

FREPPLE

open source production planning

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Cockpit

Resource queue

Resource	Operation	Startdate	Enddate	Quantity
unpack.in.factory.1	Make fabric @ Factory 1	2013-01-02 00:00:00	2013-01-03 00:00:00	24
unpack.in.factory.1	Make fabric @ Factory 1	2013-01-03 00:00:00	2013-01-03 00:00:00	24
pack.in.factory.1	Pack product @ Factory 1	2013-01-03 00:00:00	2013-01-04 00:00:00	48
unpack.in.factory.1	Make fabric @ Factory 1	2013-01-10 00:00:00	2013-01-11 00:00:00	24
unpack.in.factory.1	Make fabric @ Factory 1	2013-01-11 00:00:00	2013-01-11 00:00:00	24
unpack.in.factory.1	Make fabric @ Factory 1	2013-01-11 00:00:00	2013-01-12 00:00:00	24
pack.in.factory.2	Pack product @ Factory 1	2013-01-11 00:00:00	2013-01-12 00:00:00	42
pack.in.factory.2	Pack product @ Factory 1	2013-01-14 00:00:00	2013-01-15 00:00:00	78
unpack.in.factory.1	Make fabric @ Factory 1	2013-01-21 00:00:00	2013-01-23 00:00:00	48

Purchase queue

Operation	Startdate	Enddate	Quantity
Purchase thread @ Factory 1	2013-01-01	2013-01-19	500
Purchase ink @ Factory 1	2013-01-01	2013-01-19	200
Purchase ink @ Factory 1	2013-01-02	2013-01-11	50
Purchase thread @ Factory 1	2013-01-03	2013-01-23	500
Purchase thread @ Factory 1	2013-01-04	2013-01-24	500
Purchase thread @ Factory 1	2013-01-05	2013-01-20	500
Purchase ink @ Factory 1	2013-01-10	2013-01-19	250
Purchase ink @ Factory 1	2013-01-11	2013-01-22	50
Purchase thread @ Factory 1	2013-01-14	2013-01-01	2100
Purchase ink @ Factory 1	2013-01-14	2013-01-23	150

Shipping queue

Demand	Customer near factory 1	Customer	Item	Quantity	Plan date
Demand.1	Customer near factory 1	Customer	product	40	2013-01-05
Demand.1	Customer near factory 1	Customer	product	10	2013-01-10
Demand.1	Customer near factory 1	Customer	product	42	2013-01-15
Demand.1	Customer near factory 2	Customer	product	78	2013-01-24
Demand.2	Customer near factory 1	Customer	product	100	2013-02-01
Demand.4	Customer near factory 2	Customer	product	22	2013-02-01
Demand.8	Customer near factory 2	Customer	product	100	2013-02-02
Demand.11	Customer near factory 2	Customer	product	94	2013-02-09
Demand.11	Customer near factory 2	Customer	product	6	2013-02-06
Demand.11	Customer near factory 2	Customer	product	90	2013-02-07

Resource utilization

Alerts

Resource	Count	Weight
ink	2	4
ink	7	81
material excess	12	2070

Delivery performance

Inventory by location

Inventory by item

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Cockpit > Inventory report > Demand List

