



ENABLING THE DIGITAL WORLD

ASM Process Support Products

Essentials for highest yields



Machines & Software



Process Expertise



Tools & Materials



Smart Processes



**ASM
PRINTING
EXCELLENCE**

ASM Enables Printing Excellence

Stable printing processes are critical for the quality and efficiency of your electronics production.

ASM is the only equipment manufacturer in the world that is able to offer everything you need for the stencil printing process: machines and software, consumables, stencils and toolings, process expertise, and smart process solutions. Only our teams of experts can adjust each component perfectly to provide you with the best solution available. The bottom line: only ASM guarantees printing excellence.

Our printing solutions deliver maximum productivity, extreme accuracy, and ease of operation.

Excellent hardware with powerful yet easy-to-operate software – the trademarks of our DEK printing solutions. Users benefit from outstanding printing accuracy, high yields, and economic efficiency. Our DEK portfolio of printers features solutions for every type of production. With their modular design, DEK printers can be configured for any requirement.

Competent support from experienced process experts

Stable, optimized printing processes require more than good machines and materials – they require process expertise. The global ASM team has decades of experience in stencil printing. We gladly share this knowledge with your teams – in training seminars, workshops, and joint projects. Our application support is there when you need it – online, in our SMT Centers of Competence all over the world, or at your location.

Stencils, toolings and consumables for optimized processes

Printing processes are complex. The only way to achieve optimal results is by employing the right stencils, toolings and consumables. We are the only equipment manufacturer that can provide you with everything you need to optimize your printing processes.

State-of-the-art SPI solutions for total process control

Optical systems and sensors in our machines ensure closed-loop process controls and safeguard stable printing processes. As the industry's technology leader, ASM also counts on innovative technologies that offer an entirely new set of possibilities for process control and optimization.

With the ASM ProcessExpert, we offer one of most precise and flexible SPI solutions on the market that raises your printing processes to an entirely new level.

Temple4 and ASMybur partner for printing process optimization

Printing processes are complex. As the world's only manufacturer of printing solutions, we are by your side at every point in the process chain.

Machines and Software

Powerful, modular best-in-class printing platforms that can be optimally configured for any application and a wide range of production types with efficient and reliable operation thanks to state-of-the-art software.

- E by DEK – the midspeed all-rounder
- DEK NeoHorizon – maximum flexibility
- DEK TQ – maximum performance
- ASM printer programming



Process expertise

Benefit from the decades of process expertise we have accumulated in our global network of developers, application engineers and support technicians.

- SMT Centers of Competence
 - Testing/application support
- On-site training seminars and workshops
- ASM Remote Smart Factory
- ASM Academy training portal

Tools and Materials

Get the most out of your printing processes. With our Process Support Products (PSP) you optimally coordinate all process components for maximum efficiency and quality.

- ASM stencils
 - ASM materials
 - All technologies
 - Single-/multi-level
 - Coated/Uncoated
- ASM stencil frame solutions
- ASM SmartStencil lifecycle management
- ASM stencil storage systems
- ASM support solutions
- ASM consumables
- ASM squeegees



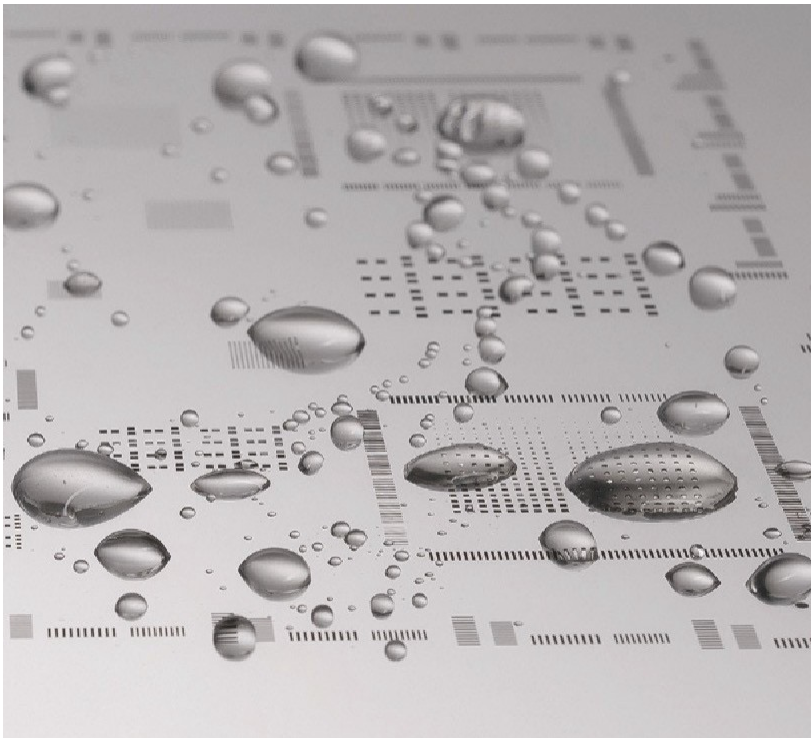
Smart processes

New technologies open up new possibilities. As the industry's technology leader, we are always at the forefront of making your printing processes future-proof.

- ASM ProcessLens (SPI)
- ASM ProcessExpert – our self-learning inline expert system for autonomous printing process optimization
- DFM HealthCheck

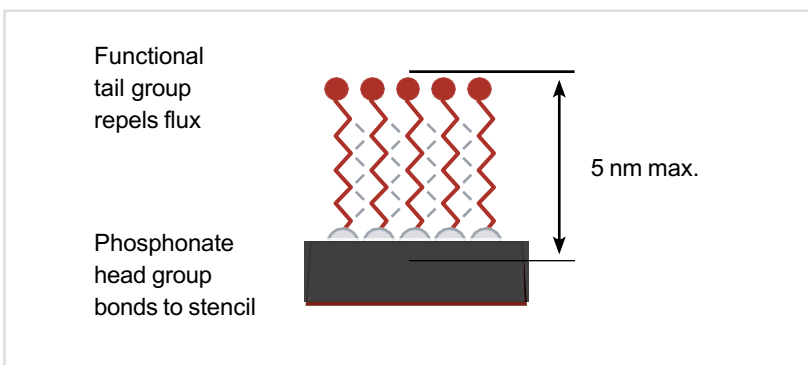
NanoClear® stencil coating

Self-applied fluxophobic stencil coating technology delivers high performance stencils in a cost-effective wipe. Designed to overcome the challenges of smaller aperture sizes, the NanoClear® coating offers a unique solution to improve cleaning effectiveness and reduce cleaning frequency.



Features and benefits

- Increases efficiency
 - Reduces the frequency of cleaning
 - Allows time for more production or SPI
- Reduces cost
 - Less cleaning uses less USC fabric and solvent
 - Less expensive than alternative wipe-on coatings
 - Easy to apply to new or existing stencils
 - Chemically inert when dry to ensure no possible interaction with paste
 - Forms a permanent bond and can be reapplied as it only adheres to uncovered areas
 - REACH compliant
 - Compatible with stainless steel or nickel stencils
 - One pouch will coat one stencil (measuring up to 29" x 29")



NanoClear® STENCIL COATING

Part number		Description
SAP	DEK	
03128620	431800	Box of 10 wipes



ASM Stencil frame solutions

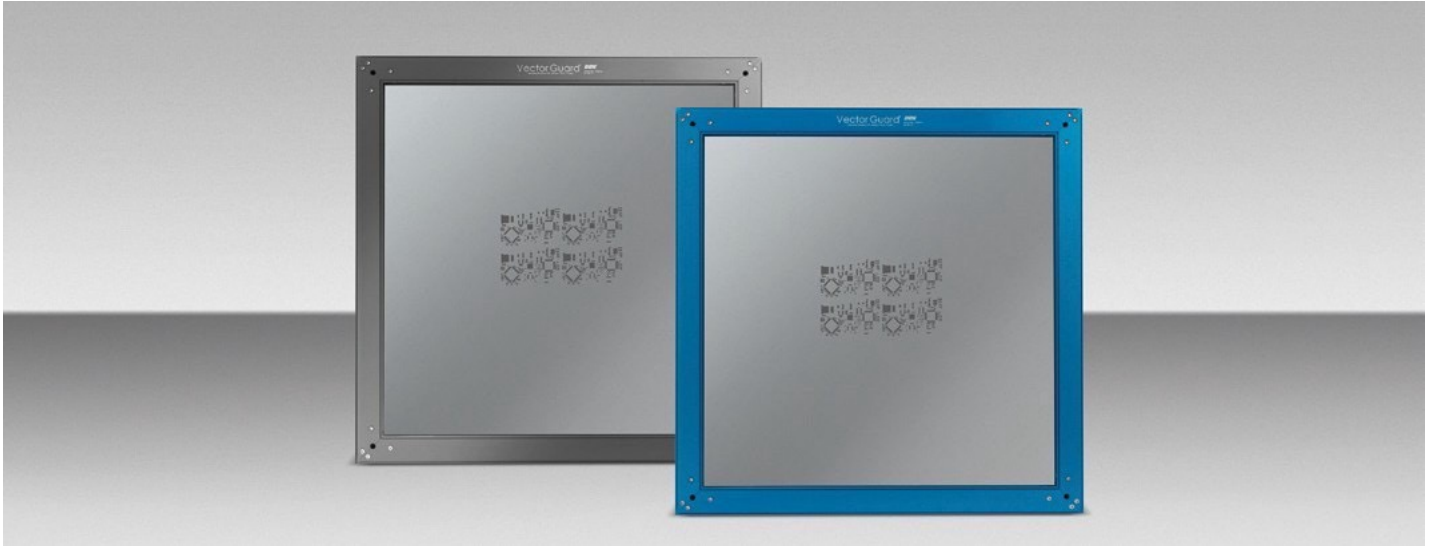
- DEK VectorGuard™ frame solutions
- DEK Mesh-mounted frame solution

ASM 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 frames for your DEK stencils. Both are available in a wide range of sizes to fit any stencil.

DEK VectorGuard™ frame solutions

ASM'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.



ASM 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
03130217	430647	Foot pedal kit	Only need as an additional kit
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
03130224	431394	Pressurebooster	Pressure booster for VG high tension frame loading/unloading
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

See also ASM Stencils and screens storage on page 55 for DEK VectorGuard™ cabinets.



