

RETURN PACKAGING CONCEPT



PACK-STABLE-FORWARD-UNPACK



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IP- GROUP

INTELLIGENT PACKAGING GROUP



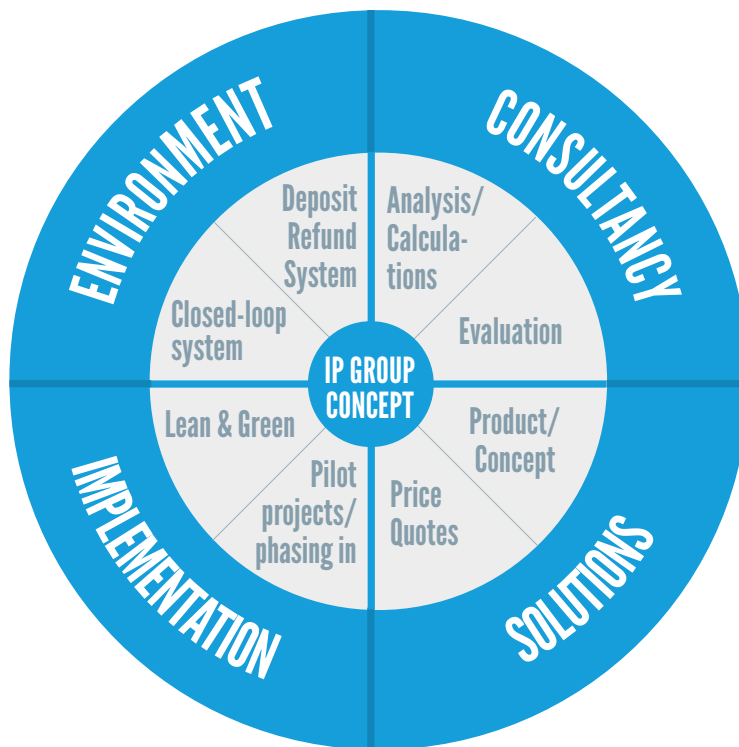
Relationships create results. This is something we firmly believe in at IP-Group. As part of that philosophy we regard and value all our customers as partners. A close dialogue paves the way to joint success. Or as we usually say: If you win, we win.

As our company name suggests, we supply intelligent packaging. We develop, sell and rent out intelligent and cost-effective packaging systems in 100 per cent recyclable plastic and aluminium for companies in Europe (all over the world). We are a company with high ambitions, which essentially

means that an IP-Group product has to be flawless and delivered on time. Our products also optimise our customers' transports, reduce carbon emissions through the design together with our return system.

Sustainability plus concern about the environment and our customers' health and safety, set the standard when we develop new products. We are certified in compliance with ISO 9001:2008 and ISO 14001:2004.

[Find out more about our approach and product offering in the following pages.](#)



IP-GROUP'S GREEN PALLET AND RETURN PACKAGING CONCEPT A WINNING CONCEPT

Changing pallet systems is a major investment. We are well aware of that. This is why we have created the IP-Group Concept. We devise and optimize the customer's transport chain according to both economically and environmentally aspects. This is how we work:

The first step is consultancy. We analyse which is the most intelligent solution for your company.

Step two is presentation of our (turnkey) solution and together with you, we will find a solution that works.

Step three: Once our offer is accepted, implementation is phased in along with our Lean & Green programme (read more about Lean & Green on page 22).

Good to know. Choose our Green Pallet and you choose a pallet that will make a difference. The Green Pallet is made of 100 per cent recyclable plastic, creating a green closed-loop system.

MORE MINIMALISM TO THE TRANSPORT AND WAREHOUSING SECTOR!



For almost twenty years, IP-Group has been helping our customer to reduce their transport costs and waste. Through know-how and smart and "Green" packaging products we develop and manufacture products from 100 per cent recyclable plastic. Our most popular product is the award-winning and patent-pending Green Pallet.

We offer both standard and fully customised solutions.

A form of minimalism is the key subject of our processes. We work hard to find solutions that reduce costs and protect the environment.

THE GREEN PALLET

A PALLET THAT MAKES A DIFFERENCE!



40%
RETURN
TRANSPORTATION REDUC-
TION

40%
CARBON
REDUCTION

40%
WEIGHT
REDUCTION

MANY ADVANTAGES

The Green Pallet did not come about by chance. It has taken a lot of hard work to design a pallet that actually makes a difference, not just for you who handle it, but also commercially and not at least environmentally.

