

What is the tension of Screen printing plate Stencil?

The tension depends on the type: the fine pattern (using the high mesh screen) takes about 10-12 Newtons, the coarse pattern generally uses the low mesh number, and the tension is about 7-8 Newtons.

Screen printing accuracy is related to the accuracy of screen printing, and screen tension is one of the important factors affecting the quality of screen printing. The tension of the screen is related to the material and strength of the frame, the texture of the screen, the temperature, the humidity, and the method of stretching the net. Usually in the case of manual stretcher and no tension meter, the tension determination is mainly based on experience. When stretching the net, the net is stretched and the screen is pressed with a finger. Generally, the screen is pressed with a finger, and the net is felt. It will be flexible.

When using a stretcher and a large frame stretcher, the tension gauge is typically used to test the screen tension.

When the stretcher is used for stretching, since the movement of the stretcher chuck (tightening test) is controlled by a barometer, the mesh of different textures has different air pressure values. Generally, the tension value of the tension net is 7-9 kg/cm²; the tension value of the nylon mesh is 8-10 kg/cm²; the pressure of the stretch screen of the polyester mesh is 8-10 kg/cm²; The stretch pressure of the stainless steel wire mesh is 10-13 kg/cm².

The above are the reference values of the air pressure of several kinds of screens in the stretched net. The stretch net can refer to these data to stretch the net according to the actual situation to obtain the ideal stretch tension.

If the requirements are not very high, 15n +/- 2N will do, unlike mobile phone lens printing, the precision is very high, generally around 21N.