

MBA Series 3 Mfg Job Shop

- Complete integration to AR/GL/AP, etc.
- Discrete versus Job Shop/Repetitive
- Niche Concept
- Full Security
- Eliminating need for Modifications
- Leverage with other users

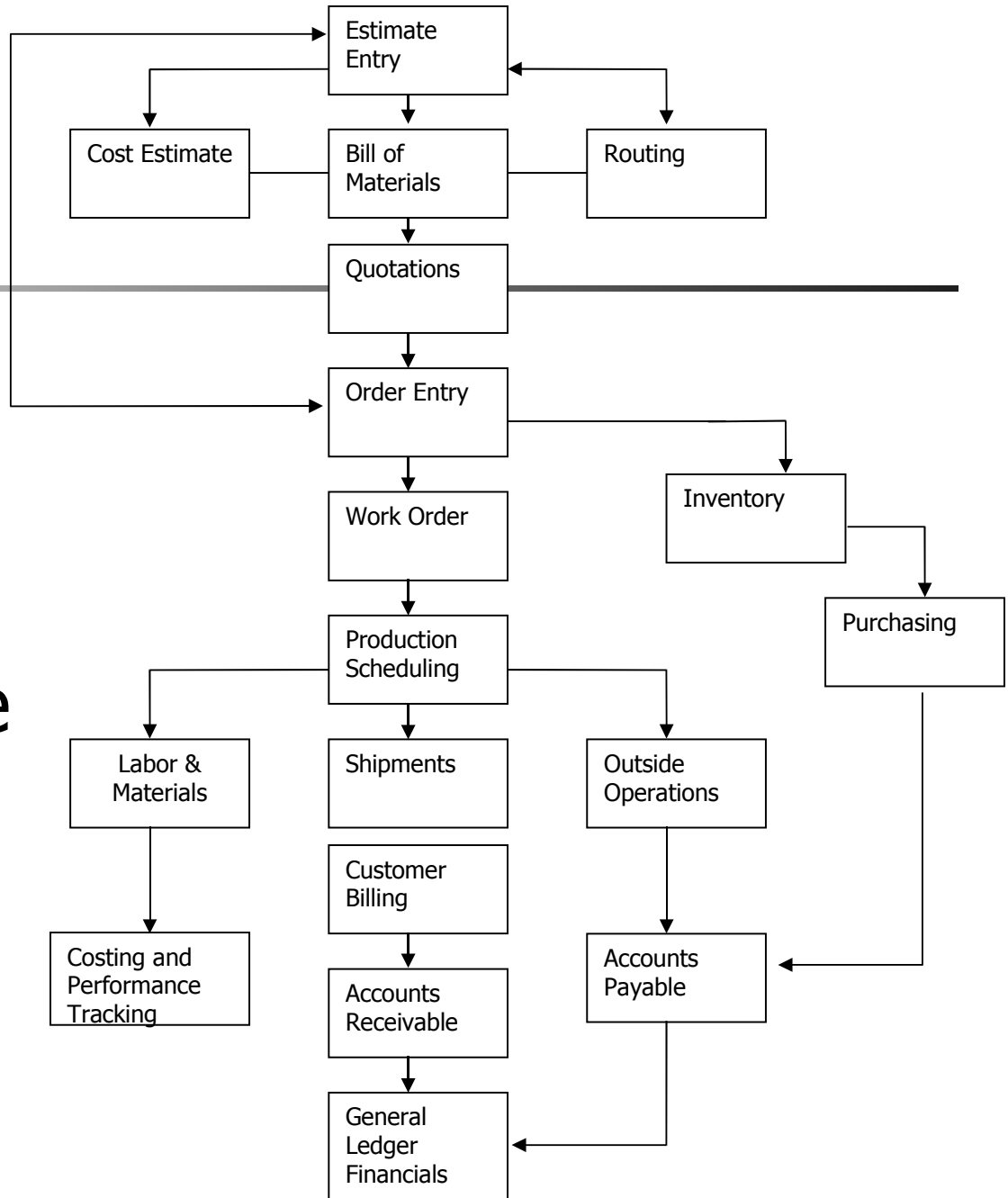


Introduction - Services

- 800 Hot Line
- On-Line Training/Consulting
- Technical Support
- Programming Services
- Remote Access
- Turn-Key Solution

Flow Chart

- Simplified Data Flow
- Visual Planning
- Interchangeable Routings, Estimates & Work Orders



Estimating Part Info

The screenshot shows the 'Estimating' software window. At the top is a menu bar with 'Estimating', 'Functions', 'Reports', 'Window', and 'Help'. Below the menu is a toolbar with icons for New, Save, Cancel, Delete, Sort On, Show All, Query, and Step. A 'Generate Estimate' dialog box is open, displaying a table of estimates. The table has columns for Estimate #, PART_ID, Revision #, Description, Revision Date, and Drawn. The first row is highlighted in yellow. Below the table is a form for editing estimate details. The form includes fields for Estimate # (20), Part # (1410), Revision # (B), Description (Swinging Agnle Bracket Pipe), Revision Date, Drawing # (1750-A), Estimated By (RAH), and Estimate Date (Jul-12-2001). There are also buttons for 'check existing' and a dropdown for 'Routing ID, Part Rev, Routing Version'.

Estimate #	PART_ID	Revision #	Description	Revision Date	Drawn
20	1410	B	Swinging Agnle Brack	11/13/2001	1750+
21	1870	A	4" Saddle Washer 15	11/13/2001	1100+
22	1860	C	4" Saddle Washer 13	11/13/2001	1100+
23	1400	A	Swinging Angle Brack	11/29/2001	ILPC C
24	1710	A	3-Hole Tapped Plate	12/11/2001	1300+
25	1900	A	8-1/2" Spacer for 3-5/	2/8/2002	REA S

Estimate # : 20 A.N.
Part # (Revision) : 1410
Revision #: B check existing
Description: Swinging Agnle Bracket Pipe
Revision Date:
Drawing #: 1750-A
Estimated By: RAH Estimate Date: Jul-12-2001

Routings can be copied to estimates and then changed to create new Routing, Estimate or Work Order...

...or copy this Estimate from an existing Estimate.

Attach a drawing for reference and viewing.

Track multiple Estimate Revisions

Estimating Customer Info

Estimates can be tracked by Customer or Prospect.

System automatically notifies Estimator at later time when he needs to respond.

The screenshot shows the 'Estimating' software interface. The main window is titled 'Estimating' and has a menu bar with 'Estimating', 'Functions', 'Reports', 'Window', and 'Help'. Below the menu bar is a toolbar with icons for 'New', 'Save', 'Cancel', 'Delete', 'SortOn', 'ShowAll', 'Query', and 'Step'. The 'Generate Estimate' window is open, displaying a table of estimates. The table has columns for Estimate #, PART ID, Revision #, Description, Revision Date, and Drawin. The first row is highlighted in yellow.

Estimate #	PART ID	Revision #	Description	Revision Date	Drawin
20	1410	B	Swinging Angle Brack		1750+
21	1870	A	4" Saddle Washer 15	11/13/2001	1100+
22	1860	C	4" Saddle Washer 13	11/13/2001	1100+
23	1400	A	Swinging Angle Brack	11/29/2001	ILPC C
24	1710	A	3-Hole Tapped Plate	12/11/2001	1300+
25	1900	A	8-1/2" Spacer for 3-5	2/8/2002	REA S

Below the table is a form for customer information. The 'Customer' tab is selected. The form includes fields for 'Customer type' (radio buttons for Customer, Prospect, New customer), 'Customer #' (a dropdown menu showing '200 Hughes Brothers, Inc.'), 'Customer Inq #' (a text field with '76594'), 'Date Received' (a date picker showing 'Jul-11-2001'), 'Date to Respond' (a date picker showing 'Jul-13-2001'), 'Follow-up Date' (a date picker showing 'Aug-17-2001'), and 'SalesRep #' (a dropdown menu showing 'KSH Katie Shelly Hiles').

Estimating Pricing Info

Select different combinations of Quantity and Markups.

Mark the target price a customer has given.

Define the parts per cycle being used.

Estimate Unit defines qty level.

The screenshot shows the 'Estimating' software interface. The main window is titled 'Estimating' and has a menu bar with 'Estimating', 'Functions', 'Reports', 'Window', and 'Help'. Below the menu bar is a toolbar with icons for 'New', 'Save', 'Cancel', 'Delete', 'SortOn', 'ShowAll', 'Query', and 'Step'. The 'Generate Estimate' window is open, displaying a table of parts. The table has columns: Estimate #, PART_ID, Revision #, Description, Revision Date, and Drawn. The data is as follows:

Estimate #	PART_ID	Revision #	Description	Revision Date	Drawn
20	1410	B	Swinging Angle Brack		1750x
21	1870	A	4" Saddle Washer 15	11/13/2001	1100x
22	1860	C	4" Saddle Washer 13	11/13/2001	1100x
23	1400	A	Swinging Angle Brack	11/29/2001	ILPC C
24	1710	A	3-Hole Tapped Plate	12/11/2001	1300x
25	1900	A	8-1/2" Spacer for 3-5/	2/8/2002	REA S

Below the table, there is a section for 'Part', 'Customer', 'Quantity', and 'Note'. The 'Quantity' section is expanded, showing a list of quantities (1, 2, 3, 4, 5, 6, 7) and their corresponding 'Quantity' values (25, 50, 100, 0, 0, 0, 0). The 'Markup Code' is set to 'NMU' for all quantities. The 'Reg. Price' column is empty. The 'Part/cycle' is set to 1, and the 'Estimate Unit' is set to 1 (piece(s) of part). The status bar at the bottom shows the date '3/25/2002' and the time '11:45 AM'.

Estimating Material Step

All steps in a Estimate appear in the grid.

By selecting a step type in the estimate grid, the corresponding form appears, in this case a Material step.

Choose the Item Source type to get correct cost source.

Define specific fixed costs for this estimate step.

Review and/or modify specific material step detail.

The screenshot shows the 'Estimating' software interface. The 'Step Definition' window is open, displaying a table of steps. Step 100 is selected, and the 'Material Step' form is visible below the table. The form includes fields for Step Num, Operation Code, Item source, Item #, Engineering Cost, Miscellaneous Cost, and Unit of Measure. The 'Material Step' form is also visible, showing fields for Step Num, Operation Code, Item source, Item #, Engineering Cost, Miscellaneous Cost, and Unit of Measure.