A new EUR wooden pallet costs around SEK 120. One of our corresponding Green Pallets is more expensive. Does it really pay? The answer is YES!

So, not only is the pallet based on EUR size 1200x800 mm compatible with each other like toy bricks, there is also great savings to be made. On several levels. In short, the pallet reduces the return shipment with about 40 per cent, at least 40 per cent reduced storage space, 40 per cent reduced weight, 40 per cent reduction in carbon emissions and 100 per cent recycling and reuse.

The Ecopack.



Option 1: 6 rom



Option 2: 8 rom



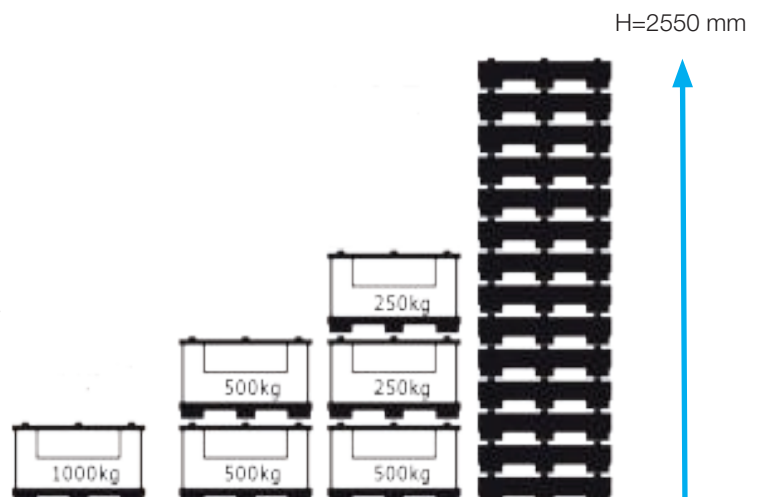
Option 3: 12 rom

Length	Width
1200 mm	800 mm

WHY GREENPACK?

- ➔ Optimizes the logistic flow
- ➔ Protects the products
- ➔ Easy to stack
- ➔ Exposure directly in stores
- ➔ Separates different goods (with dividers)
- ➔ No waste
- ➔ Replaces disposable packaging
- ➔ Long-life logistic solution

The walls of the Greenpack can be customized. The stanard-colour is grey, but can be delivered i other colours. The walls can be delivered with or without a cargo hatch, logo and RFID.



WHEN 4 BECOMES 1

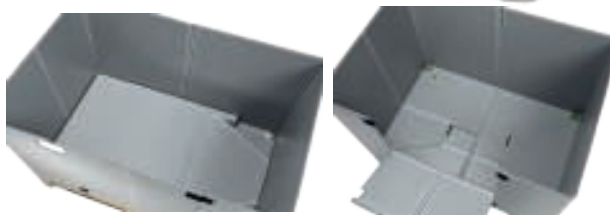


IP-GROUP ECOPACK – LOGISTIC SYSTEM

Using the Green Pallet and building a Greenpack, it measures 1200x800 mm as standard. You only return the different and separated product parts of the Green Pack obtaining an efficient logistic solution.

One Ecopak with dimension 1200x800x800 mm with outgoing goods takes only 1200x800x180 mm in return. That means that 4 trucks are reduced to 1.

Over Wall Box



Fully covered floor, folded sleeves can be stored in the container by return.



Over Wall Box fits EUR wooden pallet.

