



Affordable, Adaptable ERP Software



*Capacity
Requirements
Planning
User Guide*

Version 6.10

Fitrix™

Capacity Requirements Planning ♦ Product Guide

Version 6.10

Copyright

Copyright (c) 1988-2020 Fourth Generation Software Solutions. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form by any means without the written permission of Fourth Generation Software Solutions.

Software License Notice

Your license agreement with Fourth Generation Software Solutions, which is included with the product, specifies the permitted and prohibited uses of the product. Any unauthorized duplication or use of Fitrix INFORMIX-4GL version, in whole or in part, in print, or in any other storage and retrieval system is forbidden.

Licenses and Trademarks

Fitrix is a registered trademark of Fourth Generation Software Solutions. Informix is a registered trademark of Informix Software, Inc. UNIX is a registered trademark of AT&T.

FITRIX ACCOUNTING MANUALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, FURTHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE FITRIX ACCOUNTING MANUALS IS WITH YOU. SHOULD THE FITRIX ACCOUNTING MANUALS PROVE DEFECTIVE, YOU (AND NOT FOURTH GENERATION SOFTWARE SOLUTIONS SOFTWARE OR ANY AUTHORIZED REPRESENTATIVE OF FOURTH GENERATION SOFTWARE SOLUTIONS) ASSUME THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR, OR CORRECTION IN NO EVENT WILL FOURTH GENERATION SOFTWARE SOLUTIONS BE LIABLE TO YOU FOR ANY DAMAGES, INCLUDING ANY LOST PROFITS, LOST SAVINGS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE SUCH FITRIX ACCOUNTING MANUALS, EVEN IF FOURTH GENERATION SOFTWARE SOLUTIONS OR AN AUTHORIZED REPRESENTATIVE OF FOURTH GENERATION SOFTWARE SOLUTIONS HAS BEE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY. IN ADDITION, FOURTH GENERATION SOFTWARE SOLUTIONS SHALL NOT BE LIABLE FOR ANY CLAIM ARISING OUT OF THE USE OF OR INABILITY TO USE SUCH FITRIX SOFTWARE OR MANUALS BASED UPON STRICT LIABILITY OR FOURTH GENERATION SOFTWARE SOLUTIONS' NEGLIGENCE. SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

Fourth Generation Software Solutions
100 Galleria Parkway, Suite 1020
Atlanta, GA 30339
<http://www.fitrix.com>

Corporate: (770) 432-7623
Fax: (770) 432-3447
E-mail: sales@fitrix.com

Copyright (c) 1988-2020 - Fourth Generation Software Solutions Corporation - All rights reserved.
No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated.

Table of Contents

Chapter 1..... 5

Introduction to Capacity Requirements Planning 5

 Multiple User-Defined Scheduling Intervals 7

 Multiple Warehouse Scheduling 7

 Before You Begin..... 7

 Setup 8

 Finite/Infinite Scheduling 8

 Inquiry Review 8

Setup Capacity Requirements Planning 10

 Period Intervals 11

 Work Center/Warehouse Maintenance 13

 Capacity in Hours/Day 15

 Queue Time in Hours – This column is reserved for future use 15

 Department/Warehouse Maintenance..... 17

 Capacity in Hours/Day 18

 Period-to-Date Costs 19

 Year-to-Date Costs..... 19

 System Dates 20

 Machine/Warehouse Maintenance..... 21

 Queue Time in Hours – These columns are reserved for future use. 23

 Capacity in Hours/Day 23

 Machine Statistics 24

 Team/Warehouse Maintenance 26

 Capacity in Hours/Day 27

 Work Center Capacity Overrides 28

 Department Capacity Overrides 30

Machine Capacity Overrides	32
Team Capacity.....	33
Setup Capacity Requirements Planning	34
Chapter 3.....	35
Processing.....	35
Chapter 4.....	40
Inquiries	40
Capacity/Load by Department.....	41
Capacity/Load by Work Center.....	45
Capacity/Load by Machine	49
Capacity Load by Team.....	52
Index	56

Chapter 1

Introduction to Capacity Requirements Planning

This chapter contains basic information about Fitrix Capacity Requirements Planning. It is meant to give you a general picture of what the module can do and how it is used. The sections that address this are as follows:

- General description of the Fitrix Capacity Requirements Planning module
- Features of Fitrix Capacity Requirements Planning
- Overview of Capacity Requirements Planning

General Description

Capacity Requirements Planning uses the labor routings on open and planned production orders to generate schedules for planning the execution of manufacturing work. The purpose of the module is to supply production management with the tools needed to ensure that orders are executed in the proper sequence, and highlight areas where plant capacities are under- or over-utilized.

Labor routings contain information for labor and machine hours to be executed, including:

- Run, setup and machine hours required per unit, and for the quantity ordered
- Expected start and completion dates
- Resources to be used, such as departments, work centers, machines and teams

Labor routing steps are organized by production resource to present a list of work to be performed at the resource, in a user-defined priority sequence. Total labor and machine hours for open and planned production orders are also compared to the capacity available at the required resources to support management review and rescheduling.

Features

Multiple Resources per Routing Step

Each labor routing step can be associated with a department, work center, machine, and/or team. Any or all of these resources can be scheduled. These resources can be set up in a hierarchical form, where departments are composed of work centers, which are composed of machines, but this is not a requirement. Teams are typically managed separately and used in environments where the constraining resource is human labor.

Infinite Scheduling

Production Schedules are generated for a specific production facility (warehouse). Each facility can be set up to use Infinite or Finite Scheduling. When using Infinite Scheduling, the order's defined start date and due dates are used to create a load of hours for the steps within the order. These hours are summarized by resource and date, and compared to the hours available for the resource/date. The resulting comparison is used by production management to help them decide how best to use plant resources such as:

- Move open or planned orders from over-utilized resources to under-utilized alternate resources
- Expedite or defer open orders to stabilize the hours loaded against a resource
- Hire additional production staff or implement overtime programs to address team level over-commitments

The Override Capacity menu options can be used to adjust resource capacities on a daily basis to reflect whatever decisions are made.

Finite Scheduling

When using Finite Scheduling, orders are scheduled based on a user-defined priority. The priority can be one of the following:

- Production/Planned Order Due Date
- Order Critical Ratio – the ratio of time remaining vs work remaining
- Order Manual Priority – a management-defined value from 1 to 9

The order with the highest priority is scheduled first. Each labor step's remaining hours are 'loaded' onto the associated resource and, based on the resource's capacity, a due date is calculated. The due date is then used as the start date for the next labor step on the order. After each step is analyzed, a resulting 'Scheduled Due Date' is calculated for the order. The next order in the priority sequence is then loaded in the same way. Each order is then assigned a system-generated due date for comparison to the originally defined due date.

Upon completion of the scheduling option, the Capacity vs Load Inquiries can be used to see the effect on resources. Adjustments can be made to increase or decrease capacity using the Capacity Override options to calculate new start and completion dates on subsequent rescheduling runs.

Graphical Capacity

The results of a scheduling process are presented in a graphical format for analysis and highlight of any bottleneck resources. The analysis can be done at any of the resource levels already noted (department, work center, machine or team). Load vs capacity for any resource can be presented in a daily, weekly, biweekly, semi-monthly, monthly or quarterly basis. Within each time period, drill-downs show the details by order and labor routing step. Time periods are also color-coded to quickly show resources that are over-committed (red), approaching full commitment (yellow), or under committed (green).

Multiple User-Defined Scheduling Intervals

Production scheduling details can be summarized into one or more time period formats for easy review and analysis. The details of resource load and capacity can be accumulated into user-defined time periods. The time periods can be analyzed for exceptions first and then details can be researched using drill down functions. The time periods can be daily, weekly, bi-weekly, 4-weekly, monthly, quarterly, or combinations of these frequencies. In addition, multiple 'period interval templates' may be created to satisfy the needs of users at different levels within the organization.

Multiple Warehouse Scheduling

Each warehouse within Fitrix Inventory Control is also defined as a Production Facility. Production Scheduling manages each facility individually. Each facility can also be managed via Finite or Infinite Scheduling

Overview

Before You Begin

Before you can use Capacity Requirements Planning, you must first complete "setup" of the module. Setup is the process by which you enter all of the information required to begin processing schedules. Setup includes entry of basic "control" information that the programs need to run, and entry of special parameters for each resource.

Scheduling-related activities can be divided into four broad categories: scheduling setup, scheduling runs, and reviews via inquiry programs. Each activity is associated with a specific menu option, and these options are listed for quick reference in this overview section. (The "keystroke path" to a menu option is indicated in parentheses following each option.)

Setup

There are three aspects of setup: Company Setup, Capacity Requirements Planning setup, and Resource setup.

Company setup includes entering basic control information that the programs need to run, such as company information and administrative information. This setup is covered in the *Getting Started with Fitrix User Guide*. Because the menu options used for company and administration pertain to the company as a whole, the menu options used to do this initial company setup are located under the General/Administrative menu (option 8). You only need to perform this setup procedure once for all modules in Fitrix ERP.

Capacity Requirements Planning setup is performed from the File Maintenance submenu in Capacity Requirements Planning. Here you will identify default information used by the reports and inquiries when they are used.

Resource Setup starts in the Standard Routing, where you define Work Centers, Departments, Machines and Teams, along with their respective daily shift capacities, in hours per day. Then, you associate the resources with the production facilities, with resource/warehouse maintenance options, from either Standard Routing, Production Scheduling, or Capacity Requirements Planning. Lastly, you can define daily capacity overrides, where the shift capacity for a resource on specific dates differs from the default set up in the resource/warehouse maintenance.

Finite/Infinite Scheduling

After setup is complete, you can begin running the scheduling functions, and review the results. The scheduling functions are executed from the Processing submenu in Capacity Requirements Planning. You determine ahead of time, for each production facility, if you want to Finitely or Infinitely Schedule. It is recommended that you use Infinite Scheduling at first to see how your resource capacities compare to actual load and not use the system to automatically calculate new operation and order due dates.

Inquiry Review

Scheduling data can be reviewed in a variety of formats, groupings, and sequences. Inquiries let you analyze by Department, Work Center, Machine, and Team. The inquiries display the current status of specific resources by comparing their capacity in hours to the load from open orders. The capacity/load is divided into user-defined time periods (days, weeks, months, etc.) to show summarized comparisons, with drill-down capability to see the individual orders and labor steps that make up the load.

