

Technical sales manual

1.3.2011

MATERIALS Handling PTY LTD Working with ease...

V1.0

Yellow Jacket business idea

“To bring profitable new wrapping technology to meet customer packaging requirements, and to be a part of your success ”

Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

What is Yellow Jacket

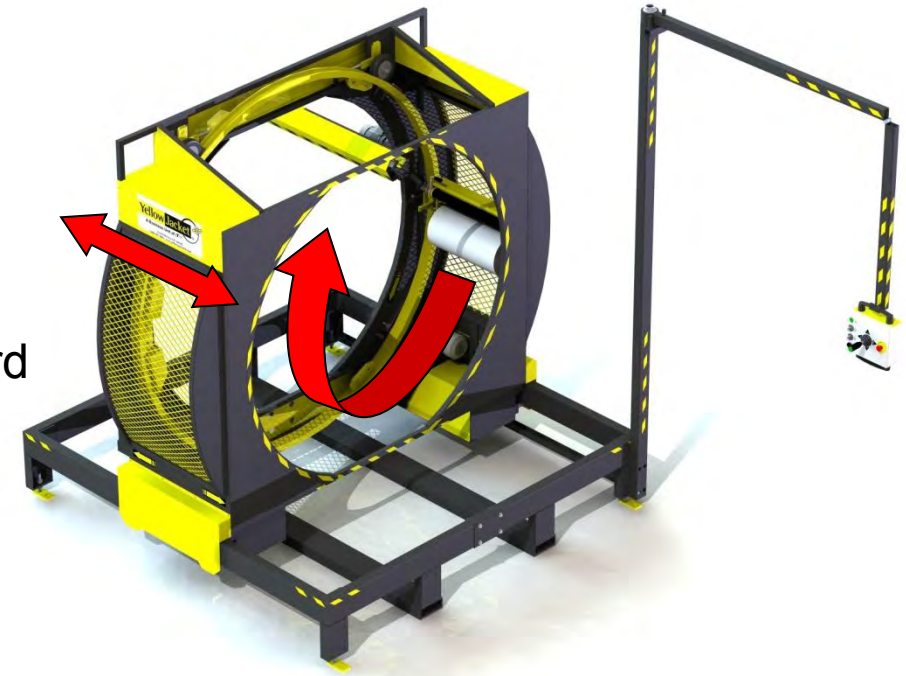
Yello Jacket is semiautomatic orbital wrapping machine.

This unique idea to combine orbital wrapper to ”stay in forklift truck” operation mode has been patented.

Operator drives pallet load into machine by forklift truck.

Product is wrapped when ring rotaes around product pallet.

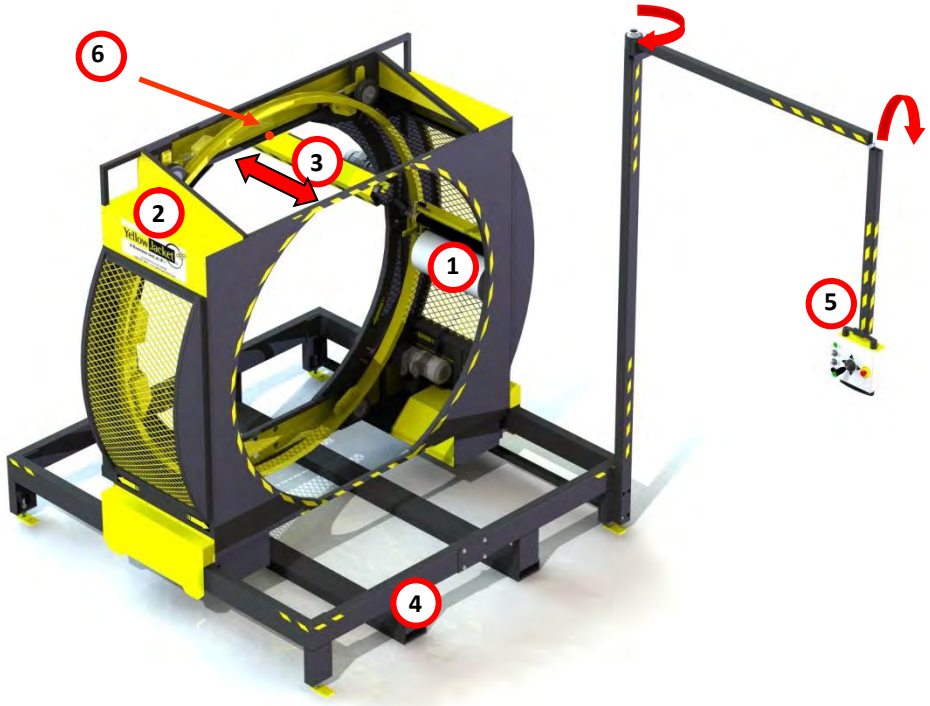
Film overlap is controlled by wrapping unit’s forwards / backward movement.



Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Machine structure

1. Film carriage
2. Wrapping unit
3. Film cutting / holder
4. Base
5. Control unit
6. Signal lamp



Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Yellow Jacket features

Film carriage with brake roller



Yellow Jacket's film carriage is equipped with adjustable brake roller.



Use the brake lever to set the exact film tension required.

Yellow Jacket features

Easy, fast and safe film loading

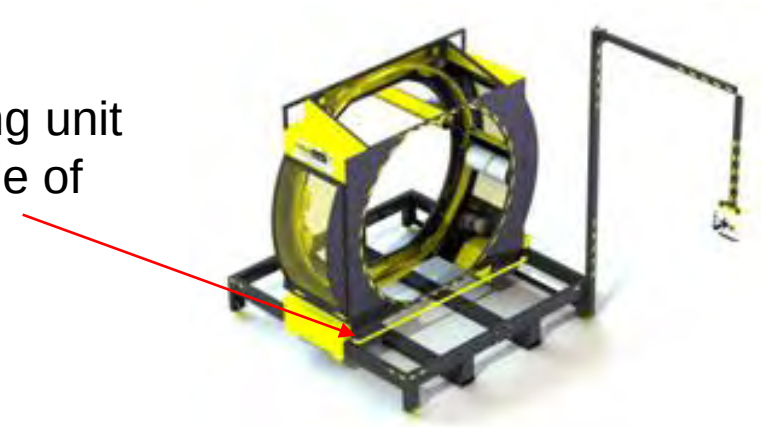


Film carriage can be opened for easier film reel loading.

Yellow Jacket features

For operators safety

Safety bar between the wrapping unit and machine frame, on both side of wrapping unit.





Film carriage rotates inside of wrapping unit. It doesn't hit to the load which can be driven in.

Wrapping unit is equipped with dense safety fence on both sides.

Yellow Jacket features

Easy to move by forklift truck



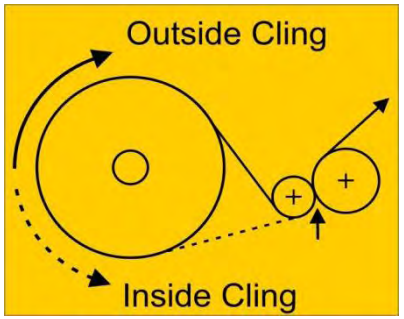
Yellow Jacket can be easily moved from both side of frame by forklift truck.
Weight of machine is app. 670kg.

Yellow Jacket features

Film specification



- W = 500mm
- max. diameter = 260 mm
- core diameter = 76 mm
- core length = 500-515 mm
- stretch film thickness: 15 - 30 µm



Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Technical data

Product pallet max. dimensions

- Product pallet max. dimensions:

  800 x 1350mm (W x H)

  1000 x 1200mm

  1200 x 1000mm

- Max. pallet load length 1800mm + 50mm over the pallet load's front and trail edges.