Demand List

Name	Item	Customer	Quantity	Due	Priority	Status	Minimum Sh
Demand.9	product	Customer near factory 2	100.00	2013-01-25 00:00:00	1	Open	0.00
Demand.8	product	Customer near factory 2	100.00	2013-02-22 00:00:00	1	Open	0.00
Demand.7	product	Customer near factory 2	100.00	2013-02-02 00:00:00	1	Open	0.00
Demand.6	product	Customer near factory 2	300.00	2013-03-02 00:00:00	1	Open	0.00
Demand.5	product	Customer near factory 1	100.00	2013-03-01 00:00:00	1	Open	0.00
Demand.4	product	Customer near factory 1	100.00	2013-04-01 00:00:00	1	Open	0.00
Demand.3	product	Customer near factory 1	100.00	2013-03-01 00:00:00	1	Open	0.00
Demand.2	product	Customer near factory 1	100.00	2013-02-01 00:00:00	1	Open	0.00
Demand.1	product	Customer near factory 2	100.00	2013-01-02 00:00:00	1	Open	0.00
Demand.2	product	Customer near factory 2	100.00	2013-02-04 00:00:00	1	Open	0.00
Demand.2	product	Customer near factory 2	100.00	2013-02-03 00:00:00	1	Open	0.00
Demand.2	product	Customer near factory 2	100.00	2013-02-25 00:00:00	1	Open	0.00
Demand.2	product	Customer near factory 2	100.00	2013-02-01 00:00:00	1	Open	0.00
Demand.1	product	Customer near factory 1	100.00	2013-01-01 00:00:00	1	Open	0.00
Demand.1	product	Customer near factory 1	90.00	2012-09-01 00:00:00	1	Closed	0.00
Demand.1	product	Customer near factory 1	23.00	2012-08-01 00:00:00	1	Closed	0.00
Demand.1	product	Customer near factory 1	70.00	2012-07-01 00:00:00	1	Closed	0.00
Demand.1	product	Customer near factory 1	80.00	2012-06-01 00:00:00	1	Closed	0.00
Demand.1	product	Customer near factory 1	22.00	2012-05-01 00:00:00	1	Closed	0.00
Demand.1	product	Customer near factory 1	55.00	2012-04-01 00:00:00	1	Closed	0.00
Demand.1	product	Customer near factory 1	90.00	2012-03-01 00:00:00	1	Closed	0.00
Demand.1	product	Customer near factory 2	110.00	2012-12-01 00:00:00	1	Closed	0.00

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Cockpit > Resource report > Resource usage in factory 1

Resource usage in factory 1: Plan

Resource usage in factory 1: Plan

Resource	Location	Utilization %	Graph	Available	13 W02	13 W03	13 W04	13 W05	13 W06	13 W07	13 W08	13 W09	13 W10	13 W11	13 W12	13 W13	13 W14	13 W15	13 W16
weave in factory 1	factory 1	41.00%		12	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
				18.00%	33.33%	0%	96.11%	90%	84.44%	73.33%									

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Planning is an essential process of every manufacturing company in its continuous search for optimization and efficiency.

The complexity and importance of the planning process soon exceed the capabilities of a spreadsheet or ERP system, and intelligent system support is required to assist the planners in their decisions.

FrePPLe brings such advanced planning capabilities as an integrated open source application framework, quickly implementable and affordable even for small companies.

Business Benefits

- ❖ Reduced lead-times
- ❖ Reduced inventory
- ❖ Reduced work in progress
- ❖ Improved order fill rate
- ❖ Improved delivery date accuracy
- ❖ Improved asset utilization
- ❖ Improved planner productivity

Improve production efficiency

Improved planning processes enable shorter lead times, higher resource utilization and lower inventories. With fast replanning your business can react lean and agile to changes.

Reduce working capital

Better planning allows your business to operate leaner with lower levels of inventory and work in progress. Remove inefficiencies in the end-to-end supply chain by improving communication and visibility.

Improve delivery performance

Accurately quote delivery dates to customers and keep your promises. Establish sales forecasts through statistical computations and collaboration.

Easy migration from Excel

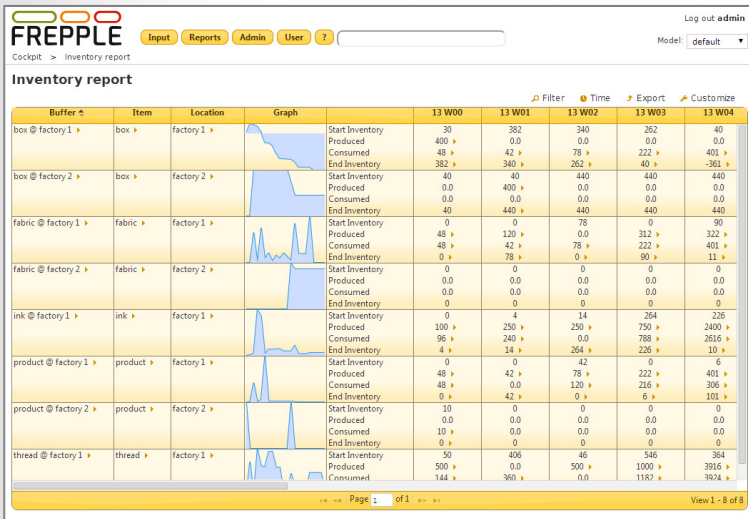
Integrated data management capabilities and intuitive import/export to Excel makes the transition easy for the planners and boosts their productivity.

