

Accessory Catalogue 2019

Ersa Soldering Machines



Selective soldering nozzles, lubricants & cleaning products, flux, solder bath maintenance, fluxer accessories, printers, solder frames, auxiliaries, supplies and more



Nozzle overview for solderpot B22		H=47	H=52	H=57
		possible z-drive (mm)	possible z-drive (mm)	possible z-drive (mm)
Frame	SMARTFLOW	60	55	50
	ECOSELECT 1	60	55	50
	ECOSELECT 1 Z variable	30	25	20
Roller conveyor	ECOCELL	60	55	50
	ECOCELL Z variabel	30	25	20
	VERSAFLOW 3	60	55	50
	VERSAFLOW 3 Z variable	30	25	20
	ECOSELECT 4	60	55	50
	VERSAFLOW 4	60	55	50
	ECOSELECT 2	60	55	50
Chain conveyor	ECOSELECT 2 Z variable	30	25	20
	ECOCELL	60	55	50
	ECOCELL Z variable	30	25	20

Suitable gassing cap for the respective nozzle size:

242715 (D24)	242746 (D34)	252131 (D42)	ID / OD	H=47	H=52	H=57
●			2,0/4,5	213510		
●			2,4/5,0	296767		
●			2,7/5,5	296788		
●			3,5/5,6			
●			3,0/6,0	114609	289012	130964
●			3,5/7,0	256501		
●			4,0/8,0	114611	300889	189478
●			5,0/9,0	152894		
●			6,0/10,0	114613		189479
●			8,0/12,0	118615		203778
	●		10,0/14,0	119274 257563		320491
	●		12,0/16,0	208094		
	●		14,0/18,0	190959		
	●		16,0/20,0	245562 263686		
	●		18,0/20,0	134354		
		●	18,0/22,0	255046		
		●	21,0/25,0	260489 263020		
		●	23,0/25,0	239623		
		●	25,0/29,0	245561 263514		
		●	28,0/32,0	248298		
		●	31,0/35,0	255975 263689		

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Selective Soldering Nozzles

Finger Conveyor = (M)
 Roller Conveyor = (R)
 Pin Chain Conveyor = (K)

	Nozzle height	with variable Z-Axis		Nozzle height	with variable Z-Axis
ECOSELECT 1	≤ 90 mm (M)	≤ 57 mm (M)	SMARTFLOW	≤ 75 mm (M)	-----
ECOSELECT 2	≤ 75 mm (K)	≤ 57 mm (K)	VERSAFLOW 3	≤ 85 mm (R)	≤ 57 mm (R)
ECOSELECT 4	≤ 85 mm (R)	≤ 85 mm (R)	VERSAFLOW 4	≤ 85 mm (R)	≤ 85 mm (R)
ECOCELL	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

Height 47 mm, B22

S NOZZLE 2,0/4,5; H=47; B22

213510 1 Pcs.

S NOZZLE 2,4/5,0; H=47; B22

296767 1 Pcs.

S NOZZLE 2,7/5,5; H=47; B22

296788 1 Pcs.

S NOZZLE 3,0/6,0; H=47; B22

114609 1 Pcs.

S NOZZLE 3,5/7,0; H=47; B22

256501 1 Pcs.

S NOZZLE 4,0/8,0; H=47; B22

114611 1 Pcs.

S NOZZLE 5,0/9,0; H=47; B22

152894 1 Pcs.

S NOZZLE 6,0/10,0; H=47; B22

114613 1 Pcs.

S NOZZLE 8,0/12,0; H=47; B22

118615 1 Pcs.

S NOZZLE 10,0/14,0; H=47; B22

119274 1 Pcs.

S NOZZLE 10,0/14,0; H=47; B22; Cross

257563 1 Pcs.

S NOZZLE 12,0/16,0; H=47; B22

208094 1 Pcs.

S NOZZLE 14,0/18,0; H=47; B22

190959 1 Pcs.

S NOZZLE 16,0/20,0; H=47; B22; Cross

245562 1 Pcs.

S NOZZLE 16,0/20,0; H=47; B22; Cross

263686 1 Pcs.

S NOZZLE 18,0/20,0; H=47; B22

134354 1 Pcs.

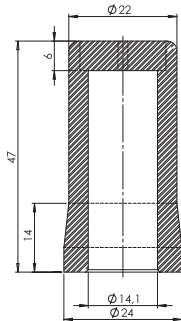
Selective Soldering Nozzles

Finger Conveyor = (M)
 Roller Conveyor = (R)
 Pin Chain Conveyor = (K)

	Nozzle height	with variable Z-Axis		Nozzle height	with variable Z-Axis
ECOSELECT 1	≤ 90 mm (M)	≤ 57 mm (M)	SMARTFLOW	≤ 75 mm (M)	-----
ECOSELECT 2	≤ 75 mm (K)	≤ 57 mm (K)	VERSAFLOW 3	≤ 85 mm (R)	≤ 57 mm (R)
ECOSELECT 4	≤ 85 mm (R)	≤ 85 mm (R)	VERSAFLOW 4	≤ 85 mm (R)	≤ 85 mm (R)
ECOCCELL	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

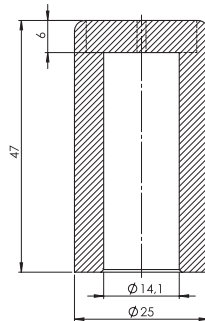
Height 47 mm, B22

S NOZZLE 18,0/22,0; H=47; B22; Cross



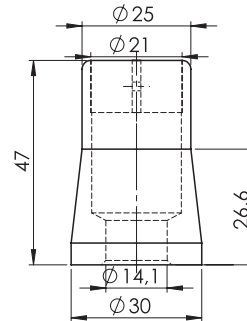
255046 1 Pcs.

S NOZZLE 21,0/25,0; H=47; B22



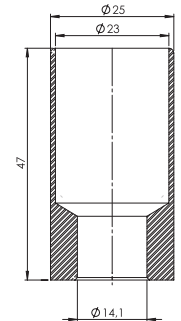
260489 1 Pcs.

S NOZZLE 21,0/25,0; H=47; B22; Cross



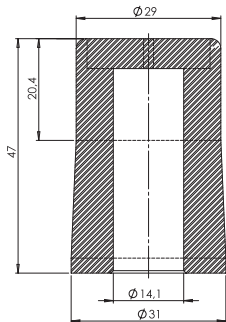
263020 1 Pcs.

S NOZZLE 23,0/25,0; H=47; B22



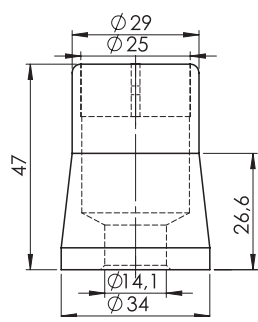
239623 1 Pcs.

S NOZZLE 25,0/29,0; H=47; B22; Cross



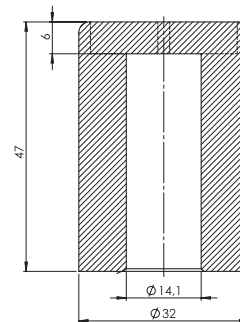
245561 1 Pcs.

S NOZZLE 25,0/29,0; H=47; B22; Cross



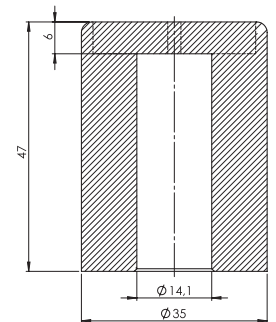
263514 1 Pcs.

S NOZZLE 28,0/32,0; H=47; B22; Cross



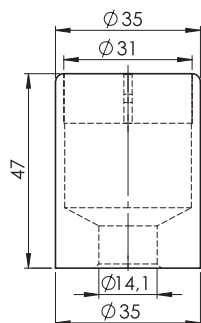
248298 1 Pcs.

S NOZZLE 31,0/35,0; H=47; B22; Cross



255975 1 Pcs.

S NOZZLE 31,0/35,0; H=47; B22; Cross



263689 1 Pcs.

