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# ACCESSORY CATALOG

## Ersa Soldering Machines

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

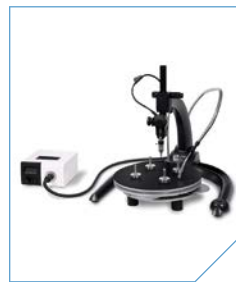
GLOBAL. AHEAD. SUSTAINABLE.

# PORTFOLIO Ersa GmbH



## Stencil Printers

Ersa VERSAPRINT 2 stencil printers are used for printing solder and thermal paste. The high-end models of the VERSAPRINT 2 series provide unique advantages thanks to the fully integrated, full-area SPI at line speed. VERSAPRINT 2 TIM was developed for economical and reproducible thermal paste printing.



## Optical Inspection Systems

For over 20 years, thousands of users worldwide have benefited from the ability to non-destructively inspect hidden solder joints. Whether inspecting under Ball Grid Arrays (BGA) or in areas where other microscopes fail, the ERSASCOPE technology adds significant value to any quality assurance program. Convince yourself of the many advantages of ERSASCOPE inspection systems!



## Reflow Soldering Systems

The HOTFLOW THREE opens up a new chapter in the long success story of Ersa reflow soldering systems. During the past 20 years alone, over 5,000 HOTFLOW reflow ovens have been installed worldwide. HOTFLOW THREE is a clear statement for further increased soldering quality thanks to exact soldering profiles, minimal maintenance and lowest consumption figures.



## Soldering and Desoldering Stations

Ersa soldering and desoldering stations impress with compact dimensions, high performance, energy efficiency and low operating costs as inexpensive replacement tips are used. The i-CON TRACE is the first fully networkable soldering station in the world, making the complete hand soldering process traceable and documentable.



## Selective Soldering Systems

With top technology and modular design, Ersa meets the highest demands for flexibility and throughput – yet fitting any budget. VERSAFLOW, SMARTFLOW and ECOSELECT are on offer by the no. 1 specialist in the field of selective soldering – among them you will also find the ideal solution for your requirements!



## Accessories & Auxiliaries

All about soldering – everything from a single source: Ersa offers not only special equipment, tools and temperature measuring devices, but also auxiliary materials and consumables for the manufacture and repair of high-quality electronics. Ersa solder wires are made of high-quality raw materials and meet all quality requirements.



## Wave Soldering Systems

Thanks to modular design, Ersa POWERFLOW wave soldering systems are suitable for any customer requirement – from high-end full-tunnel nitrogen soldering systems to open atmospheric wave soldering systems. Each model relies on stable processes and reproducible parameters with impressive values in terms of availability, economy and quality to master all wave soldering tasks efficiently and flexibly.



## Solder Fume Extraction

Ersa solder fume extraction units ensure a healthy working environment. Super quiet operational performance, low noise emissions. Adaptable to suit various workplace environments. Standby operation for efficient, material-friendly use. Easy maintenance and servicing.



## Rework Systems and Stations

With strong price/performance ratios and patented IR and hybrid rework technology, Ersa systems have placed themselves at the top of the market. Even in the most challenging SMT/BGA rework applications, they deliver repeatable best-in-class results. Ersa Rework Systems stand for successful rework right from the start.



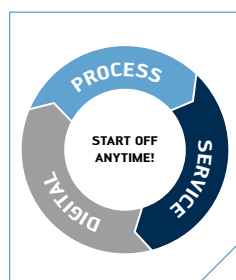
## Sales and Service Network

Around the world, our service technicians are on duty 24/7 to respond to customers' needs and requests. Our global service network consists of 85 service employees, 79 representatives with their own service teams and spare parts warehouses.



## Soldering Robot

The Ersa SOLDER SMART soldering robot is an alternative to classic manual soldering, especially for applications where machine soldering processes reach their limits: e.g. when a cable strand is to be soldered to a board. It delivers solder joints with consistently high quality and reproducibility.



## Workshops, Seminars and Trainings

Benefit from our machines and our knowledge: Ersa offers a comprehensive range of workshops, seminars and trainings in all areas of soldering. All courses incorporate theoretical and practical sessions.

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# NOZZLE OVERVIEW MATRIX

## Nozzle overview for solder pot B22

PLEASE NOTE: at a nozzle height of over 47 mm a consultation with Erska is recommended

possible z-stroke (mm)		H=47	H=52	H=57
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-variable	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
Chain conveyor	ECOSELECT 2	60	55	50
	ECOSELECT 2, z-variable	30	25	20
	ECOCELL	60	55	50
	ECOCELL, z-variable	30	25	20
	VERSAFLOW ONE	80	75	70

Suitable gassing cap for the respective nozzle size:

242715 (D24)	242746 (D34)	252131 (D42)	ID / AD	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		

Other intermediate sizes and/or special sizes on request.

H=62	H=65	H=75	H=80	H=85	H=90
45	42	32			
45	42	32	27	22	17
45	42	32	27	22	
45	42	32	27	22	
45	42	32	27	22	
45	42	32	27	22	
45	42	32	27	22	
45	42	32			
45	42	32			
65	62	52	47	42	37

H=62	H=65	H=75	H=80	H=85	H=90
		300041			
				229921	
199983		216347	278549	278550	
			213419	229923	
199985	135253	206293	251318	316185	197665
199984		206294	251319	316198	314957
197404		235693	211314		314953
	366295	251316	211315		