Open Source

A global community of users and partners provides help, localizations and customizations. The source code of the Community Edition is available under the Affero GNU Public Licence.

Quick to implement

FrePPLe easily integrates with existing systems. Packaged integrations are available for OpenERP, OpenBravo and Adempierre.



Rich modeling capabilities

FrePPLe offers plenty of features to accurately model your plants, business rules and constraints, such as:

- fixed and variable operation times
- order prioritization
- minimum, maximum and multiple batch sizes
- alternate operations, resources and materials
- date effective material and capacity usage
- availability calendars
- assembly coordination
- pegging from raw material to demand
- resource setup matrices and conversion times
- co-products
- time-based and quantity-based safety stocks
- different procurement policies
- constrained and unconstrained planning mode

Integrated data maintenance

Planning relevant data information can be created and maintained in the planning tool itself. You're always a single click away from editing the master data – simple and effective.

What-if scenario analysis

Users can easily create what-if scenarios. Alternatives can easily be analyzed without disturbing the production system.

Easy to use

The user interface is designed around simple and intuitive workflows, driven directly by day to day planners' needs.

Integration with Excel and other office tools is easy and effective.

Flexible and extendible

FrePPLe is designed to be extensible. Customers can extend the tool with their own data models, business rules and reports.

Third parties can create commercial or open source add-on modules with additional optimization algorithms, industry specific solutions, etc.

Internationalization

FrePPLe is available in English, Dutch, French, Italian, Chinese and Japanese. Additional languages are contributed by our user community.

Technical specifications

FrePPLe is built on a set of proven, scalable and secure open source components.

- Modern web-based user interface
- Supported for all major modern web browsers: Chrome, Firefox, Internet Explorer, Safari and Opera
- Application server is supported on Linux and Windows
- Data is persisted in a PostgreSQL or SQLite database
- The web server application is deployed on Apache web server, and is based on the Django web application framework
- The solver engine is implemented in C++, extended with a rich scripting API in Python



	Community Edition	Enterprise Edition	OEM Edition	Cloud Edition
Open Source – AGPL	✓	✗	✗	✗
Maintenance and support	✗	✓	✓	✓
Extra features	✗	✓	✓	✓
<ul style="list-style-type: none"> ❖ Gantt charts ❖ Forecast module ❖ Order quoting module ❖ Customizable screens ❖ Version migration scripts ❖ REST web service 				
Hosted on cloud data center	✗	✗	✗	✓
Backups and monitoring	✗	✗	✗	✓

Community Edition

The community edition is fully functional and without any limitations. Support is available from a mailing list.

This edition is suitable for do-it-yourself projects, educational purposes, or a trial installation.

Enterprise Edition

This support level is designed for companies wishing professional support for their implementation. An annual fee is charged. In addition to the support you get additional, more advanced features.

OEM Edition

The OEM edition is for companies that want to redistribute frePPLLe in a proprietary product.

In all other editions, software incorporating frePPLLe must also be open source and compatible with AGPL.

Cloud Edition

With the cloud edition you get "planning as a service": you load all data and get the plan back. We take care of all the rest.

About frePPLLe bvba

FrePPLLe is a company located near Brussels in Belgium. We develop and maintain the frePPLLe product and also offer related customization, development and training services. FrePPLLe is connected to an extended network of partners who can provide local implementation services and specific expertise.

frePPLLe bvba

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