

Product Profile

A simple answer to a major production hurdle !



This Partition Slotter is a solution to the box manufacturers who have to supply partitions with their product.

This machine gives you 120 partition plates per minute, duly slotted, as per your requirement. It is a very cost effective solution to the problems being faced by the corrugated box Industry in India. The slot depth can be made to your desired sizes. Two different sets of blade thicknesses are required to be used for 3ply and 5 ply sheets.

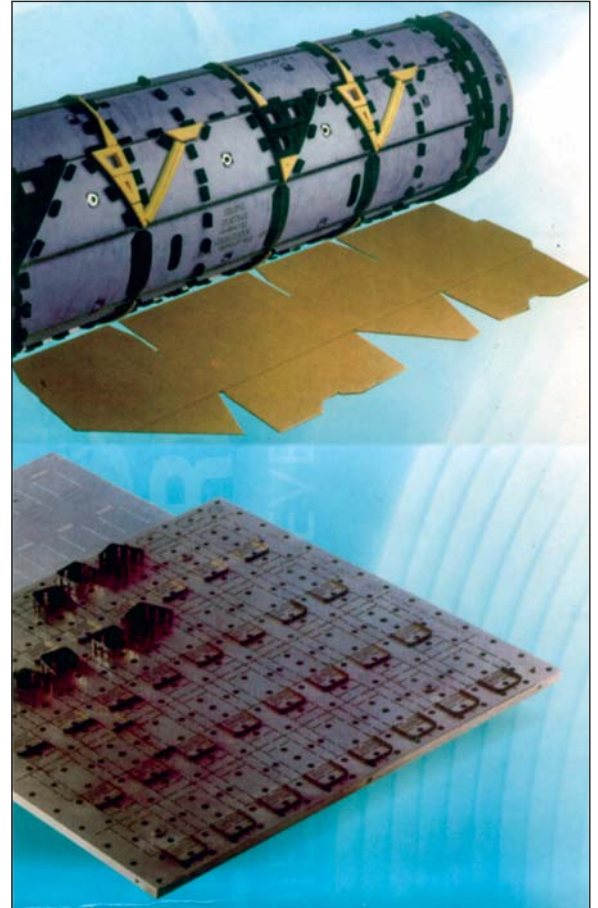
For more information please contact:
info@oneworldinc.in

German technology now in India

Diehard dies Pvt. Ltd. is establishing a full-fledged Die Shop with advanced German Technology. The Company is equipped with high end laser cutting machine and other modern equipment operating on CAD software.

The new technology involves innumerable member of innovative techniques to improve the die quality. The emphasis is on...

- Dimensional accuracy
- High cutting performance
- Long life of the die for more number of impressions.



The Company offers:

- Rotary Dies for corrugated box and E-flute corrugated cartons.
- Flat dies for folding cartons and corrugated boxes
- Stripping Dies-pinless for folding and corrugated cartons
- Counter Dies-pertinex for folding and corrugated cartons.
- Steel counter plates for folding cartons and corrugated cartons
- Label cutting dies.

The production will start from February 2009.

For other details e-mail:
contact@dieharddies.com

How to spot your colour with ease

The pantone formula guide is the international standard for selection and specification of spot Pantone Colours. When a spot colour is required, the guides, (coated and uncoated) provide a collection of 1114 solid Pantone colours in a portable fan deck for easy reference. The choices can be identified by unique name/number for clarity and precision. And provides

greater colour area per swatch. The palette includes ink mixing formulations for each colour and icons that indicate if the colour is achievable in RGB or CMYK. A handy tool for packaging designers, printers and processors!

Contact:

Super Book House, Tel.: 22830446, 22020106

Industrial Inkjet Direct to Carton Printing Technology brought to you by Muktavan Digital Solutions

Muktavan Digital Solutions, a Mumbai-based company, known for customer-centric approach and promotion of State-of-the-art technology, represents Foxjet Trident and Diagraph divisions of ITW, a fortune 200 manufacturing company, as its sole distributor and stockists in India.