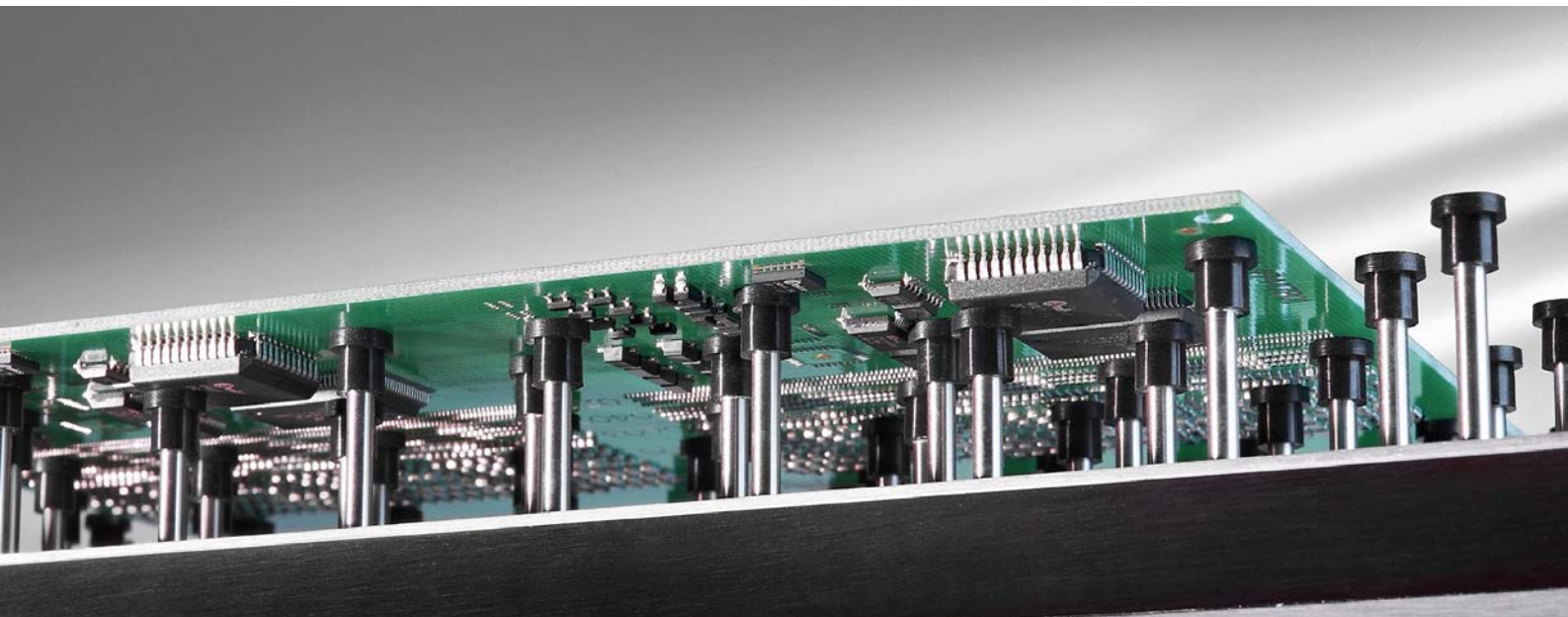
ASM



ENABLING THE DIGITAL WORLD

ASM PCB support solutions

Highest and profitable yield



ASM PCB support solutions

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ASM PCB support solutions

Having a solid and even support for the substrate is a key to a high yield and more efficiency in screen and stencil printing. ASM offers a broad spectrum of custom-tailored, automatic and modular toolings and carrier systems for virtually any production requirement.

ASM solutions for supporting previously singulated substrates ensure maximum efficiency and precision in these innovative and increasingly popular printing processes for particularly demanding applications. ASM supplies a choice of different tooling versions with mechanical and optical alignment.

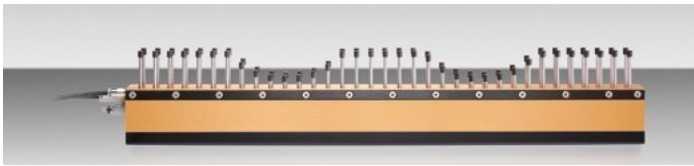
For classic panel printing applications, ASM offers a broad spectrum of support solutions ranging from application-specific tooling and carrier system to DEK Flex Support and highly flexible DEK Grid-Lok™ solutions whose support pins adapt automatically to any requirements and topology.

Functions and benefits of ASM SMT toolings:

- Improved performance
- More efficiency
- Reduced costs
- More capabilities
- Technological leadership

DEK Grid-Lok™ Gold

DEK Grid-Lok™ Gold provides robust, adaptable board support for screen printing and testing processes.



Module specifications:

Depending on the specific machine application, the modules have the following specifications:

- Available tooling heights 39 mm to 98 mm
- Available module lengths: 305 mm, 457 mm
- Component clearance: 13 mm to 40 mm
- Pin count
 - Module width: 32 mm
 - 305 mm – 46 pins configured in 2 rows on a 12 mm x18 mm pitch
 - 457 mm – 70 pins configured in 2 rows on a 12 mm x18 mm pitch
 - Pin setting force – 5 grams per pin
 - Pin cap – electrically conductive silicone rubber compound

Stencil printers:

- ASM
- Ekra
- Ersal
- Juki GKG
- MPM Speedline
- Panasonic
- Speedprint
- Yamaha

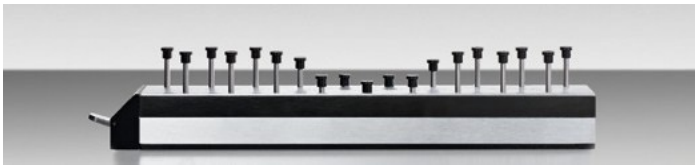
DEK Grid-Lok™ GOLD KITS				
Part number		Controller/ description	Manifold(s) included	Included in all kits
SAP	DEK			
03140727	KIT_111	111_CTL – single table system	1 each, 006_MAN, manifold for 6 modules	INC_FIK - Field Installation Kit, 002_CON – Handheld controller/holder (only for single table system), 6 each twin leashes per manifold, all necessary fittings, tubes and air pipes for kit installation
03136308	KIT_211	211_CTL – dual table system	2 each, 006_MAN, manifolds for 12 modules	

Note: 077_SBA – optical sensor which is not included in the kit, may be required if the host machine doesn't have pneumatic activated board clamps. Please consult your local ASM representative for more information.

DEK Grid-Lok™ GOLD AUTOMATIC MODULES					
Height (mm)	Part numbers				Equipment
	GOLD, HD, 12 inch modules		Gold, HD, 18 inch modules		
	SAP	DEK	SAP	DEK	
39	03132658	GHD3912	03130467	GHD3918	MPM Momentum, Accela, Accuflex
41	03132059	GHD4112	03131865	GHD4118	Panasonic SP18, 60, 70, 80, SPG
59	03148495	GHD5912	03148496	GHD5918	Speedprint
65	03132660	GHD6512	03148498	GHD6518	Juki GKG
67	03140916	GHD6712	03140833	GHD6718	Yamaha YSP
81	03130368	GHD8112	03128499	GHD8118	ASM DEK
87	03130475	GHD8712	03130371	GHD8718	Ekra
98	03136187	GHD9812	03140858	GHD9818	Ersal

DEK Grid-Lok™ Silver

DEK Grid-Lok™ Silver is ideal for placement processes, where substrate support requires robustness and protection against vibration.



Module specifications

Depending on the specific machine application, the modules have the following specifications:

- Available tooling heights: 53 mm to 135 mm
- Module length: 355 mm and 254 mm (for few heights)
- Module width: 32 mm
- Pin count: 27 pins configured in 2 rows, on a 25 mm x 20 mm pitch
- Component clearance: 16.5 mm
- Pin cap – electrically conductive silicone rubber compound

System requirements:

- Air pressure: 80-102 PSI (0.55-0.7 MPa)
- Air quality: 2.3.3 where 2 (dirt) = 1 micron, 3 (water) = -20° C pressure dew point and 3 (oil) = 1 mg/m³
- 120-240 AC supply to provide 24 VDC to power control box

DEK Grid-Lok™ SILVER AUTOMATIC KITS

Part number		Controller/ description	Manifold(s) included	Included in all kits
SAP	DEK			
03140727	KIT_111	111_CTL – Single Table System	1 each, 006_MAN, manifold for 6 modules	INC_FIK - Field Installation Kit, 002_CON – Handheld controller/holder (only for single table system), 6 each twin leashes per manifold, all necessary fittings, tubes and air pipes for kit installation
03136308	KIT_211	211_CTL – Dual Table System	2 each, 006_MAN, manifolds for 12 modules	

Note: 077_SBA – optical sensor which is not included in the kit, may be required if the host machine doesn't have pneumatic activated board clamps. Please consult your local ASM representative for more information.

Placement systems:

- SIPLACE
- Assembleon
- Fuji
- I-pulse
- Juki
- Panasonic
- Samsung
- Universal
- Yamaha

DEK Grid-Lok™ SILVER AUTOMATIC MODULES

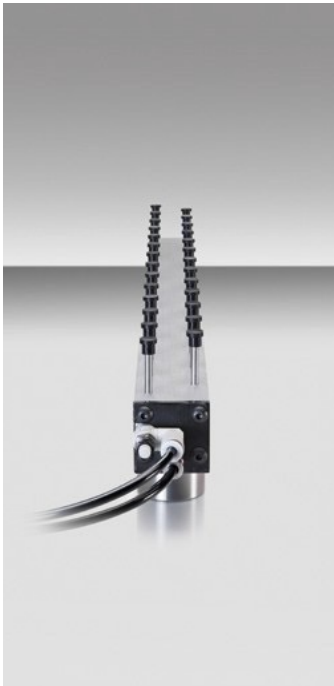
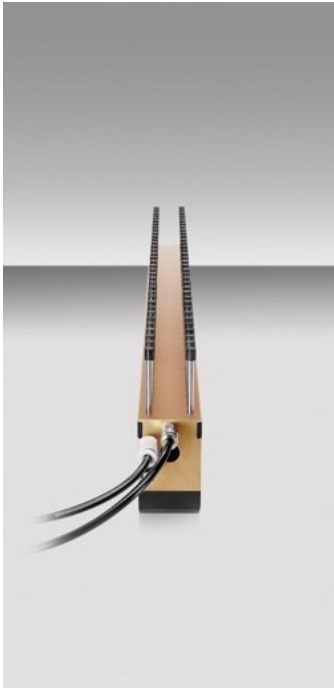
Height (mm)	Controller	Part number				Equipment
		Silver, MD, 10 inch modules		Silver, MD, 14 inch modules		
		SAP	DEK	SAP	DEK	
53	single	03132669	GMD5310A	03131866	GMD5314A	Fuji NXT M3, M6 single
53	dual	03132669	GMD5310A	03131866	GMD5314A	Fuji NXT M3, M6 dual
57	single	N/A	N/A	03148514	GMD5714A	UIC
57	dual	N/A	N/A	03148514	GMD5714A	UIC
65	single	N/A	N/A	03148517	GMD6514A	Juki, GKG
67	single	N/A	N/A	03132674	GMD6714A	Yamaha YSP
70	single	N/A	N/A	03148501	GMD7014A	Panasonic NPM, I-Pulse
76	single	N/A	N/A	03132681	GMD7614A	Yamaha YS12
76	dual	03148520	GMD7610AM*	N/A	N/A	Yamaha YS24
77	single	N/A	N/A	03136228	GMD7714A	SIPLACE F, C, S
81	single	N/A	N/A	03136229	GMD8114A	DEK
87	single	N/A	N/A	03148521	GMD8714A	Ekra
97	single	N/A	N/A	03136230	GMD9714A	SIPLACE D, SIPLACE SX, Juki
97	dual	N/A	N/A	03136230	GMD9714A	SIPLACE X, Juki FX-3
97	quad	N/A	N/A	03136230	GMD9714A	SIPLACE X, SIPLACE HS
98	single	N/A	N/A	03148522	GMD9814A	Ersa
132	single	N/A	N/A	03141189	GMD1324A	Samsung SM421
134	single	N/A	N/A	03141190	GMD1344A	Samsung SM481, 482
134	dual	N/A	N/A	03141190	GMD1344A	Samsung SM471

