MED-DEN-FIBRE-18M MFC18-OA

Fig. 125

DEMO USER 1		Modular V8.20	Wednesday 2 December 2009
Error			
Message			Description
Part position not co Border 1 Parts	orrect [33120]		
Part position not co Border 2 Part	N-SHELF-CUTOUT		
Part position not co Border 3 Parts	F-UNIT-END-LEFT		
Part position not co Border 14 Part	prrect [33120] :: N-SHELF-CUTOUT		
Part position not co Border 15 Part	prrect [33120] :: F-UNIT-END-LEFT		
Part position not co Border 16 Part	prrect [33120] :: F-UNIT-END-LEFT		
Part position not co Border 17 Part	prrect [33120] :: F-UNIT-END-LEFT		
Part position not co Border 18 Part	prrect [33120] :: F-UNIT-END-LEFT		
Part position not co Border 19 Part	prrect [33120] :: F-UNIT-END-LEFT		
Part position not co Border 20 Part	prrect [33120] :: F-UNIT-END-LEFT		
Part position not co Border 21 Part	prrect [33120] :: F-UNIT-END-LEFT		
Part position not co Border 22 Part	prrect [33120] :: F-UNIT-END-LEFT		

Help

A wide variety of help topics are available. Help can be viewed on-screen or printed.

Overview and How To topics

Board library - Overview	Page 1 of 3
Board library - Overview	
Materials, board sizes, and board quantities in stock	
The Board library stores information about Boards in the following structured way	
MATERIALS BOARDS (Board sizes) TRANSACTIONS (<i>Stock module only</i>)	
Boards are divided into different types of material, for example, CHIPBOARD-15MM or FIBREE so on. Within each material type several different sizes may be available, for example:-	3OARD-18MM and
CHIPBOARD-15MM <u>Code Length Width Quantity</u> BOARD1 3660.0 x 1220.0 322 BOARD2 2440.0 x 1220.0 240 The program relies on the Board library to select the correct board sizes for each part when optimizing	timising so the
The demonstration data contains an example Board library	
At the main screen:-	
• Select: Libraries - Board library or Select the ToolBar option The screen shows the list of materials in the library.	

Help - in-context topics

Saw kerf	Page 1 of 1
Saw kerf	
Optimising parameter to set width of saw kerf	
the the test of te	
This is the material lost due to the saw blade when cutting. Use the value recommended by the saw manufacturer. Typical values for woodworking are: 4.8mm, 3/16in etc.	
For tight cutting or for materials such as glass or metal the saw kerf is not significant and can be set necessary.	to zero if
On diagrams the saw kerf is usually shown as a single line (and is not to scale). To show the saw ke use the System parameter: <i>Patterns - labelling style, show saw kerf to scal</i> e (for example where usir large saw kerf).	rf to scale ig a very
See also	

Fig. 127

Note - most topics include a See also button showing items related to the current topic

Help - advice on specific errors

Part position not correct	Page 1 of 1
Part position not correct	
May occur when editing nested patterns	
When editing parts in a nested pattern the part can be positioned anywhere on the board, however, part position looks Ok in the editor it may not be correct when the board is machined. For example,	er, whilst the e:-
 part border may go over the edge of the board part border may go over the edge of another part border part border may be too close to another part border 	
Some of these problems can be caused by the safety border area which is not shown in the editor	r
An error is shown for each part that is not in a correct position	
Part position not correct Border 3 Part F-UNIT-END-LEFT	
The 'Border 3' value indicates this is third item added to the pattern. The Part value is the name of the part.	
There may be multiple occurrences of the same part on a pattern but the border value is unique.	
During editing the current border value is shown to the left of the nested pattern drawing next to t heading.	he function
The pattern can be edited by pressing the edit button. This closes the dialog and the first invalid automatically selected. If the Continue button is pressed the changes are be saved and the patter corrected later.	border is ern can be
33120	

Fig. 128

Note - the error number is shown in the box at the foot of the help page.