# NOZZLES Selective Soldering

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

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

## Height 47 mm, B22

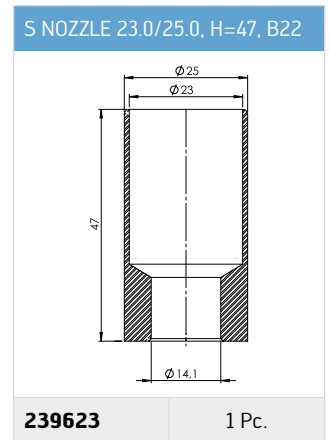
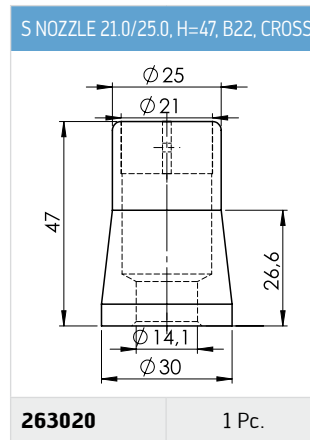
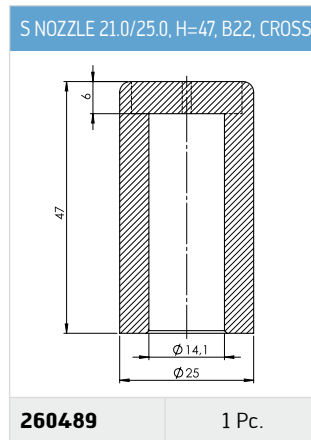
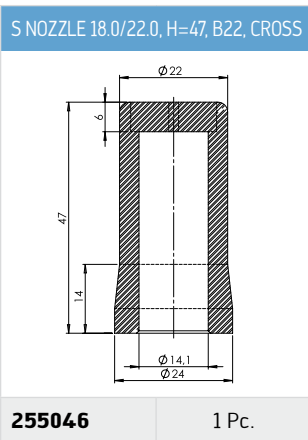
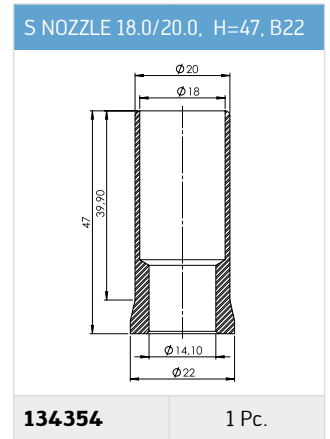
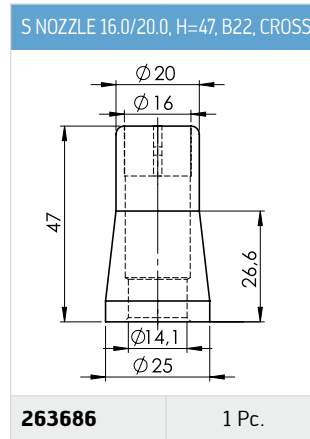
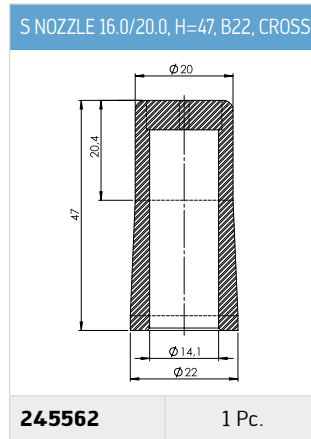
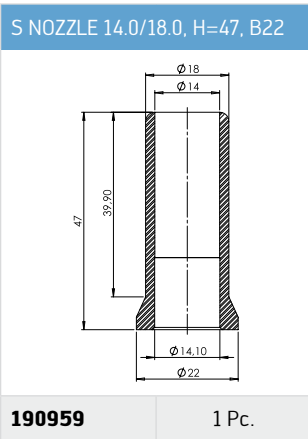
<p>S NOZZLE 2.0/4.5, H=47, B22</p> <p><b>213510</b> 1 Pc.</p>	<p>S NOZZLE 2.4/5.0, H=47, B22</p> <p><b>296767</b> 1 Pc.</p>	<p>S NOZZLE 2.7/5.5, H=47, B22</p> <p><b>296788</b> 1 Pc.</p>	<p>S NOZZLE 3.0/6.0, H=47, B22</p> <p><b>114609</b> 1 Pc.</p>
<p>S NOZZLE 3.5/7.0, H=47, B22</p> <p><b>256501</b> 1 Pc.</p>	<p>S NOZZLE 4.0/8.0, H=47, B22</p> <p><b>114611</b> 1 Pc.</p>	<p>S NOZZLE 5.0/9.0, H=47, B22</p> <p><b>152894</b> 1 Pc.</p>	<p>S NOZZLE 6.0/10.0, H=47, B22</p> <p><b>114613</b> 1 Pc.</p>
<p>S NOZZLE 8.0/12.0, H=47, B22</p> <p><b>118615</b> 1 Pc.</p>	<p>S NOZZLE 10.0/14.0, H=47, B22</p> <p><b>119274</b> 1 Pc.</p>	<p>S NOZZLE 10.0/14.0, H=47, B22, CROSS</p> <p><b>257563</b> 1 Pc.</p>	<p>S NOZZLE 12.0/16.0, H=47, B22</p> <p><b>208094</b> 1 Pc.</p>

# NOZZLES Selective Soldering

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

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

## Height 47 mm, B22



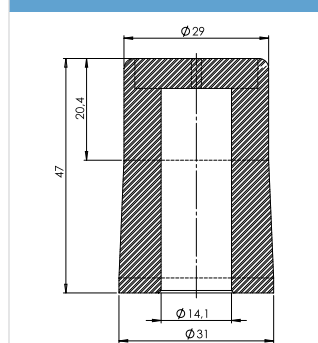
# NOZZLES Selective Soldering

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

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

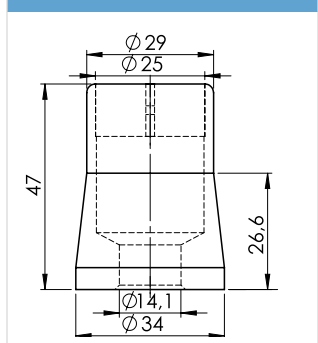
## Height 47 mm, B22

S NOZZLE 25.0/29.0, H=47, B22, CROSS



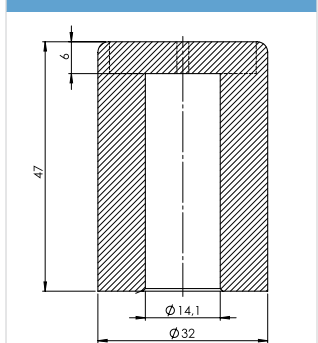
**245561** 1 Pc.

S NOZZLE 25.0/29.0, H=47, B22, CROSS



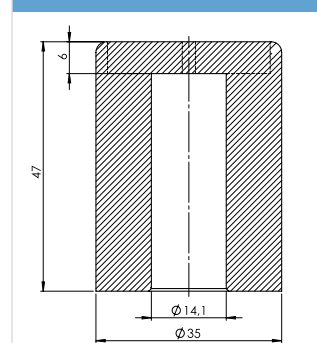
**263514** 1 Pc.

S NOZZLE 28.0/32.0, H=47, B22, CROSS



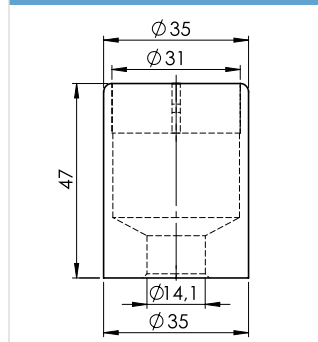
**248298** 1 Pc.