The inquiries available are:

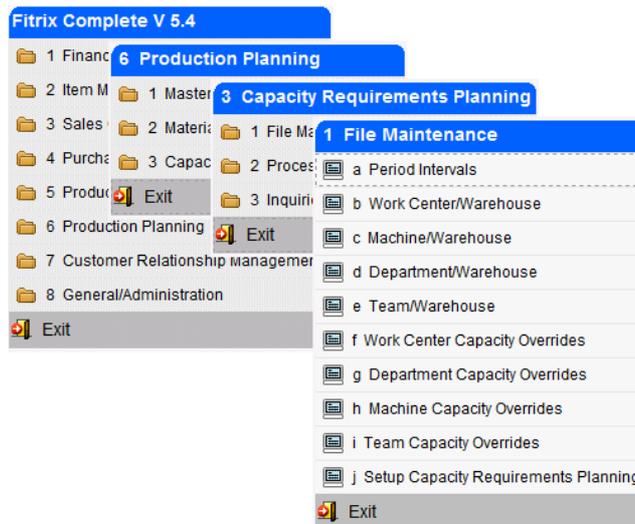
- Capacity Load by Department (6-3-3-a)
- Capacity Load by Work Center (6-3-3-b)
- Capacity Load by Machine (6-3-3-c)
- Capacity Load by Team (6-3-3-d)

Chapter 2

Setup Capacity Requirements Planning

In this chapter you will learn to set up the information needed to assist in scheduling production which includes:

- Period Intervals
- Work Center/Warehouse
- Machine/Warehouse
- Department/Warehouse
- Team/Warehouse
- Work Center Capacity Overrides
- Department Capacity Overrides
- Machine Capacity Overrides
- Team Capacity Overrides
- Setup Capacity Requirements Planning



Period Intervals

This menu option is used to setup and maintain the Period Intervals, used by Capacity Requirements Planning Inquiries to place future capacity and load into user-defined time periods. You can define multiple period intervals, and then assign a default Interval in the Setup Capacity Requirements Planning menu option. When running inquiries and reports, you may be prompted to enter an Interval Code, or use the default value.

NOTE: Period Intervals are also used by Material Planning, Master Scheduling, and Production Scheduling, in inquiries and reports, for the same purpose.

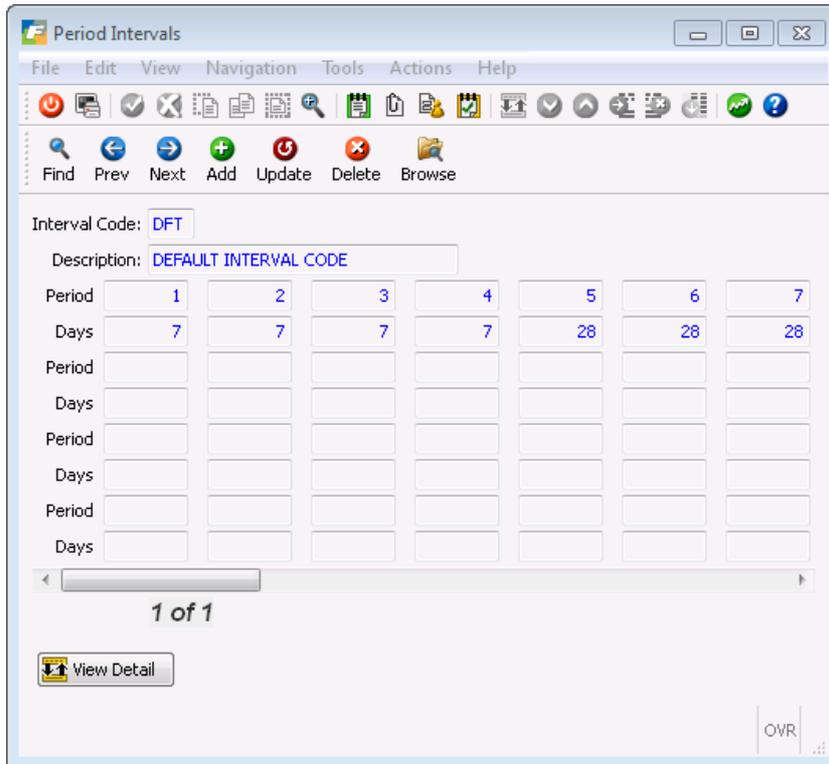
For example:

- Period interval code 'A' could use the following periods:
 - 8 weekly intervals
 - 4 biweekly intervals
 - 3 quarterly intervals

This setup would allow the user to view capacity and load for the next year (approximately). The nearer term plan would be displayed in weekly intervals. The periods would then become larger as the activity moves farther out.

- Interval code 'B' could use the following periods:
 - 52 weekly buckets

This would display all schedule data for the next year on weekly intervals.



The Period Interval screen contains the following fields:

- *Interval Code* - This field stores a unique three-character order type code.
- *Description* - You enter a description of this period interval (up to 30 characters) in this field.

One or more periods must be defined:

- *Period* – Period numbers are automatically assigned by the system. You are allowed to have up to 100 periods per period interval.
- *Days* – Enter the number of days in for the period. This value should be entered as either 1 (daily) or in multiples of 7 (for 1 or more weeks). This achieves a consistent division of time periods into multiples of weeks.

Work Center/Warehouse Maintenance

Use this menu option to enter and maintain the information to describe the work centers for a specific warehouse. If you want a work center to apply to all warehouses you should enter the information using the Work Center Master Maintenance menu option. If you defined work centers using the Master Maintenance option and then use this option, the information entered here will affect only the warehouse being defined in this table.

A work center is a specific production facility consisting of one or more people and /or machines with similar characteristics. They can be considered a group for purposes of capacity requirements planning, standard and actual costing, and detailed scheduling.

Work Center

Required

The identifier for the work center.

Warehouse

The identifier for the warehouse in which this work center exists. To view a list of warehouses, click on the magnifying glass

Status

Required

Default

Active- indicates that this work center is active. An active work center will be used in the scheduling and costing routines. Time can be reported against routing steps in an active work center.

Inactive - indicates that this work center is inactive. No transactions or processing can be performed for an inactive work center.

Description

Required

The 25 character description for this work center.

Department

The identifier of the department with which this work center could be associated. To view a list of departments, click on the magnifying glass.

Type - This column is reserved for future use

Direct - indicates that costs incurred in this work center are normally direct labor.

Indirect - indicates that the costs incurred in this work center are normally indirect labor.

Subcontract - indicates that the costs incurred in this work center are normally subcontract labor.

Number of Machines

The number of machines in this work center. This number is used as a general reference.

Number of Workers

The number of workers in this work center. This number is used as a general reference.

Rough Cut Resource

Reserved for future use with the Fitrix Master Schedule Planning module.

Rough Cut Conversion

Reserved for future use with the Fitrix Master Schedule Planning module.

Capacity in Hours/Day

Shift 1

This is the standard capacity of the work center in hours per day for the first shift.

Shift 2

This is the standard capacity of the work center in hours per day for the second shift.

Shift 3

This is the standard capacity of the work center in hours per day for the third shift.

Queue Time in Hours – This column is reserved for future use

Standard

The standard (expected) amount of time, in hours, a job waits at a work center before setup or work is performed on the job. This is one element of total manufacturing lead time.

Average

The average amount of time, in hours, a job waits at a work center before setup or work is performed on the job.

Labor Rate

The labor rate for this work center. This labor rate is used when calculating the current standard cost of an item. Setup hours and labor hours can use this rate to calculate setup and labor costs.

Overhead Rate

The overhead rate for this work center. This overhead rate is used when calculating the current standard cost of an item. Setup hours, labor hours and machine hours can use this rate to calculate standard overhead costs.

Date Added

Display Only

The date that this record was added to the table.

Change Date

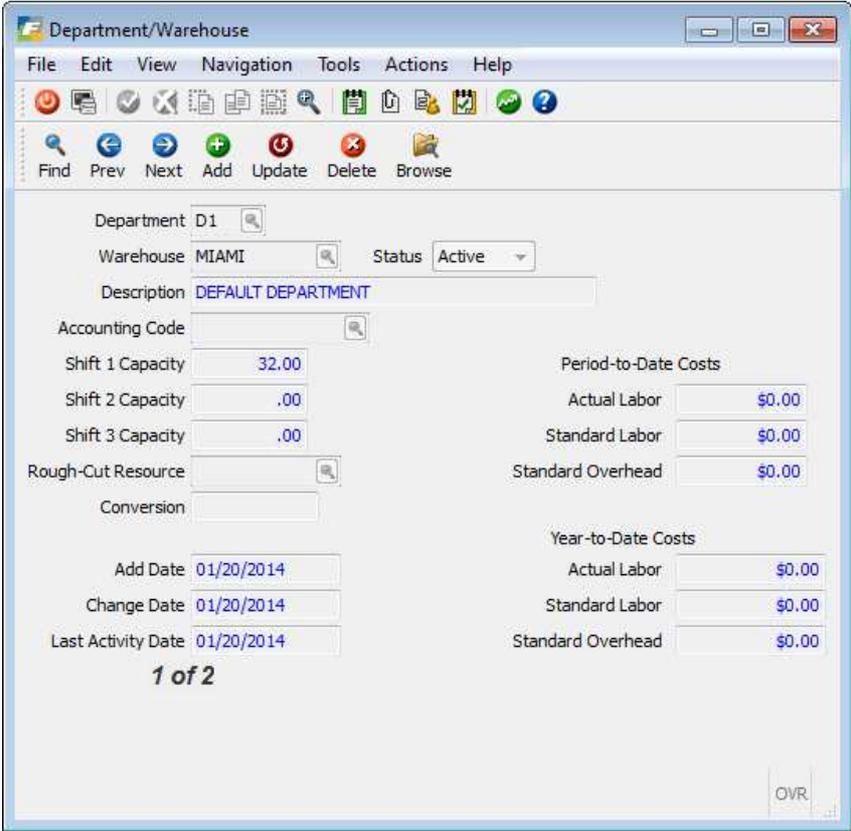
Display Only

The last date that this item was changed.