Length	Width
1200 mm	800 mm



Option 1: 6 rom

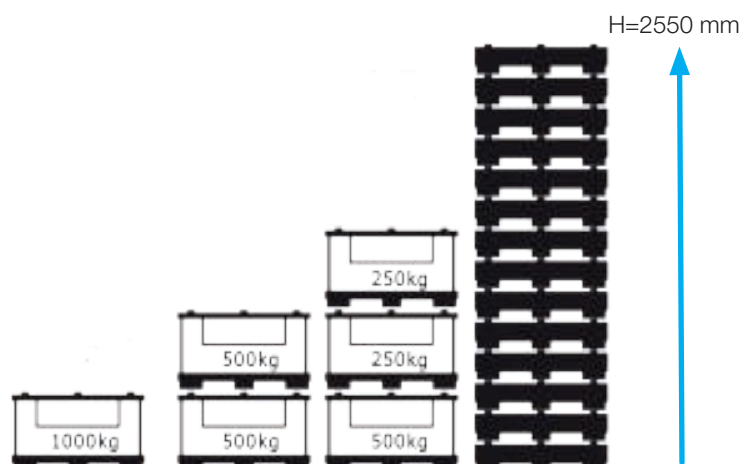
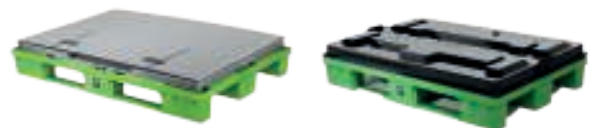
Option 2: 8 rom

Option 3: 12 rom

WHY OVER WALL BOX?

- Optimizes the logistic flow
- Protects the products
- Easy to stack
- Exposure directly in stores
- Separates different goods (with dividers)
- No waste
- Replaces disposable packaging
- Long-life logistic solution

The sleeves of the Over Wall Box can be customized. The standard colour is grey, but can be delivered in different colours. The sleeves can be delivered with or without hatch, logo and RFID. Every wall is 50 mm in return. When returning sleeves you can stack 45 walls at one pallet, measuring totally 2400 mm.



Lock Box System



Completely configured



Load hatch



Folding sleeve



Wall laid on pallets



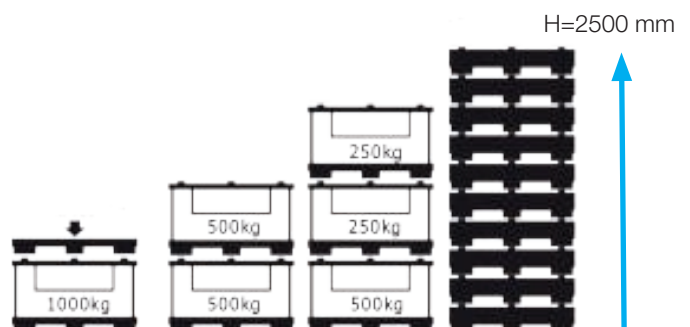
Ready for return transport

Length	Width
1200 mm	800 mm

WHY LOCK BOX SYSTEM?

- Optimizes the logistic flow
- Protects the products
- Lock the sleeve at the top and at the pallet
- Easy to stack
- Exposure directly in stores
- Separates different goods (with dividers)
- No waste
- Replaces disposable packaging
- Long-life logistic solution

The sleeves of the IP-Group Lock Box System can be customized. The standard colour is grey, but can be delivered in different colours. The sleeves can be delivered with or without hatch, logo and RFID.



Roll Box



Length	Width
1200 mm	800 mm

WHY ROLL BOX?

- ➔ Optimizes the logistic flow
- ➔ Protects the products
- ➔ Exposure directly in stores
- ➔ Separates different goods (with dividers)
- ➔ No waste
- ➔ Replaces disposable packaging
- ➔ Long-life logistic solution

The sleeves of the IP-Group Roll Box can be customized. The standard colour is grey, but can be delivered in different colours. The sleeves can be delivered with or without hatch, logo and RFID



Out Flow Box

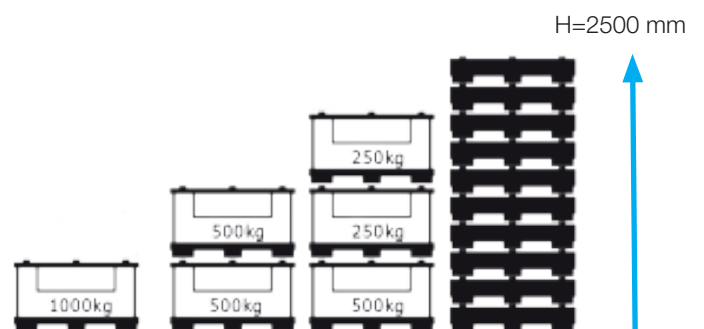


Length	Width
1200 mm	800 mm

WHY Out Flow Box?

