

HUDSON'S GOOD

# impressions

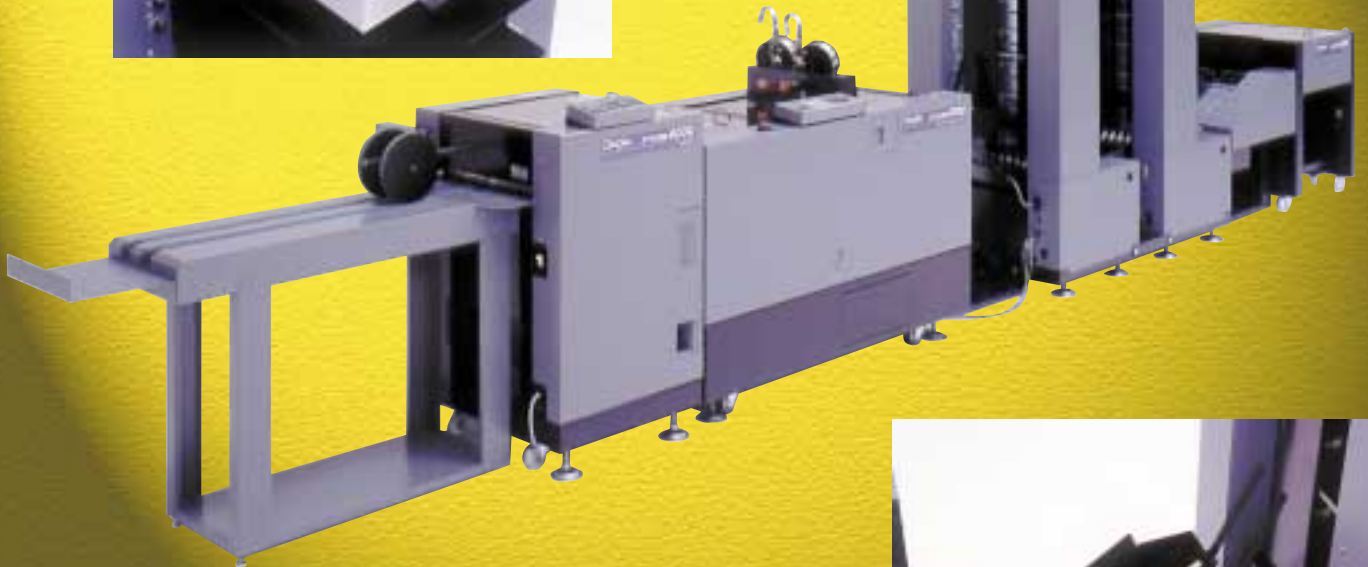


Printing & Graphic Arts Products, Equipment & Hints from A.E.HUDSON

SEPTEMBER 2000

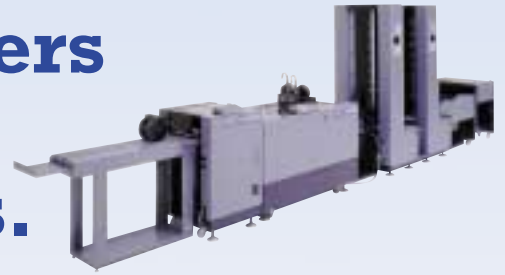
# Duplo<sup>TM</sup>

## Bookletmaker



**Superior Vacuum Feed  
Collating and Dynamic  
Bookletmaking Systems.**

# Duplo's new System 4000 with the unique vacuum feed offers superior collating and bookletmaking systems.



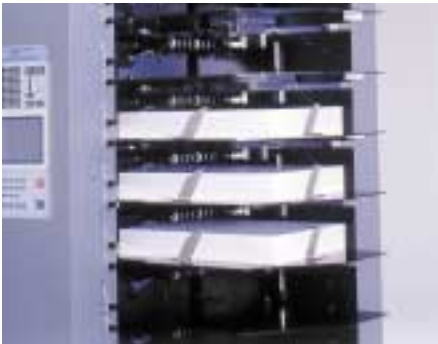
## SPEED

The System 4000 is a modular vertical vacuum feed collating and bookletmaking system, maximising productivity at every stage.

**The vacuum feed on the System 4000 is a unique system, designed to pick up a wide variety of substrates with total accuracy at high speed.**

Air is pumped into the front of the stack in the bin by a powerful and nearly silent fan system. Another fan develops a mini vacuum chamber to lift the top sheet from the stack. This vacuum is created in a series of channels that run in the direction of paper flow. This gives the paper rigidity for better feeding regardless of how light its weight or how loose the grain. The vacuum is spread evenly over a wide area to enable sheets to be moved forward at high speed with great stability.

