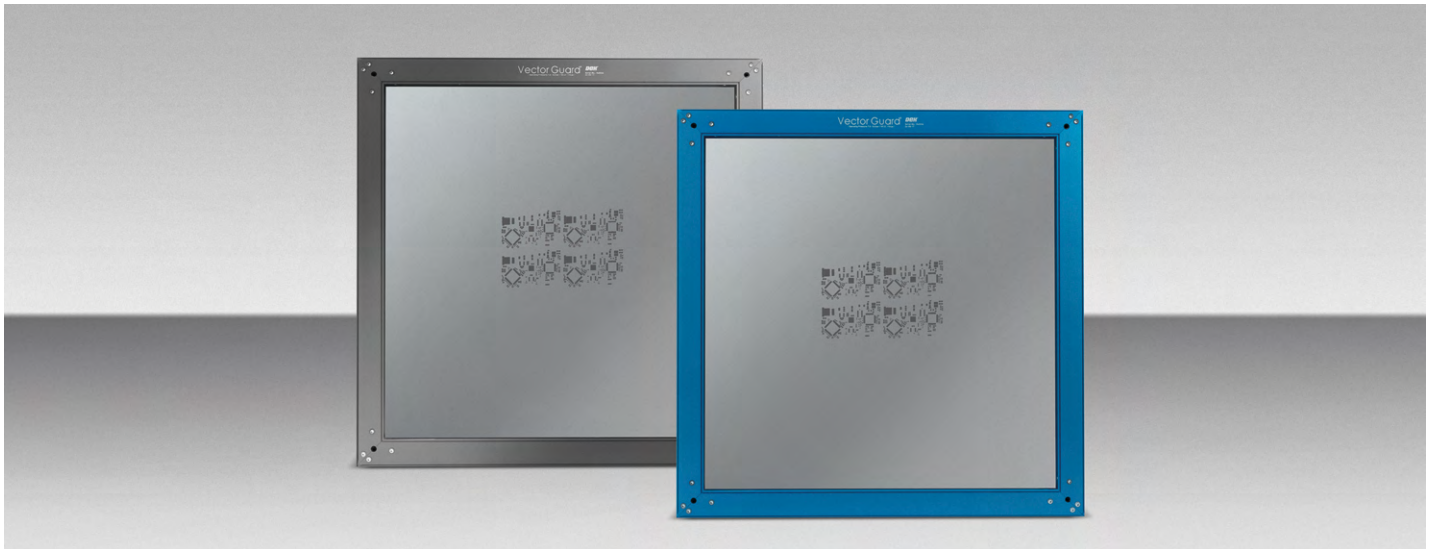
ASMPT enabling the digital world

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

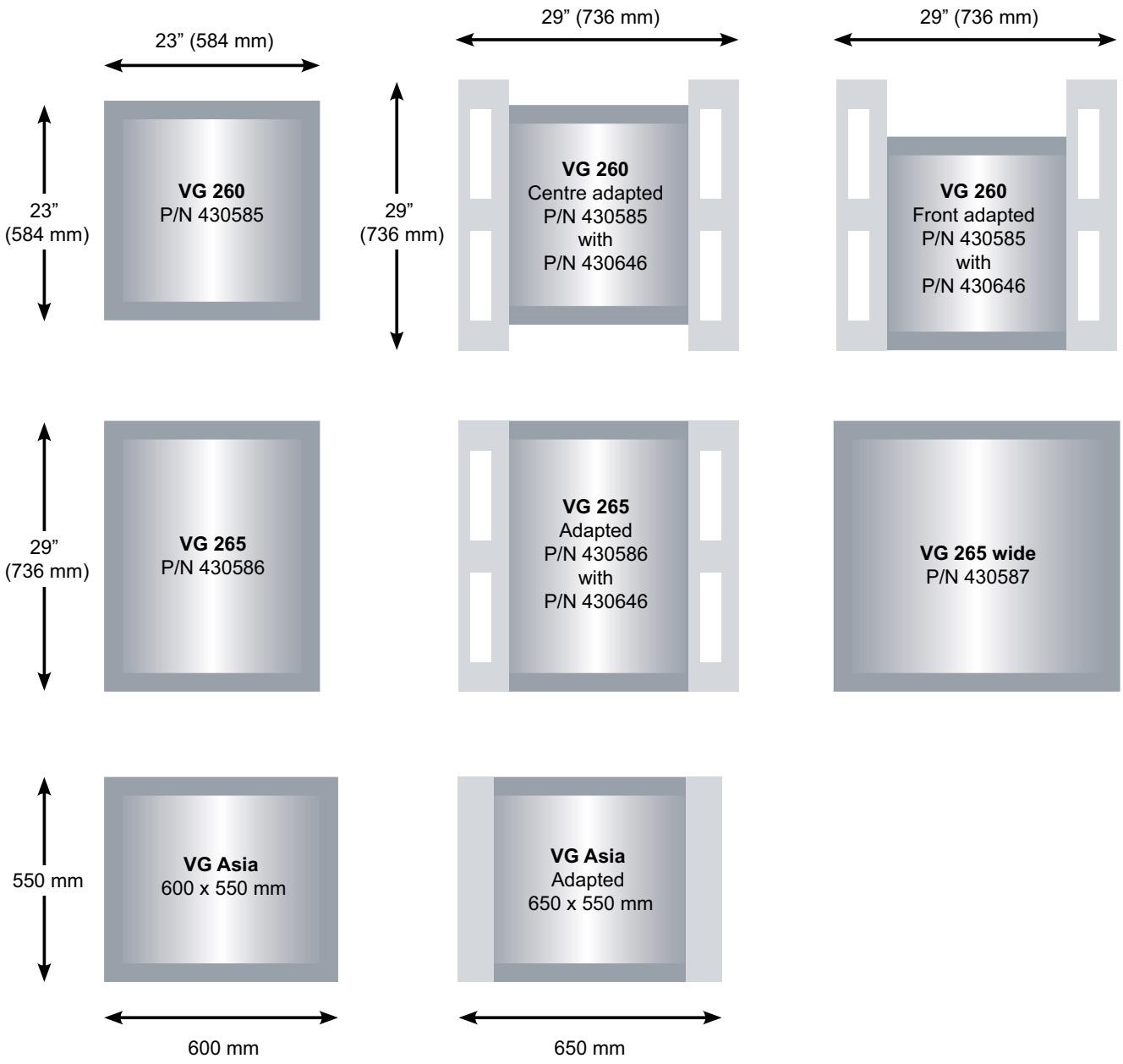
DEK VectorGuard™ High Tension frame, which is compatible with all DEK VectorGuard™ foils, is designed specifically for processes that integrate miniaturized dimensions and require extreme solder paste deposit definition. The DEK VectorGuard™ High Tension frame provides 45% greater tension than the DEK 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 × 29″**
03128711	800023	VG260 High Tension 23 × 23 × 1.2″ (584 × 584 × 30 mm)	■	■		■	≈ 47N	■
03130410	800029	VG265 wide High Tension 29 × 29 × 1.2″ (736 × 736 × 30 mm)	■				≈ 47N	
03130429	800039	VG265 High Tension 29 × 23 × 1.2″ (736 × 548 × 30 mm)	■	■		■	≈ 47N	■
03128796	430585	VG260 23 × 23 × 1.2″ (584 × 584 × 30 mm)	■	■	■	■	≈ 32N	■
03130214	430586	VG265 23 × 29 × 1.2″ (584 × 736 × 30 mm)	■				≈ 32N	■
03130215	430587	VG265 wide[1] 29 × 29 × 1.2″ (736 × 736 × 30 mm)	■	■			≈ 32N	■
03132464	186770	VG 650 × 550 650 × 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 × 40 mm, VG stencil to slide in from the top
03134676	430906	Wash-frame for VG265 stencils	Bottom profile 40 × 40 mm, VG stencil to slide in from the top
03130339	430907	Wash-frame for VG265 wide stencils	Bottom profile 40 × 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 × 23″ or 23 × 29″ to a 29 × 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 23 × 23″ Black	ESD storage cassette for VG (23″ × 23″) stencil, black
03133877	430452	VG ESD Cassette 23 × 29″ Black	ESD storage cassette for VG (23″ × 29″) 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 23 × 23 (30 mm)	Please contact your local PSP sales representative
00152976	800051	Annual Maintenance VG 23 × 29	Please contact your local PSP sales representative
00152977	800052	Annual Maintenance VG 29 × 29	Please contact your local PSP sales representative
00152979	800053	Full Service VG 23 × 23 (30 mm)	Please contact your local PSP sales representative
00152980	800054	Full Service VG 23 × 29	Please contact your local PSP sales representative
