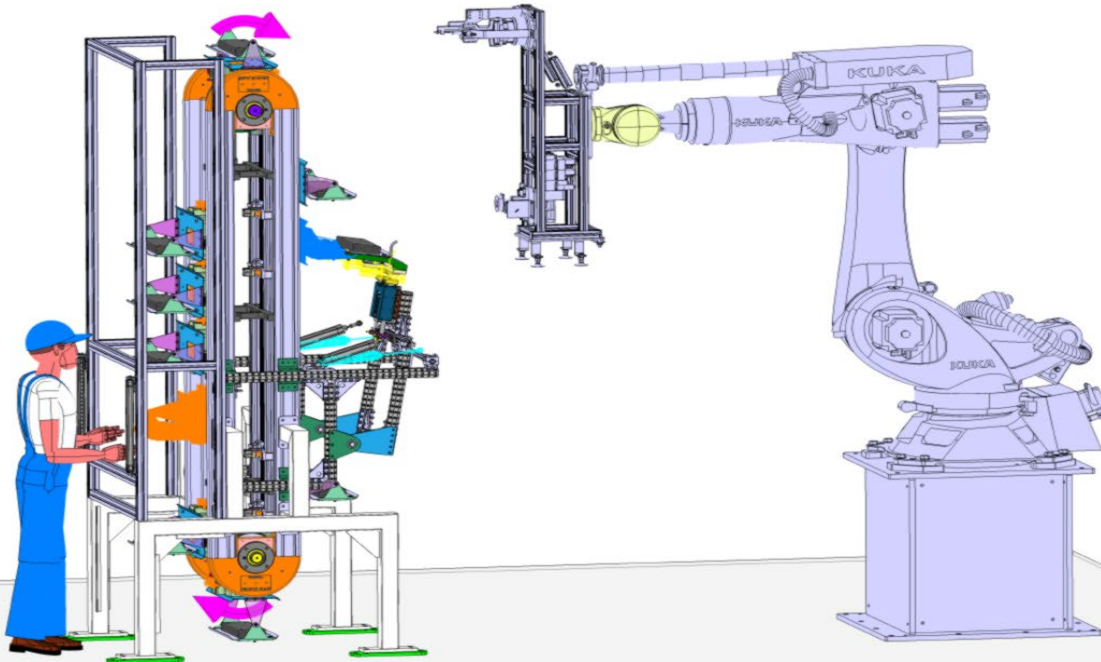


Conveyor Technology

AFSV



Vertical pallet Conveyor

Further development:

