

FMW

INDUSTRIES

Engineers of progress



Pulp



Paper



Energy



Recycling



Chipboard



Other industries

PULP BALE HANDLING

PULPER FEEDING SYSTEMS



Pulp



Paper



Energy



Recycling



Chipboard



Other industries

Main objectives

High efficiency

Best material preparation

High plant capacities
(230 bales/h=1400 tons/day)

Personnel independent quality
control

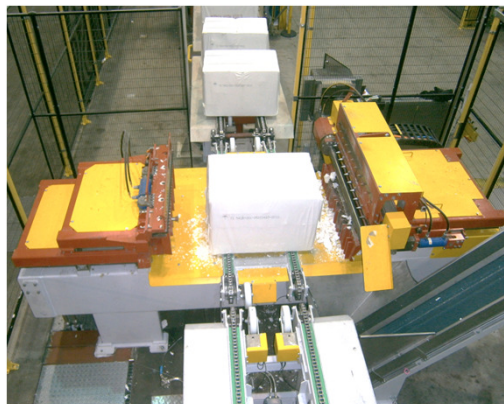
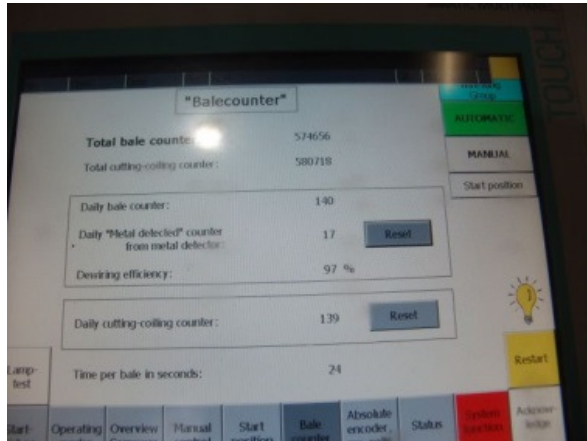
Minimum employment of staff