FoxJet is a leading manufacturer of industrial inkjet printing systems and inkjet inks, which are sold through a network of quantity distributors in the United States and other places. FoxJet offers a complete line of high resolution case coding systems and printing solutions for alpha numeric printing, bar code printing and logo printing.

Trident having 20+ years experience with industrial inkjet technology for design and manufacture of inkjet print heads, formulate and manufacture of inkjet inks, Customised printing solutions. Trident industrial inkjet printheads are known for high efficiency, reprintability and original configurations.

Diagraph has been serving the marking and coding industry for past 110 years and offers the most comprehensive line of marking. Coding and labeling systems and supplies, including small character continuous ink jet, large character and high resolution ink jet, automated label printer/applicators and label applicators. It implements radio frequency identification (RFID) and has own University dedicated solely to RFID training and application testing for customers.

For more details e-mail:

admin@muktavan.com

New High Quality Board Material from Stora Enso

Stora Enso launches new Aurocard board

Stora Enso's Aurocard board now features enhanced brightness, brightness stability and whiteness. In terms of folding strength, the new Aurocard outperforms all competing folding boxboard products. The board offers an attractive new material option for any type of graphical product, such as book covers, brochures, catalogues and greeting cards.

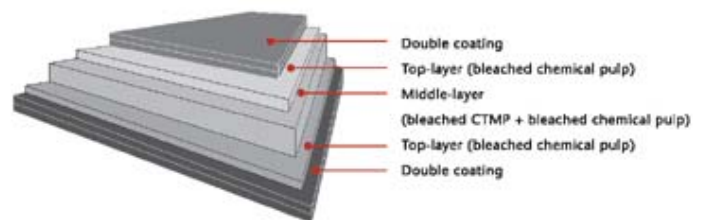
Aurocard is a well-established brand throughout Europe. The new board grade is produced at Stora Enso Imatra Mills, Finland. The central location, high service level and efficient sheeting machinery ensure prompt and reliable board deliveries to the customers throughout Europe.

New raw material basis, improved properties

Aurocard's properties have been significantly improved by changing its raw material basis from groundwood to chemithermomechanical pulp (CTMP). The new Aurocard is characterized by a bright, white and smooth surface and a strong multilayer structure. Thanks to its excellent folding strength, the board works magnificently in folded products, such as folders, catalogues and covers. The new Aurocard is available in grammages from 200 to 350 gsm. Stora Enso Graphical Boards' range also includes Ensocoat and Ensogloss solid bleached sulphate boards and the CTMP-based Performa 2S and Chromocard boards.

Stora Enso launches new Performa Alto board

Stora Enso has launched its new Performa Alto board for high-quality folding cartons. The board offers excellent print results and a bright surface, making it ideal for cosmetics and luxury packaging. Performa Alto is available in grammages from 200 to 350 gsm.



Performa Alto has excellent brightness, brightness stability and whiteness. The smoothness of the reverse side also allows attractive print. Its quality clearly puts it at the top end of CTMP and folding boxboards in the market. This board is being marketed for cosmetics, luxury and other high-end packaging applications. Performa Alto will provide an interesting new material option for our customers.

Stora Enso's Performa CTMP product family now comprises Performa Alto, Performa 2S, Performa White, Performa Cream and Performa Natura brands. Performa CTMP boards combine the benefits of folding boxboard with the mechanical properties and chemical purity of solid bleached sulphate board. The odour and taint-neutral boards are also suitable for packaging chocolate and pharmaceuticals. CTMP (chemithermomechanical pulp) is used in the middle layer of board to achieve superior performance in printing, converting and demanding end uses.

