



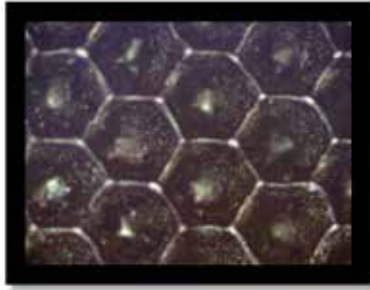
Brochure



Engraving Types

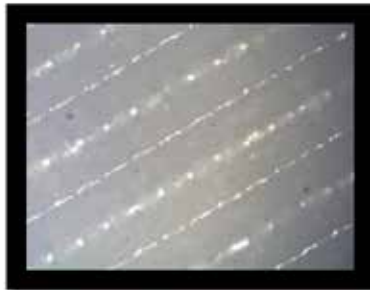


Engraving Patterns



Hexagonal Engraving

The six-sided cell, industry termed “hex” pattern, with its ability to release more ink per square inch than its traditional mechanically engraved counterpart from years past, the 60° hexagonal shape is used for the majority of traditional flexo ink applications today with engravings of 40 to 1800 LPI. This pattern is also available at a 30° angle for more viscous ink applications.



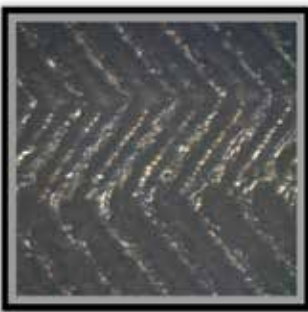
Try-Helical Engraving

For use with tactile varnish, and glue applications. The Tri-Helical is literally a paddle-wheel for picking up and transferring high viscosity coatings. Engravings range from 40 to 250 lines per inch and volumes of 20 to 100 BCM.



*Channel Engraving

Open cell technology is used for coatings, smoother laydowns of larger solid dispositions. Traditionally used in volumes of 5 to 20 BCM.

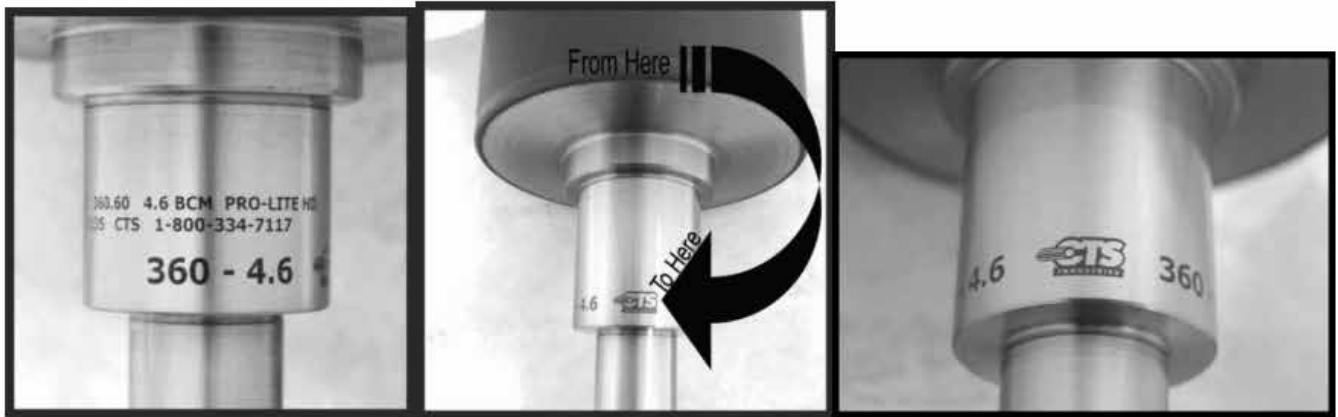


V-Force™

Exclusive to CTS Industries and available in limited applications for R&D technology, V-Force™ technology is designed for coatings and special applications creating a smoother laydown and removing foot-print issues. Available in volumes of 10 to 20 BCM.

