



CastleTM

The complete package

castleindustrial.com

Castle Industrial Supplies The Complete Package





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WE INVITE YOU TO
TAKE A TOUR THROUGH
THE CASTLE BRAND
EXPERIENCE AND CONTACT
US TO DISCUSS YOUR
SPECIFIC REQUIREMENTS

We're always on hand to help,
call **01524 734040** or email
sales@castleindustrial.com
www.castleindustrial.com



Enhancing
Your Brand
Through
Packaging

01

Introduction

Welcome to our 2017 edition of the Packaging Solutions Book from Castle

Our Mission

To provide the complete package of globally recognised products and solutions that will protect our customer's brand.

Our Vision

To become well known as the trusted business partner that is dedicated to help your business achieve growth and address challenges whilst remaining interested, caring, helpful and professional in all our endeavours. We will be at the forefront of innovative packaging solutions.

Our Values

- **Efficiency** We aim to do the right thing, first time.
- **Effectiveness** We will strive to produce more in less time.
- **Service** We will care for our customers because if not, others will.
- **Innovation** We will capitalise on change rather than oppose it.
- **Profitability** We will work as a team and win as a team.

All of these will be done with **Integrity** - we will be accountable and transparent in all our business transactions and activities.

Castle Industrial Supplies Ltd

is accredited to ISO9001 and has a commitment to promote environmental awareness both within the company and with our customers. We also supply products from the Bluewater group that carry the BondMark™ conformity seal.

Whatever your product, size of operation, logistics or type of business, CASTLE will do a packaging survey of your organisation and provide a solution that will suit your circumstances.

THIS PACKAGING
SOLUTIONS BOOK
SETS OUT HOW WE
CAN HELP YOU TO
ACHIEVE THIS
GREATER EFFICIENCY
IN YOUR OWN
OPERATION



WE INVITE YOU
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REQUIREMENTS



02 Branded Packaging



Speak with one of our experts today 01524 734040

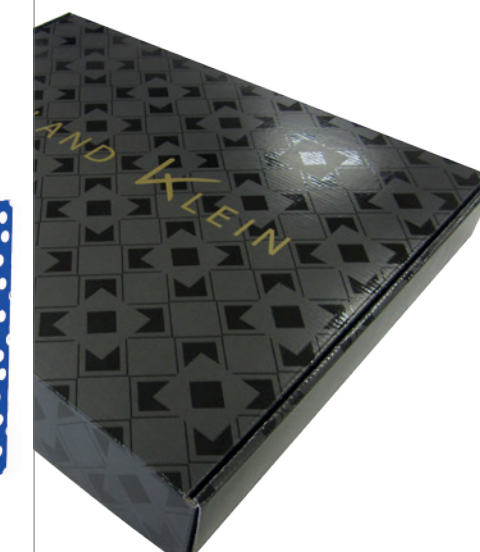
Enhance your brand through your packaging

Our expertise in structural and graphic design will create eye-catching packs to help add value to your product and ensure maximum appeal. We can advise on the most efficient print route during the early stages of design, ensuring that impact is balanced with cost-effectiveness. In certain cases, this ability to combine the finesse of high quality print with the strength of corrugated, can remove the need for additional outer packaging. This helps to create a more favourable environmental image for your product and enables you to meet environmental targets.

Cartonboard and cartons also have the advantage that printing quality and converting options convey products' charisma on the shelves. Packaging needs to act as an advertising spot on the shelf. A high percentage of products in supermarkets are not supported by other forms of adverts in terms of communication so this is where packaging can provide the necessary rewards.



CARTONS HAVE A POSITIVE APPEAL AT THE POINT OF SALE AND ARE PERFECT BRAND MESSENGERS AS WELL AS BEING UNBEATABLE IN TERMS OF SUSTAINABILITY.



We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



Cardboard Packaging

We can produce plain or printed cardboard packaging in all the FEFCO styles using a wide range of printing processes including stereo, screen printing and litho-laminating.

The benefits to you

- Creative packaging solutions that promote
- Increased return on your marketing budget
- Adding value to any product or service
- Bespoke packaging solutions tailored to your promotional aims and to your specified budget



CARTONS ARE NOT JUST PACKAGING BUT A MARKETING INSTRUMENT IN ITS OWN RIGHT AND AN ADVERTISING CHANNEL SAME AS MEDIA, PRINT OR THE INTERNET



WIDE RANGE OF BOX OPTIONS

Printed Boxes

Corrugated cardboard is generally used for shipping, and solid board (folding box board) is often used for presentation packaging and can be litho printed. There are various ways to print boxes as explained below:

Corrugated Litho Laminated Boxes

Litho Laminated boxes give your products both the protection and the visual impact you are after, providing excellent print quality using CMYK spot colour full litho print. These processes print your bespoke artwork directly onto a quality paper, creating a photographic quality image which is then laminated onto the corrugated cardboard prior to making the box.

Flexo Print Corrugated Boxes

Flexographic printed packaging, otherwise known as Flexo printed cardboard uses a much wider range of single colour biodegradable inks which are matched to your Pantone references. Each colour is printed directly onto corrugated sheets. As Flexo printed boxes can be produced at a faster rate, these cardboard boxes tend to be more cost effective and have fewer size restrictions than their litho printed counterparts.

Screen Printed Board

Screen printing is a stencil method of print making in which a design is imposed on a screen of polyester or other fine mesh. A number of screens can be used to produce a multi-coloured image or design which makes it ideal for large bold imagery and generally suited for smaller production runs.

Printed Tape

Castle has many years' experience in providing our customers with various designs and types of printed tape. Available in PVC, polypropylene, Kraft paper, gummed and self-adhesive, tamper evident, as well as standard text warning tapes with a variety of messages.

Note on the Print Process - Due to the print process, screens are run at fairly coarse screen rulings so tints and fades will not reproduce as smoothly as they appear on computer generated proofs and dots will be visible. Typefaces will be matched as closely as possible from our stock range.

We supply printed and self-adhesive labels in all colours, shapes and sizes.



FOR A COMPLETE SYSTEM WE PROVIDE DISPENSERS, HOT MELT ADHESIVE SYSTEMS, AND STAPLING EQUIPMENT



WIDE RANGE OF BOX OPTIONS

SPEAK TO AN EXPERT TODAY ABOUT OUR VAST RANGE OF PRINTING TECHNIQUES AND SEE JUST WHAT WE CAN DO FOR YOU AND YOUR PACKAGING NEEDS

03

Cardboard Boxes & Containers



From a wide range of stock size cardboard cases, postal tubes and pallet containers to completely bespoke shapes and sizes, we can provide a suitable container for the safe protection of your products. These containers can be plain or printed with your own corporate details and colours to market your brand wherever it is transported. In addition, we have complete protective packaging systems, including customised foam fill, loosefill, or air pillows, together with adhesive tapes to finish your presentation.

Packaging can be a challenge if your products constantly change in size and are highly configurable or customisable. We can produce plain or printed corrugated cardboard packaging in all the FEFCO styles and using a wide range of printing processes including stereo, screen printing and litho-laminating.

Cardboard Boxes & Containers

International fibreboard case code

This Code has been developed by FEFCO and ESBO as an official system to substitute long and complicated verbal descriptions of fibreboard case and packaging constructions with simple symbols internationally understood by all, regardless of language and other differences. The references may be used in orders and specifications for packing cases. Additions and modifications may only be made by FEFCO and ESBO. The International Fibreboard case Code catalogue clearly explains FEFCO styles and has line drawings to illustrate the designs.

Some FEFCO styles are more complex and have to be die cut which involves an initial cost of a cutting forme. Therefore we recommend higher order quantities for die cut cartons to spread the cost of the cutting forme.

Case dimensions

Unless otherwise specified all dimensions are expressed as internal dimensions in mm as follows:

- Length (L) x Breadth (B) x Height (H)
- Length (L) = the longer dimension at the opening
- Breadth (B) = the shorter dimension at the opening
- Height (H) = the dimension from the top of the opening to the base.
- The dimensions L, B, H are specified in each description of the case construction, for some models the numerical value of B can exceed the numerical value of L. Dimensions should be measured under standard climatic conditions, on the flat blank from the centre of crease bearing the thickness of the material in mind. For telescope-type boxes the height (h) of the upper part (lid) should be given as a fourth measurement after an oblique stroke, i.e. 355 x 205 x 120/40 mm (L) (B) (H) (h).



WE CAN PRODUCE
PLAIN OR PRINTED
CORRUGATED
CARDBOARD
PACKAGING IN ALL
THE FEFCO STYLES
AND USING A WIDE
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PROCESSES INCLUDING
STEREO, SCREEN
PRINTING AND
LITHO-LAMINATING





Description of basic type groups

(The terms Box, Container and Case are interchangeable in the context of these descriptions).

Please note that several case designs contained in the Code under a specific number could also be classified under other basic type groups.

01 - Commercial rolls and sheets

02 - Slotted-type boxes

Slotted-type boxes consist of basically one piece with a glued, stitched or taped manufacturers' joint and top and bottom flaps. They are shipped flat, ready to use and require closing using the flaps provided.

03 - Telescope-type boxes

Telescope-type boxes consist of more than one piece and are characterised by a lid and/or bottom telescoping over the body of the box.

04 - Folder-type boxes and trays

Folder-type boxes and trays usually consist of only one piece of board. The bottom of the box is hinged to form two or all side walls and the cover. Locking tabs, handles, display panels etc. can be incorporated in some designs.

05 - Slide-type boxes

Slide-type boxes consist of several pieces of liners and sleeves sliding in different directions into each other. This group also includes outside sleeves for other cases.

06 - Rigid-type boxes

Rigid-type boxes consist of two separate end pieces and a body and require stitching or a similar operation before they can be used.

07 - Ready-glued cases

Ready-glued cases consist of basically one piece, are shipped flat and ready to use by simple setting up.

08 - Interior fitments

Interior fitments such as inside liners, pads, partitions, dividers etc., whether tied to Case Design or as singular items. Any shown number of panels is arbitrary and may be increased or decreased as required.

Closure of boxes

Correct and effective closure of the packages is as important as the packaging construction itself. The following methods of closure are possible either singly or in combination:

- BY GLUING,
- COLD OR HOT
- BY TAPING
- BY INTERLOCKING
- BY STITCHING

Corrugated or Solid Cardboard

Corrugated cardboard is generally used for shipping, and solid board (folding box board) is often used for presentation packaging and can be litho printed.