- ➔ Optimizes the logistic flow
- ➔ Protects the products
- ➔ Lock the walls at the top and at the pallet
- ➔ Easy to stack
- ➔ Exposure directly in stores
- ➔ Separates different goods (with dividers)
- ➔ No waste
- ➔ Replaces disposable packaging
- ➔ Long-life logistic solution

The walls of IPG Out Flow Box can be customized. The standard colour is grey, but can be delivered in different colours. The walls can be delivered with or without hatch, logo and RFID.



TW Box

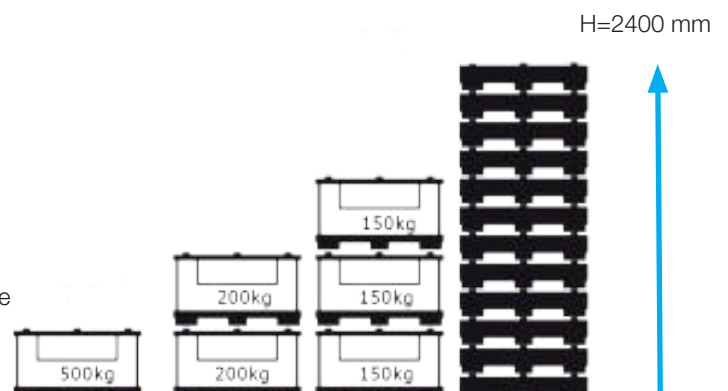


Length	Width
800 mm	600 mm
1000 mm	600 mm
1200 mm	800 mm
1200 mm	1000 mm
1400 mm	1200 mm
1140 mm	1140 mm
1500 mm	1200 mm
1600 mm	1200 mm
2020 mm	800 mm
2250 mm	800 mm
2250 mm	1200 mm

WHY TW Box?

- ➔ Optimizes the logistic flow
- ➔ Protects the products
- ➔ Lock the walls at the top and at the pallet
- ➔ Easy to stack
- ➔ Exposure directly in stores
- ➔ Separates different goods (with dividers)
- ➔ No waste
- ➔ Replaces disposable packaging
- ➔ Long-life logistic solution

The sleeve of TW Box can be customized. The standard colour is grey, but can be delivered in different colours. The walls can be delivered with or without hatch, logo and RFID.



Multi Box



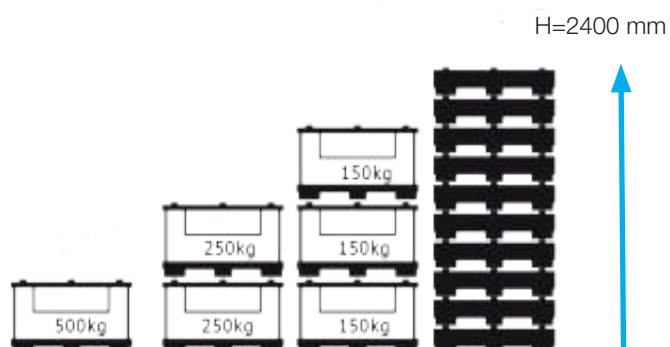
Length	Width
400 mm	600 mm
800 mm	600 mm
1200 mm	600 mm
1200 mm	800 mm
1820 mm	800 mm
2000 mm	800 mm
2300 mm	800 mm

Length	Width
1200 mm	900 mm
1200 mm	1000 mm
2030 mm	1000 mm
1200 mm	1100 mm
1200 mm	1200 mm

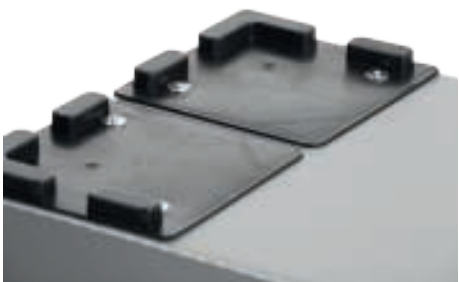
WHY MULTI BOX?

- Optimizes the logistic flow
- Protects the products
- Lock the sleeves at the top and at the pallet
- Easy to stack
- Exposure directly in stores
- Separates different goods (with dividers)
- No waste
- Replaces disposable packaging
- Long-life logistic solution

The sleeve of Multi Box can be customized. The standard colour is grey, but can be delivered in different colours. The sleeve can be delivered with or without hatch, logo and RFID.