S NOZZLE 31.0/35.0, H=47, B22, CROSS



**255975** 1 Pc.

S NOZZLE 31.0/35.0, H=47, B22, CROSS

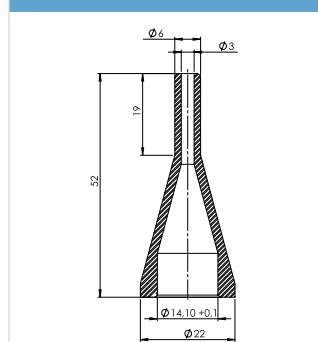


**263689** 1 Pc.

**PLEASE NOTE:**  
 At a nozzle height of over 47 mm a consultation with Erska is recommended

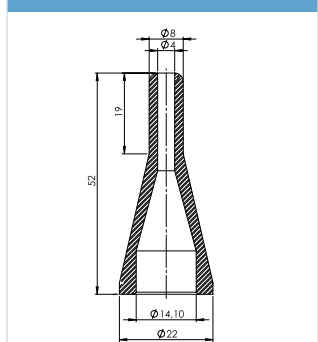
## Height 52 mm, B22

S NOZZLE 3.0/6.0, H=52, B22



**289012** 1 Pc.

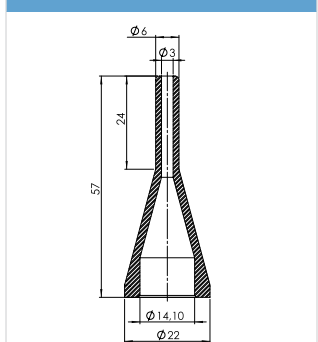
S NOZZLE 4.0/8.0, H=52, B22



**300889** 1 Pc.

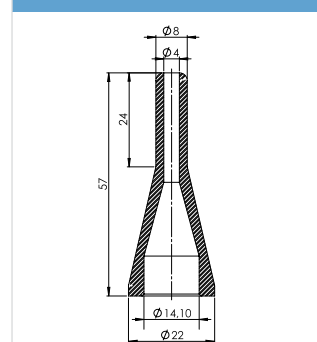
## Height 57 mm, B22

S NOZZLE 3.0/6.0, H=57, B22



**130964** 1 Pc.

S NOZZLE 4.0/8.0, H=57, B22



**189478** 1 Pc.



# NOZZLES Selective Soldering

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

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

## Height 57 mm, B22

## Height 62 mm, B22

S NOZZLE 6.0/10.0, H=57, B22

**189479** | 1 Pc.

S NOZZLE 8.0/12.0, H=57, B14

**203778** | 1 Pc.

S NOZZLE 10.0/14.0, H=57, B14.1

**320491** | 1 Pc.

S NOZZLE 2.0/4.5, H=62, B22

**248354** | 1 Pc.

## Height 62 mm, B22

S NOZZLE 3.0/6.0, H=62, B22

**199983** | 1 Pc.

S NOZZLE 4.0/8.0, H=62, B22

**199985** | 1 Pc.

S NOZZLE 6.0/10.0, H=62, B22

**199984** | 1 Pc.

S NOZZLE 8.0/12.0, H=62, B22

**197404** | 1 Pc.

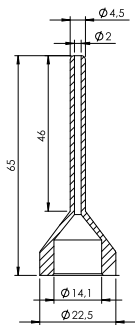
# NOZZLES Selective Soldering

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

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

## Height 65 mm, B22

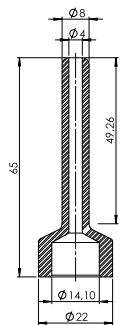
S NOZZLE 2.0/4.5, H=65, B22 .5



250821

1 Pc.

S NOZZLE 4.0/8.0, H=65, B22

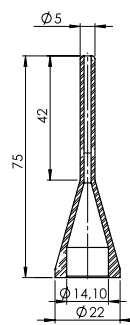


135253

1 Pc.

## Height 75 mm, B22

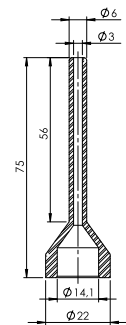
S NOZZLE 2.4/5.0, H=75, B22



300041

1 Pc.

S NOZZLE 3.0/6.0, H=75, B22

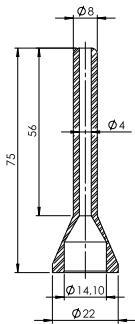


216347

1 Pc.

## Height 75 mm, B22

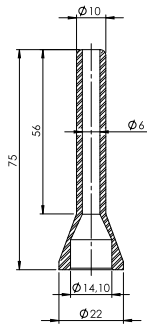
S NOZZLE 4.0/8.0, H=75, B22



206293

1 Pc.

S NOZZLE 6.0/10.0, H=75, B22

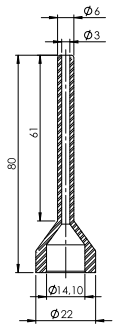


206294

1 Pc.

## Height 80 mm, B22

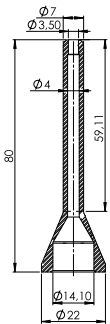
S NOZZLE 3.0/6.0, H=80, B22



278549

1 Pc.

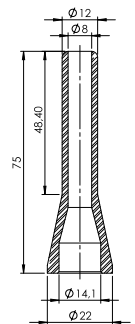
S NOZZLE 3.5/7.0, H=80, B22



213419

1 Pc.

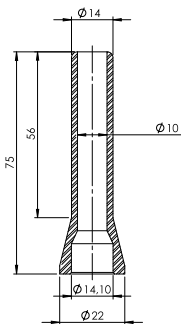
S NOZZLE 8.0/12.0, H=75, B22



235693

1 Pc.

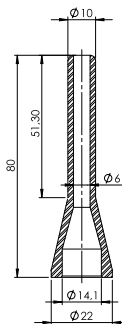
S NOZZLE 10.0/14.0, H=75, B22



251316

1 Pc.

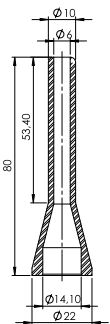
S NOZZLE 6.0/10.0, H=80, B22



211313

1 Pc.

S NOZZLE 6.0/10.0, H=80, B22



251319

1 Pc.

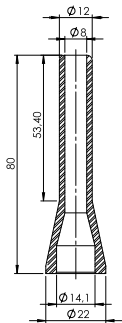
# NOZZLES Selective Soldering

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

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

## Height 80 mm, B22

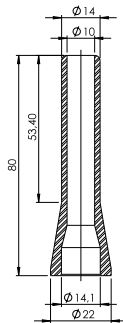
S NOZZLE 8.0/12.0, H=80, B22



211314

1 Pc.

S NOZZLE 10.0/14.0, H=80, B22

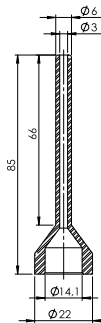


211315

1 Pc.

## Height 85 mm, B22

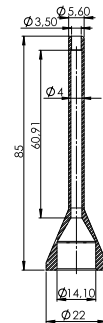
S NOZZLE 3.0/6.0, H=85, B22



278550

1 Pc.

S NOZZLE 3.5/5.6, H=85, B22

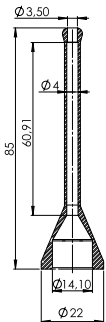


229921

1 Pc.

## Height 85 mm, B22

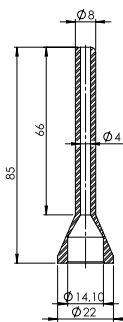
S NOZZLE 3.5/7.0, H=85, B22



229923

1 Pc.

S NOZZLE 4.0/8.0, H=85, B22

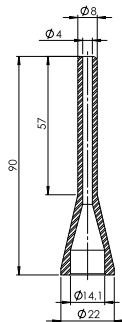


316185

1 Pc.

## Height 90 mm, B22

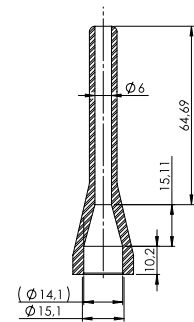
S NOZZLE 4.0/8.0, H=90, B22



197665

1 Pc.

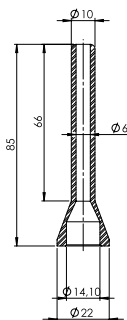
S NOZZLE 6.0/10.0, H=90, B22



314957

1 Pc.

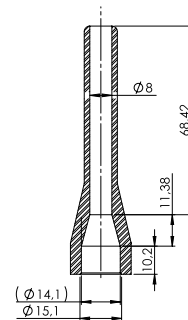
S NOZZLE 6.0/10.0, H=85, B22



316198

1 Pc.

S NOZZLE 8.0/12.0, H=90, B22



314953

1 Pc.

# NOZZLES Selective Soldering

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

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

## Height 47 mm, B36

<p>S NOZZLE 2.5/4.0, H=47, B36</p> <p><b>33143</b> 1 pc.</p>	<p>S NOZZLE 3.0/4.5, H=47, B36</p> <p><b>Gisk47957021a</b> 1 pc.</p>	<p>S NOZZLE 3.0/6.0, H=47, B36</p> <p><b>Gisk47957020a</b> 1 pc.</p>	<p>S NOZZLE 3.5/10.0, H=47, B36</p> <p><b>25420</b> 1 pc.</p>
<p>S NOZZLE 4.0/8.0, H=47, B36</p> <p><b>Gisk47957022a</b> 1 pc.</p>	<p>S NOZZLE 8.0/12.0, H=47, B36</p> <p><b>25421</b> 1 pc.</p>	<p>S NOZZLE 10.0/14.0, H=47, B36</p> <p><b>Gisk47957023</b> 1 pc.</p>	<p>S NOZZLE 12.0/16.0, H=47, B36</p> <p><b>96112</b> 1 pc.</p>