Bespoke cartons (all FEFCO styles available)

What information do we need in order to give you a price for your bespoke cartons?

- Internal size of the box
- Type of board (corrugated or solid)
- Board grade or thickness
- FEFCO style
- Plain or Printed
- Glued or Stapled join (when the FEFCO style has a join)
- Quantity
- Delivery address

Printed boxes

There are various ways to print boxes as explained below:

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Postal tubes

See Mailing Solutions page 38 for more details

Pallet containers

See Export & Transit page 28 for more details

- Second hand cartons / clearance cartons
- Single & double wall cartons some designs.
- Stock size cartons
- Cardboard layer pads
- Cardboard wraps / die cut blanks
- Die cut postal boxes
- Cardboard book wraps
- Cardboard dividers
- Cardboard trays / sleeves / caps
- Wardrobe boxes
- Archive boxes
- Cardboard cores – spiral / convolute
- Anti-slip pallet layer sheets
- Timber crates / pallets
- Embossed straw paper sheets / rolls
- Cardboard discs / Reel end protectors



LITHO LAMINATED BOXES GIVE YOUR PRODUCTS BOTH THE PROTECTION AND THE VISUAL IMPACT YOU REQUIRE, PROVIDING EXCELLENT PRINT QUALITY USING CMYK SPOT COLOUR FULL LITHO PRINT



SPEAK TO AN EXPERT ABOUT OUR FANTASTIC PRODUCT RANGE, EVERYTHING YOU NEED FOR YOUR TOTAL PACKAGING SOLUTION



04

Carton Sealing & Tapes



Speak with one of our experts today 01524 734040

There are four main ways to close a corrugated box:

Taping, stapling, strapping or gluing. Packing tapes generally have two applications: sealing storage boxes and sealing shipping boxes. It makes a difference what kind of tape you use in either case.

There are three factors to consider when choosing your packaging tape:

Application: Storage and shipping boxes require different types of tape adhesives.

Package weight: Heavier packages require thicker tapes.

Tape dispenser size: Your packaging tape roll needs to be the right size for your dispenser.

Case sealing tapes

We offer an extensive range of tapes for every application, including printed tapes with standard texts or custom-printed with your own logo. In particular we offer the e-tape brand which has a small core and big 150m roll length, providing you with less roll changes and downtime. This also gives the benefit of reduced storage space.

For a complete system we provide dispensers, hot melt adhesive systems, and stapling equipment. Self-adhesive tape is the most popular method of sealing packaging due to its versatility, ease of use and ability to create identifiable markings. With the different grades, widths and colours, self-adhesive tape lends itself to any situation and we stock a wide range of specialist tapes for use in assembly work, masking or presentation.

E-Tape

An excellent range of sealing tapes all 150 metres in length providing multiple benefits to users, in cost saving and to the environment. E-Tape offers quality at cost effective levels and when combined with the unique silencing dispenser, e-Tape provides an unparalleled experience in tape sealing.

- 150 metres in length - 2¼ times that of standard rolls of tape
- 56% reduction in storage space and roll changes
- Environmentally friendly solutions as part of the range
- Guaranteed quality
- Excellent dispensing with a unique dispenser which cuts down the noise of PP and Acrylic tapes and creates a smooth unwind.



WE OFFER THE E-TAPE BRAND WHICH HAS A SMALL CORE AND BIG 150M ROLL LENGTH, PROVIDING YOU WITH LESS ROLL CHANGES AND DOWNTIME






We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



E-Tape Plus

An environmentally friendly tape with an acrylic adhesive which is water based and completely harmless to the environment during manufacture and afterwards. To overcome the traditional challenges associated with acrylic adhesives, we have used a high grade acrylic and applied a 20 micron coating on the carrier, creating a brilliant grab, equivalent to a solvent adhesive.

Hot melt tape is the best for shipping boxes because of its superior holding power. Shipping boxes are typically subjected to rough handling in transit. Hot melt packaging tape ensures your boxes stay sealed.

-  VINYL PVC TAPE
-  LOW NOISE TAPE
- SOLVENT POLYPROPYLENE TAPE
- COLOURED TAPE
- SELLOTAPE™ / INVISIBLE / EASY-TEAR
-  HOT MELT
- POLYPROPYLENE TAPE



DENVA Acrylic Polypropylene Tape

Acrylic packing tape is your best bet for storage boxes. Acrylic adhesive can handle a variety of temperatures and settings, including warehouses, garages and storage facilities.

Machine Tape (Polypropylene)

Machine tape helps to increase the efficiency in sealing of regular sized cartons. Case sealing machinery can be integrated into a packing line as manual feed or automatic feed providing a consistent tape application. The machines close the flaps and seal both top and bottom of the carton simultaneously.

Standard Text Printed Tape

Available in PVC, polypropylene, Kraft paper, gummed and self-adhesive, tamper evident, as well as standard text warning tapes with a variety of messages.

Bespoke Custom Printed Tape

Any tape in any configuration can be printed with your own message, logo or contact details. We can print up to 4 colours as standard and up to 6 colours in some configurations.

See Branded Packaging page 06 for more details



SHIELD Tape

Our own range of tapes which are available in crossweave, hot melt, invisible, low noise, polypropylene. We provide both clear and coloured tape which can be either plain or printed.

SPEAK TO AN EXPERT ABOUT OUR FANTASTIC PRODUCT RANGE, EVERYTHING YOU NEED FOR YOUR TOTAL PACKAGING SOLUTION

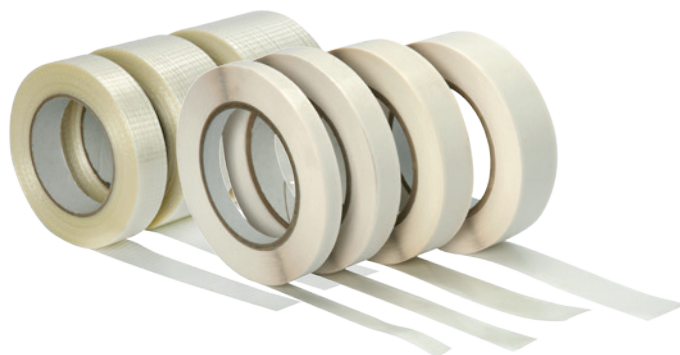


Speak with one of our experts today **01524 734040**



FOR HELPFUL ADVICE ON HOW THE USE OF THESE PRODUCTS CAN SAVE YOU MONEY AND MAKE YOUR PACKAGING OPERATION MORE EFFICIENT, JUST SPEAK WITH ONE OF OUR TEAM ON **01524 734040**

We're always on hand to help, call **01524 734040** or email sales@castleindustrial.com



Specialist tapes

- CROSSWEAVE / FILAMENT TAPE
- GENERAL PURPOSE MASKING TAPE
- **maxtape** PREMIUM MASKING TAPE
- DOUBLE SIDED / TRANSFER/ FINGER LIFT TAPE
- TRANSFER TAPE
- GUMMED KRAFT PAPER TAPE
- TROJAN WATERPROOF CLOTH TAPE
- GAFFA TAPE
- HAZARD / FLOOR MARKING / BARRIER / REFLECTIVE / ANTI-SLIP
- SPECIALIST SPLICING / LITHO
- DUCT TAPE
- FOAM TAPE
- ALUMINIUM FOIL
- MAGNETIC RACKING TAPE
- ELECTRICAL INSULATION TAPE
- HEAT ACTIVATED TAPE
- LOW TACK PROTECTIVE TAPE / FILM
- POLYESTER TAPE



WE OFFER AN EXTENSIVE RANGE OF TAPES FOR EVERY APPLICATION, INCLUDING PRINTED TAPES WITH STANDARD TEXTS OR CUSTOM PRINTED WITH YOUR OWN LOGO



GUMMED KRAFT PAPER TAPE



Hot melt gluing systems

Hot melt glue is a very strong alternative to tape, especially in automated systems where an automatic gluer can be installed. However, hot melt glue is also very popular for gluing together internal fittings.

60WTGG

An economy glue gun for low volume applications. Provides a neat direct application of glue. Designed to take 12mm glue sticks.

GP12GG

A general purpose glue gun for packing and assembly lines or in any high volume applications where an assured performance is required. With a 2kg glue output per hour. Designed to take 12mm glue sticks.

P543GG

A professional, high capacity glue gun designed to take 43mm glue slugs. Ideal in any high capacity situation and comes complete with changeable nozzles to help provide the best distribution of glue for your situation.

SPEAK TO AN EXPERT ABOUT OUR FANTASTIC PRODUCT RANGE, EVERYTHING YOU NEED FOR YOUR TOTAL PACKAGING SOLUTION.

Stapling

Another solution for carton sealing and assembly. Our range of manual and pneumatic staplers provide a quick and neat finish for cartons and special assemblies. Available as hand or foot operated, these tools can be integrated into your packing line, proving very effective in cutting down on assembly and packing times.

see Strapping & Stapling page 58 for more details

Accessories

- Tape dispensers
- Carton sealers
- Hook and loop fasteners



FOR A COMPLETE SYSTEM WE PROVIDE DISPENSERS, HOT MELT ADHESIVE SYSTEMS, AND STAPLING EQUIPMENT



05 Corrugated



Speak with one of our experts today 01524 734040

Corrugated is a high performance packaging material designed to pack, protect and promote products.

The history of corrugated dates back more than a century. In 1856 two Englishmen, Healey and Allen obtained a patent for the first known use of corrugated. The paper was fed through a very simple hand machine made of 2 fluted rolls. The result was a nice fluted paper used as the lining in hats. The first use of corrugated paper for packaging was by an American man, Albert L. Jones who obtained a patent for the use of corrugated paper for wrapping fragile items such as bottles. Corrugated was born from a new usage of paper and from the increasing necessity to pack and protect goods. Thanks to its basic raw materials modern corrugated is basically the same and this ingenious construction is and will remain a profitable, modern and innovative form of packaging.

What is Corrugated?

Corrugated is made from papers made up from cellulose fibres, which are virgin or recycled. This makes corrugated a renewable natural resource. Corrugated board is made from a combination of two sheets of paper called 'liners' glued to a corrugated inner medium called fluting. These three layers of paper are assembled in a way which gives the overall structure a better strength than that of each distinct layer. This forms a series of connected arches which are well known for their ability to support strong weights giving corrugated board considerable rigidity and resistance. The air circulating in the flutes also serves as an insulator which provides excellent protection against temperature variations.