Selective Soldering Nozzles

Finger Conveyor = (M)
 Roller Conveyor = (R)
 Pin Chain Conveyor = (K)

	Nozzle height	with variable Z-Axis		Nozzle height	with variable Z-Axis
ECOSELECT 1	≤ 90 mm (M)	≤ 57 mm (M)	SMARTFLOW	≤ 75 mm (M)	-----
ECOSELECT 2	≤ 75 mm (K)	≤ 57 mm (K)	VERSAFLOW 3	≤ 85 mm (R)	≤ 57 mm (R)
ECOSELECT 4	≤ 85 mm (R)	≤ 85 mm (R)	VERSAFLOW 4	≤ 85 mm (R)	≤ 85 mm (R)
ECOCELL	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

Please note:
 at a nozzle height higher than 47 mm a consultation with Erska is recommended

Height 52 mm, B22

S NOZZLE 3,0/6,0; H=52; B22

289012	1 Pcs.
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S NOZZLE 4,0/8,0; H=52; B22

300889	1 Pcs.
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Height 57 mm, B22

S NOZZLE 3,0/6,0; H=57; B22

130964	1 Pcs.
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S NOZZLE 4,0/8,0; H=57; B22

189478	1 Pcs.
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Height 57 mm, B22

S NOZZLE 6,0/10,0; H=57; B22

189479	1 Pcs.
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S NOZZLE 8,0/12,0; H=57; B22

203778	1 Pcs.
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S NOZZLE 10,0/14,0; H=57; B22

320491	1 Pcs.
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Height 62 mm, B22

S NOZZLE 2,0/4,5; H=62; B22

248354	1 Pcs.
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Height 62 mm, B22

S NOZZLE 3,0/6,0; H=62; B22

199983	1 Pcs.
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S NOZZLE 4,0/8,0; H=62; B22

199985	1 Pcs.
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S NOZZLE 6,0/10,0; H=62; B22

199984	1 Pcs.
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S NOZZLE 8,0/12,0; H=62; B22

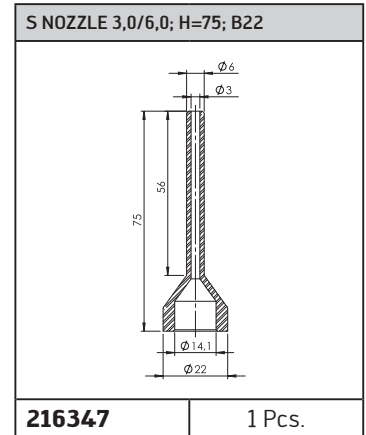
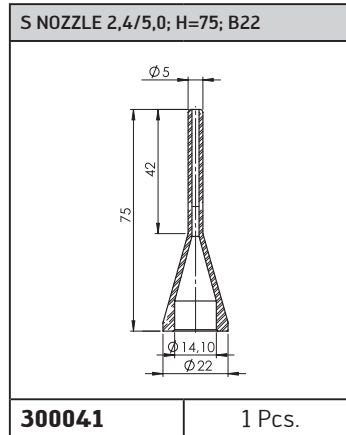
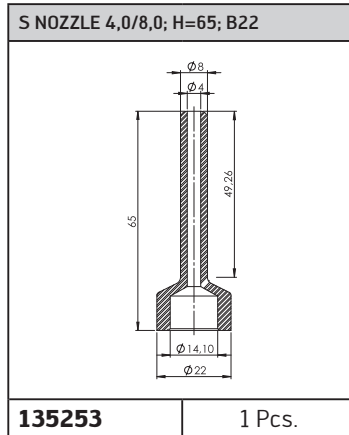
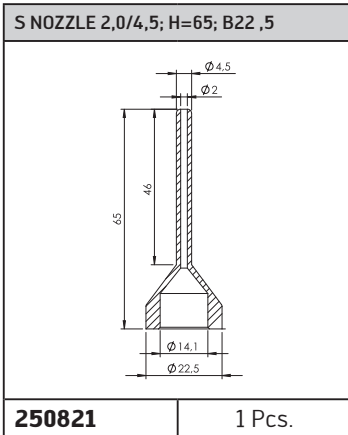
197404	1 St.
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Selective Soldering Nozzles

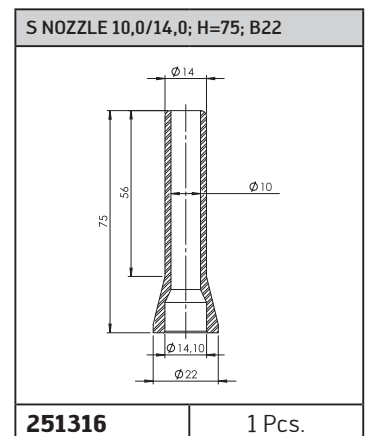
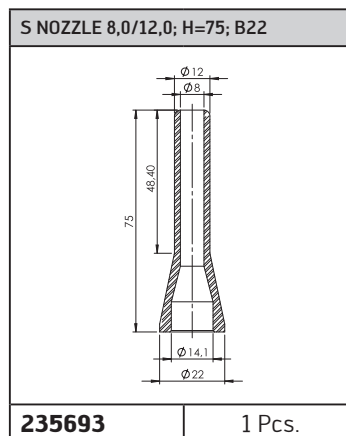
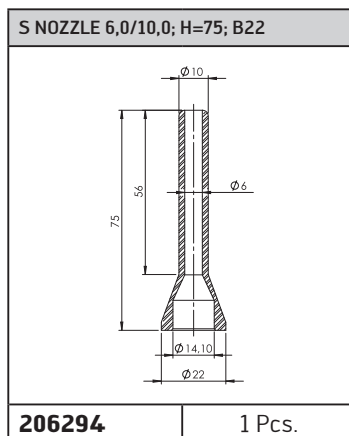
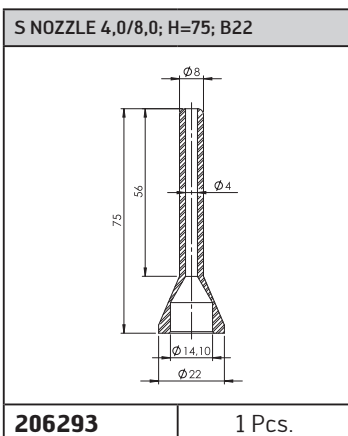
Finger Conveyor = (M)
 Roller Conveyor = (R)
 Pin Chain Conveyor = (K)

	Nozzle height	with variable Z-Axis		Nozzle height	with variable Z-Axis
ECOSELECT 1	≤ 90 mm (M)	≤ 57 mm (M)	SMARTFLOW	≤ 75 mm (M)	-----
ECOSELECT 2	≤ 75 mm (K)	≤ 57 mm (K)	VERSAFLOW 3	≤ 85 mm (R)	≤ 57 mm (R)
ECOSELECT 4	≤ 85 mm (R)	≤ 85 mm (R)	VERSAFLOW 4	≤ 85 mm (R)	≤ 85 mm (R)
ECOCCELL	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

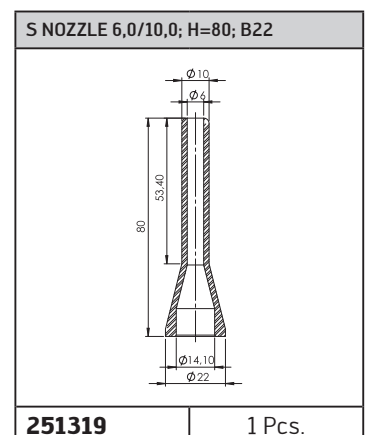
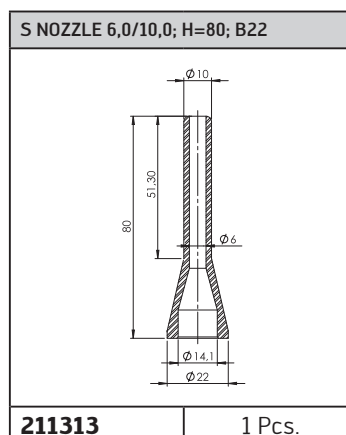
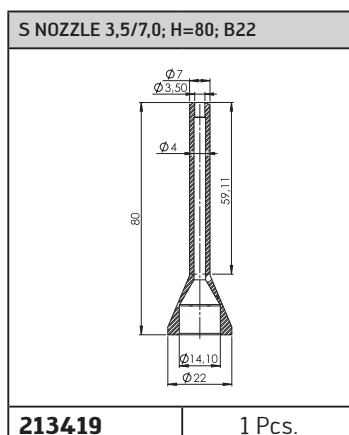
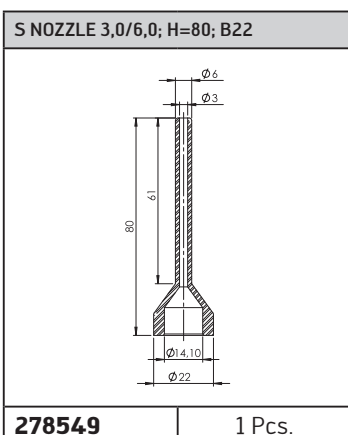
Height 65 mm, B22