Safety for personnel

Safety for stock preparation



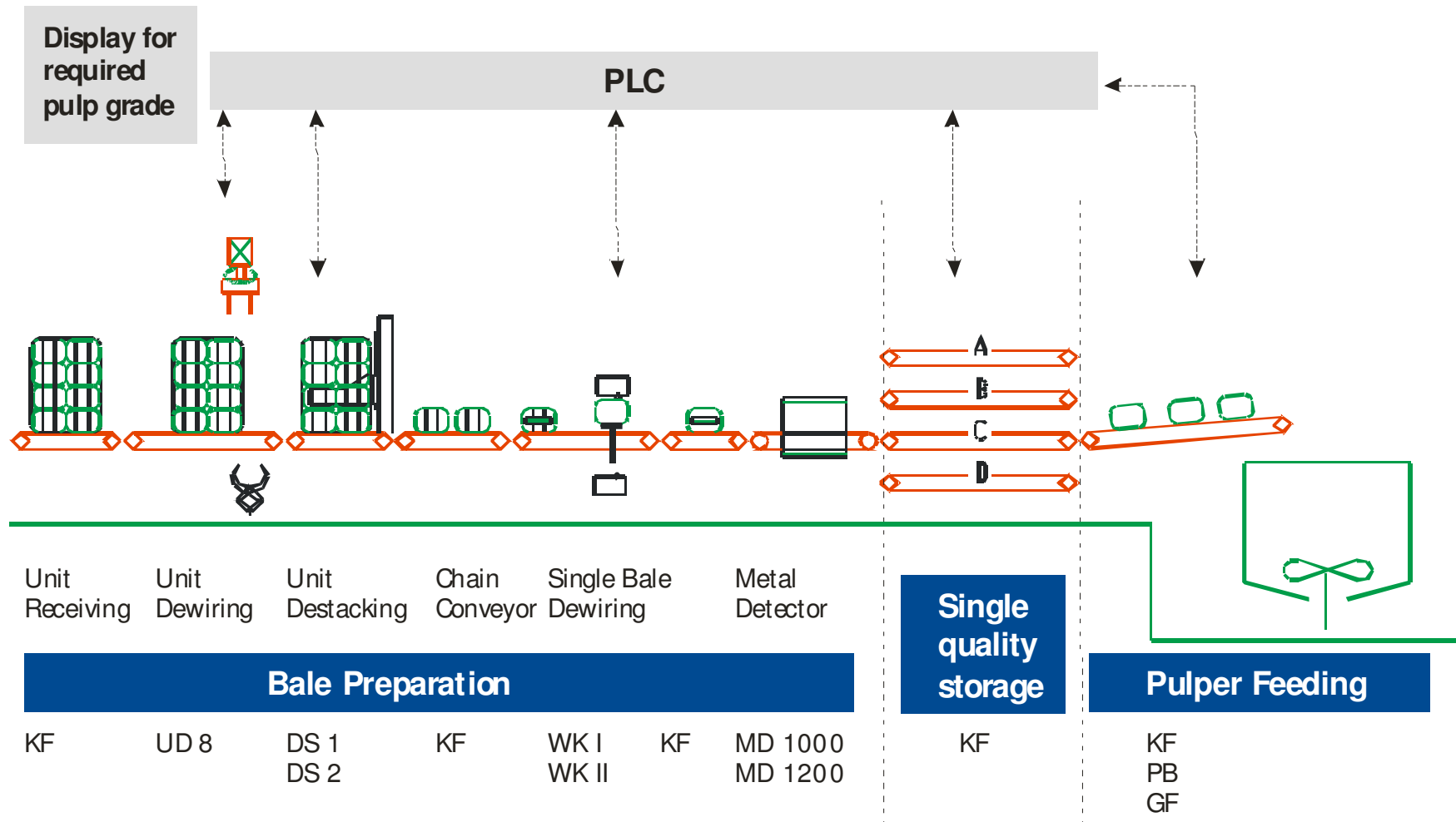
FMW solutions



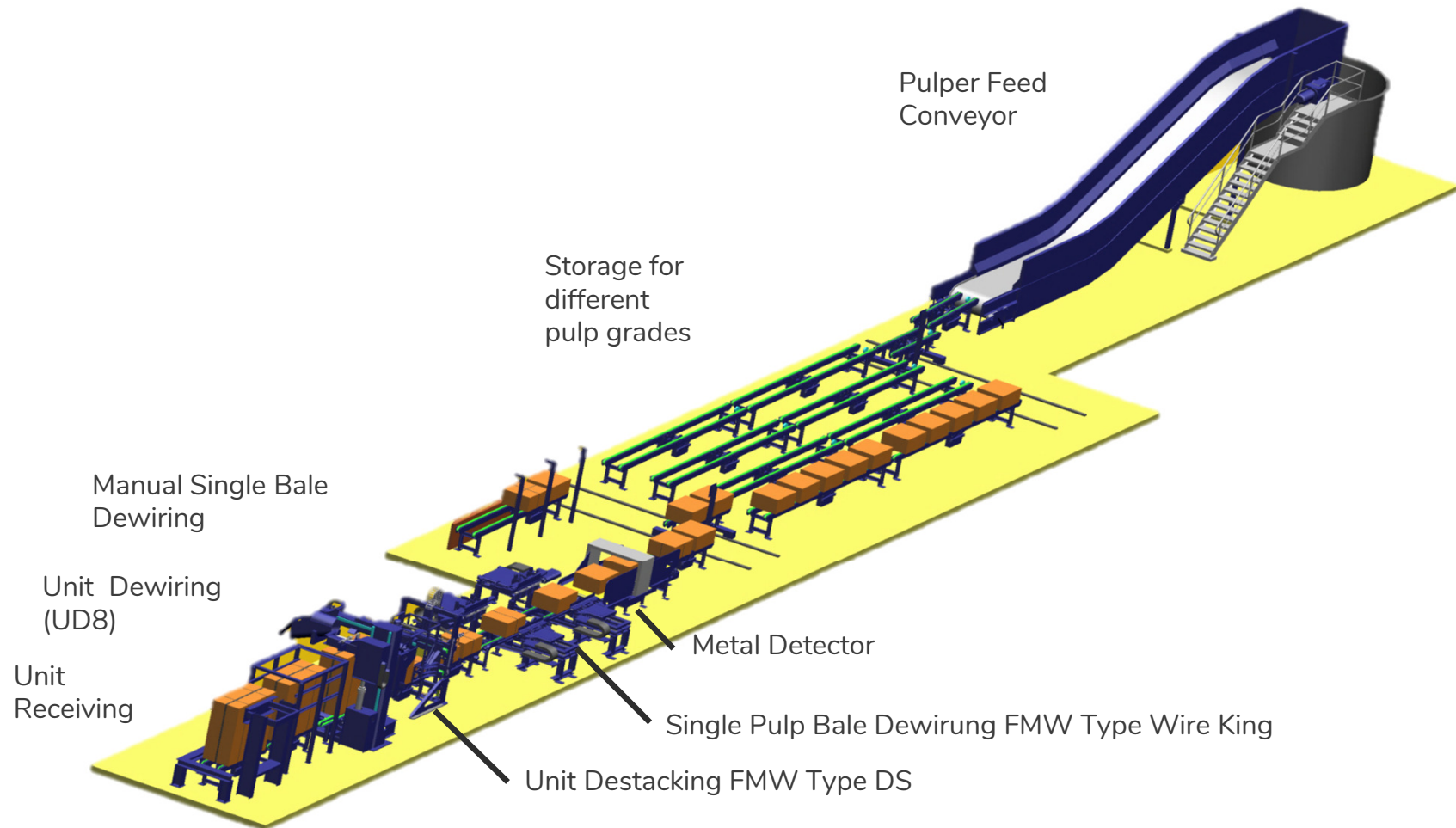
- Automatic Unit-Dewiring
- Automatic Unit-Destacking
- Automatic Single Bale Dewiring
- Grade storage, remote controlled
- Pulper feeding
- PLC system



Automatic pulper feeding with pulp bales



Typical layout



Automatic Unit Dewiring

Type UD-8



Automatic Unit Dewiring

Main requirements



Highest efficiency

Best material preparation

High plant capacities
(units/h=2000 tons/day)

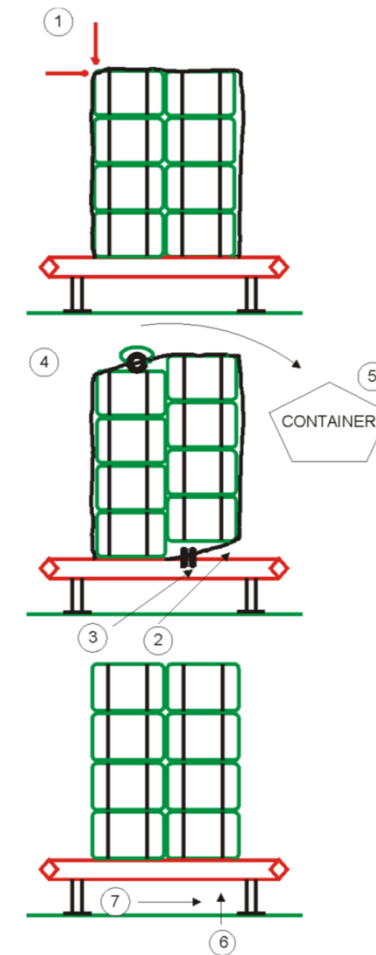
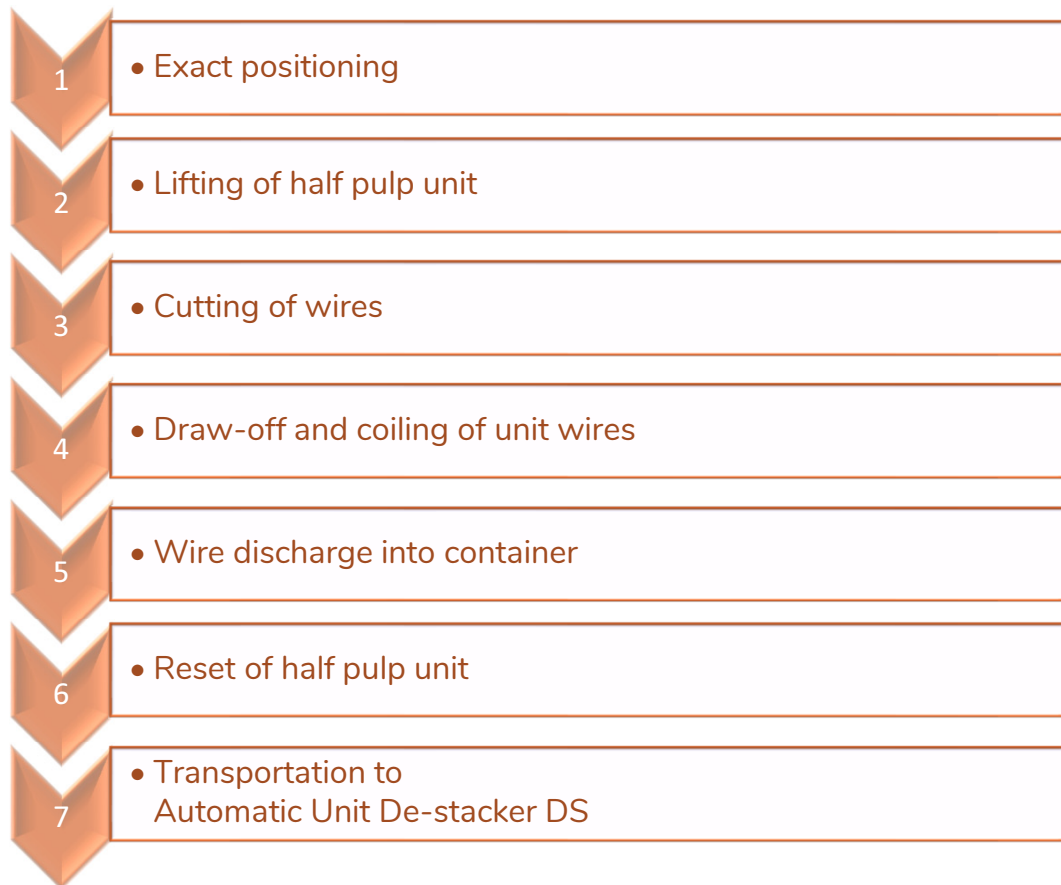
Fully automatic