Step	Type	Operation Code	Description
100	M	Matl	Material Issue
200	P	Saw	Sawing Blanks

Material Step

Step Num: 100 Operation Code: Matl Material Issue

Item source: ☐ from material spec master ☒ from Item master ☐ from low-level estimate

Minimal Charge(\$): 0.00

Item #: 1060 [0] 1-1/2"OD X 1"ID Round Tubing

Engineering Cost(\$): 0.00 % to One Time Charge: 0.00

Miscellaneous Cost(\$): 0.00 % to One Time Charge: 0.00

Detail

Unit of Measure: Foot Cost (\$/Unit): 2.50 # units/Part: 1.5

Estimating Primary/Secondary Step

At any point we can see a specific steps detail or total cost makeup.

Now we are viewing a Primary or Secondary step.

There are many associated costs we can define with a Primary or Secondary step.

Select pre-defined standard speed for this step.

Define step Scrap% to get correct starting quantity.

The screenshot shows the 'Estimating' software interface. The 'Step Definition' window is open, displaying details for a Primary/Secondary step. The step is numbered 200, with a description of 'Sawing Blanks'. The operation code is 'Saw', and the workcenter is 'HBS'. The step is associated with a 'Horizontal Band Saw' tool. The 'Scrap%' is set to 0. The 'Speed type' is 'Cycles per hour', and the 'Standard speed' is 20. The 'Setup Hours' are 2, and the 'Setup\$/HR' is 40.00. The 'Operation Count' is 1. The 'Run\$/HR' is 35.00, and the 'Run Oper Factor' is 0.5. The 'Fixed burden' is 10.00, and the 'Variable burden' is 10.00. The 'Effective%' is 100. The 'Cycles B4 Resetup' is 0. The 'Matrix Speed Mat ID' is empty. The 'Detail' section shows the 'Burden type' as '\$' and the 'Speed type' as 'Cycles per hour'. The 'Setup Hours' are 2, and the 'Setup\$/HR' is 40.00. The 'Operation Count' is 1. The 'Run\$/HR' is 35.00, and the 'Run Oper Factor' is 0.5. The 'Fixed burden' is 10.00, and the 'Variable burden' is 10.00. The 'Effective%' is 100. The 'Cycles B4 Resetup' is 0. The 'Matrix Speed Mat ID' is empty. The 'Scrap%' is 0. The 'Minimal Charge(\$)' is 0.00, and the '% to One Time Charge' is 0.00. The 'Tool Cost(\$)' is 0.00, and the 'Engineering Cost(\$)' is 0.00. The 'Miscellaneous Cost(\$)' is 0.00. The 'Tool Needed' is 'No'. The 'WorkCenter #' is 'HBS'. The 'Step Num' is '200'. The 'Operation Code' is 'Saw'. The 'Horizontal Band Saw' is selected. The 'Sawing Blanks' is the step description. The 'Estimate #' is '20', the 'Part #' is '1410 [B]', and the 'Customer #' is '200 [Hughes Brothers, Inc.]'. The 'Estimated by' is 'RAH', and the 'Estimate date' is 'Jul-12-2001'. The 'Estimating' window has a menu bar with 'Estimating', 'Functions', 'Reports', 'Window', and 'Help'. The 'Step Definition' window has a toolbar with 'New', 'Save', 'Cancel', 'Delete', 'Import', 'Sequence', 'StepEst', 'Estimate', 'RFQ', and 'Clear'. The 'Step Definition' window has a table with columns 'Step', 'Type', 'Operation Code', and 'Description'. The table has two rows: '100 M Matl Material Issue' and '200 P Saw Sawing Blanks'. The 'Step Definition' window has tabs for 'Material Step', 'Primary/Secondary Step', and 'Outside Step'. The 'Primary/Secondary Step' tab is selected. The 'Step Definition' window has a 'Detail' section with fields for 'Burden type', 'Speed type', 'Setup Hours', 'Setup\$/HR', 'Operation Count', 'Run\$/HR', 'Run Oper Factor', 'Fixed burden', 'Variable burden', 'Effective%', 'Cycles B4 Resetup', 'Matrix Speed Mat ID', 'Minimal Charge(\$)', '% to One Time Charge', 'Tool Cost(\$)', 'Engineering Cost(\$)', 'Miscellaneous Cost(\$)', 'Tool Needed', 'WorkCenter #', 'Step Num', 'Operation Code', 'Horizontal Band Saw', 'Sawing Blanks', 'Scrap%', and 'Matrix Speed Mat ID'.

Step	Type	Operation Code	Description
100	M	Matl	Material Issue
200	P	Saw	Sawing Blanks

Material Step		Primary/Secondary Step		Outside Step	
Step Num:	200	Operation Code:	Saw	Sawing Blanks	
WorkCenter #:	HBS	Horizontal Band Saw			
Tool Needed:	No	Minimal Charge(\$):	0.00	Scrap%:	0
Tool Cost(\$):	0.00	% to One Time Charge:	0.00	Matrix Speed Mat ID:	
Engineering Cost(\$):	0.00	% to One Time Charge:	0.00		
Miscellaneous Cost(\$):	0.00	% to One Time Charge:	0.00		
Burden type:	\$	Fixed burden:	10.00	Variable burden:	10.00
Speed type:	Cycles per hour	Standard speed:	20	Effective%:	100
Setup Hours:	2	Resetup Hours:	0	Cycles B4 Resetup:	0
Setup\$/HR:	40.00	Run\$/HR:	35.00	Run Oper Factor:	0.5
Operation Count:	1	Setup Oper Factor:	1		

Estimating Outside Step

Use this utility to import a step from existing routings.

Pick your Vendor here.

Detail Quantity Costs and Markups are defined here.

Estimating

Estimating Functions Reports Window Help

Step Definition

New Save Cancel Delete Import Sequence StepEst Estimate RFQ Clear

Estimate #: 20 Part #: 1410 [B]. Swinging Agnle Bracket Pipe
Customer #: 200 [Hughes Brothers, Inc.] Estimated by: RAH Estimate date: Jul-12-2001

Step	Type	Operation Code	Description
100	M	Matl	Material Issue
200	P	Saw	Sawing Blanks

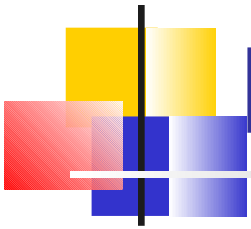
Material Step Primary/Secondary Step **Outside Step**

Step Num: Operation Code: Vendor #: Vendor Name: Minimal Charge(\$): 0.00 Cost Unit: per 1 piece(s) of part Scrap %: 0.00
Engineering cost(\$): 0.00 % to One Time Charge: 0.00
Miscellaneous cost(\$): 0.00 % to One Time Charge: 0.00

Detail

	Quantity	25	50	100	0	0	0	0
Cost/Unit(\$)		0.00	0.00	0.00				
Freight/Unit(\$)		0.00	0.00	0.00				
Markup %		0.00	0.00	0.00				
Delivery Days								

3/25/2002 11:52 AM



Estimating Review

Immediately after making your estimate, you can negotiate your Quote Price, Markup%, and/or One Time Charges with this easy to use screen

Estimating
Estimating Functions Reports Window Help

Quotation

Save Back Print Quote Delete

12/11/2001

**** QUOTE PRICE MAINTENANCE ****

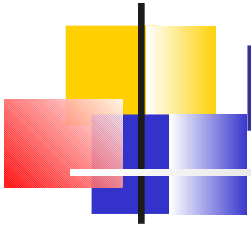
QUOTE #: 24
PART #: 1710
CUSTOMER: 200 [Hughes Brothers, Inc.]
Quote Unit: 1

Revision No: A

Quote Quantity	Quote Cost/Unit	Req. Price/Unit	Quote Price/Unit	Markup% /Unit	One Time Charge
1000	5.062		6.000	18.53	10200.000
2000	3.816		4.500	17.92	10200.000
3000	3.372		4.000	18.62	10200.000

Note:

3/26/2002 10:12 AM

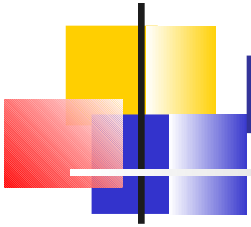


Estimating Review

See the detail cost and pricing per piece level.

Either the detail step or overall part estimate can be seen in this format.

Cost & Price of Estimate			
Estimate #:	23	Part #:	1400 [A], Swinging Angle Bracket
Customer #:	100 [Joslyn Mfg. & Supply]	Estimated by:	RAH
Estimate unit (EU): 1 piece(s) of part			
Quantity(EU)	25	50	75
Gross Material Cost/EU	18.8000	18.8000	18.8000
Net Material Cost/EU	18.8000	18.8000	18.8000
Primary Machining Cost/EU	3.5000	3.5000	3.5000
Secondary Machining Cost/EU	12.5000	12.5000	12.5000
Setup Cost/EU	3.4000	1.7000	1.1333
Die/Equipment/Gage Cost/EU	0.0000	0.0000	0.0000
Engineering Cost/EU	0.0000	0.0000	0.0000
Miscellaneous Cost/EU	0.0000	0.0000	0.0000
Outside Cost	1.5000	1.4000	1.2500
Total Cost/EU	39.7000	37.9000	37.1833
Total Cost	992.50	1895.00	2788.75
One Time Charge	0.00	0.00	0.00
Price/EU	516.100	49.2700	48.3383
Total Price	1290.25	2463.50	3625.38
One Time Charge after Markup	0.00	0.00	0.00
Markup %	38.80	32.51	30.00
Total Finished Parts	25	50	75
Total Starting Parts	25	50	75
Quantity Factor	1.0000	1.0000	1.0000
Total Run Time(hr)	8.75	17.50	26.25



Estimating Markup Maintenance

Use Primary to define each cost element markup percentage.

Add to your Primary Markup with Compound Markups.