Department/Warehouse Maintenance

Use this menu option to enter and maintain the information to describe the department for a specific warehouse. If you want a department to apply to all warehouses you should enter the information using the Department Master Maintenance menu option. If you defined departments using the Master Maintenance option and then use this option, the information entered here will affect only the warehouse being defined in this table.

A department can be a collection of work centers. Departments are used in the Actual Costing application to generate the appropriate accounting entries to General Ledger. They are also used in Production Scheduling to analyze load and capacity at a departmental level.



Department *Required*

The identifier for the department.

Warehouse

The identifier for the warehouse in which this department exists. To view a list of departments, click on the magnifying glass.

Status

Required

Default

Active - indicates that this department is active. An active department will be used in the scheduling routines. Time can be reported against routing steps in an active department.

Inactive - indicates that this department is inactive. No transactions or processing can be performed for an inactive department.

Description

Required

The 25 character description for this department.

Account Code

A code to assign general ledger account numbers to a department. The account code references a table that contains the general ledger account numbers. To view a list of account codes, click on the magnifying glass.

Capacity in Hours/Day

Shift 1

The standard capacity of the department in hours per day for the first shift.

Shift 2

The standard capacity of the department in hours per day for the second shift.

Shift 3

The standard capacity of the department in hours per day for the third shift.

Rough Cut Resource

Reserved for future use with the Fitrix Master Schedule Planning module.

Rough Cut Conversion

Reserved for future use with the Fitrix Master Schedule Planning module.

Period-to-Date Costs

Actual Labor *Display Only*

The total of all the actual labor costs for the department during the current period. This field will be set to zero during period end in the Actual Costing application.

Standard Labor *Display Only*

The total of all the standard labor costs for the department during the current period. This field will be set to zero during period close in the Actual Costing application.

Standard Overhead *Display Only*

The total of all the standard overhead costs for the department during the current period. This field will be set to zero during period close in the Actual Costing application.

Year-to-Date Costs

Actual Labor *Display Only*

The total of all the actual labor costs for the department year to date. This field will be set to zero during year end close in the Actual Costing application.

Standard Labor *Display Only*

The total of all the standard labor costs for the department year to date. This field will be set to zero during year end close in the Actual Costing applications.

Standard Overhead *Display Only*

The total of all the standard overhead costs for the department year to date. This field will be set to zero during year end close in the Actual Costing applications.

System Dates

Add Date *Display Only*

The date that this department was added to the table.

Change Date *Display Only*

The date the department was last maintained.

Last Activity Date *Display Only*

The last date the department had activity reported against it.

Machine/Warehouse Maintenance

Use this menu option to enter and maintain the information to describe the machine for a specific warehouse. If you want a machine to apply to all warehouses you should enter the information using the Machine Master Maintenance menu option. If you defined machines using the Master Maintenance option and then use this option, the information entered here will affect only the warehouse being defined in this table.

The screenshot shows a software window titled "Machine/Warehouse" with a menu bar (File, Edit, View, Navigation, Tools, Actions, Help) and a toolbar with icons for Find, Prev, Next, Add, Update, Delete, and Browse. The main area contains the following fields:

Machine	SCR1	Status	Active
Warehouse	MIAMI		
Description	SCREEN PRINT 1		
Work Center	SCRN		
Department	DP1	Standard Queue Time	1.0000
Acquired Date	09/27/2010	Average Queue Time	1.0000
Vendor	123457	Shift 1 Capacity	8.00
Purchase Order	0291	Shift 2 Capacity	8.00
Cost Amount	\$5000.00	Shift 3 Capacity	0.00
Minimum Service Int	0	Last Repair Date	09/27/2010
Major Service Int	0	Last Activity Date	
Expected Life Years	8.00	Rough_Cut Resource	
Total Hours Used	0.00	Conversion	
YTD Hours Used	0.00	Add Date	09/27/2010
Cuml Maintenance Cost	\$0.00	Change Date	03/01/2013

At the bottom of the form, it displays "1 of 4" and an "OVR" button.

Machine identifier *Required*

The identifier for the machine that is being defined.

Warehouse

The identifier for the warehouse in which this work center exists. To view a list of warehouses, click on the magnifying glass.

Status

Required

Default

Active - indicates that the status of this machine is active. An active machine will be used in the scheduling routines. Time can be reported against routing steps for an active machine.

Inactive - indicates that the status of this machine is inactive. No transactions or processing can be performed against an inactive machine.

Description

Required

The identifier for the machine that is being defined.

Work Center

Required

The identifier for the work center with which this machine could be associated. To view a list of work centers, click on the magnifying glass.

Department

The identifier for the department with which this machine could be associated. To view a list of departments, click on the magnifying glass.

Acquired Date

The date that this machine was put into service.

Vendor

The identifier for the vendor from which the machine was purchased. This field is for reference only. To view a list of vendors, click on the magnifying glass.

Purchase Order

The purchase order number that was used to buy this machine. This field is for reference only.

Cost Amount

The price paid to buy this machine. This field is for reference only.

Minimum Service Int.

The number of hours of run time between minor maintenance service. This field is for reference only.

Major Service Int.

The number of hours of run time between major maintenance service. This field is for reference only.

Expected Life Years

The number of years this machine is expected to be in service. This field is for reference only.

Queue Time in Hours – These columns are reserved for future use.

Standard

The standard (expected) amount of time, in hours, a job waits at a machine before setup or work is performed on the job. This is one element of total manufacturing lead time.

Average

The average amount of time, in hours, a job waits at a machine before setup or work is performed on the job.

Capacity in Hours/Day

Shift 1

This is the standard capacity of the machine in hours per day for the first shift.

Shift 2

This is the standard capacity of the machine in hours per day for the second shift.

Shift 3

This is the standard capacity of the machine in hours per day for the third shift.

Machine Statistics

Total Hours Used *Display Only*

The number of hours this machine was used. This field is updated by the labor processing transactions.

YTD Hours Used *Display Only*

The number of hours this machine was used year to date. This field is updated by the labor processing transactions.

Cuml Maintenance Cost *Display Only*

The accumulated costs for maintenance since the machine was put into service.

Last Maintenance Type *Display Only*

This field is reserved for future use.

Last Repair Date *Display Only*

This field is reserved for future use.

Last Activity Date *Display Only*

The last date that this record was updated by transaction processing.

Rough Cut Resource

Reserved for future use with the Fitrix Master Schedule Planning module.

Rough Cut Conversion

Reserved for future use with the Fitrix Master Schedule Planning module.

Add Date *Display Only*

The date that this record was added to the table.

Change Date

Display Only

The date the machine was last changed by maintenance.

Team/Warehouse Maintenance

Use this menu option to enter and maintain the information to describe the team for a specific warehouse. If you want a team to apply to all warehouses you should enter the information using the Team Master Maintenance menu option. If you defined teams using the Master Maintenance option and then use this option, the information entered here will affect only the warehouse being defined in this table.

Team/Warehouse

File Edit View Navigation Tools Actions Help

Find Prev Next Add Update Delete Browse

Team TM001

Warehouse MIAMI

Description WELDING TEAM

Shift 1 Capacity 8.00

Shift 2 Capacity 8.00

Shift 3 Capacity 8.00

Rough-Cut Resource

Conversion

Date Added 07/31/2014

Date Changed

(New Document)

OVR

Team Number *Required*

The identifier for the team that is being defined.

Warehouse

The identifier for the warehouse in which this team exists. To view a list of warehouses, click on the magnifying glass.

Description *Required*

The description for the team.

Capacity in Hours/Day

Shift 1

This is the standard capacity of the team in hours per day for the first shift.

Shift 2

This is the standard capacity of the team in hours per day for the second shift.

Shift 3

This is the standard capacity of the team in hours per day for the third shift.

Rough Cut Resource

Reserved for future use with the Fitrix Master Schedule Planning module.

Rough Cut Conversion

Reserved for future use with the Fitrix Master Schedule Planning module.

Date Added

Display Only

The date that this record was added to the table.

Date Maintained

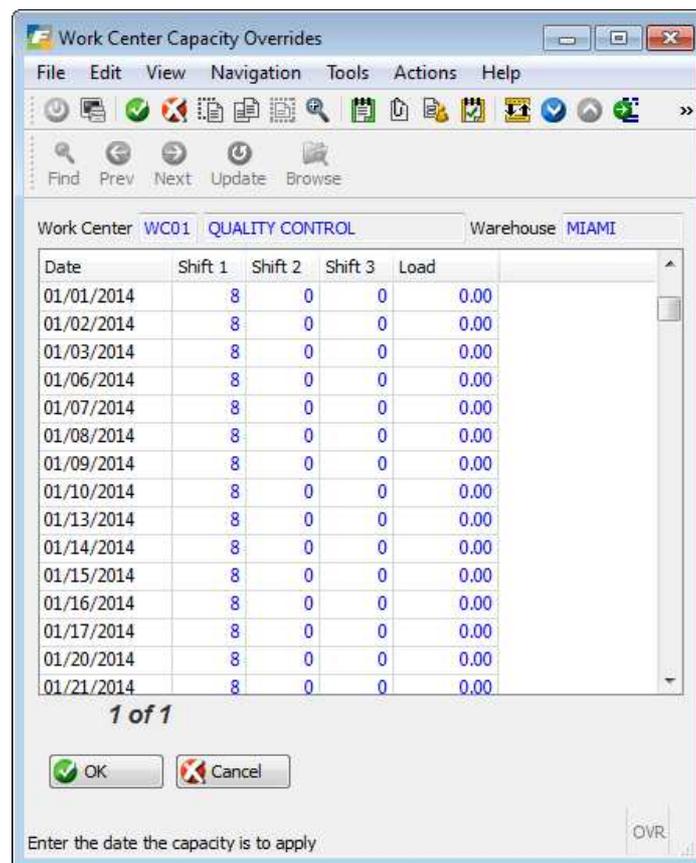
Display Only

The date that this team was last maintained.

Work Center Capacity Overrides

Use this menu option to enter and maintain specific dates when the work center/warehouse will have a capacity that differs from the default capacities for any of the three shifts. This is useful for adding or changing capacities to address over-commitments on a short-term basis.

To enter new date overrides, change existing overrides, or delete overrides, you must first click the Find option, then enter a valid work center and warehouse, then click OK. A screen similar to the following will display.