Inches data

The program can work in millimetres, decimal inches or fractional inches and this applies across all modules.

Decimal inches are inches expressed as a decimal e.g. 2.25in, 1.125in. Fractional inches are inches expressed as a fraction. e.g. 2-1/4in, 1-1/8in.

The program operates in the same way for each measurement mode but there are some minor format changes to screens and reports to allow for the different number formats.

Some examples of saw optimising reports in fractional inch mode are shown in this section.

Inches - Part list

USER	4	Modula	Modular V8.20						
Part	list							Ex	ample 1
Ref	Example1				Opt	Defau	ult S	aw	Default
No	Description	Material	Length	Width	Qty	Over	Under	Gr	Edge
1.	BU05-HK-BACK	HARDBOARD-1/8"	19	20	20	0	0	N	0000
2.	BU05-MB-BASE	MDF-5/8"	19-1/2	24-3/8	32	0	0	Ν	0000
з.	BUO5-ME/LEFT	MDF-5/8"	23-1/4	34-1/4	42	0	0	Ν	0000
4.	BU05-ME/RIGHT	MDF-5/8"	23-1/4	34-1/4	42	0	0	N	0000
5.	BU05MP-PLINTH	MDF-5/8"	29	6-3/8	20	0	0	Ν	0000
6.	BU05MP-RAIL	MDF-5/8"	21	12-3/4	32	0	0	N	0000
7.	BU05MB-SHELF	MDF-5/8"	19	16-1/2	28	0	0	Ν	0000
8.	BU05W-DR1	OAK-LAM-1/32"	19-1/2	16-1/2	35	0	0	Ν	0000
9.	BU05W-DRW	OAK-LAM-1/32"	18-3/4	12-1/4	32	0	0	Ν	0000
10.	HU05-BACK	HARDBOARD-1/8"	32	24	40	0	0	Ν	0000
11.	HU05/2-BACK	HARDBOARD-1/8"	28	22	32	0	0	Ν	0000
12.	HU06MB-BASE	MDF-5/8"	42	32	28	0	0	Ν	0000
13.	HU06MP-PLINTH	MDF-5/8"	23-5/16	7-1/2	40	0	0	Ν	0000
14.	PLINTH/01	MDF-5/8"	36-1/4	7-1/2	25	0	0	Ν	0000
15.	SPC/TR-BACK	HARDBOARD-1/8"	34-1/2	19-1/2	32	0	0	Ν	0000

Inches - Management Summary

USER4				Mo	odular V8.	20		Wednesday 2 December 2009		
Management	summa	ıry							Example 1	
							00001/Exampl	le1/Example	1/Default/Default/8	
Description	Quantity	ft2	ft3	Percent	Rate	Cost	Statistic	Value		
Required parts	480	1755.12	62.00	89.86%			Number of patterns	19		
Plus/Over parts	0	0.00	0.00	0.00%			Headcut patterns	10		
Offcuts	24	62.43	0.82	3.20%			Rotated patterns	0		
Scrap		135.64	4.06	6.94%			Recut patterns	9		
Core trim		0.00	0.00	0.00%			Number of cycles	19		
Boards	58	1953.19	66.88	100.00%			Cutting length	2716.630		
							Throughput (Ft3/Hr)	0.0		
							Waste (%Parts)	11.29%		
							Waste (%Boards)	10.14%		
Sheets used		1953.19	66.88	100.00%		653.11				
Offcuts used		0.00	0.00	0.00%		0.00				
Offcuts created		-62.43	-0.82	-3.20%	0.000	-0.00				
Net material used	-	1890.76	66.06	96.80%		653.11	-			
Cutting time	0:00Hr				32.120	0.00				
Total parts	480	1755.12	62.00	89.86%	0.372	653.11				