The Color of Productivity..

Wear Resistant Identity for your Anilox Roll Inventory makes the most green!



EZ-View **PRO**



The User Friendly Anilox

Admiral PRO-LITE HD

and

ultraflow
VOLUMES

63% TO 76% LIGHTER THAN CONVENTIONAL BASES

- Lower Shipping Costs-less weight
- Better bearing life-less pressure
- Easy lifting-less operator fatigue
- Easier storage



2 YEAR WARRANTY

- Peace of mind when you order an anilox from CTS

DESIGNER FOR RE-ENGRAVING!

- Cost savings plus you take advantage of our Pro-Lite HD™ anilox base for more years to come.

EZ VIEW PRO™ ENGRAVING

- Never guess the engraving of your anilox again. No magnifying glass needed. No need to worry about ink or chipped engraving removing the specifications. Won't come off with a scrape blade.

**ENGRAVINGS of 50 to 1500 LPI
VOLUME RANGE from 0.5 BCM to 75 BCM
PATTERNS of 60°, 30°, 45°, & Tri-Helical**

Data

Anilox base is made from stressed and x-rayed material. More than 6,000 Pro-Lite HD™ anilox rollers are in narrow web presses in the USA. The Pro-Lite HD™ is capable of handling press speeds up to 1500fpm.

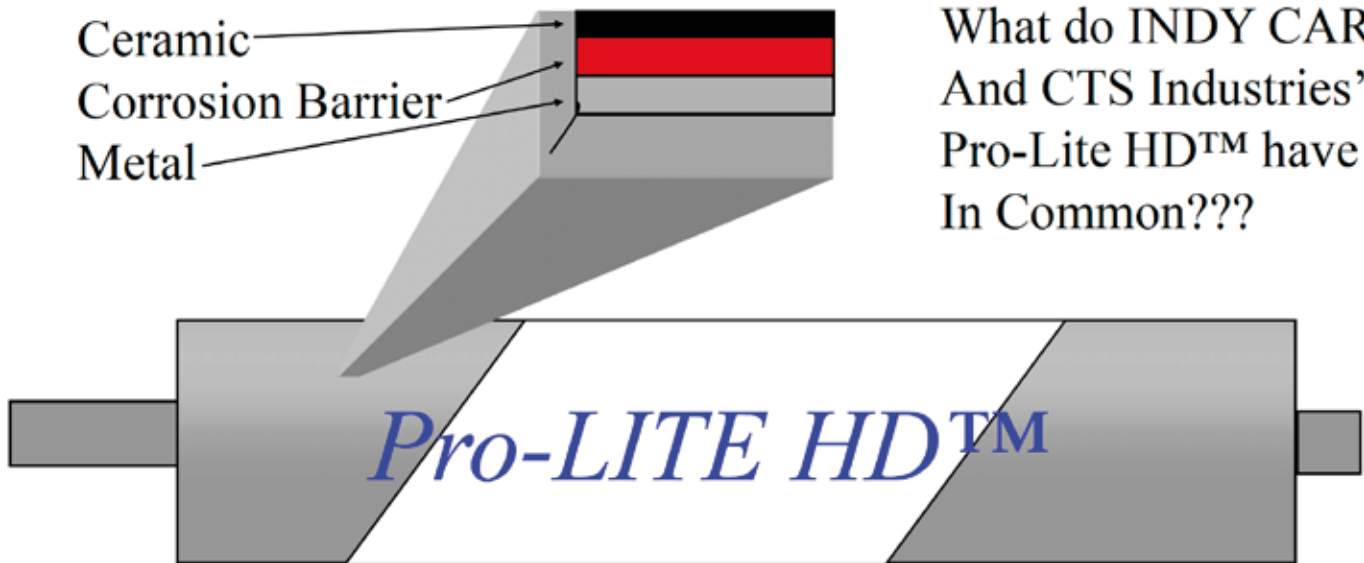
The Pro-Lite HD™ Talion™ coating carries the densest ceramic in the industry w/ hardness comparable to diamonds.