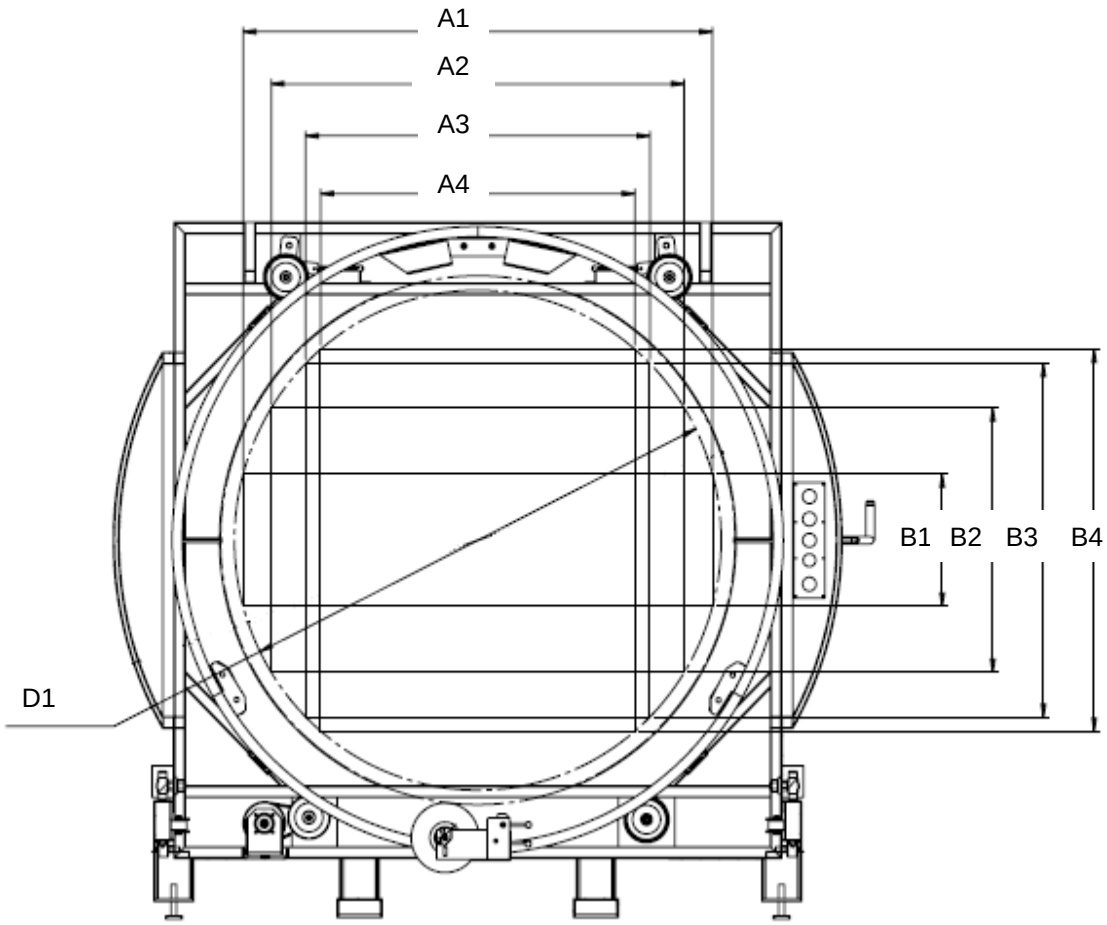
A1=1660mm B1=450mm

A2=1460mm B2=910mm

A3=1220mm B3=1220mm

A4=1110mm B4=1320mm

D1=1730mm



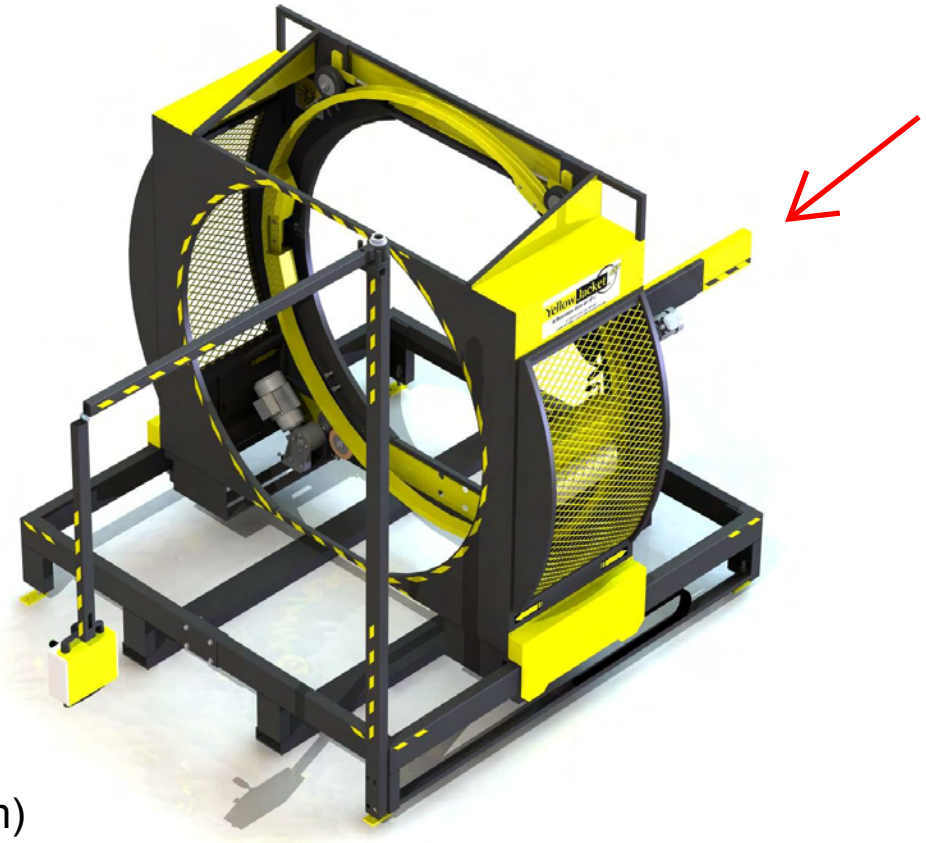
YellowJacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Technical data

