

OR-M 550i / 555i

TECHNICAL DATA SHEET

Fully automatic strapping machine



TECHNICAL DATA

Heat weld sealing			
Preheating time	30 s		
Electrical supply	Single phase AC 230 V / 50 Hz, 1PNE and 115 V / 60 Hz, 1PNE Tolerance -15%/+20% Mains fuse 10 AT		
Performance	at 225VAC		
	Modus Sleep	Modus Stand-by	Modus Oper. Max.
Watt	50 W	70 W	607 W
Volt Ampere	53 VA	78 VA	622 VA
Reactive Power	19 VAR	33 VAR	193 VAR
Power Factor	PF 0,61	PF 0,82	PF 0,98
COS Phi	0,94	0,91	0,99
Ampere	0,28 A	0,38 A	3,0 A
Room temperature	5 - 40°C		
Relative humidity	10 - 85%		
Cycles per minute up to* (without conveyor)	70/min.		
Working heights	see layout on page 4		
Conveyor	driven conveyor belt		
Conveyor speed, stepless	5 - 45 m/min		
Machine weight	280 kg		
Quality	stainless steel		
IP- Protection level	IP 56 / DIN 60529 + IPX9K / ISO 20653		
Packages			
Width x height min.	100 x 50 mm		
Width / height max., Arch dimension	./ 50 mm		
Length min.	200 mm		
Weight max.	35 kg		
Plastic Strap (PP)			
Strap width	5 mm 9 mm 12 mm		
Strap thickness	0,40 - 0,60 mm		
Strap coil, Ø inside/outside	200 mm / 430 mm		
Strap tension	5 mm 300 N 9 - 12 mm 450 N		

The polypropylene straps used for the respective applications must correspond with the strap specifications recommended!

*Performance: Depends on arch and package dimensions, conveyor speed, package distances and strap tension.

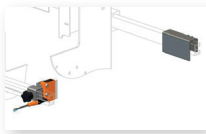
STANDARD EQUIPMENT

- Adjustable conveyor height
- Fold-out belt conveyor system
- Four swivel castors with brakes
- Closed strap arch system
- Heat seal
- Automatic strap feeder
- Automatic strap end ejection
- Strap loop ejection for cycles without product
- Cycle counter
- Electronic control system with micro-processor + Siemens S7-1200 PLC, free memory capacity for peripheral modules
- Emergency off
- Dispenser position: Side mounted
- Electrical power cable, 5 m
- Basic photocell
- for detecting and positioning the packages
- Operation / indication
 - Control panel, mounted on dispenser side
 - Graphic display for program selection and strap spacings
 - Error message display
- Interface
 - 24 pin Harting connector
 - Output signals (potential free)
 - Ready signal to feed conveyor
 - General fault signal
 - Input signal (potential free)
 - Ready signal from follow-on conveyor

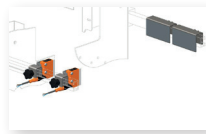
ARCH DIMENSION

Machines	Strap width	Arch dimension Width x Height	Strap tension
OR-M 550i / 555i	5 mm	650 x 500 mm	300 N
	9 / 12 mm	650 x 500 mm	450 N

OPTIONS



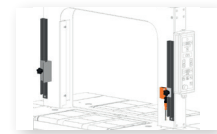
■ **Strapping middle of packet**
Independent of their position, the packets are strapped 1x automatically in the middle



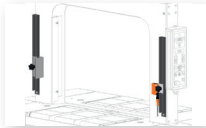
■ **Mixed operation**
Independent of their length (x), the packets are strapped 1x automatically in the middle (< x), or several times (> x).



■ **First strapping position**
Fixed parallel strapping The edge distance for the strapping position is set by moving the photocells in front of and behind the strap line.



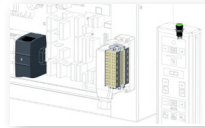
■ **2nd strap tension**
If the packet exceeds or does not meet the pre-set light barrier height, a second, pre-set strap tension will be applied



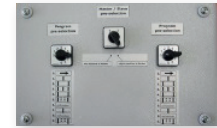
■ **Strapping Yes / No**
If the packet exceeds or does not meet the pre-set light barrier height, the strapping is automatically suppressed.



■ **Conveyor stop**
When packets are no longer being fed into the machine, the conveyor switches off automatically after 10 seconds until a new packet runs in



■ **External program selection**
External selection of the different strapping programs via BCD-Code (S7-1200) generated by the customer



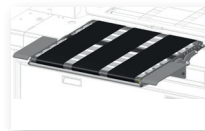
■ **Tandem control box**
Permits a controlled program sequence of 2 successively positioned automatic strapping machines
Failure redundancy
For an increased productivity



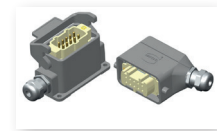
■ **Package stop**
For aligning packets for the first strapping position. Fixed distance to the strap line via spacer.
Stroke / passage height 320 mm



■ **Hold-down device H500, stainless steel**
Pneumatic hold-down device
For holding or compressing packages and loose bundles



■ **Conveyor extension 245 mm**
The belt conveyor system can be extended by 125/245 mm each on the infeed and outfeed sides



■ **Interface plug**
Freely assignable adapter connector (10-pin Harting connector), for connecting the machine interface and the existing installation



■ **Signal lamp 3 colors**
Visual information of the different machine states



■ **2nd Emergency Stop**
Additional external Emergency Stop switch. Connection via interface.