The inventors of corrugated board applied the same principles to paper as ancient architects did to buildings. When trying to uphold heavy loads the most efficient way is by using an arch. Generally the larger flute profiles give greater vertical strength and cushioning. The smaller flutes help enhance graphic capabilities while providing greater structural integrity. By experimenting with flute profiles designers can vary compression strength, cushioning strength and thickness. Different flute profiles can be combined in one piece of combined board.



THE FIRST USE OF CORRUGATED PAPER FOR PACKAGING WAS BY AN AMERICAN MAN, ALBERT L. JONES WHO OBTAINED A PATENT FOR THE USE OF CORRUGATED PAPER FOR WRAPPING FRAGILE ITEMS SUCH AS BOTTLES



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SPEAK TO AN
EXPERT ABOUT OUR
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SOLUTION

Types of corrugated

There are many types of corrugated, each with different flute sizes and profiles which offer many combinations designed to create packaging with different characteristics and performances. The corrugated board is then cut and folded into an infinite variety of shapes and sizes to become corrugated packaging.

Single Face Sheet

A corrugated medium with a linerboard facing adhered to one side. It can be manufactured in sheets or rolls. Single face is principally used as a wrapping material and occasionally for interior packing or padding.

Single Wall Corrugated

A corrugated medium with a linerboard facing adhered to both sides. It is also referred to as "Double Face". This popular and versatile 3-ply construction is converted into a wide variety of containers and packaging components.



ECORAP
CORRUGATED
ROLL

Double Wall Corrugated

Two corrugated mediums with a linerboard facing adhered between them and to both sides. This 5-ply construction is most applicable for packing heavy items where high rigidity and protection is required.

Triple Wall Corrugated

Three corrugated mediums and four linerboard facings. This 7-ply construction is used where large container sizes are involved, such as pallet packs. Corrugated packaging works because visually - it can be plain or printed on in all manner of styles, allowing for individual customer requirements to shine through; efficiently - it provides space-efficient packaging that is ideal for transportation, and it breaks down easily; economically - it saves the costs of product waste, for instance, when transporting fresh produce, time is the critical factor or the produce will deteriorate and be unusable. It is 100% recyclable, 100% biodegradable and 100% renewable. Corrugated cardboard is generally used for shipping, and solid board (folding box board) is often used for presentation packaging and can be litho printed.

ecorap



PRINTED
CORRUGATED
CARDBOARD

Corrugated Litho Laminated Boxes

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WORKS BECAUSE VISUALLY
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INDIVIDUAL CUSTOMER
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SHINE THROUGH

Flexo Print Corrugated Boxes

Flexographic printed packaging, otherwise known as Flexo printed cardboard uses a much wider range of single colour biodegradable inks which are matched to your Pantone references. Each colour is printed directly onto corrugated sheets. As Flexo printed boxes can be produced at a faster rate, these cardboard boxes tend to be more cost effective and have fewer size restrictions than their litho printed counterparts.

Ecorap Corrugated Paper

The traditional and most economical surface protection material. Ecorap is excellent also for interleaving, spacing, pallet base sheeting and for wrapping of oily metal components.



AS FLEXO PRINTED
BOXES CAN BE
PRODUCED AT A
FASTER RATE, THESE
CARDBOARD BOXES
TEND TO BE MORE
COST EFFECTIVE AND
HAVE FEWER SIZE
RESTRICTIONS THAN
THEIR LITHO PRINTED
COUNTERPARTS





06 Environmentally Friendly Packaging

Speak with one of our experts today 01524 734040

Environmentally friendly packaging

Castle is committed to minimising the impact of its operations on the environment by means of a programme of continuous improvement.

1. Purchasing goods and services, which can be manufactured, used and disposed of in an environmentally responsible way.
2. Packaging must be designed to conform with the Essential Requirements and the heavy metal concentration limits in the European Packaging and Packaging Waste Directive (94/62/EEC & SI 1998 No 1165).
3. Meeting and, where appropriate, exceeding the standards required by legislation.
4. Specifying and purchasing items which can be recycled or reused.
5. Minimising packaging volume and weight in line with safety, hygiene and product/consumer acceptance.
6. Enabling disposal of goods in ways that minimise their environmental impact and requiring, progressively, suppliers to take responsibility for disposal.



Environmentally friendly packaging causes less damage to the environment. There are three types:

Reusable packaging can be cleaned and re-used. For example, glass milk bottles are reused. Recyclable packaging is made of materials that can be used again, usually after processing. Recyclable materials include glass, metal, card and paper. Biodegradable packaging will easily break down in the soil or the atmosphere.

Responsibility for the environmental impact of packaging is shared amongst the companies who participate during its lifecycle. This includes the companies that produce the raw material, manufacture the packaging, pack the product, sell the product and import the product or packaging.

Packaging designers - everyone designing packaging must follow environmental regulations. Keep it to a minimum - make sure that the packaging you design only has the minimum weight and volume needed to keep the product safe and hygienic. Hazardous substances - packaging must not contain high levels of noxious or hazardous substances.

Recyclable packaging - packaging must be designed so that a certain percentage of the materials used are recyclable. Packaging for energy recovery - packaging designed to be disposed of through energy recovery (energy through burning materials) must contain at least 50% of organic materials that burn, e.g. paper, wood, cardboard. Biodegradable packaging - packaging designed for composting must be biodegradable.

Reusable packaging - packaging must be designed so that it can be used several times. After that it must meet the requirements for recycling, energy recovery or composting.



RESPONSIBILITY FOR THE ENVIRONMENTAL IMPACT OF PACKAGING IS SHARED AMONGST THE COMPANIES WHO PARTICIPATE DURING ITS LIFECYCLE



We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



OVER THE LAST
TWENTY YEARS IN
EUROPE, FOREST
COVER HAS ACTUALLY
INCREASED BY
AROUND 8%



At Castle we can advise on the most environmentally friendly options that are open to you based on our wide experience.

E-Tape Plus

An environmentally friendly tape with an acrylic adhesive which is water based and completely harmless to the environment during manufacture or afterwards.

Gummed Kraft Paper Tape

The environmentally friendly alternative to standard case sealing options with a paper carrier and water activated adhesive. Supplied in two formats, gum side in and gum side out, this tape can be used with manual or electric dispensers and can be printed with your own message or contact details.

See Carton Sealing & Tapes
page 14 for more details

Corrugated is 100% recyclable, 100% biodegradable and 100% renewable. More than 80% of all corrugated packaging in Europe is made from recycled fibres. Any extra wood needed to replace the remaining amount is taken from forests, that are managed sustainably. Over the last twenty years in Europe, forest cover has actually increased by around 8%. Almost all of the wood fibre used for production of cartonboard in Europe comes from managed European forests. This resource is sustainably managed and renewable and forest owners supplying the industry can demonstrate this by applying to independent, third party auditing bodies for an assessment of their performance.

Environmentally Friendly Packaging



FOR HELPFUL ADVICE
ON HOW THE USE OF
THESE PRODUCTS CAN
SAVE YOU MONEY AND
MAKE YOUR PACKAGING
OPERATION MORE
EFFICIENT, JUST SPEAK
WITH ONE OF OUR
TEAM ON **01524 734040**

07 Export & Transit



Speak with one of our experts today 01524 734040

What is export packaging?

How to make sure your packaging is good enough so that your goods arrive intact and undamaged with your overseas buyer. Export packaging is also often referred to as transport packaging, which is one of three main types of packaging that are likely to be needed for exported goods. Protection avoiding damage to your goods is the main purpose of export packaging.

Transport or export packaging is the outermost layer of packaging and is designed to protect your goods during transit. Examples include wooden crates, metal drums and plastic shrink-wrapping.

Outer packaging is an intermediate layer of packaging, which often also serves a retail-promotion purpose. An example would be a box containing multiple units that doubles as a retail display fixture and can be placed directly on a shop shelf, as is common with many convenience foods.

Sales packaging is the immediate layer of packaging around your goods - the packaging that remains when the goods reach their end-user. Examples include the bottles in which beverages are contained, or the boxes many electronics items are sold in. Sales packaging often also serves a marketing purpose by containing prominent branding images and information.

These types of packaging are like three layers – each layer is complete on its own terms, but contained within a further layer of outer packaging. This guide is concerned primarily with export or transport packaging, but it makes sense to consider all your packaging choices together at the outset.

Your export packaging options

You have a wide variety of options when choosing how to package goods for export, with materials such as wood, paper, metal, plastic, glass and textiles commonly used.



We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



PROTECTION
AVOIDING DAMAGE TO
YOUR GOODS IS THE
MAIN PURPOSE OF
EXPORT PACKAGING

The main types of export packaging include:

Loose or unpacked

A common option for large items such as heavy vehicles. Making sure they're stowed securely is more important than adding a layer of protective packaging.

Boxes or crates

One of the most prevalent options. They are often stacked on pallets and shrink-wrapped for stability. Less durability is required if goods are also containerised. Corrugated cardboard is generally used for shipping. EURO MODULAR PALLET CONTAINERS & CARDBOARD BOXES are designed to fit onto a Euro pallet (size: 1200 x 800mm). They will also fit inside this export container if you need extra protection for your products. FEFCO styles 0200, 0452 and 0201 are in this range.

Drums

Usually made of metal or plastic - commonly used for transporting liquids and powders or goods that need to be kept dry.

Wrapping

Often used with goods stacked on pallets, wrapping - such as shrink wrap or foil - both adds to stability and protects goods.



PALLETS ALLOW SMALLER PACKING UNITS SUCH AS BOXES AND CARTONS TO BE GROUPED TOGETHER

BOXES AND
PALLETS



DO NOT
STACK
CONES

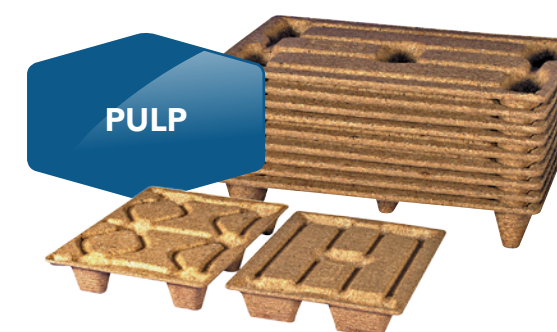
DO NOT
STACK

YOU HAVE A WIDE VARIETY OF OPTIONS WHEN CHOOSING HOW TO PACKAGE GOODS FOR EXPORT, WITH MATERIALS SUCH AS WOOD, PAPER, METAL, PLASTIC, GLASS AND TEXTILES COMMONLY USED.