Height 75 mm, B22



Height 80 mm, B22

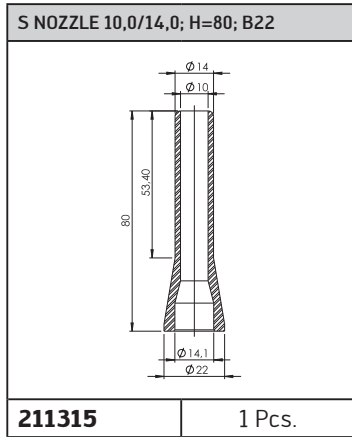
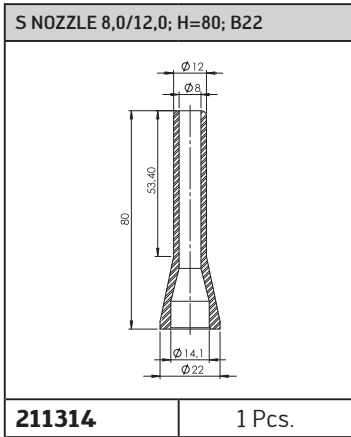


Selective Soldering Nozzles

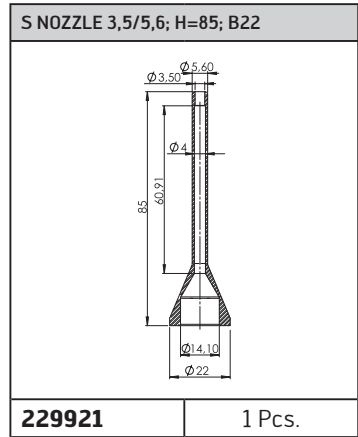
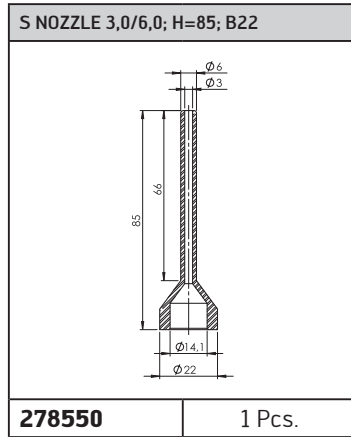
Finger Conveyor = (M)
 Roller Conveyor = (R)
 Pin Chain Conveyor = (K)

	Nozzle height	with variable Z-Axis		Nozzle height	with variable Z-Axis
ECOSELECT 1	≤ 90 mm (M)	≤ 57 mm (M)	SMARTFLOW	≤ 75 mm (M)	-----
ECOSELECT 2	≤ 75 mm (K)	≤ 57 mm (K)	VERSAFLOW 3	≤ 85 mm (R)	≤ 57 mm (R)
ECOSELECT 4	≤ 85 mm (R)	≤ 85 mm (R)	VERSAFLOW 4	≤ 85 mm (R)	≤ 85 mm (R)
ECOCELL	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

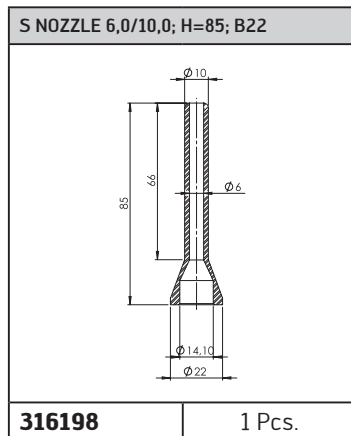
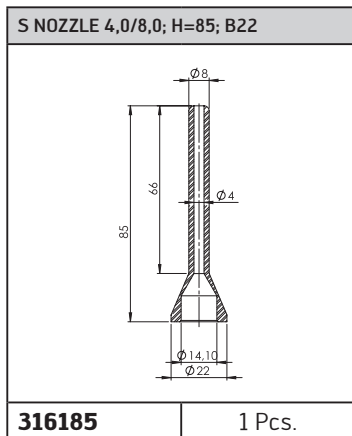
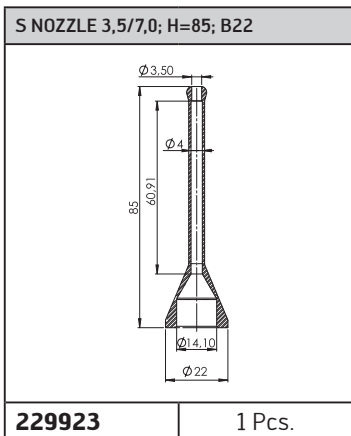
Height 80 mm, B22



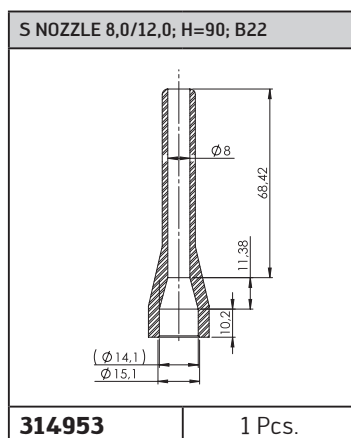
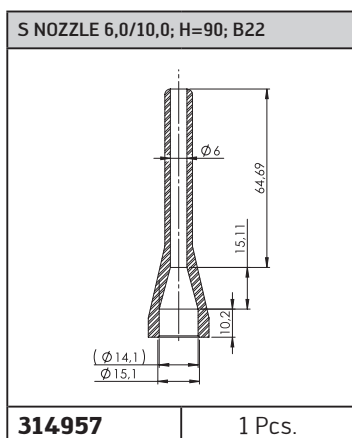
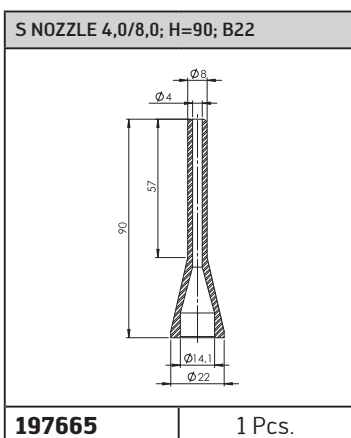
Height 85 mm, B22



Height 85 mm, B22



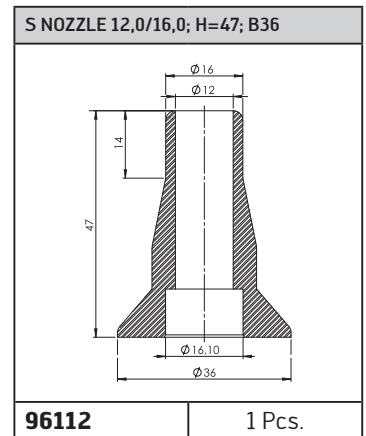
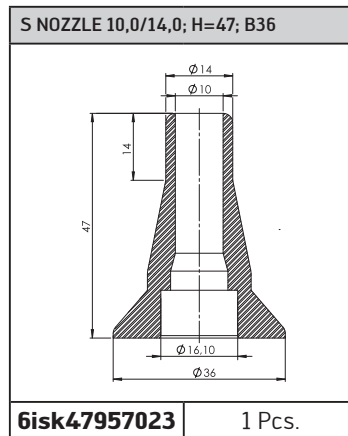
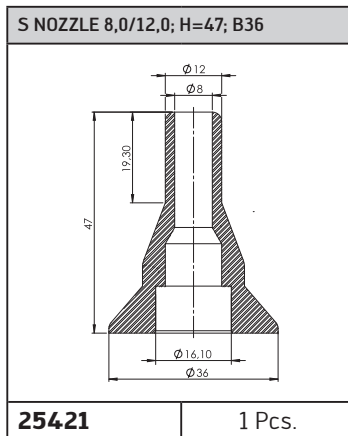
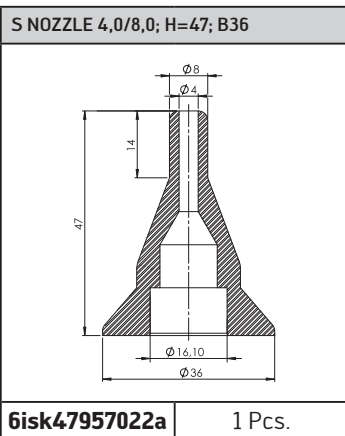
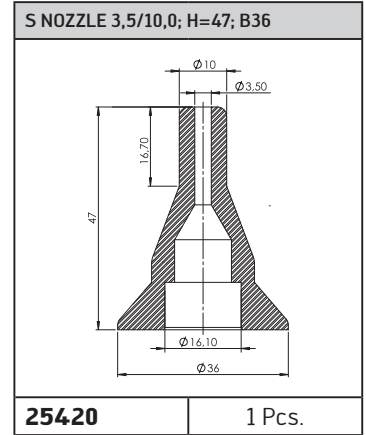
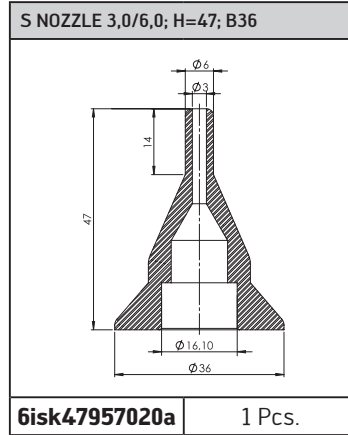
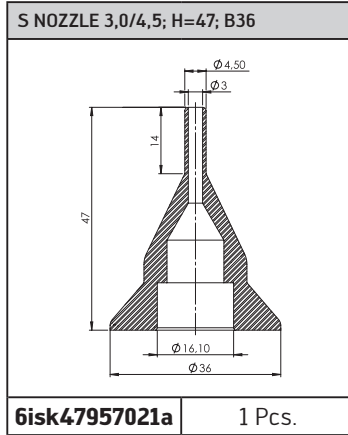
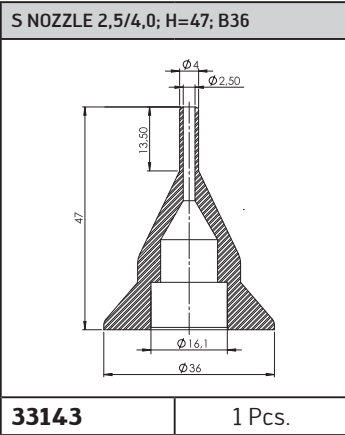
Height 90 mm, B22