EZ View Pro™ engraving allows press operators to view LPI, BCM, and serial number at press side without a magnifying glass.

The cleanest engraving in the industry, because of our Talion™ coating. Just wipe off the ink when performing your water wash up. Dry off with denatured alcohol, and your anilox is ready for the next print run.

An investment in a Pro-Lite HD™ anilox roller will show our investment in your print quality. Every time.





What do INDY CARS
And CTS Industries'
Pro-Lite HD™ have
In Common???



PRO-LITE™ vs the competition's base. You get what you pay for.

What is Galvanic Corrosion?

Galvanic corrosion can occur when two dissimilar metal materials are electrically connected in a corrosive environment.

As an anilox example, let's use stainless steel journals and aluminum tubing walls.

When stainless steel is joined with aluminum and submersed in a high pH environment, the aluminum (weakest of the two metals) will begin to deteriorate.

In a cost-conscious world, manufacturers make concessions when building a lightweight roller to hold up to the print life of the original LPI on the anilox. In other words, when the engraving is worn and no longer useful, so too will be the base.

However, if the intentions of the printer will be to send the worn engraving out for reconditioning, the printer will be surprised to learn the integrity of the base has been compromised with rust, oxidation, stress cracking, or pitting.



Anytime an anilox roller is submersed in water, or another conductive solution, the material must be strong enough to create a uniform resistance from corrosion.

With two different metals, in this case stainless and aluminum, the water will begin to attack where they are joined, causing the contacted areas to lose strength, weakening the cylinder, and making it very difficult to rework at a fair price.

When using a similar material throughout the base, as with PRO-LITE™, the anilox roller is capable of printing, cleaning, and repeat reconditioning capacities for several years, giving the printer a much higher ROI.

Anilox rollers are expensive. Get what you pay for. Questions to ask when purchasing a quality anilox base for your engraving:

- Ask what types of material the anilox base is manufactured with.
- Ask for a warranty or guarantee of reconditioning an existing base without additional base charges.



Anilox Roller Warranty

We guarantee

- Each roller to be free from manufacturer's defects.
- Each roller INTO the press (this means if the roller is damaged by anyone's fault before the roller gets ink on it, CTS will replace it for free, no questions asked.
- Each Laser Engraved Ceramic anilox roller will have the volume requested by the customer within the recommended range of the **Ultraflow™** cell volume chart.
- Laser Engraved Ceramic 4000 hour or 2 year limited warranty (whichever comes first) for volume consistency to wear no more than 20% of original volume (engravings of 200 LPI – 600 LPI) warranty does not include ceramic chips, doctor blade scoring or damages, damages to the base, misuse of anilox roller, other than being used as designed for the OEM press. Warranty is applied to New Anilox Roller Only.





Anilox Roller Comparison

	Warrior™	ProLite HD™
Re-engraveable	✓	✓
EZ-View Pro™ Engraving Specs	✓	✓
Up to 70% lighter		✓
2 year manufacturer warranty		✓
NewLife Cleaning Technology™		✓
OEM design base	✓	✓
Diamond hardness ceramic	✓	✓
Ultraflow™ Engravings	✓	✓
Ultraflow Premium™ Engravings	✓	✓
Clean up in Ultrasonic systems	✓	✓
Manufactured in house	✓	✓
Line work printing	✓	✓
Screen printing	✓	✓
Process printing	✓	✓
Specialty printing		✓
Tactile Varnish Engravings		✓
Lenticular Film Engravings		✓
Lottery Ticket printing		✓
Easy storaget		✓
Into press warranty	✓	✓

Anilox Sleeve—

The multi-layer design is created for high quality engraving at demanding press speeds.

Aluminum core construction and composite poly fill are the base. Then we incorporate CTS Industries' diamond hardness ceramic coating and super-honing finish, we can create most engraving requests to suit your specific printing applications.

When taken care, anilox sleeves can be re-worked, saving the printer in turn around time and money.

