

## New “break-through” engraving for UV printing

**The ‘ground-breaking’ new engraving, MaxfloUV, maximizes the ink flow within the cells offering higher ink transfer at high speeds.**

MaxfloUV has been developed to be used with the latest generation of high strength UV inks offering outstanding levels of colour density without colour drop-off and the problem of spitting sometimes experienced when printing at high speeds with conventional engravings.

Until now, highly pigmented UV inks would cause spitting when printing at high speeds. Following requests from our customers Cheshire Anilox specifically developed this new engraving to overcome this problem.

This unique cell profile incorporates all the benefits of its predecessor the maxflo but with an enhanced design enabling the ink to flow freely

**Right:** Maxflo UV eradicates completely UV spitting

from cell to cell. As press speeds increase, the ability to consistently and effectively fill the cells on the Anilox with ink in order to deliver a uniform ink film thickness to the plate becomes more challenging. The cell depth-to-opening ratio is of critical importance. Deeper cells may mean greater volume. However, if the surface tension of the printing plate is too low to pull the particles of ink from the cell, then transfer will be very poor. By widening the bottom of the cell we have improved the ink transfer. By linking the cells we have eased the ink flow which causes UV spitting or spray that happens when a build-up of ink stay behind the doctor blade causing vibrations that will result in spitting.

The new engraving has undergone extensive field tests with Cheshire Anilox Technology customers and has been engineered to perfection.

### Award-winning Proflo Anilox first choice for HD flexo printing

More and more label printers worldwide choose Proflo engraving for HD printing. Proflo features a new improved cell profile that will provide a more consistent ink lay down while also eliminating the chance of uncontrolled dot gain. This high-release cell offers as much as 15% additional ink compared to conventional engravings allowing printers to achieve high colour densities at extremely fine line counts. This unique cell profile now allows printers to work with the expanded tone range of offset and rotogravure printing techniques producing vibrant colours and high contrast images for greater shelf impact.



# Cheshire installs fifth laser

Cheshire Anilox Technology in collaboration with Applied Laser Engineering have now installed a fifth Fibre laser to meet a surge in demands of high release engravings and a consistent growth in sales. The 500W laser is the most advanced of its kind and will allow Cheshire to produce high quality bespoke engravings to suit the most challenging flexo and coating applications.

The new 4.5 meter Fibre laser system is equipped with the latest Multi Beam Technology for high precision and high quality engraving with fully programmable cell geometries. It can produce engravings from 25LPI-2000LPI.

**Below:** New Fibre ALE laser



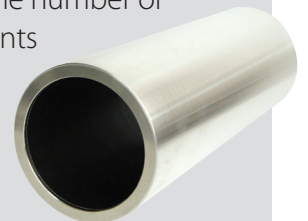
It features a Custom Pulse to provide graphical control and creation of bespoke cell shapes. It also features the latest MAD engraving mode for high precision engraving which offers greater control over cell shape for maximum release and absolute engraving consistency with less than 1% cell volume variation across the roll surface.

The purchase was described as a "Historic moment" for the Company and as the evidence of Cheshire's long term commitment towards continuous improvements in quality and service as it continues its expansion on flexo, offset and global markets

## New Anilox Sleeve design for longer durability

After listening to many sleeve users it was clear a more robust and resilient design was required. This is why Cheshire Anilox Technology in close cooperation with its manufacturing partners have improved the design of their sleeves to enhance its durability. The end rings found on most of Anilox sleeves usually come off after little usage exposing the numerous layers within the Anilox sleeve to ink and chemicals accelerating its deterioration. They also protect the sleeve inner layers from impact damage that may occur at mounting or handling.

The new sleeve features a more durable and integrated design, with the aluminium cladding continuing across the sleeve face encasing the stainless steel ends. This offers greater protection with less chance of the end rings coming away, preserving the inner layers and increasing the number of refurbishments a sleeve can undergo during its life span.



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