

## OR-T 231-C2LF

# Automatic strapping machine Vertical strapping



### Customer benefits

Characteristics	Customer benefits
Segmented track system	<ul style="list-style-type: none"><li>· Strap infeed at all heights possible, fast strapping cycle</li></ul>
Longitudinal machine movement unit for strapping programmes	<ul style="list-style-type: none"><li>· Vertical strapping without displacing the pallet load, high flexibility</li></ul>
Adjustable, electronically controlled strap tension With floating head	<ul style="list-style-type: none"><li>· Maximum product securing during transportation thanks to balanced strap tension around the package</li></ul>
User-friendly control panel with push buttons and display	<ul style="list-style-type: none"><li>· Easy operation</li><li>· Secure continuous duty</li></ul>
Robust and proven design with first class industrial components	<ul style="list-style-type: none"><li>· High availability</li><li>· Low maintenance cost</li></ul>

# OR-T 231-C2LF

## Technical Data



### Machine

<b>Strapping cycle time</b>	Per strap approx. 17 s
<b>Strap tension</b>	Head OR-T 230: 200–2200 N Head OR-T 240 (Option): 500–5000 N Adjustable by potentiometer, electronically controlled Floating head ensures equalised strap tension around package
<b>Strap tensioning way of the strapping head</b>	200 mm (head OR-T 230) Unlimited (head OR-T 240)
<b>Carriage vertical speed</b>	Approx. speed 160 mm/s
<b>Sealing method</b>	Heat weld sealing system for PP and PET, simple adjustment
<b>Conveyor height</b>	From 430 mm

<b>Machine movement unit</b>	For various vertical strapping positions (adjustable with cams) Movement distance: 1400 mm Movement speed: ca. 300 mm/s
<b>Arch dimensions</b>	See page 4
<b>Lance</b>	For Euro pallets
<b>Strap dispenser</b>	Strap dispenser with accumulator mounted on machine
<b>Strap end</b>	Automatic strap end detection
<b>Colours</b>	Frame: Blue, RAL 5012 Movable parts: Yellow, RAL 1023 Control desk: Grey, RAL 7035
<b>Electrical supply</b>	400 VAC, 50 Hz, 3PE Rated power 4 kW
<b>Machine weight</b>	Approx. 1700 kg

### Conveyor

The conveying systems is not part of the OR-T 231-C2LF machine

### Control system

#### Stand alone control desk

- The Man Machine Interface consists of
- Main switch and Emergency push button
  - Push button for various start functions
  - Selector switches for machine mode and program
  - Potentiometer for strap tension selection
  - Indicator lamp for machine on condition indication
  - Numerical display for machine condition indication

#### Standard strapping programs

- Service
- Manual
- Automatic
- Pass through

On automatic operation the strapping positions adjusted by cams are carried out

#### PLC Simatic S7-300

#### Interface, signal exchange

All signals for exchange must be potential free

#### The strapping machine is able to receive the following signals

- Start of the selected strapping program
- Confirmation: Conveyor not in move
- External Emergency-Stop is activated
- External safety clear (light barriers, access door etc.)

#### The strapping machine sends the following signals

- Strapping program completed (automatic mode)
- Enabled conveyor motion
- Activated emergency-Stop on the strapping machine

Detailed description "Signal Exchange" available

### Strap

<b>Polyester (PET)</b>	Width	12, 16, 19 mm
	Thickness	0,56–0,8 mm
<b>Polypropylene (PP)</b>	Width	12, 16, 19 mm
	Thickness	0,7–0,85 mm

<b>Core size</b>	Ø	406 mm
	Width	152 mm

## Features



### Simple operation

User friendly control panel



Numerical display for machine condition indication



### Segmented track system

Strap infeed at all heights possible



### Maximum product securing during transportation

Adjustable strap tension, electronically controlled, floating head for balanced strap tension around the package



### Long life cycle and low maintenance cost

First class industrial components, e.g. SEW motors, powered by frequency controller for fast movement and precise control

