



## What's inside **your** offset coating station? **Profits** *or* **Problems?**

*Welcome to the Next Generation Offset Coating & Lacquer Transfer Cylinders*

**Start your own offset coating quality revolution**

- *Boost your Profitability*
- *Achieve Smooth and Consistent Coating Results*
- *Plug & Play Convenience*
- *Lightweight Roll Changes*
- *ReadyRoll Prompt In-Stock Delivery*



# Solutions for Offset Coating

Offset professionals know that coatings and varnishes can bring a printed piece to life- or ruin it.

Orange peel and pinholing can diminish even the finest, tightest-register multi-color job. But most printers don't realize they have options to boost quality, predictability and profitability in their lacquer-transfer anilox cylinders.

With Apex, now the choice is yours. Tested, approved and recommended by leading press manufacturers, our **UltraCell** and revolutionary **GTT** coating cylinders deliver quality, reliability and profitability for all of your coating requirements. Say good-bye to nagging printability, reliability and cleaning problems. Say hello to Apex **UltraCell** and **GTT**.

BETTER

## CONVENTIONAL **UltraCell** Anilox Rolls

Apex **UltraCell** conventional anilox coating cylinders bring precision and durability to your offset coating applications. With the standard engravings you've always used, **UltraCell** gives you a good coating transfer, longer roll-life, safer roll changes - and faster delivery.

FEATURES

**CERAMIC** Homogenous and compact ceramic with a porosity less than 1% without using any sealer and post treatment.

**ULTRAMELT** All conventional anilox rolls are engraved with a pulse laser, using the UltraMelt technology, a method that melts the ceramic after engraving, resulting in an extremely smooth ceramic layer.

**OPTIMAL COATING RELEASE** The **UltraMelt** laser process melts the ceramic after the cell is engraved - thus minimizing "recast" or "slag" - and delivers smooth cell walls and land areas for optimal coating replenishment.

**GUARANTEED COATING RELEASE** Using high-tech laser technology in combination with digital volume measurement, a guaranteed coating release is achieved.

BENEFITS

**ONE-STOP SHOP FOR ALL YOUR ANILOX SPECIFICATIONS** Apex produces all anilox screen / metering profile specifications.



Conventional Anilox Smoothness

Apex conventional coating rolls are available with all standard laser-engraving geometries.

Micro-photographs compare lacquer surface on hexagonal cell anilox and **GTT<sup>OFFSET</sup>**. While using Apex rolls, **GTT** maximizes consistent quality and minimizes other common coating complaints.

## All Apex UltraCell and GTT Coating rolls share these common benefits:

**LIGHTWEIGHT** Apex coating cylinders are lighter in weight than other rolls. Our strong, lightweight aluminium-core base (produced according to OEM standards) enables safer, faster roll changes and handling.

**PLUG & PLAY PERFORMANCE** Right out of the box, your roll is press-ready, including bearings, tooling and mounting.

**LOW LIFE-CYCLE COSTS** Ultra-durable wear-resistant ceramic layer and unique laser-engraving processes keep rolls on-press longer.

**FAST DELIVERY** Our robust **ReadyRoll** program ensures that the most frequently-used roll sizes are always in-stock, awaiting your order.

**CONSISTENT APPLICATION OF ALL COATING TYPES** UV, Aqueous (water-based), Gloss, Matt, Barrier, Drip-Off, Blister, Soft-Touch, etc.

BEST

# ADVANCED GTT<sup>OFFSET</sup> Metering Rolls

Apex GTT coating cylinders are nothing short of a revolution in quality lacquer transfer.



GTT RangeFinder GTT-TO-ANILOX PROFILE CONVERSION	
UltraCell Conventional Anilox Profile Positive, Tri-Helical, Hexagon	GTT <sup>OFFSET</sup> Open Slalom Channel Profile
9 - 11 Grams cm <sup>3</sup> /m <sup>2</sup>	Size "S"
12 - 14 Grams cm <sup>3</sup> /m <sup>2</sup>	Size "M"
15 - 16 Grams cm <sup>3</sup> /m <sup>2</sup>	Size "L"
17 - 20 Grams cm <sup>3</sup> /m <sup>2</sup>	Size "XL"

### OPEN SLALOM CHANNEL GEOMETRY

Sets your coating free. Enjoy a smoother lacquer surface, increased gloss value and less orange-peel effect at the same time.

### CONSTANT BEAM LASER ENGRAVING

Ablating consistent and precise channel. It is a new, proven and patented technology (EP2121339. US and foreign patents pending).

### SUPER-HARD NON-WETTING HYBRID CERAMIC

trounces porosity.

### MAXIMIZE YOUR VISUAL COATING RESULTS

Enjoy a smoother lacquer surface, increased gloss value and less orange-peel effect at the same time.

### BOOST YOUR PROFITABILITY

by suffering less from micro-foaming, have longer print cycles without cleaning downtime and benefit from a more efficient lacquer usage.

### EASY GTT PROFILE SELECTION

by using the conversion table you can easily select the profile needed for your application.

FEATURES

BENEFITS





## Four secrets every offset printer should know about Apex Coating Rolls.

### 1 Will Apex coating cylinders work in my press?

Whether you choose for our worldclass anilox rolls (hexagonal, trihelical, positive, elongated) or its successor **GTT** metering rolls, you will receive quality, reliability, durability and profitability for all your coating applications. Both types are the product of years of research to engineer the most effective coating result. We work together with leading press manufacturers.

### 2 What is GTT? Why is it better than conventional anilox?

Virtually all Offset printers today rely on second-generation anilox surfaces made up of closed-cell geometry - basically, holes - into which coating is doctored. Problem is, this geometry can create turbulence, foaming and uneven coating release. Results? Disturbed laydown and pinholing among others. **GTT's** new Open Slalom Ink Channel geometry instead allows coating to flow calmly and transfer precisely - with stunning results.

### 3 What are GTT "sizes"? Why are there only four?

Now you can stop worrying about the sheer multitude of possible line/volume anilox combinations needed to run your jobs. Since each **GTT** "size" covers the range of two or more conventional aniloxes, most printers only use one **GTT** size to perform more coating tasks. So instead of calculating complex BCM/LPI, L/cm and cm<sup>3</sup>/m<sup>2</sup> formulae, just analyse the type of job you're using and select the appropriate **GTT** size.

### 4 What are the Apex advantages?

- Approved of by all leading press manufacturers
- Lightweight plug & play convenience
- Low life-cycle costs
- Fast delivery
- Smoother & consistent application of all engraving types

**ABOUT APEX** Headquartered in the Netherlands, Apex Group of Companies is the world's leading manufacturer of precision coating- and ink-transfer technology products including anilox and metering rolls for offset, label, flexible packaging, corrugated and industrial coating applications.

Apex products are tested, approved and deployed by all leading press manufacturers in the offset and flexographic industries. While reliability, durability and precision are hallmarks of all Apex products, continual innovation is a core value within the global Apex organization. Successful research, development

and manufacture of new products requires discipline and motivation. Together with printing industry partners, Apex delivers powerful competitive advantages to our customers. Apex products are the Measure of Quality. With manufacturing and sales operations on six continents in more than 80 countries, Apex provides added value by supplying customers with end-to-end anilox or GTT solutions including measurement devices, cleaning and maintenance products, and educational/useand-care seminars. Someone from Apex is always close by to personally attend to customer needs. Ask your local sales person for more information or contact the Apex Offset department at [offset@apex-europe.com](mailto:offset@apex-europe.com)



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