



Celebrating **40** Years of Business



Traceability



Printing



4 Sales & technical support offices in South Africa's major city centres.

Full technical support in Eastern & Southern Africa

## Industrial & Automotive Applications

Project Specialists for  
Packaging Machinery,  
Quality Control,  
Marking &  
End-of-line Inspection

Macsa is an international leader in the coding and marking industry providing innovative solutions for marking on metals and a range of plastic substrates with laser technology.

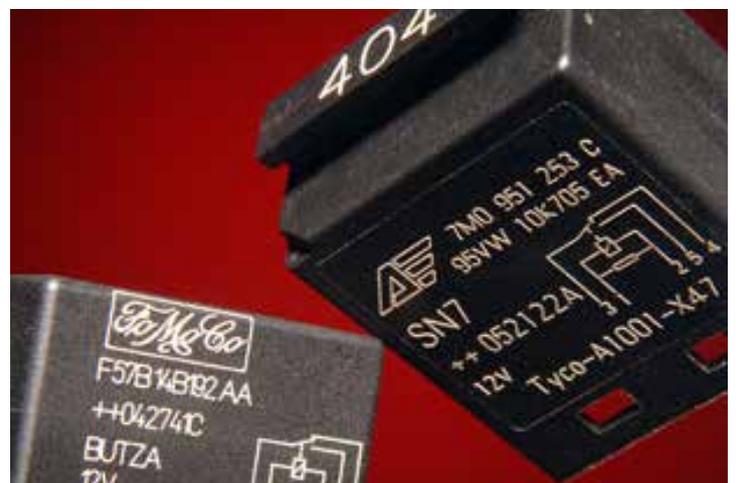
Laser technology is an attractive alternative to other technologies (dot pinning, scribing, etching and micro-percussion) because it is digital, clean, reliable, and has **low running and maintenance costs**.

The Macsa CO2 laser, Fibre and Yag Lasers provide the ideal solution for manufacturers in the automotive and industrial sectors who want to mark their products to identify them, to add instructions, and to enable tracking and traceability. Increasingly a 2D code is required to meet the AIMDPM-1-2006 regulations (automotive).

Lasers are used to apply small, large and complex text, lot codes, batch numbers, dates, data and graphics to products and thereby enhance or complete the product by adding branding and other identifying information.

#### Features:

- Customers can choose from a range of power, speed and other options to get the right product at the right price for their specific needs. Lasers are easy to install, integrate, and use. They are equipped with an on-board computer making an external PC unnecessary. IP65 variants are available for damp and dusty environments.



**The SIC Dot peen marking technology is a world leader when it comes to traceability of components in the automotive and industrial sectors.**

This rapid, high performance marking solution works by electromechanically striking a carbide or diamond stylus assembly against the surface of a part to be marked.

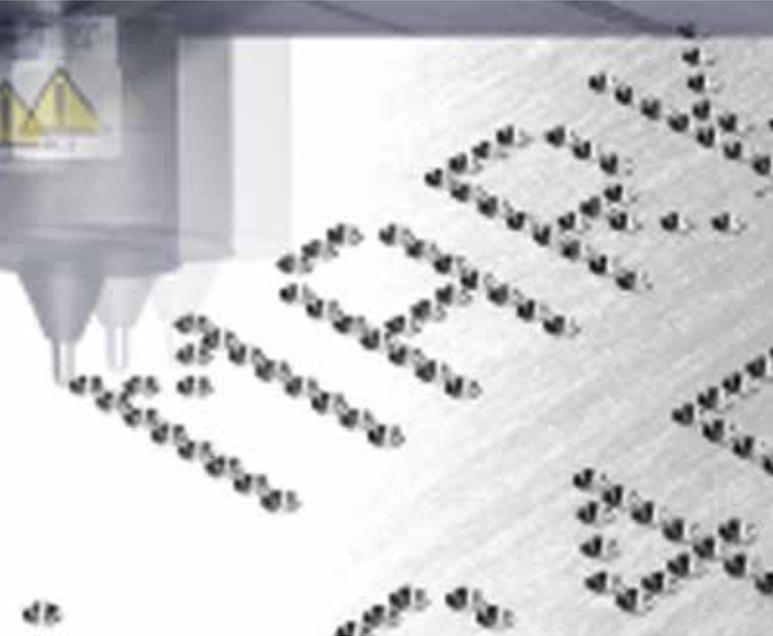
The result is a succession of dots to create digits, text, logos, and 2D data matrix codes. Each dot is the result of a pulsed current that runs through a solenoid, punches a magnet toward the surface, and subsequently returns the stylus to its starting position, awaiting the next pulse. Because each pulse occurs in only a fraction of a second, an entire 2D data matrix code, for example, can be completed in seconds (depending on the size).