- AFS
- *New:* Vertical transport of workpieces

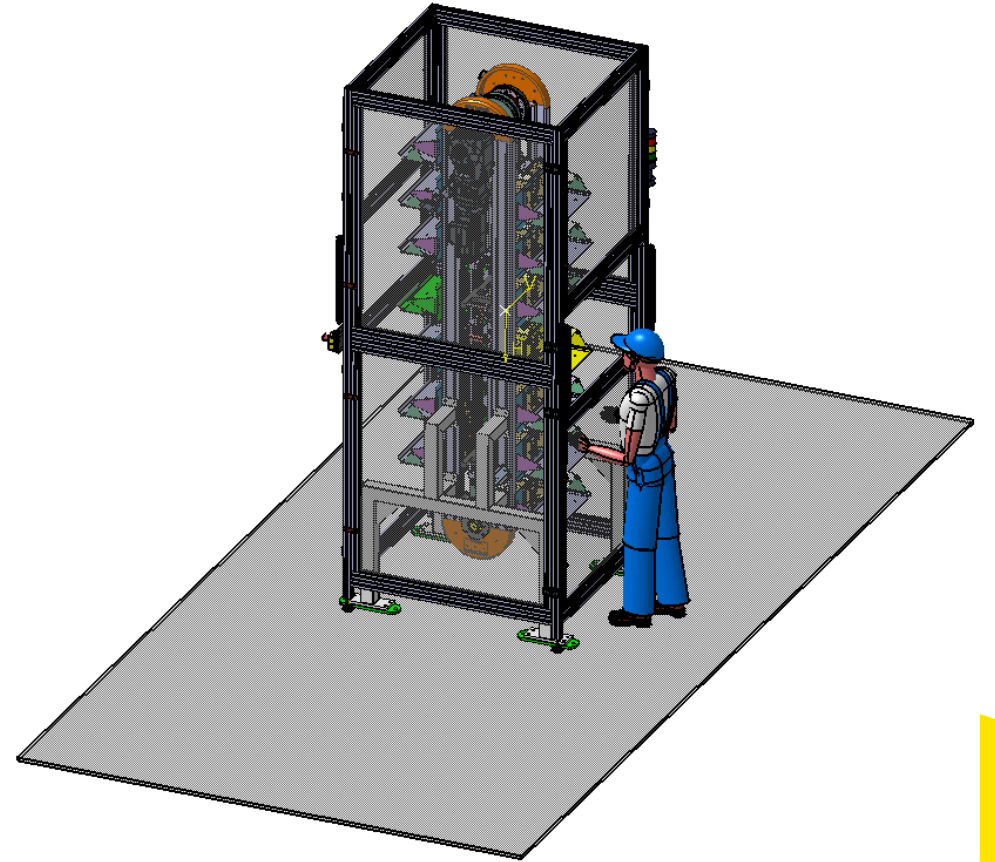


AFS

Vertical Pallet Storage

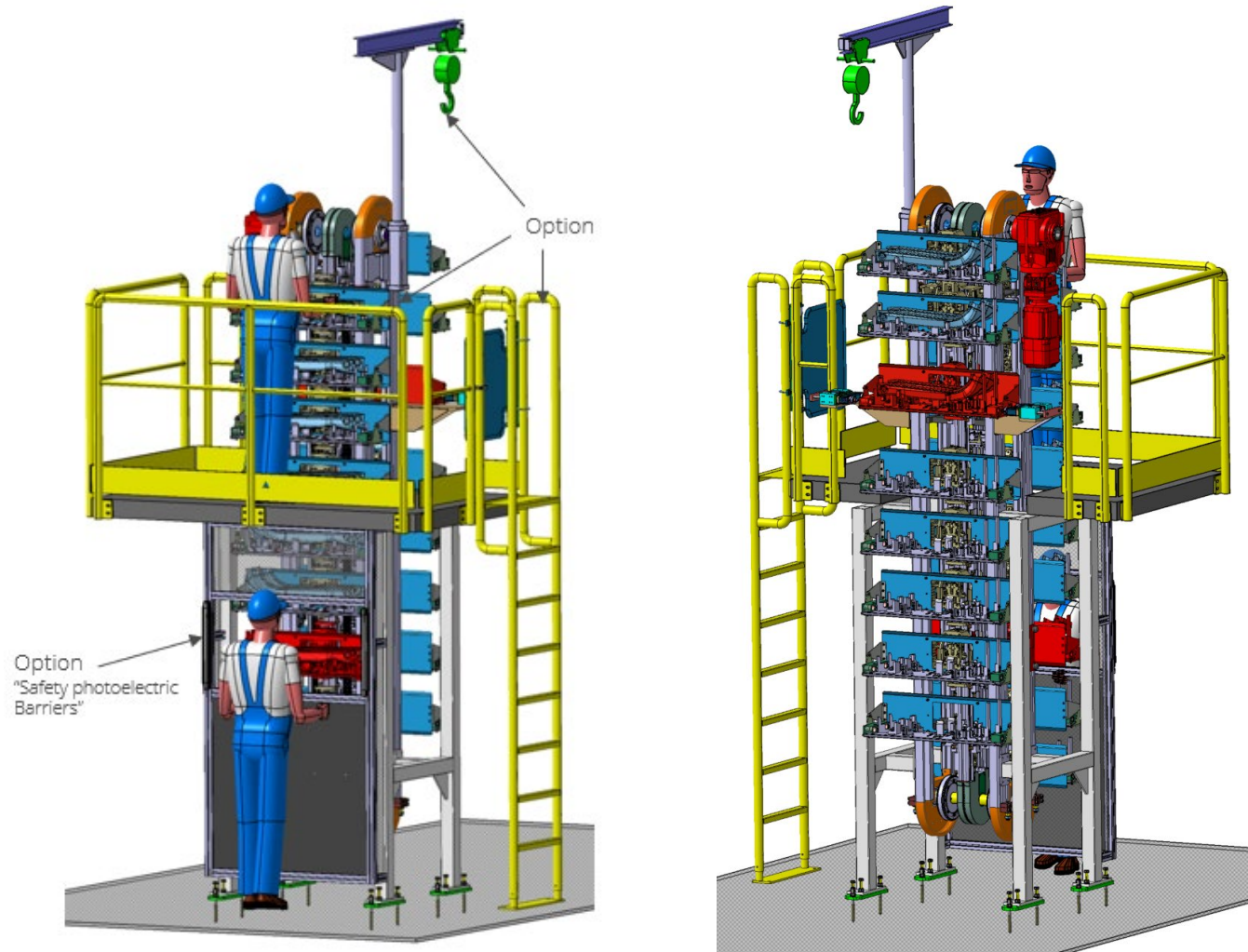
Characteristics:

- Chain-driven vertical accumulative pallet conveyor.
- Chain drive: Pallet gearwheel is driven by the chain.
- Collects pallets in ascending and descending direction.
- Positioning of pallets by means of stoppers (electric or pneumatic).
- Max. load Pallet 50 kg (tooling + part)
- Advance speed = 3 m / min.
- Maximum length : 4 m
- The pallet of the AVV conveyor rotates around its own axis
- *Advantages:*
 - Space saving in Layout
 - accumulative conveyor
 - The pallet can move around the curve with the part



AFSV

Pallet, Tooling and Part Characteristics



1.1kW engine
SEW KH77-R37-DRN90S4-BE2-IS-TF

Operating speed 5.4m/min.

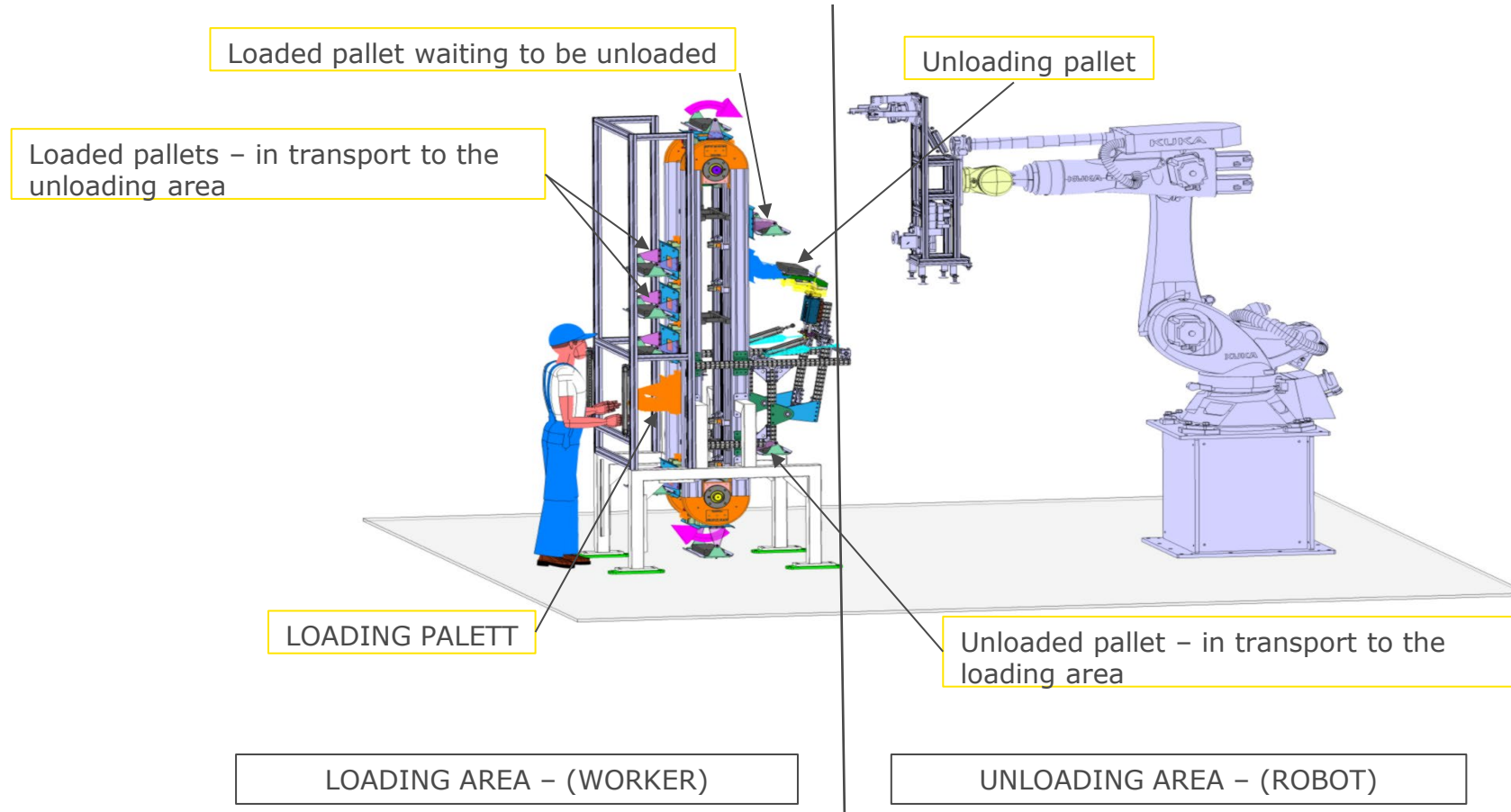
Maximum load on pallets 50Kg
(tooling+part)