Inches - Part summary

USER4	Ļ				Modu	ular V8.2	0			Wednesday	2 December 20	109
Part	summary										Example	: 1
								C	0001/Exa	mple1/Example	1/Default/Defaul	lt/8
No	Part /	Length	Width	Total	From	Over	Total	ft2 /	Total	Material cost	Material cost	G
	Description	Frac	Frac	Req	Stock	Under	Prod	Part	ft2	/Part	Total	
HARD	BOARD-1/8" Hardb	oard - gra	de 1 Thickr	iess 0-	1/8 Boo	k 20						
1.	BU05-HK-BACK	19	20	20	0		20	2.639	52.78	0.81	16.27	Ν
10.	HU05-BACK	32	24	40	0		40	5.333	213.33	1.64	65.75	N
11.	HU05/2-BACK	28	22	32	0		32	4.278	136.89	1.32	42.19	Ν
15.	SPC/TR-BACK	34-1/2	19-1/2	32	0		32	4.672	149.50	1.44	46.08	Ν
				124			124	-	552.50		170.28	-
MDF-	5/8" MDF Thickness	0-5/8 Bc	ook 10									
2.	BU05-MB-BASE	19-1/2	24-3/8	32	0		32	3.301	105.63	1.20	38.28	Ν
3.	BUO5-ME/LEFT	23-1/4	34-1/4	42	0		42	5.530	232.26	2.00	84.17	N
4.	BU05-ME/RIGHT	23-1/4	34-1/4	42	0		42	5.530	232.26	2.00	84.17	Ν
5.	BU05MP-PLINTH	29	6-3/8	20	0		20	1.284	25.68	0.47	9.31	Ν
6.	BU05MP-RAIL	21	12-3/4	32	0		32	1.859	59.50	0.67	21.56	Ν
7.	BU05MB-SHELF	19	16-1/2	28	0		28	2.177	60.96	0.79	22.09	Ν
12.	HU06MB-BASE	42	32	28	0		28	9.333	261.33	3.38	94.71	Ν
13.	HU06MP-PLINTH	23-5/16	7-1/2	40	0		40	1.214	48.57	0.44	17.60	Ν
14.	PLINTH/01	36-1/4	7-1/2	25	0		25	1.888	47.20	0.68	17.11	Ν
				289			289	-	1073.38	•	388.99	-
OAK-	_AM-1/32" Oak lami	nate Thick	ness 0-1/3	32 Book	20							
8.	BU05W-DR1	19-1/2	16-1/2	35	0		35	2.234	78.20	1.62	56.81	N
9.	BU05W-DRW	18-3/4	12-1/4	32	0		32	1.595	51.04	1.16	37.08	Ν
				67			67	-	129.25		93.89	-
Total				480			480		1755.12		653.16	

Inches - Board summary

USER4	USER4 Modular V8.20 Wednesday 2 December 20										mber 2009	
Boar	d sum	mary									Exa	ample 1
								000)01/Exa	mple1/E	kample1/Defau	lt/Default/8
No	Board	Length	Width	Information	Qty in	Qty	Length	Area	Cost	Total	Parameters	Cost /
		Frac	Frac		Stock	Used	ft	ft2	ft2	Cost		Board
HARD	BOARD-1	/8" Hardboa	ard - grade	1 Thickness (0-1/8 Bo	ok 20						
1.	HBD-01	79	40		450	14		307.22	0.240	73.73		5.267
2.	HBD-02	96-1/2	48-1/2		320	11		357.52	0.270	96.53		8.775
						25	-	664.74	-	170.26		
MDF-	5/8" MDF "	Thickness	0-5/8 Book	10								
3.	MDF-01	120	48		656	27		1080.00	0.340	367.20		13.600
4.	MDF-02	96	48		456	2		64.00	0.340	21.76		10.880
						29	-	1144.00	-	388.96		
OAK-L	_AM-1/32"	Oak lamina	te Thickne	ss 0-1/32 Boo	ok 20							
5.	OAK-01	100	52		56	4		144.44	0.650	93.89		23.472
						4	-	144.44	-	93.89		
Total						58		1953.19		653.11		

