

Möllers presents innovative packaging solutions



Future means Palletless

50% saving of packaging costs of each load unit

- \cdot omission of all pallet costs
- · high transport stability
- \cdot absolute water tightness
- · recyclable wrapping materials
- \cdot positive carbon footprint

load unit without pallet



load unit with pallet





Bags on Pallet

Stack configuration:

11 layers 5 bags / layer 55 bags each 25 kg total 1,375 kg

Cost of empty pallet: 12.00 Euro

Cost of stretch film: film thickness 140 μm 1200 gr / pallet

2.58 Euro





The Idea

1. goods stacked up to 12 layers, last layer in a reduced stacking pattern





4. stack pressing and turning by 180°, the top layer now forms the base of the load

2. application of base film sheets

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5. wrapping of reverse hood

3. wrapping of inner hood

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6. palletless package is ready for removal



The Process





3. stack pressing and turning by 180°

2. film underwrap



4. wrapping of reverse hood



Palletless Package

Stack configuration:

11 + 1 layers total 59 bags / package total weight 1,475 kg

(other configurations possible)

Costs of wrapping materials:

0.49 kg base sheets 2.50 kg stretch film

6.62 Euro





The Comparison



100% use of payload



FEU with 18 (2x9) packages each 1,475 kg



Palletless Line PSH-1 Capacity: 40 packages / h





Palletless Line PSH-1

Capacity: 40 packages / h





Palletless Line PSH-1





Warehousing



Open-air storage for reverse hooded loads is variable in size, pattern and position, and rapidly available as required



Shipping even without sea containers



Palletless packages can be handled by crane using C hooks, double C hooks and shackle harnesses, and also in belt slings.

With its excellent handling properties, the reverse hood package satisfies all the requirements for rapid loading and unloading of containers.



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