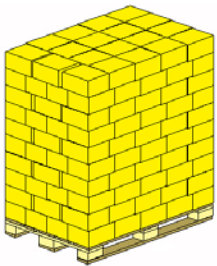
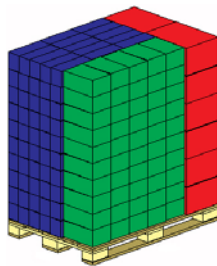


Packaging minimisation, pallet- and container optimisation.

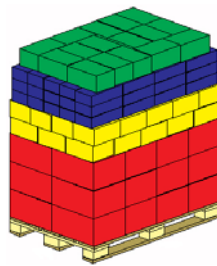
Welcome to OptiSoft - a scandinavian business unit specialising in software and solutions for "supply chain space optimisation".



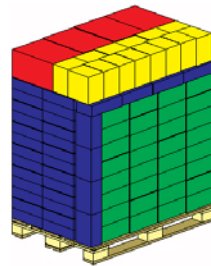
standard pallet



display pallet (column)



display pallet (layer)



mix pallet

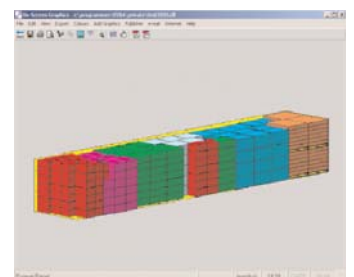
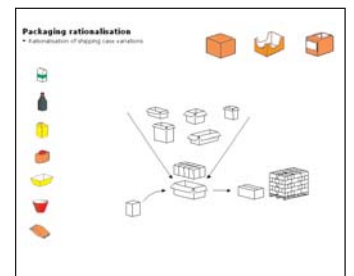
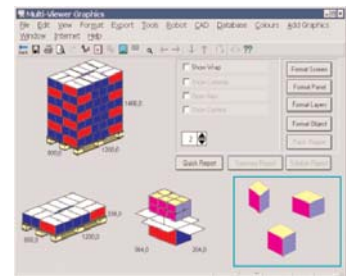
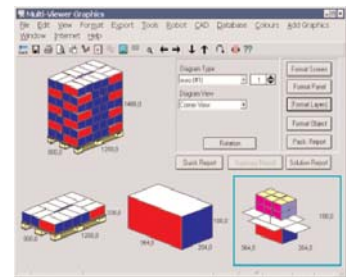
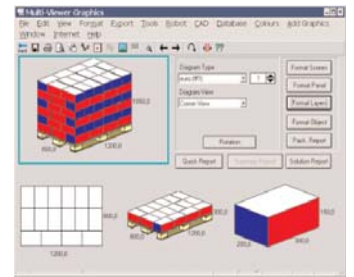
Pallet optimisation

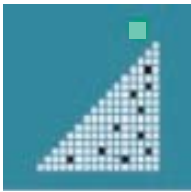
Pallet optimisation is part of the field "supply chain space optimisation", which is in focus through the companies' continuous efforts to optimise their value chain. It is a matter of packing as many products on the pallet as possible and avoiding sending too much "free air" around – either standard pallets with uniform items or mix pallets that are typically loaded according to order for a given quantity of a number of different products.

Quicklink:
www.optisoft.dk/mainarticle.html



- Pallet optimisation
- Packaging minimisation
- Packaging Directive
- Mix pallets
- Supply chain networks
- Palletising robots
- Container optimisation





