

strapex®

A **SIGNODE** BRAND

PRODUCTS
SERVICES
INTEGRATION
AUTOMATION



pack



bundle



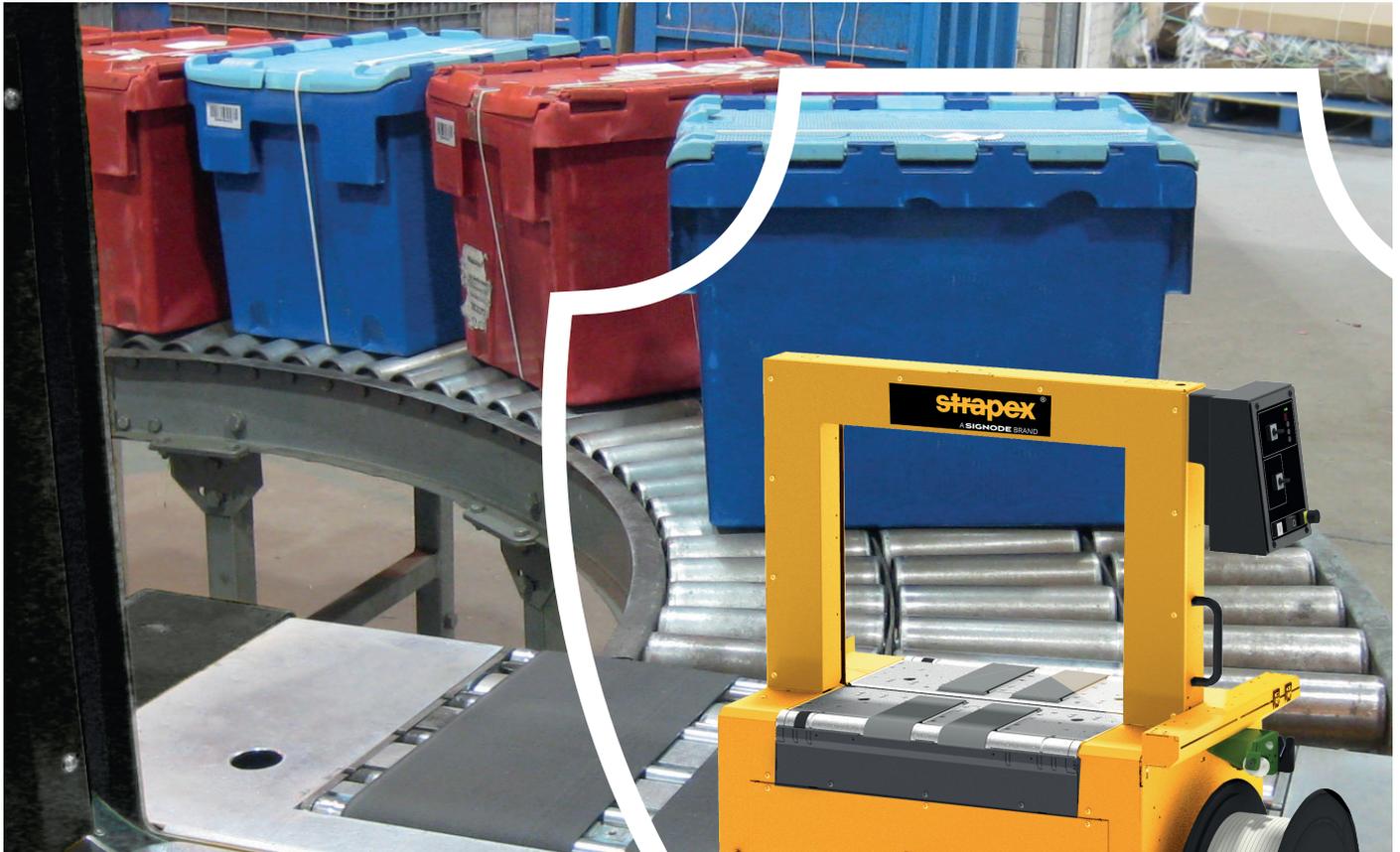
unitize



warehouse



transport



Data sheet **SMG 80** Automatic strapping machine

Intuitive Operation

Plug and play design
for easy set-up

Simplifies Maintenance

Robust and extremely low
maintenance

Production Versatility

Designed for easy
integration into
many industries and
applications

Maximizes Productivity

Straps up to 45 bundles
per minute

Technical datasheet

SMG 80

Technical Data

| | | | |
|--|--|----------------------------|------------------|
| Seal method | Heat weld sealing | | |
| Preheating time | 30 s | | |
| Electrical supply | Single phase 100 – 240 V, 1AC, 47 – 63 Hz Maximum fusing 16A (B-character) | | |
| Power consumption | Modus Stand-by | Modus Operation | Modus Oper. Max. |
| Watt | 50 W | Ca. 300 W | 607 W |
| Room temperature | 5–45°C | (41–113 °F) | |
| Relative humidity | 10–65% | | |
| Cycles per minute up to* (without conveyor) | 65/min. | | |
| Working heights | see layout on page 4 | | |
| Conveyor | driven conveyor belt | | |
| Conveyor speed, stepless | 6–60 m/min | (6,5–65 yd/min) | |
| Machine weight | 300 kg | (660 lbs) | |
| Color | Black RAL 9005, slate grey RAL 7015 | | |
| IP- Protection level | IP 22 | | |
| Packages | | | |
| Width x height min. | 100 x 10 mm | (4 x 0,4") | |
| Width / height max., Arch dimension | ./. 50 mm | (./.2") | |
| Length min. | 140 mm | (8") | |
| Weight max. | 30 kg | (77 lbs) | |
| Plastic Strap (PP) | | | |
| Strap width | 5 mm 9 mm 12 mm | (1/4") (3/8") (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 | 5–12 mm (1/4 / 1/2") | 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.