Machine dimensions - needed floor space

Semi-automatic –model

- 3350* x 2300mm (L x W)
- Height: 2410mm



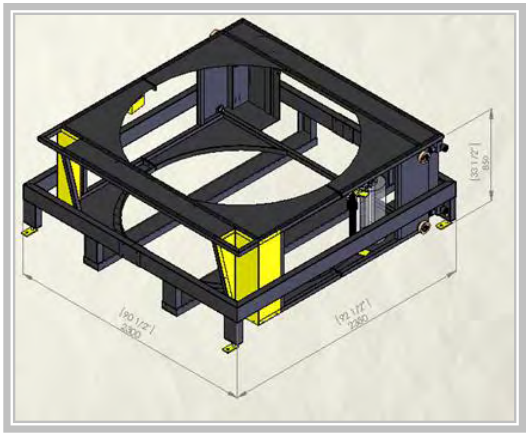
* This dimension is the base (2350mm) plus the cut off arm length. See arrow.

Transport dimensions

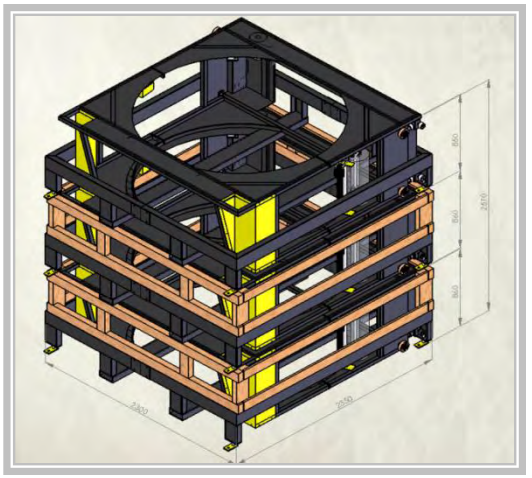
Max. 15 Yellow Jacket machines can be loaded to standard megatrailer truck.

When using wooden crate for one machine delivery, crate dimensions are:
2500 x 2400 x 1050mm (L x W x H).

Three machines can be loaded on each other, app. 2,4 loading meters.



2350 x 2300 x 850mm



2350 x 2300 x 2570mm

Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Installation

Detailed high quality instructions

Yellow Jacket is easy and fast to install.
Detailed instructions for installation and service are delivered with machine.



Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Connections

Yellow Jacket electrical connection

1 phase 16A industrial plug

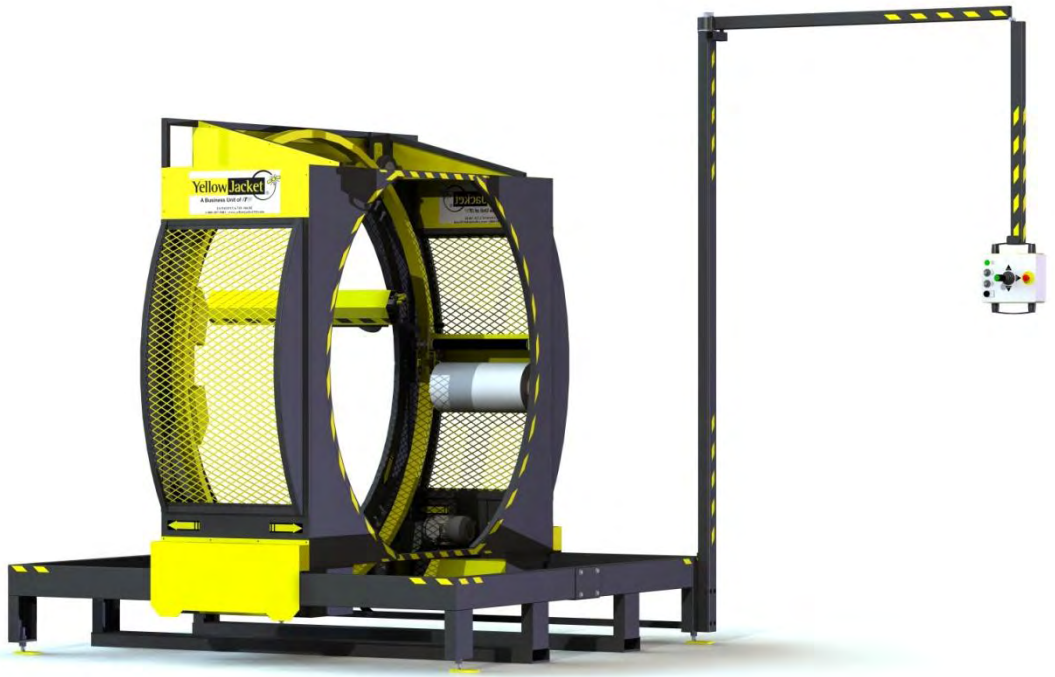
230VAC / 50Hz + Neutral + Ground

App. 1,2 kW

Note. Air supply is not needed.



Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0



Semiautomatic model

Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Semiautomatic model

Function of semiautomatic model:

- Operator drives pallet load into and starts cycle by using the remote controller.
- Film overlap: Wrapping unit will move fwd-bwd on guidings, operator is controlling movement.
- At the end of cycle film will be cutted and film end holded by gripper. This function is controlled by remote controller.

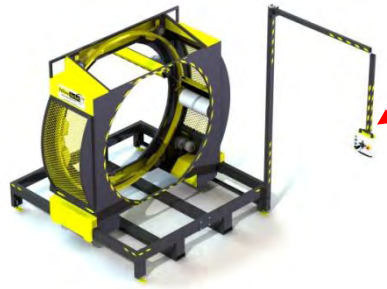


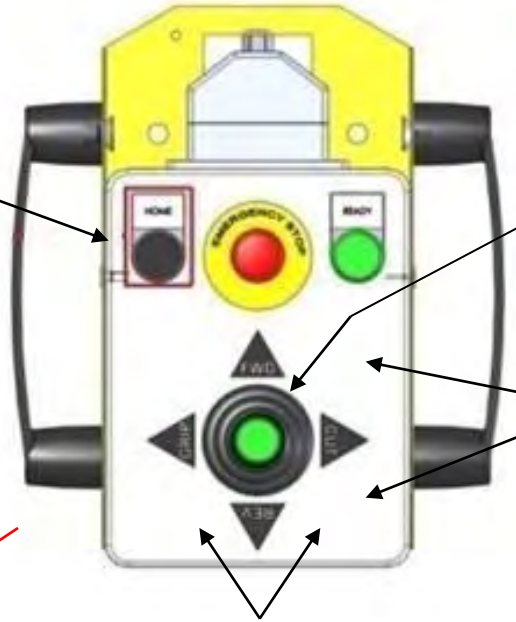
Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Semiautomatic model

Remote control panel of semiautomatic model:

Remote control panel is availbe for operator without need to step out from forklift truck. It's at the end of movable arm, from where operator can take it to start wrapping cycle.





Film carriage to home position for film reel change

Ring rotation by pushing the button of joystick

Wrapping unit forward / backward by joystick

Control of film gripper and cutting by joystick

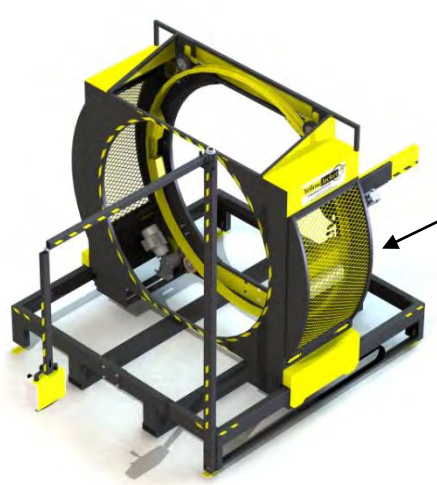
Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Semiautomatic model