In the folding boxboards category, Stora Enso has started the delivery of new, lower grammages of Tambrite in the market. Tambrite is available in 205-380 gsm and is typically used for food, pharmaceuticals and confectionery packaging. It can also be used in larger box sizes, thanks to its solid structure, high bulk and superior stiffness. "Brand owners today want to reduce their overall consumption of packaging materials to improve both their profitability and image. Tambrite responds to market demands for lower-weight packaging," says the Vice President of Stora Enso.

For further information visit:
www.storaenso.com/graphical

Safer Inks from Pacific Inks

As we pour chemicals down the drain, it is easy to forget the consequences for our environment. The corrugated industry uses millions of tonnes of water based inks, cleaners and adhesives. All of these vital materials may contain industrial grade detergent – one particular type is known as APEO alkylphenolethoxylate. Even the name sounds nasty.



APEO is an excellent active detergent, unfortunately this powerful activity also strips life giving layers from tiny aquatic organisms. Moving up through the aquatic life chain, the effect of APEO is seen wherever waterways carry effluent. Bio treatment does not significantly breakdown APEO.

Finally the solution is to stop releasing APEO into the environment, which means we must stop using APEO based chemicals.

APEO free inks have been available from Pacific Inks for many years and the last vestiges of water based products have been stripped of APEO for the EU market, where the release of APEO is now controlled.

A simple, but very effective solution – box plants simply should stop using APEO based inks and the problem is solved.

Pacific Inks also offers CORROFLEX Ink **Water-based High Strength Inks for Paper & Board – for excellent coverage & vivid colours**

General

CORROFLEX has been developed specifically to provide Flexographic printers with an ink that renders vivid colours, is easy to apply, inexpensive, simple to maintain on the machine, and is environmentally friendly.

Main Application

CORROFLEX INKS are specifically formulated for use with bleached and natural Kraft liners, Recycled papers, Solid fibre board, Bleached and unbleached Kraft papers, wet strength boards and papers, coated papers and Multiwall bags.

Characteristics

CORROFLEX Inks feature, high solids acrylic resin, micro-fine lead free pigment, rapid ink rewetting after press stops and very stable and rapid drying. CORROFLEX is produced fully pigmented, hence it has superior light fastness and density compared with dye based inks.

Resistance Properties

Micro crystalline wax for high rub resistance (wet and dry), Ammonia resistance, water bleed resistance (when fully dried), Deep freeze resistance (when fully dried).

Colour Density and Strength

In most cases CORROFLEX colours are opaque. Best colour density is achieved with clean anilox rollers. Experience indicates that good density results from a laydown of 7-9bcm. Colour strength increases as the machine speed increases.

Finish

The finish will vary according to the substrate selected; in most cases a matt to satin finish is achieved. Viscosity also plays an important role in the ink finish. The lower the viscosity the flatter the finish.

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Antifoaming Agents

Antifoam is not required. Excess use causes mottled print and overprint problems.

Drying

Maximum resistance of the dried print requires 24 hours to develop. This may vary according to the pH and porosity of the substrate.

Storage

CORROFLEX inks have at least 12 months storage stability providing lids are kept on the pails. Any dried material readily re-dissolves. There is no formation of a heavy sediment. This may only occur when the ink has been heavily diluted. The addition of a small quantity of Transaid will rapidly reconstitute over-thinned ink. If viscosity needs to be raised, add Pacific Supergel. Due to its water content CORROFLEX needs to be stored in a cool shaded area. Avoid freezing.

Drying Speed

Drying speed is primarily a function of ink viscosity, the lower the viscosity the more rapid the penetration. Due to high strength/low viscosity relationship, fast dry at good colour strength can be achieved.

Overprinting

CORROFLEX readily overprints to produce secondary colours.

Wash-up

Water is the normal wash up liquid. Dried ink can be removed with metholated spirits or Pacific Ink Remover.

New Accubatch



As a result of continued development, Pacific Inks have recently introduced the Accubatch 2020MA model. This new model will allow small to large sized flexo or screen printers to mix batches of ink in 20 litre pails ready for the print machine. Using Pacific Inks highly innovative and proven

software the 2020MA allows the operator to quickly identify a PMS colour match and have the resulting formula being dispensed within a few minutes. As the first pail is being mixed a second pail can be receiving computer controlled ingredients from the dispenser head. This means the complete ink supply for the job can be mixed quickly and easily.