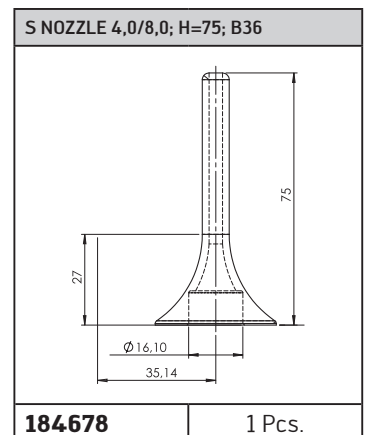
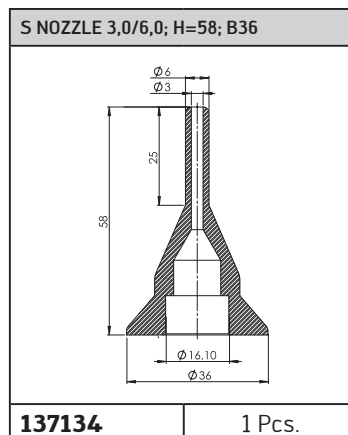
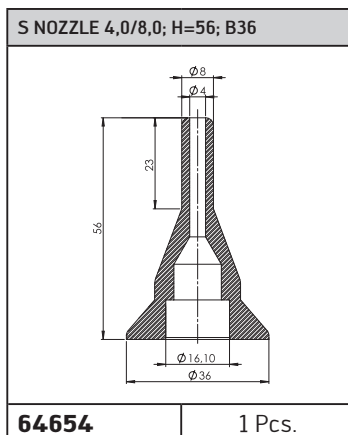
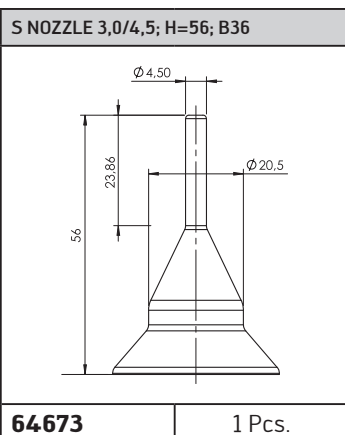
Finger Conveyor = (M)
 Roller Conveyor = (R)
 Pin Chain Conveyor = (K)

	Nozzle height	with variable Z-Axis		Nozzle height	with variable Z-Axis
ECOSELECT 1	≤ 90 mm (M)	≤ 57 mm (M)	SMARTFLOW	≤ 75 mm (M)	-----
ECOSELECT 2	≤ 75 mm (K)	≤ 57 mm (K)	VERSAFLOW 3	≤ 85 mm (R)	≤ 57 mm (R)
ECOSELECT 4	≤ 85 mm (R)	≤ 85 mm (R)	VERSAFLOW 4	≤ 85 mm (R)	≤ 85 mm (R)
ECOCCELL	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

Height 47 mm, B36



Height 56 mm, B36



Height 58 mm, B36

Height 75 mm, B36

Selective Soldering Nozzles

Finger Conveyor = (M)
 Roller Conveyor = (R)
 Pin Chain Conveyor = (K)

	Nozzle height	with variable Z-Axis		Nozzle height	with variable Z-Axis
ECOSELECT 1	≤ 90 mm (M)	≤ 57 mm (M)	SMARTFLOW	≤ 75 mm (M)	-----
ECOSELECT 2	≤ 75 mm (K)	≤ 57 mm (K)	VERSAFLOW 3	≤ 85 mm (R)	≤ 57 mm (R)
ECOSELECT 4	≤ 85 mm (R)	≤ 85 mm (R)	VERSAFLOW 4	≤ 85 mm (R)	≤ 85 mm (R)
ECOCELL	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

Height 85 mm, B36

S NOZZLE 4,0/8,0; H=85; B36

138145 1 Pcs.

S NOZZLE 4,0/8,0; H=85; B36

184677 1 Pcs.

Height 90 mm, B36

S NOZZLE 4,0/8,0; H=90; B36

162216 1 Pcs.

S NOZZLE 4,3/8,0; H=90; B36

168373 1 Pcs.










S NOZZLE 6,0/10,0; H=90; B36

162195 1 Pcs.



S NOZZLE 6,2/10,0; H=90; B36

168446 1 Pcs.




Lubricants

Figure	Description	Order No.
	High temperature cain oil	
	LUBCON - special oil, Turmofluid 40B, 0,4 l Spraycan	6XOEL24-0.4S
	LUBCON - special oil, Turmofluid 40B, 0,5 l bottle	6XOEL24-0.5
	High temperature grease UH1-96-402	
	delivery in tubes with 80 g	171146
	OKS 250 Metal-free multi paste	
	250 g	210939
	tube 80 g and 5 lube brushes	211218
	80 ml - unsuitable by direct contact with solder	216540
	Grease TAS-WT till 1400 °C - 100 g tube	
	LUBCON - special lubricant, TURMO-PAST TAS WT, paste without dropping points. Temperature application range -30 °C up to +1400 °C (higher tahn 200 °C: the paste turns to a dry lubrication)	28444
	Spindle grease, 50 g	
	NBU 15 for lubrication of the shaft from the z-axis (Flex and dipmodul) in selective and wave soldering machines	210860
	Grease gun filled w. Isoflex NBU15	
	contain 50 g grease	210996
	Lubrication set Isoflex NBU15	
	tube 50 g and lube brush	214163
	Grease Klueber Microlube GL 261 40 g	
	Lubrication of linear track with high stress	210862
	Pencil for grease	
		211209
	Grease gun	
	Pressol plunger push press with cupped and pointed adapter, connection thread M10x1 size 80 cm³ AD43 mm L = 140 mm	92159

Lubricants

Figure	Description	Order No.
	Klüberplex BEM 34-132	
	1 kg tin	343055
	grease gun	
	empty for parker axis VF4	343049
	hand lever grease gun with snout (empty)	
	for z-axis of the selective solder pot	343056
	High temp. grease Barrierta tube 50 gr.	
	for filling the high temperature bearing 6LAP40-15FD-T	163081

Cleaning Products

Figure	Description	Order No.
	ESD-Cleaner 1 l	
	for cleaning of ESD- slices - not suitable for acrylic slices	211125
	Reinigungsset Acrylscheiben + ESD Folie	
	ESD - cleaner with mircofiber high resistance cloth	211214
	cleaning cloth vermap-Softy	
	for cleaning of acrylic glass slices in machine covers in conjunction with cleaner 211125	211207
	Cleaning cloth for sprayheads	
	cleaning clothes lint-free, 100x100	17231
	Syggol Cleaner in 5 l CAN	
	Cleaner for high contamination especially in reflow- and wave soldering machines.	302619

Low Residue - No-Clean Flux

Figure	Description	Order No.
	Flux IF 2005M	
	1,8 % solid content suitable for wave soldering leaded and lead-free	
	10 l Can	4FMJF2005-10
	25 l Can	4FMJF2005-25
	200 l Barrel	4FMJF2005-200
	Thinner IF TT2005M	
	Thinner for IF 2005M	
	10 l Can	4HMTT2005-10
	25 l Can	4HMTT2005-25
	Flux IF TS15	
	1,5 % solid content, foamable	
	10 l Can	4FMJF2005-10
	25 l Can	4FMJF2005-25
	200 l Barrel	4FMJF2005-200
	Thinner E3226	
	Thinner for IF TS15 and IF TS18	
	5 l Can	4HMVER-5
	20 l Can	4HMVER-20
	Flux RA200 5 l Can	
	4,5 % solid content; halogen free activated; no resins contained	4FMRA200-5
	Flux RA201 5 l Can	
	2 % solid content; halogen free activated; no resins contained	4FMRA201-5
	Thinner for Flux RA201, 5 l can	
		4HMVER201-5
	Flux IF 2005K	
	2,5 % solid content; suitable for wave soldering lead-free and selective soldering leaded	
	1 l Bottle	4FMJF2005K-1
	10 l Can	4FMJF2005K-10
	25 l Can	4FMJF2005K-25
	Flux IF 2005C	
	3,4 % solid content; suitable for selective soldering leaded and lead-free	
	1 l Bottle	4FMJF2005C-1
	10 l Can	4FMJF2005C-10
	25 l Can	4FMJF2005C-25