Wrapping unit speed and ring rotation speed:

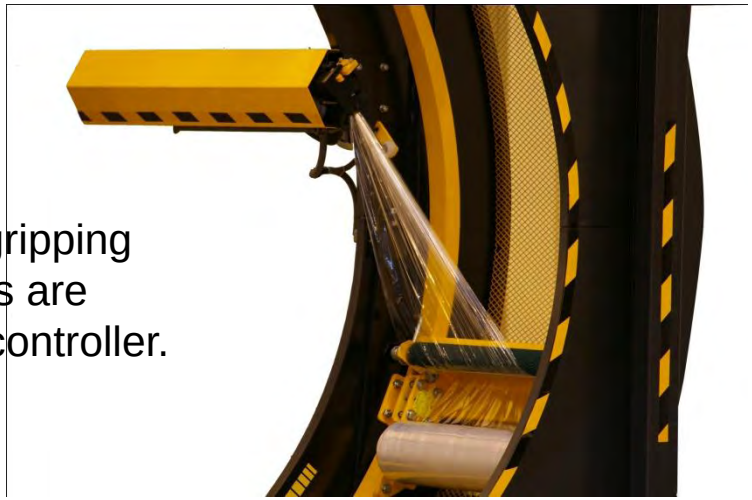
Film overlap, i.e. wrapping unit forwads / backwards speed, and ring rotation speed can be adjusted by potentiometers located to wrapping unit.

Both movements are controlled by frequency controller which reduce need of maintenance.





Semiautomatic model



Film gripper and cutting device:

Semiautomatic model is equipped with film gripping device and film cutting device. Both functions are controlled by operator, by using the remote controller.



At the end of cycle gripper will be driven out.



Operator stops ring rotation when carriage has passed the gripper.



Film is cutted when gripper is driven back, and machine is ready for next wrapping.

Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Semiautomatic model

Pallet trail edge indicator:

When operator is driving machine from forklift truck, range of visibility can be limited with some pallets due to the product size or structure of forklift truck.

Semiautomatic model is equipped with photocell detecting trailing edge of product or pallet.

Light located to upper part of wrapping unit will indicate when film has reached trailing edge.



Why Yellow Jacket

Boosts pack-to-ship performance while minimizing labor requirements

- Yellow Jacket is easy to operate by one person. One person can do packaging quickly instead of binding products by hand using film or straps or even both
- No need to place top film by hand

Remarkable packaging material savings

- Less cardboard, less straps, less hand film

Versatility

- Wraps standard, oversized and irregularly shaped loads with no weight restrictions.



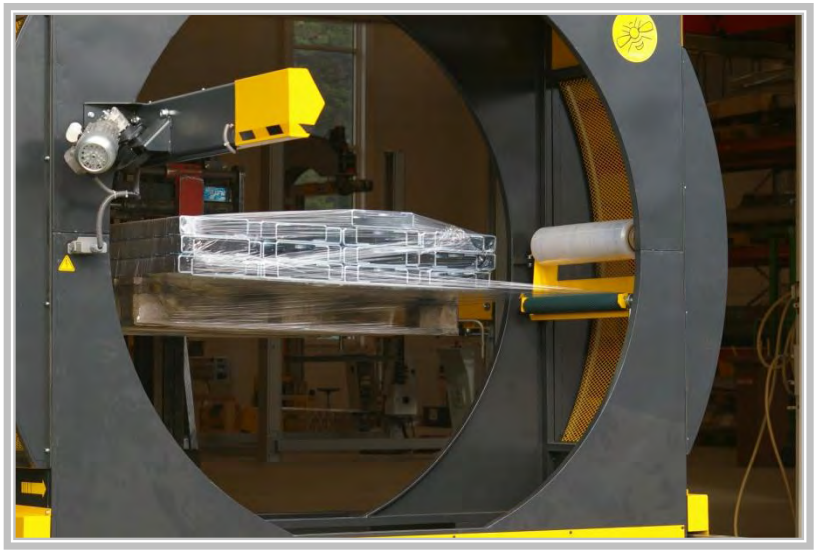
Why Yellow Jacket

High product to pallet retention

- Even heavy products can be packed without using straps
- Not only for uneven products
- Locks load to the pallet, throughout shipment without banding or strapping.