Available in 13" width design and larger

OEM Specification Quality

PART™ Analysis

EZ View™ Technology

Serialized Info for repeat orders

▶ Anilox Sleeve

BENEFITS

Light weight

Re-Engraveable

Easy to Read LPI & BCM data

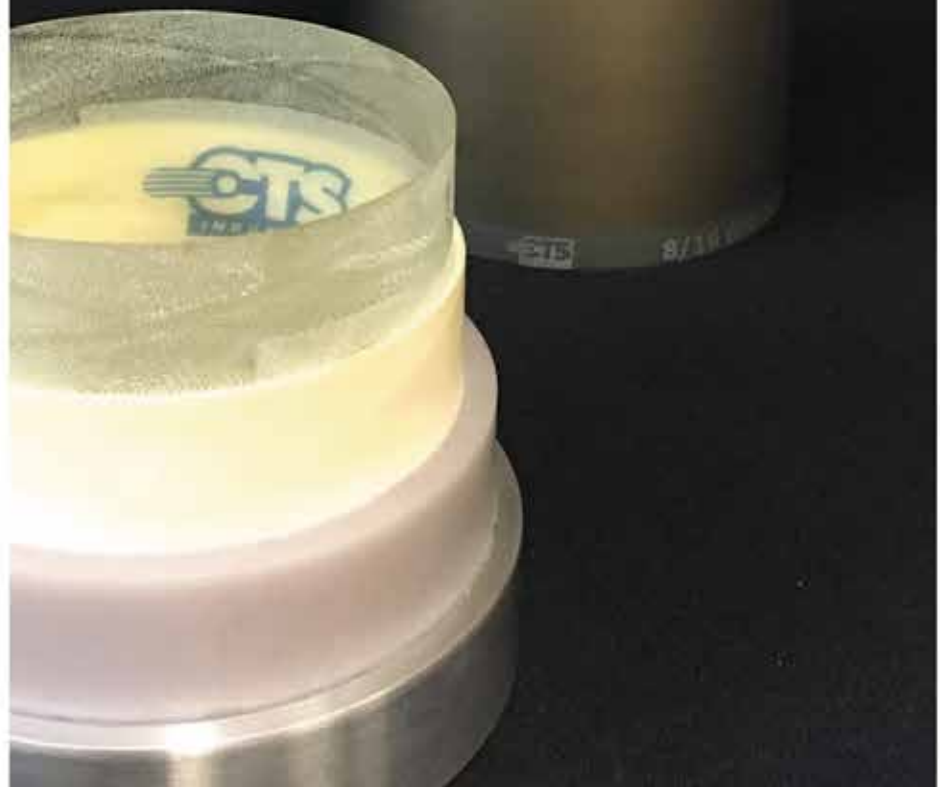
FEATURES

Aluminum Design

OEM Specification Quality

Engraving info inside and outside

PART™ Analysis

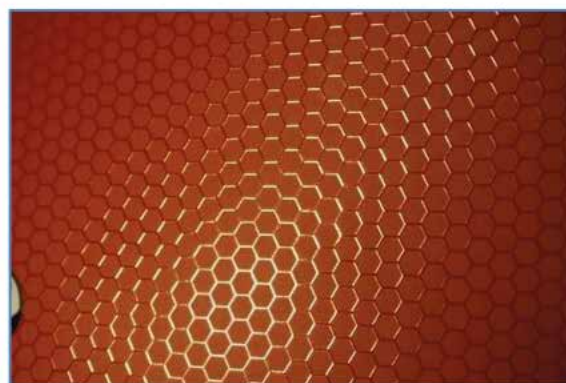
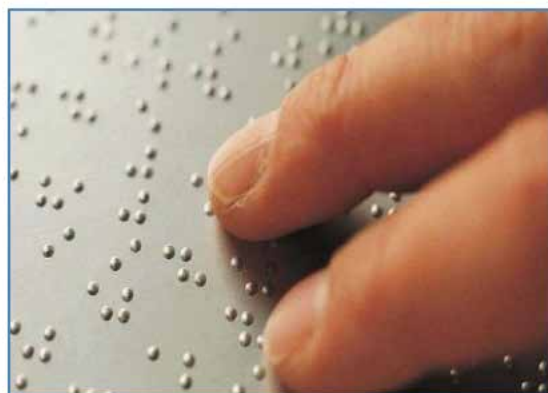




Tactile Varnish

A high-build varnish printed directly onto the substrate creating a distinctive tactile texture. It gives a gloss embossed effect to further enhance the product with a coextruded soft touch matte finish.

