

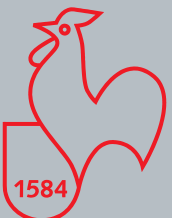
Hahnemühle

FINEART

# The Art of Expression

The Hahnemühle Digital FineArt Collection:  
Inkjet papers for creative photography, original digital art  
and reproduction of paintings and photos

**Price list 2006**  
UK GBP (£)





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## Digital Fine Art

The Hahnemühle paper mill has been producing quality mould-made artists papers for over 420 years. Since its founding in 1584 they have developed experience and a tradition of excellence in art materials that have now been brought to the digital age. The Hahnemühle Digital FineArt Collection offers a unique selection of stunning papers with a variety of surfaces and the impressive touch and feel of genuine mould-made and cotton papers. Artists and photographers working with the digital medium can choose between the smooth, soft papers of the PhotoLine range for high quality FineArt prints as well as the more heavily textured ArtLine papers. The papers of the Hahnemühle Digital FineArt Collection comply with the most stringent conservational requirements and are produced in strict accordance with ISO Standard 9706, providing reproductions and images with excellent colour density and crispness. This consistent quality excellence has made us the global market leader in developing FineArt inkjet papers. In collaboration with leading inkjet printer manufacturers we continuously develop and test our papers.

### PHOTO LINE Freedom, Consistency and Colour Accuracy

Hahnemühle have developed the Photo line range to allow the photographer the same consistency when producing their creative work, with accurate colour and the high impact expected from today's digital inkjet printer, on a true archival art paper. Unlike standard photographic media, we unite photography with the artistry of classical natural papers to provide creative freedom for photographers and digital artists alike.

The Photo Line has been specifically designed to address the growing need of the Photographic community and are natural grade, acid free papers, precision coated for Photographic inkjet applications.

Each paper has been developed to enhance the work of a wide

variety of artistic styles. Black and white, colour, portraits, landscape, abstract, computer generated and restoration work can be printed with dramatic results. For these various applications we produce a range of papers from 188 - 460gsm\* in single side and dual side coated formats, and a 1.2mm art board.

The Hahnemühle collection offers materials that produce classic images and timeless beauty with each photograph. The Photo Line products are readily available in cut sheet and roll format for wide format and desktop printing. Textures range from smooth to matt in white, bright white and natural white colour bases.

### ART LINE The Image of Beauty

The Art line collection offers the artist an avenue to express creativity and beauty in the output by providing a wide range of papers, so you can match the artwork to the paper texture and weight.

The Art line has been developed from our line of standard archive grade, acid free, natural line art papers that have been the speciality of the Hahnemühle paper mill for over 400 years. The original art papers have been coated to provide consistent colour reproduction and gamut while maintaining the look and feel that artists expect from our papers.

Each material has been specifically developed to produce or reproduce the work, highlighting the creativity the artist originally envisioned. Watercolour, etchings, pastel, acrylic and a wide variety of

other traditional techniques can be accurately reproduced as giclées, limited edition prints, restorations, display copies or original output. We manufacture a range of papers from 190 - 340gsm - single side coated. Textures range from rough to smooth in white and natural white colours. Cotton canvas and archive grade boards are available, to add further choice to the wide variety of applications that inkjet printing provides.

The Hahnemühle collection offers materials that produce classic images and timeless beauty with each print. The Art Line is available for wide format printing in roll sizes of 17 - 50" and cut sheet sizes up to A2.



**Hahnemühle Fine Art recently won the highly acclaimed TIPA award for the Digital Fine Art collection in the 'Best Fine Art Inkjet Photo Paper' category.**

**For details see: [www.tipa.com](http://www.tipa.com) or our new website: [www.hahnemuehle.com](http://www.hahnemuehle.com)**



\* The Hahnemühle papers achieve excellent results with both dye and pigmented base inks on a wide variety of printers. Papers with grammages above 300 gsm are not suitable for all desktop printers.

## PHOTO RAG® 188 GSM

### 100% RAG CONTENT

#### Product Description

A smooth white 100% rag based paper specifically designed to meet the need of photographers or artists using digital photographic output. The paper provides a smooth calendered surface, which picks up every detail captured in the photograph.

