

# Accessory Catalogue 2017

## Ersa Soldering Machines



Selective Soldering Nozzles,  
Lubricants & Cleaning Products, Flux,  
Solderbath Maintenance, Fluxer Accessories,  
Solder Frames, Auxiliaries, Supplies and more

Nozzle overview for solderpot B14.1		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		
	●		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
<b>ECOSELECT 1</b>	≤ 90 mm (M)	≤ 57 mm (M)	<b>SMARTFLOW</b>	≤ 75 mm (M)	-----
<b>ECOSELECT 2</b>	≤ 75 mm (K)	≤ 57 mm (K)	<b>VERSAFLOW 3</b>	≤ 85 mm (R)	≤ 57 mm (R)
<b>ECOSELECT 4</b>	≤ 85 mm (R)	≤ 85 mm (R)	<b>VERSAFLOW 4</b>	≤ 85 mm (R)	≤ 85 mm (R)
<b>ECOCELL</b>	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

## Height 47 mm, B14,1

**S NOZZLE 2,0/4,5; H=47; B14,1**

**213510** | 1 Pcs.

**S NOZZLE 2,4/5,0; H=47; B14,1**

**296767** | 1 Pcs.

**S NOZZLE 2,7/5,5; H=47; B14,1**

**296788** | 1 Pcs.

**S NOZZLE 3,0/6,0; H=47; B14,1**

**114609** | 1 Pcs.

**S NOZZLE 3,5/7,0; H=47; B14,1**

**256501** | 1 Pcs.

**S NOZZLE 4,0/8,0; H=47; B14,1**

**114611** | 1 Pcs.

**S NOZZLE 5,0/9,0; H=47; B14,1**

**152894** | 1 Pcs.

**S NOZZLE 6,0/10,0; H=47; B14,1**

**114613** | 1 Pcs.

**S NOZZLE 8,0/12,0; H=47; B14,1**

**118615** | 1 Pcs.

**S NOZZLE 10,0/14,0; H=47; B14,1**

**119274** | 1 Pcs.

**S NOZZLE 10,0/14,0; H=47; B14,1; Cross**

**257563** | 1 Pcs.

**S NOZZLE 12,0/16,0; H=47; B14,1**

**208094** | 1 Pcs.

**S NOZZLE 14,0/18,0; H=47; B14,1**

**190959** | 1 Pcs.

**S NOZZLE 16,0/20,0; H=47; B14,1; Cross**

**245562** | 1 Pcs.

**S NOZZLE 16,0/20,0; H=47; B14,1; Cross**

**263686** | 1 Pcs.

**S NOZZLE 18,0/20,0; H=47; B14,1**

**134354** | 1 Pcs.

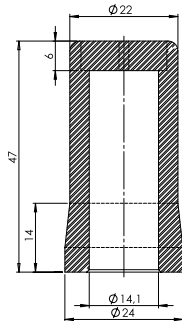
# Selective Soldering Nozzles

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)			

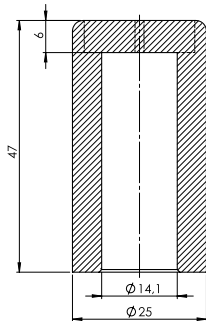
## Height 47 mm, B14,1

S NOZZLE 18,0/22,0; H=47; B14,1; Cross



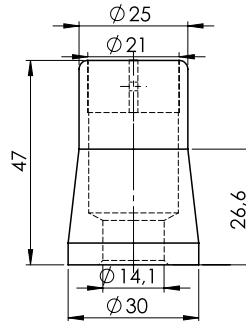
**255046** 1 Pcs.

S NOZZLE 21,0/25,0; H=47; B14,1



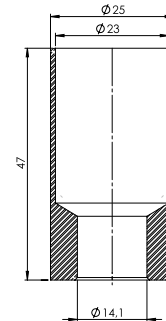
**260489** 1 Pcs.

S NOZZLE 21,0/25,0; H=47; B14,1; Cross



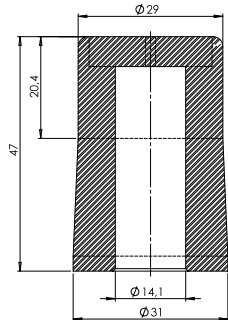
**263020** 1 Pcs.

S NOZZLE 23,0/25,0; H=47; B14,1



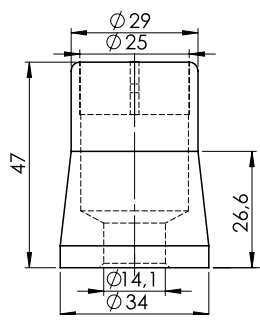
**239623** 1 Pcs.

S NOZZLE 25,0/29,0; H=47; B14,1; Cross



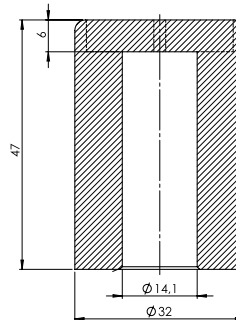
**245561** 1 Pcs.

S NOZZLE 25,0/29,0; H=47; B14,1; Cross



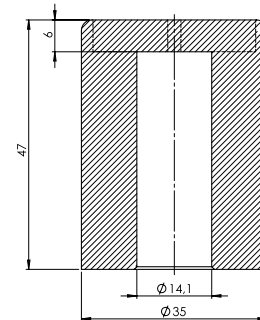
**263514** 1 Pcs.

S NOZZLE 28,0/32,0; H=47; B14,1; Cross



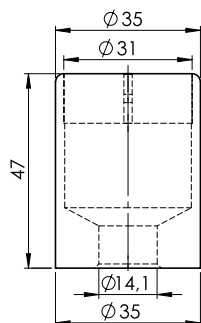
**248298** 1 Pcs.