The screenshot shows the 'Estimating' software interface. The 'Estimating Reference Files' window is open, displaying a table of markup codes and their associated values. Below this, the 'Markup' configuration panel is visible, showing the 'Primary' tab selected. The 'Markup Code' is set to '10'. The 'One time charge' is 10.00, 'Gross matl' is 0.00, and 'Net matl' is 10.00. The 'Primary mach' is 10.00, 'Secondary mach' is 10.00, 'Setup' is 10.00, 'Die/equip/gage' is 10.00, 'Engineering' is 10.00, and 'Misc' is 10.00.

Markup Code	One time charge	Gross matl	Net matl	Primary mach
10	10.00	0.00	10.00	10.00
10/6	10.00	0.00	10.00	10.00
15	15.00	0.00	15.00	15.00
15/6	15.00	15.00	0.00	15.00
20	20.00	0.00	20.00	20.00
20/6	20.00	0.00	20.00	20.00
20/6/6	20.00	0.00	20.00	20.00

Markup Configuration Panel:

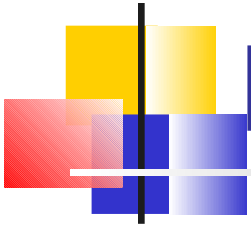
Markup Code: 10

One time charge: 10.00 Gross matl: 0.00 Net matl: 10.00

Primary mach: 10.00 Secondary mach: 10.00 Setup: 10.00

Die/equip/gage: 10.00 Engineering: 10.00 Misc: 10.00

3/25/2002 11:55 AM



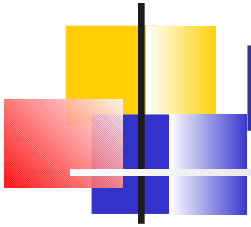
Estimating Price Break

Define Price Breaks by material.

The screenshot shows the 'Estimating' software interface. The 'Estimating Reference Files' toolbar contains buttons for New, Save, Cancel, Delete, SortOn, and ShowAll. The 'Price Break' tab is active, displaying a table of price breaks for material ID 100. The table has columns for quantity and unit cost. The base cost is \$1.00/LB. The quantity and unit cost values are as follows:

quantity	unit cost
1	1.00
1000	0.75
5000	0.72
10000	0.60
20000	0.55
40000	0.50
0	0.00
0	0.00
0	0.00
0	0.00

The status bar at the bottom shows the date 3/25/2002 and time 11:58 AM.



Estimating Matrix Speeds

Define your default Matrix speeds by Material and WorkCenter.

Estimating Reference Files

Material ID	WorkCenter ID	Matrix Speed	Description
1000	100T	40	16 ga. 24x36 Sheet HRPO
1000	200T	35	16 ga. 24x36 Sheet HRPO
1000	300T	30	16 ga. 24x36 Sheet HRPO
1000	GS	40	16 ga. 24x36 Sheet HRPO
1010	100T	35	14 Ga. 24x36 Sheet HRPO
1010	200T	30	14 Ga. 24x36 Sheet HRPO
1010	300T	25	14 Ga. 24x36 Sheet HRPO
1010	GS	25	14 Ga. 24x36 Sheet HRPO

Matrix Speed

Material ID: 1000 16 ga. 24x36 Sheet HRPO

WorkCenter ID: 200T 200 Ton Press

Default Speed: 15 cycles per hour

Matrix Speed: 35

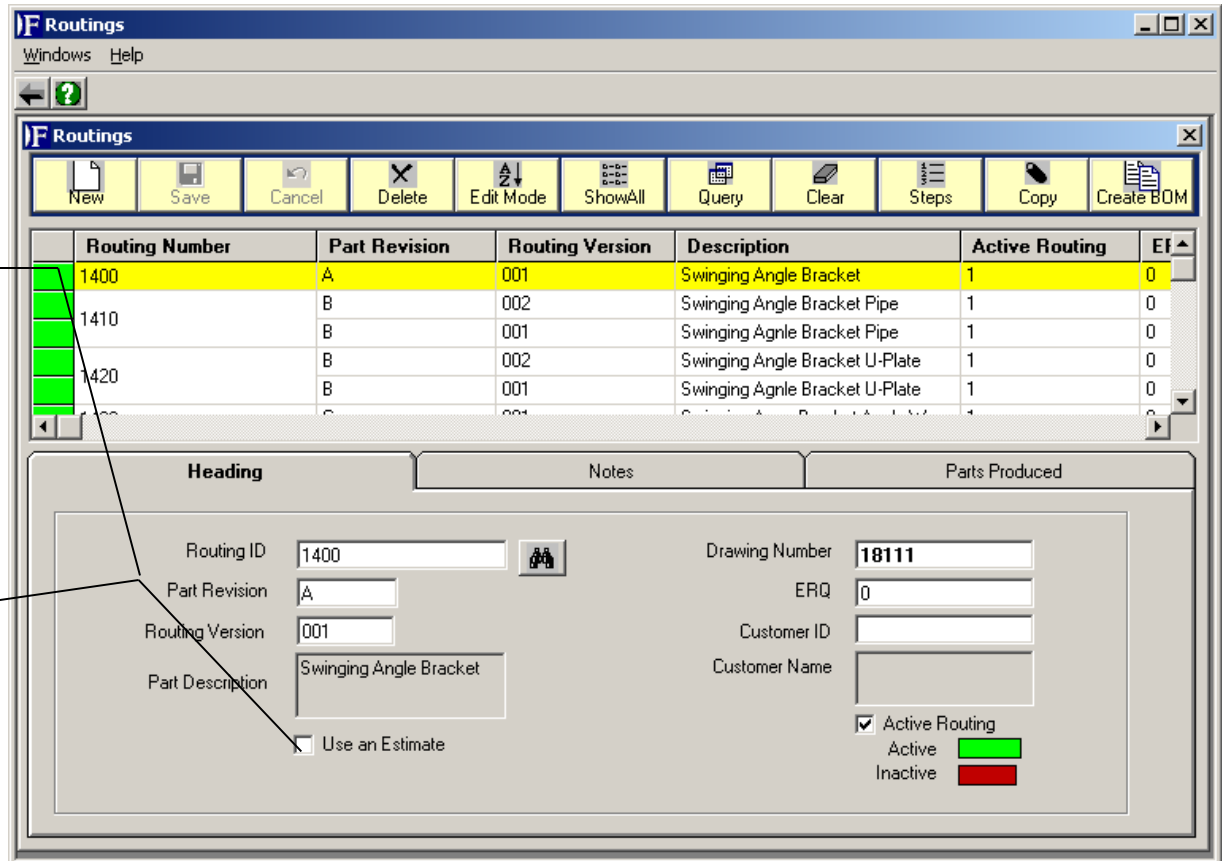
3/25/2002 11:58 AM



Routing Header

Routing versions and revisions combine to allow for you to define multiple methods of producing a part.

Flag this field to pull an estimate for a new routing.




IF Routings
Windows Help

IF Routings

New Save Cancel Delete Edit Mode ShowAll Query Clear Steps Copy Create BOM

Routing Number	Part Revision	Routing Version	Description	Active Routing	EF
1400	A	001	Swinging Angle Bracket	1	0
1410	B	002	Swinging Angle Bracket Pipe	1	0
1420	B	002	Swinging Angle Bracket U-Plate	1	0
1430	B	001	Swinging Angle Bracket U-Plate	1	0

Heading Notes Parts Produced

Routing ID: 1400 

Part Revision: A

Routing Version: 001

Part Description: Swinging Angle Bracket

☐ Use an Estimate


Drawing Number: 18111


ERQ: 0

Customer ID:

Customer Name:

☒ Active Routing

Active 

Inactive 

Routing Multiple Parts Produced

You can create more than one part per Routing and in varying quantities.

Material Allocation lets me define cost allocation to each finished par.

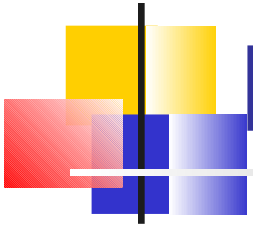
The screenshot shows the 'Routings' application window. The top menu bar includes 'Windows' and 'Help'. Below the menu is a toolbar with icons for 'New', 'Save', 'Cancel', 'Delete', 'Edit Mode', 'ShowAll', 'Query', 'Clear', 'Steps', 'Copy', and 'Create BOM'. The main window displays a table of routings:

Routing Number	Part Revision	Routing Version	Description	Active Routing	EF
1400	A	001	Swinging Angle Bracket	1	0
1410	B	002	Swinging Angle Bracket Pipe	1	0
1420	B	001	Swinging Angle Bracket Pipe	1	0
1420	B	002	Swinging Angle Bracket U-Plate	1	0
1420	B	001	Swinging Angle Bracket U-Plate	1	0

Below the table, there are sections for 'Heading', 'Notes', and 'Parts Produced'. The 'Parts Produced' section shows a table with the following data:

Part id/rev	Description	UOM	Total qty	Matl alloc
1400/A	Swinging Angle Bracket	Each	1	100.00

At the bottom, the 'Part Detail' section includes 'Update' and 'Remove' buttons, and fields for 'Total quantity' and 'Material Allocation'. The 'Total Allocation' is shown as 100.



Routings Material Steps

FutureShop incorporates the material step into the routing. This allows us to properly schedule from Production Plan.

The screenshot shows the 'Routings' application window. Inside, there's a sub-window titled 'Step Definition for Routing '1430''. It features a toolbar with 'New', 'Save', 'Cancel', 'Delete', 'Import', and 'Sequence' buttons. Below the toolbar is a table with the following data:

Step Number	Operation Code	Operation Type	Work Center Id	Machine Id	Allow Alternating Work Center	Me
100	Mall	M			0	107
200	Mall	M			0	141
300	CL	P	LC		0	
400	FP300	P	300T		0	

Below the table, there are three tabs: 'Material Step', 'Primary/Secondary Step', and 'Outside Step'. The 'Material Step' tab is active, showing a form with the following fields:

- Step Number: 100
- Operation Code: Mall
- Item: 1070
- Part Revision: 0
- UDM: Foot
- Unit/Part: 4.5

At the bottom of the 'Material Step' tab is a 'Notes' section with a text area.

Routings Primary/Secondary Steps

Routings have essentially the same information as the Estimating except without the costing information.

Ability to allow "Multi-Scheduling" or overlapping of steps.

Define part specific, operating parameters.