Date – the working date to be overridden. To enter a new date, use either the F1 key to insert a new line, or move the cursor to the end of the list, to a new blank line, and enter the date and hours. To change the hours for an existing date, move the cursor to the date and enter a new value for hours. To remove an override, move the cursor to the existing date, and press F2. This will remove the date, and revert back to the default hours for that date.

Shift 1 – The overriding hours for shift 1 for the date

Shift 2 - The overriding hours for shift 2 for the date. If shift 2 is not used, enter zero here

Shift 3 - The overriding hours for shift 3 for the date. If shift 3 is not used, enter zero here

Load - A general reference to the load in hours for this date, from the last Order Reschedule operation . The load is updated by the Finite and Infinite Scheduling functions. It is the sum of labor routing step hours to be completed on that date, based on the start and due dates of the routing steps.

Department Capacity Overrides

Use this menu option to enter and maintain specific dates when the department/warehouse will have a capacity that differs from the default capacities for any of the three shifts. This is useful for adding or changing capacities to address over-commitments on a short-term basis.

To enter new date overrides, change existing overrides, or delete overrides, you must first click the Find option, then enter a valid department and warehouse, then click OK. A screen similar to the following will display.

The screenshot shows a software window titled "Department Capacity Overrides". It has a menu bar with "File", "Edit", "View", "Navigation", "Tools", "Actions", and "Help". Below the menu is a toolbar with icons for "Find", "Prev", "Next", "Update", and "Browse". The window displays a table with the following data:

Date	Shift 1	Shift 2	Shift 3	Load
01/01/2014	0	0	0	0.00
01/02/2014	40	0	0	0.00
01/03/2014	0	0	0	0.00
01/06/2014	20	0	0	0.00
01/07/2014	0	0	0	0.00
01/08/2014	0	0	0	0.00
01/09/2014	0	0	0	0.00
01/10/2014	0	0	0	0.00
01/13/2014	0	0	0	0.00
01/14/2014	0	0	0	0.00
01/15/2014	0	0	0	0.00
01/16/2014	0	0	0	0.00
01/17/2014	0	0	0	0.00
01/20/2014	0	0	0	0.00
01/21/2014	0	0	0	0.00

Below the table, it says "2 of 2" and there is a "View Detail" button. The window also shows "Department D1", "DEFAULT DEPARTMENT", and "Warehouse SEATTLE".

Date – the working date to be overridden. To enter a new date, use either the F1 key to insert a new line, or move the cursor to the end of the list, to a new blank line, and enter the date and hours. To change the hours for an existing date, move the cursor to the date and enter a new value for hours. To remove an override, move the cursor to the existing date, and press F2. This will remove the date, and revert back to the default hours for that date.

Shift 1 – The overriding hours for shift 1 for the date

Shift 2 - The overriding hours for shift 2 for the date. If shift 2 is not used, enter zero here

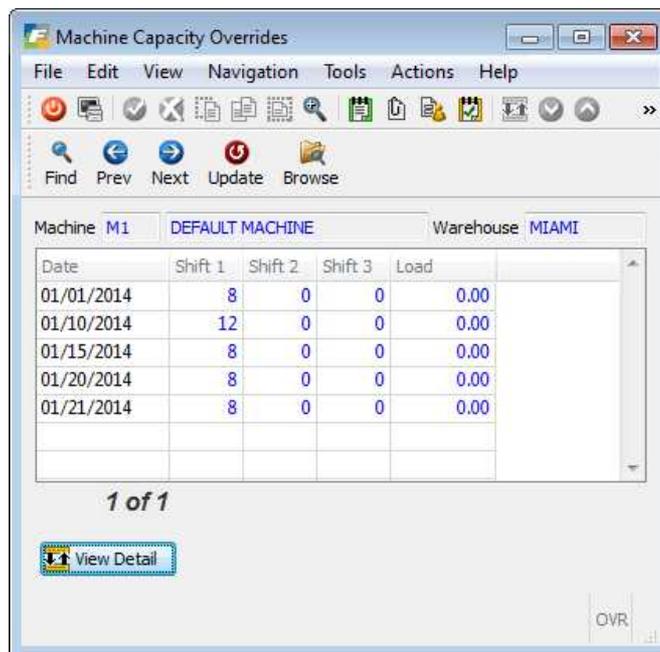
Shift 3 - The overriding hours for shift 3 for the date. If shift 3 is not used, enter zero here

Load - A general reference to the load in hours for this date, from the last Order Reschedule operation . The load is updated by the Finite and Infinite Scheduling functions. It is the summ of labor routing step hours to be completed on that date, based on the start and due dates of the routing steps.

Machine Capacity Overrides

Use this menu option to enter and maintain specific dates when the machine/warehouse will have a capacity that differs from the default capacities for any of the three shifts. This is useful for adding or changing capacities to address over-commitments on a short-term basis.

To enter new date overrides, change existing overrides, or delete overrides, you must first click the Find option, then enter a valid machine and warehouse, then click OK. A screen similar to the following will display.



Date – the working date to be overridden. To enter a new date, use either the F1 key to insert a new line, or move the cursor to the end of the list, to a new blank line, and enter the date and hours. To change the hours for an existing date, move the cursor to the date and enter a new value for hours. To remove an override, move the cursor to the existing date, and press F2. This will remove the date, and revert back to the default hours for that date.

Shift 1 – The overriding hours for shift 1 for the date

Shift 2 - The overriding hours for shift 2 for the date. If shift 2 is not used, enter zero here

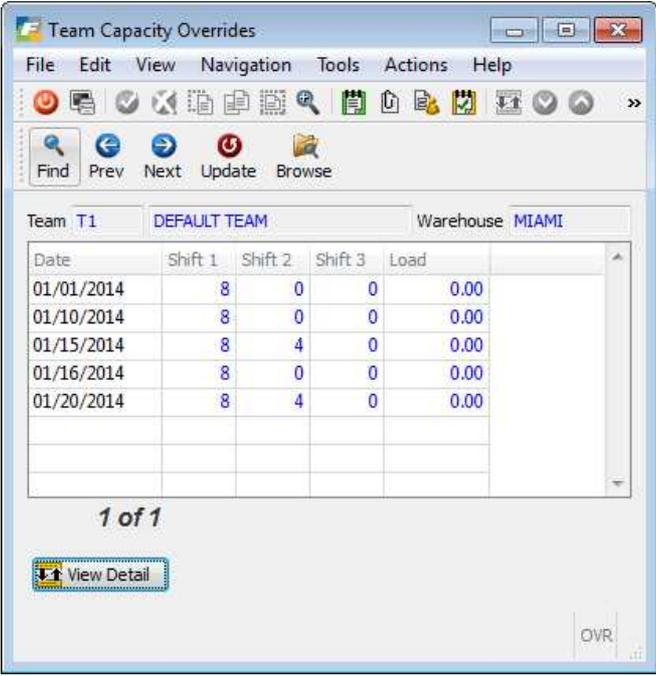
Shift 3 - The overriding hours for shift 3 for the date. If shift 3 is not used, enter zero here.

Load - A general reference to the load in hours for this date, from the last Order Reschedule operation . The load is updated by the Finite and Infinite Scheduling functions. It is the summ of labor routing step hours to be completed on that date, based on the start and due dates of the routing steps.

Team Capacity

Use this menu option to enter and maintain specific dates when the team/warehouse will have a capacity that differs from the default capacities for any of the three shifts. This is useful for adding or changing capacities to address over-commitments on a short-term basis.

To enter new date overrides, change existing overrides, or delete overrides, you must first click the Find option, then enter a valid team and warehouse, then click OK. A screen similar to the following will display.



The screenshot shows a window titled "Team Capacity Overrides" with a menu bar (File, Edit, View, Navigation, Tools, Actions, Help) and a toolbar with icons for Find, Prev, Next, Update, and Browse. Below the toolbar, there are dropdown menus for "Team" (set to T1), "DEFAULT TEAM", and "Warehouse" (set to MIAMI). The main area contains a table with the following data:

Date	Shift 1	Shift 2	Shift 3	Load
01/01/2014	8	0	0	0.00
01/10/2014	8	0	0	0.00
01/15/2014	8	4	0	0.00
01/16/2014	8	0	0	0.00
01/20/2014	8	4	0	0.00

Below the table, it says "1 of 1" and there is a "View Detail" button. In the bottom right corner, there is a label "OVR".

Date – the working date to be overridden. To enter a new date, use either the F1 key to insert a new line, or move the cursor to the end of the list, to a new blank line, and enter the date and hours. To change the hours for an existing date, move the cursor to the date and enter a new value for hours. To remove an override, move the cursor to the existing date, and press F2. This will remove the date, and revert back to the default hours for that date.

Shift 1 – The overriding hours for shift 1 for the date

Shift 2 - The overriding hours for shift 2 for the date. If shift 2 is not used, enter zero here

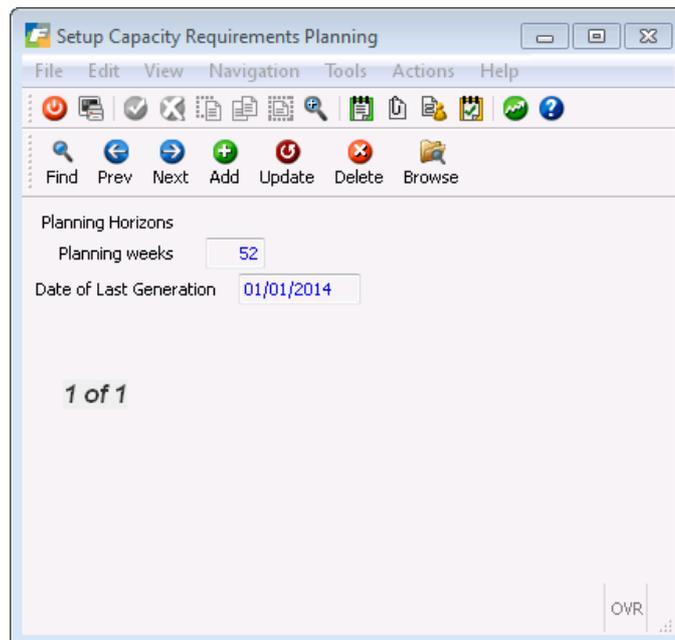
Shift 3 - The overriding hours for shift 3 for the date. If shift 3 is not used, enter zero here.

