

MOSCA®

EXCELLENCE IN STRAPPING SOLUTIONS

KCK 131-26-HS

Pallet packing press
high-speed



Picture with
options

...intelligent, compact, economical

Five good reasons to opt for the KCK 131-26 high-speed

The machine straps up to 200 pallets per hour – including edge protection. Comparable machines are only capable of processing a maximum of 150 pallets. Thanks to an outstanding combination of tried and tested components, the KCK 131-26 pallet packing press operates at high speed while being extremely economical.

Do you need to strap a large number of pallets as quickly as possible? Think compact and intelligent and see the benefits!

Five special elements add up to a record-setting performance of the novel machine.

SoniXs sealing unit

Technology specially developed by Mosca welds the strap ends using high-frequency ultrasonic vibration. This is faster and environmentally friendlier than using conventional friction welding methods. Up to 85% tear resistance at the joint makes it possible to use thinner straps – resulting in significant savings on strap material.



Electric edge protection

The electric edge protection system quickly and precisely positions sections of corrugated board to keep strapping from cutting into fragile loads, including corrugated board stacks or paper products. The use of electrical instead of pneumatic power saves valuable energy. The brushless DC drives are maintenance friendly and the edge protection hoppers can be quickly and conveniently refilled.



High-speed drive

The ram drive for the press plate can be adjusted to operate at a press force from 2,000 N to 33,000 N adjustable in 1,000 N increments. Powered by an asynchronous servo, it has inbuilt redundancy in the braking system, which comprises two independent braking systems – if one fails, the other takes over. This ensures optimal safety and prevents the heavy press plate from falling uncontrolled. Drive speed is continuously adjustable from 30 mm/s to 350 mm/s to meet specific requirements.

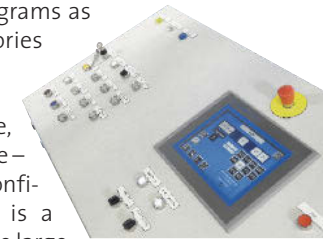
Strap sealing unit with split dispenser

The strap sealing unit with split dispenser means that the operator no longer needs to enter the security zone of the machine to change the strap. Strap spools are changed outside the security zone. The unit is quick and easy to operate and saves time and money. Continuous strap operation means there are no strap-end residues – so no material is wasted.



Configuration

A new feature for users of the KCK 131-26 is the option of configuring individual strapping programs. Users can easily set up new programs as needed, with up to 200 program memories available for independent configuration. Operator options include parallel or cross strapping, lance or closed strap guidance, edge protection Yes/No and pressing force – these and other variables can be easily configured and selected, e.g. when there is a change in the product being strapped. The large display on the control panel enables the operator to easily monitor all processes.



High-speed-package

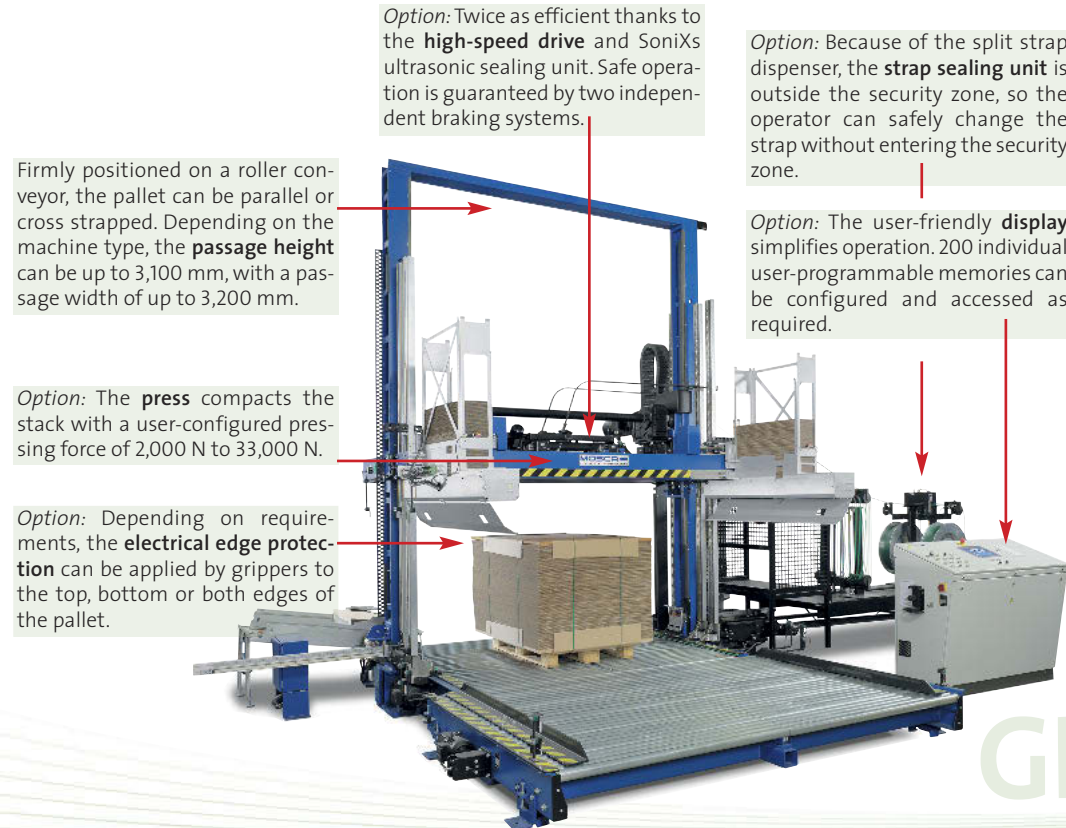
The record speed of up to 200 fully strapped pallets per hour, including edge protection, is achieved as a result of a special combination of a high-speed drive, electrical edge protection and the SoniXs sealing unit. Each individual component on its own saves milliseconds – and these all add up to significant time savings for unprecedented performance.

