

Silk screen knowledge

Screen mesh count	Fewer meshes	Suitable for printing cloth, paper, ceramic plastic embryo and other materials that will absorb water. Because the mesh size is less, so holes are larger, the speed of the ink is faster, so the thicker ink coating requires less mesh.
	More meshes	Printing of plastics, metals and other texts 300 meshes. Meshes large, the holes are small so slower low speed.
Material of mesh	Nylon	More flexible and soft, it's suitable for print materials with high and low amplitudes, and the squeegee will not be deformed by pressure of the screen, nylon screen is difficult to cause screen scratches.
	Tedron	Less flexible and harder, suitable for materials that require more accurate or printing position accuracy.
Silk color	Yellow	During exposure ultraviolet light is used, and the color has mixed reflection of cyan and red hue. That is black lacks yellow hue, but when exposed to ultraviolet light, the yellow is added becomes black, so the surface of the yellow silk screen is not light sensitive or lightly exposed, so the pattern has high degree of clarity and vignetting.
	White	When light through the transparent part of the film and reaches emulsion layer, reflections, refractions, and slow shots occur on the surface of white silk screen coating layer. Exposed from the bottom and the inside of the coated surface, the phenomenon of 'back exposure' occurs. Back exposure will cause halo to affect the tone.
Screen tension (Newtons)	Nylon	Nylon screen are generally between 0~3Newtons, because smaller the tension, more elastic and soft, so it is suitable for printing materials with high and low amplitude and special frame screens.
	Tedron	Tedron generally use 12~14Newtons. When the tension is greater, the distance between the screen and the material can be closer, conversely it is far, usually 2~4mm from the grid.
Film thickness	The thickness of the printing ink lay is directly affected. Generally 10um. Thicker film print thicker thickness. The hardness of the scraping glue and angle of the ink also affect print thickness but there no many effect than screen and film.	
Screen size	When using handprint, the screen can be printed by adding about 5cm to the upper, lower, left, and right. If using mechanical printing, add at least 10cm each to the left right scraping directions, add 5cm to the up and down (excluding the frame).	

※Finecause's new generation of servo screen printer, it is recommended to leave 14cm on right and left side.