Step Number	Operation Code	Operation Type	Work Center Id	Machine Id	Allow Alternating Work Center	Me
100	Mall	M			0	107
200	Mall	M			0	141
300	CL	P	LC		0	
400	FP300	P	300T		0	

Primary/Secondary Step

Step Number: 300 Operation Code: CL

Work Center: LC Machine: [dropdown]

Operation Count: 1 Scrap Percent: 0

Speed

Speed Type: C Maximum Speed: 6

Effective %: 100 Effective Speed: 6

Operator

Initial Setup: 2 Resetime Time: 0

Setup Operator Fact: 1 Run Operator Fact: 1

Equipment Required: ☐ Contiguous: ☒ Rework Flag: ☐

Scheduling

Work Center: ☐ Allow Multi Scheduling: ☐

Fixed Time: 0 Cycles Before Resetup: 0

Queue Time: 0 Batch Size: 0

Forward Lot Size: 0

Rework Fraction: 1

Notes

[Text area for notes]

Visual BOM

View your materials visually.

Routing

Bill Of Materials

New BOM Add Cancel Copy Delete Find Replace Save ShowAll

Create Display

Display Bill of Material

Levels 99
Item # 1070
Part Revision 0
Quantity 4.5

Type P
Unit of Measure Fo
Description 3"X 3"X1/4" Angle

1400/A
1410/B
1060/0
2400/0
1430/C
1070/0

Work Order

Work Order interface is much the same as Estimating an Routing.

...except that we now associate Sales Orders, Quotes, Components and time via Required and Planning Dates.

The screenshot displays the 'Work Orders' application window. At the top is a menu bar with 'Windows' and 'Help'. Below it is a toolbar with icons for New, Save, Cancel, Delete, Edit Mode, ShowAll, Query, Clear, Steps, Release, Complete, and Print. The main area features a table with the following data:

Work Order	Sales Order	Line	Quote	Warehouse	Routing ID	Part Revision
105	SO_0000002	1		01	1900	001
112		0		01	1550	001
165		0		01	1820	001
175		0	18	01	1860	001
215		0		01	1820	003

Below the table is a form with four tabs: 'Heading', 'Components', 'Notes', and 'Parts Produced'. The 'Heading' tab is active, showing the following fields:

Work Order	105	Routing ID	1900
Sales Order	SO_0000002	Version	001
Line	1	Part Revision	A
Customer	100	Required Date	3 / 31 / 2002
Quote		Planned Date	3 / 8 / 2002
Warehouse	01	UOM	Each
Quantity	500		

The status bar at the bottom right shows the date '3/25/2002' and time '4:28 PM'.

Sales Order

Keep notations specific to Customer and Order to let others know of client status.

The screenshot shows a 'Sales Order Processing' application window. The 'Sales Order Header' section contains the following fields:

- Order ID:
- Warehouse:
- Sold To:
 - Cust. ID:
 - Name:
 - Address 1:
 - Address 2:
 - City:
 - State: Zip Code:
 - Country:
 - Contact:
- Sales Rep. ID:
- Terms:
- Reference:
- Customer PO:

A 'Sales Order Message Pad' dialog box is open in the foreground, displaying a message:

Msg1 This customer needs product ASAP. We will make the CEO look real good if we get this done.

The dialog box has buttons for 'NEW', 'DEL', and 'OK'. The main application window has a menu bar with 'Sales Orders', 'Annotations', 'Functions', 'Windows', and 'Help'. The status bar at the bottom shows the date '3/25/2002' and time '4:37 PM'.

Sales Order

Each line item can be delivered to multiple destinations.

Each destination can have multiple due future quantities and ship dates.

Edit Line Item Distribution 1

New Save Cancel Notes Exit

Line Item Specification

Quote ID:

Item ID: **1400** Rev: **A**

Item Desc: **Swinging Angle Bracket**

Item Status: **On File** Stock UOM: **Each**

Quantity: Weight UOM: **Lbs**

Cust Part #: Weight Unit: **0**

Ship UOM: **Each**

Commission %:

Line Item Pricing

Pricing Source: **Manual Entry** Level:

Unit Cost: **\$0.00** UOM: **Each**

Unit Price: **\$50.00** UOM: **Each**

Adjustment: **\$0.00** Adj%:

Net Unit Price: **\$50.00**

Extended Price: **\$0.00**

Item Order Quantities

Ship Dest	Available	Ordered	Released	Bal. Due	Due B/O	Due Future
FA	30	15,000	5,000	15,000	0	10,000
RM	30	45,000	40,000	45,000	0	5,000
TOTALS						
		60,000	45,000	60,000	0	15,000

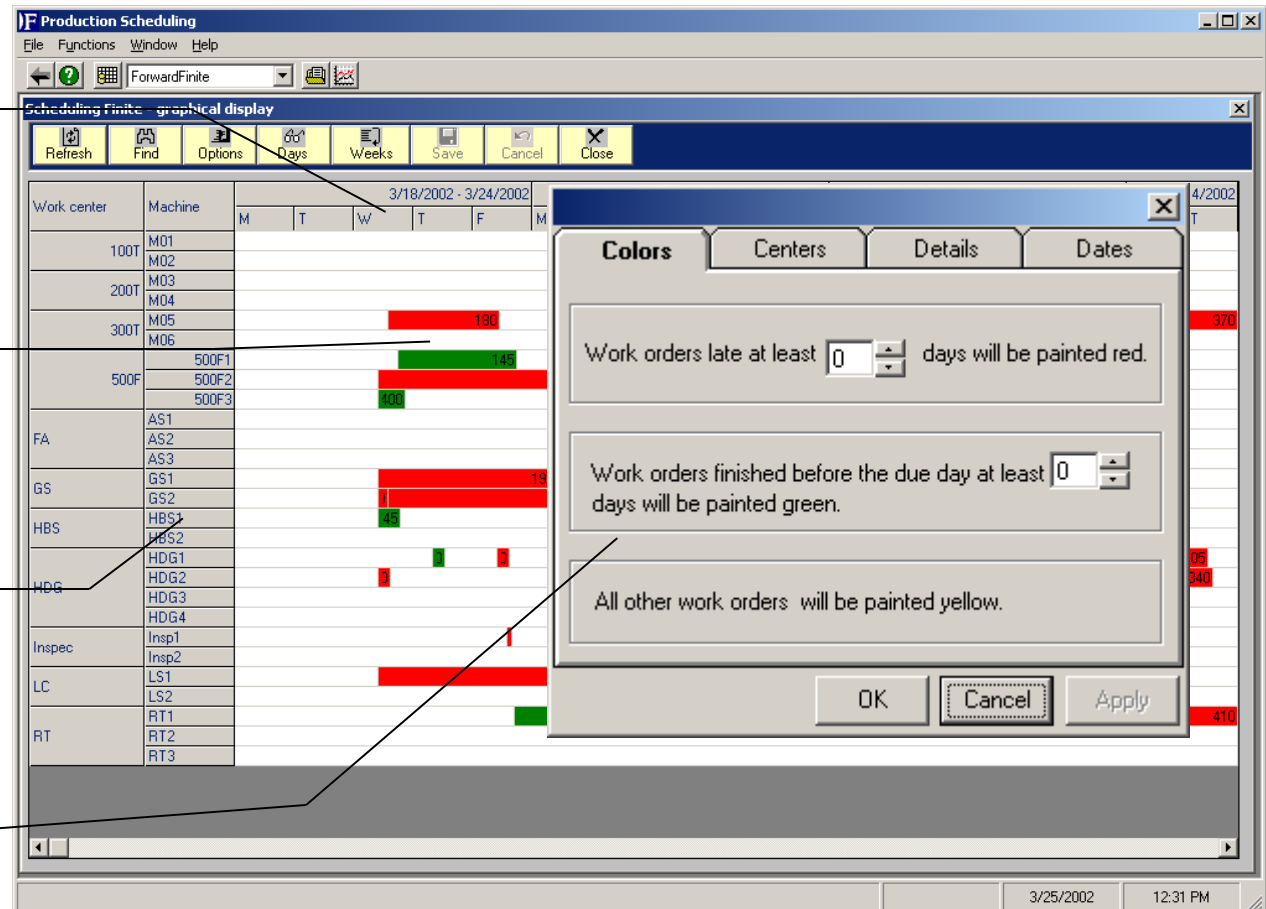
Scheduling Overview

Use drag and drop to change schedule in what-if scenario.

Definable color-coding tells you exactly where to focus.

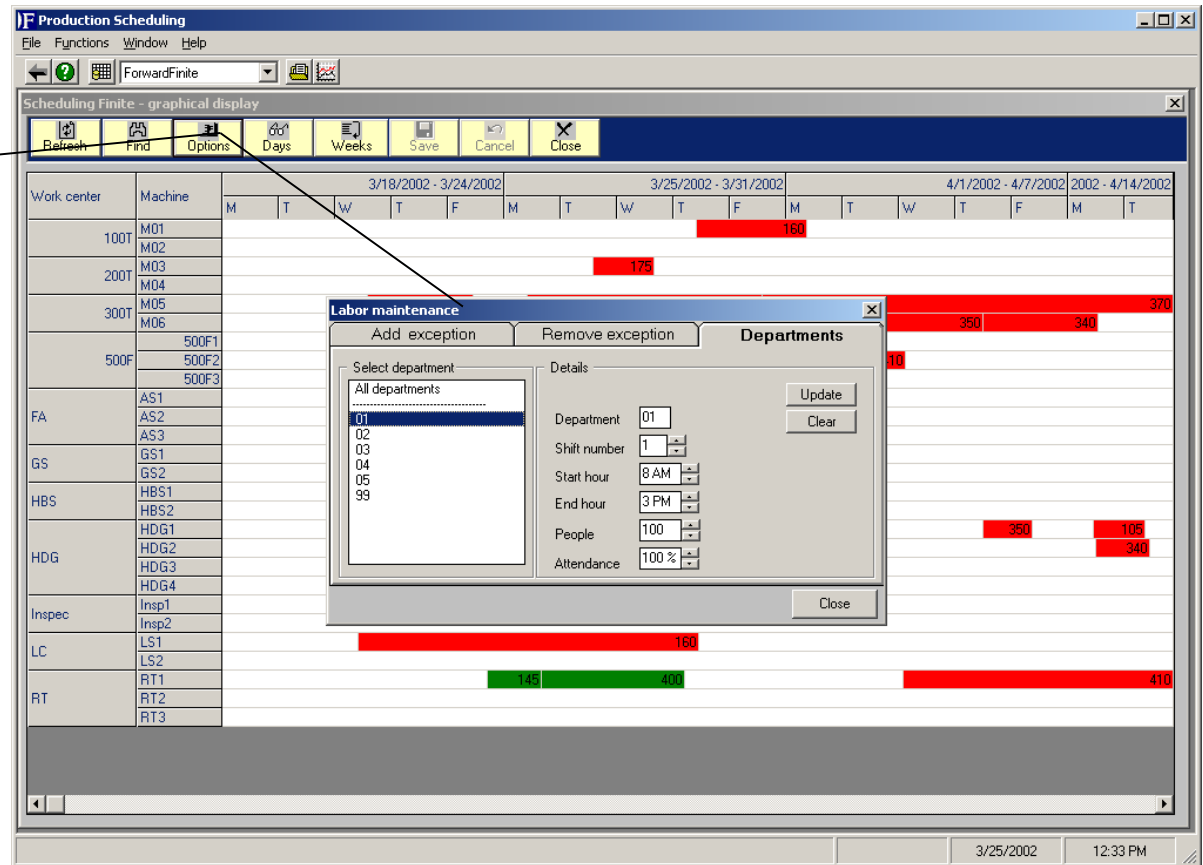
Define what Work Centers and Machines you want to see.

