

SGP 2330 / 4330



pack



bundle



unitize



warehouse



transport



Data sheet
Fully automatic
strapping machine

Technical datasheet

SGP 2330 / 4330

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	10 - 40°C	(50 - 104°F)	
Relative humidity	10 - 65%		
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	(5,5 - 50 yd/min)	
Machine weight	300 kg	(660 lbs)	
Color	Black RAL 9005, slate grey RAL 7015		
IP- Protection level	without IP protection		
Packages			
Width x height min.	100 x 50 mm	(4 x 2")	
Width / height max.,	./ 50 mm	(./ 2")	
Arch dimension			
Length min.	200 mm	(8")	
Weight max.	35 kg	(77 lbs)	
Plastic Strap (PP)			
Strap width	5 mm	(1/4")	
	9 mm	(3/8")	
	12 mm	(1/2")	
Strap thickness	0,40 - 0,60 mm	(0,015 - 0,024")	
Strap coil, Ø inside/outside	200/430 mm	(8/17")	
Strap tension	5 mm (1/4")	300 N	
	9 - 12 mm	450 N	
	(3/8 / 1/2")		

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

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

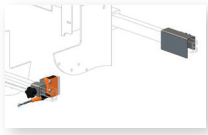
Standard equipment

- 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
- Machine-stop button
- Dispenser position: Side mounted
- Electrical power cable, 5 m
- Basic photocell for detecting and positioning the package
- 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

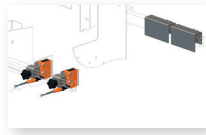
Machines	Strap width	Arch dimension Width x Height	Strap tension
SGP 2330 / 4330	5 mm (1/4")	650 x 500 mm (26x20")	300 N
	5 mm (1/4")	850 x 650 mm (33x26")	300 N
	9 / 12 mm (3/8" / 1/2")	650 x 500 mm (26x20")	450 N
	9 / 12 mm (3/8" / 1/2")	850 x 650 mm (33x26")	450 N
	9 / 12 mm (3/8" / 1/2")	850 x 850 mm (33x33")	450 N
	9 / 12 mm (3/8" / 1/2")	850 x 1250 mm (33x49")	450 N

Options



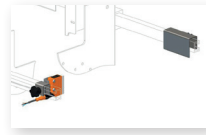
■ Strapping middle of packets

Independent of their position, the packets are strapped 1x automatically in the middle



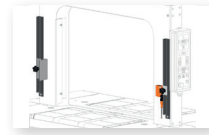
■ Mixed operation

Dependent on their length (x), the packets are strapped 1x automatically in the middle ($< x$), or several times ($> x$).



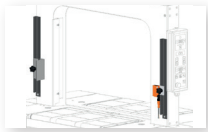
■ First strapping position

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



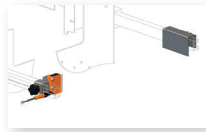
■ 2nd strap tension

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



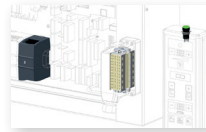
■ Strapping Yes / No

If the packet exceeds or does not meet the pre-set light barrier height, the strapping is automatically suppressed.



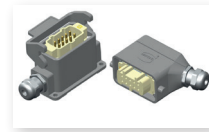
■ Conveyor stop

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



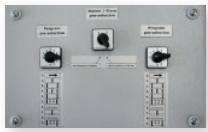
■ External program selection

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



■ Interface plug

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



■ Tandem control box

Permits a controlled program sequence of 2 successively positioned automatic strapping machines
Failure redundancy
For an increased productivity



■ Packet stop

For aligning packets for the first strapping position. Fixed distance to the strap line via spacer. Distance to strap line is defined via spacers



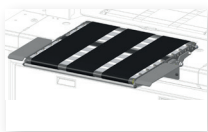
■ Hold-down device H500

Pneumatic hold-down device
For holding or compressing packages and loose bundles



■ Signal lamp 3 colors

Visual information of the different machine states



■ Conveyor extension 245 mm

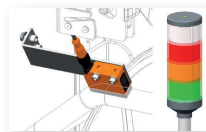
The belt conveyor system can be extended by 125/245 mm each on the infeed and outfeed sides

■ Conveyor unit 2 belt conveyor

For conveying of difficult and uneven products

■ Conveyor unit 4 belt conveyor

For conveying of difficult and uneven products



■ Strap end pre-warning

When the roll diameter falls below the pre-set value, the white signal lamp is activated
A roll change can be prepared in due time to avoid longer machine downtimes

■ Fixable feet

The machine can be securely supported in the floor via the adjustable feet

■ Working height

Working heights outside the standard range, adjustable from 920 - 1200 mm.

■ Flex programm

Depending on their length, the packages are strapped in the middle, in parallel, three times or multiple times. The strap position is automatically placed symmetrically.

■ 2nd Emergency Stop

Additional external Emergency Stop switch. Connection via interface.

■ High strap tension 600 N

For strap tension up to 600 N

■ Special colour

Only RAL colours

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

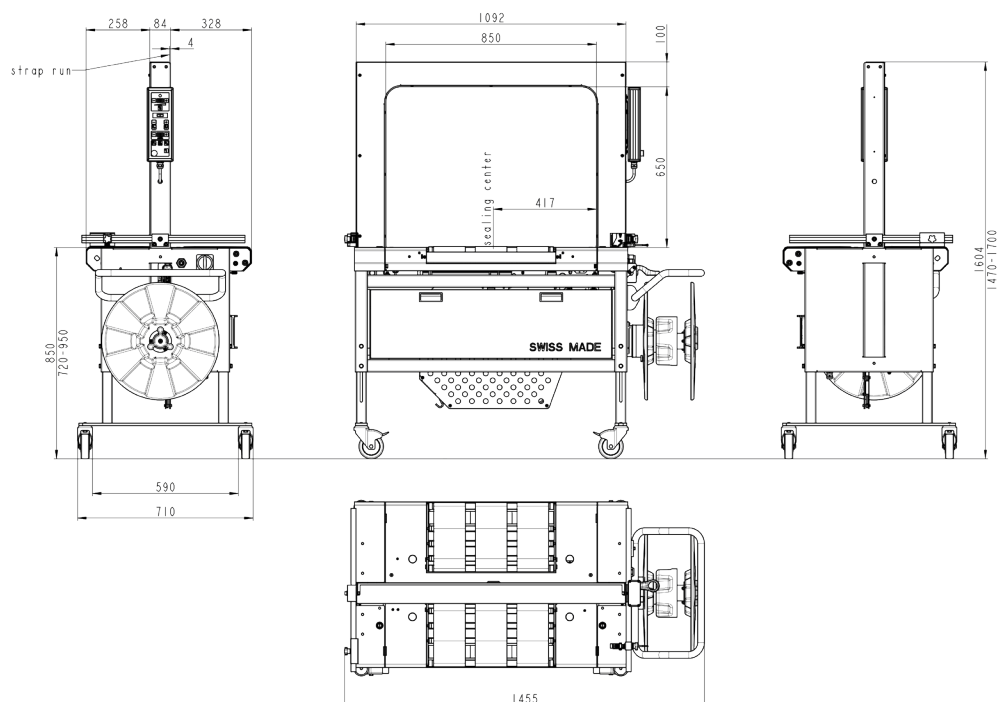
Tecnical data sheet

SGP 2330 / 4330



Layout

SGP 2330 / 4330 (850 x 650 mm / 33 x 26")



SGP 2330 / 4330 (650 x 500 mm / 26 x 20")

