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CARGO-SORT®

—Wood-Plastic Pallet



Pallet is a platform for facilitating the loading and unloading of goods, transport, storage and distribution, and also an cargo board of forklift. It is the most inconspicuous tool but a very common one in the logistics industry and the main means of turning the goods from static to dynamic state. Though it is only one square meter in size, it “moves the whole earth”! It is also called "active ground", “moving platform.”

The role of pallet in logistics is obvious to see. In real life, using pallet for transportation can effectively reduce the labor and cost, of course, the most important thing is that it greatly improves the speed of conveying, and can effectively prevent the goods from damage, and so on.



Load the whole world on pallets!

“Pallet-based operation”

Using manpower to load and unload the corrugated box or bags of goods into trucks or containers one by one is called hand loading and unloading. The other way is taking 50 or 100 corrugated boxes or bags as a unit, it is first piled up on the pallet, and then you use the forklift to load the pallet to the platform for the delivery. This kind of transport is called “pallet-based operation transport system.” In developed countries, pallet-based loading and unloading is taken as the basic operation for transportation. In transport, it is bound to have the loading and unloading operation before and after. Comparing with the traditional manual handling operations,



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the labor and time required with the use of pallets is only one-tenth of the former, that is to say, one forklift driver takes 10 persons' work.

Pallet introduction in sort



Wooden pallet

Wooden pallet is a widely used It is made of PE/PP It is made of corrugated or in the field of storage, turnover thermo-plastic, together with honeycomb paperboard, light in and transportation. It is in low some additives, through injection weight, owns very good cost, easy and flexible to use, molding, blow molding and other compression resistance strength, firm and durable.

Note: To many countries, wood wooden pallet, it is clean, easy strength. en pallets for export should be washing and disinfecting, no It has obvious advantages for fumigated.



Plastic pallet

It is made of PE/PP It is made of corrugated or in the field of storage, turnover thermo-plastic, together with honeycomb paperboard, light in and transportation. It is in low some additives, through injection weight, owns very good cost, easy and flexible to use, molding, blow molding and other compression resistance strength, firm and durable.

processing. Comparing with the deflection-resistant, drop-resistant Note: To many countries, wood wooden pallet, it is clean, easy strength.

It has obvious advantages for barded nail or mildew, anti-acid. export: no need for quarantine, free It has a good property in whole, of fumigation, environmentally Its service lifetime is 5-7 times friendly. For its average weight of that of the wooden pallet. In 1.6-1.7kg comparing with 15-20kg addition, it meets the of wooden pallets, it is remarkably requirements of environmental economic for air transport in protection. The material of used particular. pallets can be recycled for use again.

Paper pallet





Plywood pallet

Plywood pallet is firm and durable, applicable to special packaging for heavy loading of goods. The plywood surface is smooth, clean, and hard to absorb moisture. The other main characteristic is light but strong.

Steel pallet

It is made of high-quality metal materials, it is high-strengthened, combined with the panel and the anti-acid, corrosion-resistant, beautiful-shaped, non-aging, anti-absorbent, firm and durable, no need to absorb moisture. The other maintenance. (fumigation-free), moisture-proof, mildew-proof, anti-static, flame retardant, non-toxic, non-slip, etc. It makes it more superior in the load bearing capacity, and solves the outriggers were weaknesses of poor cleanliness, intensifying-treated to deal with high cost, fragile, short life, and the load equally; the surface also the plastic pallet's treatment with zinc or shortcomings of poor rigidity, high electrostatic spray make it easy to be cleaned but not easy to get polluted.

Wood-plastic pallet

Being made of wood-plastic material, it is high-strengthened, anti-acid, corrosion-resistant, non-aging, anti-absorbent, firm and durable, no need to absorb moisture. The other maintenance. (fumigation-free), moisture-proof, mildew-proof, anti-static, flame retardant, non-toxic, non-slip, etc. It makes it more superior in the load bearing capacity, and solves the outriggers were weaknesses of poor cleanliness, intensifying-treated to deal with high cost, fragile, short life, and the load equally; the surface also the plastic pallet's treatment with zinc or shortcomings of poor rigidity, high electrostatic spray make it easy to be cleaned but not easy to get polluted. Moreover, it can be saw, planed and nailed.

Advantage comparison among all kinds of pallets:

- * In corrosion resistance, plastic pallet is the best; wood-plastic the second; steel pallet the worst.
- * In wet-resistance, plastic pallet presents the highest performance of all.
- * In moth-resistance, steel pallet plays the best, and plastic pallet takes second place.
- * In average life, steel pallet and plastic pallet are at the same level.
- * In weight, paper and wooden pallets possess an advantage.
- * In bearing load, steel pallet performs the best, paper pallet is the weakest.
- * In service performance, steel and plastic pallets are superior to paper and wooden pallets.
- * In price, wooden pallet is lowest, paper and wood-plastic pallets are the second, steel pallet is the most expensive.

However, according to different application, some kinds of pallets are hard to be replaced. For example, steel pallet is irreplaceable when carrying heavy load. In overall view, plastic, wood-plastic and paper pallets are more promising products, and among them plastic pallet is the most.



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Tip 1: History and current situation of the pallet

In 1930s Pacific War, the U.S. army for the first time used pallets for improving the efficiency of cargo handling to ensure their logistics supplies. After that, pallets were widely used around the world, and considered as one of two key innovations in the logistics industry in 20th century. Currently in the United States, 80% of merchandise trade is carried with pallets. In Europe each year there are 0.28 billion pallets in the business-to-business cycle. In China, there are about 0.1 billion pallets, of which 90% are wooden pallets, only 8% plastic pallets can be recycled. As there is no uniform standard of specification and lack of shared system, most of pallets are for business internal use. Nowadays, China's rapid expanding of logistics scale results in a total annual of 20 millions pallets in amount.

Tip 2: fumigation problem

Though wooden pallet is lower in cost, the likely hidden eggs of insects carried by pallets will break the ecological balance in the imported country, which can cause biological invasion. Exports (imports) in some countries must be carried out fumigation and pest treatment beforehand. Fumigation must be done in fix-point units and the relevant proof is to be issued. We suggest you use fumigation-free pallets, for its simpler customs declaration of it. As fumigation treatment takes time, to save time, some fumigation-free pallets, such as plastic, paper, high-density material pallets are preferable by some exporters.

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