

**Plant list**  
August 2020

## DATA PROCESSING TOOLS

SYSTEM	Inspire Suite for data driven composition SQL server 2010 .Net Framework 4 CACI Anabase – name and address processing Data Health Check Cygnus
SUPPRESSION FILES	Gone Away Suppression File MPS The Bereavement Register PAF Mortascreen NCOA

## PRE-MEDIA WORKFLOW

PRIMARY WORKFLOW	<b>Kodak Prinergy, Kodak Insite, Kodak Magnus 800 Quantum S</b>
PROOFING	2 x Epson SureColor P9000 with built in Spectrophotometer driven by EFI Fiery XF 1 x ImpoProofer 2 x Xrite i1 Spectrophotometer 1 x Xrite IO Table
WORK STATIONS	3 x Mac Pro 1 x iMac 27" 1 x Mac Mini Server
SOFTWARE	Quark 2016 Adobe CC (Indesign, Illustrator, Photoshop and Acrobat) Enfocus Pitstop Professional 13 Kodak Preps v7

## IN-LINE PRINTING

### IN-LINE LITHOGRAPHIC WEB PRINTING

<b>PRESSES</b>	<b>2 x Zirkon 24pp web</b>
Maximum web width	965mm
Minimum web width	330mm
Cut off	904mm
Maximum stock weight	200gsm
Minimum stock weight	70gsm
Colours	5 total, either 5/5 or 4/4 plus sealer
Drying	Heat set (115 - 150°C)

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## IN-LINE PRINTING

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### IN-LINE PERSONALISATION

SYSTEMS	Scitex 6240 variable imaging systems
Heads	24 x 108mm
Speed	1000ft per minute (press speed)
Simplex single pass	Maximum 22 heads (1296mm in total)
Duplex single pass	Press 2 10 heads top side and 12 heads bottom side Press 3 12 heads top side and 7 heads bottom side
Resolution	240 dpi
Fonts	Bitstream type library
Ink	Water based
Colours (each head independant)	Black, blue, red, green Any PMS colours can be matched
Drying	Heraeus Carbon Infrared (CIR)

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### IN-LINE FINISHING

Systems	2 x Inline ribbon/plow-fold systems
Stock weight (recommended)	80 - 200gsm
Plow fold towers	Maximum of 7 4 Head creasing unit
Ribbon slit and merge	Maximum 4 ribbons (2x plow-fold)
Perforations	Line, cross, pattern
Die cutting	Line, pattern, aperture, shapes, profile, kiss cut
Gluing	Line, pattern, spot, impact
Shear slitter	Single and double cut
Window Patching	Max - 150mm (w) Max - 178mm (cut off) Min - 36mm (cut off) 27 - 75 micron (gauge) film thickness

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### STOCK, INK AND FINISHES

Paper stock (70 - 200gsm)	Uncoated, matt coated, silk, gloss
Inks (heat-set)	CMYK, specials, metallic, coin reactive, heat reactive, watermark, carbon, fluorescent
Varnishes (heat-set)	Sealer, press gloss
Finishes (spot)	UV, gloss, fragrance, Aqueous coating
Glues (water based, hot melt, impact)	Remoist, peelable, label
Backgrounds	Security marks/devices can be incorporated into our products

## IN-LINE PRINTING

### OPTIMUM PRODUCT SIZES

Quantity and sizes	Number up	No bleed	Common bleed	Full bleed
	2 up	452mm	444mm	439mm
	3 up	301mm	296mm	289mm
	4 up	226mm	222mm	214mm
	5 up	180mm	177mm	169mm
	6 up	150mm	148mm	139mm
	7 up	129mm	127mm	118mm
	8 up	113mm	111mm	102mm

