ASMPT
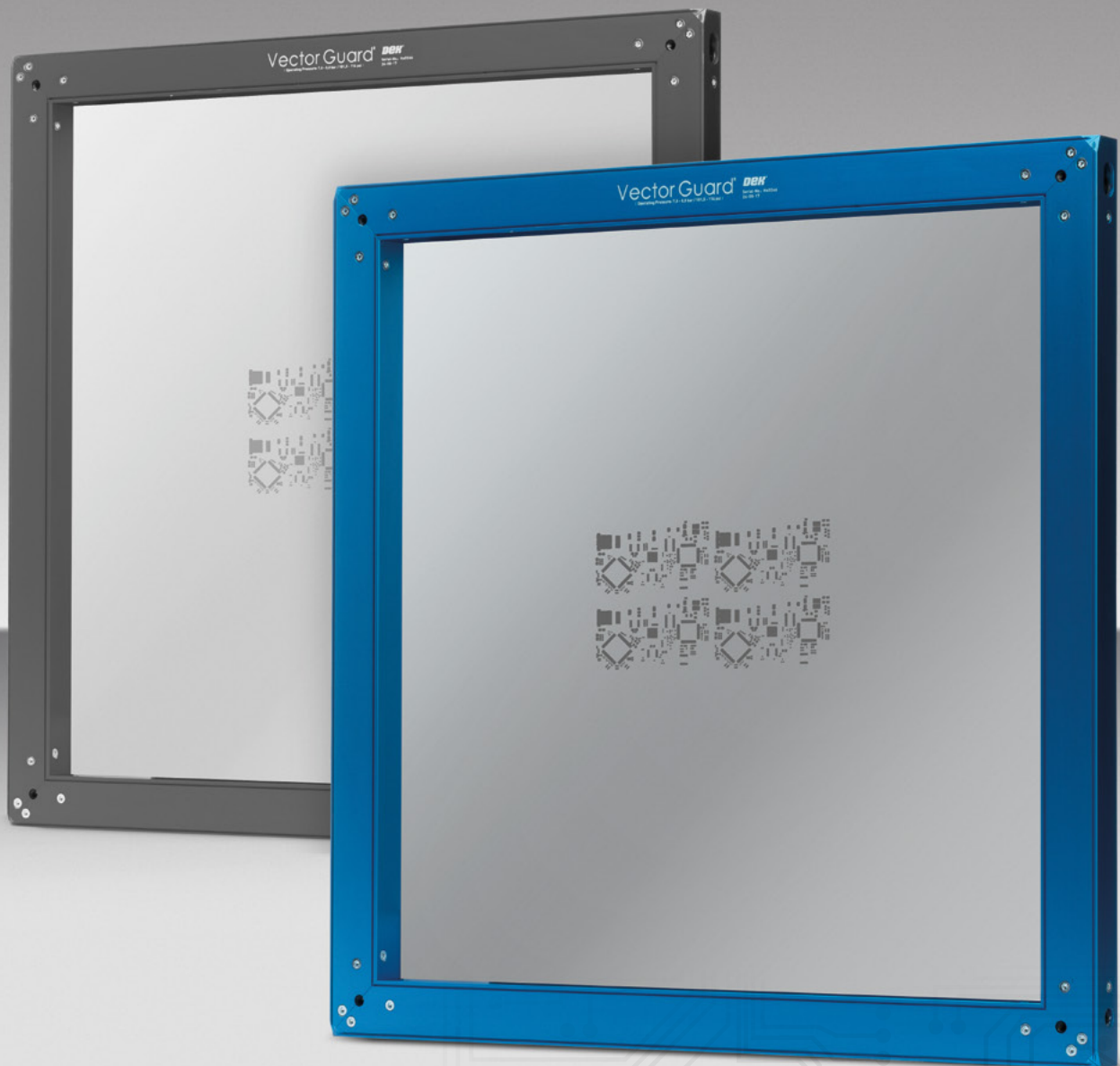
enabling the
digital world

Stencil frame solutions

Improving the print process and boosting throughput

## Stencil frame solutions

Stencil frame solutions

DEK stencil frame solutions give your stencil additional stability, ensure proper and even tension, and extend their service life. You build a foundation for stable printing processes with your choice of patented DEK VectorGuard frames or aluminum fames for your DEK stencils. Both are available in a wide range of sizes to fit any stencil.