Inches - Pattern preview

USER4	Modular V8.20	Wednesday 2 December 2009
Pattern preview		Example 1
	0	0001/Example1/Example1/Default/Default/8
Ptn:1 Board:1.HBD-01 Size:79 x 40 Qty:6 Material:HARDBOARD-1/8''	Ptn:2 Board:1.HBD-01 Size:79 x 40 Qty:5 Material:HARDBOARD-1/8"	Ptn:3 Board:1.HBD-01 Size:79 x 40 Qty:2 Material:HARDBOARD-1/8"
HU05-BACK! HU05-BACK! 32 X 24 32 X 24 32 X 24 YPX 72X 24	1 1 SPC/TR-BACK 19 X 20 19 X 20 34-1/2 X 19-1/2 1! 1! SPC/TR-BACK 19 X 20 19 X 20 34-1/2 X 19-1/2	SPC/TR-BACK SPC/TR-BACK 34-1/2 X 19-1/2 34-1/2 X 19-1/2 SPC/TR-BACK SPC/TR-BACK 34-1/2 X 19-1/2 34-1/2 X 19-1/2 34-1/2 X 19-1/2
Ptn:4 Board:1.HBD-01 Size:79 x 40 Qty:1 Material:HARDBOARD-1/8" SPC/TR-BACK 34-1/2 X 19-1/2 SPC/TR-BACK 34-1/2 X 19-1/2 34-1/2 X 19-1/2	Ptn:5 Board:2.HBD-02 Qty:10 Material:HARDBOARD-1/8" HU05-BACK 11 32 X 24 32 X 24 28 X 22 SPC/TR-BACK 11 28 X 22 28 X 22 L1 28 X 22	Ptn:6 Board:2.HBD-02 Qty:1 Material:HARDBOARD-1/8" HU05-BACK 32 X 24 32 X 24 SFC/TR-BACK 28 X 22 HINTENSING CONTENSION
Ptn:7 Board:3.MDF-01 Size:120 x 48 Cty:8 Material:MDF-5/8" Cycles:1 HU06MB-BASE 41 42 x 32 42 x 32 PLINTH/01 13 12 PLINTH/01 13 13	Ptn:8 Board:3.MDF-01 Size:120 x 48 Qty:7 Material:MDF-5/8" Cycles:1 7! 31 31 31 7! 31 31 31 7! 31 31 31	Ptn:9 Board:3.MDF-01 Size:120 x 48 Qty:5 Material:MDF-5/8" Cycles:1

Inches - Pattern

USER4			Мо	dular V8.	20		Wednesday 2	December 2009		
Patte	rn 9 of 19									Example 1
								0	0001/Example1/Example1/E	efault/Default/8
Board: I Materia	MDF-01 II: MDF-5/8" MDF	:			Was	te: 7.09%			Size: 12	0 x 48 x 0-5/8 Boards: 5
0.0	(22)		8	4-7/8						-
	3	HU06MB-BAS 42 X 32	E			HU06MB-B 42 X 3	ASE 2	-	BU05-ME/RIGHT! 23-1/4 X 34-1/4	23/32
12-	32 BU05MP-R/ 21 X 12-3	AIL BU 3/4 21	05MP-RAIL X 12-3/4	BU 21	105MP-F . X 12-	AIL 3/4	BU05MP-RA 21 X 12-3	AIL 8/4	BU05-ME/RIGHT! 23-1/4 X 34-1/4	
Saw ke Rear rip	2-11/16 orf: 5/32 Book heig trim with kerf - R	ght 5 Cycle Rip: 1/4 Cro	es 1 ss: 0 Retrin	n with k	erf: 1/4			1	5/16	z i
No	Part Description	Length Frac	Width Frac	Total Prod	Cut	Per brd	Per ptn	Το сι	ıt	
4.	BU05-ME/RIGHT	23-1/4	34-1/4	42	16	2	10	1	6	
6. 12	BU05MP-RAIL	21 42	12-3/4 32	32 28	NIL 16	4	20 10	1	2	
12.	HUUOINID-DAGE	42	52	20	10	2	10		2	