Pallets

Pallets allow smaller packing units such as boxes and cartons to be grouped together. They allow easy mechanical transporting (e.g. forklift trucks), which eases the process of loading, unloading and warehousing. These options are not mutually exclusive, so you may want or need to use more than one. All timber pallets have been heat treated and certified to meet the ISPM15 regulations for the export of timber. Sheetboard can be produced in any size and used as dividers, pallet stabilisers, base protectors and top boards. We also hold a range in stock for call-off in pallet quantities.

PULP



EXPORT
PALLETS





ONE OF THE REASONS
THAT CONTAINERS
AND PALLETS HAVE
BECOME SO
STANDARD IS THAT
THEY COMBINE
EFFICIENCY WITH
EXCELLENT CARGO
PROTECTION

Containers and break-bulk

For logistical efficiency, containers are used to transport most export consignments. Containers are standardised metal boxes, often measuring 6 metres long and 2.4 metres deep/wide. The goods inside might still need packaging, but the container offers added protection, and increased security from theft. The term 'break-bulk' refers to goods carried as general cargo, rather than in containers. For example, bulk ocean shipments of liquids, grain and ores don't need any packaging.

This increases the risk of damage during transit, so make sure adequate dunnage is used. One of the reasons that containers and pallets have become so standard is that they combine efficiency with excellent cargo protection. Dunnage is protective material placed around the goods to prevent damage from movement, moisture or other causes.

Suspension & Retention Packaging

We are pleased to offer this innovative range of suspension and retention packaging from Germany which offers amazing versatility providing solutions for an incredibly diverse range of products. It is consistent with our company mission to **Protect Your Brand** ensuring that your goods are despatched on time and reach their destination safely and securely. **Suspension Packaging** provides the

ultimate vibration and shock protection to your product which is suspended in the centre of the box between two layers of strong flexible film which moulds around the contours of your product. It is a superior alternative to foam or polystyrene inserts, offering significantly less storage space in your warehouse as it is supplied flat.

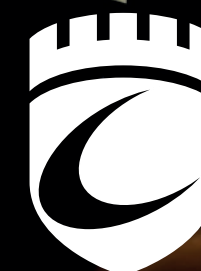
This type of packaging is ideal for the automotive industry where electronic and mechanical components need protection from shock and vibration. It has also been developed successfully for the pharmaceutical industry where drugs and medicines need to reach their destination safely and survive being dropped in transit!

Retention Packaging is ideal for flat products such as smart phones, laptops, tablets and similar products that require anti-static protection. Lighter items can be packed using an all-in-one piece system which is often re-used for returns where necessary. Heavier and larger sized items use a two-piece system which incorporates an integral accessories compartment.

Whatever system suits your products, they all come flat packed, reducing your storage requirements for your packaging. They are easy to unpack and 100% recyclable making them both user friendly and environmentally friendly.



Speak with one of our experts today **01524 734040**



FOR HELPFUL ADVICE
ON HOW THE USE OF
THESE PRODUCTS CAN
SAVE YOU MONEY AND
MAKE YOUR PACKAGING
OPERATION MORE
EFFICIENT, JUST SPEAK
WITH ONE OF OUR
TEAM ON **01524 734040**

We're always on hand to help, call **01524 734040** or email sales@castleindustrial.com



08 Inventory Management

Speak with one of our experts today 01524 734040

Inventory management is an integral part of a successful business

Castle offers complete inventory management including sourcing, purchase, stocking, and logistics.

Advantages of Inventory Management:

- Same day shipping, same day delivery (if requested)
- Reduce your inventory, reduce your overheads
- All products are randomly inspected by Castle saving you inspection time
- Simple warehousing or complete Inventory Management Programs
- Never be out of stock
- Eliminate inventory exposure
- Fixed packaging costs
- Improve your turnaround time
- Product released per your specification
- Improved cash flow
- Improve your bottom line

Call-off orders

Take advantage of economies of scale by ordering larger quantities of product without having to store in your own warehouse. We will store the goods, deliver and invoice as required. This is ideal for protecting against impending price increases or running out of stock.



WE WILL STORE THE
GOODS, DELIVER AND
INVOICE AS REQUIRED



We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



WE WILL AGREE
MINIMUM AND
MAXIMUM STOCK
LEVELS AND MONITOR
THIS OVER A SPECIFIED
TIMESCALE SO THAT
YOU ARE NEVER
WITHOUT YOUR
PRODUCTS

**FREE STOCK
HOLDING**



Consignment Stock

Use this method where you need to keep stock within a limited quantity. We will agree minimum and maximum stock levels and monitor this over a specified timescale so that you are never without your products. This covers both stock and bespoke products.

Purpose of Consignment:

- Cost containment of rising fuel costs.
- Reduction of testing expenditures.
- Better for managing cash flow.
- Ensure an adequate quantity of material available based on required needs.
- Significantly enhances the level of communication between the customer and supplier.

Benefits:

- Ship products to your facility and pay per consumption.
- Maintain accurate financial physical inventory records from shipment through consumption.
- Receive consumption notices electronically.
- Free up cash flow.

Free Stock Holding Service

- Call off your packaging held in our warehouse on your behalf
- Benefit from our bulk buying while reducing outlay and freeing up space

CASTLE SPECIALISES
IN INVENTORY
MANAGEMENT
DISTRIBUTION SYSTEMS
FOR INDUSTRIAL
PACKAGING MATERIALS,
BOTH IN STOCK AND
CUSTOM



Castle are able to offer a full stockholding service. Bulk orders will be held in our warehouse for quick and convenient call-off by customers. Stock is dispatched on a next day delivery service providing a just-in-time delivery solution for customers. This service includes provision of regular stock management reports, keeping you up to date on your stock situation.

Castle specialises in inventory management distribution systems for industrial packaging materials, both in stock and custom. Castle is able to handle the most demanding inventory management requirements, and offers the following advantages to help customers maximize their floor space and reduce their overheads.

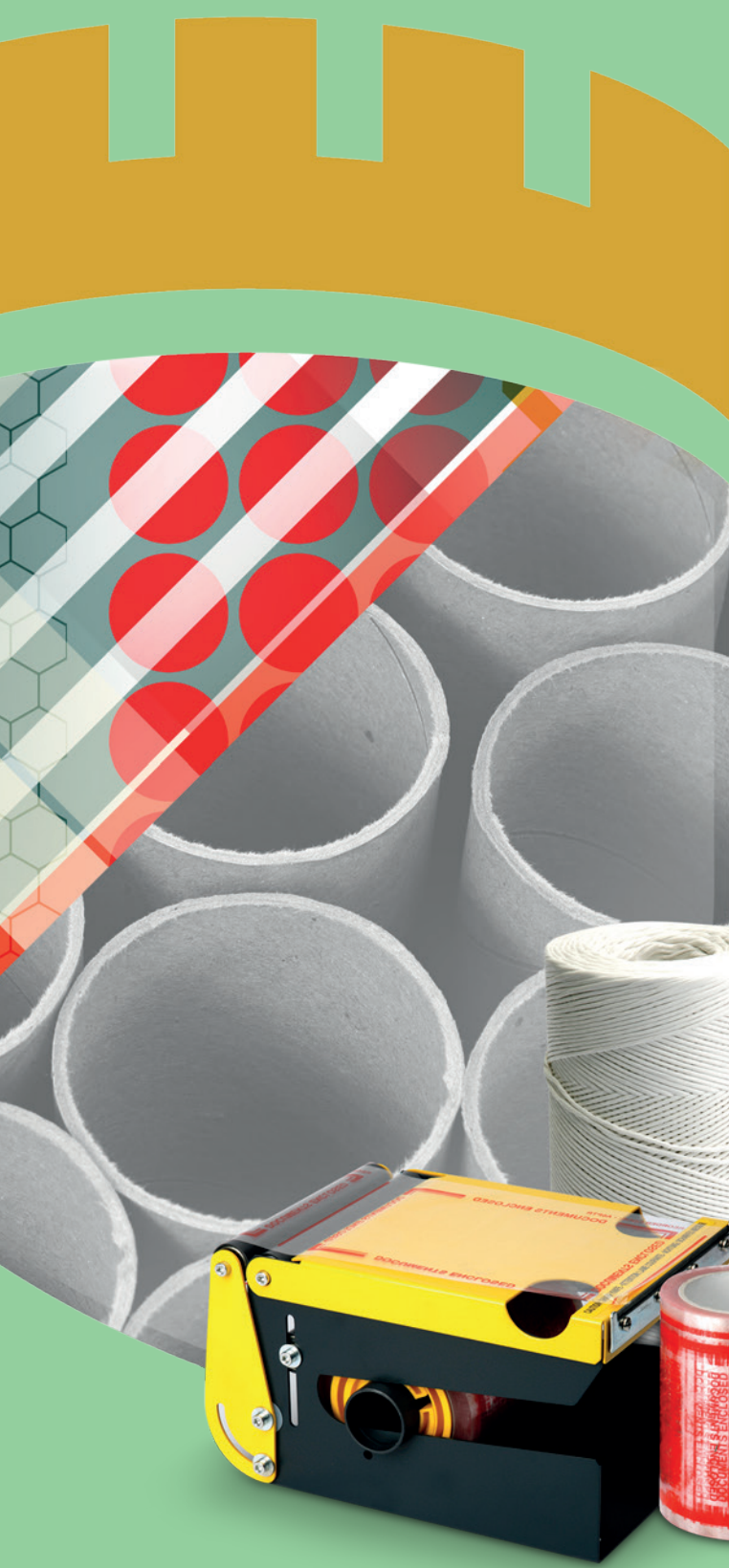
Castle can purchase and stock well in advance, providing customers with a way to free up their capital.

No matter what size your business, competent attention to your inventory management plan and packaging needs are the keys to success. We are here to help you achieve success!

BULK ORDERS WILL BE
HELD IN OUR WAREHOUSE
FOR QUICK AND
CONVENIENT CALL-OFF
BY CUSTOMERS. STOCK IS
DISPATCHED ON A NEXT
DAY DELIVERY SERVICE
PROVIDING A JUST-IN-
TIME DELIVERY SOLUTION
FOR CUSTOMERS



CASTLE CAN
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WAY TO FREE UP
THEIR CAPITAL



09

Mailing Solutions

Speak with one of our experts today 01524 734040

Making sure your mailing products arrive safely

Packaging hints & tips

Consider the following when preparing packages:

- Use good quality packaging materials, for example select a box that is strong enough to protect the contents. Leave space for cushioning inside the carton.
- Cushion contents appropriately, for example with bubble wrap or foam to avoid damage during shipping.
- Wrap each item separately when packing more than one item in the same box.
- Pack tightly to avoid shifting.
- Always use tape that is designed for shipping, such as pressure-sensitive tape, nylon-reinforced Kraft paper tape, or fibreglass-reinforced pressure-sensitive tape. Do not use wrapping paper, string, masking tape or cellophane tape.

