



ADVANCED ANILOX TRANSFER TECHNOLOGY

YOUR STRATEGIC PRINT PARTNER

INNOVATIVE ANILOX SOLUTIONS PROVIDER | WWW.CAEPTY.COM

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CERAMIC ANILOX ENGRAVERS

Flexographic Printing Solutions

About us

Established in 1999, Ceramic Anilox Engravers Pty Ltd (CAE) is a family-owned and managed anilox producer.

Our core products are entirely manufactured and refurbished at our world-class production plant in Durban, South Africa, servicing both local and international clients.

Our main focus is on producing the highest quality products and services at competitive prices for our customers around the world.

Why we do what we do

At the core of our business are strong family values - as everything we do not only represents our company and brands, but also our family name. Hence why we are focused on constantly delivering the highest quality products and services using only the very best technologies

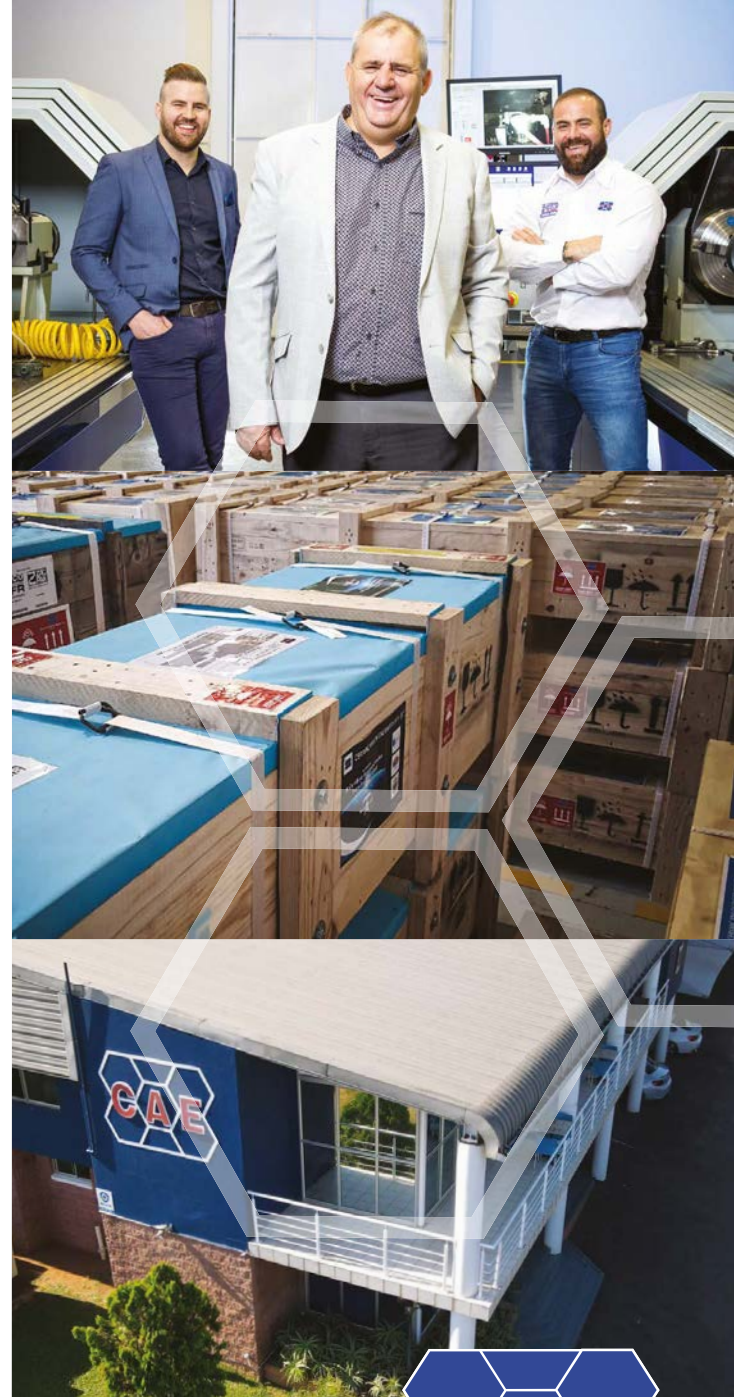
available, all at competitive pricing for our all clients - no matter where they are in the world. We see our clients' business as an extension of our business.

