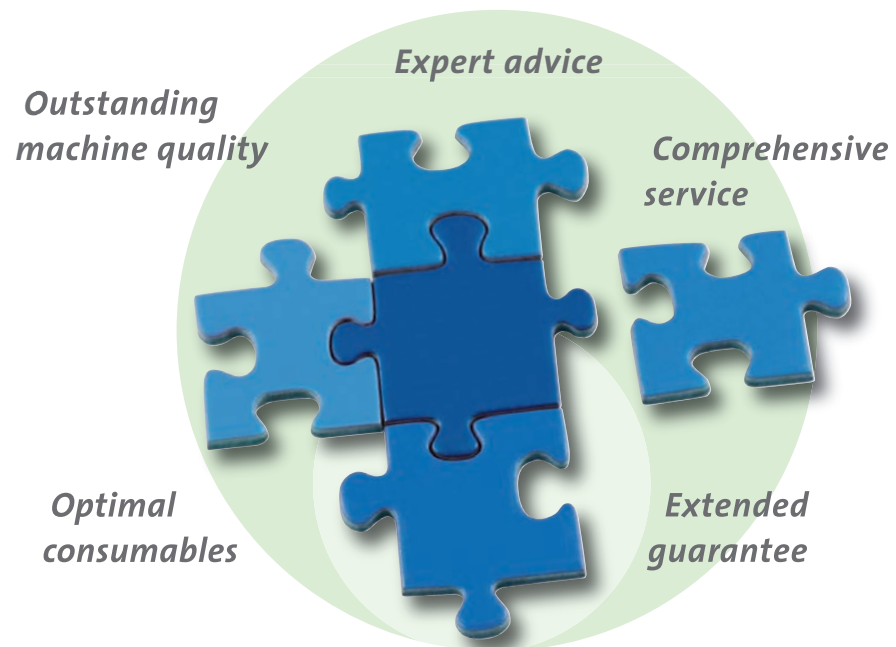


MOSCA – THE SYSTEM PROVIDER



MOSCA —

EXCELLENCE IN STRAPPING SOLUTIONS

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MOSCA® —

EXCELLENCE IN STRAPPING SOLUTIONS

Quality makes the difference

PP & PET
Straps

RESPONSIBLE PRODUCTION

Sustainable plastic strap production at the Muckental plant



Muckental: Representing state-of-the-art production technology in Europe

- Opened in 2008, the Muckental strap manufacturing plant represents state-of-the-art production technology in Europe
- 4,250 sqm production area includes several extrusion lines for manufacturing high-quality PP and PET straps
- Fully automated production processes end with ready-packed pallets
- 24/7 plant operation (excluding brief shut-down periods)
- Annual production capacity of more than 6,000 metric tons plastic strap
- All electrical energy required for PET strap production is sourced from an on-site solar energy system
- Fresh air is used in the winter months to cool production machinery
- PET straps are manufactured from 100 percent recycled material (bottle flakes). Recycling results in a carbon footprint equivalent to a 500 hectare forest

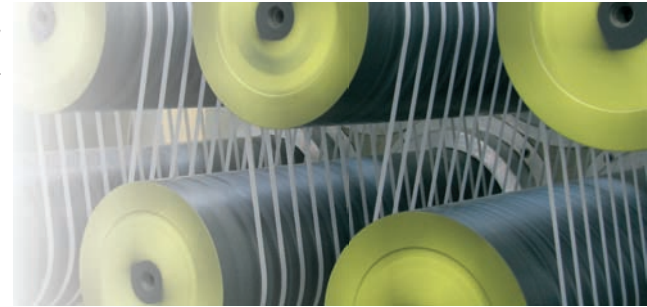
MOSCA GMBH sets standards!

Along with strapping machines, Mosca produces the consumables – plastic straps – in one of Europe's most modern manufacturing plants. Environmental sustainability was a key issue from the very early stages of planning, construction and operation of the plant, located in Muckental in the Odenwald region, not far from Mosca company headquarters.