When it comes to mailing, we have everything you need from basic envelopes and polythene bags to bubble lined envelopes, pouches and postal tubes. We can provide pre-printed stock or bespoke labels, together with custom printed envelopes for your own corporate identity. Together with the Affix range of document envelopes, you can be confident that your packages will be securely delivered.



MAKING SURE YOUR MAILING PRODUCTS ARRIVE SAFELY



We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



MAKING SURE
YOUR MAILING
PRODUCTS
ARRIVE SAFELY

envosafe
protect



Envosafe Bubble Envelopes

All bubble lined mailing bags can be printed with your own design, subject to minimum quantities. Please ask our sales team for further details to get a quote.

Postal tubes

The original postal tube provides excellent protection for a whole range of products. Available in various lengths, diameters and wall thicknesses and can be supplied with end plugs or folded ends.

Book, CD and DVD mailers

Corrugated Book packs. Available in a wide range of sizes or manufactured to your specific size, please ask our sales team for a quotation.

Affix self-adhesive document envelopes and pouch tape

Plain Self-Adhesive Envelopes

Durable polythene envelopes with white, self-adhesive backing and clear front.

Printed Self-Adhesive Envelopes

Durable polythene envelopes with white, self-adhesive backing and clear front, printed 'DOCUMENTS ENCLOSED' in red.

Plain Self-Adhesive Pouch Tape

Printed, clear self-adhesive tape with a low tack panel for your documents. For use with a dispenser for easy application.



ALL BUBBLE LINED
MAILING BAGS CAN BE
PRINTED WITH YOUR
OWN DESIGN, SUBJECT
TO MINIMUM QUANTITIES

envosafe
secure



Tourer opaque polythene mailing bags

Polythene mailing bags which are very tough and puncture resistant. Complete with an extended lip and permanent self-seal strip. A range of clear and opaque polythene mailing bags with self-seal strips is available in different formats and thicknesses. This is the most popular selection in a wide range of polythene mailing envelopes. We can also produce them to your specification complete with printing.

Clear polythene mailers

Cush n Air bubble lined polythene mailers

Gusseted Kraft paper sacks

Paper sacks can be used to pack loose, non-fragile products and provide a durable package in storage and transport.

Sack ties / cable ties / tags / attachments / security ties

Copper - High tensile, black lacquered wire ties for securing polypropylene tubing, paper sacks and binding metal components.

Plastic - Releasable and lockable ties to provide durable fastening of bags and bundled products. Also can be used for securing items to racks and nets.



Jiffy Padded Bags

The traditional mailing bag which has a tough Kraft outer and a 100% recycled material inside liner.

Plain or printed labels / Diamond Hazard labels

Bold, easy to read parcel labels which convey a cautionary message with high impact.

Rubber bands

Our rubber bands are available in all standard sizes and are packed in 40lb cartons.

Clear tamper evident seals

Static shielding bags

Polythene / Polyprop garment bags WHITE WOVEN POLYPROPYLENE

Tubing - Durable, scuff resistant material ideal for covering heavy products or fabrics in transit or storage.

Sacks - Providing an ideal solution for transit and storage of heavy, rough-edged products

Log net bags

Transit pads

Twine



PAPER SACKS CAN
BE USED TO PACK
LOOSE, NON-
FRAGILE PRODUCTS
AND PROVIDE A
DURABLE PACKAGE
IN STORAGE AND
TRANSPORT



10 Packing Stations



Speak with one of our experts today 01524 734040

Complete packing lines

Whatever packaging materials you use, we sell the equipment to complement them and make your despatch system more efficient. We can also advise on and plan your requirements for the complete packaging operation.

Packing stations

CUSTOMISE your packing operations to utilise your working and storage space with these high quality, robust INTER-CONNECTING UNITS. Built to suit your needs from easily assembled modules constructed from 27mm thick heavy-duty work tops, with ABS edged grey laminate surfaces supported on white coated steel frames that can carry up to 400kg evenly spread. TABLE HEIGHTS are adjustable between 70 cm to 92 cm as standard.

Complete packing station W160cm x D80cm x H162-184cm

- All that is needed for speedy and efficient packing for dispatch, with storage for cartons, wrappings and equipment
- Includes 120cm cutter for Kraft, corrugated or bubble film
- Sturdy construction, tables can support up to 400kgs evenly spread
- Ergonomic design with height adjustable table
- Self-assembly, supplied with easy to follow instructions



CUSTOMISE YOUR
PACKING OPERATIONS
TO UTILISE YOUR
WORKING AND
STORAGE SPACE WITH
THESE HIGH QUALITY,
ROBUST INTER-
CONNECTING UNITS



PACK
BENCH

We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



MODULAR DESIGN
ALLOWS EASY
LAYOUT CHANGE
AND ADDITIONS TO
ALLOW YOUR PACKING
OPERATION TO
DEVELOP ALONGSIDE
YOUR BUSINESS



Complete space saver packing station
W80cm x D80cm x H162-184cm

- All that is needed for speedy and efficient packing for dispatch where space is a premium – includes storage for cartons and equipment
- Sturdy construction and ergonomic design with height adjustable table
- Self-assembly, supplied with easy to follow instructions

Modular packing benches

MODULAR units assembled to maximise the efficiency of your packing operation and save working and storage area space. All stations are high quality and robustly constructed from 27mm thick heavy-duty work tops with ABS edged grey laminate surfaces, supported on white coated steel frames that can carry up to 400kg evenly spread. Modular design allows easy layout change and additions to allow your packing operation to develop alongside your business. Supplied flat packed with assembly instructions. The tables are HEIGHT ADJUSTABLE between 70cm to 92cm as standard.

Paper / bubblewrap / polythene dispensers

Complete loosefill dispenser station
W80cm x D80cm x H313-395cm

- Hopper has 30cu.ft capacity with scissor valve
- Overspill grid and collector included
- Scaffold height adjustable between 240-300cm from table level

Carton Taper & Conveyor

Case sealing machinery can be integrated into a packing line as manual feed or automatic feed providing a consistent tape application. The machines close the flaps and seal both top and bottom of the carton simultaneously

Pallet Wrapping Machines

Strapping Machines – fully & semi-automatic



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11

Polythene

Polythene packaging products

Polythene packaging is a most efficient way to protect merchandise from external dirt, moisture and to provide chemical resistance. Polythene comes in many shapes and sizes for protection, so whatever the profile of your product, you can safely protect it against moisture and scratches. Layflat tubing gives you the versatility to create your own size sleeves or bags, and the Pro-loc range of grip seal bags is great for clean presentation of small items. We also offer a complete range of standard polythene bags, liners and covers, in various dimensions or thicknesses which can be printed to show your company details. Individual bags packed loose in boxes or perforated on a roll, or single wound/centrefold sheeting is also readily available.

Technical Information Explained

Although polythene is a very simple product, when it comes to manufacturing there are a number of terms for different formats of product style, packing and measuring.

Thickness is expressed in microns or in gauge.
Micron - 1 micron is 1/1000th of a millimetre.
Gauge - 4 gauge = 1 micron for example 500g = 125mu

Natural is used to describe the material colour without any colour additives. It is clear although it can become more translucent depending on thickness and amount of recycled material used.

Virgin material is derived from Polymer which contains no recycled content.

Regran is material which is either 100% recycled or contains recycled material.

Tint relates to colour additives. If you do not have solid colour you have a 'tint' of colour to distinguish it.

Layflat tubing

Versatile - make your own size bags



POLYTHENE PACKAGING IS A MOST EFFICIENT WAY TO PROTECT MERCHANDISE FROM EXTERNAL DIRT OR MOISTURE AND TO PROVIDE CHEMICAL RESISTANCE

POLYTHENE LAY FLAT TUBING





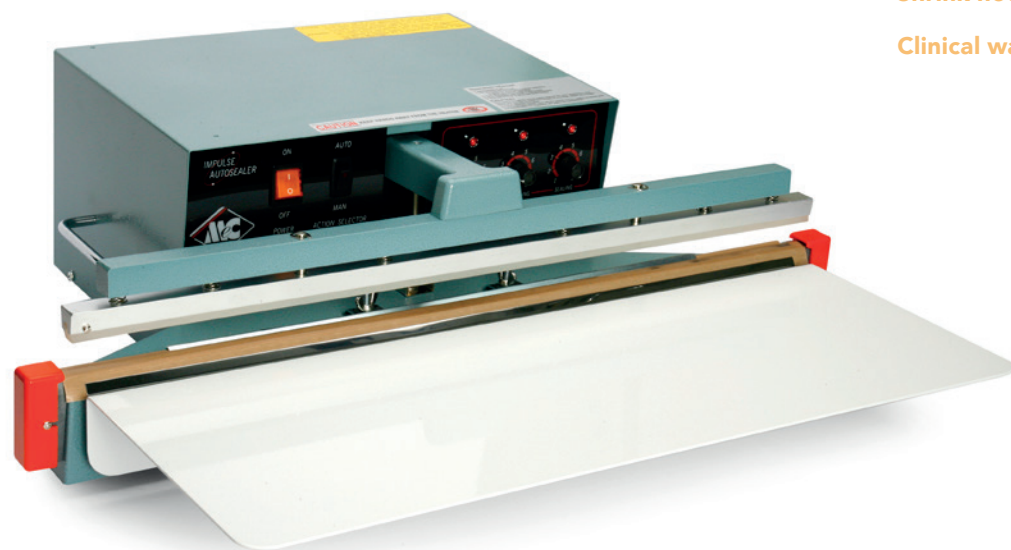
Heat sealers

Heat sealers can be used with either Polythene Layflat Tubing or PVC/Polyolefin Shrink film, just by using a different heat element - flat wire for Layflat Tubing and round wire for shrink film.

The most common version is the bar sealer which has a spring loaded hinge at one end and an adjustable heat controller for different thicknesses of film. You can also have the sealer complete with a film cutter to ensure that your seals are always neatly finished.