Inches - Pattern

JSER4					Мс	dular V8.2	20		Wedn	esday 2 December 200
Patterr	n 15 of 19									Example
								0000)1/Example1/Ex	ample1/Default/Default/
Board: Mi Material:	DF-02 MDF-5/8" MDF				Wa	ste: 7.76%				Size: 96 x 48 x 0-5/ Boards:
0-3/3	2					96				
,.	6! 21 X 12-3/4	6! 21 X 12-	3/4	BU0 23-1	5-ME/1 ./4 X	RIGHT! 34-1/4		B 23	U05-ME/RIGHT! -1/4 X 34-1/4	1-3/8
23-1/	4 BU05MB-SH 19 X 16-	IELF 1/2	BU05MB-S 19 X 16	HELF -1/2	BU0 19	5MB-SHELF X 16-1/2	B	J05MB-SHE 9 X 16-1/	LF BU05ME '2 19 X	3-SHELF 16-1/2
16-1/	2 BU051	MP-PLINTH X 6-3/8		BU	105MP- 29 X 6	PLINTH		BU05M 29 1	P-PLINTH K 6-3/8	8-17/32 x 8-17/32 8-17/32
Saw kerf: Rear rip t No P a	³ 1-5/32 5/32 Book heig rim with kerf - Ri	ht 1 Cycle p: 1/4 Cro Length	es 1 ss: 0 Retri Width	m with ke	erf: 1/4 Cut	Per brd	Per ptn	To cut		
4. Bl	J05-ME/RIGHT	23-1/4	34-1/4	42	40	2	2	NIL		
5. BI	J05MP-PLINTH	29	6-3/8	20	8	3	3	9		
6. BI	J05MP-RAIL	21	12-3/4	32	29	2	2	1		
				-						

Inches - Pattern

USER4	Modular V8.20	Wednesday 2 December 2009					
Pattern preview		Example					
BEECH	C	0002/Example3/Example3/Default/Default/8					
Ptn:1 Board:1.BEECH-03 Qty:11 Material:BEECH Cycles:1	Ptn:2 Board:1.BEECH-03 Qty:8 Material:BEECH Cycles:1	Ptn:3 Board:1.BEECH-03 Qty:7 Material:BEECH Cycles:1					
II HU05-BACK HU05-BACK 28 X 22 32 X 24 32 X 24	HU06MB-BASE 15! 12! 34-1/2	21 81 1 41 23-1/4 X 34-1/4 34-1/4					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	42 X 32 42 X 32 PLINTH/01	SPC/TR-BACK 21 41 23-1/4 X					
34-1/4 34-1/4	PLINTH/01	PLINTH/01 13 34-1/4					
Ptn:4 Board:1.BEECH-03 Qty:6 Material:BEECH Cycles:1	Ptn:5 Board:1.BEECH-03 Qty:5 Material:BEECH Cycles:1	Qty:4 Material:BEECH Cycles:1					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	31 23-1/4 X 11 HU05-BACK 34-1/4 28 X 22 32 X 24 7 7 7 7 5 5 5	HU05-BACK 32 X 24 41 23 - 1/4 X 34 - 1/4 121 28 X 22 11 28 X 22 28 X 22 11 28 X 22 28 X 28 X 28 28 X 28 X 28 X 28 28 X 28 X 28 X 28 28 X 28 X					

Fig. 135-01

Inches - Board library

USER4	Modular V8.20	Modular V8.20						
Board library								
Material	Description	Thickness	Grain	Book	Picture			
EBONY-LAM-1/32	Ebony Laminate	0-1/32	Y	20				
FIBREBRD/01	MDF - grade 2	1	N	12				
HARDBOARD-1/8"	Hardboard - grade 1	0-1/8	N	20				
ADF-5/8"	MDF	0-5/8	N	10				
AFC-5/8"	Melamine - 5/8	0-5/8	N	10				
DAK-LAM-1/32"	Oak laminate	0-1/32	Y	20				
RTCLBRD-3/4	Particle board	0-3/4	N	12	NAMES OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO			
PRTCLBRD-5/8	Particle board	0-5/8	N	20				
EAK-LAM	Teak laminate	0-1/32	Y	20				
VHITE-LAM-1/32	Pearl laminate	0-1/32	N	20				