* Hybrid modules

DEK Grid-Lok™ SILVER MANUAL MODULES

Height (mm)	Part number				Equipment
	Silver, MD, 10 inch modules		Silver, MD, 14 inch modules		
	SAP	DEK	SAP	DEK	
53	03130374	GMD5310M	03128587	GMD5314M	Fuji NXT M3, M6
57	N/A	N/A	03132672	GMD5714M	UIC
62	N/A	N/A	03148516	GMD6214M	Takaya in line
65	N/A	N/A	03148518	GMD6514M	Juki GKG
67	N/A	N/A	03132676	GMD6714M	Yamaha YSP
70	N/A	N/A	03138817	GMD7014M	Panasonic NPM, I-Pulse
76	03132680	GMD7610M	03132683	GMD7614M	Yamaha YS12, YS24
77	N/A	N/A	03132685	GMD7714M	SIPLACE F, C, S
81	N/A	N/A	03128560	GMD8114M	DEK
87	N/A	N/A	03128591	GMD8714M	Ekra
97	N/A	N/A	03128624	GMD9714M	SIPLACE D, SX, Juki
98	N/A	N/A	03148523	GMD9814M	Ersa, Takaya off line
132	N/A	N/A	03132667	GMD1324M	Samsung SM421
134	N/A	N/A	03141332	GMD1344M	Samsung SM481, 482, 471

DEK Grid-Lok™ spare parts



DEK Grid-Lok™ SPARE PARTS		
Part number		Description
SAP	DEK	
03128574	025_TIP	ESD rubber top caps for GSX old modules (25 pcs)
03128754	100_TIP	ESD rubber top caps for GSX old modules (100 pcs)
03128569	025_UTP	ESD rubber top caps for GHD gold modules (25 pcs)
03128778	100_UTP	ESD rubber top caps for GHD gold modules (100 pcs)
03128582	025_TMP	ESD rubber top caps for GMD silver modules (25 pcs)
03130302	100_TMP	ESD rubber top caps for GMD silver modules (100 pcs)
03128792	025_TSP	ESD rubber top caps for GHD 39mm MPM gold modules (25 pcs)
03130303	100_TSP	ESD rubber top caps for GHD 39mm MPM gold modules (100 pcs)
03128623	018_PRK	Pin repair kit old GSX 81mm DEK modules (25 pcs)
03128779	881_PRK	Pin repair kit gold GHD 81mm DEK modules (25 pcs)
03128713	887_PRK	Pin repair kit gold GHD 87mm Ekra modules (25 pcs)
03142684	009_PRK	Pin repair kit old GSX 75mm Panasonic modules (10 pcs)
03128733	818_PRK	Pin repair kit gold GHD 39mm MPM modules (10 pcs)
03132652	062_PRK	Pin repair kit gold GHD 62mm Takaya modules (25 pcs)
03132651	053_PRK	Pin repair kit silver GMD modules (10 pcs)
03128695	006_MAN	Manifold (pneumatic connector) with 6 outputs
03128699	006_SMF	Quick silver connect fitting female for manifold (6 pcs)
03130459	006_RMF	Quick red connect fitting female for manifold (6 pcs)
03136066	006_AFT	90 deg fitting 1/4" tube
03130301	006_FLO	Air flow controller fitting for the manifold
03130460	018_FLO	Air flow controller fitting for GHD gold and GMD silver modules (5 pcs)
03130300	005_LEA	Twin tubing leashes for all modules (5 pcs)
03148504	041_BLA	Board lifters set 41mm (Panasonic SP)
03132653	067_BLA	Board lifters set 67mm (Yamaha YSP)
03128724	087_BLA	Board lifters set 87mm (Ekra)
03128500	077_SBA	Optical sensor with magnetic Base
03130304	111_CTL	Single Table DEK Grid-Lok™ controller
03132655	211_CTL	Double Table DEK Grid-Lok™ controller
03128656	002_CON	Grid-Lok™ hand held remote control
03130298	001_DCP	24 volt power supply
03139626	005_SFT	Straight fitting 5/32" tube x 10-32 thread for all modules
03144459	005_AFT	90 deg fitting 5/32" tube x 10-32 thread for old GSX modules
03132654	111_VAL	Valve for control box 111_CTL
03148506	111_PSI	Pressure sensor for 111_CTL
03148505	111_PCB	Programmed circuit board for 111_CTL
03148507	211_PCB	Programmed circuit board for 211_CTL
03128723	518_MAG	Adhesive magnetic tape (5 pcs)
03132650	010_PIP	Pin in paste jig 10" Silver module (jig to keep selected pins down)
03131335	012_PIP	Pin in paste jig 12" gold module (jig to keep selected pins down)
03143235	014_PIP	Pin in paste jig 14" silver module (jig to keep selected pins down)
03131852	018_PIP	Pin in paste jig 18" gold module (jig to keep selected pins down)
03148494	553_PST	Plastic piston for the silver modules (5 pcs)
03148487	018_ORO	Orange rubber piston stoppers for the gold modules (50 pcs)



ENABLING THE DIGITAL WORLD

ASM Stencil storage systems

Minimizing floor space and changeover time



ASM Stencil storage systems

- DEK VectorGuard™ cabinet
- DEK VectorGuard™ lower cabinet
- DEK VectorGuard™ mobile cabinet
- DEK VectorGuard™ working station
- DEK Mesh-mounted stencils/
- DEK Precision screens storage

ASM Stencil storage systems

DEK VectorGuard™ has revolutionized the paste printing process. Instead of having to use separate mesh-mounted frames for each stencil, DEK VectorGuard™ features easy-to-use foil mounting technology that saves up to 75% of storage space for stencils.

ASM has also developed a whole range of stencil cabinets to properly secure your investment. With DEK cabinets you make sure that stencils and frames are always in the right place and at hand when needed.

DEK Stencilstorage systems

Stencils and screens are a large investment; storing them properly will protect their value and prolong the usable life while providing organized, easy access. ASM has designed a complete portfolio of storage solutions for stencils and screens.



DEK VectorGuard™ cabinet

- Ideal storage for 96 DEK VectorGuard™ stencils
- Special stainless steel adjustable, numbered runners for easy retrieval and return
- A practical drawer for convenient access and out-of-sight storage for all consumables and printing tools, such as squeegees
- Optional doors for additional stencil protection and safe-keeping

DEK VectorGuard™ CABINET			
Part number		Description	Size (mm)
SAP	DEK		
03128746	431190	DEK VectorGuard™ cabinet 260/265 excl. doors	2000 H x 1000 W x 620 D
03130343	431180	DEK VectorGuard™ cabinet 260/265 incl. doors	2000 H x 1000 W x 620 D
03128717	431191	DEK VectorGuard™ cabinet 265 excl. doors	2000 H x 1000 W x 765 D
03130345	431181	DEK VectorGuard™ cabinet 265 ncl. doors	2000 H x 1000 W x 765 D



DEK VectorGuard™ tower cabinet

- Includes practical hanging runner to store away items quickly and safely
- Holds 100 stencil foils
- Accommodates all common stencil foil sizes
- Stencil foil size 260 mm x 260 mm (23 x 23 inches)
- Stencil foil size 260 mm x 265 mm (23 x 29 inches)
- Stencil foil size 265 mm x 265 mm (29 x 29 inches)

DEK VectorGuard™ TOWER CABINET			
Part number		Description	Size (mm)
SAP	DEK		
03130346	431183	DEK VectorGuard™ tower cabinet	2000 H x 1000 W x 765 D



DEK VectorGuard™ mobile cabinet

- Storage of up to 50 hanging DEK VectorGuard™ stencil foils
- Stencil foils size 260 mm x 260 mm (23 x 23 inches)
- Mobility-enabled with wheel transport and stability brakes; lockable doors
- Cabinet height intentionally designed to enable production line visibility at all times

DEK VectorGuard™ MOBILE CABINET			
Part number		Description	Size (mm)
SAP	DEK		
03130353	431184	DEK VectorGuard™ mobile cabinet	1010 H x 1000 W x 620 D



DEK VectorGuard™ working station

- Swift change of DEK VectorGuard™ stencils directly on the production line
- Lockable, anti-static ESD wheels
- Frame brackets on both cabinet sides for DEK VectorGuard™ frames
- Lockable drawers in three different sizes for organized arrangement of printing tools, for example:
 - Drawer 1: Spatulas, cleaning wipes and swabs, shift plan/ reports
 - Drawer 2: Magnet pins, DEK Grid-Lok™, board clamps, squeegee blades
 - Drawer 3: Cleaning media, precision wipes, dedicated tooling

DEK VectorGuard™ WORKING STATION			
Part number		Description	Size (mm)
SAP	DEK		
03130356	431188	DEK VectorGuard™ working station	928 H x 600 W x 750 D



DEK Mesh-mounted stencils or DEK Precision screens storage system

- Flexible storage solution for mesh-mounted stencils and emulsion screens in different sizes; can also accommodate DEK VectorGuard™ stencils
- Robust, stainless steel working surface to facilitate manual cleaning of stencils, squeegees and spatulas with different cleaning substances
- Multi-functional storage solution with drawer, adjustable panel below the drawer and squeegee bracket holder to store consumables and squeegees
- Anti-static, lockable wheels and doors for easy transportation through the production facility
- Optional 20 stencil/screen storage with no drawer or shelf

DEK MESH-MOUNTED STENCILS OR PRECISION SCREENS STORAGE SYSTEM			
Part number		Description	Size (mm)
SAP	DEK		
03130367	431256	Stencils and screens cabinet	1048 H x 1153 W x 808 D



ENABLING THE DIGITAL WORLD

ASM Consumables

Boosting throughput and yield for the SMT Smart Factory



ASM Consumables

**DEK Ultra-fine pitch (UFP)
ECO understencil cleaning rolls**

**DEK SMT high performance
understencil cleaning fabrics**

**DEK Pro and DEK Pro XF
advanced understencil cleaning chemistries**

DEK Pre-saturated wipes
DEK Hand cleaner wipes
DEK IPADI wipes
DEK Stencil cleaner wipes
DEK Adhesive remover wipes

DEK Cleaning sprays
DEK SMT stencil cleaner
DEK Reflow oven cleaner

DEK Gloves

DEK Latex gloves
DEK Powder-free blue nitrile gloves

DEK High-purity precision cleaning dry wipes

DEK Non-woven material wipes
DEK Polyester material wipes

DEK Precision swabs

DEK Foam Swabs

DEK Spatulas

DEK Solder paste nozzles

ASM Consumables

The quality and stability of the printing process greatly impacts efficiency and yield for the entire SMT line. With increasing miniaturization and component diversity, the printing process has become more complex than ever before.