S NOZZLE 31,0/35,0; H=47; B14,1; Cross



**255975** 1 Pcs.

S NOZZLE 31,0/35,0; H=47; B14,1; 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, B14,1

S NOZZLE 3,0/6,0; H=52; B14,1

<b>289012</b>	1 Pcs.
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S NOZZLE 4,0/8,0; H=52; B14,1

<b>300889</b>	1 Pcs.
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## Height 57 mm, B14,1

S NOZZLE 3,0/6,0; H=57; B14,1

<b>130964</b>	1 Pcs.
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S NOZZLE 4,0/8,0; H=57; B14,1

<b>189478</b>	1 Pcs.
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## Height 57 mm, B14,1

S NOZZLE 6,0/10,0; H=57; B14,1

<b>189479</b>	1 Pcs.
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S NOZZLE 8,0/12,0; H=57; B14,1

<b>203778</b>	1 Pcs.
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## Height 62 mm, B14,1

S NOZZLE 2,0/4,5; H=62; B14,1

<b>248354</b>	1 Pcs.
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S NOZZLE 3,0/6,0; H=62; B14,1

<b>199983</b>	1 Pcs.
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## Height 62 mm, B14,1

S NOZZLE 4,0/8,0; H=62; B14,1

<b>199985</b>	1 Pcs.
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S NOZZLE 6,0/10,0; H=62; B14,1

<b>199984</b>	1 Pcs.
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S NOZZLE 8,0/12,0; H=62; B14,1

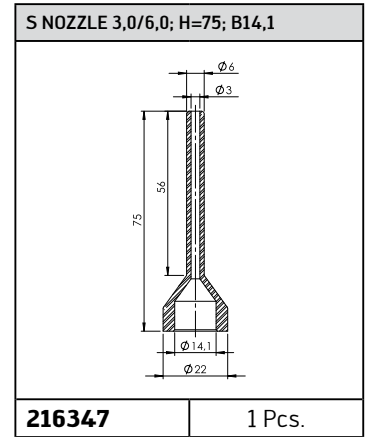
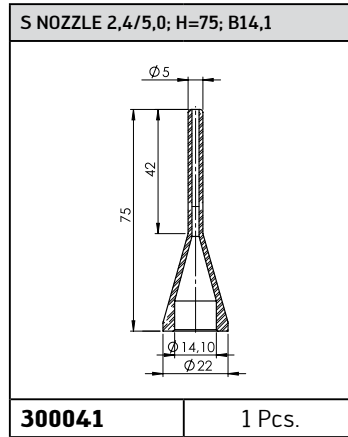
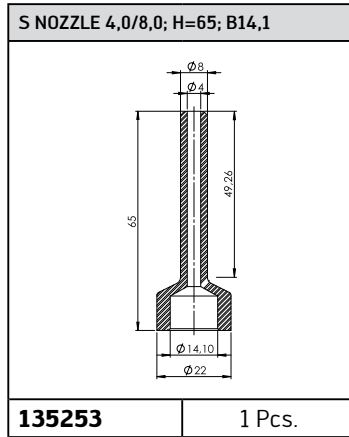
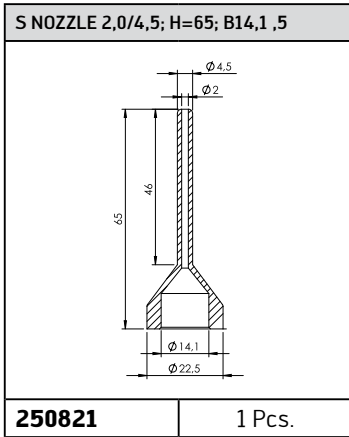
<b>197404</b>	1 Pcs.
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# Selective Soldering Nozzles

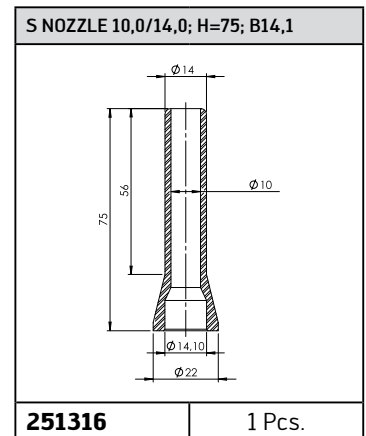
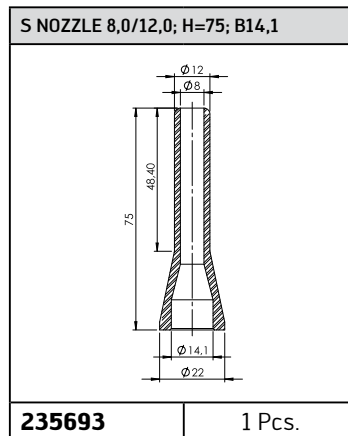
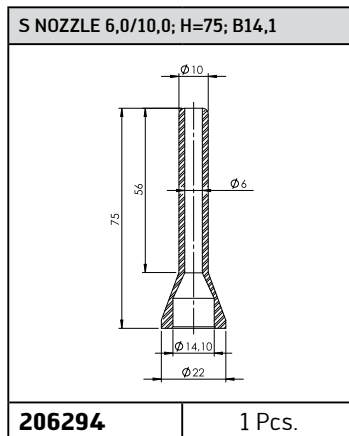
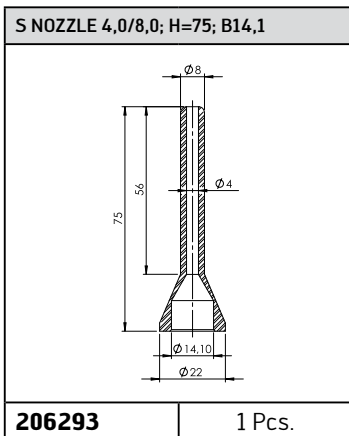
Finger Conveyor = (M)  
 Roller Conveyor = (R)  
 Pin Chain Conveyor = (K)

	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)			