Parameters set the style of your schedule.



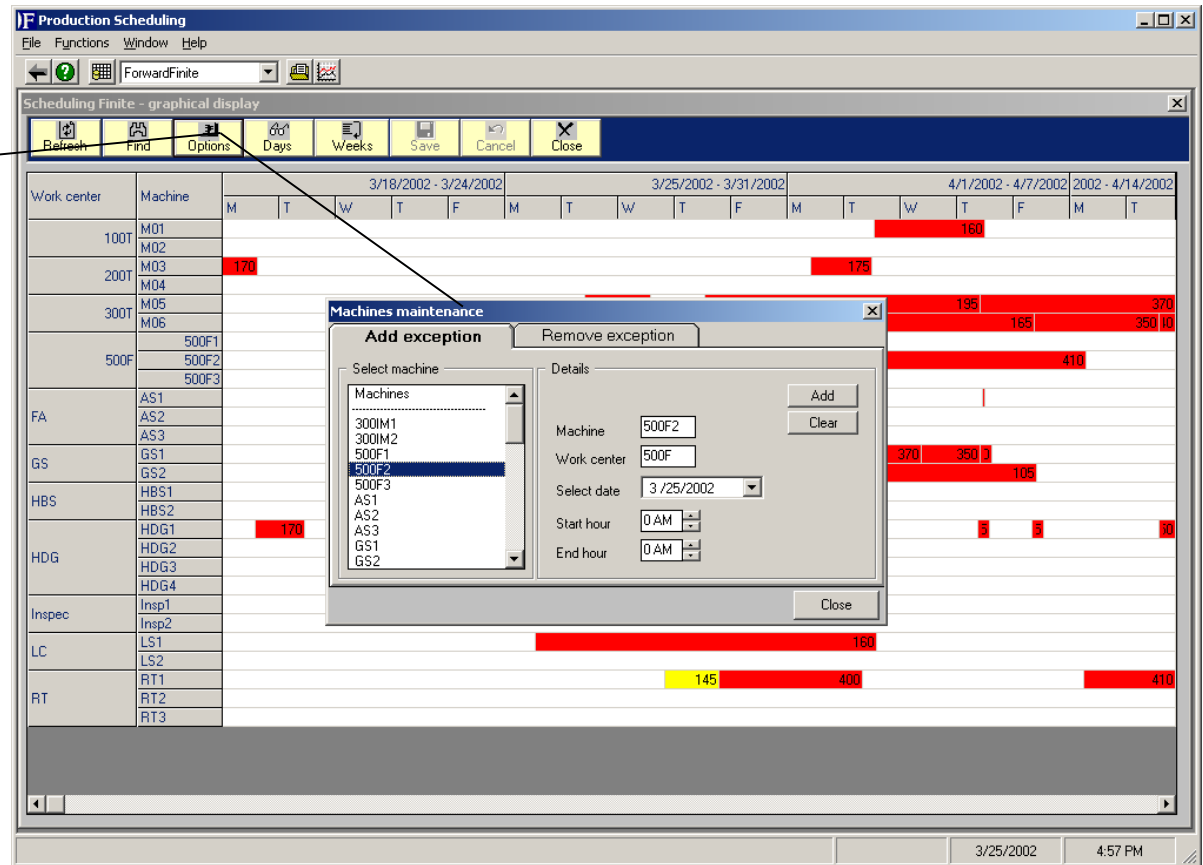
Scheduling What-If

Define Labor constraint exceptions.



Scheduling What-If

Define Machine constraint exceptions.



Scheduling What-If

Define Holiday constraint exceptions.

Production Scheduling

File Functions Window Help

Scheduling Finite - graphical display

Refresh Find Options Days Weeks Save Cancel Close

Work center	Machine	3/18/2002 - 3/24/2002	3/25/2002 - 3/31/2002	4/1/2002 - 4/7/2002	2002 - 4/14/2002
100T	M01				
100T	M02				
200T	M03	170			
200T	M04		175		
300T	M05				
300T	M06				
500F	500F1				
500F	500F2				
500F	500F3				
FA	AS1				
FA	AS2				
FA	AS3				
GS	GS1				
GS	GS2				
HBS	HBS1				
HBS	HBS2				
HDG	HDG1	170			
HDG	HDG2				
HDG	HDG3				
HDG	HDG4				
Inspec	Insp1				
Inspec	Insp2				
LC	LS1				
LC	LS2				
RT	RT1		145	400	410
RT	RT2				
RT	RT3				

Holidays maintenance

Add holiday Remove holiday

List of all holidays

- 2/16/2002, Saturday
- 2/17/2002, Sunday
- 2/23/2002, Saturday
- 2/24/2002, Sunday
- 3/2/2002, Saturday
- 3/3/2002, Sunday
- 3/9/2002, Saturday
- 3/10/2002, Sunday
- 3/16/2002, Saturday
- 3/17/2002, Sunday

Select new holiday

March 2002

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24	25	26	27	28	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Date selected

Day selected

Today: 3/25/2002

Close

3/25/2002 4:58 PM

Scheduling What-If

View all or late Work Order details in grid fashion or....

Production Scheduling

File Functions Window Help

ForwardFinite

Scheduling Finite - graphical display

Refresh Find Options Days Weeks Save Cancel Close

3/18/2002 - 3/24/2002 3/25/2002 - 3/31/2002 4/1/2002 - 4/7/2002 2002 - 4/14/2002

Work center	Machine	Work Order Id	Order Date	Due Date	Quantity	Routing	Ro
100T	M01	100	11/27/2000	3/1/2002	5000	1800	
	M02						
	M03						
200T	M04						
	M05						
300T	M06	105	3/8/2002	3/31/2002	500	1900	
		160	5/29/2001	3/1/2002	1250	1600	
500F		165	10/27/2001	3/8/2002	2000	1820	
		170	2/22/2001	3/8/2002	1250	1810	
		175	10/27/2001	3/15/2002	2000	1860	
FA	AS1						
	AS2						
	AS3						
GS	GS1						
	GS2						
HBS	HBS						
	HDG						
HDG	HDG						
	HDG						
Inspec	Insp						
	Insp						
LC	LS1						
	LS2						
RT	RT1						
	RT2						
	RT3						

Work orders

All orders Late Save Cancel Sort off Close

Work Order Id	Order Date	Due Date	Quantity	Routing	Ro
100	11/27/2000	3/1/2002	5000	1800	
105	3/8/2002	3/31/2002	500	1900	
160	5/29/2001	3/1/2002	1250	1600	
165	10/27/2001	3/8/2002	2000	1820	
170	2/22/2001	3/8/2002	1250	1810	
175	10/27/2001	3/15/2002	2000	1860	

Production Routing Priority Options

Step Number: 200 Step Type: P

Work Center: GS Step Completed: No

Scheduled Start: 3/20/2002, 10:00 A Machine Code: GS2

Scheduled End: 3/20/2002, 10:00 A Equipment Required: No

Cycles to Date: 9700 Reschedule Flag: ☐

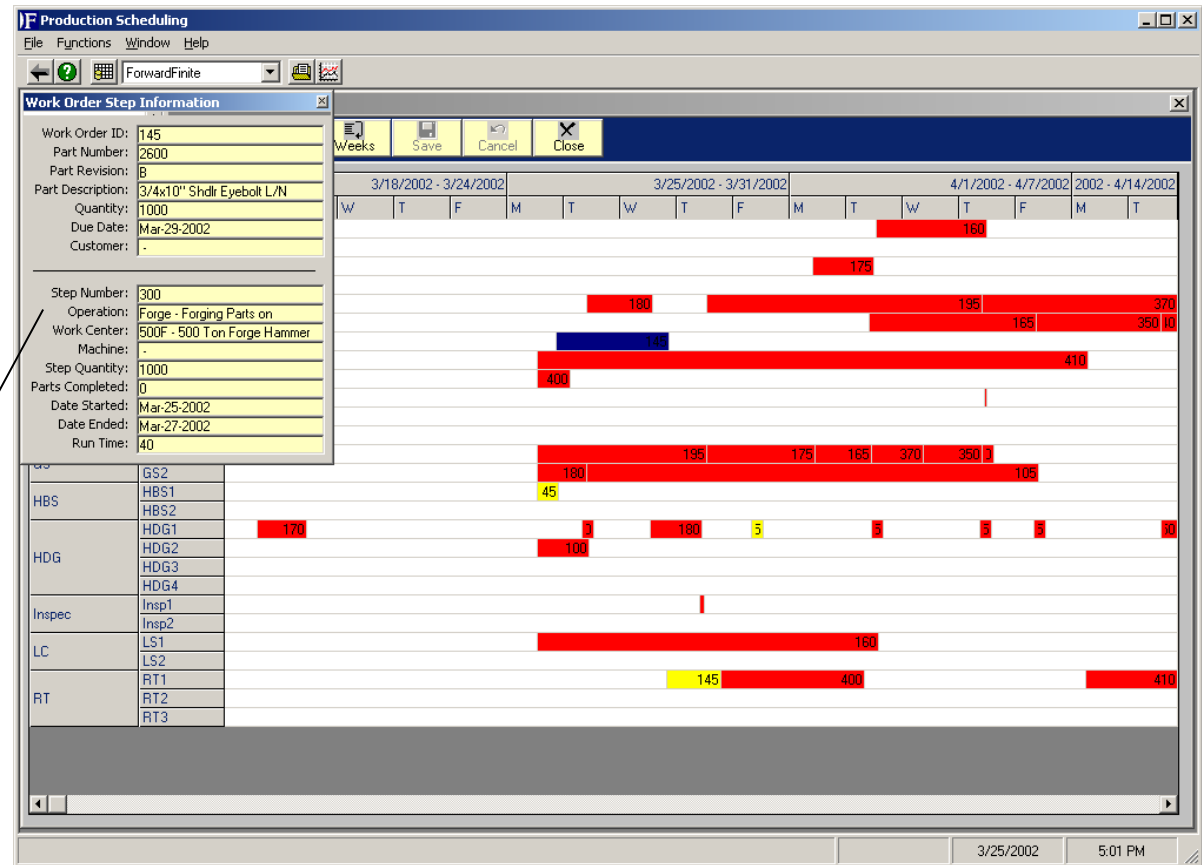
Set up to Date: 0 Reschedule Date: 12/5/2000