The 2020MA also features newly developed dispensing heads to prevent post dispense dripping.



The Accubatch 2020ME is the latest development in the range of Pacific Inks Accubatch ink blending systems. This small footprint, large capacity blender will mix single batches up to 200 litres that can be poured to suitable sized pails for transfer to the print machine.

Over 5000 colours are available through the on-board computer controlled formula selector. From a customised menu you can choose the colour you require and blend exactly the amount you need. The Accubatch 2020ME provides dense full colour inks, reduces ink costs and down time, saves water, provides easy recycling of left over inks and is easy to install and fully serviced by Pacific Inks.

Coromat 3000 from Cargill

Improving your corrugated board production process means improving cost efficiency and, of course, profitability.

The new Coromat 3000 is Cargill's state-of-the-art, compact, fully automated corrugating adhesive preparation system. Technologically advanced, flexible and adaptable, Coromat 3000 provides highly efficient viscosity controlled processes which can deliver faster speed, less glue consumption, waste reduction and wet resistance. What's more, the system comes with full after sales support, both on-site and remotely (via modem). No matter what type of glue preparation method or starch products you use, Coromat 3000 will help to keep you one step ahead.



No-Carrier

Contrary to the Stein Hall system and as its 'No-Carrier' name suggests, this adhesive does not have a fully gelatinized carrier portion, but all the starch is slightly swollen. This results in lower water retention capacity and can be an advantage for papers that are difficult to penetrate, since the first water release, together with the relatively high pH, helps in opening the paper.

Having a low (or no) quantity of fully gelatinized starch granules means that 100% of the starch is active at peak viscosity, giving a maximum wet-tack.

These combined features provide good glue-ability, high-bond strength, high machine speeds, shear stability and low waste.

Compared to Stein Hall, No-Carrier adhesives are very sensitive to swelling, allowing for quick gelatinization when heated. The shorter texture helps keep the corrugator cleaner and guarantees optimal glue pick-up by the flute tips, as well as ensuring low adhesive consumption.

Using Cargill specialty starches, the solids content of your No-Carrier adhesive can be significantly increased, enabling a major increase in machine speed.

Stein Hall

The Stein Hall glue preparation system provides simplicity at low cost, along with excellent gluing for many different paper types.

In this adhesive, 10-20% of the total starch content is gelatinized into a high viscosity paste called primary starch. The remainder of the starch (80-90%) stays ungelatinized and is called secondary starch.

Neither the primary nor the secondary starch alone have satisfactory adhesive property for gluing – taken together, however, they form an excellent corrugating adhesive.

Due to the presence of fully gelatinized carrier starch - and the resulting high water retention capacity - Stein Hall glues are particularly recommended for use with very absorbent paper.

Improved performances

Cargill provides a large range of special starches and additives to improve factors in glue performance, such as wet-bond strength and glue penetration.

Starch Booster overview

Over the last few years the look of the box has become more and more important and this has led to higher use of white top, coated liners and the production of more (and smaller) micro flute board.

Mainly due to the lower porosity of such papers, a lower water add-on becomes highly important in order to prevent blistering in subsequent offset and flexo printing.

Moreover, the new generation of wider and faster machines require new adhesive recipes, new starch product concepts and of course, the starch adhesive should deliver the same performance at both low and high machine speeds.

All this implies an adaptation of a new starch and adhesives philosophy.

Cargill, has realized that not only the type of starch can make a difference, but also that the rheological behavior of the adhesive is a key issue.

Starch Booster 41101

How does it work?

It is a new by Cargill to facilitate production of new glue added to the primary water, Starch Booster acts like a thickening agent that when in contact with caustic soda in any starch formulation, transforms the entire batch into a pseudo plastic



fluid, no matter what type of formula and what type of starch, from corn to wheat, native or modified.