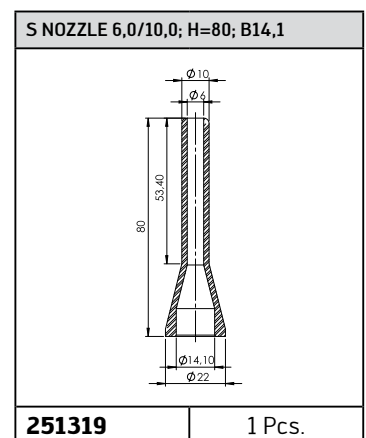
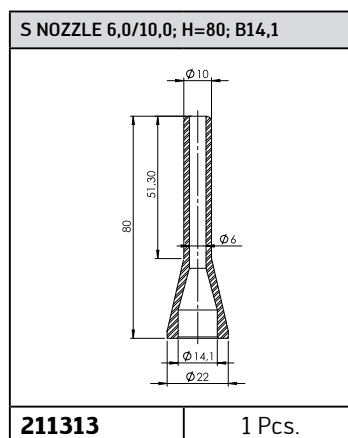
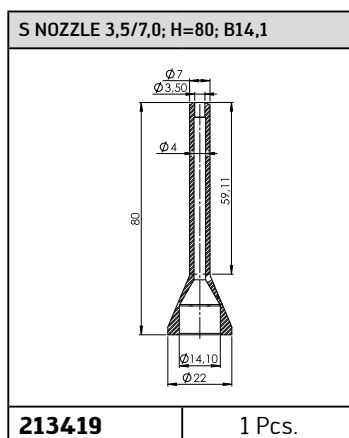
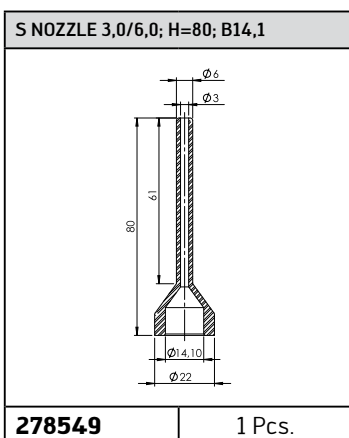
## Height 65 mm, B14,1



## Height 75 mm, B14,1



## Height 80 mm, B14,1



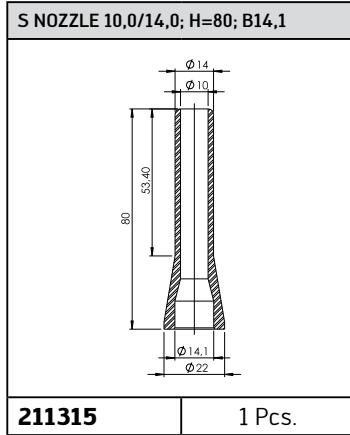
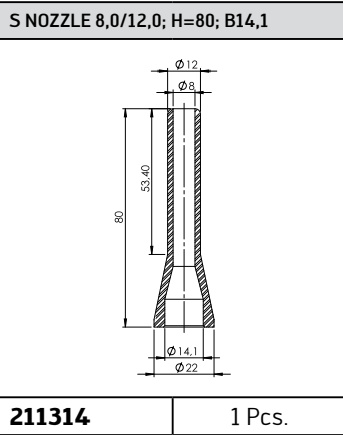


# Selective Soldering Nozzles

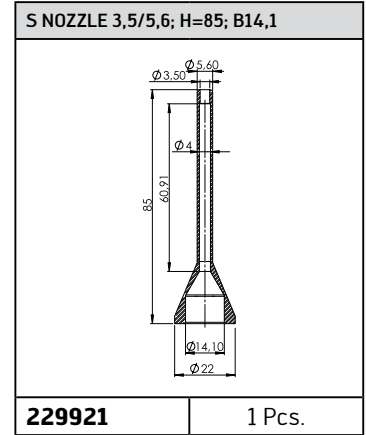
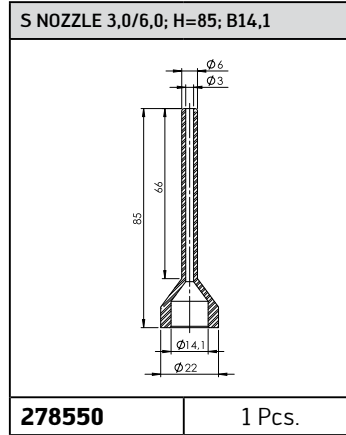
Finger Conveyor = (M)  
 Roller Conveyor = (R)  
 Pin Chain Conveyor = (K)

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

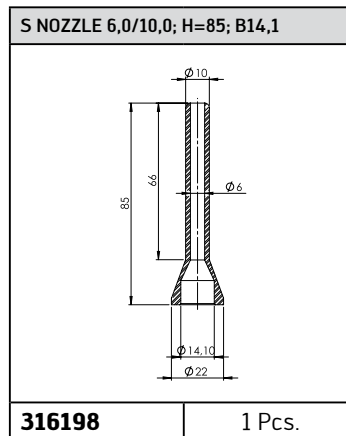
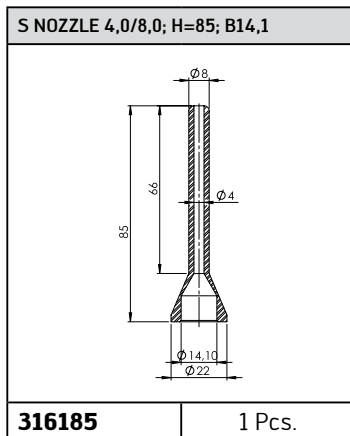
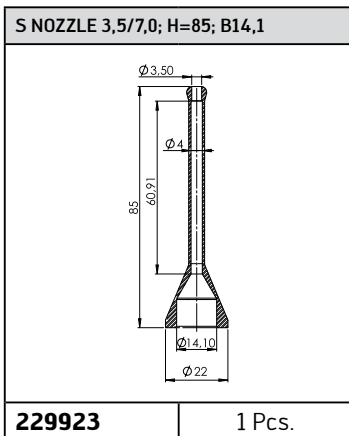
## Height 80 mm, B14,1



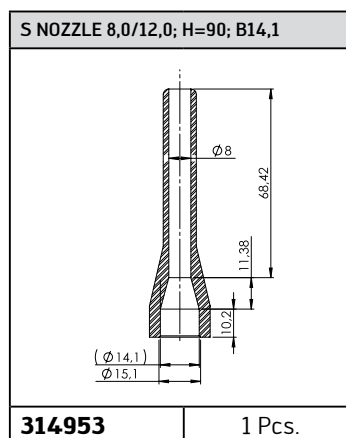
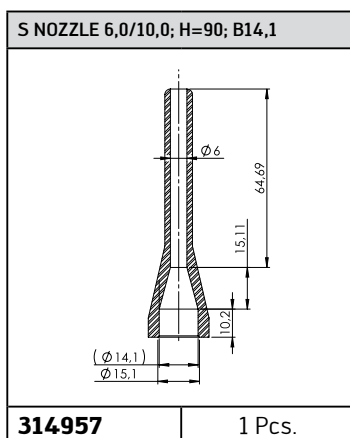
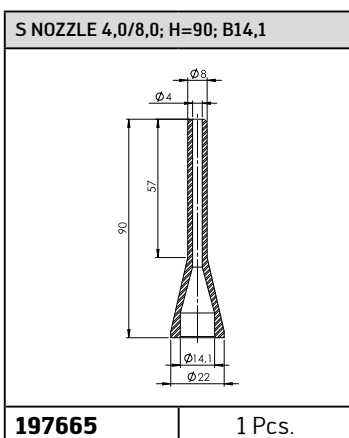
## Height 85 mm, B14,1