Product No	format	size/sheets	RRP £ (exc VAT)
10640252*	roll	44"x12m	156.00
10640251*	roll	36"x12m	127.00
10640250*	roll	24"x12m	89.00
10640239**	roll	13"x12m	54.00
10640243	box	A2/50	151.00
10640246	box	A3+/50	118.00
10640241	box	A3/50	77.00
10640240	box	A4/50	38.00
10640341	box	A3/20	40.00
10640340	box	A4/20	20.00

\* 2 inch core \*\* only available in packs of 2 rolls



## PHOTO RAG DUO® 196 GSM

### 100% RAG CONTENT

#### Product Description

The duo paper has all the same qualities as the standard photo Rag. The double-sided coating makes it ideal for applications such as portfolios, presentation displays and exhibition graphics.

Product No	format	size/sheets	RRP £ (exc VAT)
10640292	box	A2/20	83.00
10640296	box	A3+/20	65.00
10640291	box	A3/20	43.00
10640290	box	A4/20	21.00



## PHOTO RAG® 308 GSM

### 100% RAG CONTENT

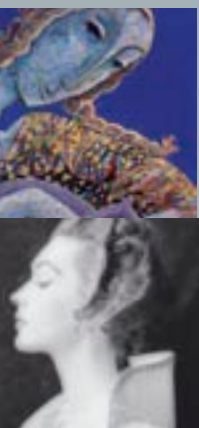
#### Product Description

A smooth white 100% rag based paper specifically designed to meet the need of photographers or artists using digital photographic output. The 308gsm Photo Rag is one of our most popular papers and often considered to be the industry standard that photographers base professional photographic output on.

*"...this is the gold standard against which other papers are compared. At Professional Image Maker we always put a couple of sheets through any new printer we are reviewing - it provides us with a baseline"*

Mike McNamee - editor  
"Professional Image Maker"  
magazine

Product No	format	size/sheets	RRP £ (exc VAT)
13640275	roll	47"x20m	395.00
13640274	roll	44"x20m	370.00
13640310	roll	36"x20m	300.00
13640309	roll	24"x20m	235.00
10643272	roll	44"x12m	223.00
10643271	roll	36"x12m	181.00
10643270	roll	24"x12m	141.00
10643273	roll	17"x12m	104.00
10640268	sheets	889x1188mm/25	440.00
10640263	box	A2/50	212.00
10640266	box	A3+/50	166.00
10640261	box	A3/50	108.00
10640260	box	A4/50	54.00
10640361	box	A3/20	48.00
10640360	box	A4/20	27.00



## PHOTO RAG BRIGHT WHITE® 310 GSM **NEW!** 100% RAG CONTENT

### Product Description

A smooth brighter white version of our popular Photo Rag paper. The bright white base provides high contrast monochrome images, vivid colour rendition and excellent images sharpness when printing.

Product No	format	size/sheets	RRP £ (exc VAT)
10643142	roll	44"x12m	230.00
10643143	roll	36"x12m	188.00
10643144	roll	24"x12m	145.00
10643145	roll	17"x12m	103.00
10640214	box	A2/50	220.00
10640215	box	A3+/50	175.00
10640217	box	A3/50	115.00
10640219	box	A4/50	57.00



## PHOTO RAG SATIN® 310 GSM **NEW!** 100% RAG CONTENT

### Product Description

A smooth white 100% rag paper. We have taken our standard Photo Rag and given it a semi-gloss coating which produces a subtle sheen on the printed area of the paper. The result is a stunning and unique product that is opening new and exciting creative applications for digital printers.

Product No	format	size/sheets	RRP £ (exc VAT)
10643037	roll	44"x12m	260.00
10643035	roll	24"x12m	161.00
10643034	roll	17"x12m	114.00
10640437	box	A2/50	250.00
10640432	box	A3+/50	190.00
10640434	box	A3/50	123.00
10640435	box	A4/50	61.00



## PHOTO RAG DUO® 316 GSM 100% RAG CONTENT

### Product Description

The duo paper has all the same qualities as the standard photo Rag. The heavier 316gsm double-sided coating makes it ideal for applications such as portfolios, presentation displays and exhibition graphics.

Product No	format	size/sheets	RRP £ (exc VAT)
10640289	sheets	889x1188mm	600.00
10640282	box	A2/20	118.00
10640286	box	A3+/20	93.00
10640281	box	A3/20	60.00
10640280	box	A4/20	30.00



## PHOTO RAG® 460 GSM 100% RAG CONTENT

### Product Description

A smooth white 100% rag based paper specifically designed to meet the need of photographers or artists using digital photographic output. The 460gsm paper provides the weight of an art board with a smooth calendered surface, which picks up every detail captured in the photograph.