Very highly concentrated. The dosage level of Starch Booster is 0.5% on total weight of the starch in the adhesive formula.

Depending on the shear forces that are applied to it, the adhesive's viscosity changes accordingly and has the effect that:

- It shows a 'normal' viscosity when the shear force is low (at rest in storage).
- It shows a very low viscosity when it's shear force is high on the glue-applicator and at 'the contact' with the paper.
- Once in contact with the paper the shear force is completely gone and the viscosity increases instantaneously.
- This is a spectacular saving in adhesive because less adhesive now leaves the glue roll and therefore less water and starch has been transferred to the paper flutes enabling a very fast and excellent bond.

Benefits

- Improved board quality (better flatness, less wash boarding, better printability).
- Ability to use lower paper weights without decreasing either mechanical properties or printing quality of the box.
- Higher average line speed on both the corrugator and converting machines.
- Reduction in corrugator waste (at least 0.5 percent).
- Reduction in starch consumption (up to 30 percent).
- Savings in energy (consumption per square meter of board) due to lower temperatures required.
- Single formulas for single facer and double backer are the norm.
- Simple all native starch formulas only. Corn, wheat, rice, potato, tapioca, no more modified starches or additives needed.
- Less adhesive means less water to be evaporated.
- Less adhesive means faster drying. From the dry end to the flexo immediately!
- Less adhesive means less water and warp issues minimized or eliminated.
- Better edge bonding due to better and complete width adhesive transfer from the roll to the paper.
- Penetration of the adhesive is enhanced resulting in higher PIN and ECT and BCT values.
- Compatible with waterproof resins.
- Easy clean up of the starch from equipment and rolls.

Industrial Noise Reduction adds on to its satisfied customers list



Industrial Noise Reduction Ltd. has just successfully completed the installation of two acoustic enclosures on the single facer and trim fan for West Coast Corrugated Ltd., one of the North West's leading independent corrugated

manufacturers. INR Ltd. worked closely with the West Coast management and engineering team to ensure they achieved the target set of dealing with the noise, heat and fumes within the corrugator bay. The heat build up was a particular problem for West Coast with the then current extract hood and fan arrangement unable to achieve a useful result. This was successfully overcome by ensuring that high ventilation rates were used within the enclosure. Mr. Cliff Graham, West Coast Managing Director, commented: "We were very impressed by the improvements in the noise level and ventilation by the installation of the enclosures. The quality and detail of the design and installation are excellent. Their installation team worked closely with our personnel to ensure the least amount of disruption to our production, understanding our needs to meet our own targets. We will look forward to working with them again on future projects".

INR Ltd. have carried on the lasting tradition established by Noise Reduction Ltd., very well known within the corrugated industry for producing a lasting quality product. They believe in working closely with the client to ensure the best results are achieved. Their strength lies in offering complete package of in-house design and manufacture, to ensure quality, and our own dedicated installation team provides installation to the highest standard.

INSUN – Auto Folder Gluer cum Stitcher + Down Stacker + Counter Ejector + Bundler



This machine is an answer to the bottleneck hitherto being faced by most box manufacturers who have set up high speed production line. After finding solutions to the issues of quality board production and suitable printer slotter, the industry was getting stuck at finishing section of the production process.

This is an ideal solution offered by INSUN, South Korea.

After the board is printed and slotted, this machine then does all the processes required; it does folding or gluing as desired, then counts the bundle size as required by the customer

and then straps the bundles. So all that is left for the box manufacturer is to handle the strapped, bundled boxes !

The machine is designed to glue the boards at the speed of 120 mtrs/mnt or stitch at 80 sheets per minute. Two such units are functional in India already and the third unit is expected to be functional by end February. If you want to handle high volumes at high speeds, this machine is an answer to your requirements.

For more information please contact:
info@oneworldinc.in