Images of a Tactile Varnish



Choosing the right anilox volume for your application

The volume of the anilox roller depends on the type of finish to be achieved.

Giant builds, such as brail print, require a large anilox volume (70 BCM) to accomplish a successful outcome (see brail image & 3D image above).

High builds to obtain an impressive eye-catching product (see hexagonal pattern image above), calls for engraving volumes of 40 to 50 BCM.

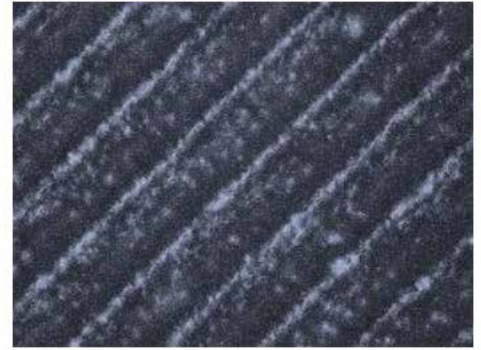
Medium Builds for matte finishes often use volumes in the 30-35 range (see folder image above).



Selecting the correct engraving pattern for tactile varnish

The characteristics of tactile varnish demand an engraving capable of picking up and transferring solution to the substrate. This is achieved with a Tri-Helical pattern engraving. The angled rows of lines work as a paddle wheel to pick up enough tactile varnish from its reservoir, and transfer to the screen.

The most common Tri Helical engraving LPI run between 70 and 120 lines, depending on the depth.



Questions commonly asked about tactile varnish anilox rollers

Will I go through a lot of doctor blades?

Considering the source, it is extremely likely you could use more than a normal printing process. Contact your doctor blade supplier to find out the best solution for your application.

How do I clean a tactile varnish anilox roller?

After use, utilize the recommended cleaning agent by the varnish supplier before storing away. Do not allow varnish to dry on anilox!

How long does it take to make an anilox roller for tactile varnish?

Although the anilox roller base is standard, the amount of ceramic coating needed to build the deep engraving can be as much as five times that of a conventionally engraved anilox roller. Once the ceramic coating depth is achieved, the anilox roller will move to the engraving department, where the Tri-Helical pattern is created. This generally takes about five to ten times longer than a typical engraving. Lead times for Tri-Helical engravings from CTS Industries runs 2-4 weeks.

How much does it cost for a tactile varnish anilox roller?

It's dependent on the build you want to achieve. Please contact us for more details.



Whether it's 10 inches or 100 inches, CTS Industries can re-engage your bases

We give the same attention to re-engage bases as we do new anilox bases. They must meet our stringent requirements before they carry the CTS Industries name and quality.

All bases will undergo our inspection process, from bearing surfaces, to face lengths, and diameters.

Our guarantee of quality is backed by our base manufacturing facility we've created, in order to support our engraving machines. This enables us to keep inventory, and control the turnaround time needed for just about any narrow web design. Need a base design change? No problem! Our facility is capable of designing anilox rollers for your printing application.