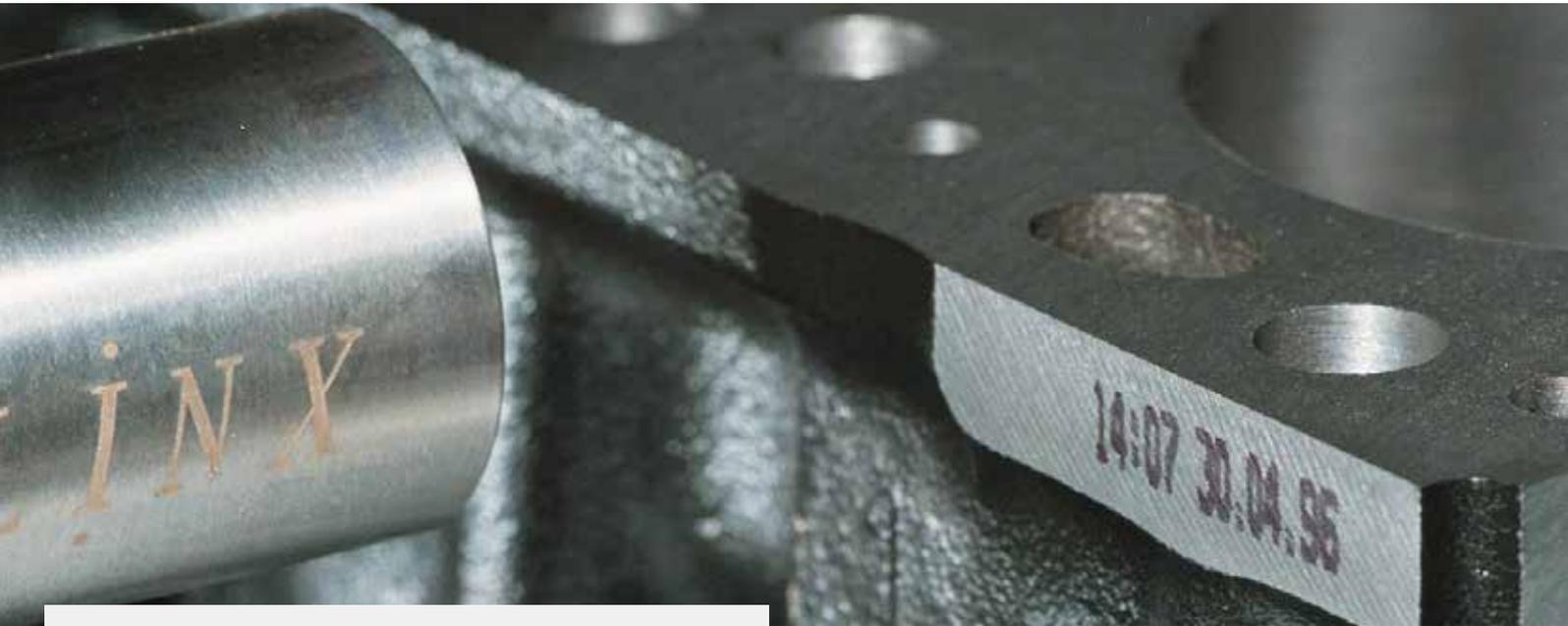
Frequency can be adjusted by controlling the speed of the X and Y axes movements. What makes SIC Marking's dot peen technology so unique is the constant measurement of the electrical current between each pulse. This allows for constant, precise control of the impact consistency.

SIC Marking's handheld dot peen markers are a portable solution suitable for working environments where manoeuvrability and versatility are essential.

Features:

- Cost effective
- Requires no consumables
- High speed accuracy
- Will mark any material (including hardened steel)
- Compressed air is not required





J-Pak has successfully represented Linx Printing Technologies for the past 21 years. Linx Continuous Inkjet printers are proven world-wide to increase productivity while significantly reducing total cost of ownership.