Where fast packing is required or both hands are needed to hold the package, we supply a foot operated magnet sealer which can be either a manually activated or automatic seal. This version of sealer can be supplied either on a height adjustable stand or as bench mounted. Highly efficient, reliable and very tidy, our heat sealers will help you to cut down on packing time.

HIGHLY EFFICIENT,
RELIABLE AND
VERY TIDY, OUR
HEAT SEALERS
WILL HELP YOU TO
CUT DOWN ON
PACKING TIME



Polythene bags / sheets

Our Low Density polythene bags are excellent for packing virtually any product for transport, presentation or simply as a dust cover. Available in a wide range of sizes and thicknesses, we can also produce LD polythene bags to your size and colour, as well as providing a complete design and print service. All special production runs of polythene bags can be produced as Anti-Static or printed with your own design

Grip seal bags – Pro-loc

Refuse sacks / wheelie bin liners / compactor sacks

Bin liners

Aggregate sacks

Woven polypropylene sacks / tonne bags

megatop™ Pallet top sheets

Shrink hoods / sheeting

Clinical waste bag

PVC / Polyolefin shrink film

The original high clarity shrink film which gives an excellent presentation and holds your product together securely. PVC shrink film responds quickly to heat and gives very reliable results. This film can be used in conjunction with manual, semi-automatic or fully automatic applications - a dependable option. Polyolefin is a highly versatile shrink film ideally suited to high output applications. On an automated line Polyolefin gives greater yield and has greater puncture resistance than PVC. It gives a good presentation and performs well with irregularly sized packs. Polyolefin is also 100% recyclable

OUR LOW DENSITY
POLYTHENE BAGS ARE
EXCELLENT FOR PACKING
VIRTUALLY ANY PRODUCT
FOR TRANSPORT,
PRESENTATION OR
SIMPLY AS A DUST COVER



Vest style carriers

Punched handle carriers

Paper carriers

Polyprop / polythene garment bags

Dolav liners

VCI Rust inhibitor polythene

Impulse heat sealers

Temporary protective sheeting

Vacuum pouches

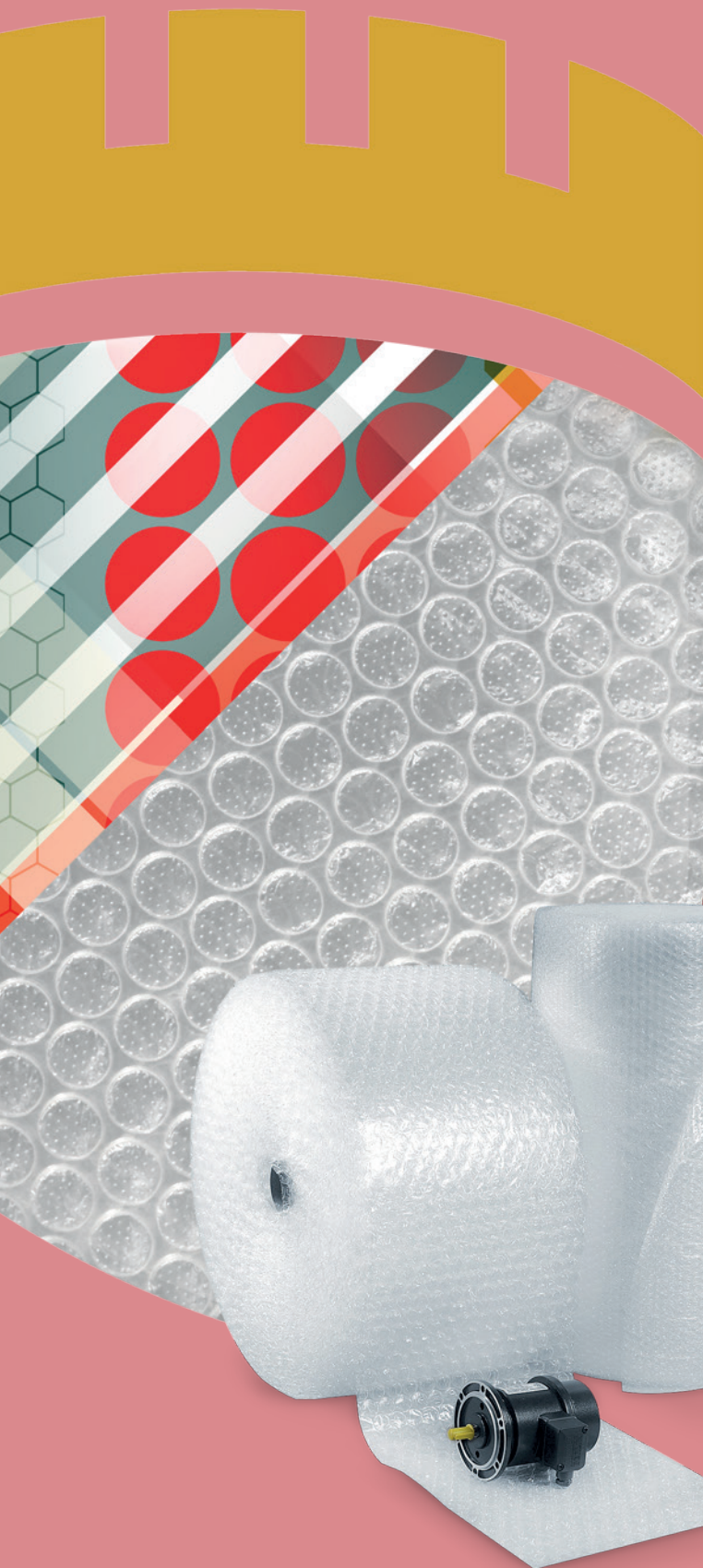
Box liners



THE ORIGINAL HIGH
CLARITY SHRINK
FILM WHICH GIVES
AN EXCELLENT
PRESENTATION AND
HOLDS YOUR PRODUCT
TOGETHER SECURELY

12

Protective Solutions



Speak with one of our experts today 01524 734040

Protective Packaging Solutions

Keeping your products safely protected is our business. From the standard grade bubble wrap and corrugated paper to the more rigid foam profiles, you can despatch your goods in confidence. Biodegradable loosefill and recycled waste cartons from cardboard convertors support an environmental policy, together with special inserts and air cushioning for sensitive applications. In addition the System90 cardboard edge protection will add extra stability to your pallet loads.

In packing processes where standard items are being packed in batches or are being continuously packed, we can supply custom designed and manufactured fittings to hold your products within the outer carton. These can be made out of various materials such as foam, polystyrene or cardboard providing protection which withstands all treatment apart from the extreme.

Foam - available in varying grades, providing a durable and reliable protection, ensuring a longer life span than polystyrene. The natural 'give' in foam means that unusual shaped products can be easily incorporated without complicated cutting patterns. This also provides a high level of shock absorbency.

Polystyrene - economical and very light weight, fittings can be produced easily from polystyrene. Polystyrene is primarily used in a disposable application where packaging is not returned.

Corrugated cardboard - extremely versatile innovative designs can incorporate multiple items within an outer carton. Corrugated cardboard provides extra rigidity, prevents crushing and provides an environmental alternative to foam and polystyrene. It also provides opportunities for enhanced presentation of your goods with options of board colours, grades and printing.



BIODEGRADABLE LOOSEFILL AND RECYCLED WASTE CARTONS FROM CARDBOARD CONVERTORS SUPPORT AN ENVIRONMENTAL POLICY, TOGETHER WITH SPECIAL INSERTS AND AIR CUSHIONING FOR SENSITIVE APPLICATIONS



We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



BUBBLE
POUCHES ARE
MANUFACTURED
FROM SMALL BUBBLE
WRAP AND COME AS
STANDARD WITH A
SELF-SEAL FLAP

BUBBLE
POUCHES**Airsafe bubble wrap**

(standard and anti-static) Used as surface protection, void fill or for interleaving, Airsafe bubble wrap provides a multipurpose solution for small and large users.

Airsafe bubble pouches and sheets

(standard and anti-static) Airsafe double laminated small bubble wrap has the cells between 2 tough layers of polythene providing a robust alternative to traditional bubble wrap. Bubble pouches are manufactured from small bubble wrap and come as standard with a self-seal flap. Anti-Static Pouches with Self Seal Flap. Bubble pouches can be produced in many sizes, in standard, anti-static or metallised film and with either a self-seal flap or flush edge.

Packaging foam

Polyethylene Foam for interleaving & wrapping. Protects against scuffing, scratching and abrasion. Foam can be supplied in cut sheet and pouches to suit your requirements.

Ecorap

Corrugated paper rolls / sheets
The traditional and most economical surface protection material. Ecorap is excellent also for interleaving, spacing, pallet base sheeting and for wrapping of oily metal components.

Void fill / loosefill

Our void fill systems provide a choice of proven methods which ensure your products are kept secure and are protected from impacts, shocks and mishandling. As today's environment gets increasingly competitive, reducing product returns is essential to maintaining the edge on service as well as minimising overheads.

Fastfil and Biofil are easy to use to protect products and fill the gaps when packing boxes. The shape of the loosefill chips enables them to lock together to improve protection. 15 cubic feet Bags

Fastfil polystyrene

Made from 100% recycled material

- Fully recyclable
- Fully re-usable
- Free of CFCs
- Clean
- Lightweight
- Good memory - ability to go back to original shape when pressure removed

Biofil (100% biodegradable)

- Produced from fully biodegradable materials - vegetable or wheat starch
- Environmentally Friendly (will dissolve in water)
- Fully re-usable
- Clean
- Lightweight

FASTFIL AND BIOFIL
ARE EASY TO USE
TO PROTECT
PRODUCTS AND FILL
THE GAPS WHEN
PACKING BOXES

**VCI (Rust Inhibitor) Kraft paper**

VCI Paper (Volatile Corrosion Inhibitor) helps to prevent the corrosion of metals, without applying any special protective coatings. VCI are organic salts derived from amines which gradually volatilise saturating the internal environment of the package by depositing these salts on the metal surface. It will form an invisible monomolecular layer which protects against corrosion. When opened, this protective layer immediately dissipates, leaving the metal clean and ready for use.

Products are wrapped or interleaved with VCI paper, and vapours are then naturally emitted which saturate the air space. These vapours form an anti-corrosion protective film on the metal surface, this remains in place, in a sealed environment, until the container is opened. The vapours then evaporate and disappear naturally; with no need to remove any residues, the surface remains unaffected by the entire process. During the period that the metal is covered with this protective film, corrosion is prevented or at least minimised, depending on the amount of VCI paper used, the length of storage and the tightness of the seal.