HIGH SPEED

ECO FRIENDLINESS

KCK 131-26 high-speed: A combination with added value

The intelligent design of the pallet packing press based on individually proven, efficient elements creates a machine that combines speed and economy. This results in pallets strapped to a high-quality standard in record time with minimal consumption of resources.



Performance and savings in figures

A direct comparison shows that both the high-speed drive and the SoniXs sealing unit are individually more economical or perform better than alternative components, depending on the situation. The combination of both components in one machine ensures unparalleled performance.

Comparison of the 3t standard drive with the 3.3t high-speed drive

	3t standard drive	3.3t high-speed drive
Drive	Three-phase motor	Asynchronous servomotor
Control	None (two fixed speeds)	Frequency converter (indefinite speed range adjustment)
Press force (minimum)	approx 5,550 N	2,000 N
Press force (maximum)	30,000 N	33,000 N
Speed (minimum)	37 mm/s	30 mm/s (as required)
Speed (maximum)	150 mm/s	350 mm/s
Braking system	Dynamic operating brake	2 independent braking systems

Comparison of SoniXs sealing unit with friction welding unit

SoniXs compared with KSR-2

Maintenance intervals:	40 % longer
Number of strappings:	40 % higher
Cost of wearing parts:	76 % lower
Maintenance costs:	77 % lower
Maintenance time:	77 % lower
Noise factor:	150 % lower

GREEN EFFICIENCY TECHNOLOGY

Exceptionally fast and yet sustainable Green Efficiency Technology Inside

The KCK 131-26 operates extremely fast and reliably. The combination of very efficient, high-tech components ranks it amongst Mosca's top technology. This economical operation earns the pallet packing press Mosca's own technology label: **GET inside** – short for "Green Efficiency Technology Inside". This label is used to identify products and machines that are particularly efficient with excellent environmental values.

For the KCK 131-26 – high-speed version, GET inside means:

- The SoniXs sealing unit saves energy, has a long service life, lowers the cost of maintenance and wearing parts and generates no vapors or emissions
- The SoniXs allows the use of climate-neutral PET straps, manufactured in-house by Mosca from 100% recycled bottle flakes
- Electrical edge protection requires less energy than pneumatic edge protection
- The method of operation of the strap sealing unit with a split strap dispenser means there are no material residues



Responsible production

Mosca's commitment to sustainability is called "Responsible Production." This means that the company accepts responsibility for its own products and for the future in relation to the environment, the region, customers and employees. Responsible production applies to production conditions for Mosca and its customers. By employing the appropriate technologies and machines, Mosca and customer processes are energy-efficient, safe and operate according to high quality standards.

Service – all part of the Mosca package

Mosca's commitment to sustainability is evident in product quality as well as in long-term customer care. Mosca's involvement does not end when the machine is set-up. A global network of installation engineers guarantees worldwide service available to Mosca customers at any time. Mosca also cultivates close contact with customers to jointly develop ideas and products. In this way, Mosca is able to maintain its standards and provide the best solutions. Should spare parts ever be required, the professionals in Waldbrunn will quickly, uncomplicatedly and reliably supply them.

Would you like to find out more about operating Mosca machines?

Experienced instructors provide systematic introductions to the various types of machinery at your site or in the Mosca training center, based on your training requirements. Proper machine operation can increase operational productivity.

Mosca GmbH specializes in modern strapping systems, from universal units with a wide range of applications, to fully automated high-performance machines that can be integrated into any upstream

automation line. Based in Waldbrunn, between Heidelberg and Heilbronn, the Mosca family enterprise was established in 1966 and has evolved to become one of the world market leaders in the strapping sector. The company has a workforce of 900 employees at 14 plant sites worldwide.

For further details: www.mosca.com



SUSTAINABILITY

KCK 131-26 fully automated pallet packing press – high-speed

Machine description

- Top-mounted SoniXs sealing unit
- 3 strap track guides with 3 strap guide lances
- 2 sealing units (1 unit laterally adjustable)
- Siemens PLC control system
- Operation via Siemens 9" touch panel
- Minimum conveyor height 300 mm
- Can be integrated in any processing line
- Potential-free contacts to upstream and downstream equipment
- Structural coating RAL 5010, gentian blue
- Driven roller conveyor with lifting turn cross

Options

- Automatic, electric edge protector feed, top and bottom
- Traffic light warning system
- Air conditioning equipment
- Data interface
- TP 12" operating unit
- Split strap dispenser in conjunction with strap sealing unit
- Advanced scanning of strap coil
- Configurable strapping programs
- Further options on request

TECHNICAL DATA

Performance:

Up to 200 pallets/hour (only possible with high-speed package) with double edge protection, vertically strapped (depending on product size)

Operating voltage: 400 V, 50 Hz,
3-phase / N / PE

Control voltage: 24 V DC

Total connected power: 23.5 KVA

Passage width: 2,600 mm

Press force: up to 33,000 N continuous

Straps:

Standard machine grade PET straps

Strap dimensions:

Width: 9.5 - 12.5 mm
Thickness: 0.54 - 0.66 mm

Strap tension: 50-2,500 N
infinitely adjustable

Strap feed: 4.7 m/s

Strapping/sealing unit:

Mosca SoniXs ultrasonic sealing unit

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MOSCA®

EXCELLENCE IN STRAPPING SOLUTIONS

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The models of KCK 131-26 are adjustable to one strap width of all quality PET straps between 9.5 and 12.5 mm. Obtainable directly from Mosca, produced in one of Europe's most modern manufacturing plants. Combinable with maintenance contracts by Mosca – a one-stop solution.

