

Autotype Screen Products

Screen films

**Autotype Screen films,
performance you can trust**



Autotype Screen Products - Performance you

Autotype Knife Cut Stencil Films

Simple designs can easily be reproduced using Autotype knife cut stencil films:

Autotype Solvent Green – perfect for garment printing with water based inks

Autotype Autocut – resistant to solvent based inks is ideal for simple graphics

Autotype Indirect Photo Stencil Films

Select Autotype indirect films for ultra high quality, short run printing with solvent based or UV curable inks. These films are perfect for prototyping and other short run applications where quality is paramount:

Autotype Alphastar for ultra fine detail

Autotype Five Star for lines down to 100 microns

Autotype Greenstar for when some tape edge cover is required

Autotype Novastar has the added benefit of chemical-free processing and cold water wash out

Autotype Capillary Photo Stencil Films

'Right first time' production is the goal of every Production Manager. This requires a process that is both predictable and reliable. Companies all over the world have discovered that the Autotype Capillex photo stencil range helps to deliver exactly that. A tough, reliable stencil, that gives excellent print quality under a wide range of conditions.

Autotype Capillex is available in two ranges: the standard range and the Controlled Profile range.

Mesh count/cm											
	43	62	77	90	100	120	140	150	165	180	
	Standard Range										
Capillex 18											
Capillex 20											
Capillex 25											
Capillex 30											
Capillex 35											
Capillex 50											
Capillex 80											
	Controlled Profile Range										
Capillex CX											
Capillex CP											

The standard Autotype Capillex range consists of seven precision coated films to cover a mesh range from 43-150/cm. Autotype Capillex is world renowned as THE product family that combines quality with total dependability. It really is easy to get the perfect result with Autotype Capillex.

Thin films: Autotype Capillex 18, 20, 25 and 30

Typically these thin films are used on finer mesh counts from 100 to 150/cm for printing fine line and halftone images. Product selection is normally based on mesh count as the finer the mesh the thinner the film required – see selection chart above. Select Autotype Capillex 18 for halftone printing and Autotype Capillex 20 for fine line printing when using the finest mesh counts and Autotype Capillex 25 and 30 for the medium fine mesh counts.

Thick films: Autotype Capillex 35, 50 and 80

Designed for use on medium to coarse mesh counts, these products are perfect for industrial applications which require a high ink deposit combined with good edge definition. Autotype Capillex 80 is particularly suited for use on the coarsest mesh counts used in PCB production.

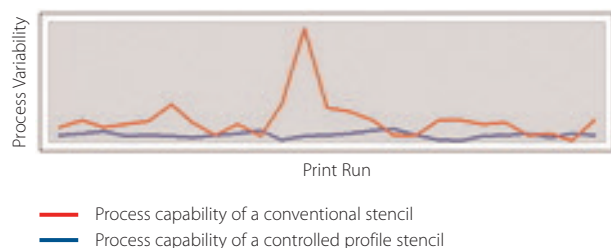
Autotype Capillex is perfect for use with solvent based or UV curable inks in a wide range of screen printing applications, from ceramics to car windscreens. N.B. They are not designed to work with water based inks.



Autotype Capillex – controlled profile range

The new Controlled Profile stencil technology developed by MacDermid is incorporated in the two new flagship products of the Autotype Capillex controlled profile range. It is this technology that combines a low profile (EOM) with a low Rz coupled with outstanding durability. It is a proven fact that a thin, flat stencil makes it easier to print high quality images. The benefits of this new technology are significant:

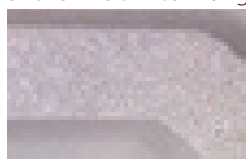
- **Better dot and line reproduction** – less sawtoothing and ink slump
- **Reduced ink height** – minimises problems with dot on dot ink skipping
- **Reduced image distortion** – less squeegee pressure is required
- **Improved stencil life** – fewer wash ups and less stencil wear
- **Less down time** – ink flow is improved so fewer wash ups
- **Improved productivity** – first time quality is achieved on the press
- **Improved process capability**



New Autotype Capillex CX – controlled profile stencil for line images

Autotype Capillex CX is formulated for the most demanding industrial applications such as conductive or resistive ink printing and other critical deposit processes.

It provides a consistently low but controlled stencil profile over a wide mesh range (62-100/cm). The optimised balance of profile and Rz gives Autotype Capillex CX superb print reproduction. A prerequisite when printing conductive inks.

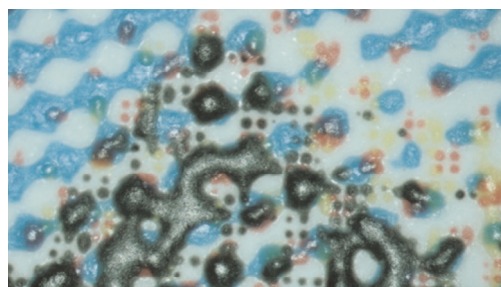


Conductive silver track printed with Autotype Capillex CX

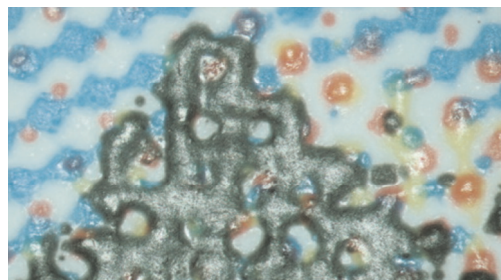
Autotype Capillex CP – controlled profile stencil for halftone images

The ultra low profile of Autotype Capillex CP dramatically reduces ink build without compromising print quality. This reduces ink transfer 'skipping and stacking' problems often seen with UV inks. The unique micro-matted stencil surface ensures a good gasket with the substrate to give superb dot reproduction without compromising release properties.

Autotype Capillex CP will consistently give a low controlled stencil profile on a mesh range of 120-180/cm but is particularly suitable for printing fine halftone images with UV ink on 150 or 180/cm mesh, making it the perfect product for demanding applications such as CD and ceramic decal.



Ink skipping caused by high EOM of conventional stencil



Excellent dot reproduction from the low EOM of Autotype Capillex CP

Key Applications

- Compact Disc
- Automotive
- Membrane Touch Switches (MTS)
- Ceramics
- Glass Bottles
- Printed Electronics
- PCBs
- High quality graphics

Autotype Screen Products

Autotype Capillex Laminating Fluid

Autotype Capillex laminating fluid is a low viscosity mounting fluid that simplifies applying Autotype Capillex products to stainless steel or coarse polyester meshes. The laminating fluid can also be used in conjunction with a conventional coating machine for medium to large screens.

Autotype Caplicators

Producing dust free screens can be a challenge in a busy production environment. The Autotype Caplicator is a simple yet ingenious tool that helps you produce perfect screens every time. The sheet of Autotype Capillex film is placed in the cassette and then manually applied to the wet screen. The anti-static dust wipes in the cassette ensure that any surface contamination on the film is removed immediately prior to application. The Autotype Caplicator is available in 6 sizes from 38cm to 122cm.



Key Benefits

- 'Proven products for demanding applications' - that is the hall-mark of the Autotype Capillex range which makes it easy for screen printers to achieve the leading edge quality and consistency necessary to gain a commercial edge.
- Ease of use and wide processing tolerance - is a requirement for global acceptance and Autotype Capillex films to deliver real world success in high quality screen print applications.



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