DEK VectorGuard™ frame solutions

ASMPT's patented, award-winning DEK VectorGuard™ System is the industry standard for high-performance stencil frame technology to facilitate fast changeover, tension control and longer lifetime.
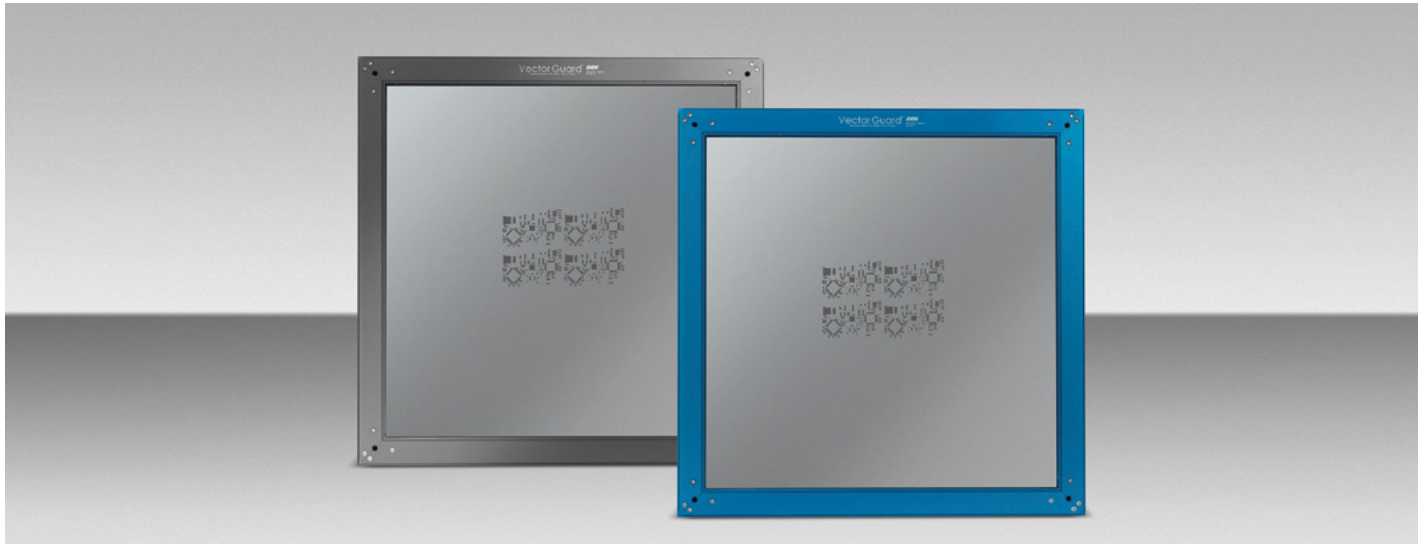
ASMPT invented the unique DEK VectorGuard™ single-frame stencil system and replaced older industry mechanisms that were cumbersome, malfunction-prone and unsafe for operators with a simple, air pressure-controlled frame design. Today, DEK VectorGuard™ is the industry benchmark for high quality stencil technologies, ideal for fast changeover and product adaptability.

In addition to its changeover advantages, DEK VectorGuard™ delivers consistent tension over the life of the stencil. Traditional mesh-mounted stencils have initial high tension but, with use and cleaning, the elasticity of the stencil mesh can weaken, resulting in areas of "sag" that can adversely affect stencil aperture to pad alignment and printing yields.

Features and benefits:

- Unique mechanical tensioning system that secures the foil in the frame
- Evenly distributed tension across the entire stencil
- Greater, more consistent tension over the life of the stencil as compared to mesh-mounted stencils
- No epoxy bonds that can degrade or break down over time
- Easy-to-use and operator-safe
- Reduces stencil storage space requirements by as much as 75%
- Global availability and support

The DEK VectorGuard™ frame system is available in both a classic version and a high tension version to address varying manufacturing needs.