## Height 85 mm, B14,1



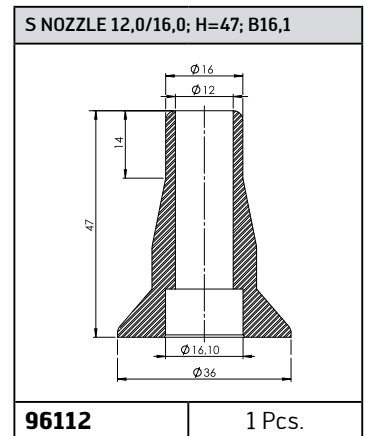
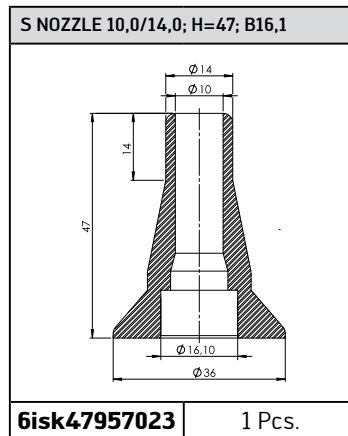
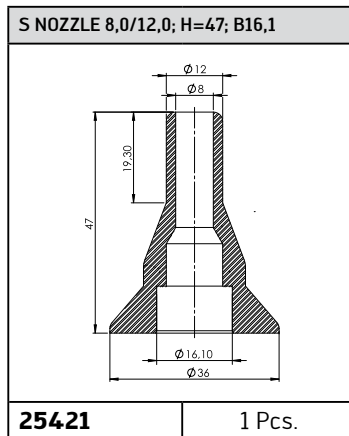
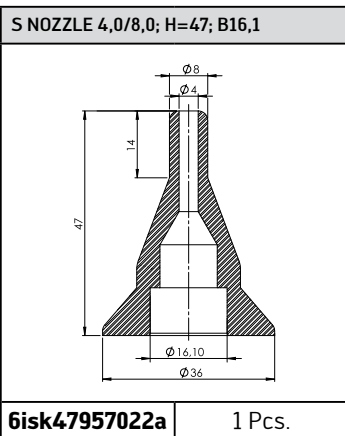
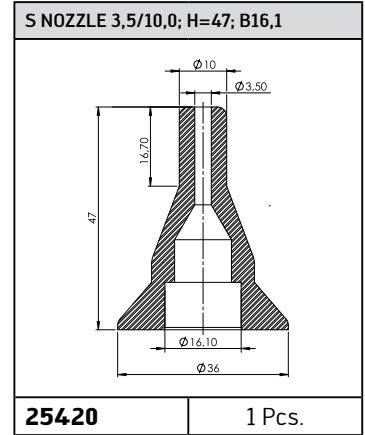
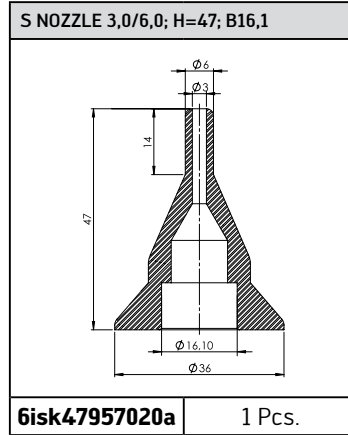
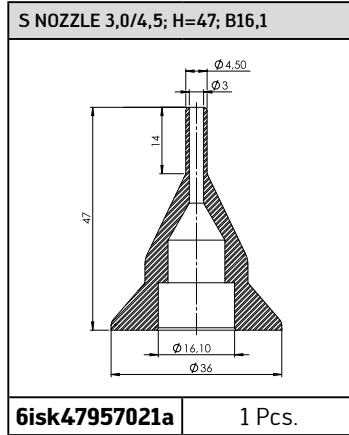
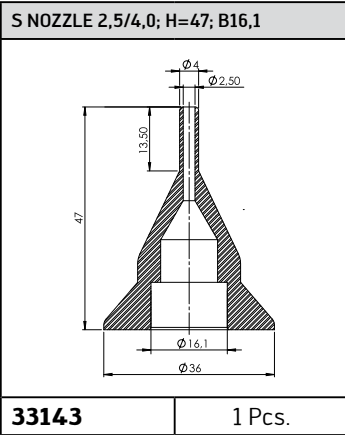
## Height 90 mm, B14,1



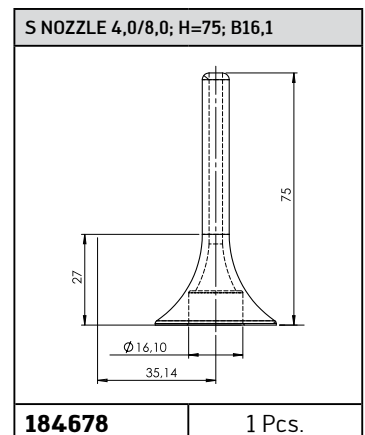
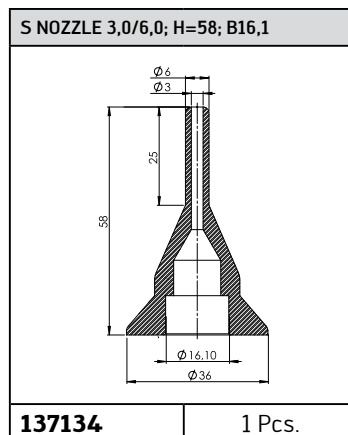
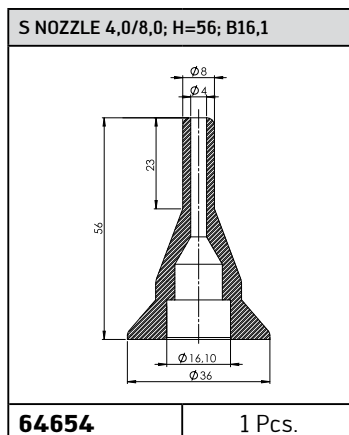
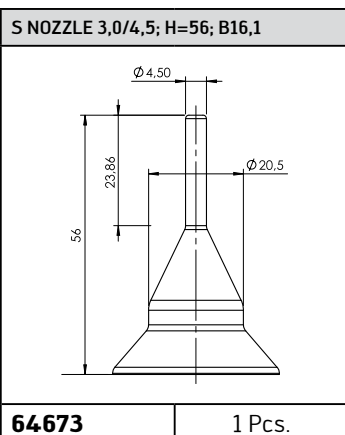
Finger Conveyor = (M)  
 Roller Conveyor = (R)  
 Pin Chain Conveyor = (K)