Ultraflow™ Engraving Volumes

PART™ Analysis

EZ View Pro™ Technology

Re-manufactured Base

► Re-Engraving

BENEFITS

Cost Effective

Available from 10" to 100"

Easy to Read LPI & BCM data

FEATURES

OEM Specification Quality

EZ View Pro™ Technology

PART™ Analysis

60° or 30° Engravings Available

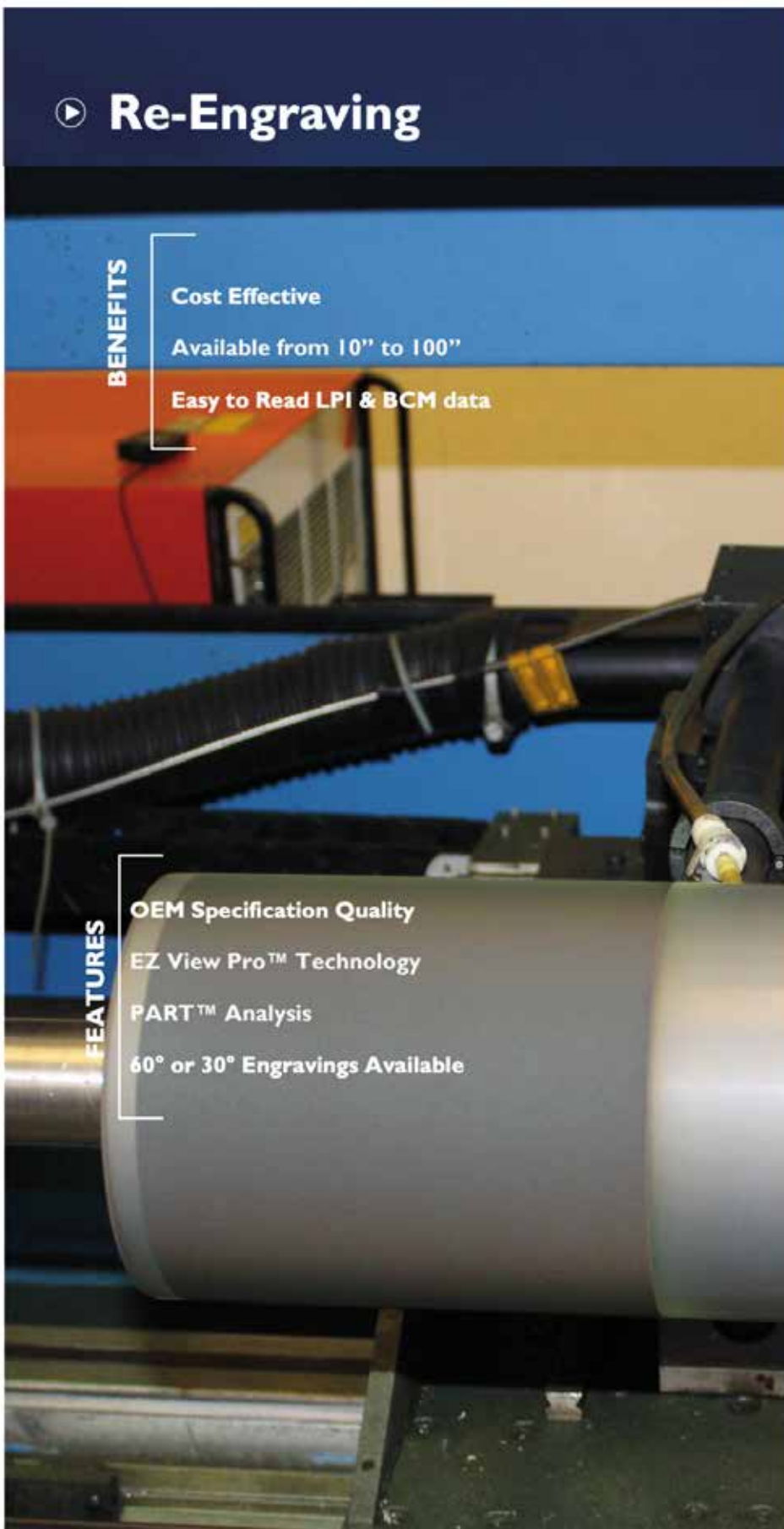


Tabla de volúmenes de celdas

Lineaje	100	120	140	165	180	200	220	240	250	260	280	300	330	360	400	440	500	550	600	650	700	800	900	1000	1200
Volúmen óptimo	18.4	15.2	12.7	10.0	9.7	8.7	7.8	7.3	6.9	6.6	6.0	5.5	5.0	4.6	4.0	3.6	3.2	2.9	2.6	2.3	2.2	1.9	1.5	1.2	1.0
Rango mínimo	15.0	12.5	10.5	8.5	8.0	7.8	6.3	6.0	5.7	5.0	5.1	4.5	4.0		3.0	2.9	2.5	2.4	2.0	1.8	1.8	1.7			
Rango recomendado	15.8	14.8	11.5	9.7	9.0	6.8	7.0	6.7	6.5	6.0	5.5	5.0	4.6	4.0	3.5	3.2	2.8	2.6	2.3	2.0	1.8	1.7			
	21.5	17.8	14.0	11.5	10.5	10.0	8.5	8.0	7.8	7.5	6.8	6.1	5.6	5.2	4.3	3.9	3.5	3.2	2.9	2.7	2.4	2.1	1.5	1.2	1.0
Rango máximo	21.5	17.8	15.0	12.5	11.4	10.5	9.2	8.5	8.2	8.0	7.2	6.5	6.2	6.0	4.8	4.3	3.8	3.4	3.1	3.0	2.4	2.1			

Todos los volúmenes están basados en una relación de profundidad-aperutra. Anguli de grabado a 60 grados y tintas de base agua. Es posible lograr volúmenes de celdas mayores a las que se enlistan. Para cualquier información relacionada con tintas y aplicaciones UV, lineajes menores a 100 LPI y mayores de 1200 LPI pueden ser cotizadas a nuestro departamento de servicio al cliente.

Contáctanos



55-1668-6096



55-7113-8164



Jetrix Soluciones Gráficas

www.jetrix.com.mx

Aplicaciones de Sólidos y Recubrimientos

Estos lineajes son recomendados para aplicaciones espesas de sólidos o recubrimientos, así como para laminados y aplicaciones especiales. Para este tipo de aplicación, nuestros rodillos Anilox cromados son altamente recomendados dadas sus altas características en transferencia de tinta.