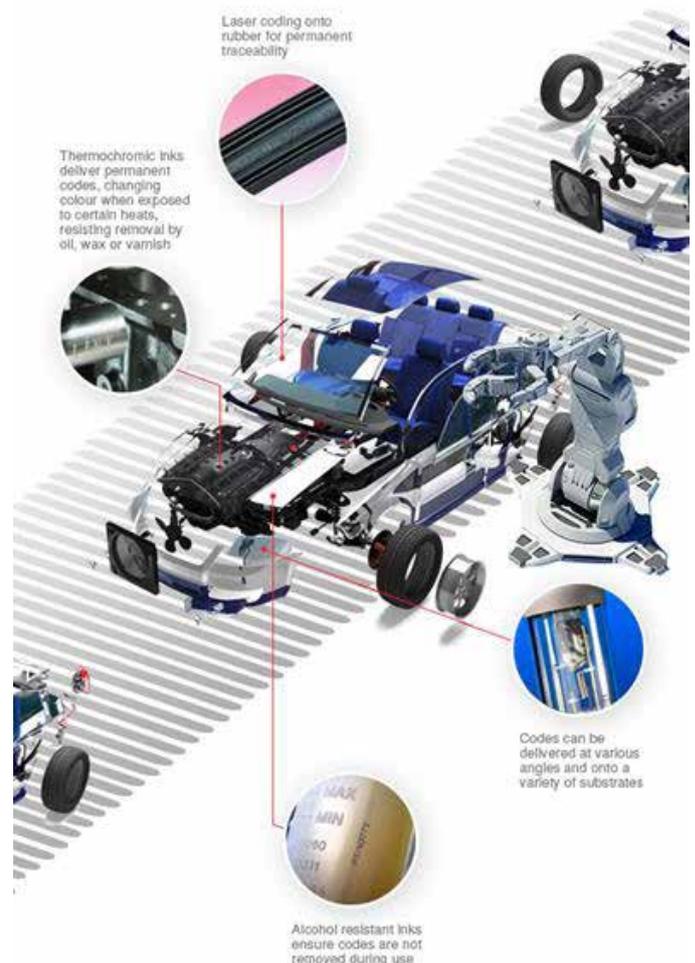
With a modern vehicle containing thousands of individual components, each of which may need a specific part number, trust in Linx to provide the right automotive coding solution for your needs.

No two coding applications are the same, but durable, clear and accurate codes are a given, whether for monitoring components through the assembly process, for stock control, anti-counterfeiting, or to meet customer expectations.

Direct part marking, especially with the use of 2D codes, can combine with the use of vision systems to make the traceability process as smooth as possible. The cost to a vehicle manufacturer of dealing with the consequences of a defective part can be huge, taking into account not just recall costs, but possible fines, loss of share value and damage to reputation.

#### Features:

- Good printing tolerance, even when surfaces are not flat, product is not still (eg. wobbling bottles), and is 10mm or more away from the printhead.





With an extensive range of products and an in-house engineering department, Matthews is able to design, integrate and implement marking systems that others simply cannot touch.

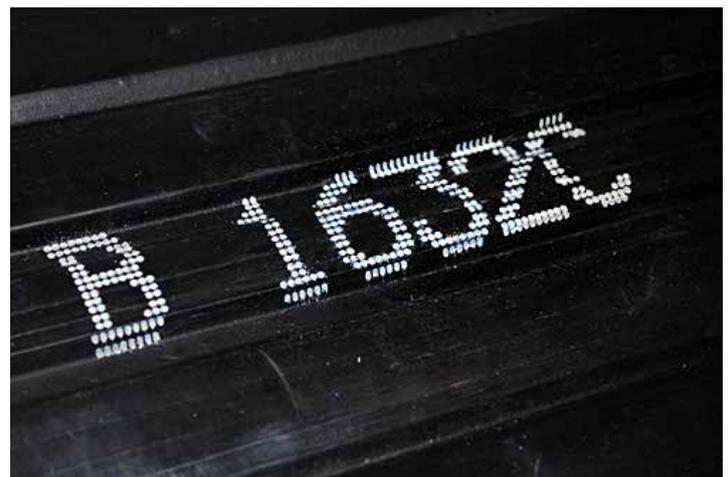
From inventory and quality control applications to regulatory compliance, branding and product ID solution, Matthews has the industry experience and technical know-how to get the job done.

