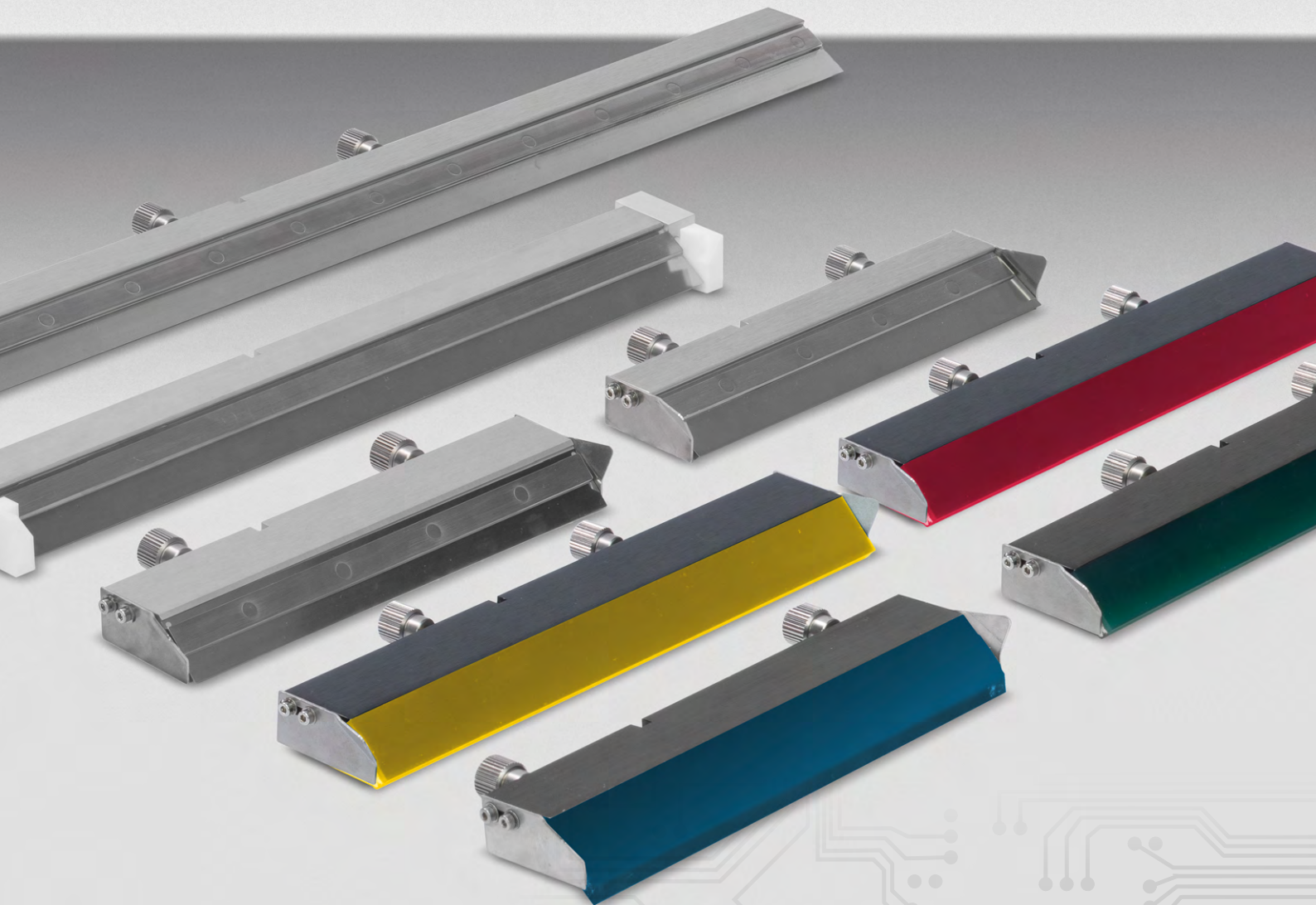


ASMP enabling the
digital world



Squeegees

Enabling a perfect print process



Squeegees

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Squeegees

The integrity of the squeegee blade in the solder paste printing operation is essential to optimal material deposition. ASMPT 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 ASMPT'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
88SQA310	SQA310	170 mm	Pair
88SQA311	SQA311	200 mm	Pair
88SQA312	SQA312	250 mm	Pair
88SQA313	SQA313	300 mm	Pair
88SQA314	SQA314	350 mm	Pair
88SQA315	SQA315	400 mm	Pair
88SQA316	SQA316	440 mm	Pair
88SQA317	SQA317	483 mm	Pair
88SQA318	SQA318	510 mm	Pair
88SQA319	SQA319	535 mm	Pair