Product No	format	size/sheets	RRP £ (exc VAT)
10640228	889x1188mm	sheets/25	640.00
10640223	box	A2/25	168.00
10640226	box	A3+/25	116.00
10640221	box	A3/25	86.00
10640220	box	A4/25	44.00



## PHOTO ART BOARD SMOOTH 1.2MM 100% RAG CONTENT

### Product Description

A white board with a smooth surface. Designed to feed through most wide format and some desktop printers. Eliminates the need for dry mounting as the boards are ready to be framed.

Product No	format	size/sheets	RRP £ (exc VAT)
10640300	box	36x44"/5	110.00
10640301	box	36x22"/10	110.00
10640302	box	24x30"/10	94.00



## PHOTO ART BOARD ROUGH 1.2MM

### Product Description

A natural white board with a rough woven texture. Print limited edition oil, acrylic and pastel artwork onto the boards, ready to be framed.

Product No	format	size/sheets	RRP £ (exc VAT)
10640305	box	36x44"/5	110.00
10640306	box	36x22"/10	110.00
10640307	box	24x30"/10	94.00



## PHOTO ART BOARD TEXTURED 1.2MM

### Product Description

A natural white board with a rough woven texture. Print limited edition oil, acrylic and pastel artwork onto the boards, ready to be framed.

Product No	format	size/sheets	RRP £ (exc VAT)
10640310	box	36x44"/5	110.00
10640311	box	36x22"/10	110.00
10640312	box	24x30"/10	94.00



## PHOTO ART BOARD MATT 1.2MM

### Product Description

A smooth white board. Print limited editions oil, banners, posters and signs onto the boards, ready to be framed. Ideal for exhibition and display applications.

Product No	format	size/sheets	£ (exc VAT)
10640313	box	36x44"/5	100.00
10640314	box	36x22"/10	100.00
10640315	box	24x30"/10	85.00



## WILLIAM TURNER 190gsm

Natural White MOULD MADE 100% RAG CONTENT

### Product Description

Natural white Mould made natural line paper with 100% rag content making it highly archival. Available in two weights of 190 gsm and 310 gsm. A smooth surface that suits detailed work and watercolours.

Product No	format	size/sheets	RRP £ (exc VAT)
10640129*	roll	44" x 12m	192.00
10640128*	roll	36" x 12m	157.00
10643135	roll	24" x 12m	105.00
10640603	box	A2/50	185.00
10640081	box	A3+/50	144.00
10640601	box	A3/50	95.00
10640600	box	A4/50	47.00
10640641	box	A3/20	40.00
10640640	box	A4/20	21.00

\* 2 inch core



## ALBRECHT DÜRER 210 GSM

Natural White 50% RAG MOULD MADE NATURAL LINE PAPER

### Product Description

210 gsm Mould made Natural line paper, with a textured surface. This enhances the natural texture of the original paper that was drawn or painted onto. Also suits oil and acrylic mediums well.

Product No	format	size/sheets	RRP £ (exc VAT)
10640106*	roll	44" x 12m	207.00
10640105*	roll	36" x 12m	158.00
10643108	roll	24" x 12m	101.00
10640097	sheets	889x1188mm/25	336.00
10640046	box	A2/50	165.00
10640036	box	A3+/50	130.00
10640026	box	A3/50	82.00
10640016	box	A4/50	40.00
10640326	box	A3/20	37.00
10640316	box	A4/20	19.00

\* 2 inch core



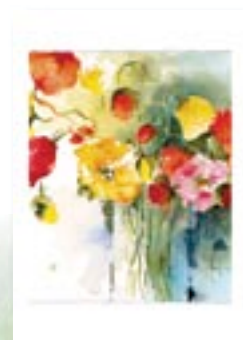
## WHITE ETCHING 268 GSM

Natural White 25% RAG NATURAL LINE PAPER

### Product Description

A Natural White 25% Cotton Art Paper. The slightly textured surface produces a pleasing and subtle print, whilst the cotton content gives the paper the unique feel that you only get from cotton papers.