**The System 4000 will run at an impressive 4200 sets per hour into the bookletmaking system, and 10,000 sets per hour into a straight stacker.**



## MINIMAL DOWNTIME

Air and suction is delivered to each of the bins independently. Whether two bins or sixty are used, the right amounts of air and vacuum are applied. This ensures consistent accuracy, negligible make ready times and soaring productivity.

Changing between different jobs, different paper sizes and different substrates is quick and maintains absolute optimum productivity.

With the System 4000 running at such high speed, reloading plays an essential part in productivity. **With this in mind, the System 4000 has been designed with a 60 mm bin capacity to keep downtime to a minimum by reducing reloading frequency.**

## VERSATILITY

The unique feed system on the System 4000 offers superb versatility; it can handle a wide variety of substrates from 40 gsm up to 300 gsm, from 120 mm x 148 mm up to 350 mm x 500 mm. The system is format indifferent, which means that **an A6 sheet can be fed on the same air-blast and vacuum settings as an A3 sheet, requiring virtually no manual adjustment between jobs.**

## AT YOUR FINGERTIPS

The System 4000 has extensive programming options, allowing the user to gain maximum productivity with any job. For long jobs with few pages, block mode can be used, which allows loading on the run. This sequential feed mechanism ensures the highest speed of collation.

Whether switching between the bookletmaker and straight stacker, or between programming modes, all the features on the System 4000 are achieved at the touch of a screen. The touch screen and a constant LED display keep the operator informed of the running status of the machine at all times.

## AUTOMATING YOUR WORKFLOW

Detectors automatically sense when a particular bin has been loaded with paper and turn on that bin and all the hardware and software that drives it.

**This makes the System 4000 very straightforward to use, so that minimum time is needed for training of operators.**

The System 4000 has the benefits of self-setting misfeed, double feed and jam detectors to make sure output is complete and accurate. The System 4000 uses an advanced infra-red light detection system to provide constant and highly accurate monitoring.

The modular design of the System 4000 means that up to six towers of ten bins each can be combined to create a 60 bin system, allowing users to grow the machines with their specific workflow requirements.



## PURGE TRAY LEFT & RIGHT

The System 4000 has purge trays to the left and right, where any incorrect sets are diverted, maintaining productivity in case the sophisticated detectors find a fault. The incorrect set is purged without stopping the machine and without interrupting production. Waste is reduced, as the sets can be corrected and hand-fed through the finisher or reloaded into the collator tower.



## DYNAMIC HAND-MAKING

If the number of sheets in a document exceeds the number of available bins, this unit allows pre-collated part sets to be combined with the balance of the set as it is fed from the collator. The output rate of the system is automatically controlled by the operator, as the collator is triggered by the operator placing the next part set in the hand-marrying unit. The hand-marry unit is positioned at normal working height for ease of use. The use of the hand-marrying unit does not inhibit the operation of the purge tray.

## COLLATING IN BOTH DIRECTIONS

All towers in the System 4000 can collate to the left, or to the right. For increased flexibility in systems of two towers or more, the towers can be split, to run in both directions at once when applications demand.

**Duplo is leading the way in offering the ultimate in high quality, high volume bookletmaking solutions, providing a profitable system that can truly realise the potential of print. The sole Australian agent for Duplo is A.E. HUDSON Pty Ltd.**

# GTO PACKAGES

for either  
GTO 46 or 52

## Complete Pack



## Bonus Free Package

- 5 Compressible Blankets
- 6 New Mol Dampening Covers
- 5 Stainless Steel Impression Jackets
- 5 Litres Deglazer and Blanket Rejuvenator
- 5 Litres Fast Blanket and Roller Wash
- 3 Kg Spray Powder #1
- 1 Tub Roll Clean Paste

**Plus a FREE**  
Cool-Carry Insulated  
Lunch Bag.



**2 cans of each AEH aerosol listed below.**



**Start-up**  
Assists start-up of printing under 'cold' conditions before a press 'warm up' has been achieved.



**Printers Silicone**  
Forms a film that renders any non-porous surface slippery. Eliminates sticking and repels water and ink.



**Stop Set**  
Anti-skinning ink spray and roller conditioner. Prevents overnight skinning of ink on the press.



**Antistatic Spray**  
Prevents static electricity on non-conductive surfaces. Useful around areas such as the feed board and delivery tapes.



**Ink Remover**  
Softens up old, dried ink and dirt from presses, plates, type and number boxes for easy removal.



**Engineers Yelder**  
Prevents rust and corrosion, displaces moisture and lubricates. Provides assistance in loosening 'frozen' metal parts.