## Height 56 mm, B36

<p>S NOZZLE 3.0/4.5, H=56, B36</p> <p><b>64673</b> 1 pc.</p>	<p>S NOZZLE 4.0/8.0, H=56, B36</p> <p><b>64654</b> 1 pc.</p>
--	--

## Height 58 mm, B36

<p>S NOZZLE 3.0/6.0, H=58, B36</p> <p><b>137134</b> 1 pc.</p>
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## Height 75 mm, B36

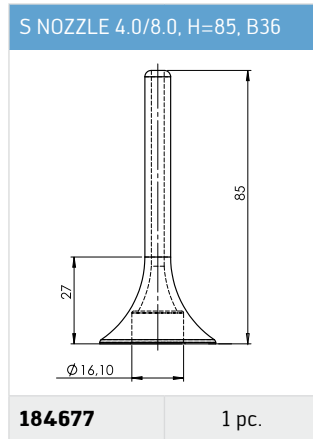
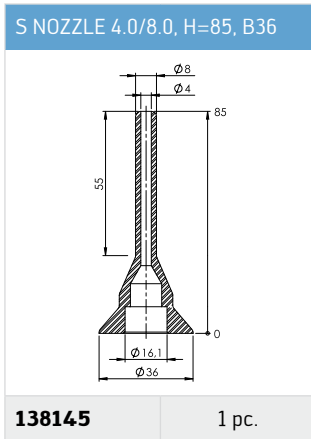
<p>S NOZZLE 4.0/8.0, H=75, B36</p> <p><b>184678</b> 1 pc.</p>
---

# NOZZLES Selective Soldering

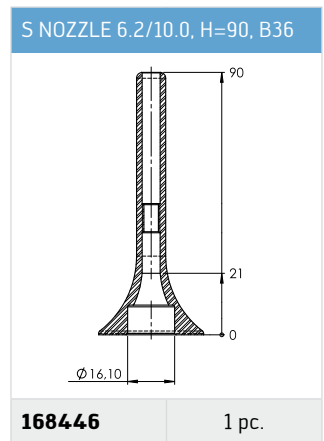
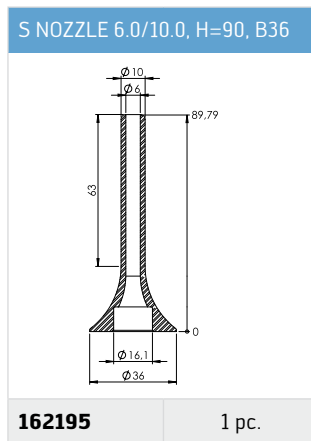
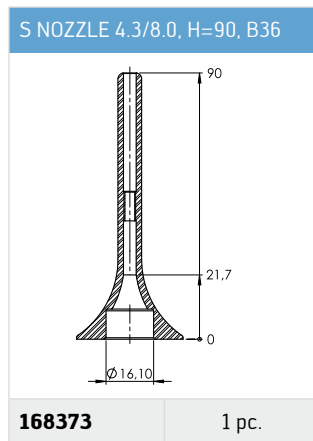
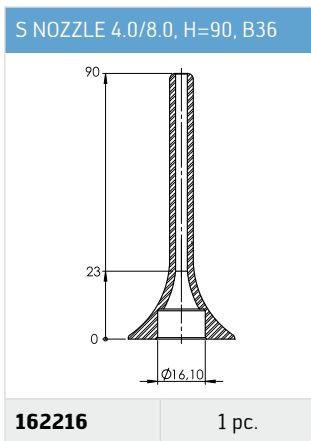
Finger Conveyor = (M)  
 Roller Conveyor = (R)  
 Pin-and-Chain Conveyor = (K)

	max. nozzle height	variable z-axis		max. nozzle height	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)	VERSAFLOW ONE	≤ 90 mm (K)	≤ 90 mm (K)

## Height 85 mm, B36



## Height 90 mm, B36






# LUBRICANTS





## and Cleaning Products

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

### Lubricants

Figure	Description	Order No.
	<b>High-temperature cain oil</b>	
	LUBCON – special oil, Turmofluid 40B, 0.4 l spray can	6XOEL24-0.4S
	LUBCON – special oil, Turmofluid 40B, 0.5 l bottle	6XOEL24-0.5
	<b>High-temperature grease UH1-96-402</b>	
	Delivery in 80 g tubes	171146
	<b>OKS 250 g metal-free multi paste</b>	
	250 g can	210939
	80 g tube and 5 lube brushes	211218
	80 ml tube – not suitable for selective soldering when in contact with solder	216540
	<b>Grease TAS-WT up to 1400 °C – 100 g tube</b>	
	LUBCON – special lubricant, TURMOPAST 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 dip module) in selective and wave soldering machines	210860
	<b>Grease gun filled with Isoflex NBU15</b>	
	Contains 50 g grease	210996
	<b>Lubrication set Isoflex NBU15</b>	
	50 g tube and lube brush	214163
	<b>Grease Klueber Microlube GL 261, 40 g</b>	
	Lubrication of linear track with high stress	210862
	<b>Brush for grease</b>	
	Brush for grease	211209

### Lubricants

Figure	Description	Order No.
	<b>Grease gun</b>	
	Pressol plunger push press with cupped and pointed adapter, connection thread M10x1, size 80 cm <sup>3</sup> , AD 43 mm, L = 140 mm	92159
	<b>Klüberplex BEM 34-132</b>	
	1 kg can	343055
	<b>Grease gun (empty)</b>	
	For parker axes of VERSAFLOW 4	343049
	<b>Hand lever grease gun with snout (empty)</b>	
	For z-axis of the selective solder pot	343056

### Cleaning products


Figure	Description	Order No.
	<b>ESD cleaner, 1 l</b>	
	For cleaning of ESD-plates – not suitable for acrylic plates	211125
	<b>Cleaning set acrylic plates + ESD foil</b>	
	ESD cleaner with high-performance microfibre cloth	211214
	<b>Cleaning cloth Vermop Softy</b>	
	For cleaning of acrylic glass panes in machine covers	211207
	<b>Cleaning cloth for spray heads</b>	
	Lint-free cleaning cloth, size 100 mm x 100 mm	17231
	<b>Sygot cleaner, 5 l can</b>	
	Cleaner for high contamination especially in reflow- and wave soldering machines	302619




# FLUXES

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.


