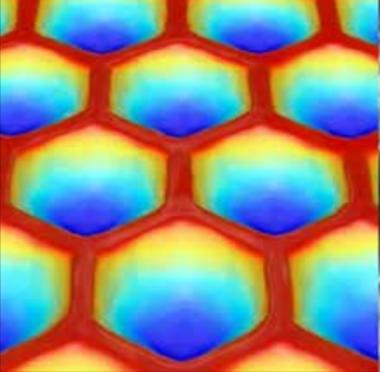
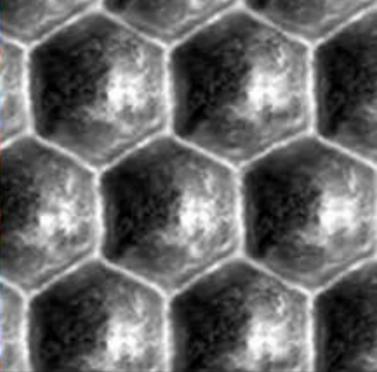
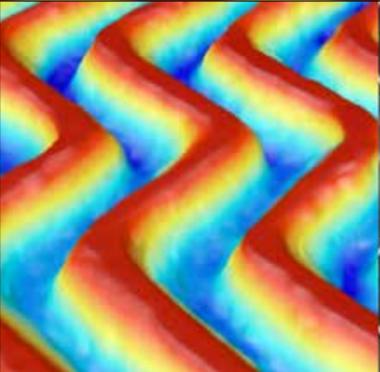
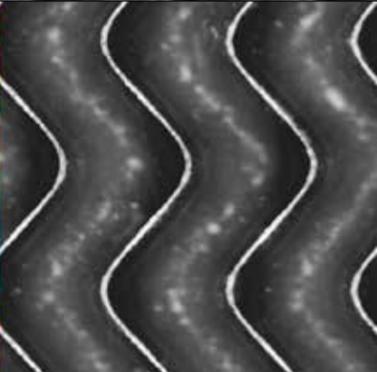
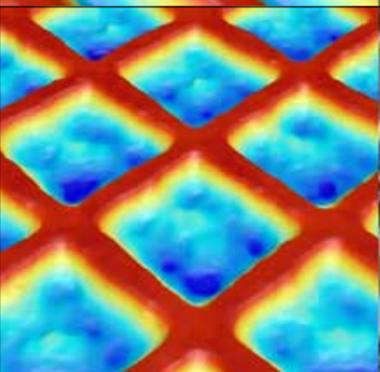
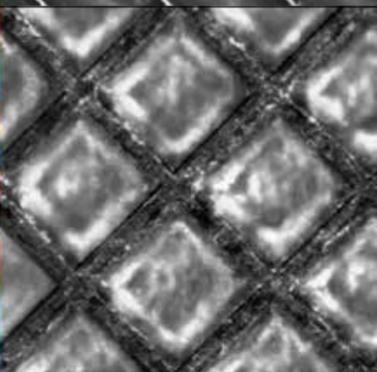
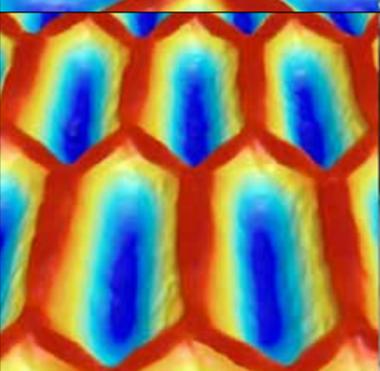
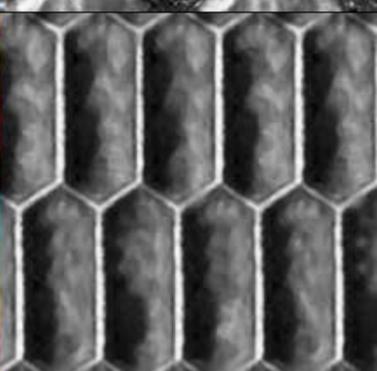
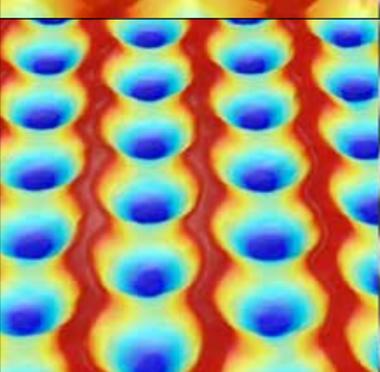
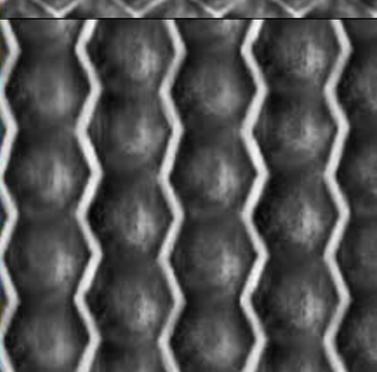
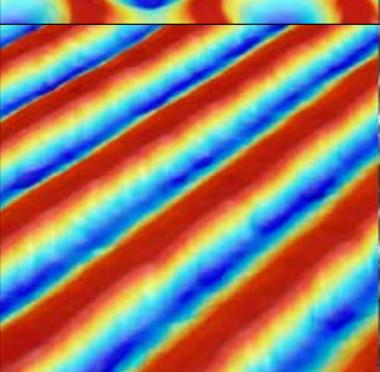
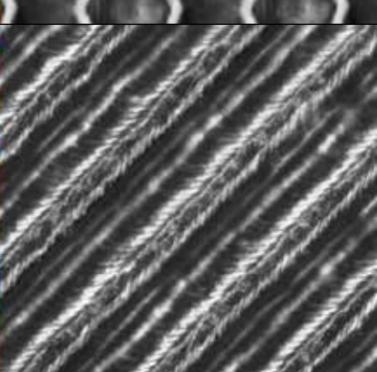
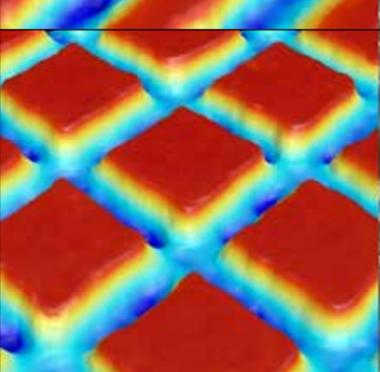
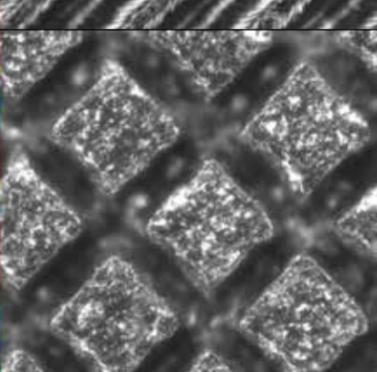


	CELL ENGRAVINGS		IDENTIFIERS	APPLICATIONS	ADVANTAGES	DISADVANTAGES
HEXAGONAL			<ul style="list-style-type: none"> • Six uniform sides • 60° or 30° angle • Honeycomb pattern • One of the most common cell engravings • LPI range of 120-1500 	<ul style="list-style-type: none"> • Best used in solvent-based flexible packaging applications • Performs well with thinner, less viscous inks • Ideal in narrow web and wide web printing applications 	<ul style="list-style-type: none"> • Good dot support • Maximizes cells per inch • Does not clash with plate angle of CMYK applications • Suitable for a wide range of applications 	<ul style="list-style-type: none"> • Restricted printing range • Inconsistent transfer from roll to roll • Weakened walls when extreme specs are required • Requires more cleaning than other cell shapes
GTT 2.0 OPEN SLALOM CHANNEL			<ul style="list-style-type: none"> • Smooth, consistent open slalom channel geometry • Resembles the waves of an "S" 	<ul style="list-style-type: none"> • Ideal for ECG printing, UV inks, water-based inks and value lacquers 	<ul style="list-style-type: none"> • Smoother ink transfers • Better solids • Easier cleaning • Maximum ink mileage • Reduction in print defects • Reduction in liquid turbulence eliminates ink spitting & foaming • Does not clash with screen angles CMYK • Improves consistency & makes ECG printing easier to implement 	<ul style="list-style-type: none"> • The change from a historically accepted technology to a new, more advanced one requires customers to have a better understanding of quality & cost saving advantages • Higher cost • Patented technology only available through Apex International
QUAD			<ul style="list-style-type: none"> • Four-wall engraving • 90° uniform angles • Resembles a diamond or square • Often called a 45° engraving • One of the original anilox engraving geometry 	<ul style="list-style-type: none"> • Ideal for rough printing and coating environments 	<ul style="list-style-type: none"> • Larger cell walls for structural support • Available through all anilox suppliers 	<ul style="list-style-type: none"> • Restricted printing range • Inconsistent transfer from roll to roll • Clashes with CMYK standard plate angles can cause ink spitting, ghosting & foaming • Not suited for detailed process work
LONGCELL			<ul style="list-style-type: none"> • Elongated version of the traditional hex 60° cell • Six walls with two elongated sides • Introduced to the industry in early 2000s 	<ul style="list-style-type: none"> • Ideal for corrugated block-style print applications and coatings 	<ul style="list-style-type: none"> • Increased cell volume • Increased ink transfer for solid block areas 	<ul style="list-style-type: none"> • Inconsistent transfer from roll to roll • Elongated walls weaken when extreme specs are required • Clashes with plate screen angles can cause ink spitting, ghosting & foaming, misting • No clear industry fixed angle
CHANNEL			<ul style="list-style-type: none"> • Cell walls run from top to bottom • Ink flows freely throughout the roll 	<ul style="list-style-type: none"> • Ideal for thick, viscous inks & coatings in label applications 	<ul style="list-style-type: none"> • Reduced cell wall surface area • Increased ink transfer • Reduced ink spitting & foaming • Works with most process work while minimizing print defects 	<ul style="list-style-type: none"> • Print dots are less supported • Dirty print around areas of fine text & edges • Inconsistent transfer performance due to the loss of ink density • Ink transfer and color density can tend to reduce as press speeds are increased • Clashes with angles CMYK
TRIHEDICAL			<ul style="list-style-type: none"> • Straight channel across the roll • Resembles a line • Made of deep, uniform channels • Maximum of 80 lpcm/ 30LPI 	<ul style="list-style-type: none"> • Ideal for thick coating, flood coats, protective varnishes, & lacquers 	<ul style="list-style-type: none"> • Incredible volume possibilities • Strong wall surface • Maximum transfer volume onto print plates or directly to substrate • Highly durable 	<ul style="list-style-type: none"> • Not suited for any image or design printing in flexo, label or corrugated • Lose of volume at high press speeds • Sensitive to high pressure settings • Variable ink transfer performance • Commonly has coating aeration
POSITIVE			<ul style="list-style-type: none"> • Raised engraving • Volume is created in the valleys between cells • Resembles the inverted shape of hex 60° or quad 45° cell engravings 	<ul style="list-style-type: none"> • Ideal for thick, coarse coatings • Created for glue, starch, & silicone metering • 45° positive works well in silicone & cold seal applications 	<ul style="list-style-type: none"> • Very open engraving structure • Delivers high volume across the roll • Reduced risk of clogging & foaming • Requires less cleaning • Highly durable 	<ul style="list-style-type: none"> • Lose of volume at high press speeds • Sensitive to high pressure settings • Doesn't perform well in image & process work • Increased wear when used with doctor blade chambers, aggressive coatings & lacquers