Load - A general reference to the load in hours for this date, from the last Order Reschedule operation . The load is updated by the Finite and Infinite Scheduling functions. It is the summ of

labor routing step hours to be completed on that date, based on the start and due dates of the routing steps.

Setup Capacity Requirements Planning

Use this menu option to setup and change the application controls for capacity requirements planning.



Planning Horizon Weeks

The number of weeks from the planning start date for which to consider planned orders to be capacity planned.

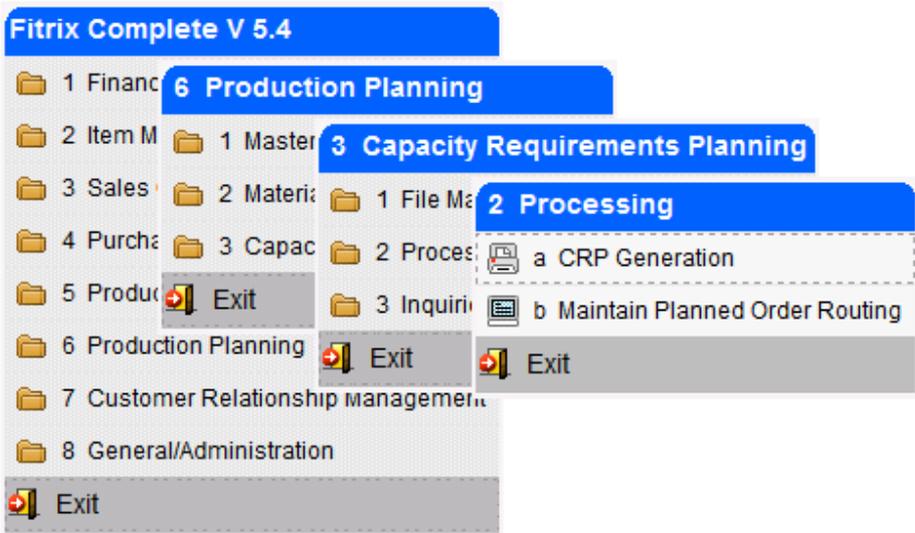
Date of Last Generation

The last date on which a Capacity Planning generation was performed

Chapter 3

Processing

- In this chapter you will learn about the order scheduling methods in Production Scheduling
 - CRP Generation
 - Maintain Planned Order Routing



CRP Generation

This menu option is used to generate the labor load from planned production orders. The standard routing for each planned order is used to create a series of labor steps. The start and end date for each labor step, along with the planned order quantity and standard labor hours to complete creates load detail that can be used later to determine if the routing's associated resources (Work Centers, Departments, Machines, Teams) have the capacity to produce the planned load.

The CRP generation uses Infinite Scheduling logic to calculate operation start and end dates. The Fitrix Production Scheduling module has the ability to use either Finite or Infinite Scheduling, but the scheduling of planned orders in CRP uses only the Infinite technique.

The following screen displays:



Warehouse – Enter the production facility (warehouse) to be planned

Planning Date – Enter the beginning date for planned orders to be processed. The default is the current system date.

Planning Horizon in Weeks – Enter the number of weeks from the Planning Date for planned orders to be processed.

Date of Last Generation – This reference date shows the last date a CRP generation was executed.

The generation option creates a one-page report confirming the completion of the process for the selected warehouse:

```
07/31/2014 12:06:55          ABC MANUFACTURING          Page: 1
User: bettyb                CRP Generation                Pgm: cr202
=====
```

Selection Options

```
----- Generation Options -----
Warehouse MIAMI
Start Date 07/31/2014
End Date 07/30/2015
```

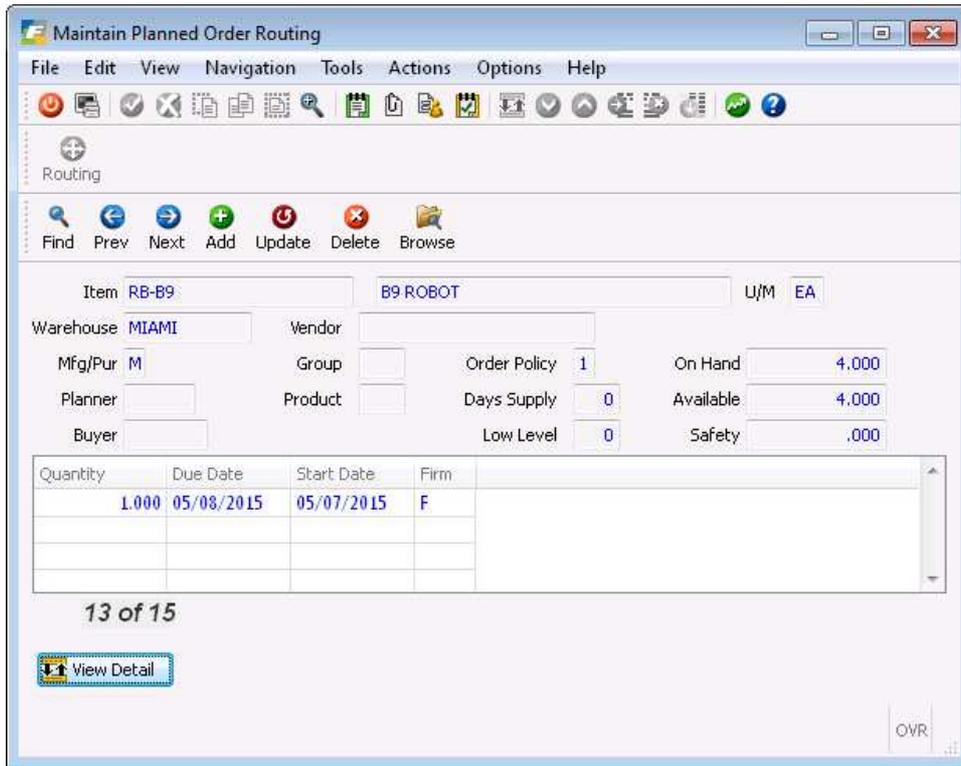
Date of Last Generation 01/01/2014

CRP Generation Completed at: 12:06:56

Maintain Planned Order Routing

This menu option is used to make changes to the routings that were previously generated for planned production orders. Each generated planned order includes the routing to produce the planned units. This option allows you to change the associated resources needed for one or more labor steps on a routing.

The following window displays:



Select the Find option and enter the search criteria to display items with planned orders. Then select Update to access the planned order(s) displayed on the lower portion of the screen. The following columns are displayed:

Quantity – The planned order quantity

Due Date – The planned order’s due date

Start Date – The date the planned order should be released to complete by the due date

Firm – Enter ‘F’ if this order should NOT be regenerated during an MRP generation. Leave blank to allow the order to be regenerated.

NOTE: If you change the planned order routing, but leave the Firm flag blank, a later MRP generation run will erase the routing changes.

To change a planned order’s routing, place the cursor on the desired order, and click the  button. The following window displays:

Sequence	Operation	Description	Department	Work Center	Machine	Team
1		ASSEMBLE HEAD		WC01		
2		ASSEMBLE TORSO		WC01		
3		ASSEMBLE LEG PACK		WC01		
4		QC AND TESTING		WC01		

Enter/change the operation. (Use Ctrl-z for a list.)

Sequence – The sequence defines the order in which the labor steps will be executed. You cannot change this value.

Operation – Standard Operations pre-define the department, work center, machine and/or team to use as defaults. If you have entered a Standard Operation in the Standard Routing module, you can enter its operation code here to pre-fill the rest of the values for the labor step.

Description – The description for the labor step. You cannot change this value

Department – Enter or select a valid department for the warehouse in which the planned order was created. You can click the  button to see a list of departments. This is an optional value.

Work Center – Enter or select a valid work center for the warehouse in which the planned order was created. You can click the  button to see a list of work centers. This is an optional value.

Machine – Enter or select a valid machine for the warehouse in which the planned order was created. You can click the  button to see a list of machines. This is an optional value.

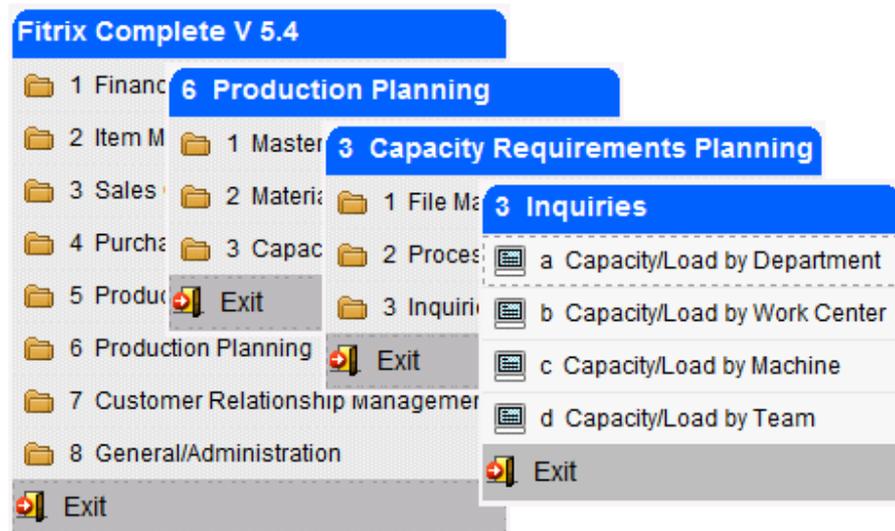
Team – Enter or select a valid team for the warehouse in which the planned order was created. You can click the  button to see a list of teams. This is an optional value.

Chapter 4

Inquiries

In this chapter we will cover the various inquiries available. These include

- Capacity vs Load by Department
- Capacity vs Load by Work Center
- Capacity vs Load by Machine
- Capacity vs Load by Team



Capacity/Load by Department

Use this menu option to view the capacity/load for all departments in a selected production facility (warehouse and it will default to the default warehouse in the Order Entry Defaults table). The departments are displayed with their description and a series of time period intervals representing the percentage load on the department. The time period data is expressed as a percent (load divided by capacity). If the load is greater than the capacity, the percent is displayed with a red background. If the load is approaching capacity, it is displayed in yellow, and if the load is low or not approaching capacity, it is displayed in green. The threshold levels for the yellow and green display are entered in the Setup Production Scheduling option.