The structure design is necessary to support the accumulator and the walkway for maintenance.

The installation of a hoist is necessary for the extraction of pallets and maintenance operations.

AFSV Layout

Loading can be done by an operator, a robot or another mechanism



AFSV

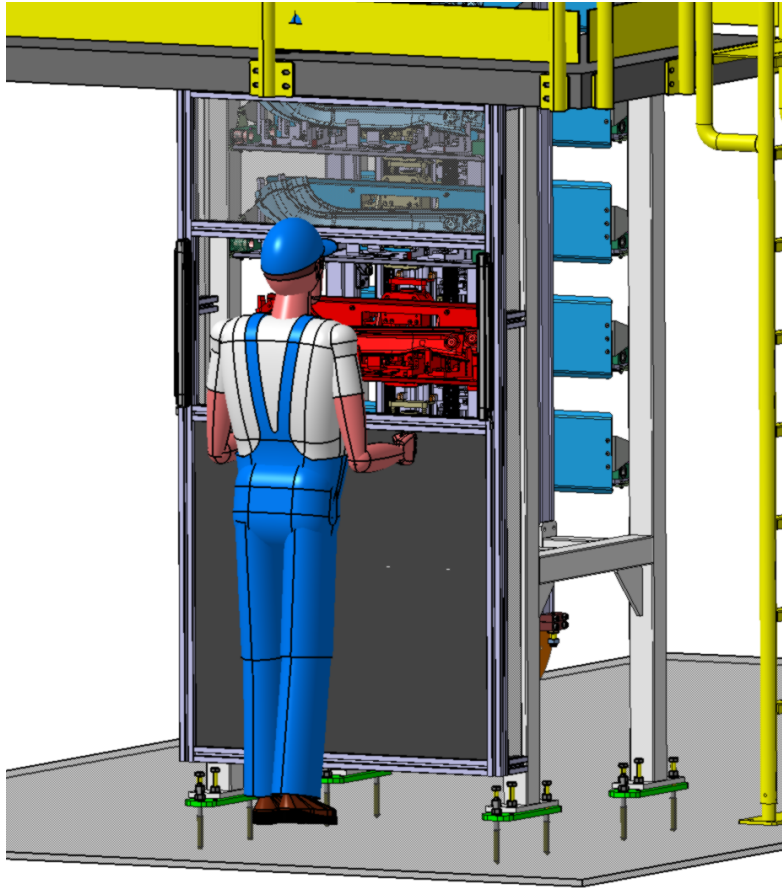
Conveying Direction

Blue arrow shows the conveying direction of the pallet



AFSV

Worker Safety



Reduced space for manipulation by the operator.