Several automated extrusion lines in operation 24/7 produce PP and PET straps for strapping machines. Ranging in width from 5 to 15 mm, the straps can be used in all strapping machines, irrespective of the machine type or manufacturer. The Mosca plant meets growing customer demands for sustainability on many levels.

When the plant was built, Mosca utilized the potential of the large flat roof to install solar panels covering an area of 2,500 sqm. The system feeds power to the grid through three inverters. This

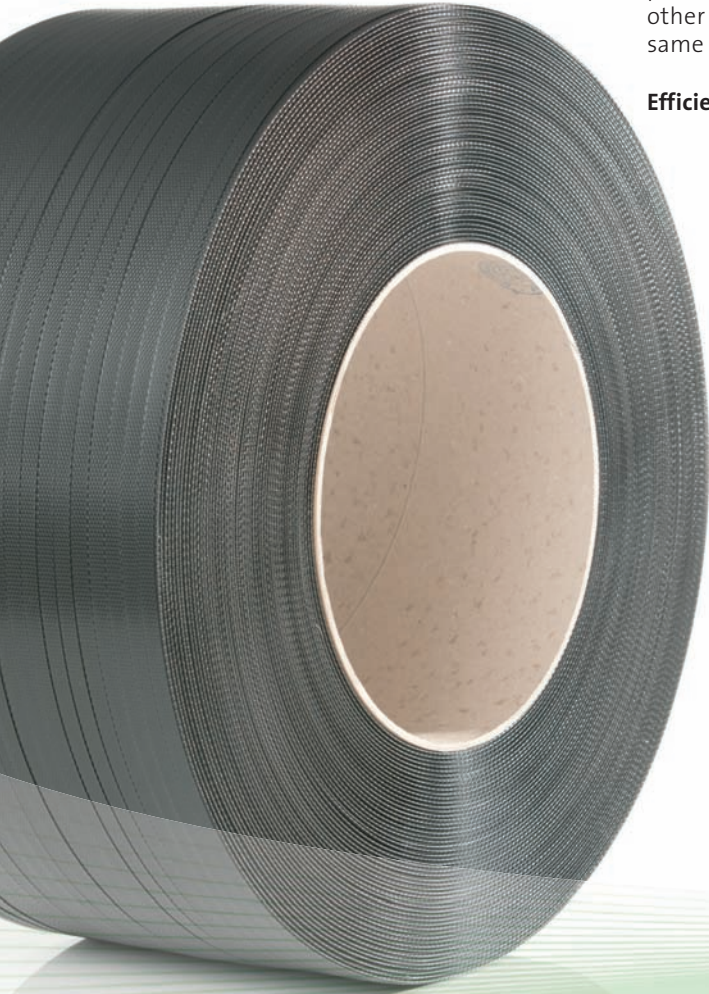
makes it possible to manufacture climate-neutral straps, since the PET strap production facility uses no more energy than is generated by the in-house photovoltaic system. The current status and effectiveness of the system and its components can be monitored at any time via Internet.



FULL AUTOMATED PRODUCTION PROCESS

PP STRAPS

These straps are available in 5 – 15 mm widths.



They are eco-friendly, safe for use with food and pollutant-free. The standard color is black, but other colors and sizes can be produced in the same grade on request.

Efficient packaging concept!

- Quick strap coil change
 - Optimum protection
-
- Delivery quantities from one box to a complete truck or container load
-
- Individual customer care by our own field service in Germany.
-
- Also obtainable from packaging materials dealers

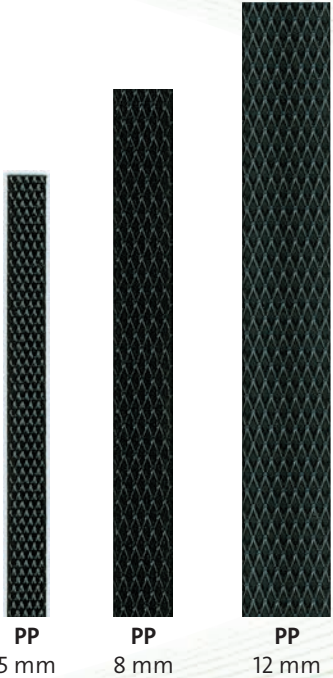
POLYPROPYLENE STRAP – AUTOMATIC MACHINE GRADE