Aplicaciones Generales

Se recomiendan estos lineajes para la impresión en general de flexo y tipografía de 10 puntos.

Beneficios del Grabado Laser Ultraflow

Las avanzadas características de nuestras celdas y angulos hacen que nuestro Anilox cerámico de 360 LPI con 4.6 BCM o un rango de volumen recomendado de 4.0 a 5.2 BCM, proporciona excelentes resultados en trabajos de impresión en general así como el trabajo de proceso. Este grabado en particular une muy bien el color y se recomienda para tipografía de 8 puntos y pantallas de 85 líneas. (Se debe usar cuchilla ó rodillo dosificador).

Tonos Continuos

El Anilox cerámico de 600 LPI se ha popularizado recientemente, para impresión de tonos contínuos. Reemplazando a los rodillos de 400 y 500 líneas este lineaje deposita los mismos volúmenes de 2.5 BCM. Los rodillos Anilox de 360 y 400 LPI siguen siendo muy populares, siendo el más común el de 360 LPI para impresiones en general, así como de tonos contínuos.

El Anilox de 400 LPI con volúmen de 4.0 BCM siguen siendo una excelente elección para pantallas de hasta 110 líneas, así como para algunas tintas UV.


Proceso de cuatro colores y aplicaciones muy finas

Disponemos de grabados de hasta 1200 líneas por pulgada y volúmenes desde 0.9 BCM o aperturas de celda de 20 micrones, con profundidades de 3 y 4 micrones. El Anilox de 600 LPI es el más popular con un volúmen de 2.6 BCM, pero el rodillo Anilox de 800 líneas esta siendo cada vez más solicitado. La regla importante que debemos recordar es: A mayor fineza de la pantalla del rollo Anilox y menor el volúmen, se requiere mayor demanda de la prensa, tinta y papel, sin mencionar el trabajo del arte y del operador.



Innovación Tecnológica
y de Vanguardia

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