At CAE, we are dedicated to pursuing new and innovative technologies and techniques. We are more than just a supplier, we see ourselves as your strategic print partner that will support your business success.

By combining technology, engineering, experience and expertise we strive to remain a market leader in the manufacture and refurbishment of high quality, innovative anilox transfer technologies for specialised applications in the printing and coating industries worldwide.

Mission Statement

To remain a world-class supplier of specialised products and services, and to ensure the involvement of all employees and suppliers in the pursuit of continuous quality improvements that exceeds our customers' requirements and expectations.



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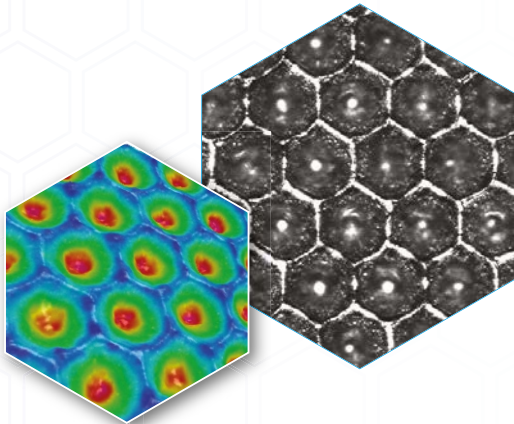
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yCell (HD) HDLE Anilox Transfer Technology



The world's leading anilox innovation.

We are proud to present our GEN II yCell (HD) HDLE with Pegasus coating technology. As a global player in the manufacture and refurbishment of high quality rollers and sleeves we now offer our extensive customer base a bold revolution in High Definition Laser Engraving (HDLETM).

P-Coat

P-Coat has been specifically designed for optimum energy transfer and precision particle velocity to produce a new generation in anilox coatings this ensures we can produce rapid, uniform and repeatable high quality ceramic coating.

CAE remain the only African supplier to have a complete production facility (one-stop shop) and have complete process control over every aspect of the anilox production process – from start to finish – in accordance with our SABS ISO 9001 quality management system.

yCell (HD) HDL is available in Roller, Sleeve and Lightweight formats to suit all press specifications and tolerances.

yCell (HDLE Transfer Technology)

Advanced HD 30° and 60° cell configuration laser engraved using the latest high definition laser engraving technology (HDLETM) with the advanced features: MBA (Multi Beam Anilox), MAD (Micro Anilox Displacement) and custom cell profile generation.

KEY TECHNOLOGY IMPROVEMENTS

- Impermeable corrosion protection barrier/layer.
- Advanced yCell (HD) HDL cell geometry, ensuring advanced ink release.
- Higher resistance to scoring and surface damage over conventional anilox technology.
- Extended blade life due to advanced post-peak polish reduction.
- Easy to clean cell profile, helping printers reduce/eliminate cell clogging, contamination and machine downtime.

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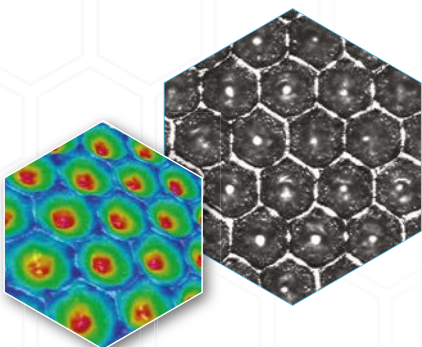
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yCell (HD) HDLE
Anilox Transfer
Technology



SCREEN & VOLUME CHART

LPI Lines Per Inch	LPCM Lines Per CM	cm3/m2 Optimum	cm3/m2 Max	BCM1 Optimum	BCM2 Max
100	39	28,60	40,00	18,45	25,80
120	47	23,54	36,90	15,18	23,80
140	55	19,67	30,80	12,69	19,87
165	65	16,65	23,20	10,74	14,96
180	70	15,03	22,00	9,69	14,19
200	80	13,48	19,20	8,69	12,38
220	87	12,08	16,98	7,79	10,95
240	95	11,28	15,70	7,27	10,12
250	100	10,73	15,30	6,92	9,87
280	110	9,34	13,42	6,02	8,65
300	120	8,56	13,00	5,52	8,38
360	140	7,13	12,75	4,59	8,22
400	158	6,17	10,16	3,98	6,55
440	173	5,62	9,12	3,62	5,88
500	197	4,79	8,00	3,09	5,16
550	217	4,52	7,16	2,91	4,61
600	236	4,00	6,55	2,58	4,22
700	276	3,42	5,70	2,20	3,67
800	315	2,94	4,70	1,89	3,03
900	355	2,52	4,30	1,62	2,77
1000	400	2,11	3,52	1,36	2,27
1200	473	1,56	3,35	1,00	2,16