With a variety of controllers, printheads, and inks available to choose from, **Drop-On-Demand printing** is suitable for many different packaging and industrial applications. Case coding, bags, lumber, and metals are just a few of the common applications where Matthews have provided successful solutions. The flexible, modular design allows you to select the right combination for your needs.

Matthews Marking Systems also offers a unique large character inkjet printing system developed specifically for printing onto uncured rubber, where the ink must withstand the curing process; including tyre and tread marking. The robust design of the ACIS (Agitating & Circulating Ink System) significantly reduces the time required to clean and maintain equipment. The printer utilizes a fast dry, HAPS free, curable, white pigmented ink, which will not transfer in the mold, leaving no shadow of the previous mark and no adverse effect on the finished product.

Features:

- Standard Series printheads produce a medium resolution mark, with character heights from ¼" to 2-1/2", offered in either 7 or 16 valve printheads.





## MPERIA™ Controllers

The Mperia controller platform manages multiple print and machine technologies, including: high resolution piezo ink jet, high resolution thermal ink jet, and drop-on-demand valve ink jet – all from a single interface.

The MPeria system allows you to manage messages and settings for multiple printers across one or several production lines. Automation integration functions for scanners, material handling control, and custom GUI's are also available. Seamlessly integrate with your ERP systems and databases to reduce coding errors and improve productivity.

- The MPERIA™ Lite is the most compact controller in the MPERIA™ product line. This 7" controller manages one VIAjet™ printing technology. Upgrades are available that allow for expanding functions including the number of controlled devices. The MPERIA™ Lite also comes in an enclosed version.
- The MPERIA™ Standard has the capability to support all VIAjet™ printing technologies for simultaneous print control and is ideal for primary, secondary, and tertiary marking and coding.
- The MPERIA™ Standard H.E. has the same capability as the MPERIA™ Standard, and offers a 15" touchscreen in an IP65 stainless steel enclosure making it suitable for harsh environments.

## Fume Extractors

BOFA is the 'World Leader' in fume extraction and filtration and has been designing and manufacturing solutions for over 25 years.

BOFA's specialized knowledge of fume extraction requirements associated with laser coding, marking, cutting and engraving applications has enabled them to develop solutions for a variety of manufacturing sectors including the food, beverage, household, and chemical industries.





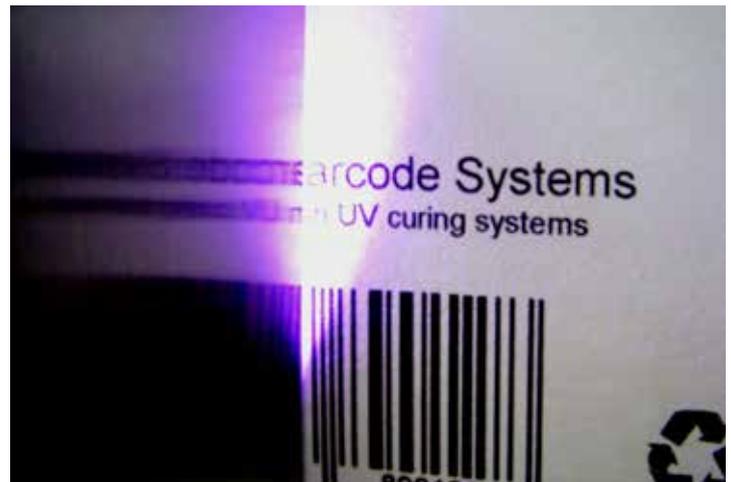
**United Barcode Systems** is a leader in providing automatic high resolution inkjet equipment solutions.

The APLINK UVX Series is a high resolution inkjet printing system developed to solve printing needs on cases, bundles, packaging film, and any non-porous surfaces. This printer incorporates an exclusively designed UV LED Curing (polymerization) System for printed messages instant drying.

UV printer is powered by 4th generation piezoelectric technology print head APLINK UVX Series Printers are developed and manufactured to print any text, images, logos, symbols, and any type of 100% readable barcodes.

Features:

- Ultraviolet curable ink
- Exclusive UV LED curing system
- Instant drying of printed message
- 4th generation piezo electric print head
- Modular design with variable height and depth
- 8" full color touch screen with graphic interface
- Printing speed 100 m/min
- Resolution of 185 x 720 dpi
- Printing height 72 mm.
- Printing on any porous or non-porous surface
- Ink colours: black, red, blue, and yellow
- Other colours on request





Taymer has taken the cable length measurement meter technology developed for cable hot foil printers and wire marking machines, and developed a dedicated wire measuring counter and cable length measurement machinery and wire length measuring devices including turnkey cut to length systems.