Water Based Flux

Figure	Description	Order No.
	Flux IF 2009 MLF	
	3,6 % solid content; ultralow solder balling; suitable for wave- and selective soldering	
	1 l Can	4FMMLF2009-1
	10 l Can	4FMMLF2009-10
	Flux Pacific IF 2009M	
	3,7 % solid content; low residue high compatibility with con- formal coating; suitable for wave- and selective soldering	
	1 l Bottle	4FMJF2009-1
	10 l Can	4FMJF2009-10
	25 l Can	4FMJF2009-25
	Flux Pacific IF2009	
	2,5 % solid content	
	10 l Can	4FMJF2009-2.5-10
	25 l Can	4FMJF2009-2.5-25
	Flux Pacific IF 2010F	
	2,5 % solid content; low residue high compatibility with con- formal coating; suitable for wave soldering and foam contract	
	1 l Bottle	4FMJF2010-1
	10 l Can	4FMJF2010-10
	Flux IF 2040	
	6,5 % solid content; low residue high compatibility with con- formal coating; suitable for selective soldering	
	1 l Bottle	4FMJF2040-1
	10 l Can	4FMJF2040-10
	25 l Can	4FMJF2040-25














Flux for special applications



Figure	Description	Order No.
	Flux GR8 5 l Can	
	14,5 % solid content; halogen free activated; resins contained	4FMGR8-5
	Flux R8 5 l Can	
	15 % solid content; activated with organic halogens; resins contained	4FMR8-5
	Thinner E3226	
	5 l Can	4HMVER-5
	20 l Can	4HMVER-20













Solderbath Maintenance General

Figure	Description	Order No.
	Service gloves (pair)	
	for the hot area	
	Size M	6HDSGLGEW-289
	Size L	6HDSGLGEW-290
	Mould for alloy analysis	
	for the tin analysis at Ersa	6ISK714-05A
	Brush flat 25mmx7mm Istle green	
		317108
	Brush flat 25mmx7mm Istle blue	
		317109
	Brush flat 35mmx12mm Istle Green	
		317110
	Brush flat 35mmx12mm Istle Blue	
		317111
	Brush flat 60mmx20mm Istle Green	
		317113
	Brush flat 60mmx20mm Istle Blue	
		317114
	Brush flat 25mmx7mm China-bristle	
		317115
	Brush flat 35mmx12mm China-bristle	
		317116
	Brush flat 60mmx20mm China-bristle	
		317117


Solderbath Maintenance Wave

Figure	Description	Order No.
	De-Drossing Tool for Solder Pot	
	for Wave and Dip Soldering Modules including special tool with L2C coated surfaces for lead solder	
	Consisting of 13 tools to maintain the solder bath	
	blue	123551
	green	265515
	Solder Ladle	
	suitable for removal of fluid solder from the soldering bath. For example for alloy analysis	6ISK714-01






Solderbath Maintenance Wave

Figure	Description	Order No.
	Solder Scrapper blue	
	this tool is used together with the tool for the remove dross. A optimal tool to separate the oxids from the useful solder	6ISK714-03
	Tool to remove dross blue	
		100692
	Multigrip pliers (pair), 240 mm length	
		6ZT00095
	Scrapper flexible	
		100676
	Brush flat sor. 40 1"	
		6ZT00073
	Spatula b=150 mm blue	
		100449
	Silicon brush	
		112539
	Scrapper - silicon	
	Small	112541
	Large	112540
	Wooden scrapper	
		112537
	Cover oil HAT (Pump drive) 1 l Tin	
	1 l - can for the cover of the pump drive at wave soldering machines. Prevent surface oxidation. HAT is synthetic and oil-free	4HMHT

Solderbath Maintenance Wave

Figure	Description	Order No.
	Removing tool with interlocking nozzle removing tool for ERSA wave nozzles	12555
	Red oxide paint 750 g/tin for painting of moulding solder pots to protect them from pitting because of the lead-free soldering	4HMFARBE

Solderbath Maintenance Selective

Figure	Description	Order No.
	De-Drossing Tool „consist of: 3x Brush flat sor. 40.1”” 6ZT0073 1x Service gloves (pair), size L 6HDSGLGEW-290 1x Ladle for feeding pipe blue (100613) or green (299969) 1x Scraper flexible 100676 1x Spoon to remove dross in versflow pot 100604	
	blue	4SNP00-ZB0-010
	green	265539
	Solder Ladle square solder pots	332154
	Ladle for feeding pipe DIP blue	253480
	green	297440
	Nozzle Removal Tool Version 2 for selective nozzle standard and thin	6ISK47957091
	Combi tool for nozzle removal optimal combi tool to remove the nozzle and the gasification ring of selective soldering machines	6ISK47957090A
	Tongs for the exchange of tips	3ZT00164
	Cleaning paste IF930 nozzles for cleaning / activation of wettable selective nozzles	
	10 ccm	179904
	30 ccm	179905
	Dispenser for 10 ccm for cartridges 179904	104118
	Cleaning brush f. nozzles diameter 2,5 mm twisted brush with stainless steel bristles 2,5 mm bristle diameter, borderlength: 120 mm, total length: 300 mm	258787

Solderbath Maintenance Selective

Figure	Description	Order No.
	Brush for tube Ø=3 mm stainless tread M4	47700
	Handle 2,8 - 4 mm black-synthetic	47705
	Brush for tube Ø 5 mm stainless tread M6	47701
	Cleaning brush f. nozzles diameter 6 mm	247811
	Brush for tube Ø 8 mm stainless tread M6	47702
	Brush f. tube Ø 10 mm stainless tread M6	47703
	Handle M6 Dia. 23 L 60	47704
	Tray for solder module	243401
	Spoon to remove dross in versflow pot	100604
	Needle f. dispens.Ø=1,63/1,35;l=25.4viol for rework paste solder nozzles Versaflow	103556
	Cleaning tool for solder nozzles Tool Set for cleaning and activation of solder nozzles. Consisting of: 2 EA of 179904 „cleaning paste” HS code 38109090, 5 EA of 103556 needle HS code 73181590, 1 EA of 47703 brush for tube HS code 96035000, 1 EA of 47704 handle for tube HS code 84879090, 1 EA of 213024 cleaning brush HS code 96039099	106249
	Needle 90° LL Nr.14 Id 1,6 mm	130271





Fluxer Selective Machines

Figure	Description	Order No.
	Sprayhead flux jet II - 130 micrometer	
		6FLX-REA06
	Sprayhead flux jet II 1/180 micrometer	
		6FLX-REA08
	Sprayhead flux jet II 1/270 micrometer	
		6FLX-REA07
	Sealing ring for Wedotec-spray head for nozzle plate of the sprayheads 6FLX-REA06, 6FLX-REA08 and 6FLX-REA07	82240
	Spring part with sealing, Wedotec for sprayheads 6FLX-REA06, 6FLX-REA08 and 6FLX-REA07	156252
	Wear set Flux-Jet; Wedotec content: 2x nozzle plate sealing 2x fixing screws for nozzle plate 2x safety washer 1x spring	156183
	Cleaning needle 130 - 350 micrometer for cleaning the nozzle plate from sprayheads of the VERSAFLOW and ECOCELL selective soldering machine	17233
	Pressure tank 2 l. V4A 1.4404 bottom	
	pressure tank for selective soldering machine	234045
	flux container VF4 2ltr	274239
	Float switch for spray pressure tank	203148
	Level sensor capacitive level sensor for older pressure tanks	6FLX-SPR-12

Fluxer Selective Machines

Figure	Description	Order No.
	Precision pres reg 0,05-2 bar pressure regulator for pressure tank 234045	101992
	Over pressure valve for pressure tank 234045	205266
	Manometer 0-2,5 bar 1/8" for pressure tank 234045	125875
	PTFE Sealing 1/4" 25% Carbon for pressure tank 234045	259583
	Needle for cleaning 130-270 micro nozzle for sprayhead of the versaflow and ecocell selective soldering machine	78722