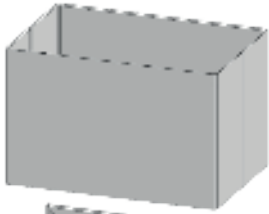


Long Box



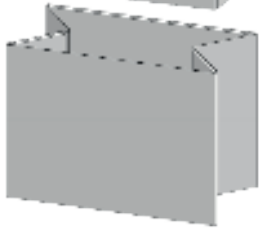
Length	Width	Height
1000 - 6000 mm	400 mm	400 mm
1000 - 6000 mm	500 mm	500 mm
1000 - 6000 mm	600 mm	600 mm

Sleeves



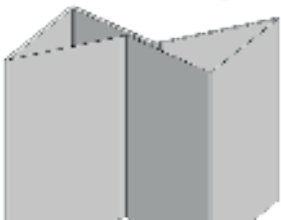
SINGLE SLEEVE

- ➔ The composite sleeves system will enable the optimum load capacity and most effective handling. The sleeves are simple to mount and it takes less than 10 seconds to install. You will obtain 80 per cent reduction in volume capacity on your returns.



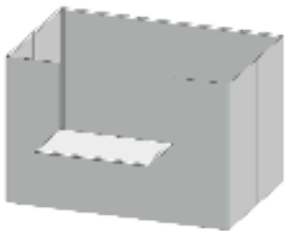
M-FOLD

- ➔ The perforation on both sides make it simple to fold.



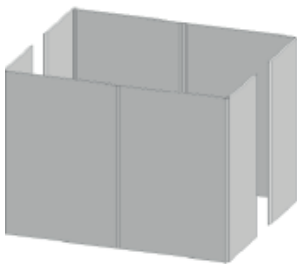
Z-FOLD

- ➔ The perforation on both sides make it simple to fold.



LOAD HATCH

- ➔ The load hatch is designed to easily load and unload and can be delivered in different sizes, with a unique locking system.



MORE SLEEVE ALTERNATIVES

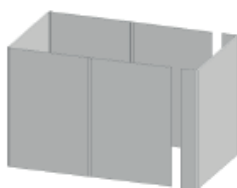
- ➔ The sides can be dismounted which will enable storage and utilization more effective.
- ➔ The system can be used directly in stores or places where needed.

Configuration 1: Symmetric

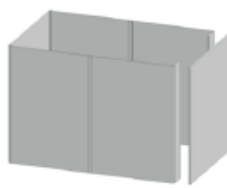
More options



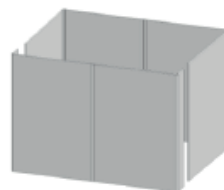
Opt 1: Symmetric



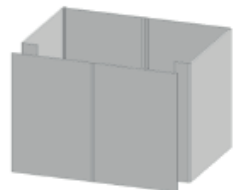
Opt 2: OPEN SHORT SIDE



Opt 3: OPEN SHORT SIDE



Alt 4: OPEN LONG SIDE



Alt 5: OPEN LONG SIDE

Pallet container P



Length	Width	Height
1200 mm	800 mm	940 mm
1200 mm	800 mm	1200 mm
1200 mm	1000 mm	940 mm
1200 mm	1000 mm	1200 mm



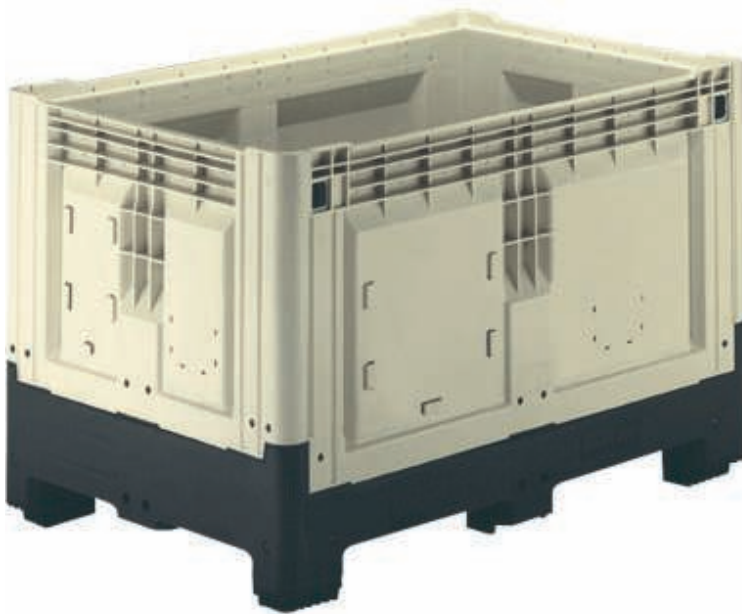
WHY PALLET CONTAINER P?