## Low-residue No-Clean fluxes

Figure	Description	Order No.
	<b>Flux IF 2005M</b>	
	1.8% solid content suitable for leaded and lead-free wave soldering	
	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	4HMJT2005-10
	25 l can	4HMJT2005-25
	<b>Flux IF TS15</b>	
	1.5% solid content, foamable	
	10 l can	4FMJFTS15-10
	25 l can	4FMJFTS15-25
	200 l barrel	4FMJFTS15-200
	<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	4FMRA200-5
	<b>Flux RA201, 5 l can</b>	
2% solid content, halogen-free activated, no resins	4FMRA201-5	
<b>Thinner for flux RA201, 5 l can</b>		
5 l can. Transport information: GGVSE/ADR as of 1.1.2003 UN No. 1993, flammable liquid substance n.o.s. Contains ethanol and isopropanol, 3, VPII, special provision 640 D, transport category 2, WGK 1	4HMVER201-5	
<b>Flux IF 2005K</b>		
2.5% solid content, suitable for lead-free wave soldering and leaded selective soldering		
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 leaded and lead-free selective soldering		
1 l bottle	4FMJF2005C-1	
10 l can	4FMJF2005C-10	
25 l can	4FMJF2005C-25	

## Water based fluxes

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 residues, high compatibility with conformal coat- ing, 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 residues, high compatibility with conformal coating, suitable for wave soldering and foam fluxing	
	1 l bottle	4FMJF2010-1
	10 l can	4FMJF2010-10
	<b>Flux IF 2040</b>	
	6.5% solid content, low residues high compatibility with conformal coating, suitable for selective soldering	
	1 l bottle	4FMJF2040-1
	10 l can	4FMJF2040-10
25 l can	4FMJF2040-25	

## Fluxes 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

# SOLDER BATH


## Maintenance

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.




### General solder bath maintenance

Figure	Description	Order No.
	<b>Service gloves (pair)</b>	
	For the hot area	
	Size M	6HDSGLGEW-289
	Size L	6HDSGLGEW-290
	<b>Mold for alloy analysis</b>	
	For the tin analysis at Erska	6ISK714-05A
	<b>Brush flat, 25 mm x 7 mm</b>	
	Tampico bristles, green	317108
	<b>Brush flat 25 mm x 7 mm</b>	
	Tampico bristles, blue	317109
	<b>Brush flat 35 mm x 12 mm</b>	
	Tampico bristles, green	317110
	<b>Brush flat 35 mm x 12 mm, Istle blue</b>	
	Tampico bristles, blue	317111
	<b>Brush flat 60 mm x 20 mm</b>	
	Tampico bristles, green	317113
	<b>Brush flat 60 mm x 20 mm</b>	
	Tampico bristles, blue	317114
	<b>Brush flat 25 mm x 7 mm</b>	
	China bristles	317115
	<b>Brush flat 35 mm x 12 mm</b>	
	China bristles	317116
	<b>Brush flat 60 mm x 20 mm</b>	
	China bristles	317117

### Solder bath maintenance: wave soldering

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

### Solder bath maintenance: wave soldering





Figure	Description	Order No.
	<b>Solder ladle</b>	
	Suitable for removal of liquid solder from the solder bath, for example for alloy analysis	6ISK714-01
	<b>Solder scrapper, blue</b>	
	This tool is used together with the dross remover, an optimal tool to separate the oxides from the useful solder	6ISK714-03
	<b>Dross remover, blue</b>	
		100692
	<b>Multigrip pliers (pair)</b>	
	240 mm length	6ZT00095
	<b>Scraper, flexible</b>	
		100676
	<b>Brush flat sor. 40 1"</b>	
		6ZT00073
	<b>Spatula, w=150 mm, blue</b>	
		100449
	<b>Silicone brush</b>	
		112539
	<b>Silicone scraper</b>	
	Small	112541
	Large	112540
	<b>Wooden scraper</b>	
		112537
	<b>Cover oil HT (pump drive)</b>	
	1 l can for the covering of the pump drive in wave soldering machines, prevents surface oxidation, is synthetic and oil-free	4HMHT
	<b>Removing tool with interlocking</b>	
	Nozzle removing tool for Erska wave nozzles	12555
	<b>Red oxide paint 750 g/can</b>	
	Protective paint for molded solder pots	4HMFARBE

# SOLDER BATH


## Maintenance

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

### Solder bath maintenance: selective soldering

Figure	Description	Order No.
	<b>De-drossing tool set for mini wave pot</b>	
	<b>Consisting of:</b> 3x brush flat (6ZT00073) 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 VERSAFLOW pot (100604)	
	Blue	4SNP00-ZB0-010
	Green	265539
	<b>Solder ladle</b>	
	Square solder pots	332154
	<b>Ladle for feeding pipe</b>	
	Blue	100613
	Green	299969
	<b>Ladle for feeding pipe DIP</b>	
	Blue	253480
	Green	297440
	<b>Nozzle removal tool</b>	
	For selective nozzles standard and thin	6ISK47957091
	<b>Combi tool for nozzle removal</b>	
	Optimal combi tool to remove the nozzle and the gaasing ring of selective soldering machines	6ISK47957090A
	<b>Nozzle removal tool</b>	
		3ZT00164
	<b>Cleaning paste IF930 for nozzles</b>	
	For cleaning / activation of wettable selective nozzles	
	10 ccm	179904
	30 ccm	179905
	<b>Cleaning brush for nozzles, diameter 2.5 mm</b>	
	Twisted brush with stainless steel bristles 2.5 mm brush, diameter, brush length: 120 mm, total length: 300 mm	258787
	<b>Cleaning brush for nozzles, diameter 6 mm</b>	
		247811

### Solder bath maintenance: selective soldering











Figure	Description	Order No.
	<b>Brush for tube ø =3 mm</b>	
	Stainless steel bristles, tread M4	47700
	<b>Brush for tube ø =5 mm</b>	
	Stainless steel bristles, tread M6	47701
	<b>Brush for tube ø =8 mm</b>	
	Stainless steel bristles, tread M6	47702
	<b>Brush for tube ø =10 mm</b>	
	Stainless steel bristles, tread M6	47703
	<b>Handle, 2.8 - 4 mm, synthetic material</b>	
		47704
	<b>Handle 2.8 - 4 mm black-synthetic</b>	
		47705
	<b>Tray for solder module</b>	
		243401
	<b>Spoon to remove dross in VERSAFLOW pot</b>	
		100604
	<b>Dispensing needle, ø =1.63/1.35, l=25.4, viol</b>	
	For cleaning paste for VERSAFLOW solder nozzles	103556
	<b>Cleaning tool set for solder nozzles</b>	
	Tool set for cleaning and activation of solder nozzles	106249
	<b>Consisting of:</b> 2x Cleaning paste IF930 (order no. 179904, HS code 38109090) 5x Dispensing needle (order no. 103556, HS code 73181590) 1x Brush for tube (order no. 47703, HS code 96035000) 1x Handle for tube brush (order no. 47704, HS code 84879090) 1x Cleaning brush (order no. 213024, HS code 96039099)	
	<b>Needle 90° LL Nr. 14 Id 1.6 mm</b>	
		130271

# FLUXER






## Accessories

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.