The following screen displays:

The screenshot shows a window titled "Capacity/Load by Department" with a menu bar (File, Edit, View, Navigation, Tools, Actions, Help) and a toolbar. Below the toolbar, there are input fields for "Warehouse Code: MIAMI", "Start Date: 04/30/2014", and "Interval Code: A". The main area is a table titled "Percent Loaded" with columns for dates from 04/30 to 08/13 and rows for departments D1, D2, and DP2. The table shows percentage values for each date, with some cells highlighted in red, yellow, or green. At the bottom, there are buttons for "OK", "Cancel", "Oper Details", and "Alternates", and a status bar with "1 of 1" and "Enter percentage loaded".

Department	Description	04/30	05/07	05/14	05/21	05/28	06/04	06/11	06/18	06/25	07/02	07/09	07/16	07/23	07/30	08/06	08/13
D1	DEFAULT DEPARTMENT	35	123	61	22	197	95	255	33	23	170	33	26	0	15	0	0
D2	SECONDARY DEPARTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DP2	PRODUCTION OVERFLOW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Select the Find option and then enter:

Warehouse Code – enter the code for the production facility you want to view

Start Date – enter a starting date for time period intervals to display. Planned orders and open orders with hours remaining in their labor routing steps will be loaded into the time period intervals to the right. Each labor routing step's start and due date will be used to determine the time period interval to be loaded. The default value is the current system date.

Interval Code – Enter a time period interval to control how the remaining hours on planned and open orders will be displayed. The interval represents multiple time periods, each of which can be weekly, bi-weekly, monthly, semi-weekly, 4-weekly, or quarterly. The default is from the Setup Production Scheduling option.

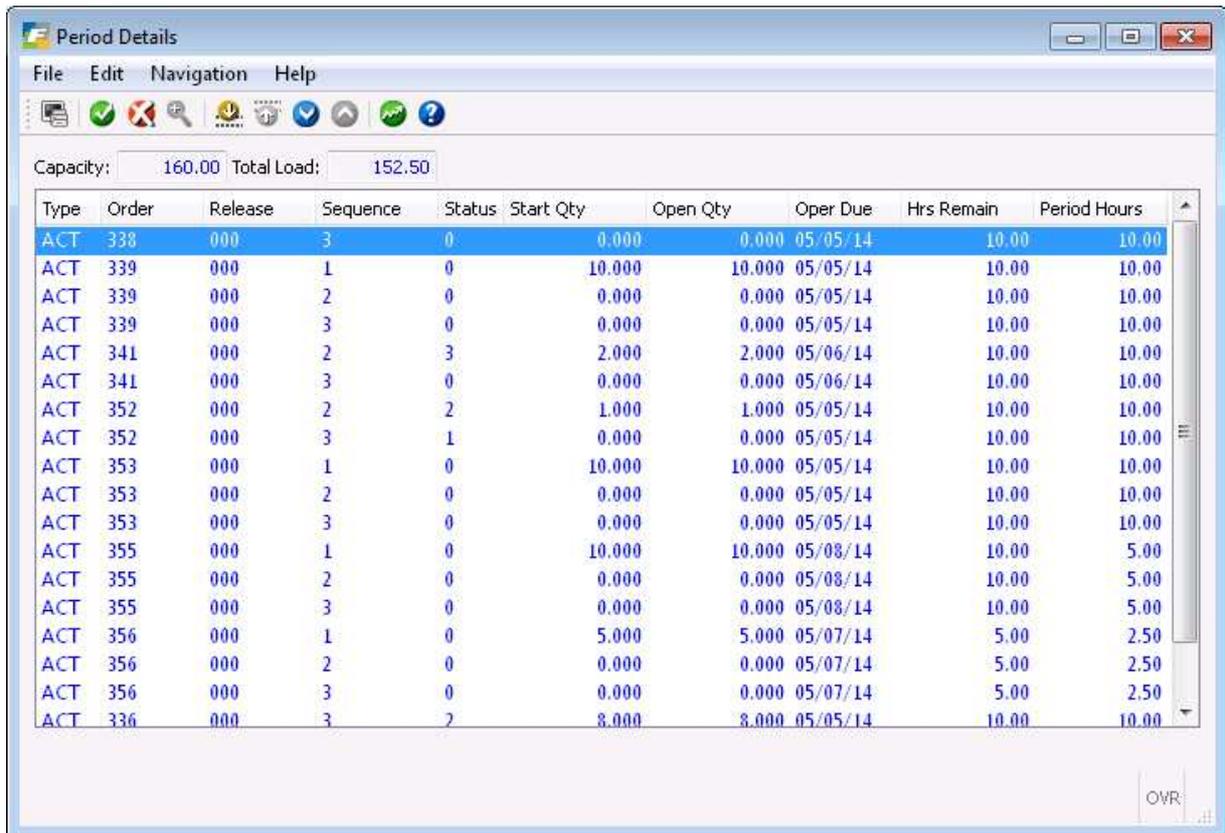
After you have selected the above values, click OK, and a list of departments will display for the facility. The columns are:

Department – the department in the facility

Description – the free-form description of the department.

Time Period Intervals – multiple columns are displayed representing time periods consistent with the Period Interval Chosen. If planned or open production orders have labor routing steps with start/due dates that are within the period start date columns, the associated department for the labor step is displayed for the matching column. If the department is over-committed for that time period (i.e. the department’s capacity for the time period is less than the total hours for all production order labor steps), it is displayed in red. If the department is approaching capacity for that time period, it is displayed in yellow. If the department has sufficient or excess capacity for the time period, it is displayed in green.

 **Oper Details** - To see the labor routing step details for all planned and open orders in a specific time period, click directly on the time period, then click this button. If no details exist for the time period, a message will display. The following screen displays:



Type	Order	Release	Sequence	Status	Start Qty	Open Qty	Oper Due	Hrs Remain	Period Hours
ACT	338	000	3	0	0.000	0.000	05/05/14	10.00	10.00
ACT	339	000	1	0	10.000	10.000	05/05/14	10.00	10.00
ACT	339	000	2	0	0.000	0.000	05/05/14	10.00	10.00
ACT	339	000	3	0	0.000	0.000	05/05/14	10.00	10.00
ACT	341	000	2	3	2.000	2.000	05/06/14	10.00	10.00
ACT	341	000	3	0	0.000	0.000	05/06/14	10.00	10.00
ACT	352	000	2	2	1.000	1.000	05/05/14	10.00	10.00
ACT	352	000	3	1	0.000	0.000	05/05/14	10.00	10.00
ACT	353	000	1	0	10.000	10.000	05/05/14	10.00	10.00
ACT	353	000	2	0	0.000	0.000	05/05/14	10.00	10.00
ACT	353	000	3	0	0.000	0.000	05/05/14	10.00	10.00
ACT	355	000	1	0	10.000	10.000	05/08/14	10.00	5.00
ACT	355	000	2	0	0.000	0.000	05/08/14	10.00	5.00
ACT	355	000	3	0	0.000	0.000	05/08/14	10.00	5.00
ACT	356	000	1	0	5.000	5.000	05/07/14	5.00	2.50
ACT	356	000	2	0	0.000	0.000	05/07/14	5.00	2.50
ACT	356	000	3	0	0.000	0.000	05/07/14	5.00	2.50
ACT	336	000	3	2	8.000	8.000	05/05/14	10.00	10.00

Capacity– The department’s capacity in hours, for the selected time period.

Total Load – The total hours for labor routing steps from planned or open orders, with start/due dates in this time period.

Type – ACT for active/open orders, PLN for planned orders

Order – the production order

Release – the production order release, for ACT type orders

Sequence – the labor routing step sequence

Status – the labor routing step status:

0 – production packet not printed

1 – not started, previous labor step not started

2 – not started, previous started

3 – not started, previous completed

4 – started

5 – completed

Start Quantity – the starting quantity for the labor step to complete

Open Quantity – the remaining quantity to be completed

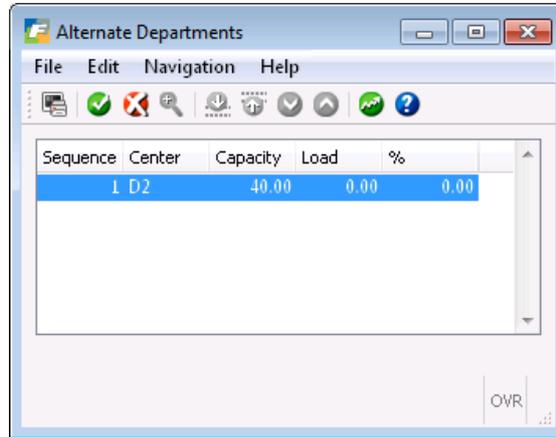
Oper Due – the current due date for the labor step

Hrs Remain – the hours remaining for the labor step to complete

Period Hours – the hours remaining within the current time period interval



- if any department is overloaded for a given time period place the cursor in the department/interval field and click on this button to see alternate departments.



The screen lists all departments defined as alternates to the current department. For the same time period, it displays the department's capacity and load, with a calculated percentage.

Capacity/Load by Work Center

Use this menu option to view the capacity/load for all work centers in a selected production facility (warehouse and it will default to the default warehouse in the Order Entry Defaults table).

The work centers are displayed with their description and a series of time period intervals representing the percentage load on the work center. The time period data is expressed as a percent (load divided by capacity). If the load is greater than the capacity, the percent is displayed with a red background. If the load is approaching capacity, it is displayed in yellow, and if the load is low or not approaching capacity, it is displayed in green. The threshold levels for the yellow and green display are entered in the Setup Production Scheduling option.

The following screen displays:

Work Ctr	Description	04/30	05/07	05/14	05/21	05/28	06/04	06/11	06/18	06/25	07/02	07/09	07/16	07/23	07/30	08/06	08/13
ASSY	GENERAL ASSEMBLY	288	217	210	77	18	83	907	117	78	378	117	93	0	38	0	0
MOLD	INJECTION MOLDING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
QC	QUALITY CONTROL	225	108	113	36	5	43	453	58	43	197	58	47	0	27	0	0
WC01	DEFAULT WORK CENTER	0	0	0	0	258	12	0	0	0	0	0	0	0	17	0	0

Select the Find option and then enter:

Warehouse Code – enter the code for the production facility you want to view

Start Date – enter a starting date for time period intervals to display. Planned and open orders with hours remaining in their labor routing steps will be loaded into the time period intervals to the right. Each labor routing step's start and due date will be used to determine the time period interval to be loaded. The default value is the current system date.