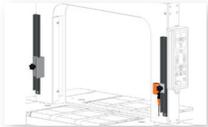
Standard equipment

- Adjustable conveyor height
- Fold-out belt conveyor system
- two swivel castors with brakes
- Two fixed castors for easy moving
- Heat seal
- Automatic strap feeder
- Automatic strap end ejection
- Strap loop ejection for cycles without product
- Cycle counter
- Machine-stop button
- Dispenser position: Side mounted
- Electrical power cable, 5 m
- Basic photocell for detecting and positioning the package
- Second Photo Cell for centered strapping (middle of paket) and strapping distanced from end of package
- Energy saving: Automatic conveyor stop. After 10 seconds machine conveyor stops. Starts again when next bundle is coming
- Operation / indication
 - Control panel, mounted on dispenser side
 - Mechanical dial for program selection
 - Intuitive setup of 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
 - Conveying in and out
- Signal lamp 3 colors
 - Green: Automatic mode
 - Orange: Strap empty
 - Red: Stop/Error/manual

Arch dimension

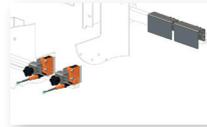
| Machines | Strap width | Arch dimension Width x Height | Strap tension |
|----------|------------------------------------|----------------------------------|---------------|
| SMG 80 | 5 / 9 / 12 mm (1/4" / 3/8" / 1/2") | 650 x 500 mm (26x20") | 450 N |
| | 5 / 9 / 12 mm (1/4" / 3/8" / 1/2") | 850 x 650 mm (33x26") | 450 N |
| | 5 / 9 / 12 mm (1/4" / 3/8" / 1/2") | 850 x 850 mm (33x33") | 450 N |
| | 5 / 9 / 12 mm (1/4" / 3/8" / 1/2") | 850 x 1250 mm (33x49") | 450 N |

Options



■ Strapping Yes / No

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



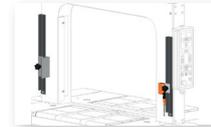
■ Mixed operation

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



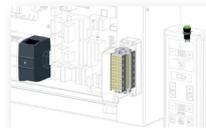
■ Packet stop

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



■ External program selection

External selection of the different strapping programs via BCD-Code generated by the customer



■ Interface plug

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

■ Conveyor extension 245 mm

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

■ Conveyor extension 60 mm

Non driven roll to match footprint when replacing SGP2330/4330

■ 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

■ 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

■ Signal: Machine to automatic

Signal via interface if the machine is operated in automatic strapping mode

■ Signal: Cycle counter

Signal via interface for counting the strapping cycles

■ Signal: Strap end

Signal via interface: Strap dispenser empty

■ Signal: Strap end pre-warning

Signal via interface if the diameter of the strap dispenser falls below the pre-set value

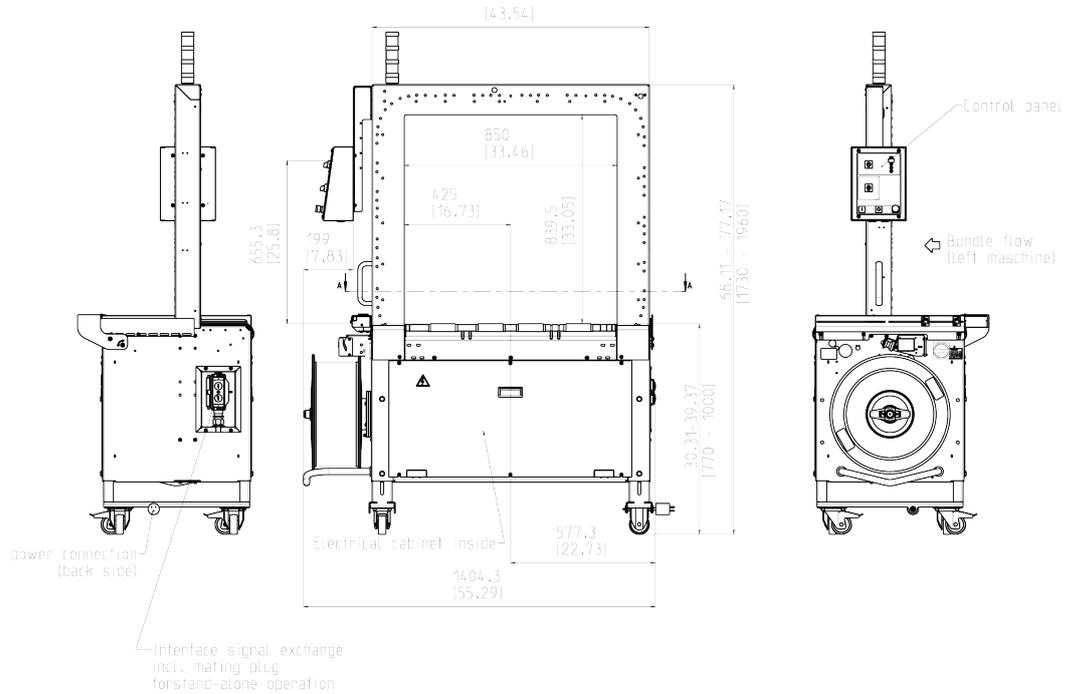
Technical datasheet

SMG 80



Layout

SMG 80 (850 x 850 mm / 33 x 33")



SMG 80 (650 x 500 mm / 26 x 20")