Product No	format	size/sheets	RRP £ (exc VAT)
10643017	roll	44" x 12m	167.00
10643016	roll	36" x 12m	125.00
10643015	roll	24" x 12m	90.00
10643014	roll	17" x 12m	69.00
10640230	sheets	889x1188mm/A2	325.00
10640237	box	A2/20	66.00
10640231	box	A2/50	156.00
10640232	box	A3+/20	46.00
10640238	box	A3+/50	115.00
10640233	box	A3/20	32.00
10640234	box	A3/50	84.00
10640235	box	A4/20	17.00
10640236	box	A4/50	39.00



## WHITE ETCHING SATIN 270 GSM **NEW!** Natural White 25% RAG NATURAL LINE PAPER

### Product Description

This is the White Etching but also has an innovative semi-gloss coating which adds a sheen to the printed area of your image. It has a whiter surface than the standard German Etching.

Product No	format	size/sheets	RRP £ (exc VAT)
10643027	roll	44" x 12m	193.00
10643025	roll	24" x 12m	106.00
10643024	roll	17" x 12m	80.00
10640337	box	A2/20	75.00
10640332	box	A3+/20	52.00
10640334	box	A3/20	39.00
10640335	box	A4/20	19.00



## TORCHON 285 GSM

### Natural White NATURAL LINE PAPER

### Product Description

285 gsm Natural Line, acid free watercolour paper with a parchment, or pastel paper surface. Especially suits reproductions of oils, watercolour and pastel mediums. A bright natural white finish in colour.

Product No	format	size/sheets	RRP £ (exc VAT)
10643116	roll	44" x 12m	214.00
10643115	roll	36" x 12m	163.00
10643118	roll	24" x 12m	118.00
10643114	roll	17" x 12m	86.00
10640098	sheets	889x1188mm/25	360.00
10640048	box	A2/50	187.00
10640038	box	A3+/50	145.00
10640328	box	A3/20	37.00
10640028	box	A3/50	94.00
10640318	box	A4/20	20.00
10640018	box	A4/50	47.00



## GERMAN ETCHING 310GSM

### Natural White MOULD MADE NATURAL LINE PAPER

### Product Description

310 gsm Mould made, acid free watercolour paper, with the smoothest surface in the Art Line range making it ideal for prints which are highly detailed and photographic imagery. Also, as the name suggests a surface similar to an etching paper which will also reproduce traditional prints excellently.

Product No	format	size/sheets	RRP £ (exc VAT)
13640119	roll	47" x 20m	380.00
13640118	roll	44" x 20m	355.00
13640117	roll	36" x 20m	280.00
13640116	roll	24" x 20m	190.00
10643121	roll	44" x 12m	213.00
10643120	roll	36" x 12m	167.00
10643123	roll	24" x 12m	115.00
10643122	roll	17" x 12m	86.00
10640099	sheets	889x1188mm/25	430.00
10640049	box	A2/50	210.00
10640039	box	A3+/50	155.00
10640029	box	A3/50	106.00
10640019	box	A4/50	52.00
10640119	box	A3/20	43.00
10640118	box	A4/20	23.00



## WILLIAM TURNER 310gsm

### Natural White 310 GSM MOULD MADE NATURAL LINE PAPER

#### Product Description

Natural white Mould made natural line paper with 100% rag content making it highly archival. Available in two weights of 190 gsm and 310 gsm. A smooth surface that suits detailed work and watercolours.

Product No	format	size/sheets	RRP £ (exc VAT)
10643139	roll	44"x 12m	268.00
10643138	roll	36"x 12m	218.00
10643134	roll	24"x 12m	145.00
10640104	sheets	889x1188mm/25	541.00
10640613	box	A2/50	256.00
10640082	box	A3+/50	201.00
10640611	box	A3/50	130.00
10640610	box	A4/50	64.00
10640650	box	A3/20	53.00
10640651	box	A4/20	29.00



## CANVAS MATT 340GSM

### Natural White 340 GSM COTTON CONTENT

#### Product Description

340 gsm Natural White Matt universal artists cotton canvas, coated for wide format inkjet printing. The surface has a true canvas texture which can be stretched and varnished after printing or mounted in a frame.