### Fluxer: selective soldering systems

Figure	Description	Order No.
	<b>Spray head Flux-Jet II – 130 µm</b>	6FLX-REA06-4
	<b>Spray head Flux-Jet II – 1/180 µm</b>	6FLX-REA08-4
	<b>Spray head Flux-Jet II – 1/270 µm</b>	6FLX-REA07-4
	<b>Sealing ring for Wedotec – spray head</b> For nozzle plate of the spray heads 6FLX-REA06, 6FLX-REA08 and 6FLX-REA07	82240
	<b>Spring part with sealing, Wedotec</b> For spray heads 6FLX-REA06, 6FLX-REA08 and 6FLX-REA07	156252
	<b>Wear set Flux-Jet, Wedotec</b> Consisting of: 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 plates of spray heads of VERSAFLOW and ECOCELL selective soldering machines	17233
	<b>2 l pressure tank, V4A, 1.4404</b> Pressure tank for selective soldering machines	234045
	<b>Flux container VERSAFLOW 4, 2 l</b>	274239
	<b>Float switch</b> For spray pressure tank	203148
	<b>Evaporating plate</b>	231417

### Fluxer: selective soldering systems

Figure	Description	Order No.
	<b>Level sensor</b> Capacitive level sensor for older pressure tanks	6FLX-SPR-12
	<b>High-precision pressure regulator, 0.05 – 2 bar</b> Pressure regulator for pressure tank 234045	101992
	<b>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
	<b>Cleaning needle for nozzle 130 – 270 µ</b> For spray heads of the VERSAFLOW and ECOCELL selective soldering machines	78722

### Fluxer: POWERFLOW series











Figure	Description	Order No.
	<b>Spray head, flood gate KA-2/SW jet</b> Nozzle: 0.3 mm Nozzle: 0.5 mm	110089 184409
	<b>Quick change holder, spray head KA-2/SW</b> For spray heads 110089 and 184409	110091
	<b>Spray head complete, flood gate</b> Set with spray head and quick change mount	110095
	<b>Repair kit, small</b> For spray head 110089	138113
	<b>Repair kit, big</b> For spray head 110089	138111
	<b>Repair kit, small</b> For spray head 184409	337923

# FLUXER

## Accessories

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

### Fluxer: POWERFLOW series

Figure	Description	Order No.
	<b>Repair kit, sealing</b> For spray head holder (110091), contains all installed seals	164292
	<b>Nozzle 0.3 mm</b> Fluid nozzle for 110089, with 0.3 mm diameter	207521
	<b>Needle 0.2 / 0.3 mm</b> Needle for spray head 110089, with 0.3 mm fluid nozzle	245214
	<b>Flux head 0.5 mm</b> Fluid nozzle with 0.5 mm for gate spray head, use only in conjunction with the suitable needle 235322!	235321
	<b>Needle for flux head inox 1.4571</b> Needle for gate spray head, use only 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 for gate spray head, for diameter conversion from 0.3 mm to 0.5 mm	136796
	<b>Pressure spring 0.7x13.5 mm</b> For spray head 110089	233202
	<b>O-ring, 2.9 x 1.78 mm, Viton</b>	234130
	<b>O-ring, 8.5 x 1.8 mm, Viton</b>	234132
	<b>O-ring, 5 x 1 mm, Viton</b>	236550

### Fluxer: POWERFLOW series

Figure	Description	Order No.
	<b>O-ring, 3x1 mm</b>	271979
	<b>O-ring, 18x1.5 mm</b>	246024
	<b>Cap ring, 23x10 mm</b>	266004
	<b>Spray nozzle air cap, 60°, stainless steel</b>	224571

### Fluxer: ETS, EWS and NWAWE series

Figure	Description	Order No.
	<b>Spray unit</b>	6ISK171009
	<b>Spray head repair kit</b> Contains all seals and needle	6FLXSPR-14
	<b>Spray nozzle 2050 (stainless steel)</b> Replacement fluid nozzle for standard spraying systems	6FLXSPR-02
	<b>Spray nozzle 1650 (stainless steel)</b> Fluid nozzle for spraying systems for reduced flux application	6FLXSPR-02-S1
	<b>Spray nozzle 2850 (stainless steel)</b> Fluid nozzle for spraying systems for increased flux application	6FLXSPR-02-S2
	<b>Air nozzle 67228, 45°, stainless steel</b>	6FLXSPR-03

# FOAM FLUXER/ horus® measuring boards

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

## Foam fluxer





Figure	Description	Order No.
	<b>Foam tube 25 mm, ø 41 mm</b>	
	Average pore size 10 µm, foam tube packed individually for dust protection	6IN131
	<b>Foam tube 330 mm, ø 41 mm</b>	
	Average pore size 10 µm, foam tube packed individually for dust protection	6IN045-1

Figure	Description	Order No.
	<b>Foam tube 400 mm, ø 41 mm</b>	
	Average pore size 10 µm, foam tube packed individually for dust protection	6IN045-2
	<b>Foam tube 450 mm, ø 41 mm</b>	
	Average pore size 10 µm, foam tube packed individually for dust protection	6IN045-3

## horus® measuring boards



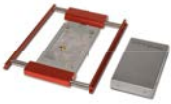
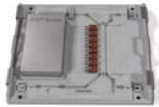

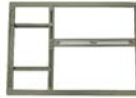




Figure	Description	Order No.
	<b>horus® measuring electronics + software</b>	
	8 channels, real-time data, for reflow convection, wave, selective, general temperature-time profiles, measuring range -140 – 795 °C  <b>Consisting of:</b> 1x horus® electronics and software 1x calibration horus® electronics (incl. certificate with DKD reference)	0GP-ME-V2
	<b>Measuring electronics VP/VAC + software</b>	
	Height 4 or 5 cm, 8 channels, real-time radio data transmission, for use in vapor phase and vacuum reflow soldering systems, (incl. vacuum chamber)	0GP-ME002
	<b>horus® shuttle / E-carrier / thermal protection</b>	
	The horus® shuttle is designed for the reflow measurement board as well as for the placement behind the PCB and realizes the thermal protection for the horus® electronics, which is particularly necessary during the reflow process.	0GP-SH002
	<b>Measuring board SELECTIVE V5</b>	
	Standard 300 mm x 330 mm [WxL], 8 sensors	0GP-SE001

Figure	Description	Order No.
	<b>Measuring board VACUUM V6</b>	
	Small: 250 mm x 400 mm [WxL], 8 sensors Large: 500 mm x 400 mm [WxL], 8 sensors	0GP-VA-2540 0GP-VA-5040
	<b>Carrier plate for vacuum shuttle</b>	
	280 mm x 400 mm [WxL]	0GP-SH-V-2840
	<b>Carrier plate for vacuum shuttle</b>	
	530 mm x 400 mm [WxL]	0GP-SH-V-5340
	<b>Carrier plate for vacuum shuttle</b>	
	630 mm x 400 mm [WxL]	0GP-SH-V-6340
	<b>Measuring board REFLOW V6</b>	
	Small: 250 mm x 434 mm [WxL], 8 sensors Large: 500 mm x 434 mm [WxL], 8 sensors	0GP-RE2544 0GP-RE5044
	<b>Measuring board WAVE V6</b>	
	Standard 300 mm x 330 mm [WxL], 8 sensors	0GP-WE001