Fluxer Powerflow Series

Figure	Description	Order No.
	Spray head, flood gate KA-2/SW jet nozzle: 0,3	110089
	nozzle: 0,5	184409
	Quick change holder for Sprayhead 110089 & 184409	110091
	Spray head complete, flood gate set with sprayhead and quick change mount	110095
	Spray head (110089) repair kit, sealing contains all mounted seals, the needle and the spring	138113
	Spray head (184409) repair kit, sealing contains all mounted seals, the needle and the spring	138113

Fluxer Powerflow Series

Figure	Description	Order No.
	FC-holder(110091) repair kit, sealing	
	contains all installed seals	164292
	Nozzle 0,3 mm Nr.210111 flood gate	
	fluid nozzle for 110089 with 0,3 mm diameter	207521
	Needle 0,2/0,3 mm Nr.111670 flood gate	
	needle for sprayhead 110089 with 0,3 mm fluid nozzle	245214
	Flux head 0,5 mm	
	fluid nozzle with 0,5 mm for gate sprayhead. Only usage in conjunction with the suitable needle 235322	235321
	Needle for flux head inox 1.4571	
	needle for gate sprayhead. Only usage in conjunction with the fluid nozzle 235321	235322
	Spray head, flood gate jet/needle 0,5	
	set with needle and fluid nozzle 0,5 mm gate sprayhead. For reconstruction from 0,3 mm to 0,5 mm diameter	136796
	Pressure spring 0,7 x 13,5 mm 820017	
	for sprayhead 110089	233202
	O-Ring 2,9x1,78 Viton article-no.:640026	
		234130
	O-Ring 8,5x1,8 Viton article-no.:640366	
		234132
	O-Ring 5x1 Viton article-no.:640077	
		236550

Fluxer Powerflow Series

Figure	Description	Order No.
	O-RING 18X1,5 Fa. Schütze ART. NR.640006	
		246024
	Cap ring 23x10 mm Nr.410059 flood gate	
		266004
	Spray nozzle air-cap 60° VA, flood gate	
		224571

Fluxer ETS, EWS and NWAWE Series

Figure	Description	Order No.
	Spray unit	
	contains all seals and needle	6ISK171009
	Sprayhead-repair-kit	
	Enthält alle Dichtungen und die Absperrnadel	6FLXSPR-14
	Spray nozzle 2050 (stainless steel)	
	replacement fluid nozzle spraying system standard	6FLXSPR-02
	Spray nozzle 1650 (stainless steel)	
	fluid nozzle spraying systems for lower flux quantity	6FLXSPR-02-S1
	Spray nozzle 2850 (stainless steel)	
	fluid nozzle spraying systems for higher flux quantity	6FLXSPR-02-S2
	Air nozzle 67228- 45° V2A	
		6FLXSPR-03

Foam Fluxer





Figure	Description	Order No.
	Foam tube 250 mm, Dia. 41 mm separately packed! Dust protection	6IN131
	Foam tube 330 mm, Dia. 41 mm middle pore side 10 µm; foam tube packed separately because of dust protection	6IN045-1

Figure	Description	Order No.
	Foam tube 400 mm, Dia. 41 mm middle pore side 10 µm; foam tube packed separately because of dust protection	6IN045-2
	Foam tube 450 mm, Dia. 41 mm middle pore side 10 µm; foam tube packed separately because of dust protection	6IN045-3

PTP Messboards



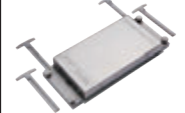








Figure	Description	Order No.
	PTP® Electronics + Softwareplus 8 Channels, Real-Time-Data, for Reflow-Convection, Wave, Selective, Temp.-Time-Profiles Measuring Range 150 to 1,350 °C 1x PTP® electronics + software 1x calibration PTP® electronics (incl. certificate with DKD reference) 1x aluminium case with insert for electronics and Shuttle 8x thermo couples K-Type Sensor l= 300mm 1x USB Stick, 4GB	0GP-ME001
	Measuring Board Reflow V5 Standard 300x390 mm [WxL] 8 Sensors Oven Check-up in Accordance with ISO900x	0GP-RE001
	Shuttle carrier The PTP - Shuttle is designed for the reflow measurement board as well as for the location behind the PCB and realizes the thermal protection for the PTP electronics, which is particularly necessary during the reflow process.	0GP-SH001
	Measuring Board WAVE V6 Standard 300x330 mm [WxL] 8 Sensors Profile optimization	0GP-WE001
	Thermocouple Ni/CrNi with plug thermal element with the adapter for ERSA sensor shuttle 500mm length	6ETHE2x0.20/500
	Thermocouple comp. cable Ni/CrNi yard goods	6ETHE2x0.20NI
	Thermo element compensation cable yard goods	6ETHE2x0.50NI

Figure	Description	Order No.
	Thermo plug „K“ Jumo, male for connection of the thermal sensor cable at the ERSA sensor shuttle	6ETHE-NI-ST
	Thermo coupling „K“ Jumo, female opposite of the thermal plug 6ETH-NI-ST	6ETHE-NI-KU
	Kapton Adhesive tape 10 mm 25 mm high temperature tape for fixing of the thermal sensors on the temporary measurement board	6ZT00160 3RRKAPTON
	Service gloves (pair) for the hot area size M size L	6HDSGLGEW-289 6HDSGLGEW-290
	K-Type Thermocouple PFA Isolation (+260°C) 2x0,03mm / L=300 mm Fibreglass Isolation (+320°C) 2x0,2mm / L=300 mm Fibreglass Isolation (+320°C) 2x0,2mm / L=400 mm Fibreglass Isolation (+320°C) 2x0,2mm / L=500 mm	339701 339702 339703 340109
	5 K-Type-Sheathed Thermocouple Inconel® (+320°C) D=0,5 / L=150 mm Inconel® (+320°C) D=0,5 / L=200 mm Inconel® (+320°C) D=0,5 / L=250 mm Inconel® (+320°C) D=0,5 / L=300 mm Inconel® (+320°C) D=0,5 / L=400 mm Inconel® (+320°C) D=0,5 / L=500 mm	340082 340083 340085 340086 340000 340087
	1 Set, 8 K-Type Thermo-cable Fibreglass Isolation (M-F +320°C) L=different length (2x120,2x150,2x180,2x220 mm) length (4 x 150, 4x200 mm) L=different length (220 – 350 mm) L= 400 mm, Numbering 1-8 L= 400 mm	340393 341242 340149 341245 341247


PTP Messboards

Abbildung	Bezeichnung	Bestell-Nr.
	1 Set, 8 K-Type Thermo-cables PTFE Isolation (M-F, +260°C)	
	L= 250 mm, Numbering 1 - 8	340160
	L= 350 mm, Numbering 1 - 8	339318
	Accessoirs	
	Antenna 50R/SMA-M RX, knuckle (+80°C)	223683
	Antenna 50R/SMA-M TX, Stub (+80°C)	201950
	Data cable USB2.0 (A to Mini B) 1,8m	341288
	On/Off Switch (Miniature Plug M, +320°C, shortcut)	341289
	USB Charging Adapter (USB A – Miniature Plug F) 1,8 m	341290
	Antenna SMA-Cable 50R	341729
	Li-Ion-Battery	212495


Wave Soldering Machines, 250 mm working width

Figure	Description	Bestell-Nr.
	Solder pallet ETS 250	
	length 360 mm	4LRM360-250
	length 420 mm	4LRM420-250
	length 500 mm	4LRM500-250
	Solder pallet ETS 250A	
	length 360 mm, VA	4LRM360-250A
	length 500 mm, VA	4LRM500-250A
	length 600 mm, VA	4LRM600-250A



Spare Parts, 250 mm working width

Abbildung	Bezeichnung	Bestell-Nr.
	Sidebar ETS 250	
	length 360 mm	4KLE25-360-000
	length 420 mm	4KLE25-420-000
	length 500 mm	4KLE25-500-000
	length 600 mm	4KLE25-600-000
	Center bar ETS 250	
	length 360 mm	4DKLE2-360-000
	length 420 mm	4DKLE2-420-000
	length 500 mm	4DKLE2-500-000
	length 600 mm	4DKLE0-600-000


Wave Soldering Machines, 330 mm working width

Figure	Description	Order No.
	Solder pallet	
	solder pallet for Ersa soldering machines with working width of 330 mm. Not suitable for ETS 330 soldering machine with only one conveyor drive chain.	
	length 360 mm	4LRM360-3SC-F
	length 420 mm	4LRM420-3SC-F
	length 500 mm	4LRM500-3SC-F
	length 600 mm	4LRM600-3SC-F
	Soldering frame Transport	
	Soldering frame for Ersa Powerflow with separated conveyor and 330 mm working width.	
	length 420 mm	4LRM420-3SC-FL
	length 500 mm	4LRM500-3SC-FL
	length 600 mm	4LRM600-3SC-FL