Vermiculite loosefill**Plastic edge / corner protectors**

We supply a range of low cost expandable corner protectors to fit a variety of panel thicknesses. Robust and easy to fit, these corner protectors are ideal for transit and storage.

Protective Sleeving**Kraft paper rolls****Kraft paper sheets****Silica gel / activated clay desiccant****Foam profiles ('U'-profile, 'L'-profile, 'O'-profile)**

Perfect for edge protection Polyethylene foam profiles are excellent for protecting products from repeated impact and heavy loads. Ideal for finished goods and fragile material such as glass, worktops and furniture.

Cardboard Edge Guards

Solid board edge protection for providing reinforcement and protection of pallets. Can be custom made to size and printed with your own details.

System 90 Cardboard edge guards

System90 is a cardboard edge board for providing reinforcement and stability of pallets. It is an economical solution made from recycled waste board, hence protecting the environment. Available in a range of stock sizes, it can also be custom made to your own requirements and printed with your own details.



PERFECT FOR
EDGE PROTECTION
POLYETHYLENE
FOAM PROFILES
ARE EXCELLENT
FOR PROTECTING
PRODUCTS FROM
REPEATED IMPACT
AND HEAVY LOADS





FOAM PACKAGING
CAN PORTRAY A
PROFESSIONAL IMAGE
FOR YOUR COMPANY
AND YOU WILL
MINIMISE THE TIME
SPENT IN PACKING
YOUR GOODS.

Waxed Kraft / Kraft Union

Constructed from a layer of bitumen between two layers of Kraft paper, Bitumen Kraft Union paper can be used as a barrier for water, oil or grease, making it ideal for the engineering sector. Can also be used for lining export crates to prevent moisture penetration.

Bespoke foam fittings

Foam packaging can portray a professional image for your company, and you will minimise the time spent in packing your goods.

Furniture blankets

Furniture Blankets are a 4 ply paper pad. The central layers are made of 100% recycled, embossed paper to give the blanket body and create a tough construction. The outer layers are smooth Kraft paper to provide a safe, scratch free surface when protecting finished furniture.



Fluted polyprop protective sheets

Crepe Kraft rolls

White news offcuts

Tissue paper / Greaseproof paper

Expanding foam pillows / expanding foam system

Wood wool

Temporary protective products

Vacuum pouches



FOR HELPFUL ADVICE
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THESE PRODUCTS CAN
SAVE YOU MONEY AND
MAKE YOUR PACKAGING
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13 Signs & Labelling

Signs & Labelling for Packaging

When deciding on labels for your product, there is no substitute for basic market research. Look at your competitors and other products on the market and try to gauge what works and what doesn't. Businesses often underestimate the significance of a label and the effect it can have on sales, so be sure that the one you go for really is the right one for your product, because last minute changes can be costly.

A clear and simple label will help your product stand out on the shelf, which is the ultimate aim. However, while labels should be uncomplicated, make sure that nothing is missed out in the wording, as this will be extremely pricey and burdensome to correct.

Self-Adhesive Labels

We supply printed and self-adhesive labels in all colours, shapes and sizes. Coated and uncoated stocks

Parcel Labels

Bold, easy to read parcel labels which convey a cautionary message with high impact. Standard warning labels from stock

Safety signs

Complete range of Health & Safety compliant signage and facilities management products

Direct thermal or thermal transfer

Multipurpose labels

Hazard diamond labels

Tamper evident

Magnetic

Warning signs



A CLEAR AND SIMPLE
LABEL WILL HELP YOUR
PRODUCT STAND OUT
ON THE SHELF, WHICH
IS THE ULTIMATE AIM



14

Strapping & Stapling

Strapping & Stapling

Whatever the size and shape of your load or however you may wish to transport it, we stock an extensive range of strapping and banding to secure the consignment. Tenso polypropylene strapping is readily available.

Stapling is another solution for carton sealing and assembly. Our range of manual and pneumatic staplers provide a quick and neat finish for cartons and special assemblies. Available as hand or foot operated, these tools can be integrated into your packing line, proving very effective in cutting down on assembly and packing times.

What are some of the benefits of stapling over other methods of box closure?

Cost effective

The more cartons you close, the more you'll save by stapling. Strapping and taping can be up to 50% more expensive in terms of material and labour costs. Furthermore, many packaging designs can be simplified to use less material when staples are used for closing - and less material means lower packaging costs.

Strong, stable and secure

Stapling is ideal for packaging heavy items and for long distance shipping. They also hold well in all weather and environmental conditions. A stapled box is always a safe package, whether damp, dusty, hot or cold.

Attractive and "pilfer-proof"

A stapled box leaves a clear, unmarred surface; no part of the box is obscured (especially print) and the box achieves its function as a messenger. Because a stapled box is difficult to re-close, the staples act as a deterrent to the thief. Traces of the crime are obvious; thus a break-in during transport can be detected before the package reaches the customer.

Environmentally friendly and efficient

Staples are 100% natural and recyclable. They are also compact, requiring only 1/40 of the space needed by tape.



THERE ARE A WIDE RANGE OF WIDTHS AND BREAKING STRAINS AVAILABLE TO ORDER. WE KEEP THE MOST POPULAR SIZE IN STOCK



TENSO

Tenso strapping products

Polypropylene strapping provides a strong versatile load stability solution and doesn't hinder airflow movement through the load, especially important if it is fresh goods. Polypropylene strapping can also be printed with your message.

Polypropylene hand strapping

When strapping pallets, irregular sized parcels or when your demand for strapping is not constant, then hand strapping systems are able to provide a solution. Available in four breaking strains, polypropylene hand strap is applied with a ratchet tensioner and sealed with a metal seal. In high output applications of pallets we supply a friction weld tool which tensions and heat welds the strap in seconds.

Polypropylene machine strapping

Polyester strapping

TORNADO

Tornado Corded polyester / woven

We also stock polyester and steel strapping and the Tornado range of woven strapping.

Steel strapping / stainless steel strapping

In industrial applications where the loads are very heavy or material is compressed and needs to be under maximum tension then steel strapping provides the option which polypropylene strapping cannot. Made from high tensile extruded steel, steel strapping can be sealed with special seals or sealed with a crimping tool which requires no seal.

Seals & buckles for all types of strapping

Steel crimp seals used in conjunction with a strapping sealer or combination tool. Self-securing buckles which remove the need for seals. Feed the strap through the buckle and tension.

Corner & edge protection

Cardboard Edge Protectors:

Prevents edge crush and adds stability to the load. We can produce cardboard edge protection to your specification - minimum order quantities apply.

Plastic Corner Protector:

Plastic corners to prevent crushing or cutting where the strap is tensioned on the corner.

Strapping tools – tensioners, crimpers, battery tools, combination tools, dispenser trolleys etc.

Machine stapling equipment

B561PN

A foot operated carton base stapler to complement the carton top stapler. With a long base arm to keep the operation at a comfortable operator height, this tool can be used to secure the base of cartons, staple large trays and join boards together where both hands are required.

JK35-590

An excellent pneumatic, heavy duty hand tacker which provides an instant fixing solution for many materials. The wide crown staples used ensure that materials are not punched through but are secured to maximum effect. Widely used in securing cardboard packaging to wooden pallets to help secure loads in transit and prevent migration of large cartons. This range also includes pneumatic pliers for stapling thick materials together such as heavy duty cardboard. Ideal for producing bespoke packaging in situ.

Hand stapling equipment

R31 Heavy duty pliers with a capacity of up to 70 sheets of paper. Ideal for use with cartons and mailing bags. Uses 78/8, 73/10 and 73/12 staples.

R1/24 General purpose stapling pliers with a capacity of up to 50 sheets of paper. Uses 24/6 and 24/8 staples.

R13 Lightweight hand tacker for lighter duty applications. Ergonomically designed for easy use. Uses 13/4, 13/6, 13/8 and 13/10 staples.

R34 Heavy duty hand tacker for stapling cardboard, polythene and most fabrics. Fitted with a pressure adjustment to allow firing through tough materials. Uses 140/6, 140/8, 140/10 and 140/12 staples.

Carton top staplers

Provide an alternative to self-adhesive tape or glue to seal cartons and works as a tamper evident seal. If staples are removed then it is immediately obvious. The operation takes a matter of seconds and provides a very neat professional finish to a carton.

Carton top staplers are also available as pneumatic powered with options to be suspended above packing stations so that they are always available but not blocking up valuable packing space.

CTS32 Wide Crown Staples

Copper wire construction which gives a strong and secure fixing.

Narrostrap

As strong as steel and as soft as fabric - Narrostrap is a fibre based webbing strap which can tension up to capacities higher than steel strap but removing all the risks associated with steel strap. Here are a few of the advantages:

- Very high tensile strength and more absorbent to dynamic stress
- System set-up very inexpensive and simple to use
- No sharp edges to affect load and can be re-tensioned if load settles
- Very versatile; can be used in multiple ways on virtually any material
- Weather, water and UV resistant.
- Much lighter and easier to handle than steel strapping
- Does not cut hands and doesn't require protective clothing to use it.

There are a wide range of widths and breaking strains available to order. We keep the most popular sizes in stock.

PROVIDES AN ALTERNATIVE TO SELF-ADHESIVE TAPE OR GLUE TO SEAL CARTONS AND WORKS AS A TAMPER EVIDENT SEAL

OUR RANGE OF MANUAL AND PNEUMATIC STAPLERS PROVIDE A QUICK AND NEAT FINISH FOR CARTONS AND SPECIAL ASSEMBLIES



15

Stretchfilm

For load stability we offer an extensive stock range of palletwrap in all grades, including coloured (tinted) and black security film, which is suitable for application by hand or machine. In particular we supply the e-stretch high performance film with its unique reinforced edges, giving you real cost savings on every pallet wrapped. However you want to apply the film, we can provide the equipment to suit both your circumstance and budget.

Stretchfilm Products

Pre-stretched film is stretched close to its ultimate break point prior to being wound onto rolls for final use. This means the film doesn't require as much stretching energy as a standard stretchfilm to achieve the same wrapping force. This is a key reason why pre-stretched films are popular for hand wrap. The manufacturers create pre-stretched film by elongating it mechanically between two film carriage rollers. Since the surface of the secondary (larger) roller rotates faster than the primary roller, the film gets pulled between them and stretches. The resulting rolls are generally light and easy to handle, reducing operator fatigue. Since there's very little torque involved, users also benefit by being able to use a walk-forward wrapping technique, which can help prevent slip and fall incidents. In terms of material costs, pre-stretched films are much thinner than traditional stretch films. Ultimately, this produces less environmental waste since the operator uses less material during application.