## LASER AND DIGITAL PRINT

### SHEET FED DIGITAL PRINTING

Sheets fed presses	1 x Konica Bizhub C1100 2 x Konica Minolta 1052 mono device All machines have tray pulling capability 2 X Ricoh 9110 digital presses
System capability	Fully personalised, variable, four colour, duplex print+ mono
Substrate specifications	140 mm x 182 mm to 330 mm x 487 mm. 60gsm to 350gsm 210 mm x 297mm to 330mm x 700 mm upto 450gsm.
Resolution	600 dpi & 1200 dpi

### REEL FED DIGITAL PRINTING

Presses	1 x HP T490 HD High Speed Digital Inkjet Press 2 x HP T240 High Speed Digital Inkjet Press
System capability	Fully personalised, variable, four colour and mono, duplex
Maximum web width	1067 mm
Speed	1000ft per minute (72,000 A4's per hour)
Media Range	90 to 300 gsm
Resolution	1200dpi (with HD capability)
Finishing	Hunkeler CS6 cutters, six plate MBO folders, Reel to reel Sheer Slitter (2 reels) Vits offline finishing
Dynamic perforation	1 x Hunkeler system 1 x Tecna system 1 x EMT system

### OFF-LINE FINISHING

Systems	2 xHunkeler offline finishing systems
Processes	Cross-fold trim
EHRET Offline System	With plow folds, buckle folds & Palamides auto stacker

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## ENCLOSING AND FINISHING

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### ENVELOPE ENCLOSING

<b>Enclosing lines</b>	<b>6 x Sitma SM15</b> All file based 4 with read and print technology 3 reel fed with multi page capacity 2 x Neopost file based <b>2 x BOWE FUSION CROSS HIGH-SPEED ENCLOSING LINES</b> Both file based Both with Reel feed and Sheet feed input channels Selective inserts from 6 hoppers C5, C4, DL windowed products Up to 22,000 packs per hour per machine.
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### FINISHING

Finishing Equipment	1 x Morgana Docufold Pro Folder - 18,000 per hour 1 x Morgana Major Folder - 18,000 per hour 1 x EBA Guillotine 1 x Nagel Foldnak Compact Digital Booklet Maker - Min Format: 105 x 210mm, Max Format: 325 x 450mm, Max Thickness: 25 Sheets 80gsm, Stapling heads: Up to four.
Ancilliary	1 x Maticard T10 Card Personalisation
Duplo Digital System 5000 PRO Booklet Maker	2 x Duplo Digital System 5000 PRO Booklet Maker 400 sheets a minute feed 3,600 booklets per hour Combines digital contents with cover Four finishing styles Optical mark recognition Automatic set up of bookletmaker 25 sheets per booklet max @ 90gsm (Heavier stocks will carry less sheets) Maximum sheet size 250 x 350 mm Minimum sheet size 75 x 120mm Complete production record for security
MBO T800 Buckle Folder	6 folding plates GSM: 90-350 Sheet Width: 140mm-720mm Products: Roll fold, concertina fold, double parallel and cross folds

## ENCLOSING AND FINISHING

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### ENVELOPE ENCLOSING

#### Paper Wrapping

#### **2 x CMC JWR30 paperwrap Machines**

Reel fed single of multi page letters  
Tip on card feeder with mono matching personalisation  
Six selective feeders  
Reel fed outer wrap with window patcher, flap profiling and mono matching personalisation  
Multiple hot melt glue systems to offer permanent and/or peelable sealing  
File based processing on all applications

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### CARD TIPPING

#### **1 x Sitma Pick and Place**

Minimum Size: 50 x 80mm  
Maximum Size: 50 x 130mm  
Minimum Thickness: 0.4mm  
Maximum Thickness: 2mm  
Items: Credit Cards, Sachets (both subject to sight)  
Personalisation: Not possible to print or match

#### **2 x CMC Card Affixers and Mono Perso**

Minimum Size: 50 x 80mm  
Maximum Size: 180 x 90mm  
Minimum Thickness: 0.2mm  
Maximum Thickness: 1mm  
Personalisation: Can print black only to face and match back to letter (Letter must be A4 folded to either DL or C5 direct from a reel)  
Minimum Font Size: 10pt  
Print Colour: Black only  
Method: Simplex only to visible face of card  
2d Barcode: Must print on front of card to match back to letter (standard GI content)