Highest dewiring efficiency of 99%

Safety for personnel

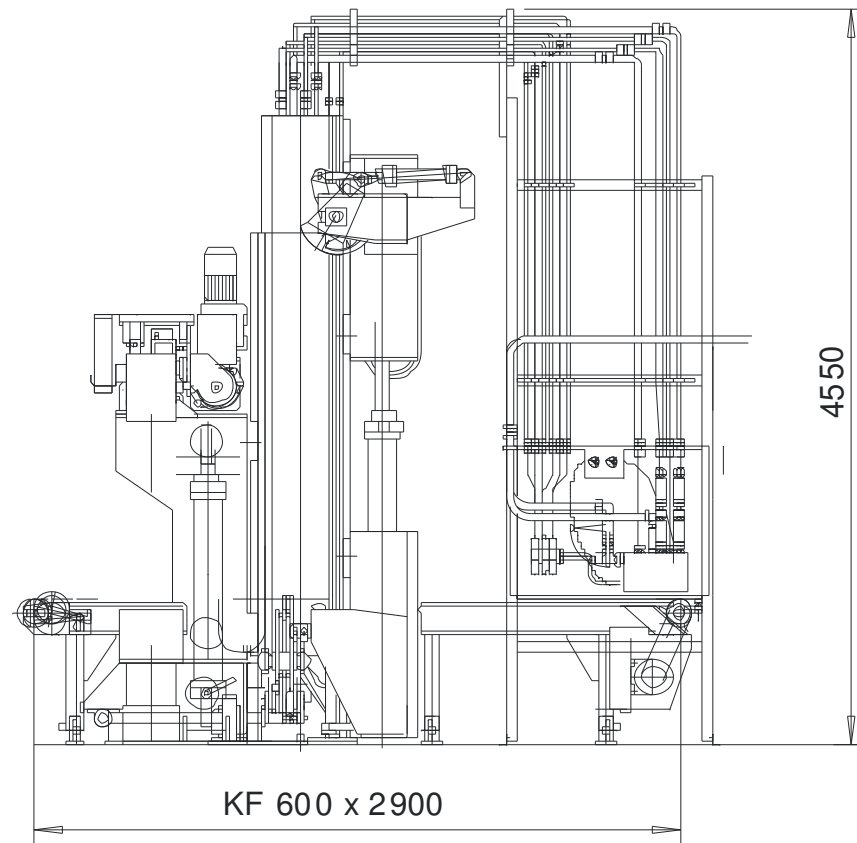
Automatic Unit Dewiring

Working Principle

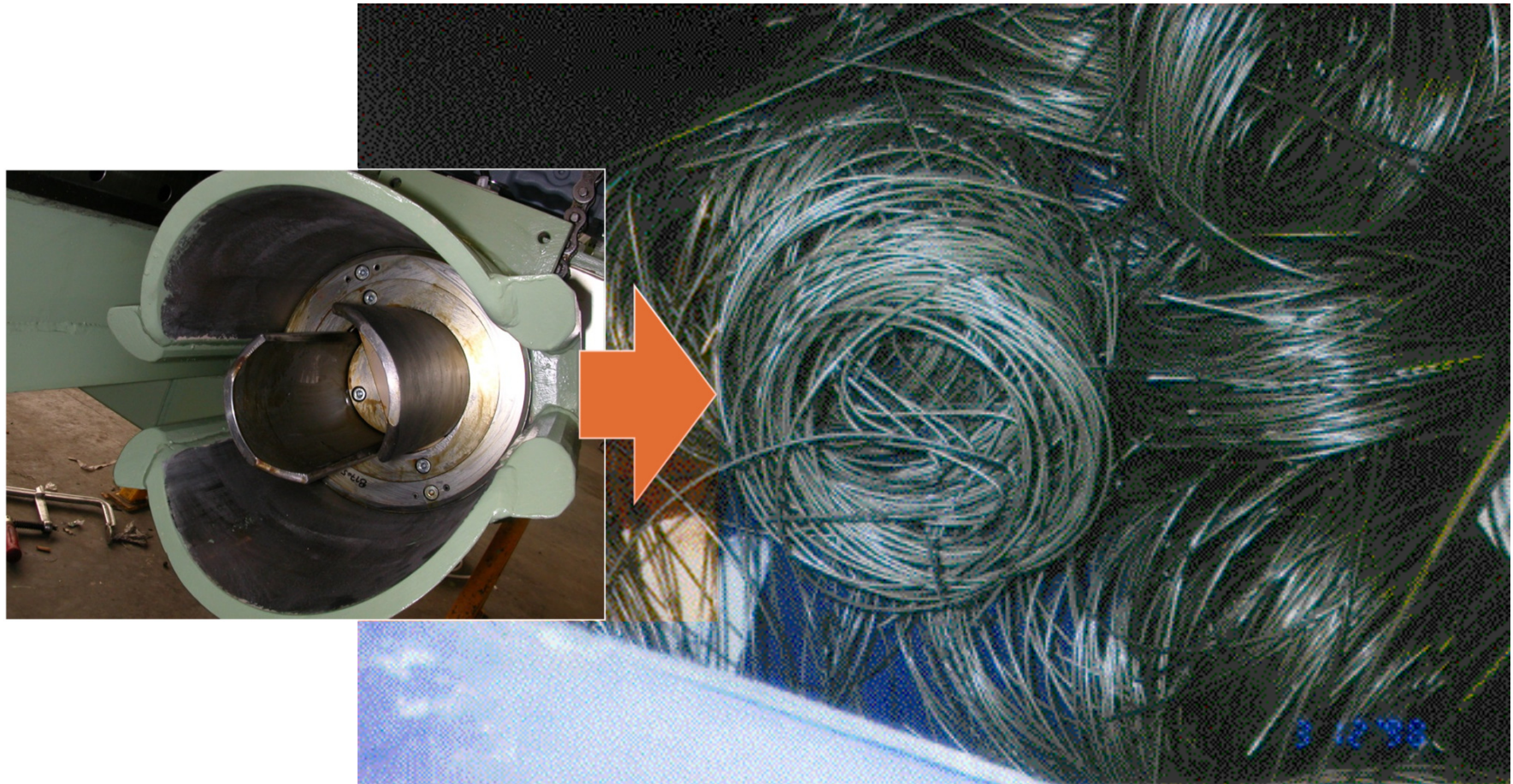


Automatic Unit Dewiring

Machine design

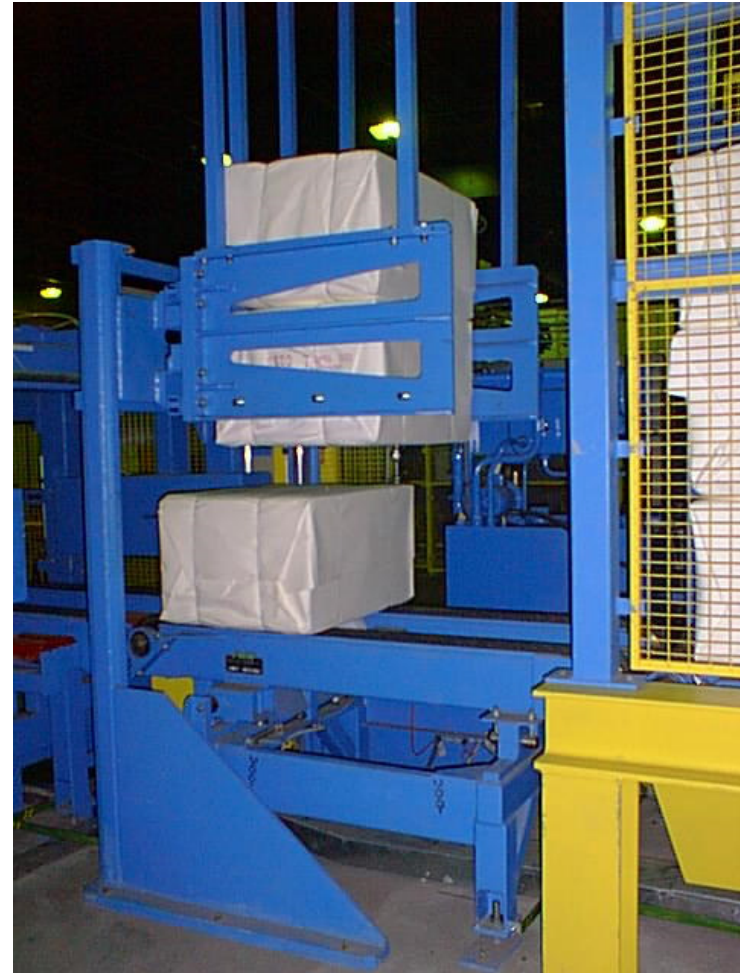


Coils after dewiring