In order to optimize the printing operation and realize the best results technically possible, harmonization of printing equipment, stencils, squeegees, tooling solutions and consumables is required. As the leading print process expert, ASM is the world's only equipment supplier that offers a comprehensive portfolio of process support products (PSPs) which enhance printing on DEK platforms, as well as equipment made by other manufacturers.

DEK Ultra-Fine Pitch (UFP) ECO understencil cleaning rolls

DEK UFP ECO rolls are designed to boost productivity and yield, reduce defects and decrease manufacturing costs.



The unique 3D architecture of DEK UFP ECO understencil cleaning rolls counters the risk of contamination as the fabric traps solder paste and solders balls within its pockets. This is a key differentiator from paper-based products that allow paste to remain on the surface of the paper, creating the potential for contamination. Consequently, DEK UFP ECO rolls not only ensure effective understencil cleaning, they also prevent contamination-related defects.

Ideal for ultra-fine-pitch apertures inherent with today's miniaturized devices, DEK UFP ECO rolls ensure a quick and effective clean. The hydrophilic properties of the fibers provide fast wicking, as solvent is delivered through the fabric to the bottom of stencil instantaneously so that cleaning is more thorough and solvent consumption is reduced.

Features and benefits

- Outstanding cleaning performance
- Reduced solvent consumption by an average of 50%
- Unique 3D structure traps solder particles away from the stencil, removing smear
- Ultra-low linting, Class 1000, ISO6 cleanroom compatible
- Enhanced vacuum performance
- Hydrophilic fiber structure for rapid solvent wicking
- ESD-safe packaging
- Improved process control
- Non-abrasive structure of fabric increases stencil and coating life
- Environmentally-friendly, chloride-free, recyclable
- Faster, more effective cleaning cycle leading to higher throughput



DEK UFP ECO UNDERSTENCIL CLEANING ROLLS							
Part number		Platform	Fabric width (mm)	Core width (mm)	Inner core diameter (mm)	Roll max outer diameter (mm)	Roll length (m)
SAP	DEK						
03128525	800071	DEK Micron	515	530	19	56	11
03128531	800072	DEK Micron	400	530	19	56	11
03130297	800073	DEK Micron	300	530	19	56	11
03239913	-	DEK TQ (NEW)	400	-	-	-	~ 22
03128585	800074	MPM	443	457	19.5	64	12
03131628	800075	MPM	443	457	19.5	100	44
03131629	800076	MPM	546	559	19.5	64	12
03131630	800077	EKRA	400	400	13	53	10
03131631	800078	EKRA	500	500	13	53	10
03131632	800080	Panasonic	365	380	19.5	64.5	15
03131633	800082	Yamaha	440	440	25.5	88	25
03131634	800083	Yamaha	530	530	25.5	88	25
03155072	800084	Yamaha	620	620	25.5	88	25

DEK SMT high performance understencil cleaning fabrics

DEK SMT high-performance understencil cleaning fabrics provide effective cleaning and compatibility with multiple print platforms.



Features and benefits:

- Absorbent, vacuum-friendly & fast-wicking
 - Special non-woven fabric construction reduces lint, preventing aperture blockages and contamination
 - Fabric does not compromise vacuum power, optimizing aperture cleaning performance
 - Wicks consistently across the full width of the cleaning roll to ensure even distribution of the cleaning agent for a more productive clean
 - Wick time is extremely fast compared to other cleaning fabrics
- Effective cleaning
 - Dry cycle in addition to Wet (Vac/Dry) cycle
 - Delivers a superior clean for underside of the stencil
- Broad machine compatibility
 - Suitable for DEK, MPM, Ekra and other on-board cleaning systems, in addition to advanced understencil cleaners such as DEK Cyclone technology
 - 11 meters minimum length reduces number of changeovers and total changeover time on DEK platforms
 - 44 meter length available for latest MPM platform

DEK SMT HIGH PERFORMANCE UNDERSTENCIL CLEANING FABRICS

Part number		Platform	Fabric width (mm)	Core width (mm)	Roll diameter (mm)	Inner core (mm)	Roll length (m)
SAP	DEK						
03127081	176215	DEK Micron	515	530	56	19	11
03128524	176216	DEK Micron	400	530	56	19	11
03128532	176217	DEK Micron	300	530	56	19	11
03128523	173826*	DEK Micron	515	530	56	19	11
03128538	431524	DEK Micron	607	620	56	19	11
03144917	431424	DEK Micron for Cyclone/Typhoon	300	325	56	19	11
03217296	–	DEK TQ (NEW)	400	–	–	–	~ 22
03131502	173451	AP series, UP series, SPM, MPM125, Accela, Momentum	320	457	64	19	12
03131501	173450	AP series, UP series, SPM, MPM125, Accela, Momentum	443	457	64	19	12
03139825	178911	AP series, UP series, SPM, MPM125, Accela, Momentum	597	622	64	19	12
03131512	178864	Accela, Momentum	443	457	100	19	44
03144221	178909	Accela, Momentum	546	559	100	19	44
03128533	178908	All Ekra In - Line printers	400	400	53	13	10
03131513	178907	All Ekra In - Line printers	500	500	53	13	10
03131611	431556	All Ekra In - Line printers	500	500	53	13	8

*With metallised anti-static packaging.

DEK Pro and DEK Pro XF advanced understencil cleaning chemistries

Designed specifically for understencil cleaning, DEK Pro and DEK Pro XF improve process performance and reduce print defects. They are safer, cleaner and more environmentally friendly than IPA and traditional solvent cleaners, and are compliant with all industry standards and environmental regulations.



Features and benefits:

- Prioritizes health, safety and the environment
 - DEK Pro XF has no flash point and is low VOC
 - DEK Pro has a high flash point of 67° C (IPA flash point is 12° C)
 - Safer to use, transport, store and dispose
 - Manufactured using biodegradable materials
- Reduce print defects
 - No impact on thixotropic properties of the solder paste
 - Reduce risk of solder slump and solder balling
 - Residue-free after evaporation
- Compliant and compatible
 - Compatible with all solder paste materials
 - RoHS and REACH compliant

DEK PRO ADVANCED UNDERSTENCIL CLEANING CHEMISTRIES

Part number		Description	Volume	Available for
SAP	DEK			
03129706	173483	DEK Pro cleaning agent	1 liter	Vacuum and non vacuum printers and manual cleaning
03129708	173485	DEK Pro cleaning agent	5 liters	Vacuum and non vacuum printers and manual cleaning
03130223	431093	DEK Pro cleaning agent	20 liters	Vacuum and non vacuum printers and manual cleaning

DEK PRO XF ADVANCED UNDERSTENCIL CLEANING CHEMISTRIES

Part number		Description	Volume	Available for
SAP	DEK			
03130225	431513	DEK Pro XF cleaning agent	1 liter	Vacuum printers
03126194	431514	DEK Pro XF cleaning agent	5 liters	Vacuum printers

DEK Pre-saturated wipes

Designed for fast and effective cleaning of stencil surfaces, adhesives and general cleaning applications, DEK pre-saturated cleaning wipes are ideal for quick clean-up on the line.



DEK IPA/DI wipes

DEK low-residue, rapid evaporation pre-saturated wipes are ideal for general cleaning applications. The cleaning solution is comprised of 70% Isopropyl alcohol and 30% de-ionized water and is excellent for removal of fluxes, light oils, polar soils and white mineral residue.

DEK Stencil cleaner wipes

Designed for fast, efficient surface cleaning of stencils and screens, DEK Stencil cleaner wipes are non-abrasive and pre-saturated with hydro-treated Naphtha, which effectively cleans most commercial solder pastes and inks.

DEK Hand cleaner wipes

Pre-saturated, disposable DEK Hand cleaner wipes are designed for use in any environment where cleanliness is required for handling critical components. The environmentally-safe, citrus-scented, low-linting wipes are easily dispensed and dry quickly after application.

DEK Adhesive remover wipes

DEK Adhesive remover wipes clean adhesives from the surface of stencils and screens. Specifically designed for use in SMT processes, the wipes are compatible with most commercial adhesives.

DEK HAND CLEANER WIPES				
Part number		Description	Unit	Box quantity
SAP	DEK			
03128534	115809	Hand clean wipes, 1 tub contains 100 wipes	Per tub	6 tubs
03132440	173280	Hand clean wipes refill, 1 pack contains 100 wipes	Per pack	10 packs

DEK IPA/DI WIPES (70% ISOPROPYL ALCOHOL 30% DE-IONISED WATER)				
Part number		Description	Unit	Box quantity
SAP	DEK			
03126895	115806	IPA/DI wipes, 1 tub contains 100 wipes	Per tub	6 tubs
03129703	173277	IPA/DI wipes refill, 1 pack contains 100 wipes	Per pack	10 packs

DEK STENCIL CLEANER WIPES				
Part number		Description	Unit	Box quantity
SAP	DEK			
03128526	115807	Stencil clean wipes, 1 tub contains 100 wipes	Per tub	6 tubs
03132439	173278	Stencil clean wipes refill, 1 pack contains 100 wipes	Per pack	10 packs

DEK ADHESIVE REMOVER WIPES				
Part number		Description	Unit	Box quantity
SAP	DEK			
03126751	115808	Adhesive remover wipes, 1 tub contains 100 wipes	Per tub	6 tubs
03128535	173279	Adhesive remover wipes refill, 1 pack contains 100 wipes	Per pack	10 packs

DEK Cleaning sprays

ASM's DEK maintenance cleaners have been designed to facilitate convenient cleaning of electronics assembly applications for improved productivity at the lowest possible cost.



DEK SMT stencil cleaner

A powerful and versatile, non-corrosive and residue-free cleaner suitable for stencils, webbing, frames and misprinted boards, DEK SMT stencil cleaner's hybrid formulation blends safe and non-flammable water-based ingredients with aggressive long-chain alcohol solvents.