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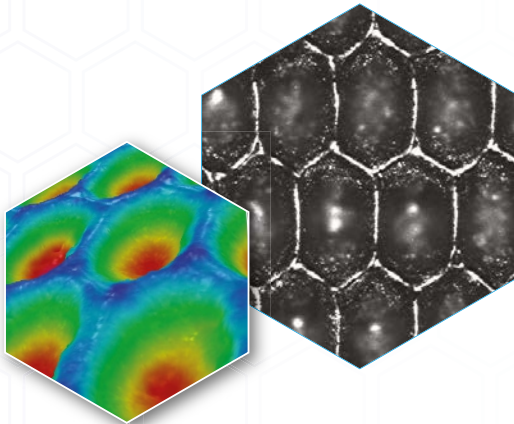
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eCell (HD) HDLE Anilox Transfer Technology



eCell (HD) HDLE Anilox Transfer Technology has been specifically developed to assist printers obtain higher print quality, improved definition, and take full advantage of the latest CTP, HD, NX, Flat-Top Dot plate techniques.

This advanced high definition anilox transfer technology has fundamentally been designed and based on the proven principles, practices and successes of the industry standard yCell (Y-Hex) 60 degree cell pattern.

However, in essence, the eCell is a modified elongated version which consists of two differential screen counts (vertical and horizontal) which create a unique elongated cell shape.

This extremely advanced anilox transfer technology has been strategically refined and developed using a combination of advanced high definition laser engraving techniques – MBA (Multi Beam Anilox), MAD (Micro Anilox Displacement), Custom Cell (Cell Design Software) – into our new-aged Black Pearl™ ceramic coating which is robotically applied, ensuring optimum quality.

eCell (HD) anilox transfer technology now allows printers to select and specify higher screen counts than that of their conventional yCell (60 degree) cell counts.

Printers can, however, still maintain the same or higher volume ranges without the need for plate screen changes. The uniqueness of this elongated high definition cell shape allows for ink to be transferred more fluently, dramatically improving the amount of ink transferred to the substrate and visibly improving the density, opacity and overall print quality.

KEY BENEFITS

- Increased Ink Transfer Ranges.
- Higher Screen and Solid Combination Coverage.
- Low Dot Gain.
- Extended high definition Colour Gamut Performance (More POP for Flexo).
- Consistent volumetric transfer.
- Superior contrast and density at higher line screens counts.
- Cleaner and sharper highlights and mid tones.
- Reduction in ink flinging.
- CTP, HD, NX, Flat Top dots, and stochastic plate technology ready.

KEY FEATURES

- High Performance eCell (HD) AVM Certified Cell Tech.
- New generation coatings using latest P-Coat techniques and technologies.
- Easy to maintain and clean due to the elongated cell shape.
- Extended Nano Doctor Blade ready surface technology.
- Designed to run at faster press speeds, low-cell turbulence technology.

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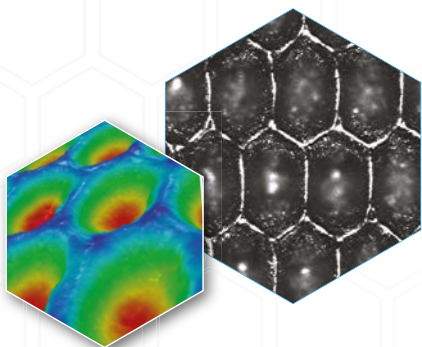
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SCREEN & VOLUME CHART