Automatic Unit Destacker

Type DS



Automatic Unit Destacker

Type DS



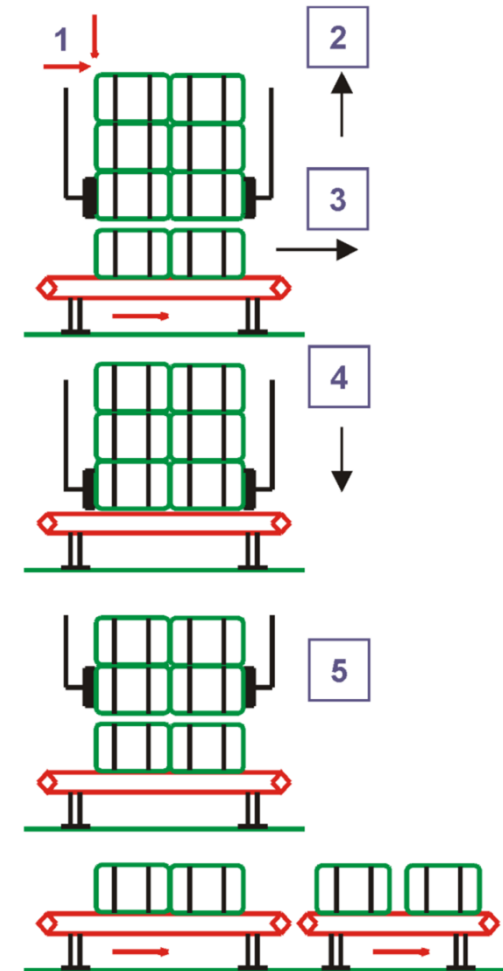
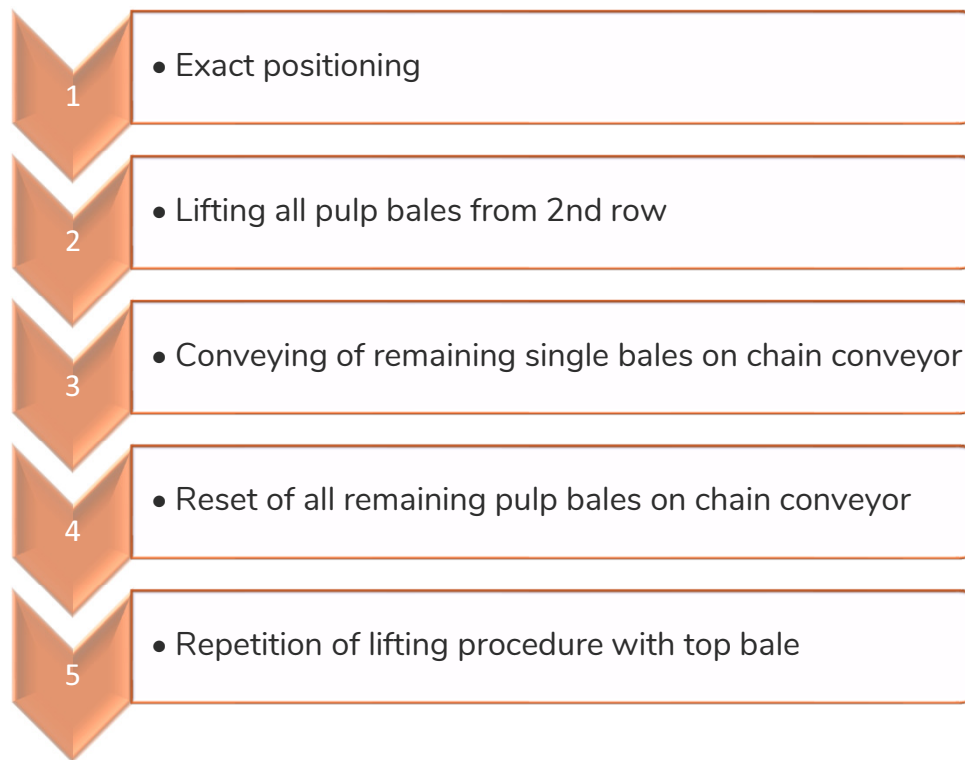
- Highest efficiency
- Best material preparation
- High plant capacities
(30 units/h = 240 bales/h)
- Safety for personnel



