

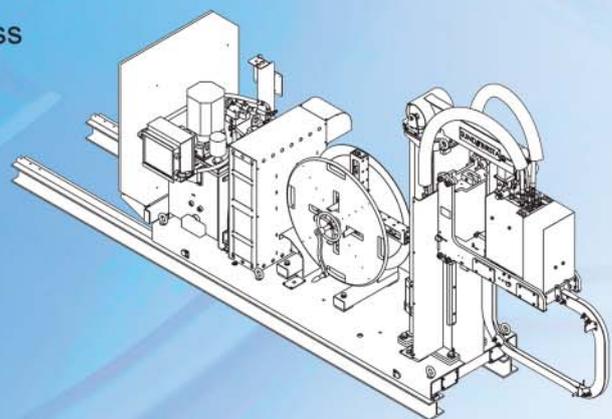
# Strapping machine, type SMA

## 700, 700/850, 1200, 1200/1400



### Major advantages

- Strapping head designed for optimum tightness
- Strong, safe and reliable seals
- High stretching force
- Fully-automatic operation
- Low maintenance requirements
- Easy access for service and maintenance
- High operating availability



SUND / BIRSTA

# SMA strapping machine

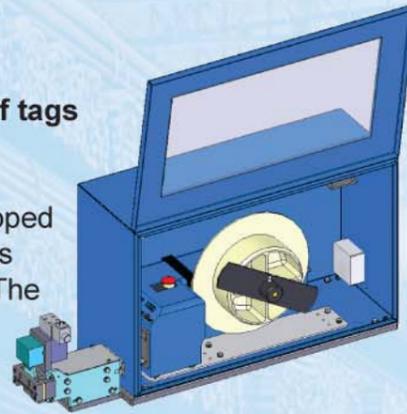
*“Tight and safe strapping  
at a low operating cost”*

## TAG MARKER (Optional)

Over the years the demand for automatic application of tags has increased rapidly.