Remaining Set up: 0

3/25/2002 12:35 PM

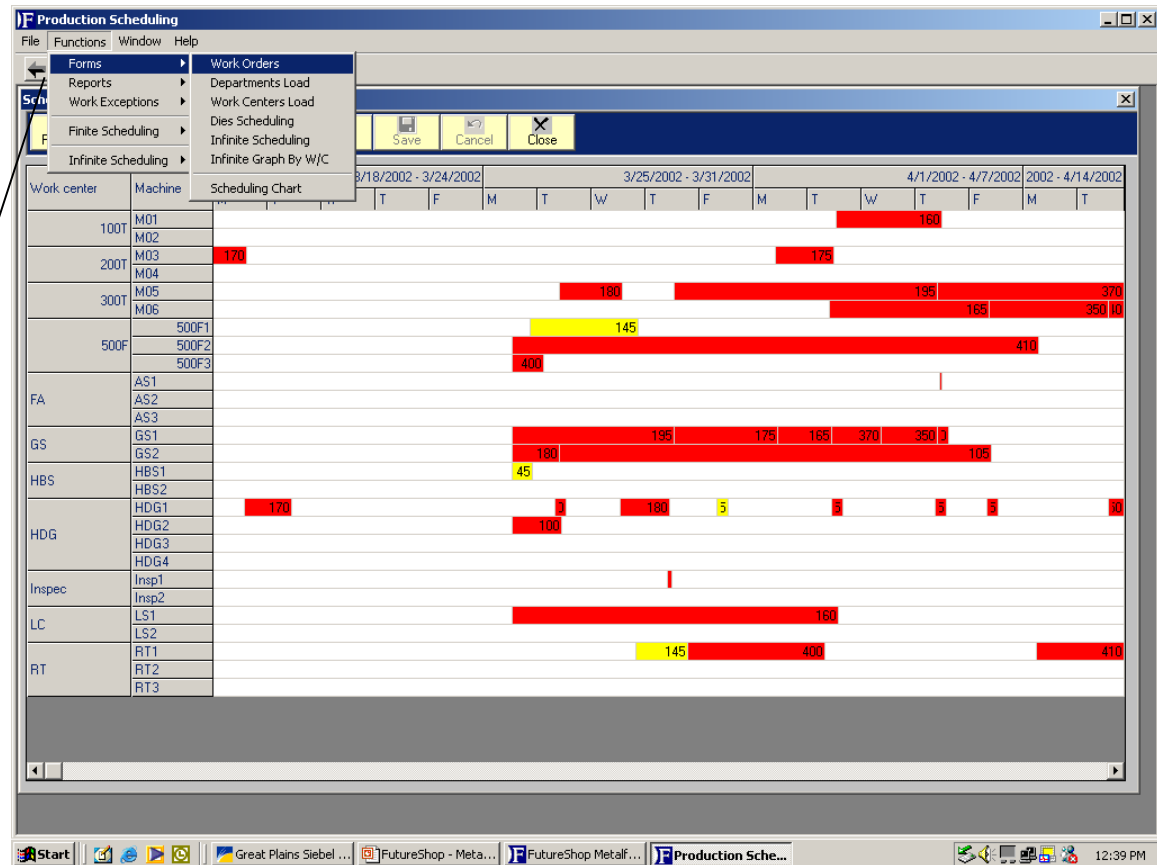
Scheduling What-If

....right click on a graphical order to get individual details.



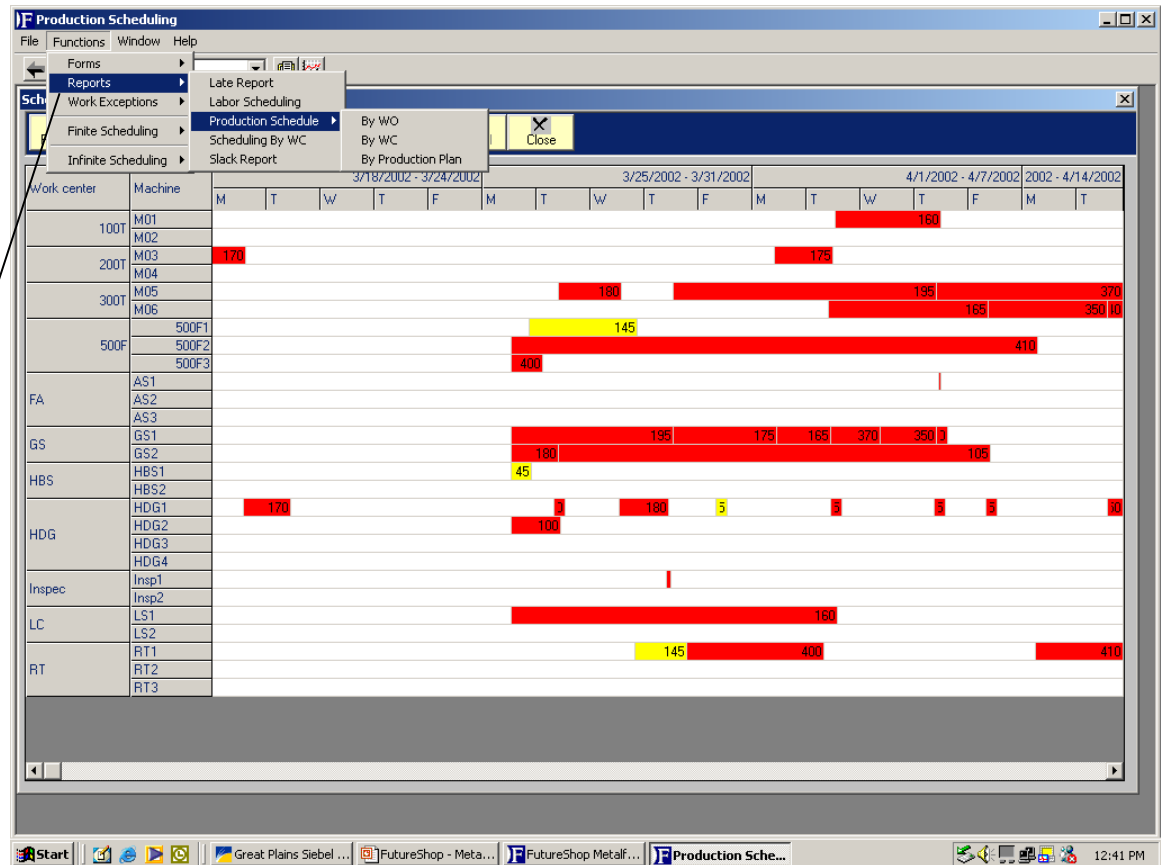
Scheduling Analysis

Multiple views of data by different functional parameters.



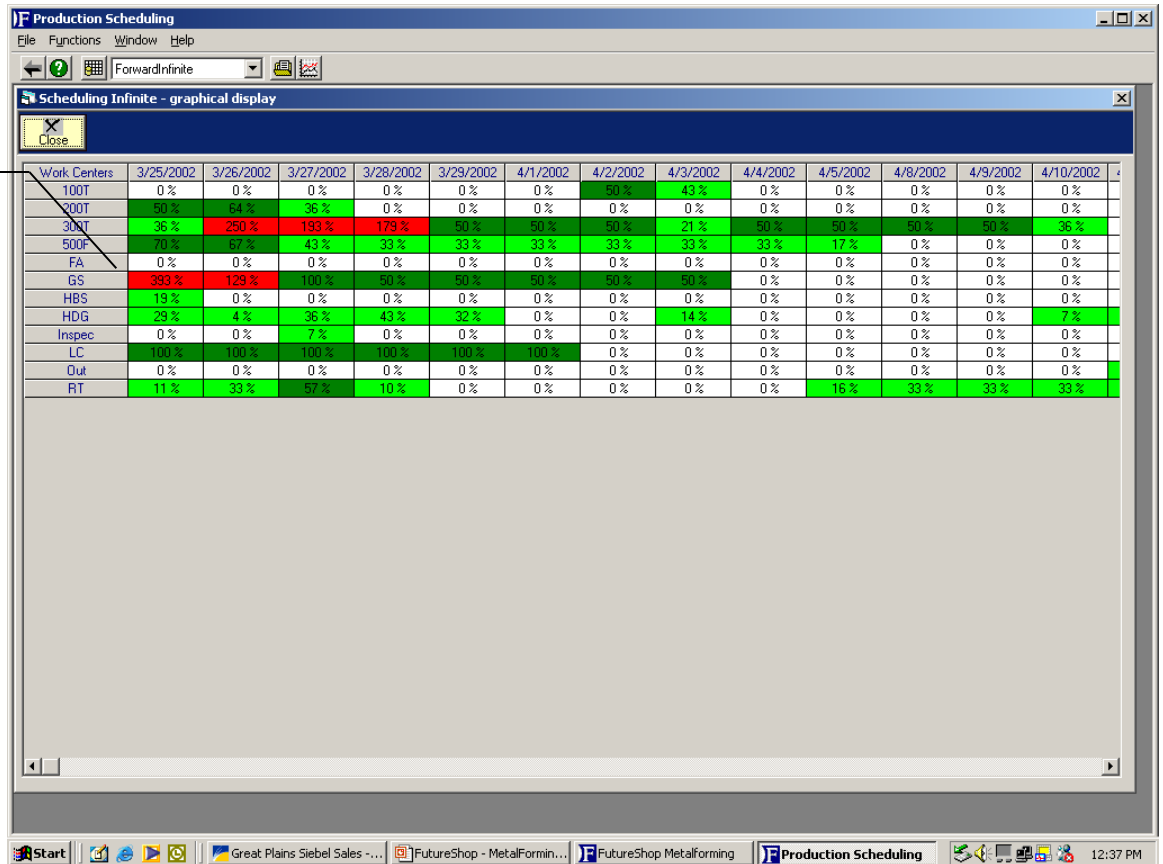
Scheduling Analysis

Multiple reports of scheduling data.