LPI Lines Per Inch	LPCM Lines Per CM	cm3/m2 Optimum	cm3/m2 Max	BCM1 Optimum	BCM2 Max
280	110	16,30	20,30	10,50	13,10
300	120	15,00	18,90	9,80	12,20
330	130	14,50	18,30	9,40	11,80
360	140	13,00	16,30	8,40	10,50
400	160	10,80	13,60	7,00	8,80
440	180	9,90	12,40	6,40	8,00
500	195	8,40	10,50	5,40	6,80
550	220	7,90	9,90	5,10	6,40
600	240	7,30	9,10	4,70	5,90
660	260	6,50	8,20	4,20	5,30
700	275	6,00	7,60	3,90	4,90
800	315	5,00	6,20	3,20	4,00
900	355	4,50	5,60	2,90	3,60
1000	390	4,00	5,10	2,60	3,30
1100	430	3,70	4,60	2,40	3,00
1200	475	3,40	4,20	2,20	2,70
1300	510	2,90	3,70	1,90	2,40
1400	550	2,60	3,30	1,70	2,10
1500	590	2,30	2,90	1,50	1,90



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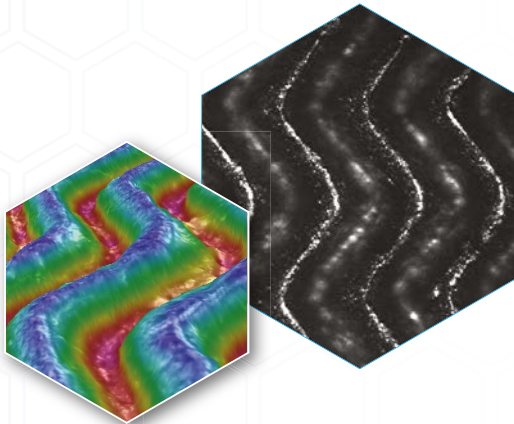
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Cobra (HD) HDLE Anilox Transfer Technology



Cobra (HD) HDLE Anilox Transfer Technology has been specifically developed to assist printers obtain higher print quality, improved definition, and take full advantage of the latest CTP, HD, NX Flat-Top Dot plate techniques, without having to change their plates, simply enhance print coverage and quality.

This advanced high definition anilox transfer technology has fundamentally been designed using an advanced open cell technology; we refer to as Cobra due to its snake like shape and configuration which allows for high density coverage while still accommodating finer screen printing.

Our latest open cell transfer technology has been strategically refined and developed using a combination of advanced high definition laser engraving techniques – MBA (Multi Beam Anilox), MAD (Micro Anilox Displacement), Custom Cell (Cell Design Software) – into our new aged Black Pearl ceramic coating which is robotically applied, ensuring optimum quality.

Printers can now however, select improved volume ranges without the need for plate screen changes. The uniqueness of this open cell shape allows for ink to be transferred more fluently, dramatically improving the amount of ink transferred to the cliché and substrate, visibly improving the density, opacity and overall print quality, while also offering very easy to clean cell technology due to its open cell configuration & structure meaning longer lifespan.

KEY BENEFITS

- Increased Ink Transfer Ranges.
- Lower Dot gain, at high density volumes.
- Consistent volumetric transfer, with AVM Certification.
- Superior density and coverage while also able to print higher cliché screens.
- Cleaner and sharper highlights and mid tones, while producing advanced solid coverage.
- Reduction in ink spitting due to open cell configuration.
- CTP, HD, NX, Flat Top dots, and stochastic plate Technology ready. No need to change plate simply enhance your print quality.

KEY FEATURES

- High Performance Cobra (HD) AVM Cell Tech.
- New generation robotically applied high density, low porosity ceramic coating technology.
- Easy to maintain and clean cell technology, due to open cell configuration.
- Extended Doctor Blade lifespan, due to open slalom cell movement when running; this also dramatically reduces score line damage.

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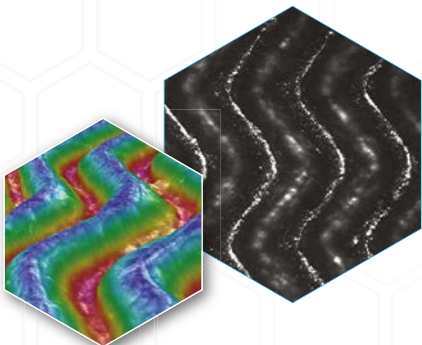
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Cobra (HD) HDLE
Anilox Transfer
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SPECIFICATION CHART

In order to select the most suitable Cobra type, please contact your CAE technical sales representative, who will be able to give you more in-depth technical insight to achieve optimum print quality, based upon your ink type, plate screen and print process.