Applications:

- Solder pastes, epoxies and inks
- Manual cleaning
- Automated understencil wipes
- Unheated ultrasonic cleaning systems
- Cold dip tanks
- Safe on all metals, synthetics, plastics and elastomers

DEK SMT STENCIL CLEANER			
Part number		Description	Unit
SAP	DEK		
03129695	173009	Can 470 ml (340 g/12 oz), standard case quantity 10 cans	Each
03134003	173042	1 US gallon (4 liters) refill	Each



DEK Reflow oven cleaner

This robust cleaner is a high-performance mix of water, alkaloids and long-chain alcohols to remove burned-on fluxes and residues. The DEK Reflow oven cleaner formulation uses residual oven heat to boost cleaning power, reducing cleaning time by as much as 50 % and preventing flux curing. The cleaner is non-flammable, quick-drying and ozone-safe.

Applications:

- Wave soldering machines
- Relow ovens
- Pick and place systems
- Metal pallets
- Heating elements
- Baffles & clamps
- Chains, pulleys, drive gears and housings

DEK REFLOW OVEN CLEANER			
Part number		Description	Unit
SAP	DEK		
03134011	173012	Can 470 ml (340 g/12 oz), standard case quantity 10 cans	Each
03134002	173045	1 US gallon (4 liters) refill	Each

DEK Gloves



DEK Latex gloves

Powder-free, polymer-coated, latex gloves combine economical single use protection from most acids and bases with comfort and flexibility. The proprietary Miracle Grip polymer coating offers a significantly enhanced wet/dry grip with excellent sensitivity.

Features and benefits

- Comfort, tactile sensitivity and ergonomic fit
- Go on easily, minimize skin-latex contact
- Maximize wet or dry grip
- Resist roll down
- Meet recognized tests and regulatory requirements

DEK LATEX GLOVES			
Part number		Description	Unit
SAP	DEK		
03134009	173015	9" polymer coated latex glove/MED	Bag 100
03134008	173016	9" polymer coated latex glove/LG	Bag 100
03134010	173017	9" polymer coated latex glove/XL	Bag 100



DEK Powder-free blue nitrile gloves

The affordable choice for consistency, performance and reliability, DEK nitrile gloves are manufactured to ensure a tough, durable glove, free of chemical odors and harsh, irritating deodorants. Stronger than either comparable latex or PVC/vinyl gloves, blue nitrile gloves provide excellent splash and contact protection from a wide range of chemicals. Textured palms and fingers offer exceptional wet or dry grip.

Features and benefits

- Pure, 100 % nitrile polymer; absolutely no natural rubber latex proteins
- Medical grade for top performance
- Comfortable – flexible silky feel eliminates the tiring, constant hand pressure of latex gloves
- Rugged – three times more puncture resistant than vinyl or natural rubber latex gloves of equal thickness
- Economical – outperforms PVC and latex for reduced overall glove consumption

DEK POWDER-FREE BLUE NITRILE GLOVES			
Part number		Description	Unit
SAP	DEK		
03134006	173018	9" powder free blue nitrile glove/SM	Box 100
03134005	173019	9" powder free blue nitrile glove/MED	Box 100
03129696	173020	9" powder free blue nitrile glove/LG	Box 100
03134004	173021	9" powder free blue nitrile glove/XL	Box 100

DEK High-purity precision cleaning dry wipes

DEK wipes feature non-woven and polyester technologies to maximize effectiveness and prevent contamination. They are designed, manufactured and packaged with precision to serve various cleaning and maintenance requirements.



DEK Non-woven material wipes

DEK Non-woven material wipes are made from a unique blend of cellulose and polyester to provide maximum absorbency, low particle generation and affordability. Most of the DEK Non-woven wipes are packaged in a cleanroom for use in Class 100 applications.

DEK Polyester material wipes

DEK Polyester material wipes are perfect for cleanroom applications – including optical work. The wipes are pre-cut and packaged in a cleanroom for use in Class 10 environments. Polyester wipes provide superior scrubbing capability with no lint left behind.

DEK HIGH-PURITY PRECISION CLEANING DRY WIPES			
Part number		Description	Unit
SAP	DEK		
03134066	115825	Wipes, med absorb, poly blend (15 x15 cm)	Bag 50
03134065	115826	Wipes, med absorb, poly blend (23 x 23 cm)	Bag 300
03134063	115829	Wipes, quilted absorb, (20 x 20 cm)	Bag 100
03134062	115832	Wipes, optical cleanroom poly (23 x 23 cm)	Bag 150
03130306	431088R	Cleanroom dry wipes 23 x 23 cm / 9" x 9"	Bag 150

DEK Precision swabs

DEK Precision swabs are designed, manufactured and packaged to provide high-quality, economical solutions for various cleaning and maintenance requirements in SMT and clean room applications, or anywhere that cleaning is directly related to accuracy.



DEK Precision swabs have tips that are heat-sealed to the handles to avoid contamination and adhesive compatibility issues. The materials have been selected to provide the best flexibility and durability.

DEK Foam swabs

The foam swab is an excellent general-purpose swab for cleaning small and confined areas. Its laundered foam head possesses good absorbing capacity and cushioning. A compact, rigid handle and round internal head core provide firm support.

DEK PRECISION SWABS			
Part number		Description	Unit
SAP	DEK		
03134060	115840	Swab, foam LG. PDLE. HD 16 x 25 mm, L-13 cm	Bag 50
03134059	115841	Swab, foam SLM - HD 12 x 25 mm, L-12 cm	Bag 50
03134058	115842	Swab, foam NRW - HD 4 x 12 mm, L- 9 cm	Bag 50
03134057	115843	Swab, foam MED - HD 6 x 19 mm, L-11 cm	Bag 50
03129391	115846	Swab, cot wood handle SM HD 4 x1 2 mm L-14 cm	Bag 1000
03133861	115850	Swab, laundered poly, SM HD 2 x 12 mm, L-7 cm	Bag 50
03128530	431415	Cleanroom foam swab, ESD handle	Bag 25
03128545	431416	Cleanroom foam swab, ESD handle	Bag 100

DEK Spatulas

DEK Spatulas are color-coded to ensure isolated use with appropriate materials and are an essential tool on the line. Light and durable, the polypropylene spatulas are shatterproof and flexible for long-lasting performance.



Features and benefits

- Constructed of durable polypropylene
- Shatterproof and flexible
- Easy to grip
- Less likely than metal spatulas to scratch the stencil surface
- Easily cleaned with DEK pre-saturated wipes
- Wide blade width for more efficient clearing of solder paste

Available in three, color-coded versions:

- White for standard production purposes and use with lead-containing paste
- Lead-free green
- Anti-static black

DEK SPATULAS			
Part number		Description	Unit
SAP	DEK		
03128570	173737	White spatula	Bag of 5
03128559	173788	Green spatula	Bag of 5
03129776	173825	Black ESD spatula	Bag of 5

DEK Solder paste nozzles

DEK Solder paste nozzles have been designed to facilitate solder paste cartridge changeover more cleanly and efficiently than conventional re-usable nozzles.



DEK Solder paste nozzles easily snap into place, making the cartridge immediately ready for use with on-board printer auto-dispense technologies. These easy-to-use nozzles eliminate clean-up of internal threads and solder paste drip, which are common side effects of threaded dispense tip installation.

With this unique design, manufacturers can reduce process costs, lower material waste and limit operator intervention.

Features and benefits

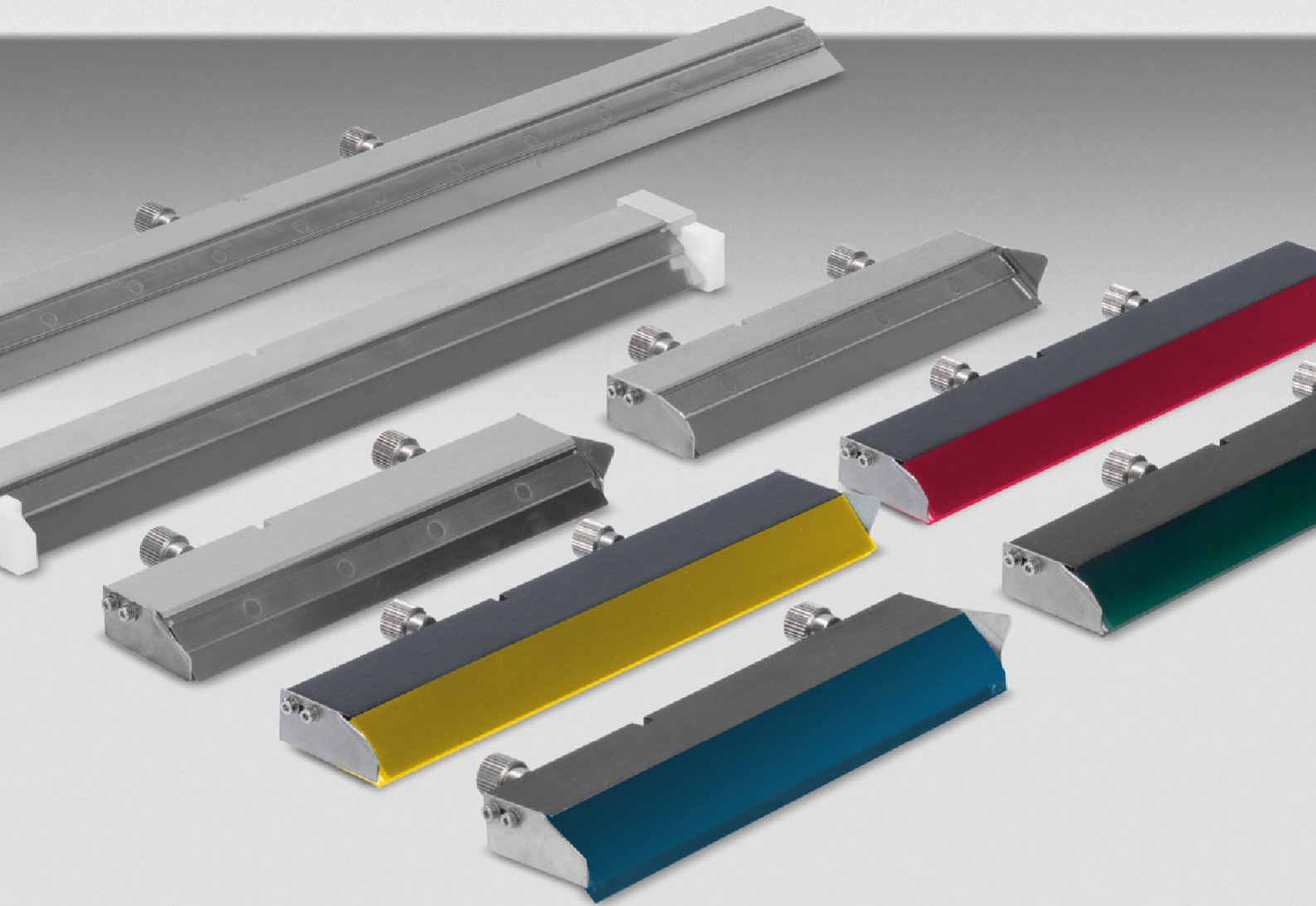
- Color-coded: Visual identification of leaded and lead-free solder pastes.
- Non-drip: Paste flow is more controlled and excess material reduced; 'X' low profile promotes paste mixing during solder bead deposition.
- Disposable: Simple, reduced-cost nozzles can be disposed of with the empty solder paste tube. Eliminates messy, time-consuming nozzle changes. Compatible with SEMCO® type paste tubes.
- Low waste and anti-mix strategy compliant: Compact format reduces the amount of paste 'in transit' through the nozzle. Disposable design ensures no cross contamination of paste types.