Scheduling Analysis

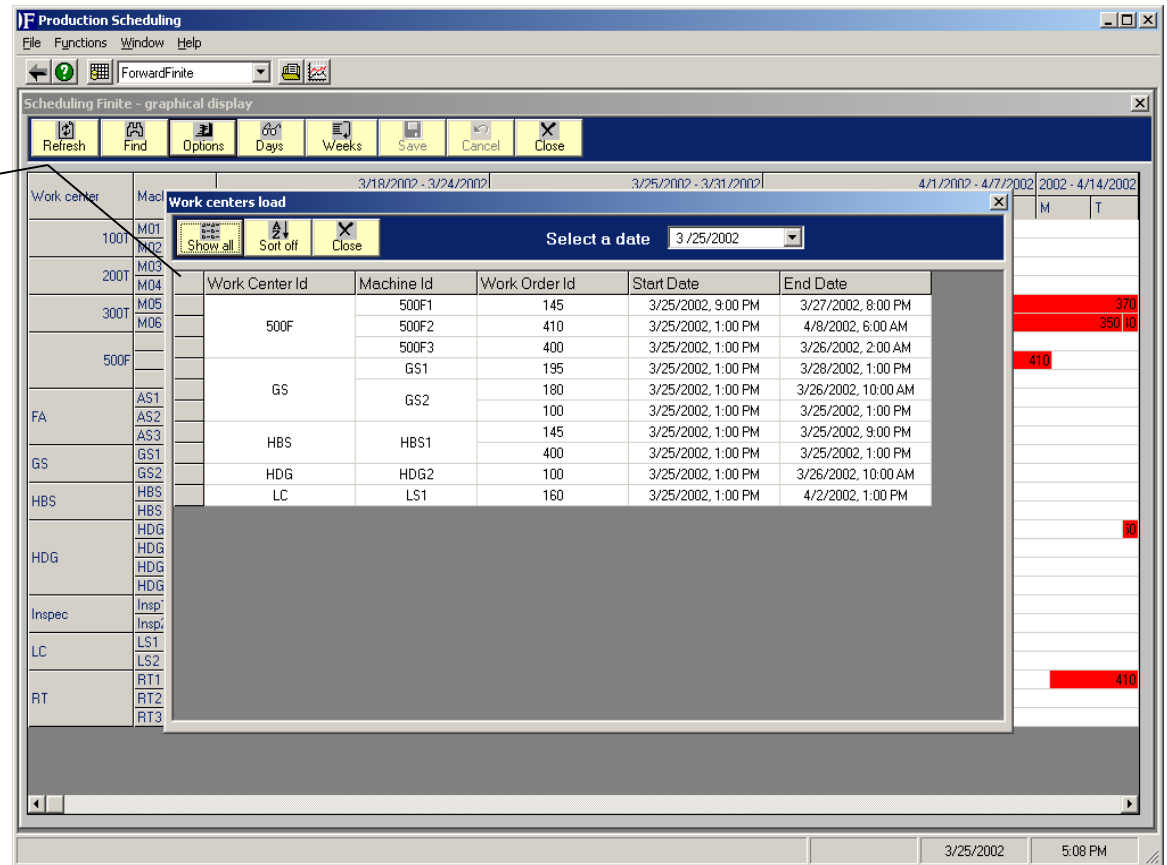
View data in a grid mode.



Work Centers	3/25/2002	3/26/2002	3/27/2002	3/28/2002	3/29/2002	4/1/2002	4/2/2002	4/3/2002	4/4/2002	4/5/2002	4/8/2002	4/9/2002	4/10/2002
100T	0 %	0 %	0 %	0 %	0 %	0 %	50 %	43 %	0 %	0 %	0 %	0 %	0 %
200T	50 %	54 %	36 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
300T	36 %	250 %	193 %	179 %	50 %	50 %	50 %	21 %	50 %	50 %	50 %	50 %	36 %
500F	70 %	67 %	43 %	33 %	33 %	33 %	33 %	33 %	33 %	17 %	0 %	0 %	0 %
FA	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
GS	393 %	129 %	100 %	50 %	50 %	50 %	50 %	50 %	0 %	0 %	0 %	0 %	0 %
HBS	19 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
HDG	29 %	4 %	36 %	43 %	32 %	0 %	0 %	14 %	0 %	0 %	0 %	0 %	7 %
Inspec	0 %	0 %	7 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
LC	100 %	100 %	100 %	100 %	100 %	100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
Out	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
RT	11 %	33 %	57 %	10 %	0 %	0 %	0 %	0 %	0 %	16 %	33 %	33 %	33 %

Scheduling Analysis

See the load on your Work Centers.



Labor and Time Tracking

Manually enter labor and time by employee.

The screenshot displays the 'Materials and Labor' software interface. The main window is titled 'Job Card Entry Form' and contains a toolbar with buttons for 'Add Trans', 'Del Trans', 'Clear', 'Commit Trans', and 'Indirect Time'. Below the toolbar is a table with the following columns: Employee Name, Step Number, Labor Type, Down Reason, WorkOrder Id, Part Id/Rev, and Set Up Factor. The table is currently empty. At the bottom of the window, there are several input fields and checkboxes organized into sections: 'Production Card' (including 'Select Employee', 'Work Order', 'Labor Step', 'Step Type', 'CyclesTo Date', 'Date', 'Step Completed', and 'Setup Completed'), 'Labor Time Card Entry' (including 'Cycles\Meter', 'Labor Type', 'Labor Date', 'Use Meter', 'Earn Code', and 'Down Code'), 'Time Card' (including 'Total Hours', 'Shift', 'Operator Factor', 'Total Cycles', 'Meter In', and 'Meter Out'), and 'Labor Time' (including 'Lot #', 'Machine', 'Work Center', 'Good', 'Reject', and 'On Hold'). A 'Comments' text area is located at the bottom right.

Employee Name	Step Number	Labor Type	Down Reason	WorkOrder Id	Part Id/Rev	Set Up Factor
---------------	-------------	------------	-------------	--------------	-------------	---------------

Production Card

Select Employee:

Work Order:

Labor Step:

Step Type:

CyclesTo Date:

Date:

Step Completed: ☐

Setup Completed: ☐

Labor Time Card Entry

Cycles\Meter:

Labor Type:

Labor Date:

Use Meter: ☐

Earn Code:

Down Code:

Time Card

Total Hours:

Shift:

Operator Factor:

Total Cycles:

Meter In:

Meter Out:

Labor Time

Lot #:

Machine:

Work Center:

Good:

Reject:

On Hold:

Comments:

Data Collection

Use touch-screen monitors, wands, or other bar code readers to handle Labor and Material data collection on the shop floor.

The screenshot shows a software window titled "Data Collection" with a menu bar (File, Help) and a toolbar with a back arrow and a help icon. The main area is titled "Data Collection" and contains a "Labor Reporting" section. This section has several input fields: "Employee ID" (highlighted in yellow), "Shift" (a dropdown menu), "Activity Date" (set to 25-Mar-2002), "Employee Name" (a text field), "Time" (set to IN 12:29:16), "Labor Type" (a dropdown menu), "Good Quantity" (a text field), "Work Order" (a text field), "On Hold Quantity" (a text field), "Step" (a dropdown menu), and "Rejected Quantity" (a text field). Below the form is a large numeric keypad with letters A-Z, numbers 0-9, and function keys like "Space", "Caps", "Shift", "ENTER", "COMMIT", and "EXIT". The status bar at the bottom shows the date "3/25/2002" and time "12:29 PM".

Data Collection									
Labor Reporting									
Employee ID		Shift		Activity Date		25-Mar-2002			
Employee Name				Time		IN 12:29:16			
Labor Type				Good Quantity					
Work Order				On Hold Quantity					
Step				Rejected Quantity					

A	B	C	D	E	F	G	7	8	9	Labor
H	I	J	K	L	M	N	4	5	6	Material
O	P	Q	R	S	T	U	1	2	3	ENTER
V	W	X	Y	Z	BS	TAB	Caps	0	Shift	
Space							COMMIT		EXIT	

3/25/2002 12:29 PM

Job Costing

Detailed Job Costing allows you to drill down to the Work Order Step level to find costing problems.

Job Costing

JobCosting Function Help

Run Cost Chart View Clear Save Reset Date

Data Entry

Part number 1500

Part Revision A

Work Order ID 150

Step Number 400

Date Range

From 3/25/2002

Part Number = '1500', Part Rev = 'A'

Work Order ID	ESTIMATED COST	BUDGETED COST	ACTUAL COST
340	\$ 0.00	\$ 0.00	\$ 0.00
150	\$ 0.00	\$ 157,806.10	\$ 4,654.44
1050	\$ 0.00	\$ 157,806.10	\$ 0.00
wo15	\$ 0.00	\$ 0.00	\$ 0.00

Average Cost

	ESTIMATED COST	BUDGETED COST
SETUP	\$ 0.00	\$ 0.00
RUN	\$ 0.00	\$ 0.00
MAT	\$ 0.00	\$ 0.00
VBURD_CST	\$ 0.00	\$ 0.00
FBURD_CST	\$ 0.00	\$ 0.00
DIETOOL	\$ 0.00	\$ 0.00
OUTSIDE	\$ 0.00	\$ 0.00
GAGE	\$ 0.00	\$ 0.00
EQUIP	\$ 0.00	\$ 0.00
AVERAGE	\$ 0.00	\$ 0.00
TOTAL	\$ 0.00	\$ 700.00

Work Order 150

STEP NUMBER	ESTIMATED COST	BUDGETED COST	ACTUAL COST
100	\$ 0.00	\$ 156,777.60	\$ 2,795.44
200	\$ 0.00	\$ 78.50	\$ 560.00
300	\$ 0.00	\$ 250.00	\$ 0.00
400	\$ 0.00	\$ 700.00	\$ 1,299.00

3/25/2002 12:44 PM

Job Costing

Compare your estimates to your budgets and to your actual costs.