#### **1 x Kirk Rudy**

1 x inline card tipping on device

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**DATA PROCESSING   FINISHING**

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**DATA RECEIPT**

Data can be received via SFTP,  
We can also accept PGP  
Encrypted files if required

**SIMPLE PROCESSING**

Mailsort  
GAS  
Bereavement Register  
NCOA Suppress  
NCOA Update  
Experian Mortality  
Suppressions  
Experian Absolute Movers  
Disconnect  
Baby MPS  
MPS  
PAF

**DATABASE  
MANAGEMENT**

Database development  
Data Capture (Gone away  
suppressions, Statistical  
analysis)  
Profiling (RFV, Mosaic LTV)

**Calendar punching/binding  
machine**

NB. Please ask for any technical  
help with unusual formats  
Finishing  
Polywrapping

**DIGITAL COLOUR**

**FINISHING**

**Xerox Nervera x1**

Black mono - SRA3

**Xerox Versants 3100 x2**

Colour - SRA3

**Xerox 2100 x1**

Colour - SRA3

**HPT240**

Web width 550mm

Print width 520mm

Maximum paper weight

235gsm

Maximum image area 3mm less than sheet size. Maximum trim size is 6mm less to allow for 3mm bleed all around.

**REPRO FACILITIES**

Quark 8.12

Adobe Creative Cloud & Pitstop

GMC Inspire Designer

**Schneider Senator 115cm**

**Guillotine**

Programmable Guillotine incorporating automatic jogging table and stacker

**Herzog Heymann Special**

Hot melt peelable and water based permanent glue applications time cut, time perf applications

2 x Stahl TH56 Folders

4 plate x 3 units with Palamides paper banding units Gate fold facility

1 x MBO T123 Folder

4 plate x 3 units with Palamides paper banding units Gate fold facility

**Hunkeler CS6-11**

Reel to Sheet Cross Cut Incorporating MBO B26E – 66 4 plate folder and Palamides paper banding unit

**Herzog Heymann Pick and Place machine**

Features hot glue system, page opening and plough fold close function. Capable of attaching cards, coins, CDs, sachets etc. Lake Image camera match system enabling personalised cards to be matched to documents K150 Domino inkjet system inkjet 2 inch label and used in conjunction with the Lake camera system Read, print and verify.

**Sure feed product attachment System**

**ALritma Labelling Machine**

For label application on to various Substrates

**Video Jet personalisation**

2 inch inkjet printing can print onto labels as attached

**Duplo Digital System 445**

**Bookletmaker**

Crease, stitch, fold and trim Duplo DSF-5000/DSF-5000 CF with DKT200 3 knife trimmer High speed with control for finishing booklets from digital print. Capable of finishing up to 4,000 booklets per hour The DKT-200 provides a scaleable and modular solution to the requirements of three knife trimming for saddle stitched and folded books.

**HH M7 Special**

The HH Special (Herzog Heyman M7 Special) has now been superseded by the next generation of M7 Equipment. Everything that we could do before still stands but there are a few additional upgrades that should be pointed out. Below is a list of the Individual Units and the Machine's capabilities.

MBO SAR 82 Feeder Vacuum Sidelay Belt

382 Cutting Unit

The Units are a Maximum 72cm wide

Score and/or Perf in-Line in a Bi-Directional Format, Horizontal and Vertical. Prior to Gluing/ Folding. Time Cut or Time Perf in a Bi-Directional Format, Horizontal and Vertical. Time Glue: Hot Melt Peelable - Cold Set Peelable - Cold Set Permanent.

M7 Folding Units

The Units are a Maximum 72cm wide

Electronic Variable Height

M7 - 2 Plate

M7 - 4 Plate

M7 - 6 Plate

Castellated - Variable Gap Rollers (for Gluing)

Time Cut or Time Perf in a Bi-Directional Format, Horizontal

and Vertical.