DEK VectorGuard™ Classic frame

The proven, original DEK VectorGuard™ Classic frame system is ideal for standard SMT processes that do not generally employ ultra-fine-pitch, highly miniaturized dimensions. Cost-effective and versatile, DEK VectorGuard™ Classic delivers the benefits of quick changeover, simplified storage, operator safety and low cost-of-ownership.
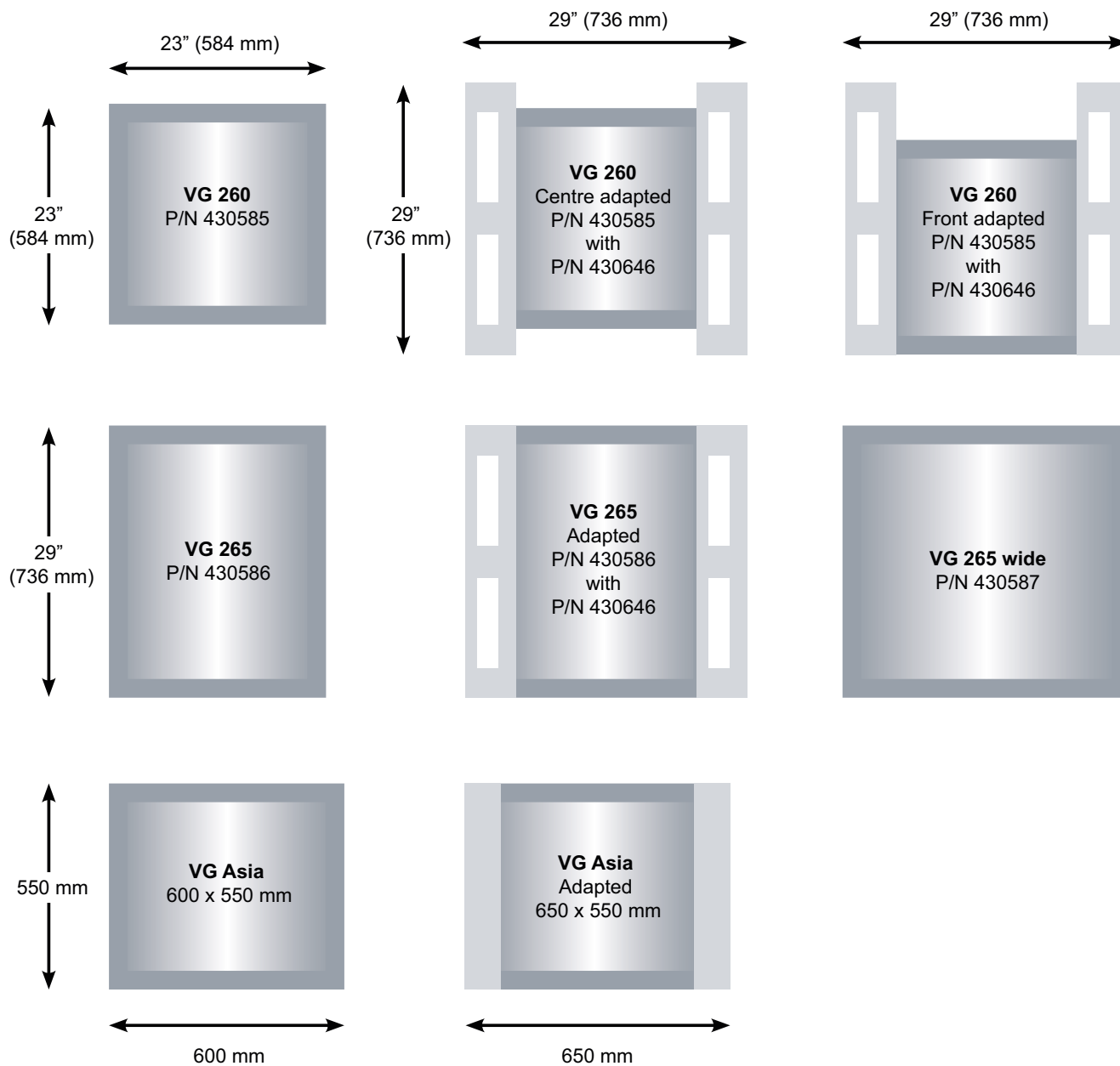
DEK VectorGuard™ High Tension frame

DEK VectorGuard™ High Tension frame, which is compatible with all DEK VectorGuard™ foils, is designed specifically for processes that integrate miniaturized dimensions and require extreme solder paste deposit definition. The DEK VectorGuard™ High Tension frame provides 45% greater tension than the DEK VectorGuard™ Classic frame, facilitating superior material transfer efficiency for small dimension printing.

DEK VectorGuard™ FRAME

| Part number | | Description | Available stencil types | | | | | |
SAP	DEK		Stainless steel	Nickel laser cut	DEK PumpPrint™	E-Formed	Tension	Adaptable to 29 x 29"
03128711	800023	VG260 High Tension 23 x 23 x 1.2" (584 x 584 x 30 mm)	▪	▪		▪	≈ 47N	▪
03130410	800029	VG265 wide High Tension 29 x 29 x 1.2" (736 x 736 x 30 mm)	▪				≈ 47N	
03130429	800039	VG265 High Tension 29 x 23 x 1.2" (736 x 548 x 30 mm)	▪	▪		▪	≈ 47N	▪
03128796	430585	VG260 23 x 23 x 1.2" (584 x 584 x 30 mm)	▪	▪	▪	▪	≈ 32N	▪
03130214	430586	VG265 23 x 29 x 1.2" (584 x 736 x 30 mm)	▪				≈ 32N	▪
03130215	430587	VG265 wide[1] 29 x 29 x 1.2" (736 x 736 x 30 mm)	▪	▪			≈ 32N	▪
03132464	186770	VG 650 x 550 650 x 550 mm	▪		▪	▪	≈ 32N	