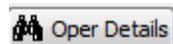
Interval Code – Enter a time period interval to control how the remaining hours on planned and open orders will be displayed. The interval represents multiple time periods, each of which can be weekly, bi-weekly, monthly, semi-weekly, 4-weekly, or quarterly. The default is from the Setup Production Scheduling option.

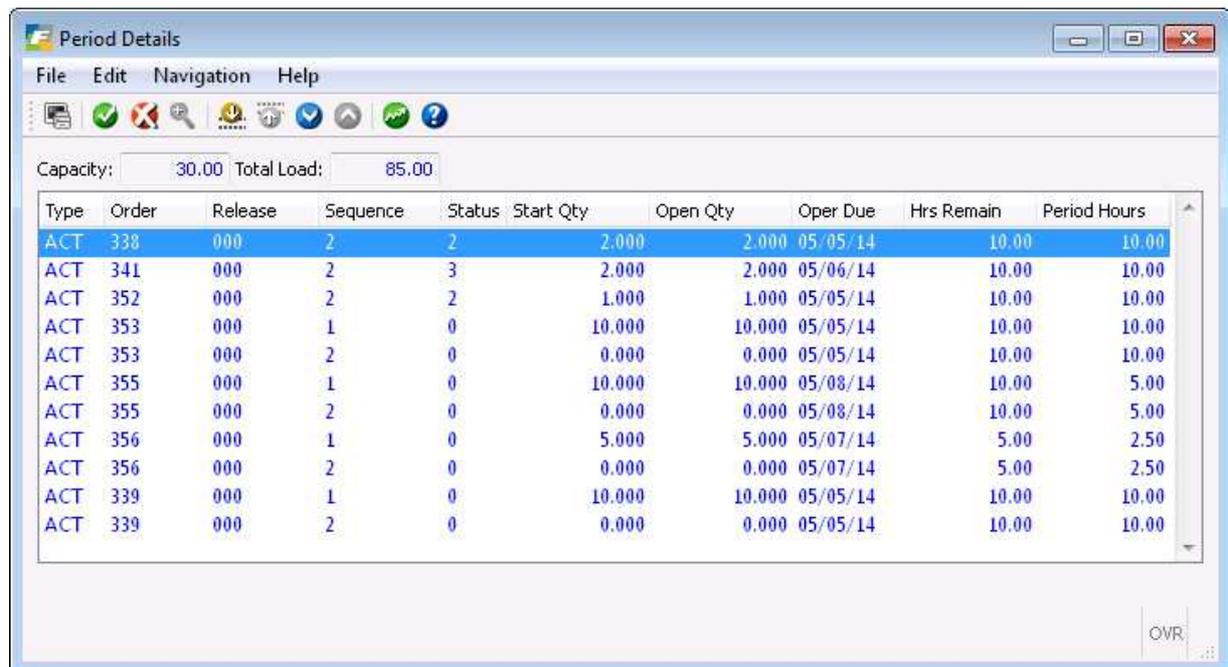
After you have selected the above values, click OK, and a list of work centers will display for the facility. The columns are:

Work Ctr – the work center in the facility

Description – the free-form description of the work center.

Time Period Intervals – multiple columns are displayed representing time periods consistent with the Period Interval Chosen. If planned or open production orders have labor routing steps with start/due dates that are within the period start date columns, the associated work center for the labor step is displayed for the matching column. If the work center is over-committed for that time period (ie the work center’s capacity for the time period is less than the total hours for all production order labor steps), it is displayed in red. If the work center is approaching capacity for that time period, it is displayed in yellow. If the work center has sufficient or excess capacity for the time period, it is displayed in green.

 - To see the labor routing step details for all orders in a specific time period, click directly on the time period, then click this button. If no details exist for the time period, a message will display. The following screen displays:



Type	Order	Release	Sequence	Status	Start Qty	Open Qty	Oper Due	Hrs Remain	Period Hours
ACT	338	000	2	2	2.000	2.000	05/05/14	10.00	10.00
ACT	341	000	2	3	2.000	2.000	05/06/14	10.00	10.00
ACT	352	000	2	2	1.000	1.000	05/05/14	10.00	10.00
ACT	353	000	1	0	10.000	10.000	05/05/14	10.00	10.00
ACT	353	000	2	0	0.000	0.000	05/05/14	10.00	10.00
ACT	355	000	1	0	10.000	10.000	05/08/14	10.00	5.00
ACT	355	000	2	0	0.000	0.000	05/08/14	10.00	5.00
ACT	356	000	1	0	5.000	5.000	05/07/14	5.00	2.50
ACT	356	000	2	0	0.000	0.000	05/07/14	5.00	2.50
ACT	339	000	1	0	10.000	10.000	05/05/14	10.00	10.00
ACT	339	000	2	0	0.000	0.000	05/05/14	10.00	10.00

Capacity– The work center’s capacity in hours, for the selected time period.

Total Load – The total hours for labor routing steps fro planned or open production orders, with start/due dates in this time period.

Type – ACT for active/open orders, PLN for planned orders

Order – the production order

Release – the production order release, for ACT type orders

Sequence – the labor routing step sequence

Status – the labor routing step status:

- 0 – production packet not printed
- 1 – not started, previous labor step not started
- 2 – not started, previous started
- 3 – not started, previous completed
- 4 – started
- 5 – completed

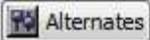
Start Quantity – the starting quantity for the labor step to complete

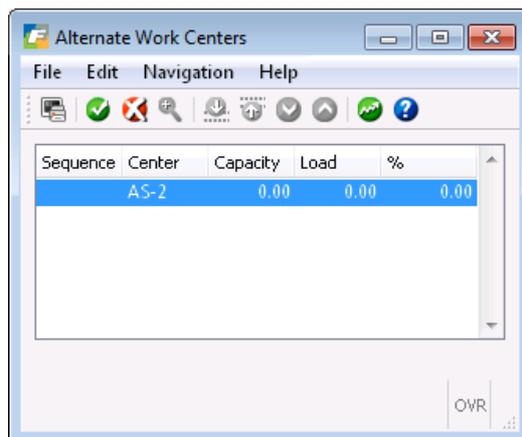
Open Quantity – the remaining quantity to be completed

Oper Due – the current due date for the labor step

Hrs Remain – the hours remaining for the labor step to complete

Period Hours – the hours remaining within the current time period interval

 - if any work center is overloaded for a given time period place the cursor in the work center/interval field and click on this button to see alternate work centers.



The screen lists all work centers defined as alternates to the current work center. For the same time period, it displays the work center's capacity and load, with a calculated percentage. To balance the load you must then go to the planned or open production order and change the work center

Capacity/Load by Machine

Use this menu option to view the capacity/load for all machines in a selected production facility (warehouse and it will default to the default warehouse in the Order Entry Defaults table). The machines are displayed with their description and a series of time period intervals representing the percentage load on the machine. The time period data is expressed as a percent (load divided by capacity). If the load is greater than the capacity, the percent is displayed with a red background. If the load is approaching capacity, it is displayed in yellow, and if the load is low or not approaching capacity, it is displayed in green. The threshold levels for the yellow and green display are entered in the Setup Production Scheduling option.

The following screen displays:

Machine	Description	04/30	05/07	05/14	05/21	05/28	06/04	06/11	06/18	06/25	07/02	07/09	07/16	07/23	07/30	08/06	08/13
M1	DEFAULT MACHINE	381	494	243	86	786	380	1020	131	91	681	131	105	0	99	0	0
M2	ALTERNATE LATHE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Select the Find option and then enter:

Warehouse Code – enter the code for the production facility you want to view

Start Date – enter a starting date for time period intervals to display. Planned and open production orders with hours remaining in their labor routing steps will be loaded into the time period intervals to the right. Each labor routing step's start and due date will be used to determine the time period interval to be loaded. The default value is the current system date.

Interval Code – Enter a time period interval to control how the remaining hours on planned and open orders will be displayed. The interval represents multiple time periods, each of which can be weekly, bi-weekly, monthly, semi-weekly, 4-weekly, or quarterly. The default is from the Setup Production Scheduling option.

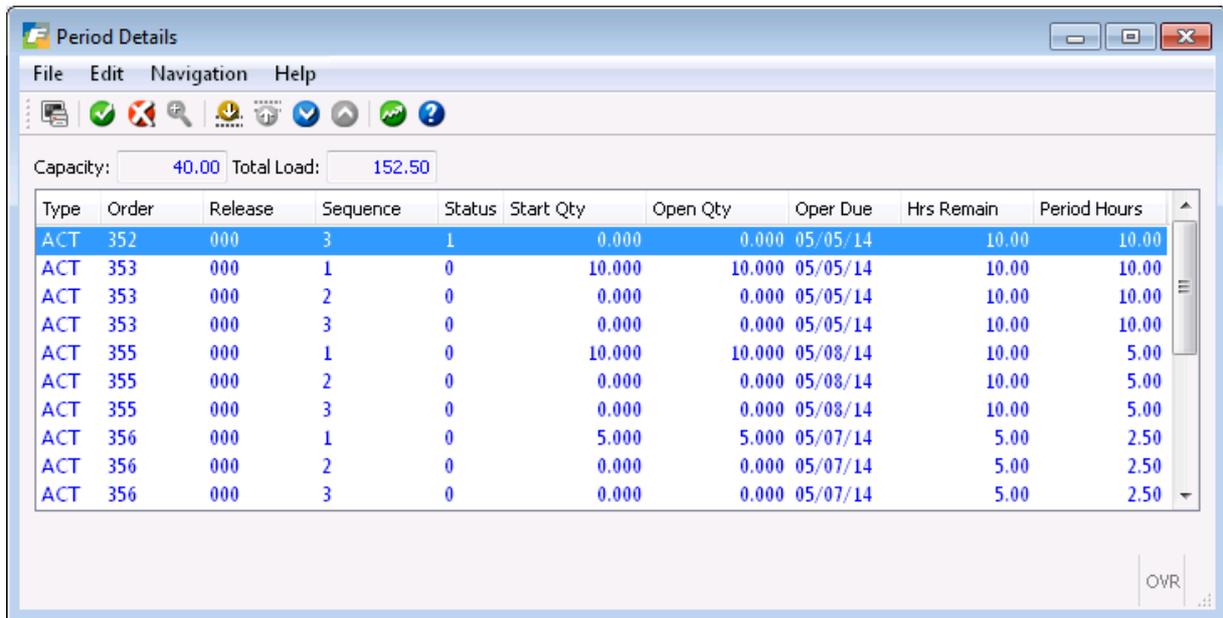
After you have selected the above values, click OK, and a list of machines will display for the facility. The columns are:

Machine – the machine in the facility

Description – the free-form description of the machine.