Time Glue: Hot Melt Peelable - Cold Set Peelable - Cold Set Permanent.

Gate Fold Plate for any of the above M7 Units Glu-Bind Contollers on all M7 Units

091 Vacuum Table incorporating 381 Alignment Table

Page Open.

Plough Fold Left and Right.

Edge Trim

Glue - Hot Melt or Cold Set Glu-Bind Contoller

With the available Units we are able to produce:

4pp Foreedge Glue - Horseshoe Glue to Royal Mail Specifications Either Dots or Line

6pp Foreedge Glue - Horseshoe Glue to Royal Mail Specifications Either Dots or Line

Larger Paginated Products can also be Glued to Royal Mail Specifications.

We can also Score and Fold an Offset 8pp Gatefold and Edge Trim to leave a 2pp within a 6pp with no wrinkling of the spine - the product now doesn't go through the Fold Unit Rollers to edge trim.

**Profold ProTab II**

Applies an adhesive back tab to seal an open edge product.



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**DIRECT MAIL**

**CUT SHEET**

**2 x Xerox Nuvera 144 EA**

Note: Up to A3  
80gsm – 220gsm  
simplex & duplex

**CONTINUOUS**

**4 x Océ VarioStream 7650**

Two with duplex systems

**Océ PageStream 440 –**

dedicated proofer

Note: Up to 457mm width

80gsm – 170gsm

simplex & duplex (single pass)

All continuous lasers have

Hunkeler pre & post paper

handling equipment Reel to

Sheet or Reel to Reel.

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**ENCLOSING**

**PAPER ENCLOSING**

**CMC 9000** - Hi speed encloser.

Fully intelligent Reel fed or

Sheet fed. 6 x rotary feeders,

2 x hi capacity insert belts, 2x

CMC 9000, Hunkeler UW6

unwind unit, Technau cutting

unit, for split & merge, 4 plate

buckle folder for folding to A5

or DL in line, will collate up to 8

sheets, with selective insertion

and matching capability.

## TECHNICAL GUIDE

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Keep this handy technical guide somewhere safe as it not only contains details of all our plant and equipment but also detailed information about our extensive web and inline folding facilities.

**MACHINERY** A comprehensive Plant List showing all of our pre-press, print and finishing equipment specifications.

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**FINISHING** Detailed information including material weights for folding directly from the web presses and useful information about cut-off and pages sizes.

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**FORMATS** As a guide to format options we've included some examples of the many 'Press Finished Products' we are capable of producing with our sophisticated web and inline finishing systems.

This guide will give some indication of what we can achieve but for more information and help with your specific requirements, call us on: 01536 483 401 or email: [info@eclipsecolour.com](mailto:info@eclipsecolour.com)

## PRINT

### PRESS

#### HEIDELBERG SPEEDMASTER

XL106 - 10 colour Press with cutstar  
max sheet size: 750 x 1060mm max print area:  
740 x 1050mm min paper weight 80gsm max  
paper weight 350gsm  
max speed (iph) 18,000

##### Special features

8 x Kodak Prosper S-Series Ink Jet Heads  
(Personalisation) across full reel width.  
Reels or sheet production  
12-unit perfect 6/6 or combination Straight 12  
colours 1 pass  
Ink line  
Double sided spray capabilities Autoplate  
Auto-register  
cpc 2000  
cip3  
Image control  
Spectrophotometer  
CITO - RSP inline finishing system -perforating,  
cutting and creasing

#### M600 WEB-OFFSET

16pp 6 unit  
cut off/reel width 630mm/965mm max print area  
618 x 954mm  
min paper weight 54g/m<sup>2</sup>  
max paper weight folded 130g/m<sup>2</sup> max paper  
weight sheeted  
200g/m<sup>2</sup>  
max speed (iph) 44,000  
Special features  
GMI closed loop colour control System cip3  
prepress interface cpc32  
JF 44 Folder tabloid/magazine Digest/delta  
VITS Sheeter Rotocut S  
Cutting accuracy +/-0.4mm  
Re-moist glue unit  
Pattern perf unit  
Autoplate system  
Automatic Register System  
Spine glue  
Rotary trim  
Scheffer Inline Finishing