Product No	format	size/sheets	RRP £ (exc VAT)
10626360*	roll	50"x 12m	380.00
10626364*	roll	44"x 12m	340.00
10626361*	roll	36"x 12m	290.00
10626366*	roll	24"x 12m	190.00

\* 2 inch core



## CANVAS SEMI-GLOSS 340GSM

### Natural White 340 GSM COTTON CONTENT

#### Product Description

340 gsm Natural White semi-gloss artists cotton canvas, coated for wide format inkjet printing. The surface has a true canvas texture, with a sheen which will eliminate the need to varnish to get a gloss effect.

Product No	format	size/sheets	RRP £ (exc VAT)
10641025*	roll	50"x 12m	410.00
10626369*	roll	44"x 12m	360.00
10626368*	roll	36"x 12m	310.00
10626367*	roll	24"x 12m	224.00

\* 2 inch core



## FINE ART CANVAS 350GSM

### Natural White 350 GSM 100% COTTON

#### Product Description

350 gsm Natural White pure cotton canvas, matt coated for wide format inkjet printing. The surface has a true linen texture. The inkjet coating guarantees excellent image definition and colour graduation.

Product No	format	size/sheets	RRP £ (exc VAT)
10626376*	roll	50"x 12m	250.00
10626373*	roll	44"x 12m	230.00
10626372*	roll	36"x 12m	165.00
10626370*	roll	24"x 12m	115.00

\* 2 inch core



## INKJET PHOTO ALBUM 210 GSM **NEW!**

### Photo Album NATURAL ART TWO SIDES PUNCHED PAGES

#### Product Description

Inkjet Photo albums allow the artist and photographer to create their own album or portfolio. The standard DIN A4 and A3 page sizes have pre-punched holes. Contains 20 sheets of "Natural Art Two side" 216gsm, plus 5 sheets of "Art Proof" 110gsm single side coated sheets for testing the placement and layout of the images before you start the album. Refill packs are available.

Product No	colour	size/sheets	RRP £ (exc VAT)
10640830	blue	A4/20	26.50
10640831	black	A4/20	26.50
10640832	silver	A4/20	26.50
10640833	claret	A4/20	26.50
10640840	blue	A3/20	49.60
10640841	black	A3/20	49.60
10640842	silver	A3/20	49.60
10640843	claret	A3/20	49.60



## CERTIFICATE OF AUTHENTICITY

### Alpha numeric HOLOGRAMS AND CERTIFICATE SYSTEM

#### Product Description

Identically numbered holograms and certificates in number runs of 100 at a time to give your limited edition prints extra security.

Product No	format	size/sheets	RRP £ (exc VAT)
10640395	box	A5/100	145.00

The Hahnemühle Certificate of Authenticity is designed to protect the security and exclusivity of your limited edition art works and reproductions, and reduce the risk of forgery.

Each certificate has a serialized numerical hologram already affixed to the certificate. The certificate can then have your customised design and wording printed onto it, eg: description of artwork, publisher, artist, edition number and date, through inkjet, laser, thermal or offset litho printing.

An identical numerically serialized hologram is also provided, to be fixed directly to the artwork itself, usually on the reverse image side. The certificates are manufactured to the strict standards and regulations of Europay and Clearstream, the world leaders in forgery resistant printing. Available in packs of 100 sequenced numbers, we also keep an additional record at our offices for added security.

On our website "www.hahnemuhle.com" you can download a pdf-file to format the certificate of authenticity.

To register the certificates, please go to <http://www.myartregistry.com>



## PROTECTIVE SPRAY **NEW!**

### For Fine Art papers and canvas

#### Product Description

Hahnemühle Protective Spray is a fast drying matt spray which renders an inkjet print UV and water resistant.

The non-toxic coating is sprayed directly on to the image and then allowed to air dry. Increases colour vibrancy, reduces 'bronzing' effects and protects the surface from damage.

Product No	format	size/sheets	RRP £ (exc VAT)
10640702	can	400ml	25.50



# Glossary

**ARTISTS PROOF** – These are the copies of the final proofs that the artist signs as they are getting the colours and tonal values correct before commencing the print run itself. More commonly seen in intaglio and screen processes, as in litho (on a commercial level) they are approved before printing starts. This is enabled more now, as with computer technology, a lot of the proofing will be done on an inkjet printer that emulates the press colours.

**COLOUR CORRECTION** – Manipulation of channels, shades, hues, contrast and levels of individual colours before printing to eliminate any colour casts and imbalances from the original or scanned image.

