ANILOX SCREEN AND VOLUME REFERENCE

HG 60° Cell

HV Extended Cell



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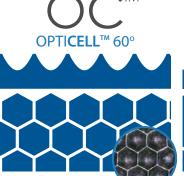
ANILOX SCREEN AND VOLUME REFERENCE RECOMMENDED INK VOLUME RANGES (BCM/in²)

VPE OF WORK OC MU HV HGH GRAPHIC HDD* HIGH GRAPHIC MN=MAX MN=MAX MN=MAX MN=MAX MN=MAX MN=MAX 65 34.0 - 42.0 MN=MAX MN=MAX MN=MAX MN=MAX 80 22.0 - 31.5 Image: Comparison of the state o		SCREEN RECOMMENDED INK VOLOME RANGES (DCM/III)				
Mile Mile Mile Max Mile Max Mile Max Mile Max 65 34.0 - 42.0 Mile Max Mile Max Mile Max 80 22.0 - 31.5 Mile Max Mile Max Mile Max 100 17.0 - 21.0 18.6 - 35.8 Mile Max Mile Max 1100 17.0 - 21.0 18.6 - 35.8 Mile Max Mile Max 1100 15.5 - 18.0 16.9 - 30.2 Mile Max Mile Max 1100 15.5 - 18.0 16.9 - 30.2 Mile Max Mile Max 1100 13.0 - 16.5 14.3 - 26.6 Mile Max Mile Max 1100 13.0 - 16.5 14.3 - 26.6 Mile Max Mile Max 1000 10.9 - 17.5 12.1 - 18.3 Mile Max Mile Max 200 8.0 - 9.5 8.7 - 14.2 9.5 - 14.5 Mile Max 210 7.0 - 8.5 7.7 - 13.0 8.9 - 13.5 Mile Max 220 7.0 - 8.5 7.7 - 8.8 6.1 - 9.3 9.3 - 12.8 300 5.3 - 5.8 5.7 - 8.8 6.5		LP		HV^{m}	HG™	HD™
65 34.0 42.0 A A A A 80 22.0 31.5 -	WORK	IMPERIAL*	OPTI CELL ™	HIGH VOLUME	HIGH GRAPHIC	HIGH DEFINITION
80 22.0 31.5 Image: Signature Signate Signature Signature Signature Signature Signate Signat				MIN — MAX	MIN — MAX	MIN — MAX
No 17.0 - 21.0 18.6 - 35.8						
No 120 15.5 - 18.0 16.9 - 30.2 Image: Constraint of the state of the s		80	22.0 – 31.5			
200 8.0 - 9.5 8.7 - 14.2 9.5 - 14.5 220 7.0 - 8.5 7.7 - 13.0 8.9 - 13.5 250 6.8 - 7.5 7.4 - 12.1 8.3 - 12.6 280 6.3 - 6.9 6.7 - 10.5 7.2 - 11.0 10.0 - 13.8 300 5.3 - 5.8 5.7 - 8.8 6.1 - 9.3 9.3 - 12.4 360 3.9 - 5.0 4.8 - 7.2 4.9 - 7.6 8.0 - 11.1 400 3.8 - 4.5 4.2 - 6.6 4.5 - 6.9 6.7 - 9.2 440 4.0 - 6.3 4.3 - 6.6 6.0 - 8.4 500 3.2 - 4.8 3.2 - 5.0 4.8 - 6.2 660 1.9 - 3.9 2.5 - 4.0 3.9 - 5.6 700 1.5 - 3.2 2.1 - 3.4 3.0 - 4.2 900 1.3 - 2.3 1.3 - 2.4 2.5 <th>DS</th> <th>100</th> <th>17.0 – 21.0</th> <th>18.6 – 35.8</th> <th></th> <th></th>	DS	100	17.0 – 21.0	18.6 – 35.8		
200 8.0 - 9.5 8.7 - 14.2 9.5 - 14.5 220 7.0 - 8.5 7.7 - 13.0 8.9 - 13.5 250 6.8 - 7.5 7.4 - 12.1 8.3 - 12.6 280 6.3 - 6.9 6.7 - 10.5 7.2 - 11.0 10.0 - 13.8 300 5.3 - 5.8 5.7 - 8.8 6.1 - 9.3 9.3 - 12.4 360 3.9 - 5.0 4.8 - 7.2 4.9 - 7.6 8.0 - 11.1 400 3.8 - 4.5 4.2 - 6.6 4.5 - 6.9 6.7 - 9.2 440 4.0 - 6.3 4.3 - 6.6 6.0 - 8.4 500 3.2 - 4.8 3.2 - 5.0 4.8 - 6.2 660 1.9 - 3.9 2.5 - 4.0 3.9 - 5.6 700 1.5 - 3.2 2.1 - 3.4 3.0 - 4.2 900 1.3 - 2.3 1.3 - 2.4 2.5 <th>S, SOLI</th> <th>120</th> <th>15.5 – 18.0</th> <th>16.9 – 30.2</th> <th></th> <th></th>	S, SOLI	120	15.5 – 18.0	16.9 – 30.2		
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1100 1.0 - 1.9 1.2 - 2.3 2.3 - 3.2 1200 0.9 - 1.7 1.1 - 1.9 2.1 - 2.8		900		1.3 – 2.3	1.8 – 3.0	2.8 – 3.8
1200 0.9 – 1.7 1.1 – 1.9 2.1 – 2.8		1000		1.1 – 2.1	1.3 – 2.4	2.5 – 3.5
1200 0.9 - 1.7 1.1 - 1.9 2.1 - 2.8 1300 0.8 - 16 10 - 17 1.8 - 25	SS 🕇	1100		1.0 – 1.9	1.2 – 2.3	2.3 – 3.2
1300 08 - 16 10 - 17 18 - 25	E) O	1200		0.9 – 1.7	1.1 – 1.9	2.1 – 2.8
	Р	1300		0.8 – 1.6	1.0 – 1.7	1.8 – 2.5
1400 0.8 - 1.5 0.9 - 1.6 1.6 - 2.2		1400		0.8 – 1.5	0.9 – 1.6	1.6 – 2.2
1500 0.7 - 1.4 0.8 - 1.5 1.4 - 2.0		1500		0.7 – 1.4	0.8 – 1.5	1.4 – 2.0
1600 0.7 – 1.4 1.2 – 1.8		1600			0.7 – 1.4	1.2 – 1.8
1800 0.7 – 1.3 1.1 – 1.7		1800			0.7 – 1.3	1.1 – 1.7
▼ 2000 0.7 - 1.2 1.0 - 1.6	¥	2000			0.7 – 1.2	1.0 – 1.6