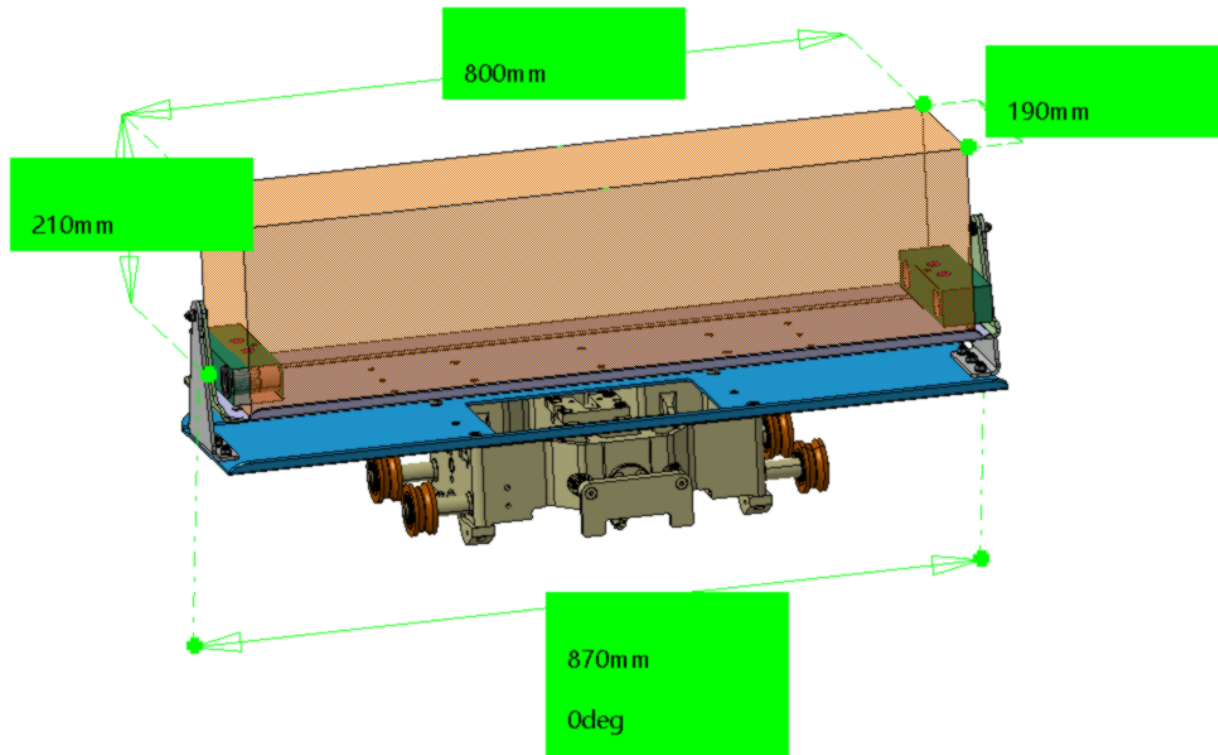
It is necessary to install photoelectric barriers (or safety gate) as a protection element.

The accumulator must be fully protected, due to the rigidity of the mechanical system it cannot be manipulated when it is in operation (great danger of entrapment – it is not possible to stop the pallet with the accumulator in operation).

OPTION: photoelectric barriers (or safety gate) as the Maintenance platform are necessary