	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, B16,1



## Height 56 mm, B16,1



## Height 58 mm, B16,1

## Height 75 mm, B16,1

# 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
<b>ECOSELECT 1</b>	≤ 90 mm (M)	≤ 57 mm (M)	<b>SMARTFLOW</b>	≤ 75 mm (M)	-----
<b>ECOSELECT 2</b>	≤ 75 mm (K)	≤ 57 mm (K)	<b>VERSAFLOW 3</b>	≤ 85 mm (R)	≤ 57 mm (R)
<b>ECOSELECT 4</b>	≤ 85 mm (R)	≤ 85 mm (R)	<b>VERSAFLOW 4</b>	≤ 85 mm (R)	≤ 85 mm (R)
<b>ECOCELL</b>	≤ 85 mm (R, K)	≤ 57 mm (R, K)			

## Height 85 mm, B16,1

**S NOZZLE 4,0/8,0; H=85; B16,1**

**138145**      1 Pcs.

**S NOZZLE 4,0/8,0; H=85; B16,1**

**184677**      1 Pcs.

## Height 90 mm, B16,1

**S NOZZLE 4,0/8,0; H=90; B16,1**

**162216**      1 Pcs.

**S NOZZLE 4,3/8,0; H=90; B16,1**

**168373**      1 Pcs.









**S NOZZLE 6,0/10,0; H=90; B16,1**

**162195**      1 Pcs.

**S NOZZLE 6,2/10,0; H=90; B16,1**

**168446**      1 Pcs.

## Lubricants

Figure	Description	Order No.
	<b>High temperature cain oil</b>	
	LUBCON - special oil, Turmofluid 40B, 0,4 l Spraycan	6XOEL24-0.4S
	LUBCON - special oil, Turmofluid 40B, 0,5 l bottle	6XOEL24-0.5
	LUBCON - special oil, Turmofluid 40B, 1,0 l bottle	6XOEL24-1.0
	<b>High temperature grease UH1-96-402</b>	
	delivery in tubes with 80 g	171146
	<b>OKS 250 Metal-free multi paste 250 g</b>	
	Lubrication of toothed bars of width adjustment, splined shafts and separating agents for screws in the hot area	210939
	<b>Lubrication set OKS 250 paste</b>	
	tube 80 g and 5 lube brushes - unsuitable by direct contact with solder	211218
	<b>OKS 250 Metal-free multi paste 80 ml</b>	
	unsuitable by direct contact with solder	216540
	<b>Grease TAS-WT till 1400 °C - 100 g tube</b>	
	LUBCON - special lubricant, TURMO-PAST TAS WT, paste without dropping points. Temperature application range -30 °C up to +1400 °C (higher than 200 °C: the paste turns to a dry lubrication)	28444
	<b>Spindle grease, 50 g</b>	
	NBU 15 for lubrication of the shaft from the z-axis (Flex and dipmodul) in selective and wave soldering machines	210860
	<b>Grease gun filled w. Isoflex NBU15</b>	
	contain 50 g grease	210996
	<b>Lubrication set Isoflex NBU15</b>	
	tube 50 g and lube brush	214163
	<b>Grease Klueber Microlube GL 261 40 g</b>	
	Lubrication of linear track with high stress	210862



## Lubricants

Figure	Description	Order No.
	<b>Pencil for grease</b>	
		211209
	<b>Grease gun</b>	
	Pressol plunger push press with cupped and pointed adapter, connection thread M10x1 size 80 cm³ AD43 mm L = 140 mm	92159
	<b>High temp. grease Barrierta tube 50 gr.</b>	
	for filling the high temperature bearing 6LAP40-15FD-T	163081




## Cleaning Products

Figure	Description	Order No.
	<b>ESD-Cleaner 1 l</b>	
	for cleaning of ESD- slices - not suitable for acrylic slices	211125
	<b>Reinigungsset Acrylscheiben + ESD Folie</b>	
	ESD - cleaner with microfibre high resistance cloth	211214
	<b>cleaning cloth vermap-Softy</b>	
	for cleaning of acrylic glass slices in machine covers in conjunction with cleaner 211125	211207
	<b>Cleaning cloth for sprayheads</b>	
	cleaning clothes lint-free, 100x100	17231
	<b>Syggol Cleaner in 5 l CAN</b>	
	Cleaner for high contamination especially in reflow- and wave soldering machines.	302619
	<b>Needle for cleaning 130-270 micro nozzle</b>	
	for sprayhead of the versaflo and ecocell selective soldering machine	78722

## Low Residue - No-Clean Flux

Figure	Description	Order No.
	<b>Flux IF 2005M</b> 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
	<b>Thinner IF TT2005M</b> Thinner for IF 2005M	
	10 l Can	4HMTT2005-10
	25 l Can	4HMTT2005-25
	<b>Flux IF TS15</b> 1,5 % solid content, foamable	
	10 l Can	4FMJF2005-10
	25 l Can	4FMJF2005-25
	200 l Barrel	4FMJF2005-200
	<b>Thinner E3226</b> Thinner for IF TS15 and IF TS18	
	5 l Can	4HMVER-5
	20 l Can	4HMVER-20
	<b>Flux RA200 5 l Can</b> 4,5 % solid content; halogen free activated; no resins contained	4FMRA200-5
	<b>Flux RA201 5 l Can</b> 2 % solid content; halogen free activated; no resins contained	4FMRA201-5
	<b>Thinner for Flux RA201, 5 l can</b>	
		4HMVER201-5
	<b>Flux IF 2005K</b> 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
	<b>Flux IF 2005C</b> 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.
	<b>Flux IF 2009 MLF</b> 3,6 % solid content; ultralow solder balling; suitable for wave- and selective soldering	
	1 l Can	4FMMLF2009-1
	10 l Can	4FMMLF2009-10
	<b>Flux Pacific IF 2009M</b> 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
	<b>Flux Pacific IF2009</b> 2,5 % solid content	
	10 l Can	4FMJF2009-2.5-10
	25 l Can	4FMJF2009-2.5-25
	<b>Flux Pacific IF 2010F</b> 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
	<b>Flux IF 2040</b> 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.
	<b>Flux GR8 5 l Can</b> 14,5 % solid content; halogen free activated; resins contained	4FMGR8-5
	<b>Flux R8 5 l Can</b> 15 % solid content; activated with organic halogens; resins contained	4FMR8-5
	<b>Thinner E3226</b>	
	5 l Can	4HMVER-5
	20 l Can	4HMVER-20