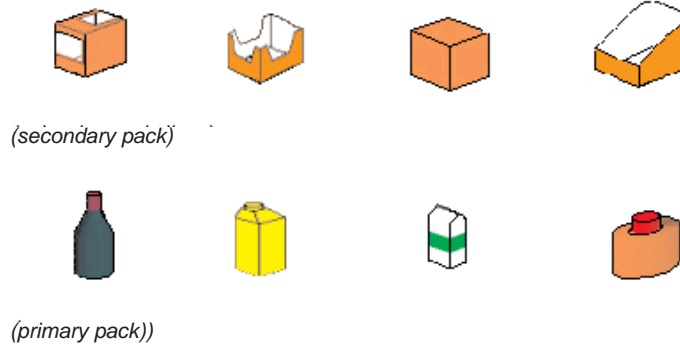
Pallet optimisation

Packaging minimisation

Packaging Directive

Packaging minimisation

Besides the actual pallet stacking, the basis for optimisation can be the secondary packing or dimensioning of the primary packing with the purpose of finding the most effective packing solution. Many factors must be considered when optimising on this level, but it also holds great possibilities of considerable reduction of the total packing consumption. Therefore, it is essential that the companies are able to live up

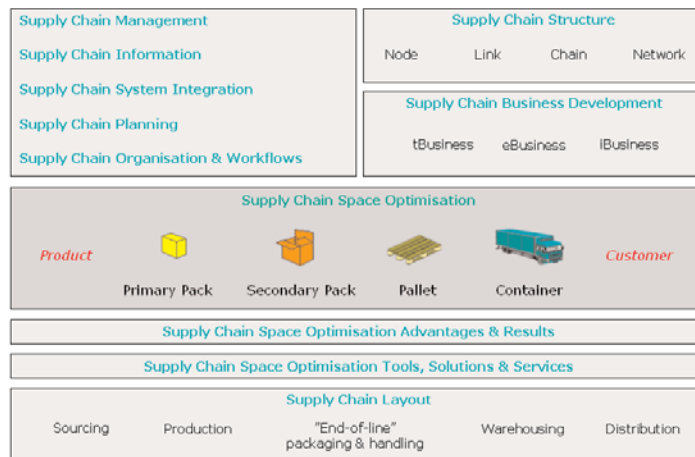


to customer expectations and to coordinate activities in connection with cost saving procedures and optimisation projects within the packing field.



Integration of supply chain networks

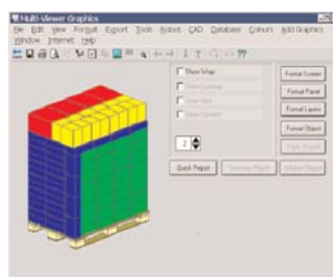
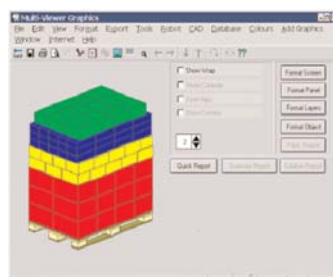
Generally, the company systems become more open and there is still more focus on integration – partly between IT systems so that information is exchanged, e.g. through web based on relevant standards, and partly generally between the companies' different supply chains that are integrated more and more in supply chain networks - networks that are spreading more and more across the borders as globalisation and



internationalisation. On the scene of the company's many disciplines and challenges within "the supply chain playground", the specific issues on "supply chain space optimisation" in many situations hold a central position.

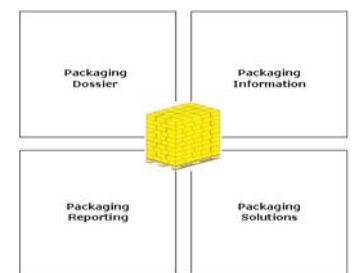
Mix pallets

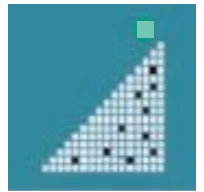
These years, the use of mix pallets increase. There are more varieties to meet specific requirements, the order sizes become smaller to avoid stock tie-up, and the demand on quick delivery "on demand" and "just-in-time" increases. More companies outsource to distribution centres that are then responsible for handling large quantities of orders for a number of customers, and with this the need for calculation tools that can quickly calculate the optimum way of packing a specific consignment increases.



