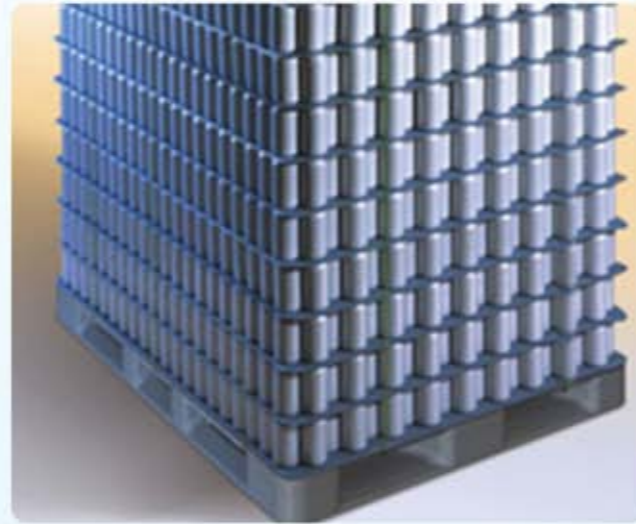


# Total Cost of Ownership Services (TCO)

Single window to deliver all your end-of-the-line operations

Signode offers TCO to deliver end-to-end solutions and services with Total Cost of Ownership for all Packaging and Warehouse activities

- All plastic materials for Palletization
- Supply of Tenax® polyester strap and stretch films
- On site supervision for managing packaging operations
- Line efficiency improvements
- Online print and apply labeling linked with AIDC
- Warehouse management with WMS
- Real time, online visibility of finished goods
- Single invoice for all the above services



## Assets Pooling and Collection Management with Returnable Transport Packaging (RTP)

- Specially designed Plastic Tier sheets
- High quality Plastic Pallets and Top frames
- RFID enabled for efficient tracking
- Web based online tracking and reconciliation
- Asset management with Track and Trace software for
  - Management of Pallet sets from your customers
  - Dry cleaning of the Tier Sheets to FDA requirements
  - Daily preparation of the Pallet sets
- Sustainability drive with Co-Branding initiatives



### SUSTAINABILITY

Integrated solutions designed to meet your operation needs and your customer demands



### AIDC & WMS

RFID enabled automated asset management to track and trace both finished goods and RTP assets in the supply chain



### CUSTOM SOLUTIONS

Reduced packaging footprint and achieve greater sustainability scores

**SIGNODE®**

Your partner in industrial packaging world wide

## Beverage Cans

Safe and Sustainable Solutions  
Packaging, Warehouse and  
TCO Services



## Simplified, single window



**SIGNODE®**

Your partner in industrial packaging world wide

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✉ : [enquiry@signodeapac.com](mailto:enquiry@signodeapac.com)

March-2014

Automation ■ Consumables ■ TCO Services ■ ASRS and WMS ■ Consultancy

# End-of-the-Line Packaging Systems

High speed systems to deliver most efficient palletized loads

## Unique solution to gently apply polyester strap providing the most efficient loads

- High speed operation – to cater high through puts
- Higher retained strap tension - perfect pallet loads
- Simple modular design - Maximum machine uptime
- Consistent strap tension – Improved load securement and package stability
- Separate modules weigh 10-12.5 kg- Easy to maintain and reliable
- Ease of trouble shooting-High uptime



New Generation Strapping System

## Tenax® is a highly engineered polyester strapping for most demanding applications

- Tenax® provides the long-term compression required to overcome the instability of unitised can loads
- Tenax® 1612 special strap designed to improve strap tensions at point of delivery by 30%. Environment friendly: 9 mm Strap, 40 to 60% less material consumption



## Right choice for high production efficiency and load containment consistency to minimize transport damage

The Octopus ring technology is suitable for all pallet-loadable products in many branches of industry.

The Octopus ring technology is the result of delivering over 5,000 Octopus machines, with an understanding of the customers' needs.

- High speed, gentle and efficient, suitable for delicate loads like Cans pallet
- Patented easy load – film reel for fast and quick change over
- No Touch – no tail film seaming and cutting - for perfect load finish
- No lubrication needed, benefits - noiseless, food industry requirements
- Wireless technology between wrapping unit and control panel



## Innovative stretch films for secured loads

- Direction controlled films for high performance as demanded by high-speed wrapping machines
- Films that meet the ISO 22000/BRC- IOP standard
- Oxo-photodegradable films
- Oriented Mimalite® films from 7 to 9 microns



# All Plastic for Palletization

Reusable, Hygiene and Sustainable solution

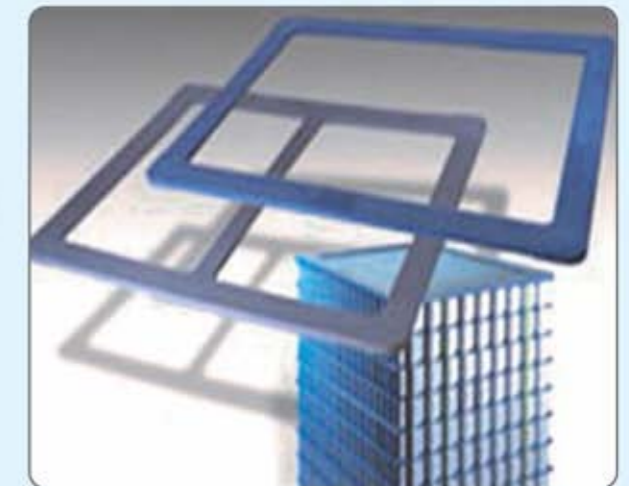
## Tier Sheets are 100% solid plastic for maximum load stability, reduced contamination and greater product protection

- Moisture and bacteria resistant
- Odourless and FDA compliance
- Suitable for dry and wet wash
- Compatible with wood and plastic pallets
- 100% Recyclable
- Reusable
- Ensures load stability



## Plastic top frames and Plastic pallets for safer loads

- Top frames and pallets maintain safer loads and meets industry hygiene requirements
- Top frame features a modular and nestable reinforced box beam design



- These top frames and pallets maintain stiffness and uniform dimensions during its life cycle
- Eliminate dirt traps addressing one of the filling industry's biggest concerns
- Greater stability during stacking

## Warehouse solutions

- Automated storage and retrieval systems for high dense storage
- Customized WMS solutions