**COLOUR MANAGEMENT** – A system of control over the input and output devices on how they interpret the colours they are using. This is often done in an image manipulation software program such as Photoshop before printing, or for production based environments where more accurate and consistent results are required, RIP software will be used that contains colour profiles created to match colours when printing on different colours of papers. This process of getting the file to a correct stage is often referred to as proofing. See also: RIP and Workflow.

**CMYK** – Cyan, Magenta, yellow and Key (Black). Process colours. A colour system used by printers to combine each colour on a different printing plate to make up a full colour image. 4 colour printing. (Most giclée printers will print to an inkjet printer in RGB however, as there is better (wider) colour gamut, and scanners capture images in RGB). These are the primary colours of the halftone printing process (offset lithography).

**DIGITAL CAMERA / SCANBACK** - A camera that captures information in a digital file, rather than on film. Digital cameras eliminate the film process of reproducing an image therefore allowing for less colour casts etc. The digital data will also archive better. A Scanback is a professional back for large format studio photography. The digital back scans directly onto a computer and many are capable of creating files of 300 – 500MB. This process is still very costly however, and requires a sound photographic knowledge.

**DIGITAL PRINT** – A print that is created on an Inkjet printer from a digital file on a computer. See also Giclée.

**DPI** – Dots per inch. The measurement units of the output device quality of print. It refers to the number of dots a printer can print per inch. I.e.: a print at 600dpi will have 36000 dots on one square inch or the paper (600 x 600). It also refers to the dots per inch of a scanned image. See also Resolution.

**FILE FORMATS** – The information of a digital file is stored in various file extensions or formats. The formats are either based in the application program that created the file, .psd is a Photoshop file for example, or a more universal format that is supported by most imaging programs are tiff and jpeg. Some compress information in the image more so it creates smaller files. Whilst this is good for storage space and e mailing, information will be lost in the image when you come to print it. (tiff, jpeg, Psd, GIF, and EPS.)

**FOURDRINIER** – The Hahnemühle natural papers are produced on fourdrinier paper machines. This is also called machine made paper. A long wire moving continuously over several rollers is applied to the saturated pulp and the paper web forms. The paper is taken off the wire and inserted into the machine via pre-selected natural felt rollers then pressed and dried in several stages. The weights in the range are from 150-450gsm and are available in many different sizes and surface texture. As with the mould made papers it can be used with watercolour paints and other wet and dry techniques, and many printing processes. For giclée printing, the machine made papers tend to be slightly more rigid than mould made papers.

**GAMUT** – is the colour range that different types of output

device or ink sets can process and create certain colours in that particular range.

**GICLÉE** - Term referring to a digital print from a digitised image outputted from computer to an inkjet printer. It usually should refer to a limited edition, fine art print, onto archival quality coated paper, and printed with pigment inks, which are UV stable. The blue Wool scale is a print standards scale set by the Fine Art Trade Guild, and it specifies a score of 6 or above, on paper over 250gsm, to qualify for the title of a giclée print that has longevity.

**HAND EMBELLISHED** – A process of painting onto a giclée edition after it is printed. The artist will usually pick out certain areas to highlight, either to create a texture similar to the original, or to pick out gold and metallic colours that can't be reproduced.

**HOLOGRAM SYSTEM** – A system Hahnemühle has launched to ensure that artists prints can not be copied, and the authenticity can be recognised. It consists of an alphanumeric hologram that goes on the back of a numbered print, and one of the same number on a certificate of authenticity.

**INTAGLIO** – Refers to a print process where the image is created by a metal plate being bitten with acid or scratched on the surface of the printing plate. When the plate is inked up, ink will be pushed into the bitten lines or areas and this is what will create the image in reverse directly onto the paper when rolled through the press. Processes include etching, engraving, mezzotint, drypoint, aquatint and photo etching.

**IRIS** - A certain type of inkjet printer that was first used for reproducing artwork onto fine art papers.

**IT8** – is a range of colour targets for colour characterisation of different devices and media such as scanners and printers. Used for making colour profiles to get consistent colours on different papers. This is the industry standard colour reference tool for calibration input and output devices.

**LIGHTFASTNESS** – The rate at which dyes, pigments and paints change colour or get lighter as a result of being exposed to UV or daylight, heat, acids or alkalis. The expected or estimated life of a print can be measure by tests such as the Blue Wool scale (UK) and the Wilhelm laboratory reports (USA). However the lightfastness can be affected by the combination of ink and paper used and therefore all the inks may not fade at the same rate.