- ➔ Optimizes the logistic flow
- ➔ Protects the products
- ➔ Lock the sleeves at the top and at the pallet
- ➔ Easy to stack
- ➔ Exposure directly in stores
- ➔ Separates different goods (with dividers)
- ➔ No waste
- ➔ Replaces disposable packaging
- ➔ Long-life logistic solution

The sleeve of Palletcontainer P can be customized. The standard colour is grey, but can be delivered in different colours. The sleeves can be delivered with or without hatch, logo and RFID.



Pallet box



Length	Width	Height
1200 mm	800 mm	800 mm
1200 mm	800 mm	973 mm
1200 mm	1000 mm	800 mm
1200 mm	1000 mm	973 mm
1200 mm	1200 mm	800 mm
1200 mm	1200 mm	973 mm



WHY PALLET BOX FC?

- ➔ Optimizes the logistic flow
- ➔ Protects the products
- ➔ Lock the sleeve at the top and at the pallet
- ➔ Easy to stack
- ➔ Exposure directly in stores
- ➔ Separates different goods (with dividers)
- ➔ No waste
- ➔ Replaces disposable packaging
- ➔ Long-life logistic solution

The IP-Group Pallet Box FC can be customized. The standard colour is grey, but can be delivered in different colours. The walls can be delivered with or without hatch, logo and RFID.



Plastic crates



IPG 4322



IPG 6422 DL



IPG 6428



IPG 6428 DL



IPG 8645 DL

Type	Length	Depth	Height	Volume	Weight
IPG 4322	400 mm	300 mm	220 mm	22 l	1,2 kg
IPG 6422 DL	600 mm	400 mm	230 mm	44 l	3 kg
IPG 6428	600 mm	400 mm	280 mm	54 l	2,6 kg
IPG 6428 DL	600 mm	400 mm	290 mm	52 l	3,1 kg
IPG 8645 DL	800 mm	600 mm	455 mm	65 l	8,7 kg



IPG Green Pallet Pool

It is important to be in control over your logistic challenges and your costs.
All return pallets can be leased.

WHY IPG GREEN PALLET POOL?

- ➔ Reduce costs and protect the environment
- ➔ Create a better working environment
- ➔ Optimize turn around time
- ➔ Cost effectiveness
- ➔ Reduce loss, damage and absolute equipment
- ➔ Improve logistic circle
- ➔ No Capex (Capital Expenses) by leasing



FIRST STEP:

We introduce you to the IP-Group Green Concept and the Green Pallet pool. Consultation, function and what you can obtain. Advantages, utilization of a sustainable pallet. Your operation will gain advantages and cost savings, in other words, its a sustainable product.

STEP TWO:

We will provide our customers with an Analysis including present and alternative solutions.

STEP THREE:

After a certain time we will reevaluate your operation and adress recomended improvements if necessary.



STEP FOUR:

Implementation and during the entire process, we will be present and available for questions and clarification.



IPG Tracking

It is important to be in control over your pallets and your return packing.



1 IPG Tracking is an IT-support for handling of load carrier. Let us give you an example. Company A has several subcontractors delivering material and spare-parts..For incoming supplies Company A uses various types of load carriers (pallets, pallets frames and packing). The load carrier is payed by company A.

2 Company A is using its pallets for its customers. Some times the standard model and some times a customized pallet to a higher purchase price

3 Company A has no logisticsystem for how to use the pallets. Soon the warehouse space is booked with empty pallets. The pallets for incoming supplies already paid for once, are not all returned.

4 With IPG Tracking all pallets are registered, Company A doesn't have to pay for pallets not effectively used. When the pallets are emptied, they are returned to subcontractors for new supplies. Alternatively used for outgoing supplies. Company A always know where alle the pallets are and no pallets are storage. Above all – returning pallets - you don't pay for unnecessary pallets.

5 Company A always knows where all the pallets are, and no pallets are taking up storage space and damaged pallets are registered. With extensive recycling, there is no need for further investment.