## Solderbath Maintenance General

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

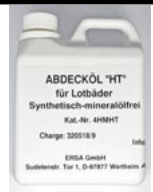

## Solderbath Maintenance Wave

Figure	Description	Order No.
	<b>De-Drossing Tool for Solder Pot</b>	
	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
	<b>Solder Ladle</b>	
	suitable for removal of fluid solder from the soldering bath. For example for alloy analysis	6ISK714-01

## Solderbath Maintenance Wave

Figure	Description	Order No.
	<b>Solder Scrapper blue</b>	
	this tool is used together with the tool for the remove dross. A optimal tool to separate the oxids from the usefull solder	6ISK714-03
	<b>Tool to remove dross blue</b>	
		100692
	<b>Multigrip pliers (pair), 240 mm length</b>	
		6ZT00095
	<b>Scraper flexible</b>	
		100676
	<b>Brush flat sor. 40 1"</b>	
		6ZT00073
	<b>Spatula b=150 mm blue</b>	
		100449
	<b>Silicon brush</b>	
		112539
	<b>Scraper - silicon</b>	
	Small	112541
	Large	112540
	<b>Wooden scraper</b>	
		112537
	<b>De-Drossing Tool Set f.Solder Pot green</b>	
		265515

## Solderbath Maintenance Wave

Figure	Description	Order No.
	<b>Cover oil HAT (Pump drive) 1 l Tin</b> 1 l - can for the cover of the pump drive at wave soldering machines. Prevent surface oxidation. HAT is synthetic and oil-free	4HMHT
	<b>Removing tool with interlocking</b> nozzle removing tool for ERSA wave nozzles	12555
	<b>Red oxide paint 750 g/tin</b> 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.
	<b>De-Drossing Tool</b> „consist of: 3x Brush flat sor. 40.1"" 6ZT0073 1x Service gloves (pair), size L 6HDSGLGEW-290 1x Ladle for feeding pipe 100613 1x Scraper flexible 100676 1x Spoon to remove dross in versflow pot 100604 1x Solder Laddle 6ISK714-01	
	blue	4SNP00-ZB0-010
	green	265539
	<b>Nozzle Removal Tool Version 2</b> for selective nozzle standard and thin	6ISK47957091
	<b>Combi tool for nozzle removal</b> optimal combi tool to remove the nozzle and the gasification ring of selective soldering machines	6ISK47957090A
	<b>Tongs for the exchange of tips</b>	3ZT00164
	<b>Cleaning paste IF930 nozzles</b> for cleaning / activation of wettable selective nozzles	
	10 ccm	179904
	30 ccm	179905
	<b>Dispenser for 10 ccm</b> for cartridges 179904	104118
	<b>Reworkpaste for nozzle plates, 500 g</b>	103933

## Solderbath Maintenance Selective

Figure	Description	Order No.
	<b>Cleaning brush f. nozzles diameter 2,5 mm</b> twisted brush with stainless steel bristles 2,5 mm bristle diameter, borderlength: 120 mm, total length: 300 mm	258787
	<b>Brush for tube Ø=3 mm stainless tread M4</b>	47700
	<b>Handle 2,8 - 4 mm black-synthetic</b>	47705
	<b>Brush for tube Ø 5 mm stainless tread M6</b>	47701
	<b>Cleaning brush f. nozzles diameter 6 mm</b>	247811
	<b>Brush for tube Ø 8 mm stainless tread M6</b>	47702
	<b>Brush f. tube Ø 10 mm stainless tread M6</b>	47703
	<b>Handle M6 Dia. 23 L 60</b>	47704
	<b>Tray for solder module</b>	243401
	<b>Spoon to remove dross in versflow pot</b>	100604
	<b>Needle f. dispens.Ø=1,63/1,35;l=25.4viol</b> for rework paste solder nozzles Versaflow	103556
	<b>Cleaning tool for solder nozzles</b> 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
	<b>Needle 90° LL Nr.14 Id 1,6 mm</b>	130271







## Fluxer Selective Machines

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

## Fluxer Selective Machines


Figure	Description	Order No.
	<b>Level sensor</b>	
	capactive level sensor for older pressure tanks	6FLX-SPR-12
	<b>Precision pres reg 0,05-2 bar</b>	
	pressure regulator for pressure tank 234045	101992
	<b>Over pressure valve</b>	
	for pressure tank 234045	205266
	<b>Manometer 0-2,5 bar 1/8"</b>	
	for pressure tank 234045	125875
	<b>PTFE Sealing 1/4" 25% Carbon</b>	
	for pressure tank 234045	259583

## Fluxer Powerflow Series



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



## Fluxer Powerflow Series

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

## Fluxer Powerflow Series

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

## Fluxer ETS, EWS and NWAWE Series

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

## Foam Fluxer





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

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

## Sensor Shuttle PTP








Figure	Description	Order No.
	<b>Ersa Sensor Shuttle</b>	
	Temperature profiling system, suitable for wave soldering and reflow soldering machines, in real time during the passage via bluetooth connection. Delivered in hard case. Calibration certificate as per ISO 9000.  Accessory consisting of: 1x Aluminum case with inlay 1x Shuttle beam 1x Measuring electronic and software PTP 8x Thermocouple Ni/CrNi with plug 1x 10g high temperature solder 1 pair of service gloves size L	131150
	<b>Shuttle carrier</b>	
	carrier for the sensor shuttle PTP	129920
	<b>Measurement Board f. Ersa Sensor Shuttle</b>	
	measurement board for wave soldering machine. Especially for usage with the sensor shuttle PTP	159916
	<b>Li-Ionen Akku globalPoint ICS</b>	
	replacement battery for the sensor shuttle PTP 131150	212495
	<b>Antenna 50R/SMA-M TX,short stub antenna</b>	
	replacement stub antenna for the sensor shuttle PTP	201950
	<b>Antenna 50R/SMA-M RX bendable</b>	
	replacement antenna for the sensor shuttle PTP	223683

