



Quick Mounting Systems for SMT Stencils



Quattro Flex III with loading unit

The right solution for every application

Quick mounting frames for SMT stencils offer significant advantages in comparison to screen printing frames, where the stencils are stuck onto the frames:

With a quick mounting frame, you can change the stencil quickly and easily in the print machine used. They are not heavy and do not take up much space: ideal for storage. No more costs for the frames, or covering them or gluing in the stencils! Flexibility: the savings in terms of space and cost are the main pros of quick mounting systems.

Over the last few years, a variety of quick mounting systems have come onto the market and held their position there, and each type has its own strengths. To meet the different demands of our users, Photocad offers two different systems, each with a range of models: the Quattro Flex® system for perforated edge stencils, which uses compressed air, and the VectorGuard™, a spring-tension mounting system.

Photocad SMT stencils can be optimized for a variety of stencil thicknesses and for all three product lines for both mounting systems.

Quattro-Flex®

How it works

This four-sided quick mounting system holds the SMT stencil tight on the mount using compressed air. A pressure reducer ensures that the stencil tension is adjusted and controlled seamlessly and precisely. The compressed air can be set at different levels.

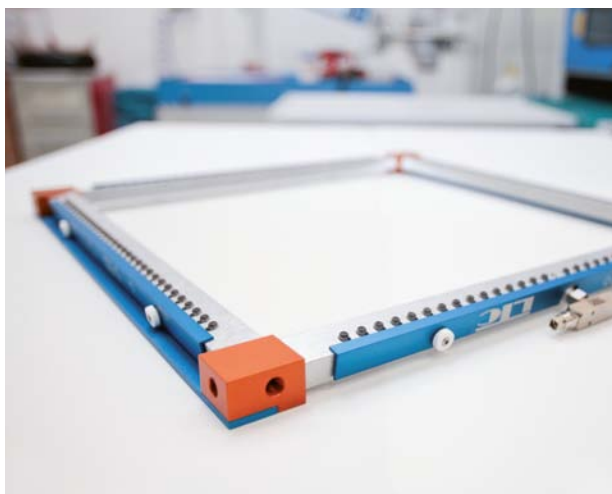
The stencils with perforated edges are tensioned evenly over the frames via the individual self-centring cylinders and the mounting pins are then secured onto the frame as a result of the tensioning.

The newly developed loading unit is required for the Quattro Flex Generation III. This facilitates and accelerates fitting the stencil. The Quattro Flex II-3 mounting system can also be used without a loading unit as it uses angle trims to hold the stencils in place.

The advantages

- Perfect distribution of tension over the entire surface
- Stencils can be changed over easily as the system is easy to use
- Stencils are securely positioned quickly
- High level of production safety
- Saves on usage costs

Product Model	Technical Information					
	Dimensions in mm			Weight	Tensioning cylinder	Max. Pressure
	External	Internal	Stencil			
Quattro Flex III	508 x 490 x 30	400 x 400	479.5 x 479.5	3.6 kg	106	4 bar
Quattro Flex II-3	584 x 566 x 30	475 x 475	555.5 x 555.5	4.2 kg	124	4 bar
	720 x 584 x 30	620 x 475	709.5 x 555.5	5.2 kg	148	4 bar
Loading Unit for Quattro Flex III	515 x 515 x 75		479.5 x 479.5	9 kg		
	600 x 600 x 75		555.5 x 555.5	10 kg		
	750 x 600 x 75		709.5 x 555.5	11 kg		



Quattro Flex II-3



Quattro Flex III with loading unit

VectorGuard™



VectorGuard



VectorGuard

How it works

The VectorGuard™ quick mounting system for SMT stencils is a four-sided spring-tension mounting system. The stencils have aluminium frames which make them very sturdy and secure. Once they have been finished, they are put straight into the quick mounting system and the spring system tensions them securely. In contrast to other mounting systems, VectorGuard™ only needs compressed air for the tensioning process - springs are used to keep the tension force constant during the printing process.

In addition to the basic model of the VectorGuard, we also offer VectorGuard High Tension, a quick mounting system for demanding applications with very detailed structures.

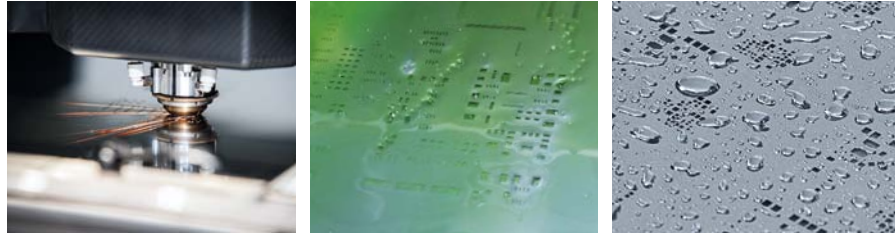
The advantages

- Perfect distribution of tension over the entire surface
- No compressed air connection is required for the printing process
- It is quicker and easier to change stencils as you don't have to line up the perforations or slots
- Aluminium frames minimize the risk of being injured by sharp metal edges
- Frames are light and thin, saving on storage space

Product Model	Technical Information				
	Dimensions in mm			Weight	Tension
	External	Internal	Stencil		
VectorGuard	584 x 584 x 30	504 x 504	555 x 555	3.9 kg	32 N
	584 x 736 x 30	504 x 656	555 x 709	4.4 kg	32 N
VectorGuard High Tension	584 x 584 x 30	504 x 504	555 x 555	3.9 kg	47 N
	584 x 736 x 30	504 x 656	555 x 709	4.4 kg	47 N



Photocad SMT Stencils: The Product Lines



Product Line

 **BASIC PLUS**

 **ADVANCED**

 **PERFORMANCE**

Product Characteristics

Brushed finish on both sides	+	+	+
Stencil check	+	+	+
Electropolished		+	+
Nano-coated			+

Suitable for

Assemblies with a simple structure

Assemblies with detailed structure: small quantities

Assemblies with detailed structure: large quantities

Technical Specifications

Component size	From 0603	Smaller than 0603	Smaller than 0603
Fine pitch	From 0.5	Smaller than 0.5	Smaller than 0.5
BGA	BGA	μBGA, QFN	μBGA, QFN



Ordering is easy!

Order your quick mounting system at our online shop, www.photocad.de.

Any other questions?

Our hotline +49 (0)30 565 969 80 is open from Monday to Friday from 6 AM until 10 PM.



photocad GmbH & Co. KG Landsberger Straße 225 • 12623 Berlin • Germany
Phone +49 (0)30 565 969 80 • Fax +49 (0)30 565 969 819 • mail@photocad.de
www.photocad.de