*Imperial - Lines Per Square Inch (LPI)

For LPCM Screen Chart, please scan QR code or visit: arcinternational.com/screencharts



ΓM

- Original single-hit laser technology
- Parabolic beam profile
- Deeper cells with lower cell counts to achieve volume
- · Thermally treated cells to extend roll life
- Cost effective
- Good for all printing and coating applications
- Good performance for all markets from corrugated, carton, paper and film substrates
- 65-400 cells per inch range
- 3.8-42 BCM volume range

- Original single-hit laser technology
- "U" shaped cell profile
- Shallower cells with higher cell counts to achieve volumes

HIGH VOLUME 70°

- Custom extended 70 degree cell design
- Improved plate and doctor blade support
- Long roll life
- Improved ink circulation
- Improved performance for all markets from corrugated, carton, paper and film substrates
- 100-1500 cells per inch
- 0.7-35.8 BCM volume range

- Multi-hit fiber optic laser technology
- "U" shaped cell profile
- Custom bitmap cell design
- Deeper cell profiles
- Higher cell counts per volume specification
- Excellent support for High Graphics process and combination plate applications
- Improved performance for all markets from carton to paper and film substrates

HIGH GRAPHIC 60°

- 150-2000 cells per inch
- 0.7-19.4 BCM volume range

- Multi-hit fiber optic laser technology
- "U" shaped cell profile
- Custom bitmap cell design
- Longer cell shape
- Shallower cells to achieve volumes

HIGH DEFINITION 75°

- Higher cell counts per volume specification
- Improved ink circulation
- Improved doctor blade support
- Ultimate support for High Definition process and combination plate applications
- Improved performance for all markets from carton to paper and film substrates
- 280-2000 cells per inch
 - 1.0-13.8 BCM volume range

OPTIMIZING ROLLERS FOR PEAK PRINT QUALITY

Today's typical anilox roller is laser engraved with microscopic "ink wells" called cells. The shape, size and depth of these cells impact how ink is transferred from the roller to the plate. By selecting the optimum range for the job within these key specs you can greatly enhance your efficiency and quality. Your ARC representative will be happy to assist you in determining the condition and best application of your roller inventory and make recommendations for improved print quality and process efficiency.

CELL

COUNT

CELL Volume

Measured in billions of cubic microns (BCM) per square inch, the volume of ink which a roller can hold affects

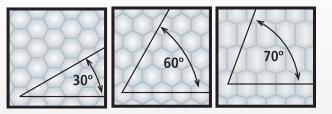
the density, crispness and overall tonal range possible for the image. Lower anilox roll volumes transfer a thinner film of ink which enables more tonal range, best image quality and greater efficiency. However color density is reduced due to the thinness of the layer of ink. As roller volumes increase you get higher density,

but you'll also see more dot gain and fill-in of type and lines.

CELL Shape

Closed cell technology gives the press operator the optimum control of ink film to the plate. Equal-

sided hex (60°) or (30°) cells have been the industry standard. New laser technology now makes more open cell designs possible, such as 70° hex and 30° hex channeled shapes. These geometries allow ink to better circulate and refresh in the cells and allow for higher cell counts at similar volumes.



This refers to the number of cell lines per inch (LPI) along the engraving axis.

control of the ink

film more difficult.

Higher cell counts

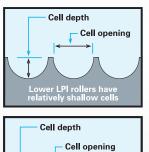
give you greater

ink control and

more consistent

ink film transfer.

Low LPI cell counts have a shallower cell depth compared to the opening at the top of the cell, making



Cell depth Cell opening Cell opening Higher LPI rollers have higher depth-to-opening ratios

ROLL AUDITS MADE EASY

ARC International can provide you with the materials and instructions for auditing your existing inventory of anilox rollers. This easy-to-follow Roll Audit Instruction manual gives you step-by-step instructions for auditing your rollers and preparing replicator tape samples for analysis. All roller audits are fully evaluated by highly qualified lab technicians using Opticheck[™] scopes and 3D interferometry devices. Your full report will be sent to you with an explanation of the results by an ARC team member.



PROARC[™] c l e a n e r

ECO-FRIENDLY CLEANER FOR ALL TYPES OF INKS

Eco-friendly formula for anilox rollers and sleeves that will dissolve water-based, UV, E-Bean, solvent based inks, laminating adhesives, over-coat varnishes and other coatings safely, from low- to high-line screens.



A VERSATILE CLEANING SOLUTION FOR ANILOX ROLLS AND SLEEVES THAT WORKS IN LESS THAN 15 MINUTES.

ProArc is a very fast, effective citrus-based formula and is safe to use on anilox/gravures cylinders.



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