Note: 1. Limited stencil thickness 5, 6, 7 and 8 mils

DEK VectorGuard™ ACCESSORIES

| Part number | | Description | Remarks |
SAP	DEK		
03130337	430905	Wash-frame for VG260 stencils	Bottom profile 40 x 40 mm, VG stencil to slide in from the top
03134676	430906	Wash-frame for VG265 stencils	Bottom profile 40 x 40 mm, VG stencil to slide in from the top
03130339	430907	Wash-frame for VG265 wide stencils	Bottom profile 40 x 40 mm, VG stencil to slide in from the top
03127432	430887	Repair kit without tools	Kit includes all materials to re-tube a frame
03131166	186680	Pneumatic fitting	Tube fitting to connect to the tube (red head)
03128687	430646	Sidebar set to adapt 23" frame to 29"	Adaptor bars to adapt a 23 x 23" or 23 x 29" to a 29 x 29" size
03138776	186826	BOM 248 VG ROLLER SET OF 4	VG roller set to load VG frame into DEK 248 printer
03132620	430022	AIR PRESSURE FITTING	Replacement air fitting for VG frames
03133878	430451	VG ESD Cassette 23x23" Black	ESD storage cassette for VG (23"x23") stencil, black
03133877	430452	VG ESD Cassette 23x29" Black	ESD storage cassette for VG (23"x29") stencil, black
03132622	430609	ESD Plastic Cassette Hook	ESD Hook for ESD storage cassette
03162857	800033	VG Service Kit Level 1 Service	Please contact your local PSP sales representative
03162858	800034	VG Service Kit Level 2 Service	Please contact your local PSP sales representative
03162859	800036	VG Service Kit Level 1 Upgrade	Please contact your local PSP sales representative
00152975	800050	Annual Maintenance VG 23x23 (30 mm)	Please contact your local PSP sales representative
00152976	800051	Annual Maintenance VG 23x29	Please contact your local PSP sales representative
00152977	800052	Annual Maintenance VG 29x29	Please contact your local PSP sales representative
00152979	800053	Calibration & Certification VG 23x23 (30 mm)	Please contact your local PSP sales representative
00152980	800054	Calibration & Certification VG 23x29	Please contact your local PSP sales representative
00152981	800055	Calibration & Certification VG 29x29	Please contact your local PSP sales representative
00152966	800059	Annual Maintenance VG 23x23 (26 mm)	Please contact your local PSP sales representative
00152978	800060	Calibration & Certification VG 23x23 (26 mm)	Please contact your local PSP sales representative
03137294	800062	Annual Maintenance VG 600x550 / VG 650x550	Please contact your local PSP sales representative
03242331		VG Airline High Tension Kit	
03258506		VG Airline Classic Kit	

23" (584 mm)

29" (736 mm)

29" (736 mm)

23"
(584 mm)

29"
(736 mm)

VG 260
P/N 430585

VG 260
Centre adapted
P/N 430585
with
P/N 430646

VG 260
Front adapted
P/N 430585
with
P/N 430646

29"
(736 mm)

VG 265
P/N 430586

VG 265
Adapted
P/N 430586
with
P/N 430646

VG 265 wide
P/N 430587

550 mm

VG Asia
600 x 550 mm

VG Asia
Adapted
650 x 550 mm

600 mm

650 mm

DEK Mesh-mounted frame solution

Robust aluminum construction to exact manufacturing specifications ensures DEK Mesh-mounted frames provide optimum stencil stability for modern SMT print processes.

ASMPT can provide DEK Mesh-mounted frames in a variety of sizes:

- DEK 260 23"x23" (40 mm x 584 mm x 584 mm)
- DEK 265 29"x29" (40 mm x 736 mm x 736 mm)
- 40 mm x 600 mm x 550 mm
- 40 mm x 650 mm x 550 mm
- Space saver 29" x 29" (10 mm x 736 mm x 736 mm)

By request, non-standard framed stencils can be supplied; please contact your local representative.

ASMPT

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Products Website

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Products Webshop

ASMPT SMT Solutions
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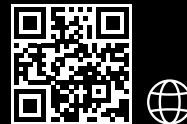
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