6 Obviously you can find a variety of solutions: Bottom line is to be in control of your logistic flow and costs.

IPG RFID Logistic System

It is important to be in control over your pallets and return packing.

IP-GROUP RFID CONCEPT SYSTEMIZES YOUR MONITORING.



With IP-Group RFID (Radio-Frequency Identification) we offer you special solutions for cargo that requires special handling and monitoring along the entire transport chain. Based on high safety standards we are able to customize your special needs.

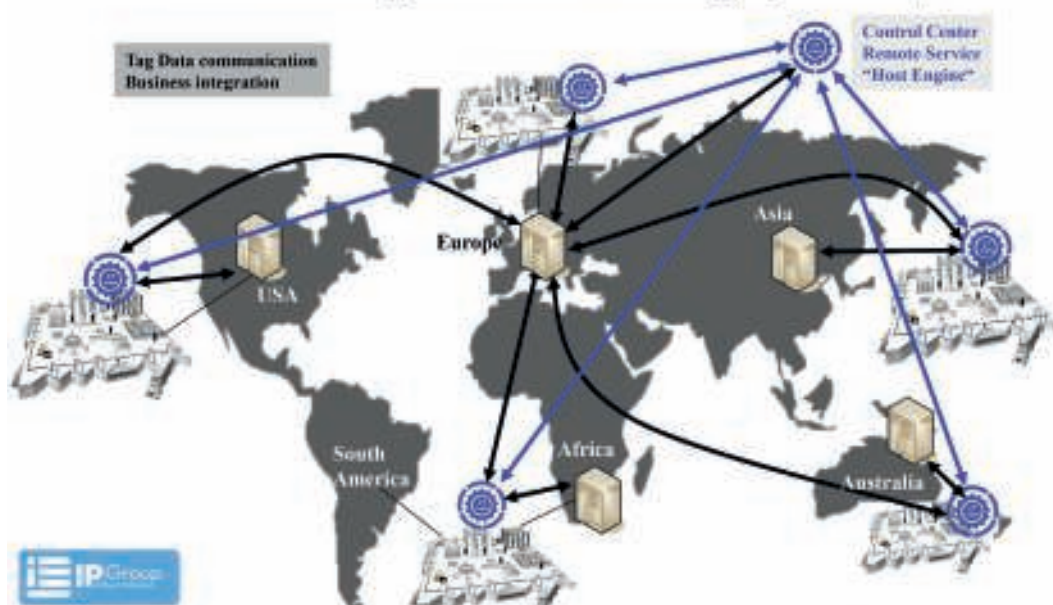
Your benefits at a glance:

- End-to-end online tracking
- Offline/online mobile application
- Routeplanner administration
- Transport handled by first class carriers

IP-Group consulting you in this process.

- **we think about your Total Cost of Ownership**

Remote Configuration & Monitoring by IP-Group





IP GROUP LEAN & GREEN SUSTAINABILITY(IMPLEMENTATION)

Environmental improvement is good business. This will not only lead to possible savings of up to 40 per cent, As a provider of efficiency in logistics, IP-Group takes care to ensure that transportation contributes to climate protection. We are convinced that environment and sustainability will become more and more of a “business licence” regarding to both competitiveness and environmentally responsibility.

The sparing use of resources, energy, efficiency and the reduction of CO2 and other emissions with an environmental impact are central go IP-Group's strategy.

IP- Group offers turnkey solutions including Green learning initiatives. The purpose is to create value for our partners. A value that focuses on balance in terms of costs, competitiveness and environmental improvements.

IP Group's concept is based on three levels:

- 1) Workshops
- 2) Courses and trainings
- 3) Lean & Green Executive Business Memberclub



NOTES



IF YOU WIN, WE WIN. IT IS REALLY THAT SIMPLE.

We have considered just about EVERYTHING when developing our WorldStar winning Green Pallet. And we would like our customers to feel like winners.

So, not only are the three pallet sizes based on EUR size 1200x800 mm compatible with each other like toy bricks, there are also great savings to be made. On several levels. We are talking about 40 per cent fewer return transports, at least 40 per cent better stackability, 40 per cent reduced weight, 40 per cent reduction of CO2 and other emissions and 100 per cent recycling and reuse.

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