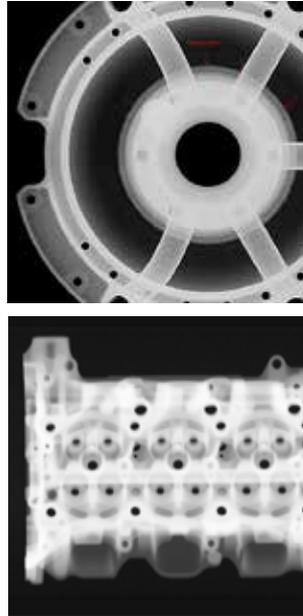
Taymer's high accuracy in cable length measurement meters is critical to understanding your costs and to customer satisfaction. Taymer's cable length measurement meter solutions include cut to length systems for heavy cable, as well as small gauge wire length measurement.

Taymer also provides respooling equipment for automated cable length measurement payoff and takeup of cut to length cable measurement. Taymer's cable length measurement systems includes a dedicated velocity indicator and a cable length measurement count indicator.

#### Features:

- Taymer's hot foil printing technology is ideal for bright, clear, high quality cable marking on tough-to-mark-on surfaces like Cross Linked Polyethylene, Nylon and Teflon.
- Hot foil printing is a very durable method of cable marking, well suited for outside plant cable marking.
- Due to the flexible design, some models can print on top and bottom of the cable, as well as metric and footage.





## X-Ray Units

Eagle X-Ray inspection units are capable of detecting a variety of defects and contaminants, regardless of shape, size or location in the product, or type of packaging.

Eagle X-ray units have been used to inspect castings for the automotive industry for many years. The technology is ideal for detecting faults such as cracked or broken parts and welding defects. Eagle X-ray inspection is also suitable for a range of other automotive industry applications, including the inspection of complex assemblies and micro electromechanical systems, and the inspection of coatings and features within catalytic converters. Detection of contaminants in products include: glass shards; metal fragments; mineral stone; some plastics and calcified bone.

Eagle also offer the MDXX-Ray unit (material discrimination x-ray), which detects historically undetectable materials such as rubber, flat glass and bones.



## Camera Systems

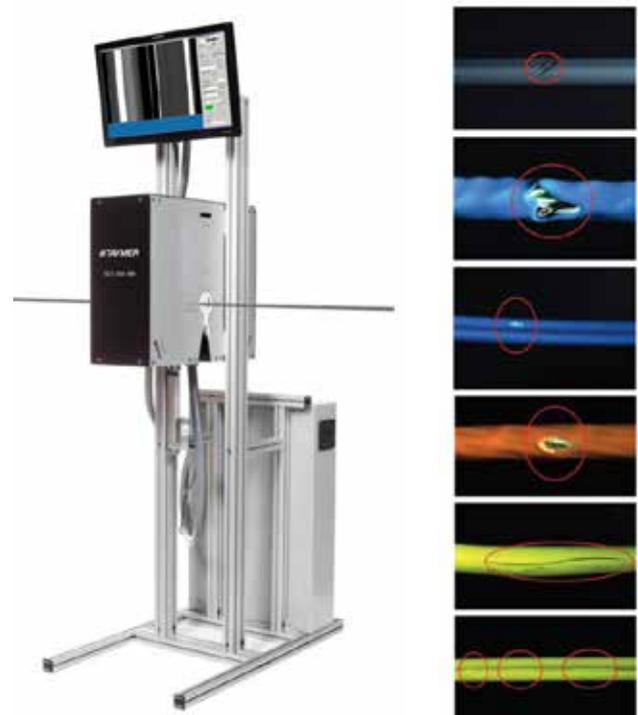
Taymer's camera vision systems for inspecting wire, cable, pipe, tube and similar products are used in many plants all over the world.

These systems include the Surface Inspection system, Print Verification system, Band Inspection system, Color Verification system and Lump and Neck-Down Inspection System.

The Surface Inspector is the only camera based inspection system capable of detecting surface defects while displaying and analyzing every square millimeter of your product.

The Surface Inspector (SI) series vision systems have been designed to work on a variety of products including: cable jacket, pipe, bar stock or tape.