Time Period Intervals – multiple columns are displayed representing time periods consistent with the Period Interval Chosen. If planned or open production orders have labor routing steps with start/due dates that are within the period start date columns, the associated machine for the labor step is displayed for the matching column. If the machine is over-committed for that time period (ie the machine’s capacity for the time period is less than the total hours for all production order labor steps), it is displayed in red. If the machine is approaching capacity for that time period, it is displayed in yellow. If the machine has sufficient or excess capacity for the time period, it is displayed in green.

 **Oper Details** - To see the labor routing step details for all planned or open orders in a specific time period, click directly on the time period, then click this button. If no details exist for the time period, a message will display. The following screen displays:



Type	Order	Release	Sequence	Status	Start Qty	Open Qty	Oper Due	Hrs Remain	Period Hours
ACT	352	000	3	1	0.000	0.000	05/05/14	10.00	10.00
ACT	353	000	1	0	10.000	10.000	05/05/14	10.00	10.00
ACT	353	000	2	0	0.000	0.000	05/05/14	10.00	10.00
ACT	353	000	3	0	0.000	0.000	05/05/14	10.00	10.00
ACT	355	000	1	0	10.000	10.000	05/08/14	10.00	5.00
ACT	355	000	2	0	0.000	0.000	05/08/14	10.00	5.00
ACT	355	000	3	0	0.000	0.000	05/08/14	10.00	5.00
ACT	356	000	1	0	5.000	5.000	05/07/14	5.00	2.50
ACT	356	000	2	0	0.000	0.000	05/07/14	5.00	2.50
ACT	356	000	3	0	0.000	0.000	05/07/14	5.00	2.50

Capacity– The machine’s capacity in hours, for the selected time period.

Total Load – The total hours for labor routing steps with start/due dates in this time period.

Type – ACT for active/open orders, PLN for planned orders

Order – the production order

Release – the production order release, for ACT type orders

Sequence – the labor routing step sequence

Status – the labor routing step status:

- 0 – production packet not printed
- 1 – not started, previous labor step not started
- 2 – not started, previous started
- 3 – not started, previous completed
- 4 – started
- 5 – completed

Start Quantity – the starting quantity for the labor step to complete

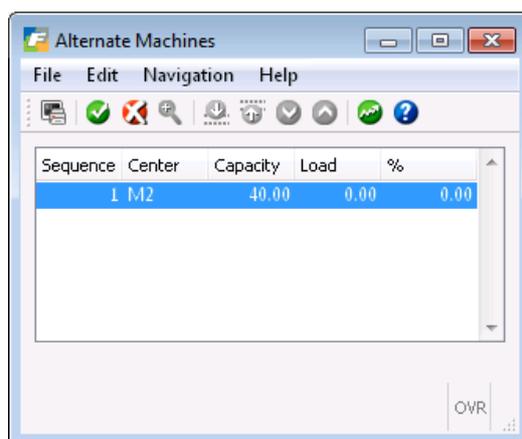
Open Quantity – the remaining quantity to be completed

Oper Due – the current due date for the labor step

Hrs Remain – the hours remaining for the labor step to complete

Period Hours – the hours remaining within the current time period interval

 - if any machine is overloaded for a given time period place the cursor in the machine/interval field and click on this button to see alternate machines.



The screen lists all machines defined as alternates to the current machines. For the same time period, it displays the machine's capacity and load, with a calculated percentage.

Capacity Load by Team

Use this menu option to view the capacity/load for all teams in a selected production facility (warehouse and it will default to the default warehouse in the Order Entry Defaults table). The teams are displayed with their description and a series of time period intervals representing the percentage load on the team. The time period data is expressed as a percent (load divided by capacity). If the load is greater than the capacity, the percent is displayed with a red background. If the load is approaching capacity, it is displayed in yellow, and if the load is low or not approaching capacity, is it displayed in green. The threshold levels for the yellow and green display are entered in the Setup Production Scheduling option.

The following screen displays:

Team	Description	04/30	05/07	05/14	05/21	05/28	06/04	06/11	06/18	06/25	07/02	07/09	07/16	07/23	07/30	08/06	08/13
T1	DEFAULT TEAM	34	41	36	14	2	15	170	22	13	68	22	18	0	10	0	0
T2	BACKUP OVERTIME TEAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TM001	WELDING TEAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Select the Find option and then enter:

Warehouse Code – enter the code for the production facility you want to view

Start Date – enter a starting date for time period intervals to display. Planned and open production orders with hours remaining in their labor routing steps will be loaded into the time period intervals to the right. Each labor routing step’s start and due date will be used to determine the time period interval to be loaded. The default value is the current system date.

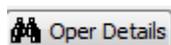
Interval Code – Enter a time period interval to control how the remaining hours on planned and open orders will be displayed. The interval represents multiple time periods, each of which can be weekly, bi-weekly, monthly, semi-weekly, 4-weekly, or quarterly. The default is from the Setup Production Scheduling option.

After you have selected the above values, click OK, and a list of teams will display for the facility. The columns are:

Team – the team in the facility

Description – the free-form description of the team.

Time Period Intervals – multiple columns are displayed representing time periods consistent with the Period Interval Chosen. If planned or open production orders have open labor routing steps with start/due dates that are within the period start date columns, the associated team for the labor step is displayed for the matching column. If the team is over-committed for that time period (ie the team's capacity for the time period is less than the total hours for all production order labor steps), it is displayed in red. If the team is approaching capacity for that time period, it is displayed in yellow. If the team has sufficient or excess capacity for the time period, it is displayed in green.



- To see the labor routing step details for all planned and open orders in a specific time period, click directly on the time period, then click this button. If no details exist for the time period, a message will display. The following screen displays:

The screenshot shows a window titled "Period Details" with a menu bar (File, Edit, Navigation, Help) and a toolbar. Below the toolbar, there are input fields for "Capacity: 80.00" and "Total Load: 136.00". The main area contains a table with the following data:

Type	Order	Release	Sequence	Status	Start Qty	Open Qty	Oper Due	Hrs Remain	Period Hours
ACT	438	000	1	0	30.000	30.000	06/13/14	30.00	30.00
ACT	439	000	1	0	50.000	50.000	06/13/14	50.00	50.00
ACT	448	000	1	0	1.000	1.000	06/17/14	1.00	1.00
ACT	449	000	1	0	10.000	10.000	06/18/14	10.00	5.00
ACT	437	000	1	0	50.000	50.000	06/13/14	50.00	50.00

At the bottom right of the window, there is a status bar showing "OVR" and a small icon.

Capacity– The team's capacity in hours, for the selected time period.

Total Load – The total hours for labor routing steps with start/due dates in this time period.

Type – ACT for active/open orders, PLN for planned orders

Order – the production order

Release – the production order release, for ACT type orders

Sequence – the labor routing step sequence

Status – the labor routing step status:

- 0 – production packet not printed
- 1 – not started, previous labor step not started
- 2 – not started, previous started
- 3 – not started, previous completed
- 4 – started
- 5 – completed

Start Quantity – the starting quantity for the labor step to complete

Open Quantity – the remaining quantity to be completed

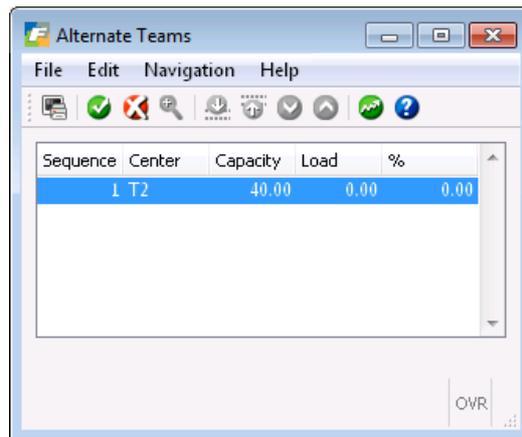
Oper Due – the current due date for the labor step

Hrs Remain – the hours remaining for the labor step to complete

Period Hours – the hours remaining within the current time period interval



- if any team is overloaded for a given time period place the cursor in the team/interval field and click on this button to see alternate teams.



The screen lists all teams defined as alternates to the current team. For the same time period, it displays the team's capacity and load, with a calculated percentage.

Index

A

Alternate departments, 44
Alternate machines, 51
Alternate teams, 55
Alternate work centers, 48

C

Capacity, 6, 7, 8
Capacity/Load by Department, 41
Capacity/Load by Machine, 49
Capacity/Load by Team, 52
Capacity/Load by Work Center, 45
Critical Ratio, 6
CRP Generation, 36

D

Department Capacity Overrides, 30
Department/Warehouse Maintenance, 17

F

Finite Scheduling, 6
Firm Order, 38

G

Graphical Capacity Analysis, 7

I

Infinite Scheduling, 6
Interval Code, 11, 41, 45, 49, 53

M

Machine Capacity Overrides, 32
Machine/Warehouse Maintenance, 21
Maintain Planned Order Routing, 37
Manual Priority, 6
Multiple Resources per Routing Step, 6

P

Period Intervals, 11
Planning Horizon in Weeks, 36

S

Setup Production Scheduling, 11, 41, 45, 49, 52, 53

T

Team Capacity, 33
Team/Warehouse Maintenance, 26
Time Period Intervals, 42, 46, 50, 53

W

Work Center Capacity Overrides, 28
Work Center/Warehouse Maintenance, 13