**Total Package Above**  
inc 12 Bonus Aerosols and  
Bonus Cooler Bag

**Only**  
**\$580\***  
plus GST

**Total Value \$770**  
**SAVE \$190**  
on normal list prices.

## Economy Pack



## Bonus Free Package

- 5 Compressible Blankets
- 3 New Mol Covers
- 3 Impression Jackets
- 5 Litres Deglazer
- 1 Tub Roll Clean Paste

**Plus a FREE**  
Cool-Carry Insulated  
Lunch Bag.



**1 can of each AEH aerosol listed above.**

**Total Package Above**  
inc 6 Bonus Aerosols and  
Bonus Cooler Bag

**Only**  
**\$390\***  
plus GST

**Total Value \$519**  
**SAVE \$129**  
on normal list prices.

## Mini Pack



## Bonus Free Package

- 5 Compressible Blankets
- 3 New Mol Covers
- 1 Tub Roll Clean Paste

**Plus a FREE**  
Cool-Carry Insulated  
Lunch Bag.



**1 can of each AEH aerosol listed above.**

**Total Package Above**  
inc 6 Bonus Aerosols and  
Bonus Cooler Bag

**Only**  
**\$290\***  
plus GST

**Total Value \$388**  
**SAVE \$98**  
on normal list prices.

**\*Please Specify When Ordering Whether GTO 46 or GTO 52.**

# TECH UPDATE

## Fountain Solution and pH

When the fountain solution is the wrong type for the ink and/or plate being printed, or is at the wrong pH level, it will not dissipate into the print on the sheet. The press operator is then in trouble.

**Possibly the six most common problems faced by the printer can be fountain water related:**

- **Ink emulsification**
- **Plate breakdown**
- **Roller stripping**
- **Roller glazing**
- **Poor ink drying**
- **Copy fading**



**These press problems can also result in:**

- **Toning**
- **Chalking**
- **Scumming**
- **Wasted sheets**

The interaction of ink and water is vital to successful and profitable print production. Using the right fountain solution at the right pH level makes the battle considerably easier.

Van Son All Purpose Fountain Solution\* allows operators to reduce the water flow yet the plates remain wetter. This special feature means the optimum ink/water balance is reached more quickly and there is faster evaporation with less water penetration of the ink. The most common problems associated with fountain water on the press are therefore substantially curtailed.

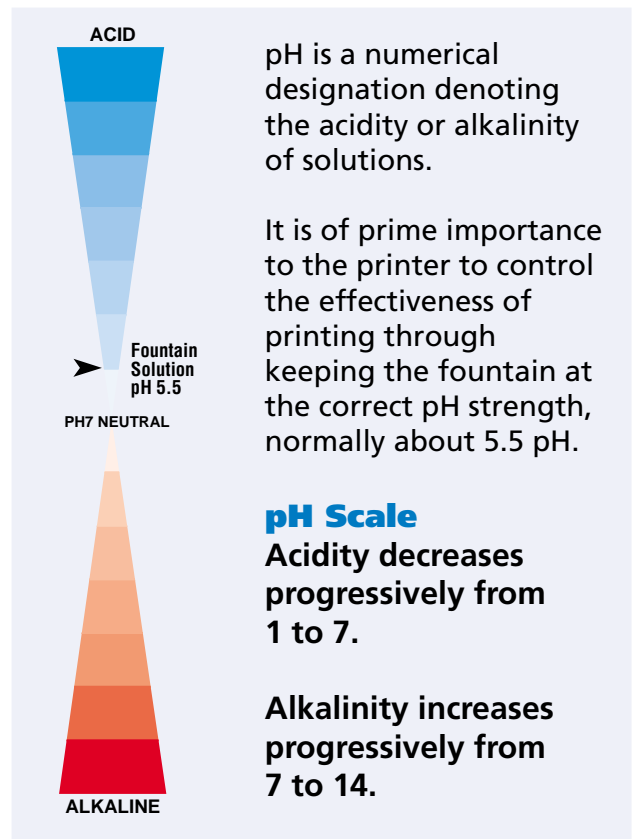
\* Not recommended for "Black" type plates

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## Take The Guesswork Out Of Fountain Solution Control

Because acidity and alkalinity vary from place to place, it is advisable to check the pH of your fountain solution each time a new batch is mixed. For best printing results maintain a pH of 5.0 to 5.5.

Remember if you want the pH to go up, mix fountain solution weaker using more water. To make the pH go down, make the fountain solution stronger by adding more fountain concentrate. The pH of tap water can vary considerably, depending on the local water supply. If the plain water is too acid, mix the recommended ratio of water/fountain concentrate and add 8-10 ml of Van Son Water Drying Fountain Stimulator V-2153 to each litre of mixed fountain solution. This should buffer the pH up to the 5.0 to 5.5 range.



**One up or one down on the pH scale increases or decreases the alkalinity or acidity BY TEN TIMES.**



Quality Endorsed Company

AS9002 Lic. 2046 Standards Australia Sydney & Melbourne



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