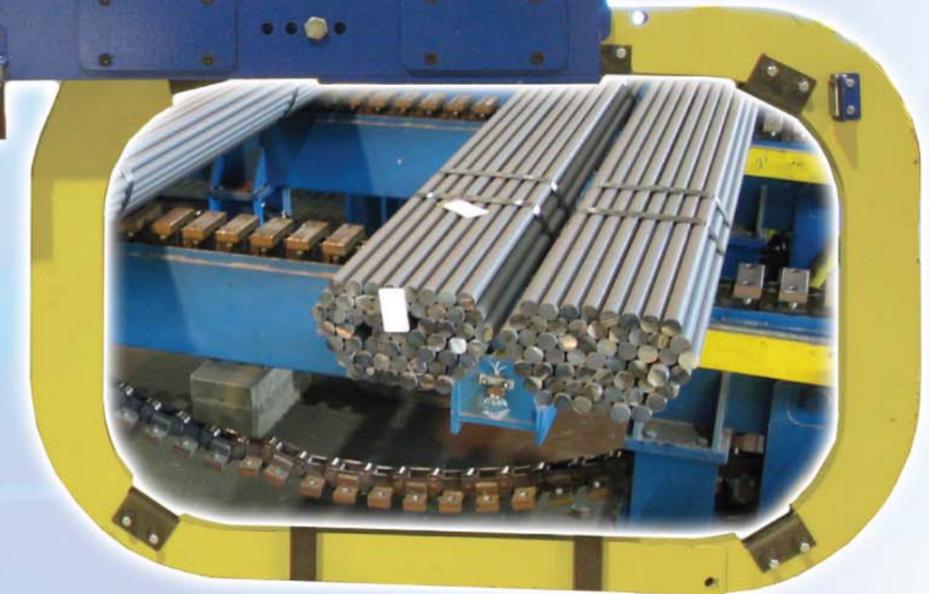
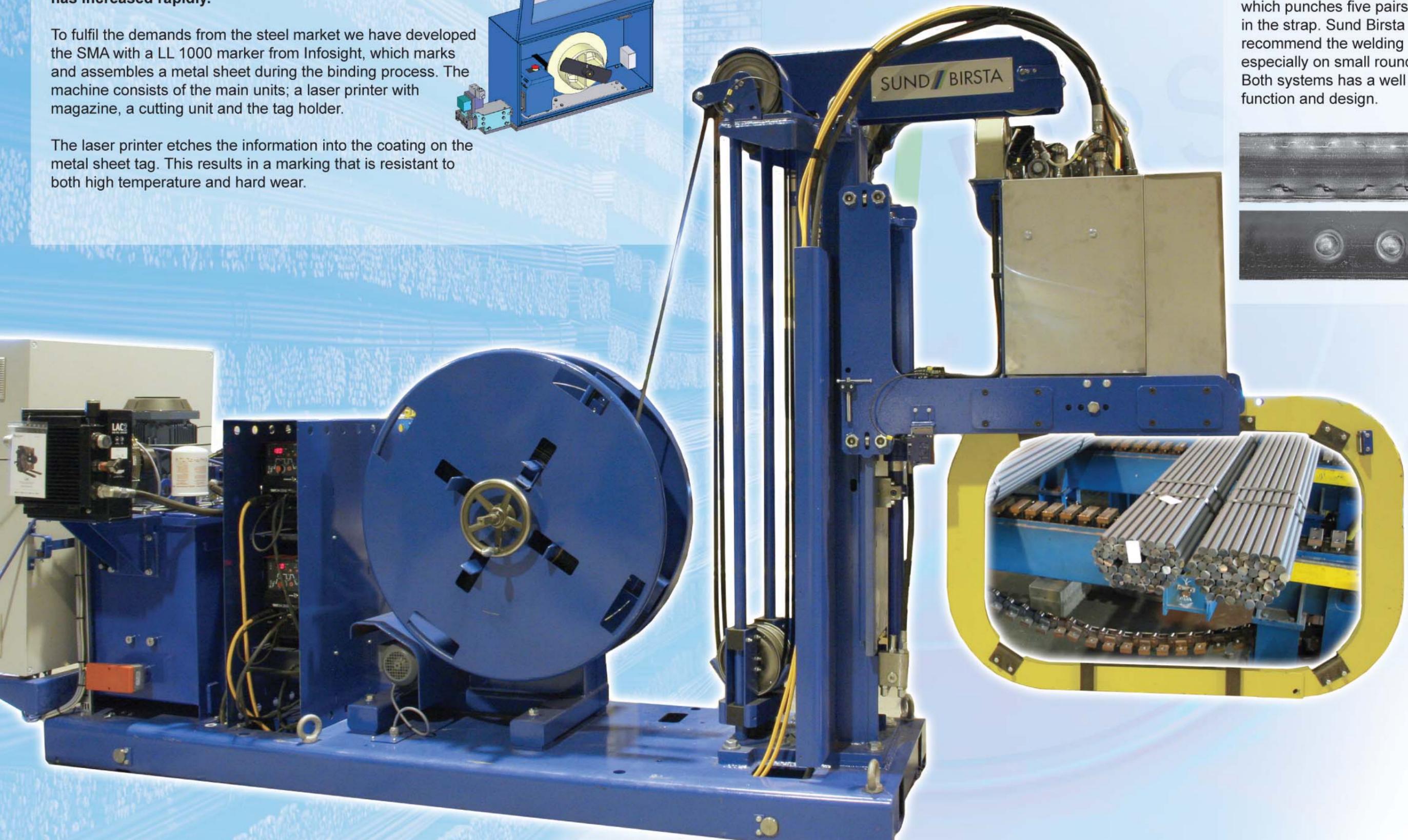
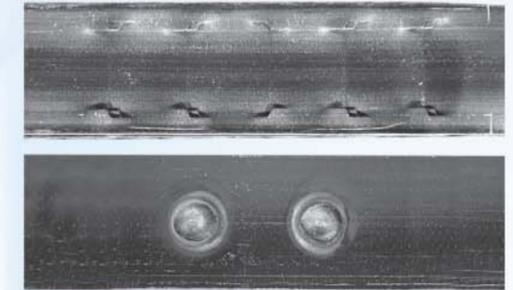
To fulfil the demands from the steel market we have developed the SMA with a LL 1000 marker from Infosight, which marks and assembles a metal sheet during the binding process. The machine consists of the main units; a laser printer with magazine, a cutting unit and the tag holder.

The laser printer etches the information into the coating on the metal sheet tag. This results in a marking that is resistant to both high temperature and hard wear.



## SEALINGS

The SMA can be equipped with a strap head unit called SBH5 which punches five pairs of seals in the strap. Sund Birsta can also recommend the welding unit SBHW, especially on small round bundles. Both systems has a well proven function and design.



# Function description

The main function of the machine is to strap bundles of square and round profiles. The bundles are transported through the machine by a roller conveyor. When a bundle is in position for strapping the machine starts automatically.