00152981	800055	Full Service VG 29 × 29	Please contact your local PSP sales representative
00152966	800059	Annual Maintenance VG 23 × 23 (26 mm)	Please contact your local PSP sales representative
00152978	800060	Full Service VG 23 × 23 (26 mm)	Please contact your local PSP sales representative
03137294	800062	Annual Maintenance VG 600 × 550 / VG 650 × 550	Please contact your local PSP sales representative
03242331		VG Airline High Tension Kit	
03258506		VG Airline Classic Kit	

DEK VectorGuard™ FRAME SOLUTIONS, SIZES



ASMPT

ASMPT Americas
Phone: +888 768 4357 (press 2)
Email: smtparts.us@asmpt.com

ASMPT Europe
Phone: +40 722 692 108
Email: asmpt-psp.eu@asmpt.com

ASMPT Asia
Phone: +65 6877 3900
Email: spares.sg@asmpt.com

Process Support Products Website
psp.smt.asmpt.com

Process Support Products Webshop
smt.asmpt.com/en/myasmpt/webshop

ASMPT SMT Solutions Website
smt.asmpt.com

ASMPT Website
asmpt.com

ASMPT SMT Solutions YouTube
www.youtube.com/c/ASMPTSMTSolutions

Edition 14/08-2026 | All rights reserved. | Order No.: A22-ASMPT-A322-EN | Printed in Germany | © ASMPT GmbH & Co. KG

All information and illustrations in this brochure are provided “as is” and without any warranties of any kind, whether expressed or implied, including but not limited to, implied warranties of satisfactory quality, fitness for a particular purpose and/or correctness.

The contents of this brochure are for general information purposes only, do not constitute advice, and are subject to change without notice. ASMPT therefore makes no warranties or representations regarding the use of the content, details, specifications or information contained in this brochure in terms of their correctness, accuracy, adequacy, usefulness, timeliness, reliability or otherwise, in each case to the fullest extent permitted by law. Please contact ASMPT for the most current information. Any specific performance features and/or capabilities will only be binding if contractually agreed upon.

All product names are brands or trademarks of ASMPT or other suppliers. Unauthorised use by third parties may violate the rights of their owners.