USER4	Modular V8.20									Wednesday 2 December 2009					
Board library															
Board code	Length	Width	Information	Stock	Alloc	Order	Cost	Limit	Bin Supp	li Min	ReOr	Grain	Material parame	Method	Туре
HARDBOARD-1/8" Hardboard -	arade 1 Thicknes	: 0-1/8 Bool	k-20												
HBD-01	70	40	N.20	436	0	0	0.120	0		(100	N		Area	Board
HBD-02	96.1/2	48-1/2		309	ŏ	ň	0.160	ň		Č	100	N		Area	Board
X00001/0001	48-1/2	31-15/16		1	ň	ň	0.135	ň		Č	100	N		Area	Offcut
X00001/0002	79	7-19/32		6	ň	ő	0.120	ő		č		N		Area	Offcut
X00001/0003	40	9-11/16		ž	ŏ	ŏ	0.120	ň		č		N		Area	Offcut
X00001/0004	22-1/2	11-19/32		1	ő	ŏ	0.120	ŏ		č		N		Area	Offcut
X00001/0005	32	6-17/32		6	ŏ	ŏ	0.120	õ		č		N		Area	Offcut
MDF-5/8" MDF Thickness:0-5/8	Book:10														
MDF-01	120	48		629	0	0	0.210	0		(N		Area	Board
MDF-02	96	48		454	0	0	0.190	0		C		N		Area	Board
X00001/0006	19-1/2	8-27/32		1	0	0	0.170	0		0		N		Area	Offcut
X00001/0007	21	6-11/32		1	0	0	0.170	0		0		N		Area	Offcut
X00001/0008	15-1/32	7-1/2		1	0	0	0.170	0		0		N		Area	Offcut
X00001/0009	11-11/32	7-3/4		1	0	0	0.170	0		0		N		Area	Offcut
X00001/0010	11-19/32	7-1/2		2	0	0	0.170	0		0		N		Area	Offcut
X00001/0011	8-17/32	6-3/8		1	0	0	0.170	0		c		N		Area	Offcut
MFC-5/8" Melamine - 5/8 Thickn	ess:0-5/8 Book:1)													
MFC-01	96	48		329	0	0	0.220	0		0		N		Area	Board
MFC-02	120	48		542	0	0	0.240	0		c		N		Area	Board
OAK-LAM-1/32" Oak laminate T	hickness:0-1/32 B	ook:20													
OAK-01	100	52		52	0	0	0.290	0		(Y		Area	Board

Inches - Optimising parameters

Parameter values can be entered in decimal or fractional inches depending on the measurement mode set.

USER4 Modular V	8.20	Wednesday 2	December	2009
Optimising parameters - Default Default				
Trims				
Optimiser type	Automatic selection			
Cutting				
Saw kerf	0-5/32			
Minimum rip trim with kert	/ .			
Front	0-1/4			
Rear	0~1/4			
Minimum crosscut trim with Keri	0.1/1			
Pront	0-1/4			
Acception with and anotaceut tring	0			
Override rip trim	No			
Override greaceut trim	NO			
Petrim after head out with kerf	NO 0-1/4			
Rectrim arter head cut with Kerr	0-1/4			
Limits				
Max unique parts per strip				
Quantity in main	20			
Quantity in head	5			
Max unique strips per pattern	-			
Ouantity in main	20			
Ouantity in head	5			
Max unique parts per pattern	50			
Open parts				
Max open parts	Unlimited			
Extra open parts for single cycle patterns	0			
Override board loading sequence	No			
Max different boards	0			
Rules				
Recut	Multiple - equal			
Head cuts				
Quantity	2			
Allow in rotated patterns	Yes			
Allow rotated parts	Yes			
Duplicate parts				
Show in single pattern	No			
Board orientation	Lengthways			
Box for priority	None			