Article No.	Dimensions (mm)	Sleeve (mm)	Coil length	Tensile strength
PP05155035	5 x 0,35	200 x 190	8.000 m	45 kg
PP05155040	5 x 0,40	200 x 190	7.000 m	53 kg
PP05100047	5 x 0,47	150 x 160	6.100 m	55 kg
PP05155047	5 x 0,47	200 x 190	7.000 m	55 kg
PP06902055	6 x 0,55	200 x 190	4.700 m	60 kg
PP08155045	8 x 0,45	200 x 190	4.500 m	85 kg
PP09155055	9 x 0,55	200 x 190	3.500 m	90 kg
PP10900055	10 x 0,55	200 x 190	3.000 m	100 kg
PP12155055	12 x 0,55	200 x 190	2.500 m	110 kg
PP12250055	12 x 0,55	406 x 150	3.000 m	110 kg
PP12155063	12 x 0,63	200 x 190	2.000 m	150 kg
PP12200063	12 x 0,63	280 x 185	2.000 m	150 kg
PP12155080	12 x 0,80	200 x 190	1.700 m	220 kg
PP12200080	12 x 0,80	280 x 185	1.700 m	220 kg
PP12250080	12 x 0,80	406 x 150	2.000 m	220 kg
PP15900090	15 x 0,90	406 x 150	1.500 m	410 kg

Standard color black; other colors and sizes available on request

Packing units

Core Ø150/200/280 mm	2 coils per cardboard box	24 cardboard boxes per pallet
Core Ø 406 mm	1 coil per cardboard box	40 cardboard boxes per pallet



PET STRAPS

These straps are available in 9.5 – 15.5 mm widths in high and medium-strength grades.



PET strap is made from 100 per cent recycled material. Slight color variations are inevitable and do therefore not pose a quality criterion. The straps are temperature-stable and guarantee high strength and elasticity for optimally securing loads.

All straps are suitable for use with machines and manual strapping equipment.

The PET straps are used in an extremely diverse range of industries. They are used for strapping stacks of paper and corrugated board and also for entire pallets with more solid loads, including bricks, wood or cans. It is irrelevant whether the strap is sealed using the heat-welding of ultrasonic method. The PET strap is suitable for both processes.

- Delivery quantities from one box to a complete truck or container load
- Individual customer care by our own field service in Germany.
- Also obtainable from specialist packaging materials dealers

POLYESTER STRAP – AUTOMATIC MACHINE GRADE

Article No.	Dimensions (mm)	Coil length	Tensile strength
PET09512054	9,5 x 0,54	3.500 m	170 kg
PET09510064	9,5 x 0,64	3.200 m	200 kg
PET12010054	12,0 x 0,54	2.500 m	200 kg
PET12010058	12,0 x 0,58	2.500 m	230 kg
PET12010062	12,0 x 0,62	2.500 m	240 kg
PET12010070	12,0 x 0,70	2.000 m	340 kg
PET12510054	12,3 x 0,54	2.500 m	240 kg
PET12510058	12,3 x 0,58	2.500 m	300 kg
PET12510066	12,5 x 0,66	2.000 m	350 kg
PET15010055	15,0 x 0,55	2.000 m	360 kg
PET15010066	15,0 x 0,66	1.750 m	470 kg
PET15010080	15,0 x 0,80	1.400 m	500 kg
PET15510089	15,5 x 0,89	1.300 m	580 kg

Standard color green; other colors and sizes available on request

Packing units

Core Ø:	406 mm inside	Cardboard box	= 1 coil
	590 mm outside	Euro pallet	= 20 coils
Width:	150 mm	One-way pallet	= 40 coils