Packaging Directive

Regarding implementation of the packing directive, extended demands are made on the companies to work with packing optimisation in the logistics system and to document this to the relevant authorities – a job that quickly becomes quite extensive unless the relevant tools for optimisation/minimising calculations and generating and filing of packing and packaging specifications are available.





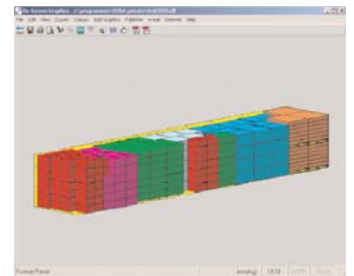
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- AssiDomän Emballage
- B&O
- Abena
- Bayer Danmark
- Beauvais
- Colgate-Palmolive
- Coloplast
- DanaPak
- Danisco Pack
- Dandy A/S
- Danish Fancy Food Group
- DP Danmark
- Dumex
- Envirotainer
- ESS-FOOD
- F. G. Terminal
- JYSK
- Faroe See Foods
- FDB
- Kims
- Landtransportskolen
- Leaf Danmark
- Løven Petfood
- LEGO System
- MD Foods
- MD Ingrediense
- Mærsk
- Nomeco
- Novo Industri
- Novo Nordisk
- Pakko Emballage
- PI-Group
- Rahbekfisk
- Royal Greenland
- Schenker Int.
- Schurpack
- SmithKline Beecham
- Thorfisk
- Toms
- TOP-TOY
- Univeyor
- Velux
- VOLVO
- Ferrosan
- Lundbeck
- Hatting Bageri
- IBM Danmark



Container optimisation

It is a challenge to load pallets and general goods in the best possible way when shipping in containers (plane, truck etc.), i.e. optimising the use of the container and not just guesstimating. At the same time, it is important to avoid faulty or part deliveries by having a precise picture from the beginning (and not when the container is actu-

ally loaded) of how a consignment should be packed in one or more containers. Container optimising software offers the possibility of making item lists, advices for the consignee, and graphical loading instructions.



Palletising robots

When it comes to the companies' internal product handling, the use of robots within palletising is increasing to ensure efficiency and ergonomically correct working functions. The request for fast readjustment means focus on PC tools that makes it possible to programme the robots with new pallet patterns "offline" – both when it comes to traditional layer palletisers, gantry robots, and free arm robots.

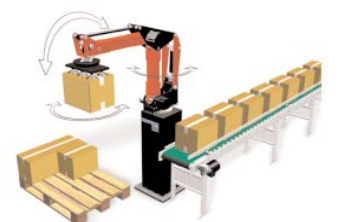


Web, intra-/extranet

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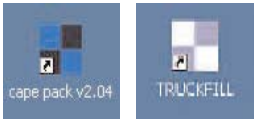
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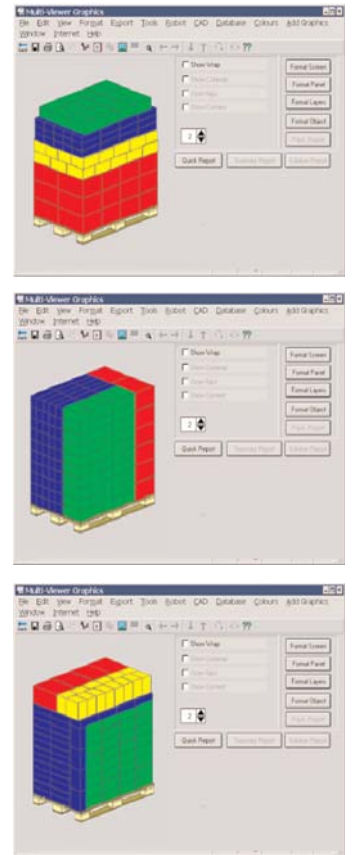
OptiSoft

Software and solutions for

Supply Chain Space Optimisation



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Inspiration meeting!

Contact us for a discussion on packaging minimisation, pallet- and container optimisation.

Quicklink:

www.optisoft.dk/mainarticle.html

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