DEK SOLDER PASTE NOZZLES			
Part number		Description	Unit
SAP	DEK		
03131635	800120	Paste nozzles green (lead-free)	500
03131636	800125	Paste nozzles red (lead-rich)	500
03128678	800121	Paste nozzles green evaluation pack	25
03128629	800126	Paste nozzles red evaluation pack	25



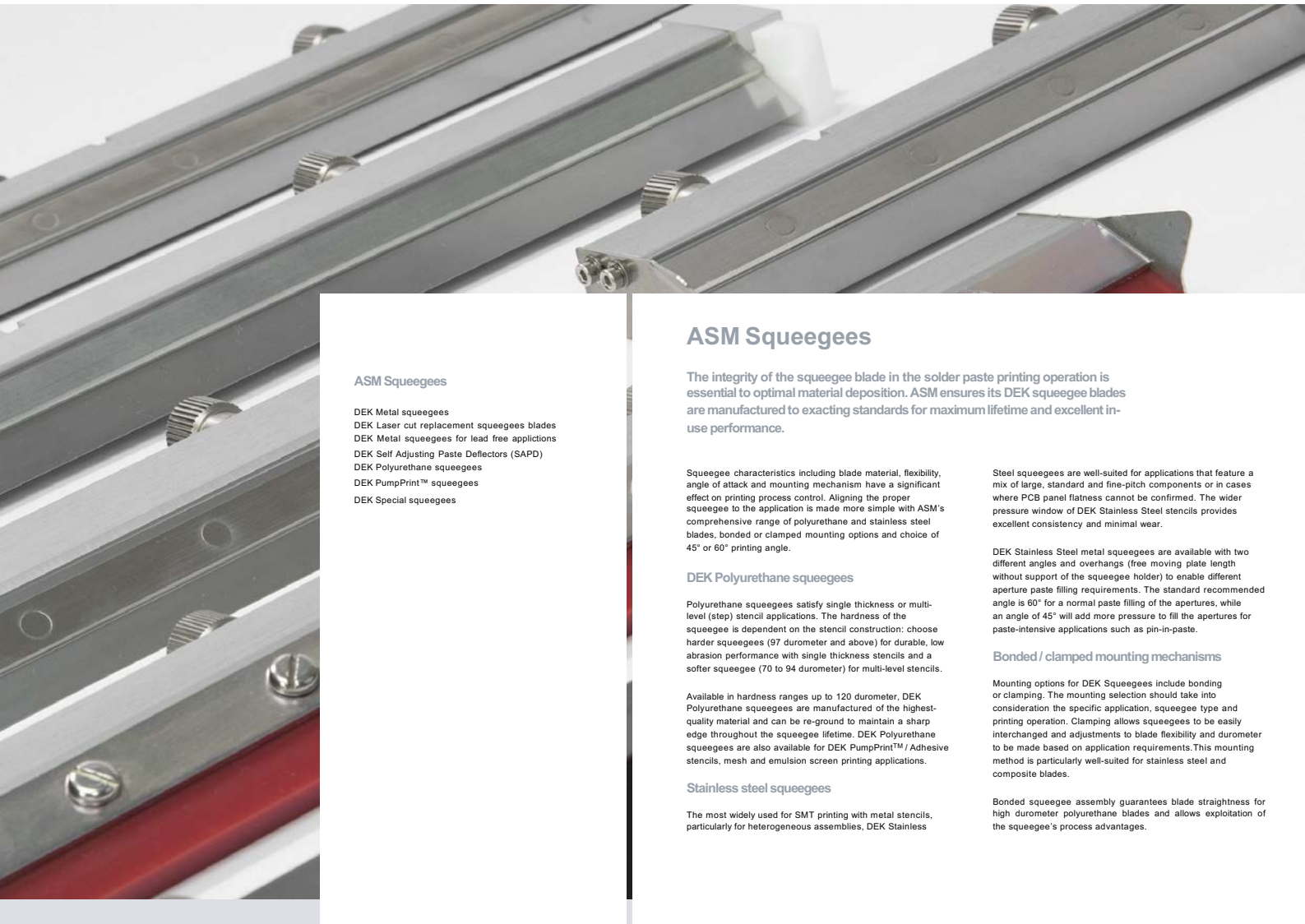
ASM



ENABLING THE DIGITAL WORLD

ASM Squeegees

Enabling a perfect print process



ASM Squeegees

- DEK Metal squeegees
- DEK Laser cut replacement squeegees blades
- DEK Metal squeegees for lead free applications
- DEK Self Adjusting Paste Deflectors (SAPD)
- DEK Polyurethane squeegees
- DEK PumpPrint™ squeegees
- DEK Special squeegees

ASM Squeegees

The integrity of the squeegee blade in the solder paste printing operation is essential to optimal material deposition. ASM ensures its DEK squeegee blades are manufactured to exacting standards for maximum lifetime and excellent in-use performance.

Squeegee characteristics including blade material, flexibility, angle of attack and mounting mechanism have a significant effect on printing process control. Aligning the proper squeegee to the application is made more simple with ASM's comprehensive range of polyurethane and stainless steel blades, bonded or clamped mounting options and choice of 45° or 60° printing angle.

DEK Polyurethane squeegees

Polyurethane squeegees satisfy single thickness or multi-level (step) stencil applications. The hardness of the squeegee is dependent on the stencil construction: choose harder squeegees (97 durometer and above) for durable, low abrasion performance with single thickness stencils and a softer squeegee (70 to 94 durometer) for multi-level stencils.

Available in hardness ranges up to 120 durometer, DEK Polyurethane squeegees are manufactured of the highest-quality material and can be re-ground to maintain a sharp edge throughout the squeegee lifetime. DEK Polyurethane squeegees are also available for DEK PumpPrint™ / Adhesive stencils, mesh and emulsion screen printing applications.

Stainless steel squeegees

The most widely used for SMT printing with metal stencils, particularly for heterogeneous assemblies, DEK Stainless

Steel squeegees are well-suited for applications that feature a mix of large, standard and fine-pitch components or in cases where PCB panel flatness cannot be confirmed. The wider pressure window of DEK Stainless Steel stencils provides excellent consistency and minimal wear.

DEK Stainless Steel metal squeegees are available with two different angles and overhangs (free moving plate length without support of the squeegee holder) to enable different aperture paste filling requirements. The standard recommended angle is 60° for a normal paste filling of the apertures, while an angle of 45° will add more pressure to fill the apertures for paste-intensive applications such as pin-in-paste.

Bonded / clamped mounting mechanisms

Mounting options for DEK Squeegees include bonding or clamping. The mounting selection should take into consideration the specific application, squeegee type and printing operation. Clamping allows squeegees to be easily interchanged and adjustments to blade flexibility and durometer to be made based on application requirements. This mounting method is particularly well-suited for stainless steel and composite blades.

Bonded squeegee assembly guarantees blade straightness for high durometer polyurethane blades and allows exploitation of the squeegee's process advantages.

DEK Metal squeegees



METAL CLAMPED SQUEEGEES 60° ~ 6 MM OVERHANG			
Part number			
SAP	DEK	Size	Unit
03130417	SQA310	170 mm	Pair
03130418	SQA311	200 mm	Pair
03130419	SQA312	250 mm	Pair
03130420	SQA313	300 mm	Pair
03130421	SQA314	350 mm	Pair
03130422	SQA315	400 mm	Pair
03141733	SQA316	440 mm	Pair
03130423	SQA317	483 mm	Pair
03130424	SQA318	510 mm	Pair
03130425	SQA319	535 mm	Pair

METAL CLAMPED SQUEEGEES 60° ~ 15 MM OVERHANG			
Part number			
SAP	DEK	Size	Unit
03130412	SQA300	170 mm	Pair
03130413	SQA301	200 mm	Pair
03128793	SQA302	250 mm	Pair
03128626	SQA303	300 mm	Pair
03128609	SQA304	350 mm	Pair
03128658	SQA305	400 mm	Pair
03128797	SQA306	440 mm	Pair
03130414	SQA307	483 mm	Pair
03130415	SQA308	510 mm	Pair
03130416	SQA309	535 mm	Pair

45° METAL CLAMPED SQUEEGEES			
Part number			
SAP	DEK	Size	Unit
03130430	SQA350	170 mm	Pair
03130431	SQA351	200 mm	Pair
03130432	SQA352	250 mm	Pair
03130433	SQA353	300 mm	Pair
03130434	SQA354	350 mm	Pair
03130435	SQA355	400 mm	Pair
03130436	SQA356	440 mm	Pair
03130504	SQA357	483 mm	Pair
03130437	SQA358	510 mm	Pair
03130438	SQA359	535 mm	Pair

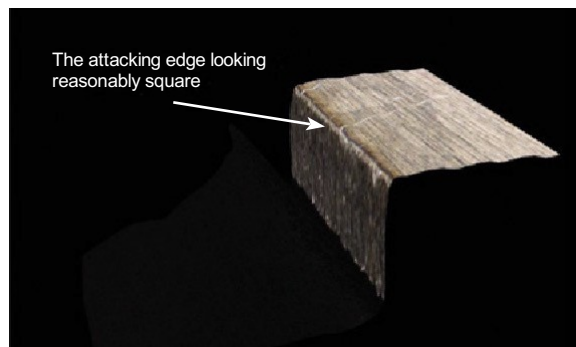
DEK Laser cut replacement squeegee blades

The new generation of laser cut squeegee replacement blades ensuring an improved paste transfer with little to no paste smearing. Reduces both defect count and operator intervention. Produced with an optimised laser setup to ensure the highest quality; reliability, repeatability and accuracy.