METAL CLAMPED SQUEEGEES 60° ~ 15 MM OVERHANG

Part number			
SAP	DEK	Size	Unit
88SQA300	SQA300	170 mm	Pair
88SQA301	SQA301	200 mm	Pair
88SQA302	SQA302	250 mm	Pair
88SQA303	SQA303	300 mm	Pair
88SQA304	SQA304	350 mm	Pair
88SQA305	SQA305	400 mm	Pair
88SQA306	SQA306	440 mm	Pair
88SQA307	SQA307	483 mm	Pair
88SQA308	SQA308	510 mm	Pair
88SQA309	SQA309	535 mm	Pair
03264271	-	560 mm	Pair
03264296	-	570 mm	Pair

45° METAL CLAMPED SQUEEGEES

Part number			
SAP	DEK	Size	Unit
88SQA350	SQA350	170 mm	Pair
88SQA351	SQA351	200 mm	Pair
88SQA352	SQA352	250 mm	Pair
88SQA353	SQA353	300 mm	Pair
88SQA354	SQA354	350 mm	Pair
88SQA355	SQA355	400 mm	Pair
88SQA356	SQA356	440 mm	Pair
88SQA357	SQA357	483 mm	Pair
88SQA358	SQA358	510 mm	Pair
88SQA359	SQA359	535 mm	Pair

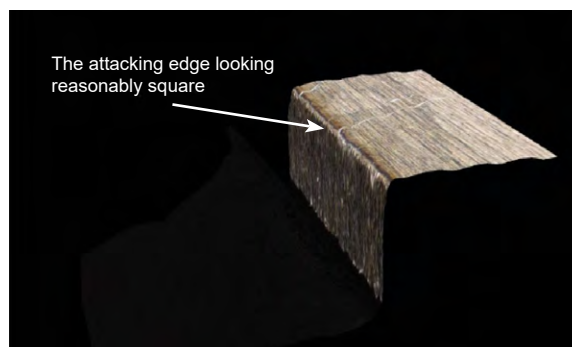
DEK Laser cut replacement squeegee blades

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:

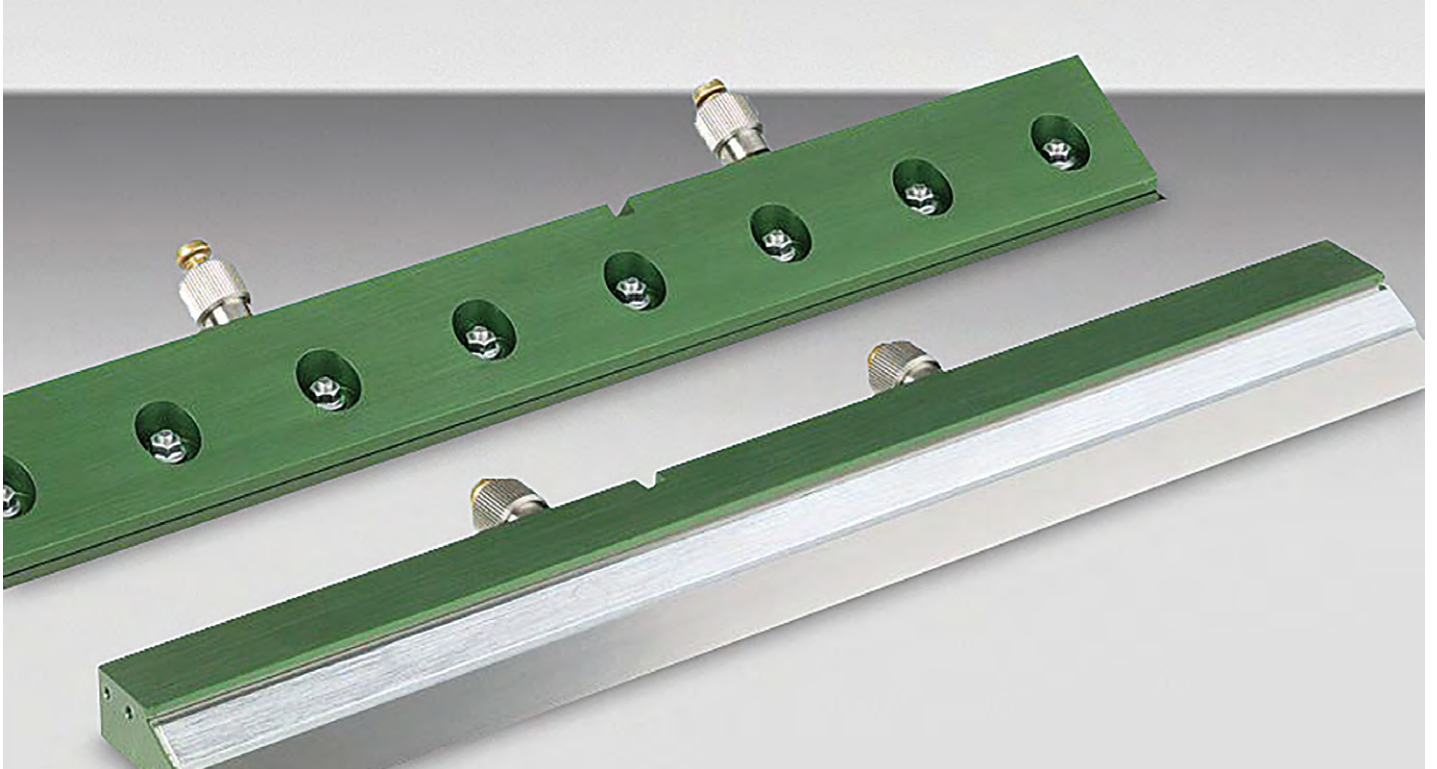
- Reduced paste smear
- More consistent paste roll control
- Reduced cleaning frequency
- Short lead times

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
03264122	-	560 mm	Each
03264188	-	575 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 (FIT BOTH 60° AND 45°)			
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
03143610	-	483 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.

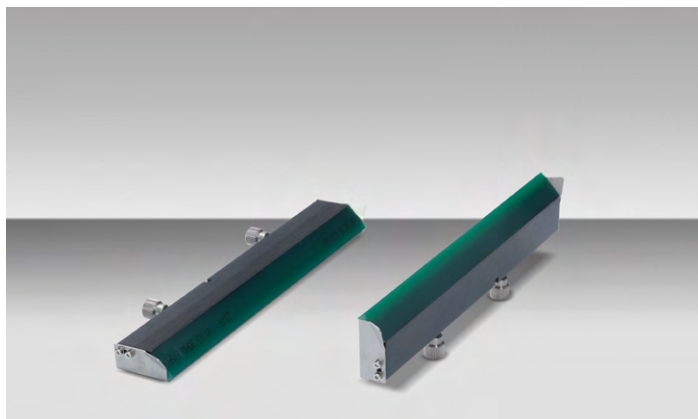
There is no set up required per product, so risk of stencil coining due to product changeover is eliminated. The deflectors can be removed from the assembly without the need of tools with the simple 'clip-in' design, therefore increasing cleanliness of the squeegee/ deflector interface.

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.
- Suitable for metal squeegees and lead free squeegees

