FACTS

- Installation height up to 45 m, Payload up to 8,500 kg
- Temperature range – 30 °C to + 60 °C
- Handling of pallets, cases and specialized handling
- Load handling device for every application
- Continuous control conception
- Energy efficient system control
- Approved and derailment-guarded aisle-changing system
- Production according to ropeway standards
STACKER CRANES - OVERVIEW

Manual aisle-bound stacker crane

Manual aisle-changing stacker crane

Automatic aisle-bound stacker crane

Automatic aisle-changing stacker crane
MANUAL AISLE-BOUND

Speed
- Driving: max. 200 m/min
- Lifting: max. 60 m/min

Acceleration
- Driving: max. 0.50 m/s²
- Lifting: max. 0.50 m/s²

Installation height: max. 35 m
Payload: max. 2.5 t

Approach dimension
- Bottom: min. 500 mm
- Top: min. 1,500 mm
  (incl. goods height 1,250 mm)
MANUAL AISLE-CHANGING

Speed
Driving    max. 180 m/min
Lifting    max.  60 m/min

Acceleration
Driving    max. 0.5 m/s²
Lifting    max. 0.5 m/s²

Installation height    max. 35 m
Payload    max. 2.5 t

Approach dimension
Bottom    min. 600 mm
Top    min. 1,600 mm

(incl. goods height 1,200 mm)
ENGINEERS OF FLOW

STACKER CRANES

AUTOMATIC AISLE-BOUND

Speed
Driving  max. 300 m/min
Lifting  max. 100 m/min

Acceleration
Driving  max. 1.2 m/s²
Lifting  max. 1.0 m/s²

Installation height  max. 45 m
Payload  max. 7 t

Approach dimension
Bottom  min. 350 mm
Top  min. 1,500 mm

(incl. goods height 1,150 mm)
AUTOMATIC AISLE-CHANGING

**Speed**
- Driving: max. 200 m/min
- Lifting: max. 100 m/min

**Acceleration**
- Driving: max. 0.7 m/s²
- Lifting: max. 1.0 m/s²

**Installation height**: max. 40 m
**Payload**: max. 5 t

**Approach dimension**
- Bottom: min. 500 mm
- Top: min. 1,600 mm

(incl. goods height 1,150 mm)
RAIL SYSTEM S4I INCLUDING FASTENING

- Current entry for stacker cranes via busbar system
- Buffer stops at the end of the aisle
- Top guard rail as L-profile
- Rail fastening system Gantrex (Gantry connector block, adhesive anchor)
- Plastic component for silencing
- Fixing distance ≤ 1 m
Current entry for stacker cranes via busbar system

Top guard rail as U-profile

Rail fastening with adhesive anchor and shrink-free filling material

Fixing distance $\leq 1$ m (U-Profile is fully casted)

Derailment-guarded aisle-changing system
AISLE-CHANGING SYSTEM

• High level of flexibility in rail guidance
• Maintenance-free system
• No dead time until points are ready for use
• No complex construction – no monitoring element
• Derailment-guarded system
• Boundless driving and lifting action during aisle change
SIEMENS SIMATIC S7

- Well-proven control
- Modular control structure
- Robust and dirt tolerant
- Error-proof and maintenance-free
- Very long product life cycle
- Remote maintenance
DISPLAY ELEMENTS

- Type Siemens KTP, multilingual
  - Key Touch Panel
  - Key Touch Panel for cold storage
  - Touch Panel (optional)

- Serves as operating status displays
- Error indication in clear words
- Error acknowledgement
BAR CODE DISTANCE MEASUREMENT

- Absolute distance measurement
- Operating temperature – 30 to +60 °C
- Robust construction
- Low-end assembly
- Insensitive to contamination
- Easy replacement of the components
CONTROL UNIT MANUAL

- Manual operation (seat, sit-stand chair)
CONTROL UNIT AUTOMATIC

- Operation at control cabinet and on the lifting unit
- Suitable for all temperatures
CONTROL CONCEPT

- Control: Siemens S 7 Safety control
- Bus system: Profinet DP
- Operation panel: Siemens Key Touch Panel
- Distance measurement: Barcode positioning system
- Operation: Joy stick
CONTROL CONCEPT

- Control Siemens S 7
  Safety control
- Bus system Profinet DP
- Communication Network connection
  TCP/IP
- Operation panel Siemens TP with
  fully graphical display
- Distance measurement Barcode positioning system
- Operation Automatic mode
LOAD HANDLING DEVICES

CONSTRUCTIONS

• Telescopic fork
• Rotary fork
• LTW shuttle
• Conveying elements
• Order picking equipment
• Customised equipment
SCOTTY

- Automotive cabin for maintenance and reparation purposes on the stacker crane
- Enhancement of comfort and ease of work without losing any approach dimension
- Possibility of expanding existing installations
- Control: wireless remote control