

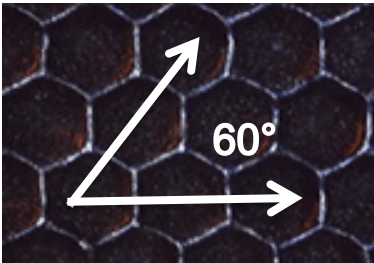


MAIN PARAMETERS OF LASER ENGRAVED CERAMIC ANILOX ROLLERS

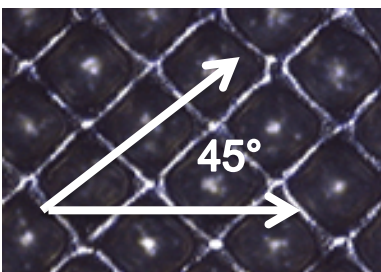
ENGRAVING ANGLE O PATTERN

This refers to the special orientation of cells in subsequent rows of engraving as referenced from the horizontal axis of the roll:

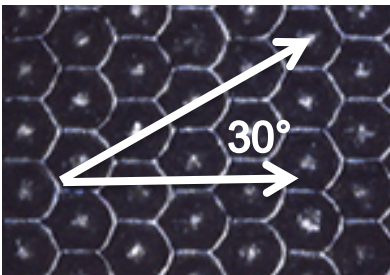
STANDARD PATTERNS:



60° hexagonal pattern

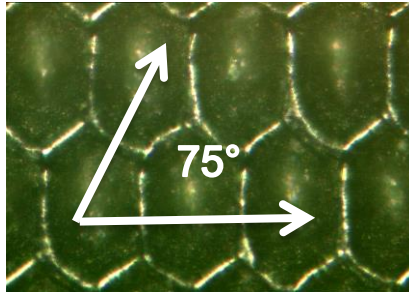


45° diamond pattern

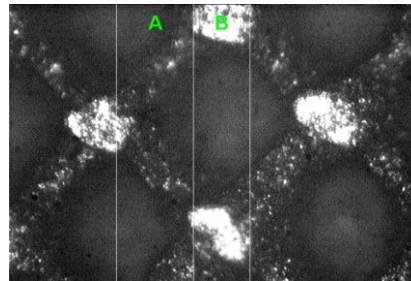


30° hexagonal pattern

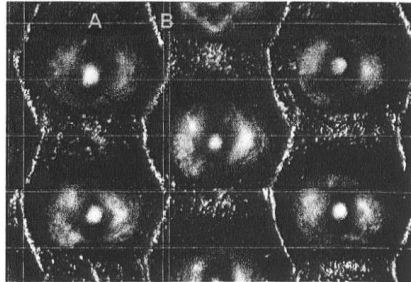
SPECIAL PATTERNS:



Maxflo- 75° hex. elongated cell pattern

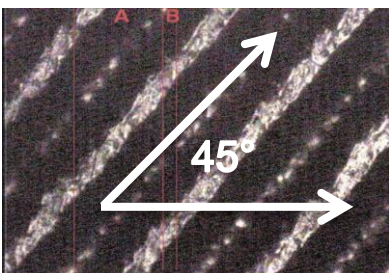


Twinflo- crossed helical engraving at 45°

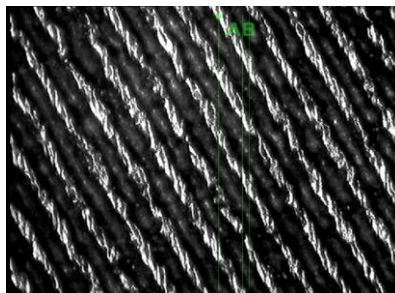


Easyflo: Channel engraving at 30°

TRIHELICAL ENGRAVING: Screen engraved as a continuous line around the roller at various angles from 30 to 60°.



Trihelical engraving at 45°



Trihelical engraving at 60°



LINE COUNT

Line count or screen count refers to the number of cells per lineal inch/centimetre as measured along the engraving angle (because that is where the cells line up in closest proximity to each other).

L/cm stands for lines per centimetre

L/in stands for lines per inch, this refers to the number of cells per lineal inch

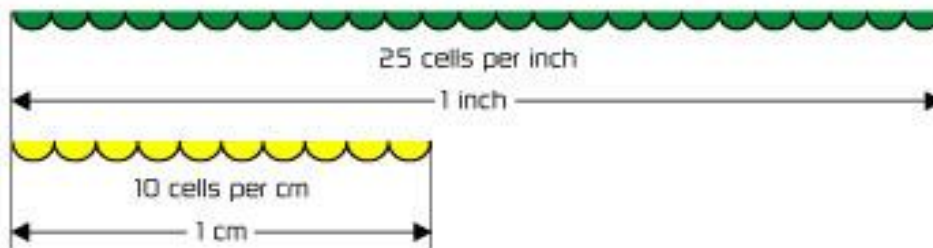
L/cm is used in Europe while North American OEMs use L/in.

To convert LPC in to LPI you must multiply by 2.54

$$1 \text{ LPC} = 2.54 \text{ LPI}$$

Example: $100 \text{ L/cm} \times 2.54 = 254 \text{ LPI}$

Line count is the # of cell per lineal inch or centimetre



CELL VOLUME

Cell volume is the ink carrying capacity of a cell multiplied by the number of cells in a given square inch/meter of roll surface.

The common unit of measurement in North America is BCM/in² or billion cubic microns per square inch

In Europe the unit more commonly used is cm³/m² (cubic centimetres per square meter)

$$1 \text{ BCM/sq in} = 1.55 \text{ cm}^3/\text{m}^2$$

Example: $10 \text{ BCM} \times 1.55 = 15.5 \text{ cm}^3/\text{m}^2$

Volume is determined by the depth, diameter, and profile of the cell

CELL DEPTH

Cell depth is usually measured in microns.

It can be also measured in thousands of an inch

$$1 \text{ INCH} = 25400 \text{ microns}$$

Example: $0.003" \times 25400 \text{ microns} = 76.2 \text{ microns}$