

RETURNABLE PACKAGING REQUIREMENTS

PURPOSE:

To define the standards and responsibilities associated with the DMTN returnable packaging program.

STANDARDS:

A. Container Requirements

1. Containers must be designed for manual handling
2. Straight wall, stack only totes preferred
3. Containers must cube 48" x 45" pallet
4. Container quantity can not exceed one day of production
5. Part orientation in tote should be simple and consistent. Avoid excessive reach.
6. Supplier-owned containers must be marked with supplier name and plant location.
7. Kanban card holders are required as specified by DMTN

B. Preferred Containers Sizes

BOX SIZES	KANBAN LOCATION	WEIGHT LIMITS
12" x 15" x 5"	adjacent sides	30 lbs or 13.61 kgs
12" x 15" x 7"		
12" x 15" x 9"		
24" x 15" x 5"		
24" x 15" x 7"		
24" x 15" x 9"		
* 24" x 15" x 11"		
* 24" x 15" x 14"		
24" x 22" x 9"		25 lbs or 11 kgs

C. Dunnage Requirements

1. Returnable material should be used when possible
2. Material must be recyclable

D. Pallet Requirements

1. Pallets must be returnable
2. Must be AIAG standard 48" x 45", with standard fork openings
3. Must be four-way-entry
4. Supplier-owned pallets must be marked with supplier name and plant location

RESPONSIBILITY:

A. DMTN Packaging Department

1. Assist in determining ownership of containers
2. Establish system days allocation for DMTN-owned containers
3. Review requests for returnable packaging deviations
4. Monitor allocation levels for DMTN-owned containers

RETURNABLE PACKAGING REQUIREMENTS *cont.*

B. DMTN Purchasing / Localization

1. Review and approve packaging cost
2. Assist in establishing system days for DMTN owned returnable containers

C. Supplier General responsibilities

1. Review and adhere to DMTN standards
2. Designate a packaging contact to resolve packaging related issues
3. Monitor packaging condition and ensure quality of pack before use. The supplier and DMTN are responsible for sorting and separating unusable containers.
4. Investigate packaging improvements
5. Provide packaging cost analysis to DMTN Purchasing
6. Submit new specification when:
 - Part has design change
 - Package changes
 - Lot size changes
7. Initial orders must be shipped in mass production packaging

D. Supplier Owned Returnables

1. Must be approved by DMTN PCA Department
2. Must meet AIAG standards
3. Must be cleaned and maintained by the supplier

E. DMTN Owned Returnables

1. Inspect all containers, prior to use, for damage and reject packaging that will not ensure part quality
2. Remove any old tags and/or debris from packaging
3. Monitor production changes and notify DMTN PCA of potential shortages before the situation becomes a crisis
4. Utilize approved designs for mass production
5. Request packaging deviation approval (24 hours prior to shipment) if required to use and expendable backup system (see SPS form)
6. A Damaged Packaging Report must be completed by supplier to notify DMTN of any damaged or unusable containers. (See 4-6)
7. Damaged packaging must be identified with the Damaged Packaging Kanban (see Labeling page 5-9)

F. Returnable Packaging Shortages

1. The supplier is responsible for ensuring no parts are on hold in returnable packaging
2. The **supplier is responsible** for developing an **approved back-up expendable package** for use prior to mass production or implementation of returnable.
3. The supplier must maintain a sufficient supply of back-up expendable packaging of the same dimensions and quantity as the returnable container.
4. Expendable pack must have same outside dimension and lot size as the returnable containers.