E-stretch

High performance stretchfilm - for machine & hand application. E-Stretch Hyper is a pre-stretched pallet wrap film.



SINCE THERE'S VERY LITTLE TORQUE INVOLVED, USERS ALSO BENEFIT BY BEING ABLE TO USE A WALK-FORWARD WRAPPING TECHNIQUE, WHICH CAN HELP PREVENT SLIP AND FALL INCIDENTS





SPEAK TO AN
EXPERT TODAY
ABOUT OUR VAST
RANGE OF PRINTING
TECHNIQUES AND
SEE JUST WHAT WE
CAN DO FOR
YOU AND YOUR
PACKAGING NEEDS

MEGASTRETCH
STRETCHFILM



Megastretch stretchfilm

Cast or blown, including coloured, for machine & hand application. This is a high performance pallet-wrapping film that offers exceptional wrap quality at very competitive prices. MEGASTRETCH film is made up of a unique blend of polymers that give the film excellent puncture resistance, reducing film breakages, and giving very secure palletised loads.

'Handy wrap' mini rolls

Small scale hand film for all bundling applications. Applies quickly and easily and leaves no residue on the product.

Environmentally friendly coreless stretchfilm

Coreless is the ultimate environmentally friendly product. With a unique manufacturing process, the film is wound without a core and is applied with a reusable dispenser, eliminating cardboard and 'end of roll' wastage.

Hand film dispensers

Stretch netwrap / perforated stretchfilm

Megatop polythene top sheets / hoods

Single wound / Centre folded shrinkfilm

Polythene shrinkfilm provides one of the most stable methods of securing loads.

Heat shrunk polythene provides a very strong and secure load, and can be applied in virtually any situation. The polythene comes either as centre folded on a roll or as hoods which slide over the pallet load. Heat is applied by the operator with a gas fuelled heat gun and the material shrinks around the load holding it in place.

PALLETWRAPPING MACHINERY

Reliable European built turntable machines offered with full service backup.



FOR HELPFUL ADVICE
ON HOW THE USE OF
THESE PRODUCTS CAN
SAVE YOU MONEY AND
MAKE YOUR PACKAGING
OPERATION MORE
EFFICIENT, JUST SPEAK
WITH ONE OF OUR
TEAM ON **01524 734040**

16

Warehouse Solutions



Speak with one of our experts today 01524 734040

Total warehouse solutions for efficient handling and dispatch of your goods

Layout and method play a large part in an efficient dispatch area and the storage of goods. We can give advice on all angles that have to be considered to cut down on time and investment while providing the most efficient way of getting your goods out of the door.

We will work with you, providing drawings, trials and full quotations to ensure that your dispatch areas fit exactly to the capabilities of the packing methods you choose.

Pallet Wrapping Machines

The Fully-Automatic machine integrates seamlessly into any packing line and becomes part of the rolling conveyor.

Strapping Machines – fully & semi-automatic Polypropylene strapping systems

Semi-Automatic - for medium parcel volume

The Semi-Automatic machine is very simple to use with the strap being passed around the parcel, inserted into the sealer head and the machine tensions up the strap, seals and cuts to present a tight and neat band.

Fully-Automatic - for high volume

The Fully-Automatic machine integrates seamlessly into any packing line and becomes part of the rolling conveyor. Parcels are rolled underneath the arch and the start button is pressed, causing the band to tension around the parcel, seal and cut, without the need of any manual feeding. Very quick and simple, saving vital time and money. Ideal in rapid dispatch areas where regular sized parcels are being processed.



THE FULLY-AUTOMATIC MACHINE INTEGRATES SEAMLESSLY INTO ANY PACKING LINE AND BECOMES PART OF THE ROLLING CONVEYOR



We're always on hand to help, call 01524 734040 or email sales@castleindustrial.com



THE PAPERPLUS
SYSTEM PROVIDES
A SUPERB VARIETY
OF SOLUTIONS
FROM COMPLETE
ALL-ROUND
PROTECTION
TO LIGHTWEIGHT
TOP FILL

Waste cardboard convertors / cardboard shredders

Air void fill systems

We offer a range of machines that will produce air filled cells on demand either as bubble on demand, cells, or tubes. Call our sales team to find which system suits your application.

Paper void fill systems

The Paperplus system provides a superb variety of solutions from complete all round protection to lightweight top fill. The papers are highly developed to provide maximum yield from environmentally friendly papers, while operating at high speed. Integratable into virtually any packing situation, Paperplus can be used for any product. Versatile - A large range of paper systems suitable for packing of light, medium and heavy weight items.

Flexible - Multiple machine configurations allow for easy integration into packing processes with the most efficient production methods.

Cuts Costs - Due to the compact nature of the rolls and the ingenuity of the machine functions, pre-use void fill storage is minimal.

Ultimate - Paperplus offers the best and most effective form of product protection in terms of shock resistance, product migrations and stability.

Environmental - The paper contains recycled content and is fully reusable and recyclable. It gives off no harmful substances in production or during use.



AIRPOUCH
BUBBLE ON
DEMAND

FastWrap
AirPouch
A PRODUCT OF AUTOMATED PACKAGING SYSTEMS

Ripak 2200 / Pakit shrink guns

The Ripack Heat gun is a professional tool and is highly developed to give users greater control and increased safety. A few of the key features are:

- Double safety adjustable regulator
- Cold touch flame guard
- 8 metre hose with swivel connectors
- Very short shrinking time due to wide span of flame.

Impulse heat sealers

Gas cylinder trolleys

Bag neck sealers

Counter Roll Holders

To provide the easy dispensing of Kraft papers, the dispensers have a blade on the front edge to cut the paper off at the correct length. They are supplied with brackets so that they can be either wall mounted or simply sit on your bench top.

Cutting Tools

Essential to the packing room and warehouse environment, we have a range of cutting tools to assist you in cutting material efficiently and safely.



K100
STANLEY
KNIFE

K100 Stanley Knife With Scabbard

Ergonomically designed knife for heavy use. Supplied complete with a holster so that your knife can be stored safely, just at hand.

K200 Stanley Knife

The traditional retractable knife in an ultra slim metal case which has storage within the case for the double pointed blades.

CK18 Draper Value Knife

An economical, plastic cased retractable knife with a snap-off blade.

MA1

A robust safety cutter with a unique cutting action that ensures tough material is cut easily. Also fitted with a thumb nail blade.

EFC12

A lightweight stretchfilm cutter which ensures protection for the user and the products.

ACK Package Corner Opener

A unique corner cutting knife for accurate cutting of cartons. The 90° guide ensures protection for the goods within the box.

CO-2 Pak It

A multi-tool for packaging material with a stretchfilm cutter, carton opener and staple remover.

ERGONOMICALLY
DESIGNED KNIFE FOR
HEAVY USE. SUPPLIED
COMPLETE WITH A
HOLSTER SO THAT
YOUR KNIFE CAN BE
STORED SAFELY, JUST
AT HAND

WE HAVE A RANGE OF
CUTTING TOOLS TO
ASSIST YOU IN CUTTING
MATERIAL EFFICIENTLY
AND SAFELY



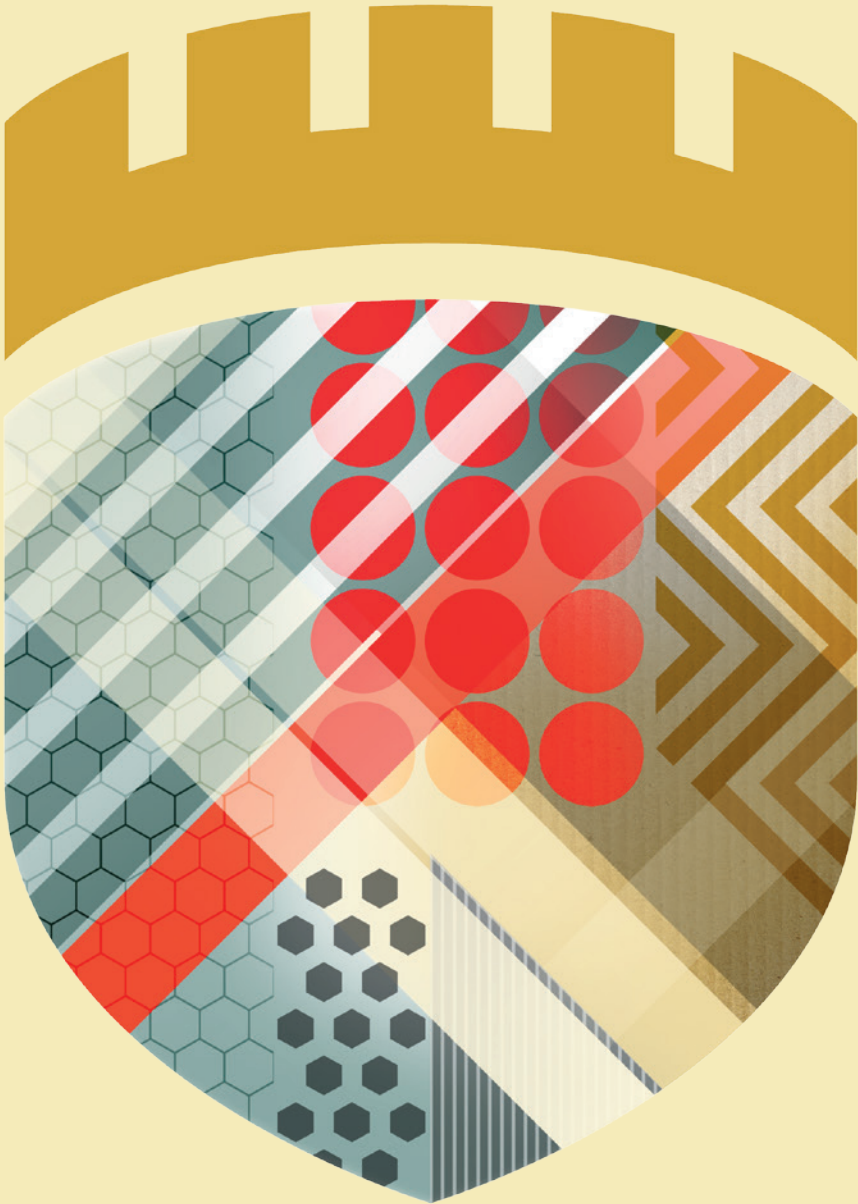


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