	ESTIMATED COST	BUDGETED COST	ACTUAL COST
SETUP	\$ 0.00	\$ 0.00	\$ 0.00
RUN	\$ 0.00	\$ 140.00	\$ 319.00
MAT	\$ 0.00	\$ 0.00	\$ 0.00
VBURD_CST	\$ 0.00	\$ 160.00	\$ 280.00
FBURD_CST	\$ 0.00	\$ 400.00	\$ 700.00
DIETOOL	\$ 0.00	\$ 0.00	\$ 0.00
OUTSIDE	\$ 0.00	\$ 0.00	\$ 0.00
GAGE	\$ 0.00	\$ 0.00	\$ 0.00
EQUIP	\$ 0.00	\$ 0.00	\$ 0.00
AVERAGE	\$ 0.00	\$ 0.00	\$ 0.65
TOTAL	\$ 0.00	\$ 700.00	\$ 1,299.00

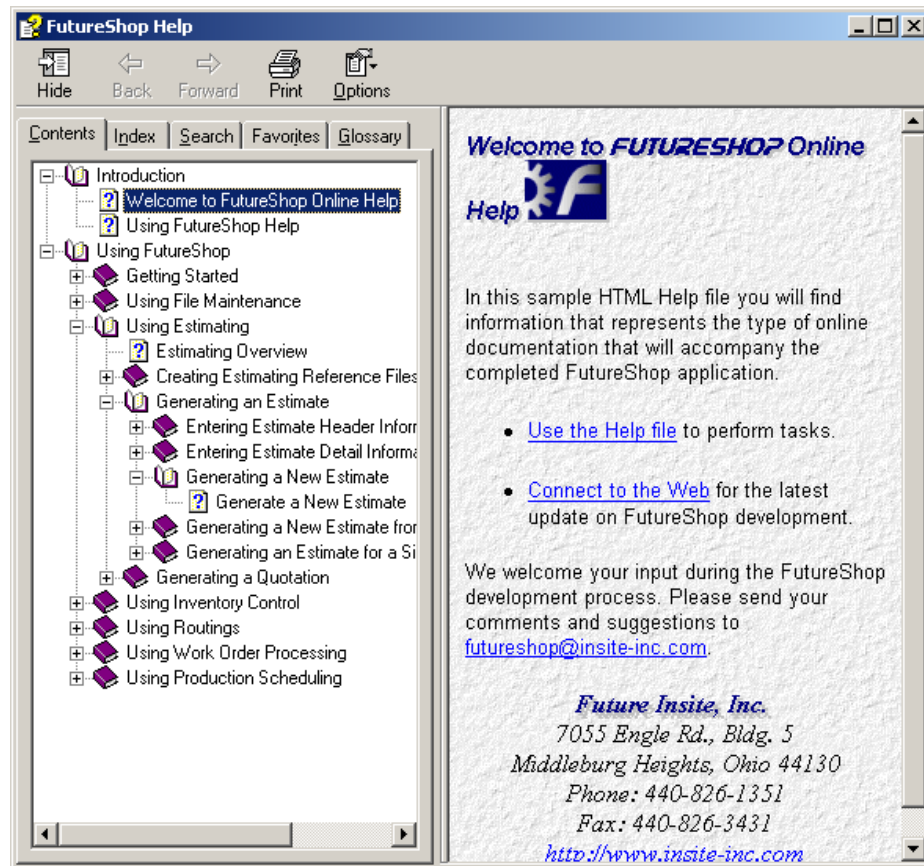
3/25/2002 12:44 PM

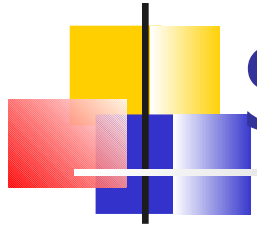


System - Help

- Standard Microsoft Windows Help
- Help contains full system Documentation
- Hyperlinks
- Field Level Help

System - Help





System - Navigation

- Configurable Explorer Menu
- “Flex-Grid” and “Forms” = consistent navigation
- “Flex-Grid” = powerful query features
- “Flex-Grid” used for report filtering
- All field Labels re-definable

System - Navigation

The screenshot displays the FutureShop Metaforming application interface. On the left is the 'FutureShop Main Menu' with a tree structure of options: FutureShop, FutureShop Reports, FutureShop Inquiries, FutureShop Master Files (expanded), Administration (expanded), Employees, Job Skills, Master Codes, Prox Terms, Distribution, Inventory, and Manufacturing. On the right is the 'Master File Maintenance' window for an 'Employee' record. It features a toolbar with 'New', 'Cancel', 'Sort Mode', 'ShowAll', and 'Hide Query'. Below is a query input field with a 'Valid Syntax' dropdown and an 'Execute' button. A table shows a single record with fields: Emp ID, First Name, Initial, Last Name (bolded as 'benj*'), Address 1, and Address 2. Below the table are tabs for 'Address', 'Stats', 'Payroll', 'Skills', 'Notes', and 'Photo'. The 'Address' tab is active, showing a form with fields for Emp ID, City, First Name, State, Initial, Zip Code, Last Name, Telephone, Address 1, Address 2, and Sex. A 'Mark for deletion' checkbox is also present. A status bar at the bottom indicates the date 3/25/2002 and time 1:12 PM. The Windows taskbar at the very bottom shows the Start button and several open applications.

FutureShop Main Menu

- FutureShop
- FutureShop Reports
- FutureShop Inquiries
- FutureShop Master Files
 - Administration
 - Employees
 - Job Skills
 - Master Codes
 - Prox Terms
 - Distribution
 - Inventory
 - Manufacturing

Master File Maintenance - Employee

File Maintenance Help

Employee

New Cancel Sort Mode ShowAll Hide Query

Type your query in one or more fields and click on the Execute button.
Valid Syntax: (= is the default value) Execute

Emp ID:	First Name:	Initial:	Last Name:	Address 1:	Address 2:
			benj*		

Address Stats Payroll Skills Notes Photo

☐ Mark for deletion

Emp ID: 100 City: Middleburg Hts.
First Name: Craig State: OH
Initial: R Zip Code: 44130
Last Name: Benjamin Telephone: (440)555-1250
Address 1: 6850 Freeway Circle Sex: M
Address 2: Apt. #3B

(Bold fields are Required fields. Record will not be saved without them.)

3/25/2002 1:12 PM

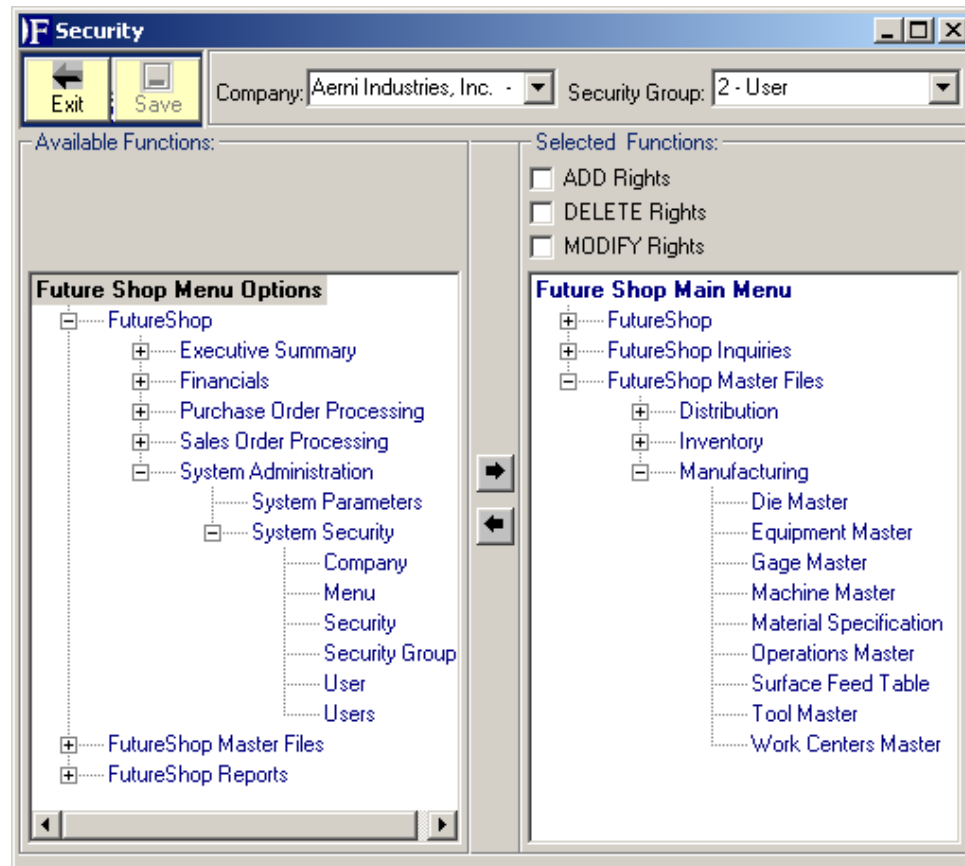


System - Security

- Group or User level security
- Menu Names Definable by user
- Menu Tree Definable by user
- System ID and Login defines access
- System Parameters standardize data entry



System - Security





Extended Industry Specific Functionality

- Specific Industry Vertical features including Shaping, Tool Crib, ISO and QS 9000 tools, and more!
- EDI
- Data Collection Tools – Wand, Bar Code, Touch Screen, RF
- MS Office integration
- Crystal Reporting
- Configurable Alerts and Triggers
- Employee, Vendor, Customer Web Interfacing tools
- N-Tier Design allowing for Database and System Interoperability and Scalability