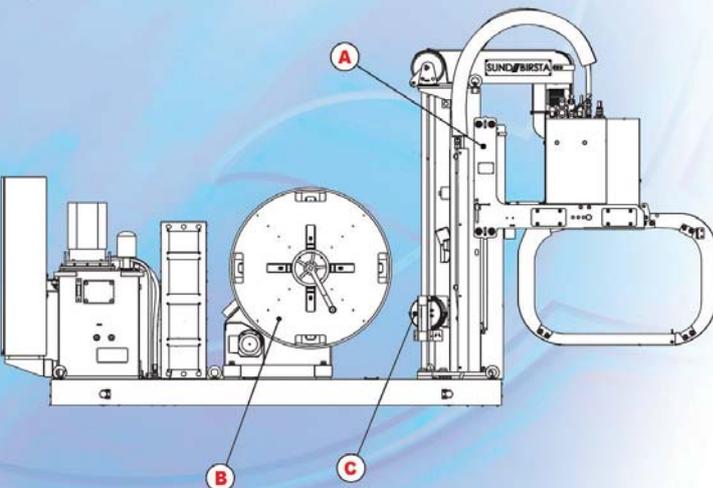
A complete strapping sequence starts with the vertical carriage (A) in it's upper position.

After feeding, the strapping unit moves down towards the bundle and stops when it is aligned with the bundle. Clamping and stretching of the strap begins. The initial stretching force is low until the strap has stopped, as indicated by a pulse encoder.

The stretching force is then increased and at the same time the strapping unit holder cylinder releases the strapping unit, to allowing it to float freely above the top surface of the bundle during the stretching process. This ensures equal strap tension on both sides of the bundle. A welded joint is then applied to the strap. The strap is cut off and shortly afterwards the strapping unit moves up.

The strapping cycles continue, one by one, until all required straps have been applied. The strap dispenser (B) feeds the strap accumulator (C) once the strap cycle is complete.

Once the sealing procedure is complete, the machine immediately starts to prepare for the next strapping cycle and the strip is pre-fed into the strap guide.



# SMA

## TECHNICAL SPECIFICATION

### TYPICAL AREAS OF APPLICATION

Strapping of light sections, reinforcement bars, bar tubes, hollow sections, etc. in the form of square, round or hexagonal packages or bundles.

### PACKAGE OR BUNDLE DIMENSIONS SMA-32/700 SBHW

Bundle dimensions, round:	Min. $\varnothing$ 150 mm,	Max. $\varnothing$ 550 mm.
Bundle dimensions, square:	Min. 150 mm,	Max. 550 mm.
Bundle height, hexagon:	Min. 150 mm,	Max. 550 mm.

### PACKAGE OR BUNDLE DIMENSIONS SMA-32/700/850 SBH5

Bundle dimensions, round:	Min. $\varnothing$ 200 mm,	Max. $\varnothing$ 700 mm.
Bundle dimensions, square:	Min. 200 mm,	Max. 700 mm.
Bundle height, hexagon:	Min. 200 mm,	Max. 700 mm.

### PACKAGE OR BUNDLE DIMENSIONS SMA-32/1200

Bundle dimensions, round:	Min. $\varnothing$ 200 mm,	Max. $\varnothing$ 1050 mm.
Bundle dimensions, square:	Min. 200 mm,	Max. 1050 mm.
Bundle height, hexagon:	Min. 200 mm,	Max. 1050 mm.

### PACKAGE OR BUNDLE DIMENSIONS SMA-32/1200/1400

Bundle dimensions, round:	Min. $\varnothing$ 400 mm,	Max. $\varnothing$ 1250 mm.
Bundle dimensions, square:	Min. 400 mm,	Max. 1250 mm.
Bundle height, hexagon:	Min. 400 mm,	Max. 1250 mm.

### STRAP ARRANGEMENT

Strap magazine, coil weight: 1x1000 kg.  
Accumulator including counterweight pulley wheel system.

### ELECTRICAL EQUIPMENT

Control system:	PLC.
Operator control:	Portable panel.
Internal voltage:	24V DC.
Standard voltage:	400V, 3-Phase.
Power:	10 kW.

### FEATURES

- Strap guide open/close, in automatic.
- Carriage for lateral movement, automatic or manual.
- Strapping machine drive to/from the package or bundle, in automatic.
- Size of strap magazine.

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