Figure	Description	Order No.
	<b>Thermocouple Ni/CrNi with plug</b>	
	thermal element with the adapter for Ersa sensor shuttle 500mm length	6ETHE2x0.20/500
	<b>Thermocouple comp. cable Ni/CrNi</b>	
	yard goods	6ETHE2x0.20NI
	<b>Thermo element compensation cable</b>	
	yard goods	6ETHE2x0.50NI
	<b>Thermo plug „K“ Jumo, male</b>	
	for connection of the thermal sensor cable at the Ersa sensor shuttle	6ETHE-NI-ST
	<b>Thermo coupling „K“ Jumo, female</b>	
	opposite of the thermal plug 6ETH-NI-ST	6ETHE-NI-KU
	<b>Kapton Adhesive tape</b>	
	high temperature tape for fixing of the thermal sensors on the temporary measurement board	6ZT00160
	<b>Service gloves (pair)</b>	
	for the hot area	
	size M	6HDSGLGEW-289
	size L	6HDSGLGEW-290


## Wave Soldering Machines, 250 mm working width

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


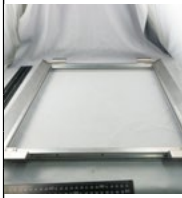
## Spare Parts, 250 mm working width

Abbildung	Bezeichnung	Bestell-Nr.
	<b>Sidebar ETS 250</b>	
	length 360 mm	4KLE25-360-000
	length 420 mm	4KLE25-420-000
	length 500 mm	4KLE25-500-000
	<b>Center bar ETS 250</b>	
	length 360 mm	4DKLE2-360-000
	length 420 mm	4DKLE2-420-000
	length 500 mm	4DKLE2-500-000
	<b>Sidebar stainless steel ETS 250</b>	
	length 600 mm	4KLE25-600-000
	<b>Center bar ETS 250</b>	
	length 600 mm	4DKLE0-600-000


## Wave Soldering Machines, 330 mm working width

Figure	Description	Order No.
	<b>Solder pallet</b>	
	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
	<b>Soldering frame Transport</b>	
	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.
	<b>Solder pallet</b>	
	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
	<b>Soldering frame Transp.</b>	
	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.
	<b>Solder pallet</b>	
	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
	<b>Soldering frame Transp.</b>	
	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


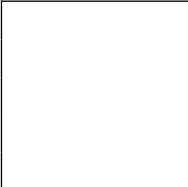








Figure	Description	Order No.
	<b>Support profile</b>	
	Support profile front left	6IN512-0
	Support profile front right	6IN513-0
	Support profile back right	6IN526-0
	Support profile back left	6IN527-0
	<b>Profile for segmented conveyor</b>	
	profile (VL)	118115
	profile (VR)	118119
	profile (HL)	118121
	profile (HR)	118123
	<b>Movable support rail</b>	
	for supply of PCBs in Erska soldering frame	
	330 mm working width	4ZH-330
	400 mm working width	4ZH400
	500 mm working width	4ZH500
	<b>Rail for Soldering frames</b>	
	Like 4ZH-330 - only rail	
	330 mm working width	6ISK275-02
	400 mm working width	6ISK275-03
	500 mm working width	6ISK275-04
	<b>Mounting plate</b>	
	for movable support. One sided PCB holder	6IN490
	<b>Center mounting plate</b>	
	for movable support. two sided PCB holder	6IN490-1
	<b>Sidebar</b>	
	length 420 mm	4KLE00-420-000
	length 500 mm	4KLE00-500-000
	length 600 mm	4KLE00-600-000

Figure	Description	Order No.
	<b>Center bar, length 420 mm</b>	
	for solder frame with 420 mm length	4DKLE0-420-000
	<b>Center bar, length 500 mm</b>	
	for solder frame with 500 mm length	4DKLE0-500-000
	<b>Center bar stainless steel, length 600 mm</b>	
	for solder frame with 600 mm length	4DKLE600
	<b>Clamping clip 130 mm 6 finger, (SS)</b>	
	clip for center- and sidebar to rivet on	6IN127
	<b>Clamping clip 65 mm, 3 finger (SS)</b>	
	clip for center- and sidebar to rivet on	6IN126
	<b>Blind rivet 4,0x4,9AL5 K. BER. 1,6 - 2,9</b>	
	rivet for rivet on the clamping clip 6IN126 and 6IN127	6IN4.0X04.9B
	<b>screw-star handle M4x16 (SS)</b>	
	for the clamping assembly of the Erska center- and sidebar	29548



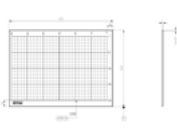
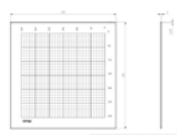
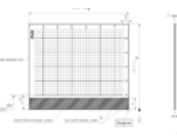
## Auxiliaries and Supplies

Figure	Description	Order No.
	<b>Leak detection spray, 400 ml can</b>	
		6ZT-SPRAY02
	<b>Epoxy glue Art.Nr. 071045600</b>	
	2 components glue for example for fixing the thermal sensor on the measurement board	6X00034
	<b>Spray 400 ml Molykote dry slide film</b>	
	for lubrication at demanding sliding applications. Temperature range -185 to +450 °C. not secreting resin, high pressure resistance, ageing resistance	77781
	<b>Antifreeze can 30 Liter</b>	
	for use in cold water - cooling circulation as Algizid, antifreeze and corrosion protection	6ZT00167
	<b>adipic acid in 1 kg can</b>	
	powder for nozzle activation of wettable selective nozzles	89593
	<b>SILIC ADHESIVE E43 TUBE 90 cm3</b>	
	high temperature silicon glue up to 180 °C	6X00028
	<b>Solder wire SnAg3,8Cu0,7 ø 2 mm, 4 kg</b>	
		50273
	<b>Solder Wire Sn63Pb37 ø 2 mm, 4 kg</b>	
		61662
	<b>Solder wire SN100CE-SnNi Dia. 2 mm 4 kg</b>	
		104134
	<b>Solder wire LF Sn96,5Ag3Cu0,5 D 2mm 4 kg</b>	
		120268

