

Anilox Roller

Coating Roller

Lamination Roller



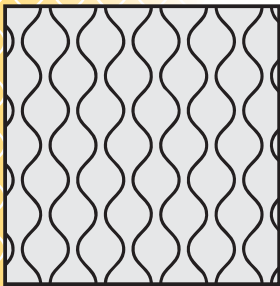
Today **Shilp** offers world's most advanced and wide range of technologies available all under one roof.

The desired quality levels of coating can be achieved, if the steel roller is accurate in terms of its dimensions with adequate wall thickness in the roller and is dynamically balanced.

Shilp has technical experts who produce rollers to stringent quality specifications.

Shilp has state of the art electroplating tanks for even deposition of copper and chrome under controlled conditions, and precision polishing machines to give desired finish for specific applications.

Shilp can choose from chemical etching, mechanical engraving, electro-mechanical engraving, and the Digital laser technologies, to give a wide range of engraving parameters suitable for varied applications with chrome plated rollers, for various industries...

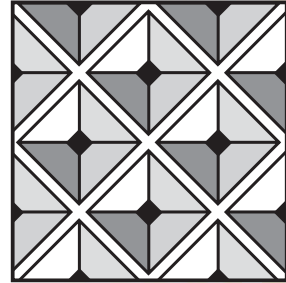


CELL WITH CHANNEL

Channel linked cells enables the Liquid Inks, Lacquer, Chemical Solutions, Adhesive Coatings to evenly channelize and lay evenly on the substrate. For even and precise deposition these cell shapes are recommended. The coating applications range from 0.5 to 4.0 gsm.

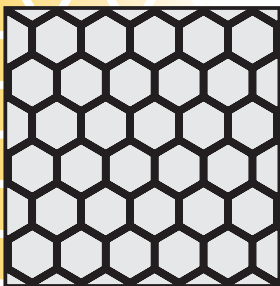
TRUNCATED PYRAMID CELL

Truncated pyramid shaped cells have flat bottom. They are easy to clean. For solids and heavy line application in flexography these cell shapes are widely used. Our range of screens can offer uniform solid deposition and all round specification for all types of printing for flexography and is ideal for stationery and corrugated market. These type of cells are suitable for applications of 5 gsm & above.



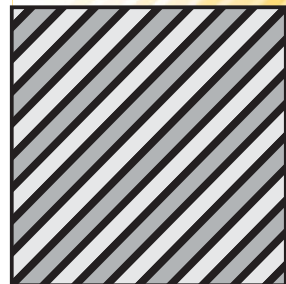
HEXAGONAL CELL

The hexagonal cells are relatively shallow but deliver more amount of ink, for same screen count as compared to other cell shapes. They are easy to clean. This geometry helps to have smoother and cleaner solid print images. These cells are also preferable for coating, lamination and speciality printing.



TRIHELICAL PATTERN

A Trihelical engraving is recommended for water based coating application because of its free flowing channels and flooding effect as a result of this design. They are primarily used in coating applications of viscous fluids. This screen is engraved as a continuous line around the roller. Its open structure allows for excellent release when using viscous solutions at high volumes. It is used widely in adhesive and lacquer applications.



LINE SCREEN SELECTION (CELLS PER LINEAR INCH)

The Anilox screen needed to properly support your printing dot, the 6:1 ratio of Anilox line screen to plate screen using a 2% dot as the minimum is the best rule of thumb. This ratio will prevent the smallest dot (usually 2%) from entering inside the cell of an Anilox, preventing dirty printing in the highlights. The following table can be used as a reference guide to select the proper Anilox screen count for a particular process plate screen.

Application	Suggested line screen	Approximate Anilox volume
Heavy line and solids	180-330	9-4 BCM
Line and type	200-400	8-3 BCM
Vignettes	360-500	3.6-2.8 BCM
Process	500-1200	2.8-0.9 BCM

Cells per square inch count.
For 45 degrees: line screen X line screen = cells per square inch e.g. 500 lines 45 degree Anilox roll - 500 x 500 = 250,000 cells per square inch
For 60 and 30 degrees: (line screen x line screen) x 1.15 = cells per square inch, e.g. 500 x 500 x 1.15 = 287500 cells per square inch

Lower line screen Anilox rollers have higher volume and carry larger amount of ink or thicker ink films. These thick ink films do not produce the graphic quality necessary for high end process work.

High line screen Anilox (800-1200) is not capable of laying down enough ink for a block solid job.

The printer should choose the best volume and line screen combination for their Anilox roller to meet the needs of specific job.

A banded roller containing actual bands of different line screens and volume combination can be used to standardize with respect to the strength of the ink.

KEEPING ANILOX ROLLERS CLEAN

- Wipe your Anilox rollers clean with the appropriate cleaner as soon as the roller is taken out of service. Allowing the ink to dry in the cells makes it increasing difficult to remove. This can be especially true with water-based ink to which a cross-linking catalyst is added.
- Keep the rollers turning whenever there is ink in the system. Most presses are equipped with idling motors to accomplish this.
- Check for and guard against the movement of air over your anilox. Keep them covered.

AN ARRAY OF EXCELLENCE TO CHOOSE FROM

	Fixed Shaft		Hollow	
	mm	mm	mm	mm
Electro-mechanical Engraved Rollers				
	maximum	minimum	maximum	minimum
roller dia	370	101	400	101
roller face length	2300	350	2300	350
over all length with shaft	2550	500	NA	NA
Laser Engraved Rollers				
	maximum	minimum	maximum	minimum
roller dia	500	50	500	50
roller face length	2300	100	2300	100
over all length with shaft	2550	200	NA	NA

	Fixed Shaft		Hollow	
	mm	mm	mm	mm
Mechanically Engraved Rollers				
	maximum	minimum	maximum	minimum
roller dia	370	101	400	101
roller face length	2300	350	2300	350
over all length with shaft	2550	500	NA	NA
Chemically Etched Rollers				
	maximum	minimum	maximum	minimum
roller dia	300	100	300	100
roller face length	1500	200	1500	200
over all length with shaft	1800	250	NA	NA



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