Safety

- Eliminates injuries associated with metal banding
- Less back injuries
- Less worker compensation claims



Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Examples

Gearboxes, motors, pumps, car industry subcontractors etc.

•Single units instead of using cardboard box

•Instead of strapping or in addition of strapping for dust / water proof



When high product to pallet retention is needed

•Pavement stones, barrels etc.

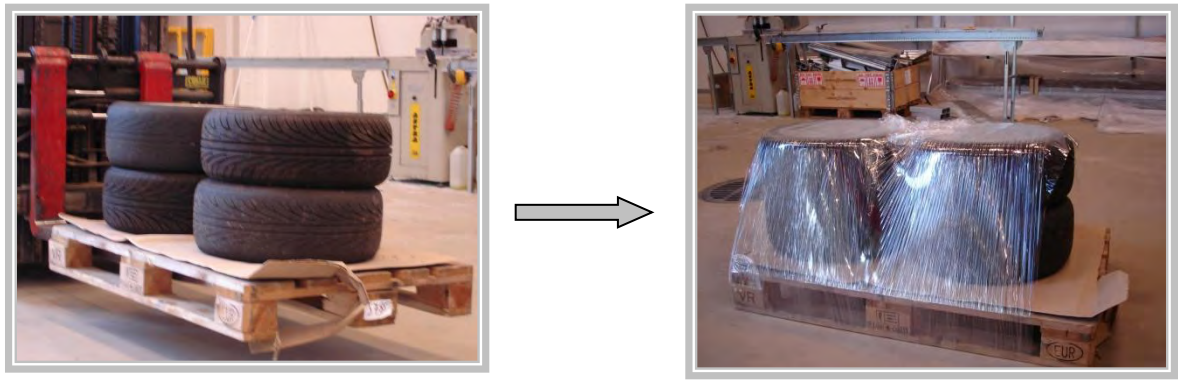


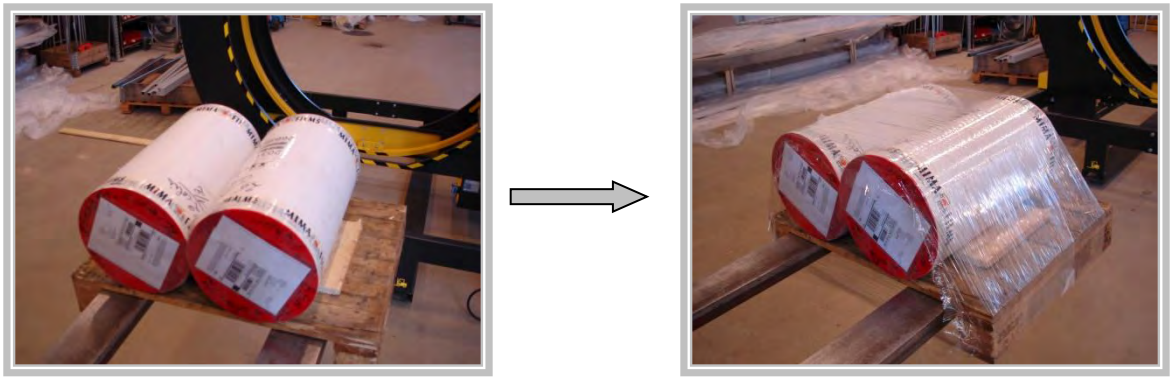
Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Examples

Wrapping of products which can not be wrapped with turn table machines:

•Tyres, cans, cone-shaped products having height of 500mm or less





Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

Examples

Wrapping of small quantity deliveries:

- Equipment manufactures, logistic centres, courier services etc. delivering small quantities of parts.
- Parts which are typically difficult to wrap, and are packed to boxes







YellowJacket® A Business Unit of ITW
MATERIALS Handling
V1.0

Examples

Wrapping of high value products:

- Engineering products to be delivered on pallet
- Parts which are typically difficult to wrap and straps has been used









Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

.....ooops....!



With Yellow Jacket it doesn't matter !



Yellow Jacket®
A Business Unit of ITW
MATERIALS Handling
V1.0

MATERIALS Handling PTY LTD Working with ease...

Our website: www.materialshandling.com.au
Phone us: 1300 65 00 35 Fax us: 1800 68 68 96
Email us: sales@materialshandling.com.au

Australia Wide Sales and Service

Yellow Jacket® A Business Unit of ITW

V1.0