Automatic Unit Destacker

Working principle

Depending on capacity and half/entire Unit-Destacking



Automatic Unit Destacker

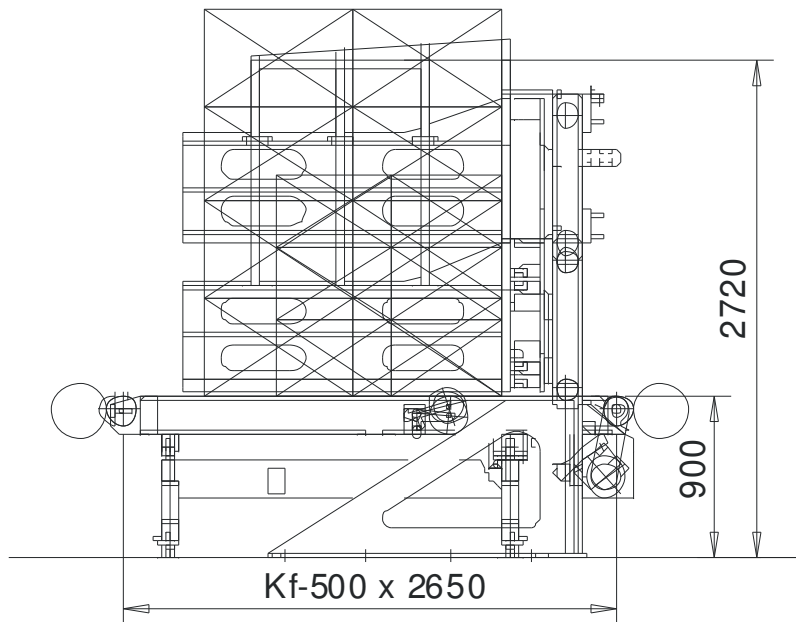
Machine design

DS 1:

- For continuous de-stacking of a half de-wired unit (1 stack) // 80 – approx. 120 bales/h

DS 2:

- for continuous de-stacking of an entire de-wired unit (2 stacks) // approx. 240 bales/h



Automatic Single Bale Dewiring

Type: Wire King



Wire King

Machine Design

Modular design for installation of 1 or 2 units,
depending on capacity:

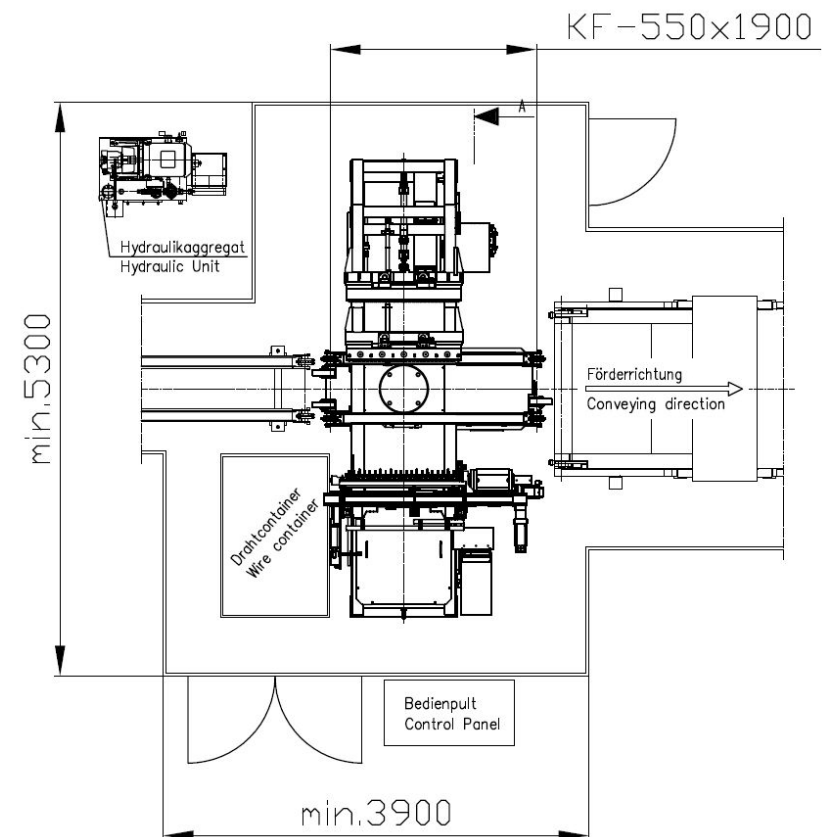
Wire
King I

- 140 bales / h

Wire
King II

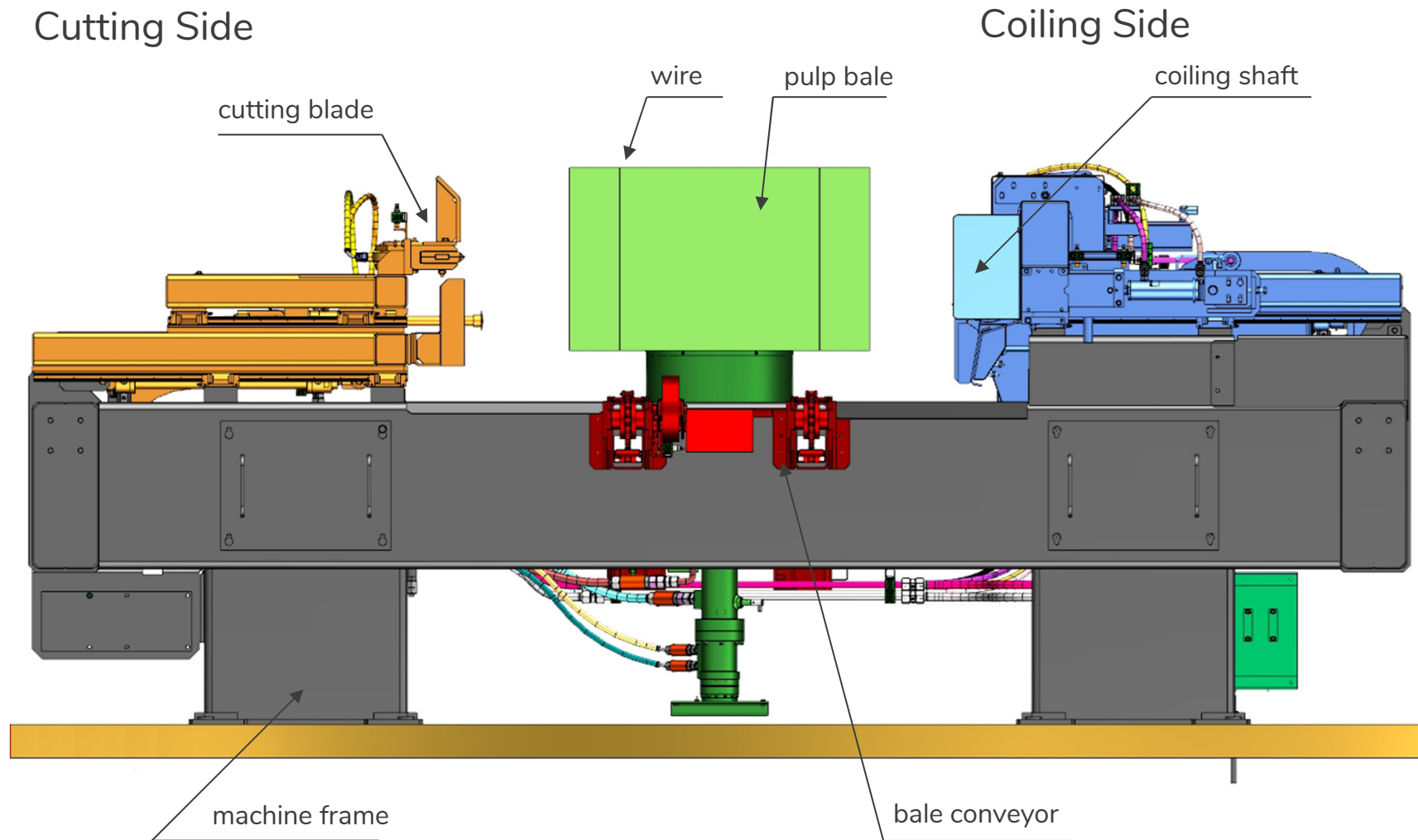
- 230 bales / h

- Positioning of each single bale
- Wires are cut on one site, drawn and coiled on the opposite site
- 90 ° rotation of bale
- Repetition of dewiring procedure