AFSV

Pallet, Tooling and Part Characteristics



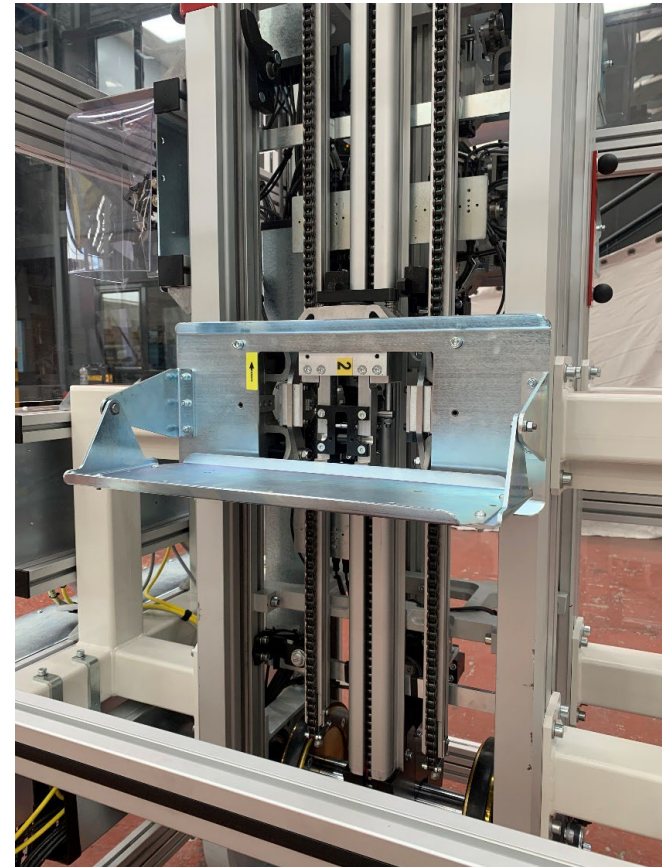
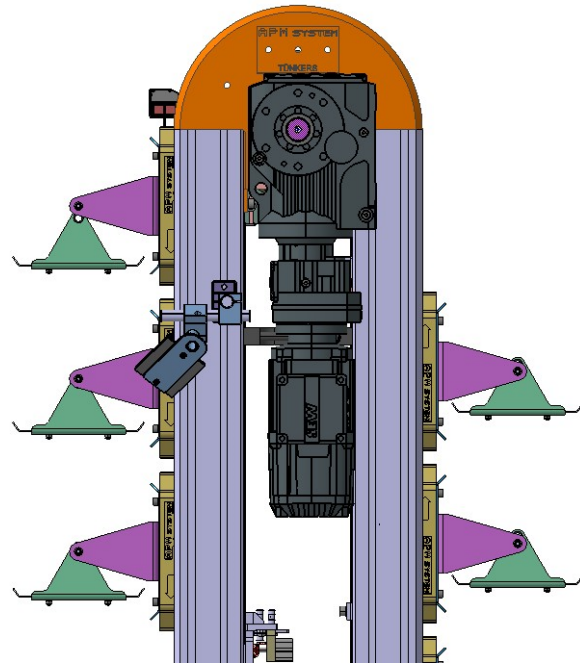
The maximum dimension of the rocker on which the tooling will be fixed is 870mm wide.

It is not suitable for transporting large parts.

The maximum allowable volume for the tooling+part assembly is 800x190x210mm

AFSV

Layout of the pallets



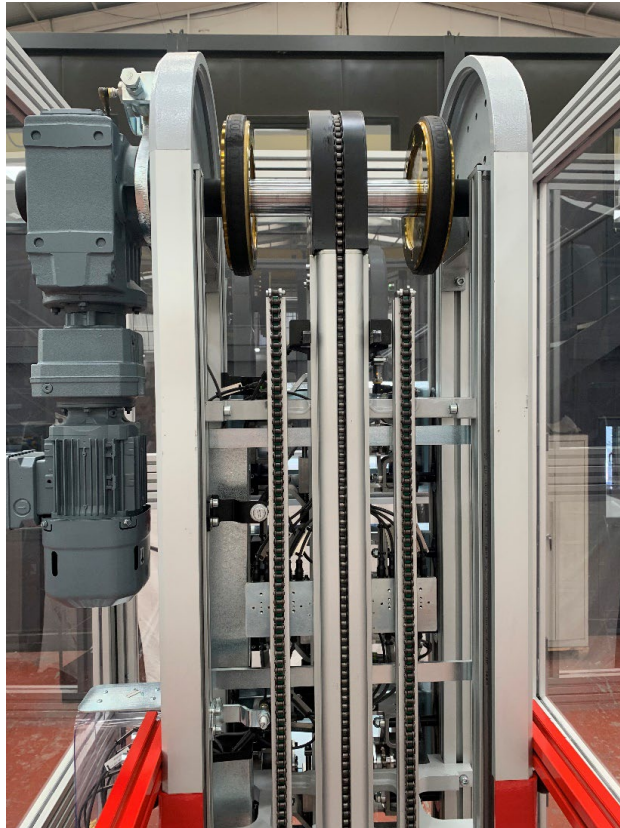
AFSV

Layout of the pallets



AFSV

Drive Head and Redirection



Drive head with motor



Redirection

THANK YOU!

For YOUR Time

Productmanagement Conveyor Technology

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