## Options

### Top compression

2000–6000 N, fully adjustable

### Strapping head OR-T 240

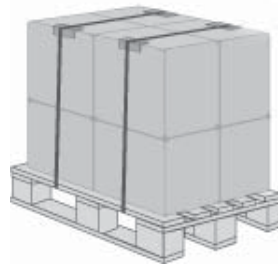
(instead of OR-T 230)

For high tension applications (500–5000 N)



### Top edge protector device "SE"

See drawing 1884-300-052 and STX SE 03 02 10  
Warning min. corner in magazine (not in combination with top compression)



### Min. package height 200 mm (incl. pallet)

For machine with sword, instead of min. 450 mm

### Max. package height 2350 mm (incl. pallet)

Instead of max. 1350 or 1850 mm

### Strap end pre-warning

To ensure short machine downtimes when changing coils



### Flash light

General fault signal with red indicator lamp



### Control components for one conveyor

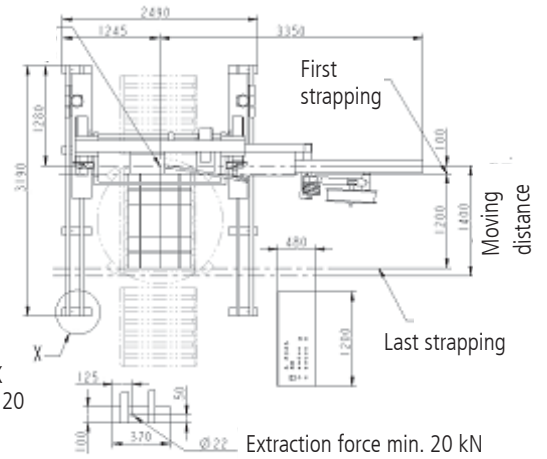
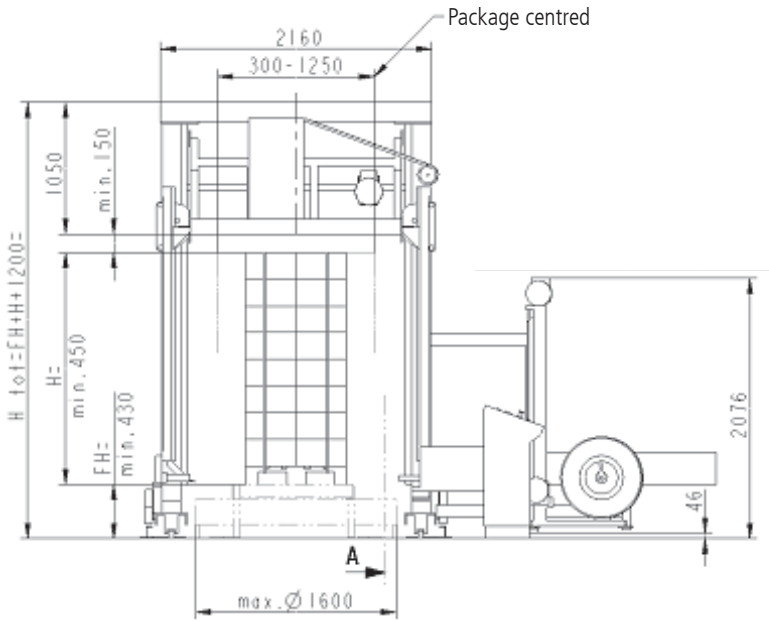
Consists of  
– Two outputs for one motor (0,7–1,1 kW)  
– Three inputs for light barriers

Without software  
Control components also available for rotary table



### Programms for strapping positions

Teach-In System (in lieu of cams)  
9 or 19 programs for 1–6 Ppositions



Detail X  
Scale 1:20

**Arch dimensions  
OR-T 231-C2LF**

Package width	300-1250	300-1650	300-2250
	(W* = 1250)	(W* = 1650)	(W* = 2250)
<b>Package height</b>			
<b>450-2350</b> (H = 2350)			
<b>450-1850</b> (H = 1850)			
<b>450-1350</b> (H = 1350)			

- Standard
- Special

H = Arch height  
W = Arch width

\* Max.

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