We guarantee product success.

Cobra Ref	Solid Coverage	Line & Type	Vignettes	Process
Cobra I	★★★★★	★★★★	★★	★
Cobra II	★★★★	★★★	★★★	★★
Cobra III	★★★★	★★★★	★★★★	★★★
Cobra IV	★	★★	★★★★	★★★★★



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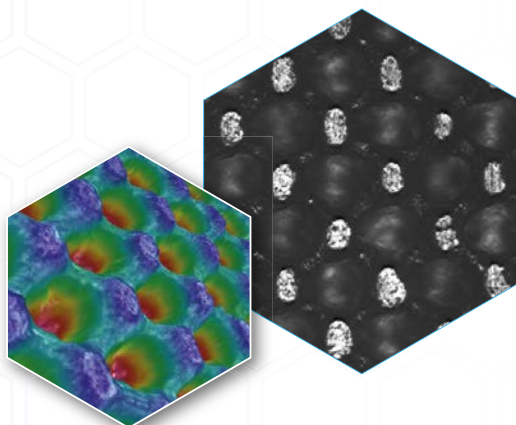




HITT

HIGH INK TRANSFER TECHNOLOGY

High Ink Transfer Technology



H.I.T.T stands for High Ink Transfer Technology which is available for both Anilox rolls and anilox Sleeves. H.I.T.T cell geometry has been designed as an engraving that can offer a higher and more homogeneous ink transfer and is a special application cell geometry. This is obtained by utilizing open cell technology in conjunction with advanced transfer and volume ranges, which is easily cleanable due to its open cell configuration.

Efficient and homogeneous ink transfer allows for various new possibilities for opaque white printing, lacquering and various coating applications. H.I.T.T engravings are also suitable for lacquer units specifically in the offset printing and for coating machines.

The use of this cell geometry allows for a wider volume transfer with minimal residues and maximum transfer capabilities regardless the liquid dynamics of the various inks, lacquers, or coating applications.

This cell geometry is specifically designed to help printers with large solid coverages, while ensuring smooth transfers, it is equally well suited for specialized coating application due to its open cell nature.

KEY ADVANTAGES

- Higher ink transfer.
- High opacity and reduced ink consumption.
- Improved film transfers removing pin-holing.
- Improved suitability for low, thick viscous inks, coatings and lacquers.
- Simple to clean due to open cell geometry.
- Special suitability for opaque whites, lacquers, and special process inks metallics, rainbow coatings, etc.

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Let's work together

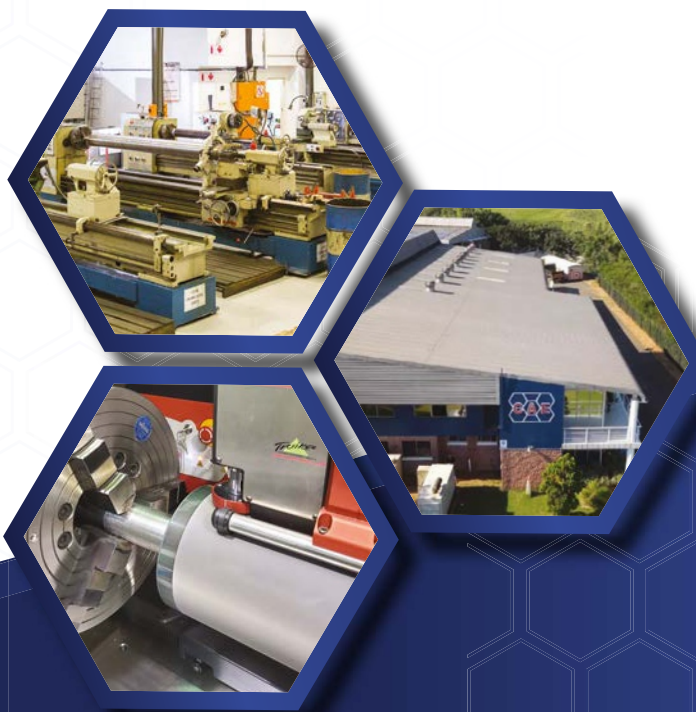
Whether you're a local or international business,
we've worked with them all.

We can help your business. Drop us line.

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