## Auxiliaries and Supplies

Figure	Description	Order No.
	<b>Filter case AN111.01 screwings NW3</b>	
	filter housing for the residual oxygen of different Ersas soldering machines	6FIL-HL-01
	<b>Filter cartridge, activated carbon</b>	
	for the use in the filter housing 6FIL-HL-01 for the residual oxygen of different Ersas soldering machines	6FIL-HL-ZT01
	<b>O-Ring for Filter 6FL-HL-01</b>	
	for the transparent plunger of the filter housing 6FIL-HL-01	6FIL-HL-ZT02

## Auxiliaries and Accessories

Figure	Description	Order No.
	<b>Reference Fixture</b>	
	measurement and calibration board for Ersas selective soldering machines. 390x 480 mm	6ISK47955141
	<b>Reference Fixture 350x350</b>	
	measurement and calibration board for Ersas selective soldering machines. 350x 350 mm	203532
	<b>Glass plate to verify Wave Set-Up</b>	
	in order to measure the wetting length Dimensions: 240 x 325 mm	4ZBGS0240x325
	<b>Glass plate to verify wave setup</b>	
	Size: 380 x 380 mm. Suitable for any wave soldering machine. Made of high temperature glass with 10 mm grid spacing.	4ZBGS0380x380
	<b>Glass plate, heat resistant</b>	
	Grid 300 x 300, black edge for conveyor of selective soldering machines	84584

## Auxiliaries and Accessories









Figure	Description	Order No.
	<b>All purpose pin puller</b> for cutting the conveyor chains	6ZT00187
	<b>Chain rivet remover</b> for chains with plunger diameter over 3 mm	6ZT00189
	<b>Service and Maintenance Trolley</b> for Wave-/ Multiwave-/ and Dip Soldering machines. Service trolley Including special lead-free coated surfaces.	100388
	<b>Mounting sheet for tools</b> tool holder for keeping the soldering pot cleaning tools	100387
	<b>Solder mould</b> aluminum bowl for keeping solder during the exhaust of the soldering pot	247629
	<b>Tool for gasification ring</b> for opening the gasing caps of the Erska soldering machines	243303
	<b>Key for control panel</b> electrical cabinet key	6VERSCHLÜ2531
	<b>Wrench for switch-cupboard</b> square key for opening special doors	252141
	<b>Lock three.corner part 7 mm</b> 2545.000 triangle key for opening special doors	6VERSCHLÜ2554

Figure	Description	Order No.
	<b>Light metal precision level</b> for diverse adjustments	208659
	<b>Cleaning brush stainless steel</b> brush piece 100x 20 mm for example to cleaning the wettable selective nozzles	213024
	<b>Mould for alloy analysis</b> for delivery of the tin testing to ersa in standardized form / size	6ISK714-05A
	<b>Pressing tool</b> for pressing dowl pins in nozzle locking shafts	109687
	<b>Protective gloves (pair)</b> heavy, fleecy quality	
	men	127380
	women	127382
	<b>Service gloves (pair), size M</b> for the hot area	6HDSGLGEW-289
	<b>Cover</b> 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





### ■ 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.



### ■ Automation

Ersa presents the collaborative ROBOPLACE, an innovative automation solution based on a flexible 2-arm technology, which lifts the inline production of PCBs for industry and automotive to the next level.



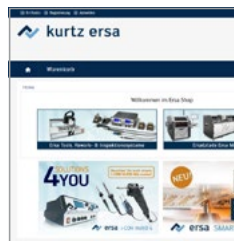
### ■ Services/Employer Trainings

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

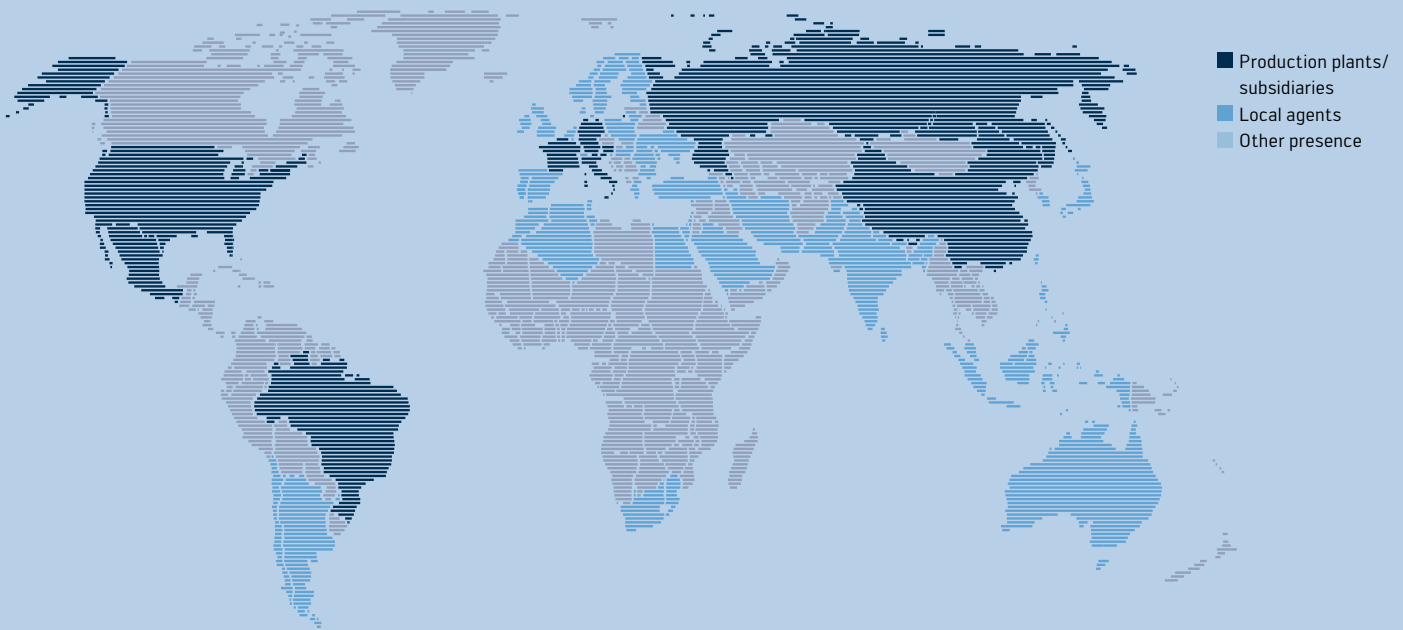
The Ersa Webshop offers spare and wear parts for Ersa soldering machines as well as tools, rework- and inspection systems.

*Always up to date and available 24/7!*

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