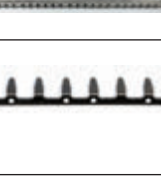


Wave Soldering Machines, 400 mm working width

Figure	Description	Order No.
	Solder pallet	
	Solder pallet for Ersa soldering machine with a working width of 400 mm.	
	length 420 mm	4LRM420-4SC-F
	length 500 mm	4LRM500-4SC-F
	length 600 mm	4LRM600-4SC-F
	Soldering frame Transp.	
	Soldering frame for Ersa Powerflow with separated conveyor and 400 mm working width.	
	length 420 mm	4LRM420-4SC-FL
	length 500 mm	4LRM500-4SC-FL
	length 600 mm	4LRM600-4SC-FL



Wave Soldering Machines, 500 mm working width

Figure	Description	Order No.
	Solder pallet	
	Solder pallet for Ersa soldering machine with a working width of 500 mm.	
	length 420 mm	4LRM420-5SC-F
	length 500 mm	4LRM500-5SC-F
	length 600 mm	4LRM600-5SC-F
	Soldering frame Transp.	
	Soldering frame for Ersa Powerflow with separated conveyor and 500mm working width.	
	length 420 mm	4LRM420-5SC-FL
	length 500 mm	4LRM500-5SC-FL
	length 600 mm	4LRM600-5SC-FL

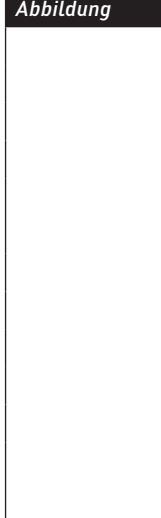
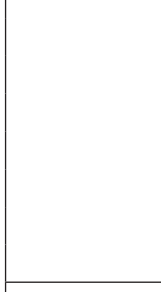
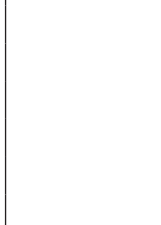



Spare Parts, 330 mm - 500 mm working width

Figure	Description	Order No.
	Support profile	
	Support profile front left	6IN512-0
	Support profile front right	6IN513-0
	Support profile back right	6IN526-0
	Support profile back left	6IN527-0
	Profile for segmented conveyor	
	profile (VL)	118115
	profile (VR)	118119
	profile (HL)	118121
	profile (HR)	118123
	Movable support rail	
	for supply of PCBs in Ersa soldering frame	
	330 mm working width	4ZH-330
	400 mm working width	4ZH400
	Rail for Soldering frames	
	Like 4ZH-330 - only rail	
	330 mm working width	6ISK275-02
	400 mm working width	6ISK275-03
	Mounting plate	
	for movable support. One sided PCB holder	
		6IN490
	Center mounting plate	
	for movable support. two sided PCB holder	
	Sidebar	
	length 420 mm	4KLE00-420-000
	length 500 mm	4KLE00-500-000
	Center bar, length 420 mm	
	for solder frame with 420 mm length	4DKLE0-420-000
	Center bar, length 500 mm	
	for solder frame with 500 mm length	4DKLE0-500-000
	Center bar stainless steel, length 600 mm	
	for solder frame with 600 mm length	4DKLE600
	Clamping clip 130 mm 6 finger, (SS)	
	clip for center- and sidebar to rivet on	6IN127
	Clamping clip 65 mm, 3 finger (SS)	
	clip for center- and sidebar to rivet on	6IN126
	screw-star handle M4x16 (SS)	
	for the clamping assembly of the Ersa center- and sidebar	29548




Selective machines

Figure	Description	Order-No.
	Solder frame SMARTFLOW 2020	
	universal frame 281460	281460
	add. rack	296292
	Solder frame ECOSELECT 1	
	universal frame 406x508 mm	226137
	add. rack 406x508 mm	253083
	universal frame 508x508 mm	245124

Stencil printers

Abbildung	Bezeichnung	Bestell-Nr.
	Squeegees	
	200mm set of squeegees (mil.)	188185
	250mm set of squeegees (mil.)	176177
	300mm set of squeegees (mil.)	176179
	350mm set of squeegees (mil.)	176180
	400mm set of squeegees (mil.)	176181
	450mm set of squeegees (mil.)	188300
	500mm set of squeegees (mil.)	183831
	550mm set of squeegees (mil.)	189797
	600mm set of squeegees (mil.)	272843
	650mm set of squeegees (mil.)	286163
	680mm set of squeegees (mil.)	286164
	700mm set of squeegees (mil.)	286166
	Vacuum plenum	
	Vacuum plenum 250mm	336684
	Vacuum plenum 380mm	336683
	Vacuum plenum 420mm	354887
	Vacuum plenum 500mm	336681
	Vacuum plenum 560mm	336680
	Vacuum plenum 600mm	344643
	Vacuum plenum 700mm	336678
	Cleaning paper	
	cleaning tissue roll 50 plastic core	186759
	270 mm Cleaning paper	157365
	400 mm Cleaning paper	157397
	520 mm Cleaning paper	212275
	580 mm Cleaning paper	157398
700 mm Cleaning paper	192203	
	Support blocks	
	400 mm	130313
	Support pins	
	Support pin	121304
	Support pin (18dm, black)	352494
	Vacuum support pin	
	5 Vacuum support pins	335935

Stencil printers

Abbildung	Bezeichnung	Bestell-Nr.
	HD Grid-Lok	
	HD Grid-Lok-system/2-rowed/ l=305mm	142267
	HD Grid-Lok-system/2-rowed/ l=457mm	160047
	Additional module 305 mm	142273
	Additional module 457 mm	142276
	opt. sensor f. „auto mode“ (Grid-Lok)	142268
	VarioGrid	
	VarioGrid supp.syst. 3x l=425mm w=44mm	148051
	VarioGrid supp.syst. 3x l=326mm w=44mm	154132
	VarioGrid system module l=425mm; w=44mm	148046
	VarioGrid system module l=326mm; w=44mm	154134
	VarioGrid system module l=425mm; w=22mm	148047
	VarioGrid system module l=326mm; w=22mm	154133
	Vario Grid control - manual operation	153789
	VarioGrid Automatic / Control (E)	202121
	VarioGrid opt. sensor (Autom./Contr.(E))	202122
	QTZ Module	
	QTZ Kit 4 modules+control unit, 305 mm	224609
	QTZ Kit 4 modules+control unit, 381 mm	224426
	QTZ Kit 4 modules+control unit, 457 mm	224611
	Quik Tool QTZ9912 additional module	226929
	Quik Tool QTZ9915 additional module	226930
Quik Tool QTZ9918 additional module	226931	

Auxiliaries and Supplies

Figure	Description	Order No.
	Leak detection spray, 400 ml can	
		6ZT-SPRAY02
	Epoxy glue Art.Nr. 071045600	
	2 components glue for example for fixing the thermal sensor on the measurement board	6X00034
	Spray 400 ml Molykote dry slide film	
	for lubrication at demanding sliding applications. Temperature range .- 185 to +450 °C. not secreting resin, high pressure resistance, ageing resistance	77781

Auxiliaries and Supplies

Figure	Description	Order No.
	Antifreeze can 30 Liter	
	for use in cold water - cooling circulation as Algizid, antifreeze and corrosion protection	6ZT00167
	adipic acid in 1 kg can	
	powder for nozzle activation of wet- table selective nozzles	89593
	SILIC ADHESIVE E43 TUBE 90 cm3	
	high temperature silicon glue up to 180 °C	6X00028
	Solder wire SnAg3,8Cu0,7 ø 2 mm, 4 kg	
		50273
	Solder Wire Sn63Pb37 ø 2 mm, 4 kg	
		61662
	Solder wire SN100CE-SnNi Dia. 2 mm 4 kg	
		104134
	Solder wire LF Sn96,5Ag3Cu0,5 D 2mm 4 kg	
		120268
	Filter case AN111.01 screwings NW3	
	filter housing for the residual oxygen of different Erska soldering machines	6FIL-HL-01
	Filter cartridge, activated carbon	
	for the use in the filter housing 6FIL-HL-01 for the residual oxygen of different Erska soldering machines	6FIL-HL-ZT01
	O-Ring for Filter 6FL-HL-01	
	for the transparent plunger of the filter housing 6FIL-HL-01	6FIL-HL-ZT02

Auxiliaries and Accessories



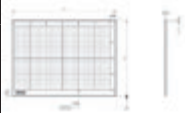
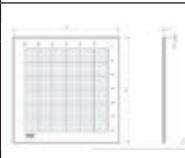
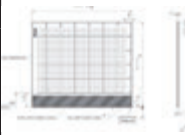