# FOAM FLUXER/ horus® measuring boards

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

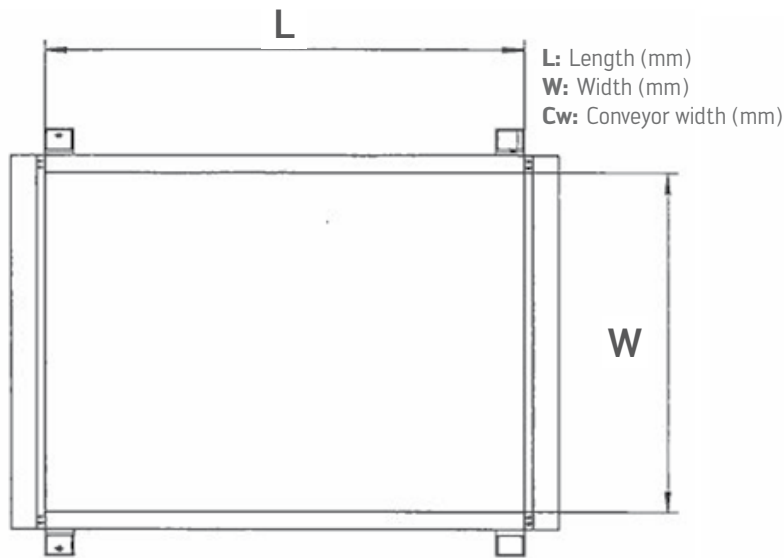
## horus® measuring boards

Figure	Description	Order No.
	<b>Thermocouple Ni/CrNi with plug</b>	
	Thermal element with plug for Sensor Shuttle, 500 mm length	6ETHE2x0.20/500
	<b>Thermocouple cable Ni/CrNi</b>	
	Yard goods	6ETHE2x0.20NI
	<b>Thermocouple compensation cable</b>	
	Yard goods	6ETHE2x0.50NI
	<b>Thermo plug "K" Jumo, male</b>	
	For connection of the thermal sensor cable at the Sensor Shuttle	6ETHE-NI-ST
	<b>Thermo coupling "K" Jumo, female</b>	
	Counterpart of thermal plug 6ETH-NI-ST	6ETHE-NI-KU
	<b>Kapton adhesive tape</b>	
	10 mm	6ZT00160
	25 mm	3RRKAPTON
	High-temperature tape to fix thermal sensors on the temporary measurement board	
	<b>Service gloves (pair)</b>	
	For the hot area	
	Size M	6HDSGLGEW-289
	Size L	6HDSGLGEW-290
	<b>K-type thermocouple</b>	
	PFA/insulation (+260 °C) 2x 0.03 mm / L = 300 mm	340109
	Fibreglass insulation (+320 °C) 2x 0.2 mm / L = 300 mm	339701
	Fibreglass insulation (+320 °C) 2x 0.2 mm / L = 400 mm	339702
	Fibreglass insulation (+320 °C) 2x 0.2 mm / L = 500 mm	339703
	<b>K-type sheathed thermocouple</b>	
	Inconel® (+320 °C), D = 0.5 mm / L = 150 mm	340082
	Inconel® (+320 °C), D = 0.5 mm / L = 200 mm	340083
	Inconel® (+320 °C), D = 0.5 mm / L = 250 mm	340085
	Inconel® (+320 °C), D = 0.5 mm / L = 300 mm	340086
	Inconel® (+320 °C), D = 0.5 mm / L = 400 mm	340000
	Inconel® (+320 °C), D = 0.5 mm / L = 500 mm	340087

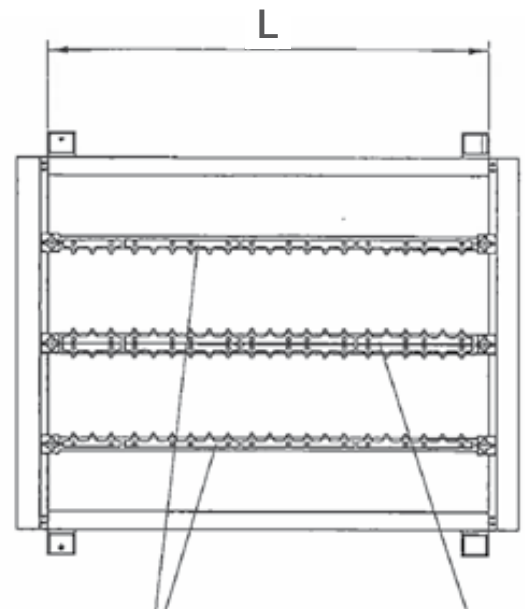
Figure	Description	Order No.
	<b>1 set, 8 K-type thermocables, fibreglass insulation (M-F +320 °C)</b>	
	Without labelling, graduated lengths: 2x 120 mm 2x 150 mm 2x 180 mm 2x 220 mm	340393
	Without labelling, graduated lengths: 4x 150 mm 4x 200 mm	341242
	Labelling 1 – 8 graduated lengths: 220 mm – 350 mm	340149
	L = 400 mm, labelling 1 – 8	341245
	L = 400 mm, without labelling	341247
	<b>1 set, 8 K-type thermocables, PTFE insulation (M-F, +260 °C)</b>	
	L = 250 mm, labelling 1 – 8	340160
	L = 350 mm, labelling 1 – 8	339318
		<b>Accessories PTP® (incompatible with horus®)</b>
	Antenna 50R/SMA-M RX, Knuckle (+80 °C)	223683
	Antenna 50R/SMA-M TX, Stub (+80 °C)	201950
	Data cable USB 2.0 (A to Mini B) 1.8 m	341288
	On/Off switch (miniature plug M, +320 °C, shortcut)	341289
	USB charging adapter, 1.8 m (USB A – miniature plug F)	341290
	SMA antenna cable, 50R	341729
	Li-Ion battery	212495

# SOLDER FRAMES

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.



Wave soldering machine



Clamp Bars

Double clamp bar

## Wave soldering machines: conveyors

L: Length	W=370, Cw=330	W=440, Cw=400	W=540, Cw=500
<b>Standard conveyor:</b>			
360 mm	4LRM360-3SC-F		
420 mm	4LRM420-3SC-F	4LRM420-4SC-F	4LRM420-5SC-F
500 mm	4LRM500-3SC-F	4LRM500-4SC-F	4LRM500-5SC-F
600 mm	4LRM600-3SC-F	4LRM600-4SC-F	4LRM600-5SC-F

**Notice:** Not suitable for ETS 330 soldering machine with only one conveyor drive chain!

### Segmented conveyor:

420 mm	4LRM420-3SC-FL	4LRM420-4SC-FL	4LRM420-5SC-FL
500 mm	4LRM500-3SC-FL	4LRM500-4SC-FL	4LRM500-5SC-FL
600 mm	4LRM600-3SC-FL	4LRM600-4SC-FL	4LRM600-5SC-FL

**Notice:** Solder frame for Ersas POERFLOW with segmented conveyor.

## Wave soldering machines: 250 mm working width

Figure	Description	Order No.
	<b>Solder frame ETS 250</b>	
	Length 360 mm	4LRM360-250
	Length 420 mm	4LRM420-250
	Length 500 mm	4LRM500-250
	<b>Solder frame ETS 250A</b>	
	Length 360 mm, VA	4LRM360-250A
	Length 500 mm, VA	4LRM500-250A
	Length 600 mm, VA	4LRM600-250A

## Wave soldering machines: side/center bars

L: Length	Side bars	Center bars
360 mm	4KLE00-360-000	4DKLE0-360-000
420 mm	4KLE00-420-000	4DKLE0-420-000
500 mm	4KLE00-500-000	4DKLE0-500-000
600 mm	4KLE00-600-000	4DKLE0-600-000










## Spare parts, 250 mm working width

Figure	Description	Order No.
	<b>Side bars ETS 250</b>	
	Length 360 mm	4KLE25-360-000
	Length 420 mm	4KLE25-420-000
	Length 500 mm	4KLE25-500-000
	Length 600 mm	4KLE25-600-000
	<b>Center bars ETS 250</b>	
	Length 360 mm	4DKLE2-360-000
	Length 420 mm	4DKLE2-420-000
	Length 500 mm	4DKLE2-500-000
	Length 600 mm	4DKLE0-600-000