■ **Working height**
Working heights outside the standard range

■ **Strap end pre-warning**
Signal via interface if the diameter of the strap dispenser falls below the pre-set value

■ **High strap tension 600 N**
For strap tension up to 600 N

■ **Fixable feet, stainless steel**
The machine can be securely supported in the floor via the adjustable feet

Signals:

■ **Conveying in and out**
Signal via interface for cycling the upstream or downstream conveyor systems

■ **Machine to automatic**
Signal via interface if the machine is operated in automatic strapping mode

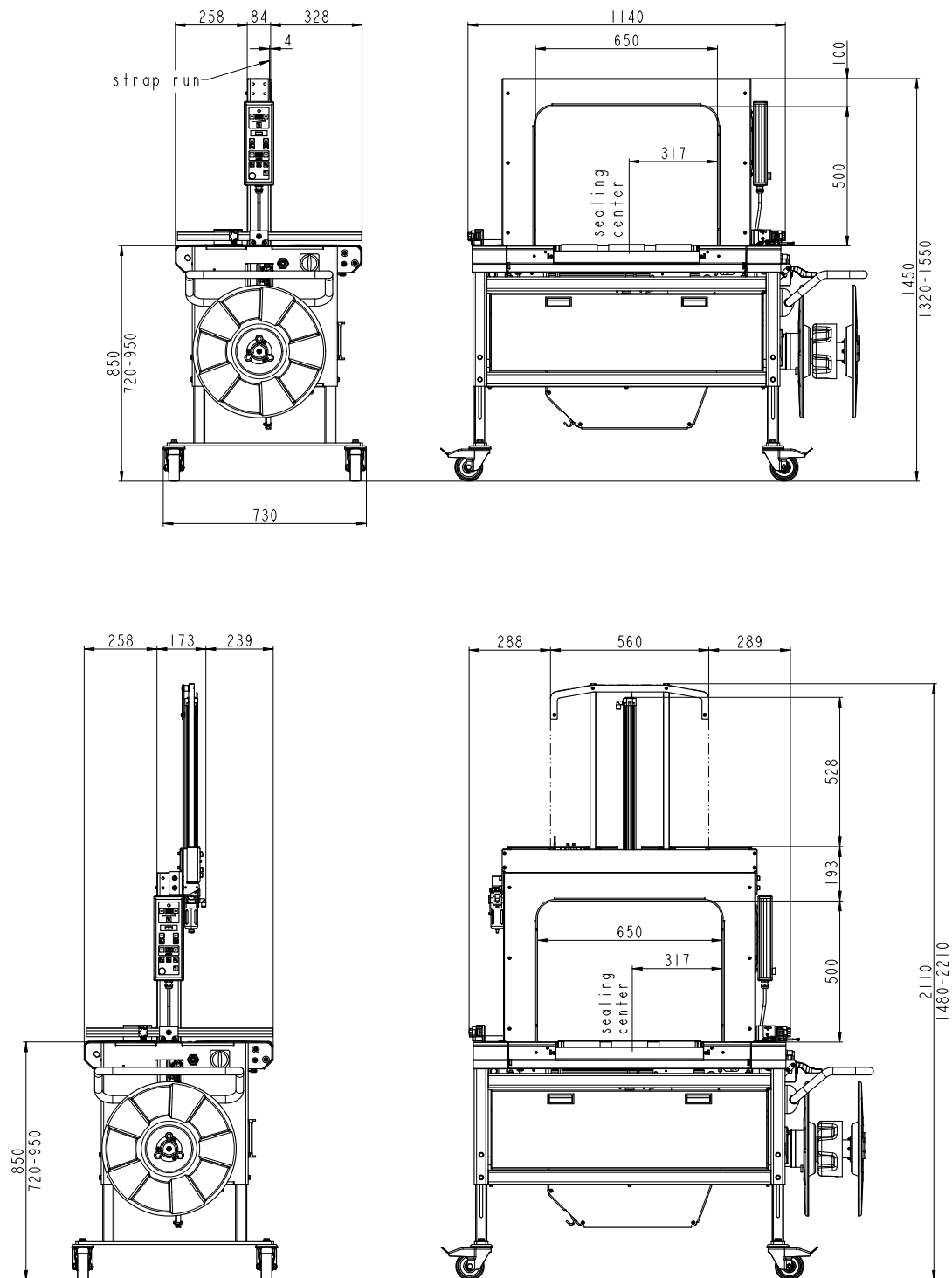
■ **Cycle counter**
Signal via interface for counting the strapping cycles

■ **Strap end**
Signal via interface:
Strap dispenser empty

■ **Strap end pre-warning**
Signal via interface if the diameter of the strap dispenser falls below the pre-set value

LAYOUT

OR-M 550i/555i (650 x 500 mm)



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