Features and benefits:

- Reduced paste smear
- More consistent paste roll control
- Reduced cleaning frequency
- Short lead times

60° REPLACEMENT LASER CUT BLADES			
Part number			
SAP	DEK	Size	Unit
03165892	129924	170 mm	Each
03165893	129925	200 mm	Each
03165894	133584	250 mm	Each
03165895	133585	300 mm	Each
03165896	129926	350 mm	Each
03165897	133586	400 mm	Each
03165898	129927	440 mm	Each
03165899	133587	483 mm	Each
03165900	133588	510 mm	Each
03165901	129928	535 mm	Each



45° REPLACEMENT LASER CUT BLADES			
Part number			
SAP	DEK	Size	Unit
03166893-01	133601	170 mm	Each
03168405-01	133602	200 mm	Each
03168555-01	133603	250 mm	Each
03168791-01	133604	300 mm	Each
03169303-01	133605	350 mm	Each
03169341-01	133606	400 mm	Each
03169513-01	133607	440 mm	Each
03170087-01	133608	483 mm	Each
03170351-01	133609	510 mm	Each
03172721-01	133610	535 mm	Each

DEK Metal squeegees for lead free applications



LEAD FREE REPLACEMENT BLADES			
Part number			
SAP	DEK	Size	Unit
03130219	431001	200 mm	Each
03128589	431002	250 mm	Each
03130220	431003	300 mm	Each
03128577	431004	350 mm	Each
03130221	431005	400 mm	Each
03130340	431006	440 mm	Each

LEAD FREE METAL CLAMPED SQUEEGEES 60° ~ 6 MM OVERHANG			
Part number			
SAP	DEK	Size	Unit
03130452	SQAG311	200 mm	Pair
03130453	SQAG312	250 mm	Pair
03130454	SQAG313	300 mm	Pair
03128618	SQAG314	350 mm	Pair
03130455	SQAG315	400 mm	Pair
03130456	SQAG316	440 mm	Pair

- Anodised Green
- Chromium Blades (CrN) ~ 1.5 microns

LEAD FREE METAL CLAMPED SQUEEGEES 60° ~ 15 MM OVERHANG			
Part number			
SAP	DEK	Size	Unit
03130447	SQAG301	200 mm	Pair
03130448	SQAG302	250 mm	Pair
03130449	SQAG303	300 mm	Pair
03128716	SQAG304	350 mm	Pair
03130450	SQAG305	400 mm	Pair
03130451	SQAG306	440 mm	Pair
03141830	SQAG307	483 mm	Pair

- Anodised Green
- Chromium Blades (CrN) ~ 1.5 microns

DEK Self Adjusting Paste Deflectors (SAPDs)

SAPDs enable the customer to change the print pressure without needing to adjust the height of the paste deflectors reducing risk of stencil damage and reducing cost through lessening material waste.



SAPDs are ideal for solder paste printing on SMT boards with pressure forces between 0 and 20 kg to improve the level of process control and reduce solder paste waste. The profile and structure of the deflectors ensure that the paste does not escape outward during the printing process. This cuts down on wasted paste (faster ROI) and drastically reduces printing problems resulting from dried paste on the edges. The bottom line: more performance from the first print to the last.

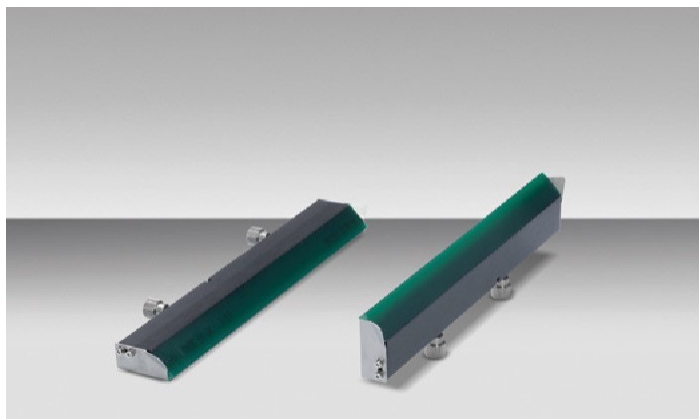
There is no set up required per product, so risk of stencil coining due to product changeover is eliminated. The deflectors can be removed from the assembly without the need of tools with the simple 'clip-in' design, therefore increasing cleanliness of the squeegee/ deflector interface.

Features and benefits

- Drastically reduction of paste wastage through much reduced tram lines.
- Fast Return on Invest because of much reduced paste wastage
- More consistent paste roll
- Reduced operator intervention
- Increased ease of cleaning
- Less risk of cross-contamination due to their enclosed system, ease of cleaning and ability to 'clip' in new deflectors per product.

DEK SELF ADJUSTING PASTE DEFLECTORS (SAPD)			
Part number			
SAP	DEK	Description	Unit
03162490-01	602428*1	Self adjusting paste deflectors MPU (2x left hand, 2x right hand)	Set of 4
03162487-01	226587	Paste deflector kit	Set of 2
03162489-01	225974	Left hand paste deflector	Each
03162488-01	225973	Right hand paste deflector	Each

DEK Polyurethane squeegees

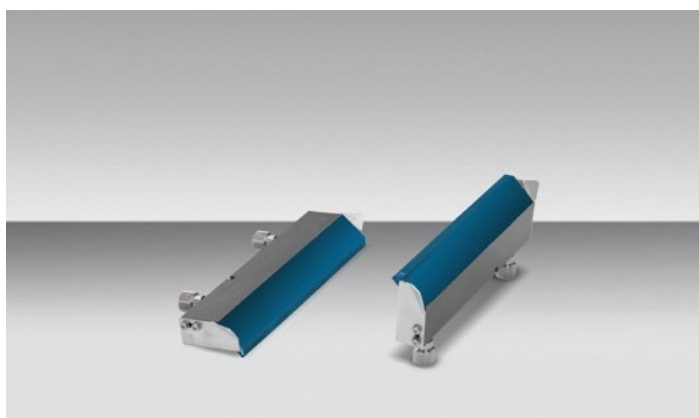


POLYURETHANE BONDED SQUEEGEES GREEN 70-75 SHORE HARDNESS ~ 45°

Part number			
SAP	DEK	Size	Unit
03136509	SQA248	100 mm	Pair
03130492	SQA254	150 mm	Pair
03130403	SQA161	170 mm	Pair
03130488	SQA167	200 mm	Pair
03130406	SQA174	250 mm	Pair
03130398	SQA152	300 mm	Pair
03130408	SQA185	350 mm	Pair
03142810	SQA190	400 mm	Pair
03138030	SQA201	440 mm	Pair
03130490	SQA210	483 mm	Pair
03142818	SQA219	510 mm	Pair
03141708	SQA231	535 mm	Pair

POLYURETHANE BONDED SQUEEGEES GREEN 70-75 SHORE HARDNESS ~ 60°

Part number			
SAP	DEK	Size	Unit
03134708	SQA260	100 mm	Pair
03130494	SQA266	150 mm	Pair
03142810	SQA119	170 mm	Pair
03131308	SQA120	200 mm	Pair
03128791	SQA139	250 mm	Pair
03130400	SQA155	300 mm	Pair
03128789	SQA121	350 mm	Pair
03130409	SQA196	400 mm	Pair
03130391	SQA122	440 mm	Pair
03131649	SQA136	483 mm	Pair
03142819	SQA225	510 mm	Pair
03138819	SQA123	535 mm	Pair



POLYURETHANE BONDED SQUEEGEES BLUE 75-80 SHORE HARDNESS ~ 45°

Part number			
SAP	DEK	Size	Unit
03142348	SQA247	100 mm	Pair
03131654	SQA253	150 mm	Pair
03131650	SQA160	170 mm	Pair
03130404	SQA166	200 mm	Pair
03131651	SQA173	250 mm	Pair
03142286	SQA151	300 mm	Pair
03130407	SQA184	350 mm	Pair
03131652	SQA189	400 mm	Pair
03142811	SQA200	440 mm	Pair
03142815	SQA209	483 mm	Pair
03142817	SQA218	510 mm	Pair
03141707	SQA230	535 mm	Pair

POLYURETHANE BONDED SQUEEGEES
BLUE 75-80 SHORE HARDNESS ~ 60°

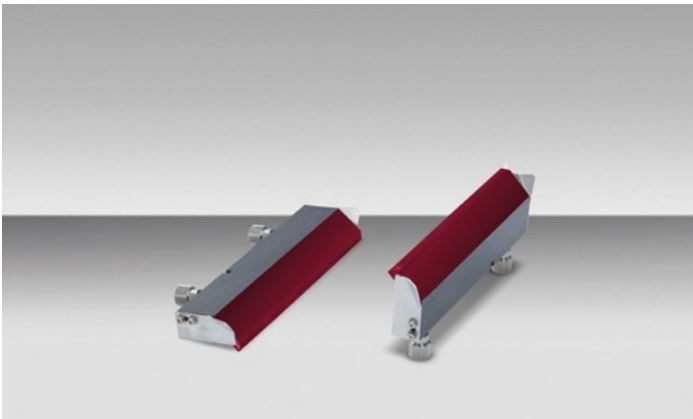
Part number			
SAP	DEK	Size	Unit
03130493	SQA259	100 mm	Pair
03136233	SQA265	150 mm	Pair
03130392	SQA124	170 mm	Pair
03130393	SQA125	200 mm	Pair
03130396	SQA138	250 mm	Pair
03128686	SQA154	300 mm	Pair
03130394	SQA126	350 mm	Pair
03130489	SQA195	400 mm	Pair
03128715	SQA127	440 mm	Pair
03130483	SQA131	483 mm	Pair
03130491	SQA224	510 mm	Pair
03141770	n.a.	535 mm	Pair
03141569	SQA487	580 mm	Pair
03141884	SQA483	610 mm	Pair

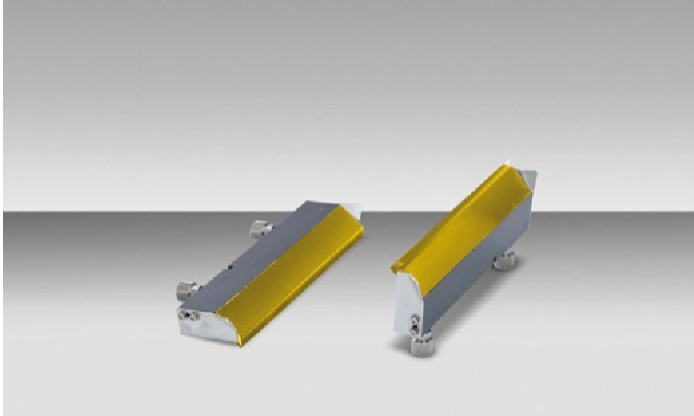
POLYURETHANE BONDED SQUEEGEES
PINK 94-97 SHORE HARDNESS ~ 45°

Part number			
SAP	DEK	Size	Unit
03142884	SQA246	100 mm	Pair
03142226	SQA252	150 mm	Pair
03130486	SQA159	170 mm	Pair
03142232	SQA140	200 mm	Pair
03139258	SQA172	250 mm	Pair
03130485	SQA150	300 mm	Pair
03142820	SQA229	350 mm	Pair
03130484	SQA147	400 mm	Pair
03142875	SQA130	440 mm	Pair
03142814	SQA208	483 mm	Pair
03142880	SQA217	510 mm	Pair
03142820	SQA229	535 mm	Pair