**LIMITED EDITION** – A limited edition has a closed number of prints in the print run. Once this number of prints has been made, no more copies of the images can be reproduced or sold. (Apart from the artists and printers proof) This can add value to a print. In Lithography 850 is the usual standard number in the print run, at the artist or publisher's discretion. With Giclée the numbers can be much smaller. The Fine Art Trade Guild conditions state that if it is declared a limited edition print no more than 1950 copies (including the artists proof) must be produced.

**LITHOGRAPHY** – High volume, 4-colour separation, process ink based printing process. Commercially, offset lithography and is the quickest and commonest form of photomechanical reproduction. Artwork is scanned then separated in the CMYK colour channels onto 4 printing plates, printed in succession to create a full colour image. Separate colours can be added on further plates to create special effects such as gold ink or a varnished area that can not be made up from CMYK in the standard Pantone range. These are called spot colours. Artists still use offset and stone lithography to create artwork, but by hand it is a much lengthier process. The basic technique for both methods is that grease repels water and these are the areas that will remain white, the rest of the areas will accept ink and therefore print.

**MOULD MADE PAPER** – The Hahnemühle mould made watercolour boards offer excellent colour flow and brightness.

This makes them usable not only for watercolour but also gouache, tempers, lavis, and charcoal and pencil drawing. Produced on a cylinder mould made machine, and then taken off and fed through natural felt rollers. The mould made papers range from 200-600gsm, and tend to have a softer surface texture.

**OPEN EDITION** - referring usually to offset lithographic prints and the fact that there is no limit to the number of prints produced from this image. An open edition also means it can be produced in various sizes, on cards and clothes etc.

**PIGMENT INK** – Pigment inks are literally pigments of colour ground down very fine and suspended in a liquid to make ink, compared to dye ink, which is a dye suspended in liquid. As with other types of colour, pigment produces a more lightfast material or ink that will take longer to fade. Current pigment based inks on the market can be anywhere up to 100+ years lightfast, but this depends on a number of factors such as ink manufacturer, paper type and storage conditions. Pigment inks can tend to have a smaller colour gamut than dye-based inks.

**PLATEMARK** – The indentation at the edge of a printed image caused by the plate pressing into the paper as it goes through the printing press. These types of marks are created in etching and intaglio print processes where the image is contained on a metal plate.

**PROFILE** – Refers to specific colour settings to be used with different papers and ink sets, to create the correct colour reproduction. It is used to transform from one colour space to another.

**RESOLUTION** – The higher the resolution of a scanned image the more information is held. The resolution of an image is measured in 'dpi' dots per inch. The 'dots' refer to the pixels that make up a digital image. So for example a resolution of 150dpi means that in each inch of the image there are 22500 pixels (150 x 150) in every square inch. This is also referred to as ppi, pixels per inch and sometimes just as 'res' which is the metric resolution per millimetre (e.g.: res 12 is equivalent to 305 ppi).

**RGB** – Red, Green and Blue. This colour system cannot be used for planographic printing such as lithography, but is often used in digital printing, the files stay in this format. The actual inks in the printer however are still CMYK, often with the additional colours of light cyan, light magenta, an extra black and sometimes orange and green (called hexichrome) to give wider colour gamut and better tonal gradation. RGB are the primary colours of light, which are different to the primary colours of pigments in paints and inks.

**RIP** – Raster Image Processor. Raster images are made from bitmap rather than vector grids. Rasterisation is the process of converting mathematical and digital data into dots by an output device. Therefore, the job of a RIP is not only to do this job but it also helps to increase images to large sizes without as much loss of information or pixelation as doing the same process in Photoshop. ICC profiles can also be attached to the RIP software for colour management purposes.

**SCANNER** – An input device in which to capture a piece of artwork onto a computer as a digital file. A scanner uses light sensitivity to translate the picture into a pattern of dots. Types of scanner: Flatbed scanner, drum scanner, transparency scanner, scanback and digital camera.

**SERIGRAPH** – A term used to describe silk screen prints, or prints where flat colour is built up in layers to create an image. Each colour requires a separate screen, and therefore makes it a costly process for doing limited edition print runs.

**WORKFLOW (closed loop system)** – This refers to having a complete system of scanner, monitor, software, printer and paper which are all calibrated up to each other. This makes colour management easier, quicker and more accurate.

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