- Surface defects include: pinholes; bulges; neckdowns; surface blemishes; discolorations; tape mis-wrapping; wrinkles; tears and many more.



Quality on the Line



United Barcode Systems design and manufacture industrial automatic systems for labelling, coding and marking, as well as comprehensive automatic identification solutions.



Secondary packaging print and apply labelling is done in real time. In order to achieve optimisation in all production processes, the automation of each phase of the production stage is crucial, as is the solution adopted, and the machinery selected to carry out the task.

With the UBS APL Series, the label identification phase of the secondary packaging can be automated with maximum security and precision, guaranteeing an optimum result. Each label applied provides information in real time on production cycles, inspection, warehousing, quantities, product types, and so forth.

UBS P&A system allows the integration of the best print engines in the market with 203 to 300 dpi resolution: Sato, Datamax or Zebra.

The APL Series End of line labelling systems provide the versatility that you need to be able to label your secondary packaging and pallets according to your specific requirements.

No production cycle is complete without a correct end-of-line identification that also complies with the EU traceability and labelling regulations currently in force.

The UBS labelling systems and services meet the needs of clients operating in the most differentiated of industrial sectors, making it an easy task to adapt to the demands of a highly competitive, dynamic market.

- Bar code, label design, editing software, easy to use, WYSIWYG, and multilingual options.
- Permits line parameters configuration; speed, print hand, orientation, and delay.
- You will not need to order labels, tickets or cards as the UBS labellers allow you to print your labels on your own, when you need it.





## Packaging

For nearly 60 years, the Langen Group has supplied reliable and robust packaging machinery and solutions for Cartoning, Case Packing and Palletizing.

Langen have evolved into a global leading provider of advanced packaging equipment and packaging line integration. Langen's portfolio includes a wide range of proven solutions for the following applications.

Applications:

- Pouches
- Bag in box
- Flow wrapped products
- Bottles
- Stick packs
- Other applications on request

## Spiral Wrapping

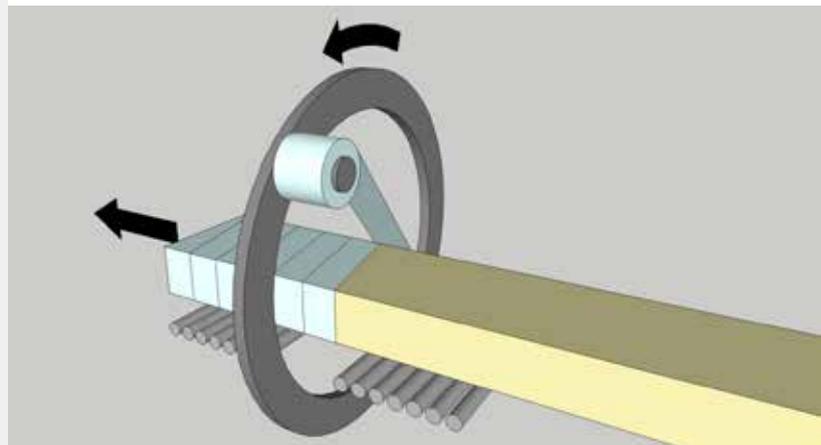
With the new machine line H. Böhl sets a new standard for packaging long-shaped products by spiral wrapping.

Starting with the semi-automatic BSA, up to the modular designed BSB SX version, and including the fully automatic BSB VA model, these machines ensure a wide range of applications for different customer wrapping needs can be easily accommodated.

With the BSB SX, H. Böhl can supply a modular built semi-automatic wrapping machine, which is expandable to become a fully automatic machine if the production requirements increase.

Features:

- Automatic motor driven product advancement (adjustable using a frequency converter).
- Pneumatic pinch in the exit side, manual guide roller on the entry, and exit side of the unit.



## Hassle Free Rental Agreements

Finance options and rental agreements are facilitated by an in-house subject matter specialist who oversees the entire administrative process with some of SA's major banks at no extra charge.

### Benefits of renting:

- Does not affect existing credit lines
- No capital expense approval required
- Placed on balance sheet as an operating expense
- Rental contract can be structured to suit your needs

### To start the rental process you will need:

1. To complete and sign an application form
2. Provide your latest audited financial statements



## Contact Us

With four offices in RSA and 24/7 technical and service support in neighbouring states, and all the way up to Ethiopia, J-Pak is truly the go-to Company for quality control and packaging equipment in Africa.

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