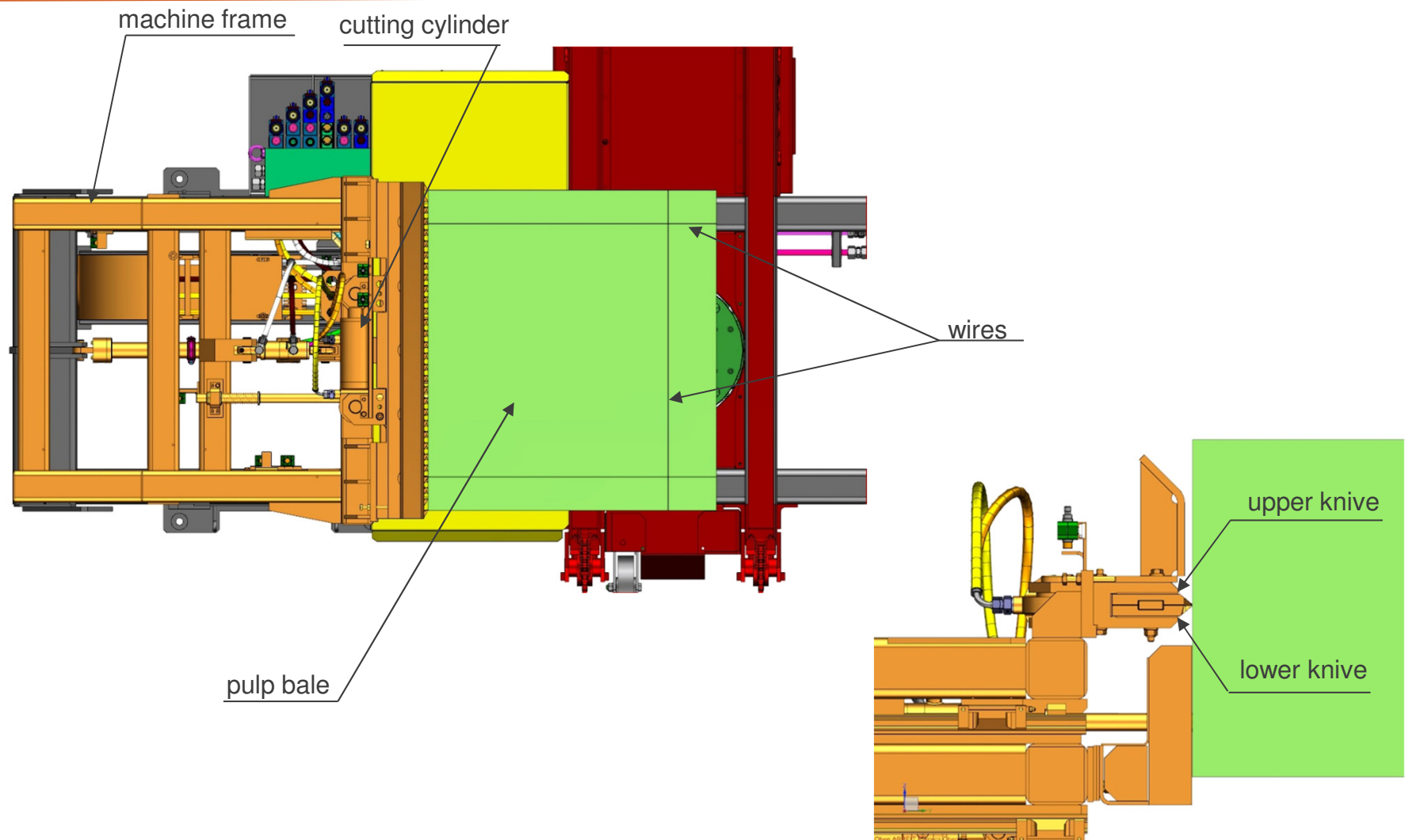
Wire King

Machine Design



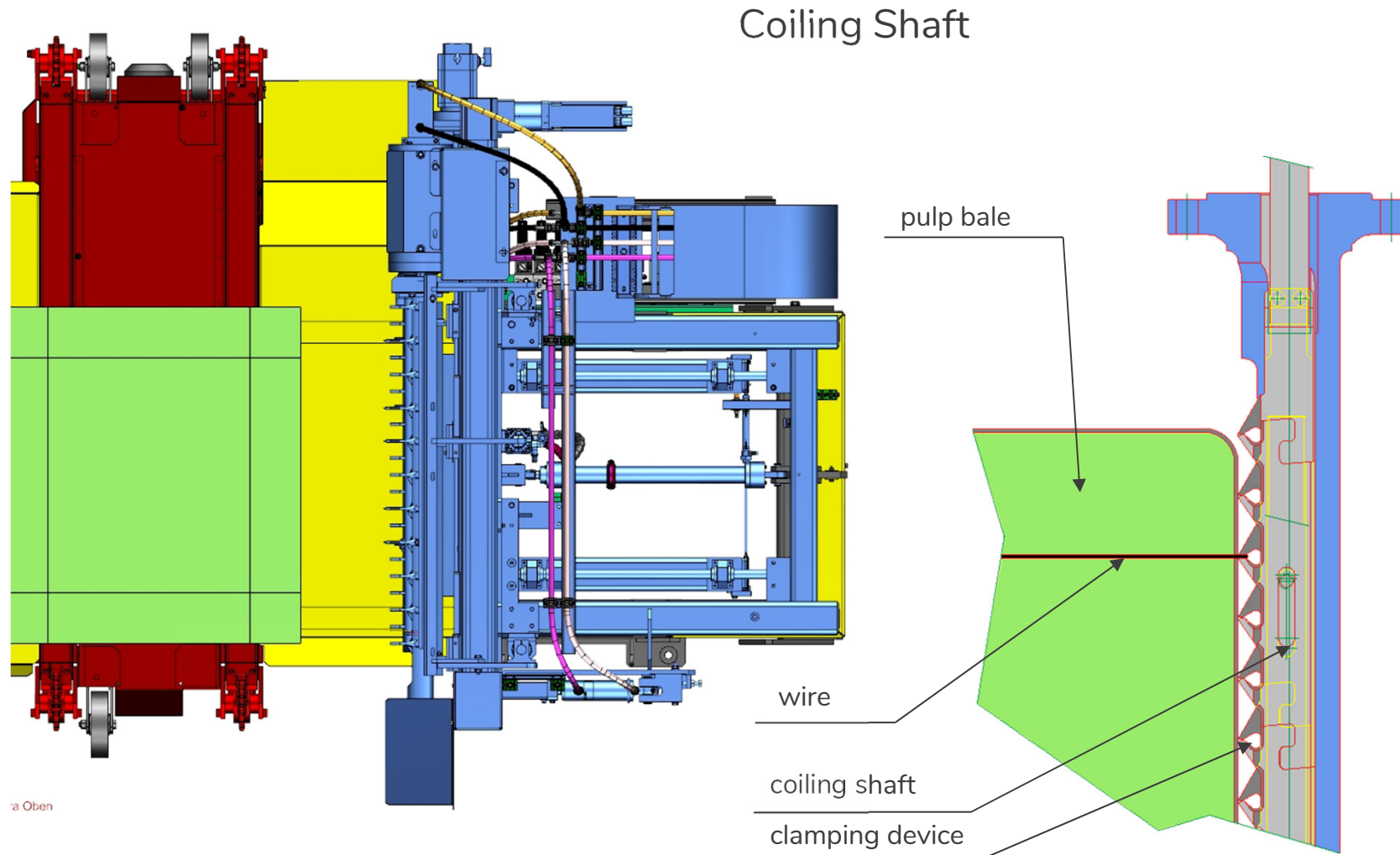
Wire King

Cutting



Wire King

Coiling



Wire King



Cutting device



Coiling shaft with clamping device

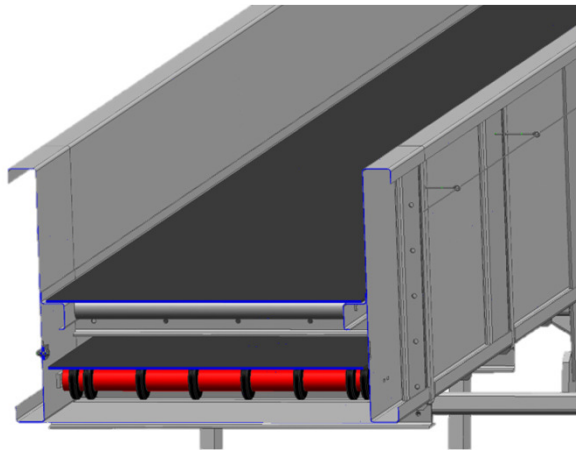
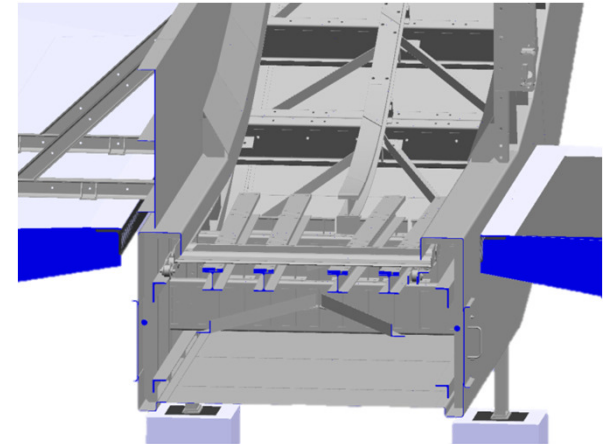


Coils after discharge into container

Conveyors for Pulp Bale

Apron Conveyor, FMW-Type PB:

- heavy duty design
- pulp bales
- steep inclination (max. 25 °)

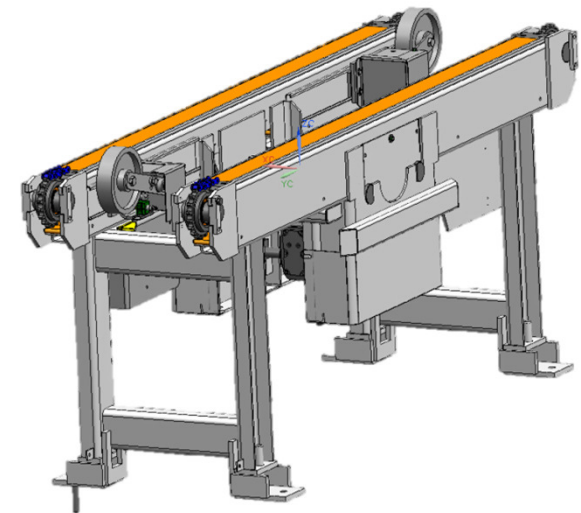


Belt Conveyor, FMW-Type GF:

- heavy duty design
- pulp bales
- long distance transport
- flat inclination, (max. 15 °)

Chain Conveyor, FMW-Type KF:

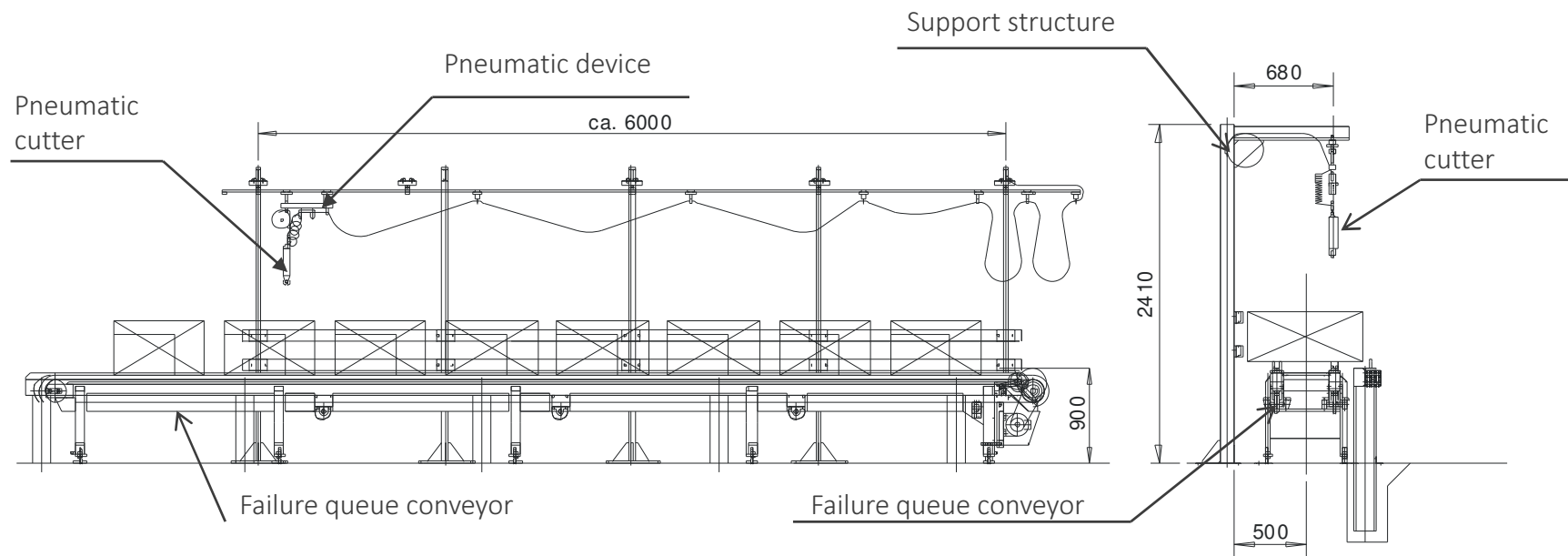
- heavy duty design
- pulp bales
- long distance transport
- flat inclination, (max. 10 °)



Manual Single Bale Dewiring

for manual wire cutting of non-dewired pulp bales

manual dewiring for low production capacities



Manual Single Bale Dewiring



Different Type of Conveyors

Bale lifting

For vertical bale transfer between different floor levels



Shuttle Conveyor

For charging and blending of different grades
For charging of rejected bales to failure queue conveyor



Different Type of Conveyors

Rotating Conveyor

To serve 90° angle take over



Metal Detector

For detecting of broken wires or metal impurities



Different Type of Conveyors

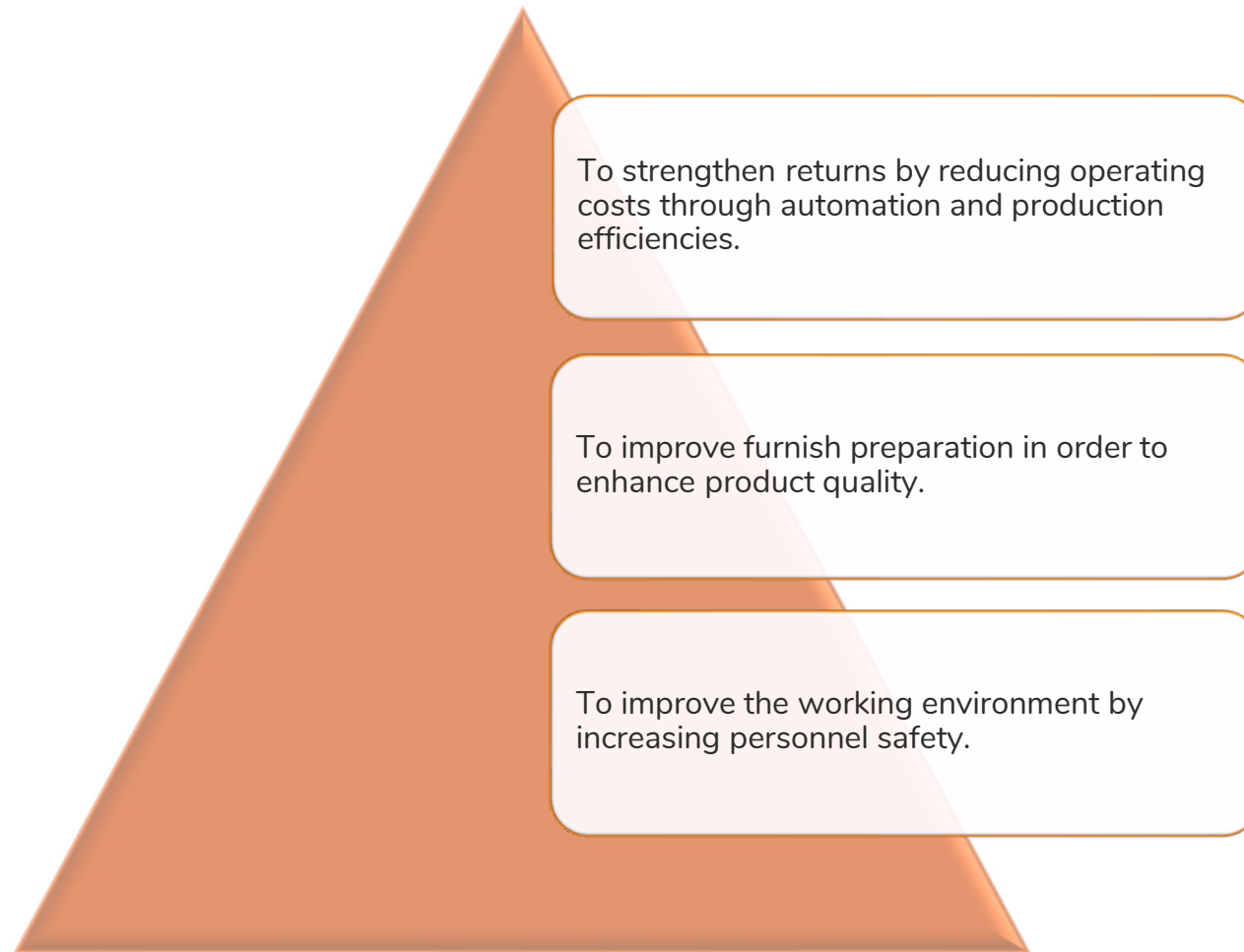
Bale turning device

To rotate bales for 180° for manual uncovering



FMW Pulp Bale Handling

Benefits



Thank you for your attention!



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