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

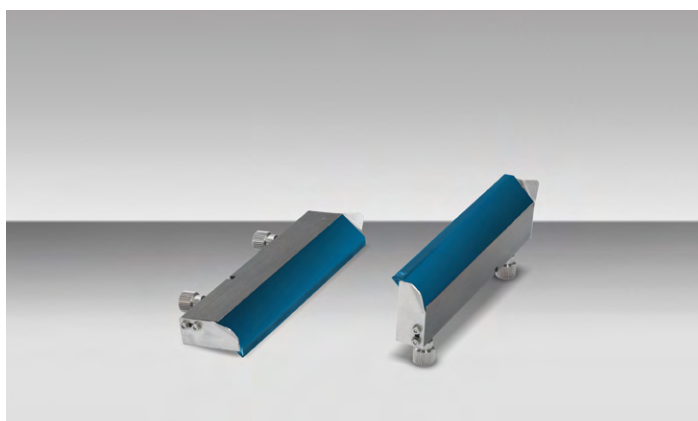


POLYURETHANE BONDED SQUEEGEES GREEN 70-75 SHORE HARDNESS ~ 45°

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°

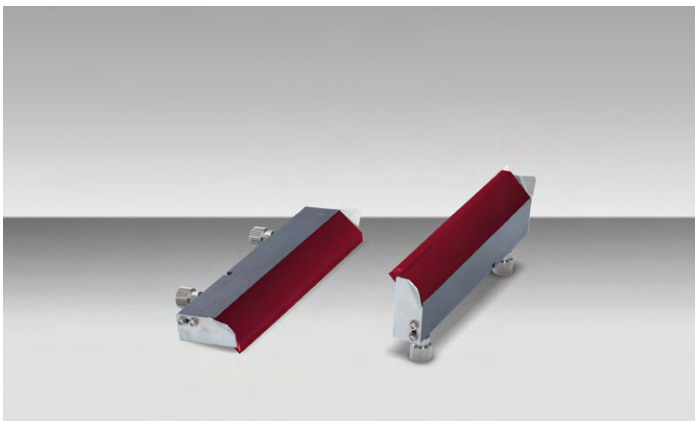
Part number			
SAP	DEK	Size	Unit
03130493	SQA259	100 mm	Pair
03136233	SQA265	150 mm	Pair
03130392	SQA124	170 mm	Pair
03130393	SQA125	200 mm	Pair
03130396	SQA138	250 mm	Pair
03128686	SQA154	300 mm	Pair
03130394	SQA126	350 mm	Pair
03130489	SQA195	400 mm	Pair
03128715	SQA127	440 mm	Pair
03130483	SQA131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

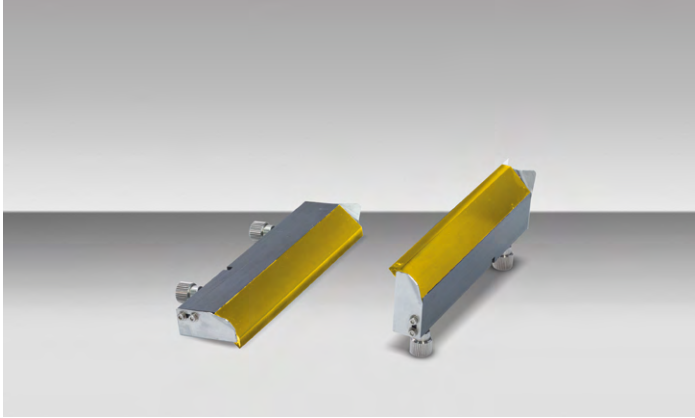
POLYURETHANE BONDED SQUEEGEES
PINK 94-97 SHORE HARDNESS ~ 45°

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





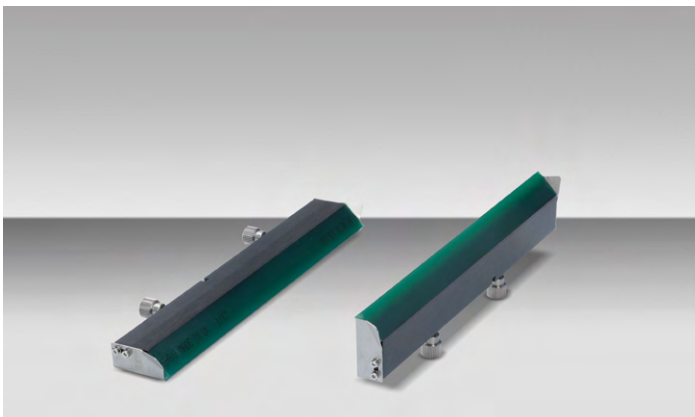
**POLYURETHANE BONDED SQUEEGEES
YELLOW 120 SHORE HARDNESS ~ 45°**

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

DEK Special squeegees



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

- Screen printing
- Wafer coating

SPECIAL SQUEEGEES					
Part number		Size	Description	Application	Unit
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

* Only compatible for Eclipse printers

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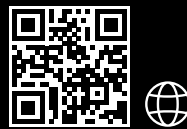
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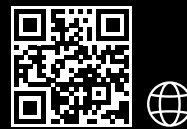
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