POLYURETHANE BONDED SQUEEGEES
PINK 94-97 SHORE HARDNESS ~ 60°

Part number			
SAP	DEK	Size	Unit
03141449	SQA258	100 mm	Pair
03130411	SQA264	150 mm	Pair
03130389	SQA117	170 mm	Pair
03137799	SQA113	200 mm	Pair
03130395	SQA137	250 mm	Pair
03130399	SQA153	300 mm	Pair
03131648	SQA110	350 mm	Pair
03139906	SQA194	400 mm	Pair
03139907	SQA116	440 mm	Pair
03142876	SQA132	483 mm	Pair
03142882	SQA223	510 mm	Pair
03142874	SQA112	535 mm	Pair
03141571	SQA491	580 mm	Pair
03141883	SQA482	610 mm	Pair





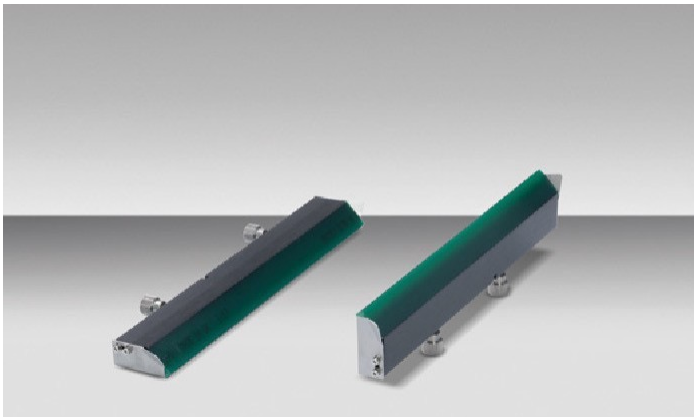
POLYURETHANE BONDED SQUEEGEES
YELLOW 120 SHORE HARDNESS ~ 45°

Part number			
SAP	DEK	Size	Unit
03142821	SQA245	100 mm	Pair
03136182	SQA251	150 mm	Pair
03130401	SQA158	170 mm	Pair
03142806	SQA141	200 mm	Pair
03142877	SQA171	250 mm	Pair
03142808	SQA178	300 mm	Pair
03142228	SQA142	350 mm	Pair
03142809	SQA188	400 mm	Pair
03142257	SQA199	440 mm	Pair
03142813	SQA207	483 mm	Pair
03142816	SQA216	510 mm	Pair
03142883	SQA228	535 mm	Pair

POLYURETHANE BONDED SQUEEGEES
YELLOW 120 SHORE HARDNESS ~ 60°

Part number			
SAP	DEK	Size	Unit
03142885	SQA257	100 mm	Pair
03142306	SQA263	150 mm	Pair
03130487	SQA164	170 mm	Pair
03131336	SQA168	200 mm	Pair
03142878	SQA177	250 mm	Pair
03131337	SQA181	300 mm	Pair
03131338	SQA186	350 mm	Pair
03131653	SQA193	400 mm	Pair
03142812	SQA204	440 mm	Pair
03142879	SQA213	483 mm	Pair
03142881	SQA222	510 mm	Pair
03131339	SQA234	535 mm	Pair

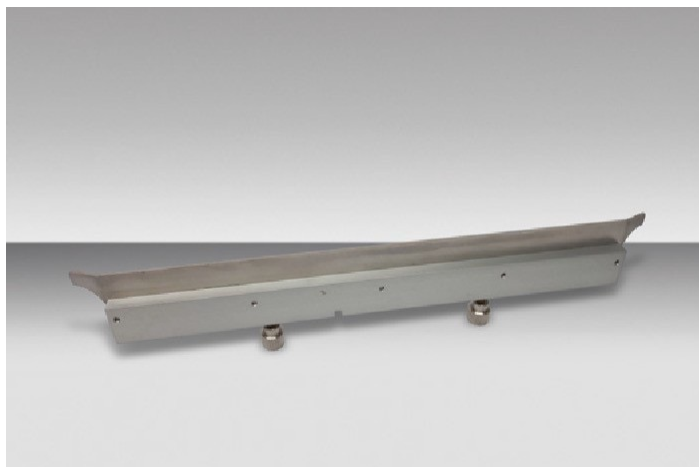
DEK PumpPrint™ squeegees



DEK PUMPPRINT™ SQUEEGEES FOR GLUE PRINTING

Part number			
SAP	DEK	Size	Unit
03142822	SQA455	170 mm	Pair
03130505	SQA456	200 mm	Pair
03130439	SQA457	250 mm	Pair
03130440	SQA458	300 mm	Pair
03130441	SQA459	350 mm	Pair
03130442	SQA460	400 mm	Pair
03130506	SQA461	440 mm	Pair
03130507	SQA462	483 mm	Pair
03142202	SQA463	510 mm	Pair
03142823	SQA464	535 mm	Pair

NEW: DEK Special squeegees



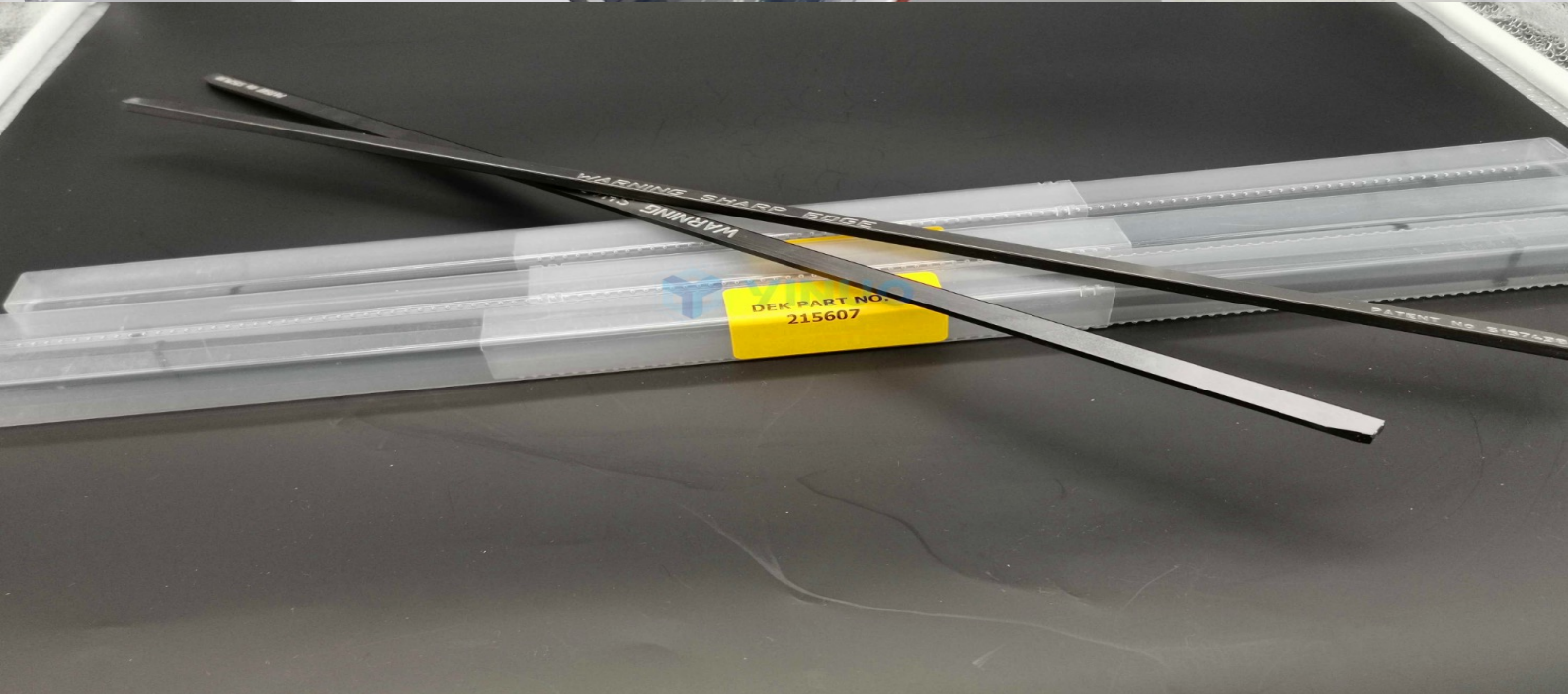
In addition to the standard stainless steel and rubber squeegees, ASM offers a variety of other types of squeegees for applications such as:

- Screen printing
- Wafer coating

SPECIAL SQUEEGEES					
Part number					
SAP	DEK	Size	Description	Application	Unit
3141152	208226	180 mm	Diamond squeegee blade 9.5 mm Polyurethane, RED	Screen printing	Each
3141953	213699	180 mm	Diamond squeegee blade 9.5 mm Polyurethane, Blue	Screen printing	Each
3141511	SQA102	200 mm	Diamond squeegee with Polyurethane Blade, Pink	Screen printing	Each
3141603	SQA104	350 mm	Diamond squeegee with Polyurethane Blade, Pink	Screen printing	Each
3141062	FBA062	450 mm	Flood bar squeegee incl. stainless steel blade	Screen printing	Each
3139877	FBA047	170 mm	Flood bar squeegee incl. stainless steel blade	Screen printing	Each
3130445	SQA544	250 mm	Half round squeegee assembly	Semiconductor like wafer coating	Each
3130446	SQA545	330 mm	Half round squeegee assembly	Semiconductor like wafer coating	Each
3144432	S4922	350 mm	Polyurethane replacement blade for Diamond squeegee, Green	Screen printing	Each
3141668	163424	450 mm	Replacement blade for flood squeegee assembly	Screen printing	Each
3161783	107805	535 mm	Replacement blade for flood squeegee assembly	Screen printing	Each

 temple4

ASM



ENABLING THE DIGITAL WORLD

DEK Board Clamps

Enabling a perfect print process

DEK APC (All Purpose Clamping) Board Clamps



Printing close to the edge

- DEK APC (All Purpose Clamping) is DEK’s new universal clamping system. The board can be clamped top-down and/or laterally (snugging). Additionally, the over-top clamps can be retracted if required.

DEK APC delivers many benefits:

- Retracting of the over-top clamps allows for high-quality printing close to the edge
- The flexible clamps secure the clamping of warped boards from the top
- DEK APC automatically adjusts to the board’s thickness
- The clamping pressure is controlled and can be stored in the product file. The settings will be applied automatically for subsequent production runs.
- You save time and improve printing quality



DEK Printer board clamps			
Part Number			
SAP	DEK	Description	Unit
03128529	215607	Board Clamp 500mm	Set of 2
00178275	178275	Board Clamp 340mm	Set of 2
03128550	215613	Board Clamp 250mm	Set of 2



ASM Process Support
Products Website

www.asm-psp.com



ASM Process Support
Products Webshop

[www.asm-smt.com/de/
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