- Rotary Cutting
- Remoist Pattern Gluer
- 1 in 4 out Angle Bar/Compensator Assembly
- Wet Flap Pattern Gluer
- Spine Gluing
- Perforations
- Multiple Plow Stations
- Shear Slitting

#### HEIDELBERG SPEEDMASTER

XL106 - 10 colour Press with cutstar  
max sheet size: 750 x 1060mm max print area:  
740 x 1050mm min paper weight 80gsm  
max paper weight 350gsm  
max speed (iph) 15,000

##### Special features

Reels or sheet production  
10-unit perfect 5/5 or combination Straight 10  
colours 1 pass  
Cito perf unit  
Ink star  
Double sided spray capabilities Autoplate  
advanced  
Inpress control - colour and register control  
Prinect press centre  
Prinect press room manager CIP4

#### M600 WEB-OFFSET

16pp 5 unit  
cut off/reel width 625mm/965mm max print area  
618 x 954mm min paper weight 54g/m<sup>2</sup>  
max paper weight folded 130g/m<sup>2</sup> max speed  
(iph) 60,000  
Special features  
GMI closed loop colour control System cip3  
prepress interface  
JF 60 Folder tabloid/magazine Digest/delta  
VITS Sheeter Rotocut ST  
Automatic register system  
Autoplate system  
Spine glue  
Rotary trim

### PRE-PRESS

#### HARDWARE

iMac x 4  
PressTune - Colour  
management

#### CTP

2 x Avalon N8-90S plate  
setters (48 plates per hour)  
2 x Expert Pallet loaders each  
with one additional cassette.  
Single internal punch in each  
engine (Bacher 780)  
NELA SF-Bender  
Automated inline Bending  
Machine  
The fully automated NELA SF-  
Bender aligns and bends the  
following plate format(s):  
> Heidelberg XL106:  
1055 x 811 mm  
Pre-Positioning with 2  
positioning pins and sensor.

#### WORKFLOW

Apogee Workflow

#### PROOFING

Epson SC 9000 with built in  
Spectrophotometer

### SERVER

#### APOGEE WORKFLOW SYSTEMS SOLUTION

#### SECONDARY / FAILSAFE SERVER

1 premium workflow server

#### WEB PORTAL SERVER

Apogee Web Approval Pro

## PRINT

### FINISHING

#### GUILLOTINE X 2

Polar fully automatic guillotine Polar high speed programmatic guillotine and flow line with downloading, sheet count and weighing facilities

#### RAM BUNDLING

Increases loading speed and improves efficiency

#### PALAMIDES PAPER BANDING

#### FOLDING X 6

4 stahlfolder machines  
+ cold melt gluing system  
2 MBO folding machines

#### STITCHING X 3

Müller Martini prima 8 station  
+ cover feeder  
Heidelberg ST500 5 station  
+ cover feeder  
Heidelberg ST500 4 Station  
+ cover feeder

### WEB FOLDING

The following products can be produced in-line using the JF44/60 folder attached to our 16pp web presses. Leaflets, flyers, application forms etc. can be produced using the sheeter option and folding off line or via our Scheffer unit inline.