Figure	Description	Order No.
	Reference Fixture measurement and calibration board for Erska selective soldering machines. 390x 480 mm	6ISK47955141
	Reference Fixture 350x350 measurement and calibration board for Erska selective soldering machines. 350x 350 mm	203532
	Glass plate to verify Wave Set-Up in order to measure the wetting length Dimensions: 240 x 325 mm	4ZBGS0240x325
	Glass plate to verify wave setup Size: 380 x 380 mm. Suitable for any wave soldering machine. Made of high temperature glass with 10 mm grid spacing.	4ZBGS0380x380
	Glass plate, heat resistant Grid 300 x 300, black edge for conveyor of selective soldering machines	84584
	Greycard VERSASCAN	329384
	All purpose pin puller for cutting the conveyor chains	6ZT00187
	Chain rivet remover for chains with plunger diameter over 3 mm	6ZT00189
	Service and Maintenance Trolley for Wave-/ Multiwave-/ and Dip Soldering machines. Service trolley Including special lead-free coated surfaces.	100388
	Mounting sheet for tools tool holder for keeping the soldering pot cleaning tools	100387
	Solder mould aluminum bowl for keeping solder during the exhaust of the soldering pot	247629
	Tool for gasification ring for opening the gasing caps of the Erska soldering machines	243303
	Key for control panel electrical cabinet key	6VERSCHLÜ2531

Figure	Description	Order No.
	Wrench for switch-cupboard square key for opening special doors	252141
	Lock three.corner part 7 mm	2545.000
	triangle key for opening special doors	6VERSCHLÜ2554
	Light metal precision level for diverse adjustments	208659
		
	Cleaning brush stainless steel brush piece 100x 20 mm for example to cleaning the wettable selective nozzles	213024
		
	Mould for alloy analysis for delivery of the tin testing to erska in standardized form / size	6ISK714-05A
		
	Pressing tool for pressing dowl pins in nozzle locking shafts	109687
		
	Protective gloves (pair) heavy, fleecy quality	
	size L	127380
	size m	127382
	Service gloves (pair) for the hot area	
	size M	6HDSGLGEW-289
	size L	6HDSGLGEW-290
	Cover for VERSAFLOW 3 Series cover without cut-out	233401
	trape single pot without fluxer	253569
	Cover cloth f. single pot with fluxer	253570
	Drape Z varia without fluxer	253483
	Drape Z-varia with fluxer	253484
	cover cloth y viara without fluxer	253581
	cover cloth y viara with fluxer	253582
	Cover VERSAFLOW B	
		6ISK47202401
	Cover VERSAFLOW 4 Versaflo 4/55 & ECOSELECT 4	295249



■ Screen & Stencil Printer

VERSAPRINT screen printing systems with fully integrated in-line post print inspection offer unique cost and technology benefits. The revolutionary LIST camera offers an inspection beyond compare: detection of paste on pad, print offset, bridges and stencil blockages in in-line speed.



■ Inspection SMT/BGA

No matter if a reworked BGA needs to be inspected or the parameters of a production line need to be verified – ERSASCOPE inspection systems for the damage free inspection of covered solder joints have become the standard in electronic productions.



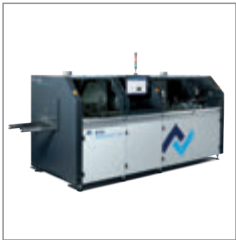
■ Reflow Soldering

Ersa reflow soldering systems convince by their extraordinary thermal performance, highest machine availability and low operating costs. The Ersa HOTFLOW 4 series has mastered to significantly reduce the energy and N2 consumption on a comparable performance level



■ Soldering and Desoldering

Ersa soldering and desoldering stations impress by their compact size, high performance, energy efficiency and low operating costs, since inexpensive exchange soldering tips are used. Being the i-CON family's flagship it offers the user 4 tools to master demanding soldering applications.



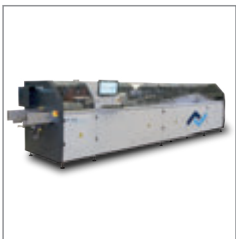
■ Selective Soldering

As technology leader Ersa delivers perfect solutions for all selective soldering tasks: the scope of configurations ranges from start-up to high-end, from inline to cell production, from single to multi wave soldering and from highest flexibility to highest throughput and make the VER-SAFLOW, ECOCELL and ECOSELECT systems the ideal match for the demands of the users.



■ Solders, Solder wires & Fluxes

All about soldering - supplied by one source: beneath special tools, soldering tools and temperature measuring devices Ersa also offers operating supplies for the production and repair of PCBs. Ersa solder wires contain only high quality raw materials and are manufactured according to most modern standards to meet all quality requirements.



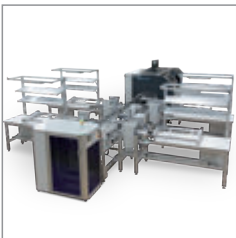
■ Wave Soldering

The cost-benefit ratio of wave soldering is still outstanding. But the demands of the users differ widely. Therefore Ersa offers an extensive range of individually configurable systems, from basic to high-end.



■ Solder Fume Extraction

Ersa solder fume extractions are the efficient and economic way to ensure clean PCBs an healthy breathing air. The big nozzles, which are available in different shapes, efficiently extract the solder fumes of an entire workspace.



■ Handling systems

Ersa handling systems can be adapted precisely to the respective process requirements. Different modules are available. Such as lift up and down stations, height difference modules, rotating- and workstations, which can be connected with conveyor belts of various lengths to ensure an optimum handling of the PCB/carrier.



■ Services/Employer Trainings

Beside the broad product range Ersa offers comprehensive services like employer training and qualification, machine and production process audits, maintenance contracts, ramp-up support, machine capability studies or online spare part catalogues. Tell us your needs - we find the solution!



■ Rework

For more the a decade more then 5000 users all around the world benefit from the patented Ersa IR rework technology. Besides their excellent cost-benefit-relation Ersa systems have conquered their leading market position for their outstanding results even in demanding rework tasks.



■ Ersa Webshop

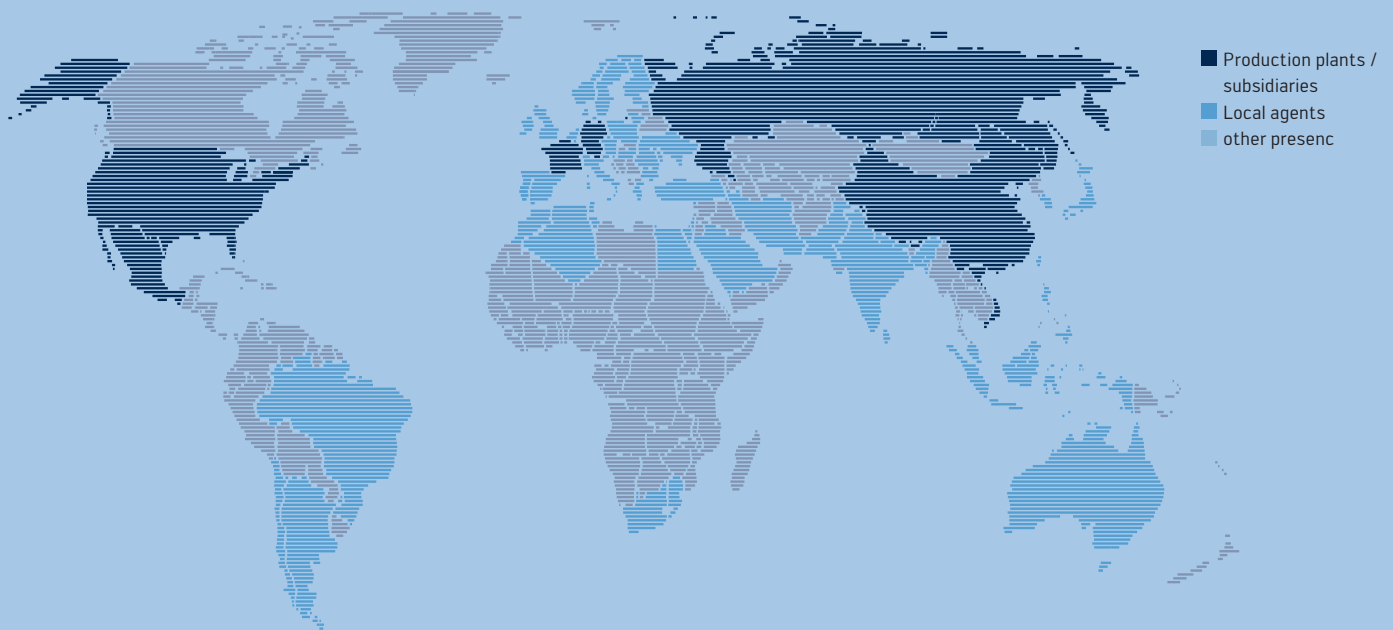
The Ersa Webshop offers spare and wear parts for Ersa soldering machines as well as tools, rework- and inspection systems.

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