#### M600 WEB-OFFSET 16PP 6 UNIT

cut off/reel width	630 x 965mm
max print area	618 x 954mm
min paper weight	54g/m <sup>2</sup>
max paper weight	130g/m <sup>2</sup> (folder) 200g/m <sup>2</sup> (sheeter)
max speed (iph)	44,000 (subject to product)

#### M600 WEB-OFFSET 16PP 5 UNIT

cut off/reel width	625 x 965mm
max print area	618 x 954mm
min paper weight	54g/m <sup>2</sup>
max paper weight	130g/m <sup>2</sup> (folder)
max speed (iph)	60,000 (subject to product)

#### SPECIAL FEATURES

- F 44 Folder - tabloid/magazine & digest/delta
- VITS Sheeter Rotocut S - cutting accuracy ±0.4mm
- Re-moist glue unit
- Pattern perf unit
- Autoplate system
- Automatic register system
- Spine glue rotary trim
- GMI closed loop colour control system
- CIP3 prepress interface CPC32

#### SPECIAL FEATURES

- F 60 Folder - tabloid/magazine & digest/delta
- Autoplate system
- Spine glue rotary trim
- GMI closed loop colour control system
- CIP3 prepress interface CPC32

### INLINE FINISHING

To compliment the M600 Web Press, we have a full Scheffer Inline Finishing System, both enhancing the product range and minimising current finishing operations.

Many standard products will be finished without the conventional trimming and folding operations, saving valuable time on critical schedules.

#### What is Inline Finishing?

Our Inline Finishing System creates Press Finished Products and allows Eclipse to be more price competitive. It also enables us to reduce turnaround times by offering a product that is finished in one operation.

**Press Finished Products can save you time and money.**

### PRODUCT RANGE FROM ECLIPSE

- Trimmed 2pp and folded 4pp
- Roll folds – 6, 8, 10, 12 page products
- Gate fold products
- Spine glued booklets – 8, 10, 12, 16 page booklets
- Stepped edge products
- Multi ribbon / folded products
- Double thickness products / reply cards
- Spot glued products
- Pattern perforated products
- Incorporated envelopes
- Bangtails
- Application forms
- Greater product size variations (Subject to technical limitations)

In addition to all of these products, the following additional processes can be applied at the same time to further enhance the product, depending on the product's end uses.

- Remoist pattern gluing
- Pattern perforating
- Running perforations
- Impact gluing
- Re-peelable gluing

- Remoist Pattern Gluer
- Pattern Perforator
- 1 in 4 out Angle Bar/Compensator Assembly
- Wet Flap Pattern Gluer
- Spine Gluing
- Perforations
- Multiple Plow Stations
- Shear Slitting
- Rotary Cutting

In addition to offering a wider range of products the Inline Finishing System allows us to reduce turnaround times by offering a product that is finished in one operation, thereby enabling us to reduce your costs.

### EQUIPMENT SPECIFICATION

#### Remoist Gluer:

Option for adding Pattern Remoist application for envelopes, reply pieces and stamps etc.

#### Pattern Perforator:

Offers a solution for producing perforated items such as stamps and coupons etc. Perforation both in web direction and across the web in a variety of custom shapes and sizes.

#### One in Four out Angle Bar Unit:

One web in on entry with option to slit web in up to four ribbons. Options possible are multi leaved products, nested products and stepped edged products. Multiple stream products possible, therefore increasing number of products possible out of one press revolution.

#### Wet Flap Gluer:

Option for adding Pattern Gluing, Spot Gluing for products incorporating Return Envelopes, Double Thickness Reply Cards etc.

#### Plow Towers:

Plow fold web and ribbons using up to five plow stations to produce more sophisticated product formats and size options than conventional press folder. Plow towers can also be equipped for slitting, inline perforating, line gluing and intermittent gluing.

#### Shear Slitting:

Option for precise and neat trimming for products such as Spine Glued booklets and multi ribbon work etc.

#### Rotary Cutter:

Designed to accurately cut and deliver fully bleed trimmed or non bleed trimmed products from a continuous web of printed paper. Products can be cut into 2, 3, 4, 5 or 6 around out of a press cut-off length of 630mm. Various sizes for each option possible. Copies delivered in either one or two streams depending on the product design.

#### Stacker:

Copies laser counted and batched to suit. Finished copies boxed or bulk packed onto pallets. Versions can be intermixed on certain formats for marketing / testing purposes.

**GO INSPIRE.**  
Solutions

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