# SOLDER FRAMES

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

## Spare parts, 330 – 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 front left	118115
	Profile front right	118119
	Profile back right	118121
	Profile back left	118123
	<b>Movable support rail</b>	
	To support PCBs in Erska solder frame	
	330 mm working width	4ZH-330
	400 mm working width	4ZH400
	500 mm working width	4ZH500
	<b>Rail for solder 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, on-sided PCB holder	6IN490
	<b>Center mounting plate</b>	
	For movable support, two-sided PCB holder	6IN490-1
	<b>Clamping clip 130 mm, 6 fingers, spring steel</b>	
	Clip for center- and sidebar to rivet on	6IN127
	<b>Clamping clip 65 mm, 3 fingers, spring steel</b>	
	Clip for center- and sidebar to rivet on	6IN126
	<b>Screw-star handle M4x16, stainless steel</b>	
	For the clamping assembly of the Erska center- and sidebar	29548





## Selective soldering machines

Figure	Description	Order No.
	<b>Solder frame SMARTFLOW 2020</b>	
	Universal frame	281460
	Rack PCB receptacle SMARTFLOW – 508 mm	296292
	<b>Solder frame ECOSELECT 1</b>	
	Universal frame 406 x 508 mm	226137
	Longitudinal rack for ECOSELECT 1 – universal adapter	253083
	Universal frame 508x508 mm	245124





# STENCIL PRINTERS

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

## Stencil printers

Figure	Description	Order No.
	<b>Squeegees</b>	
	200 mm set of squeegees (mil.)	188185
	250 mm set of squeegees (mil.)	176177
	300 mm set of squeegees (mil.)	176179
	350 mm set of squeegees (mil.)	176180
	400 mm set of squeegees (mil.)	176181
	450 mm set of squeegees (mil.)	188300
	500 mm set of squeegees (mil.)	183831
	550 mm set of squeegees (mil.)	189797
	600 mm set of squeegees (mil.)	272843
	650 mm set of squeegees (mil.)	286163
	680 mm set of squeegees (mil.)	286164
	700 mm set of squeegees (mil.)	286166
	<b>Vacuum rails</b>	
	Vacuum rail 250 mm	336684
	Vacuum rail 380 mm	336683
	Vacuum rail 420 mm	354887
	Vacuum rail 500 mm	336681
	Vacuum rail 560 mm	336680
	Vacuum rail 600 mm	344643
	Vacuum rail 700 mm	336678
	<b>Cleaning paper</b>	
	Cleaning tissue roll 50, plastic core	186759
	270 mm, roll, 11 m length	157365
	400 mm, roll, 11 m length	157397
	440 mm, roll, 11 m length	361614
	520 mm, roll, 11 m length	212275
	580 mm, roll, 11 m length	157398
	700 mm, roll, 11 m length	192203
	<b>Support pins</b>	
	Support pin	121304
	Support pin (18 dm, black)	352494
	<b>Vacuum support pin</b>	
	5 vacuum support pins	335935

## Stencil printers

Figure	Description	Order No.
	<b>Support blocks</b>	
	400 mm	130313
	<b>HD Grid-Lok</b>	
	HD Grid-Lok-system/ 2 rows/L = 305 mm	142267
	HD Grid-Lok-system/ 2 rows/L = 457 mm	160047
	Additional module, 305 mm	142273
	Additional module, 457 mm	142276
	Optical sensor for "auto mode" (Grid-Lok)	142268
	<b>VarioGrid</b>	
	VarioGrid support system 3x L = 425 mm, W = 44 mm	148051
	VarioGrid support system 3x L = 326 mm, W = 44 mm	154132
	VarioGrid system module L = 425 mm, W = 44 mm	148046
	VarioGrid system module L = 326 mm, W = 44 mm	154134
	VarioGrid system module L = 425 mm, W = 22 mm	148047
	VarioGrid system module L = 326 mm, W = 22 mm	154133
	VarioGrid control – manual operation	153789
	VarioGrid Automatic / Control (E)	202121
	VarioGrid optical sensor (Automatic / Control (E))	202122
	<b>QTZ module</b>	
	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

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

## Auxiliaries and supplies

Figure	Description	Order No.
	<b>Leak detection spray, no. 4861105</b> 400 ml can	6ZT-SPRAY02
	<b>Epoxy glue, tube, no. 071045600</b> Two 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 in demanding sliding applications, temperature range: -185 °C to +450 °C, non-resinous, high pressure resistance, ageing resistance	77781
	<b>Antifreeze can 5 l</b> Algicide, antifreeze and corrosion protection in cold-water cooling circuits	302619
	<b>Adipic acid in 1 kg can</b> Powder for nozzle activation of wettable selective nozzles	89593
	<b>Silicon glue E43, tube 90 cm<sup>3</sup></b> High-temperature silicone glue, permanent up to 180 °C	6X00028

Figure	Description	Order No.
	<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, ø 2 mm, 4 kg</b>	104134
	<b>Solder wire Sn96.5Ag3Cu0.5, ø 2 mm, 4 kg</b>	120268
	<b>Filter case AN111.01 screwings NW3</b> Filter housing for residual oxygen measurement in different Erska soldering machines	6FIL-HL-01
	<b>Filter cartridge, activated carbon</b> For use in filter housing 6FIL-HL-01 for the residual oxygen measurement in different Erska soldering machines	6FIL-HL-ZT01
	<b>O-ring for filter 6FL-HL-01</b> For the transparent plunger of filter housing 6FIL-HL-01	6FIL-HL-ZT02

# AUXILIARIES

## and Supplies

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

### Auxiliaries and accessories



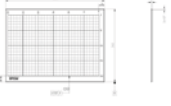
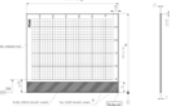






Figure	Description	Order No.
	<b>Reference board</b> Measurement and calibration board for Erska selective soldering machines, 390 mm x 480 mm	6ISK47955141
	<b>Reference board 350 x 350 mm</b> Measurement and calibration board for Erska selective soldering machines, 350 mm x 350 mm	203532
	<b>Glass plate to verify wave set-up</b> In order to measure the wetting length dimensions:	
	Dimensions 227 x 325 mm	4ZBGS0227x332
	Dimensions 240 x 325 mm	4ZBGS0240x325
	Dimensions 249 x 289 mm	4ZBGS0249x289
	Dimensions 249 x 400 mm	4ZBGS0249x400
	Dimensions 250 x 360 mm	4ZBGS0250x360
	Dimensions 320 x 175 mm	4ZBGS0320x175
	Dimensions 350 x 300 mm	4ZBGS0350x300
	Dimensions 380 x 380 mm	4ZBGS0380x380
	Dimensions 400 x 300 mm	4ZBGS0400x300
	<b>Glass plate, heat resistant</b> Grid 300 x 300 mm, black edge for conveyor of selective soldering machines	84584
	<b>Greycard VERSASCAN</b>	329384
	<b>Gas spring assembly tool</b> Enables easier installation of gas struts	123716

Figure	Description	Order No.
	<b>All-purpose pin puller</b> For cutting the conveyor chains	6ZT00187
	<b>Chain rivet remover</b> For chains with pin diameters over 3 mm	6ZT00189
	<b>Service and maintenance trolley</b> For wave/multiwave and selective soldering machines. Service trolley including special lead-free coated surfaces	276400
	<b>Tool rack</b> Tool holder for keeping the solder pot cleaning tools	100387
	<b>Solder mould</b> Aluminum bowl for keeping solder during the emptying of the soldering pot	247629
	<b>Tool for gasification ring</b> For opening the gasing caps of Erska soldering machines	243303
	<b>Key for control panel</b> Electrical cabinet key	6VERSCHLÜ2531



# AUXILIARIES

## and Supplies

Unless specified otherwise in the product description, order numbers refer to a packing unit (pu) of 1 piece.

### Auxiliaries and accessories










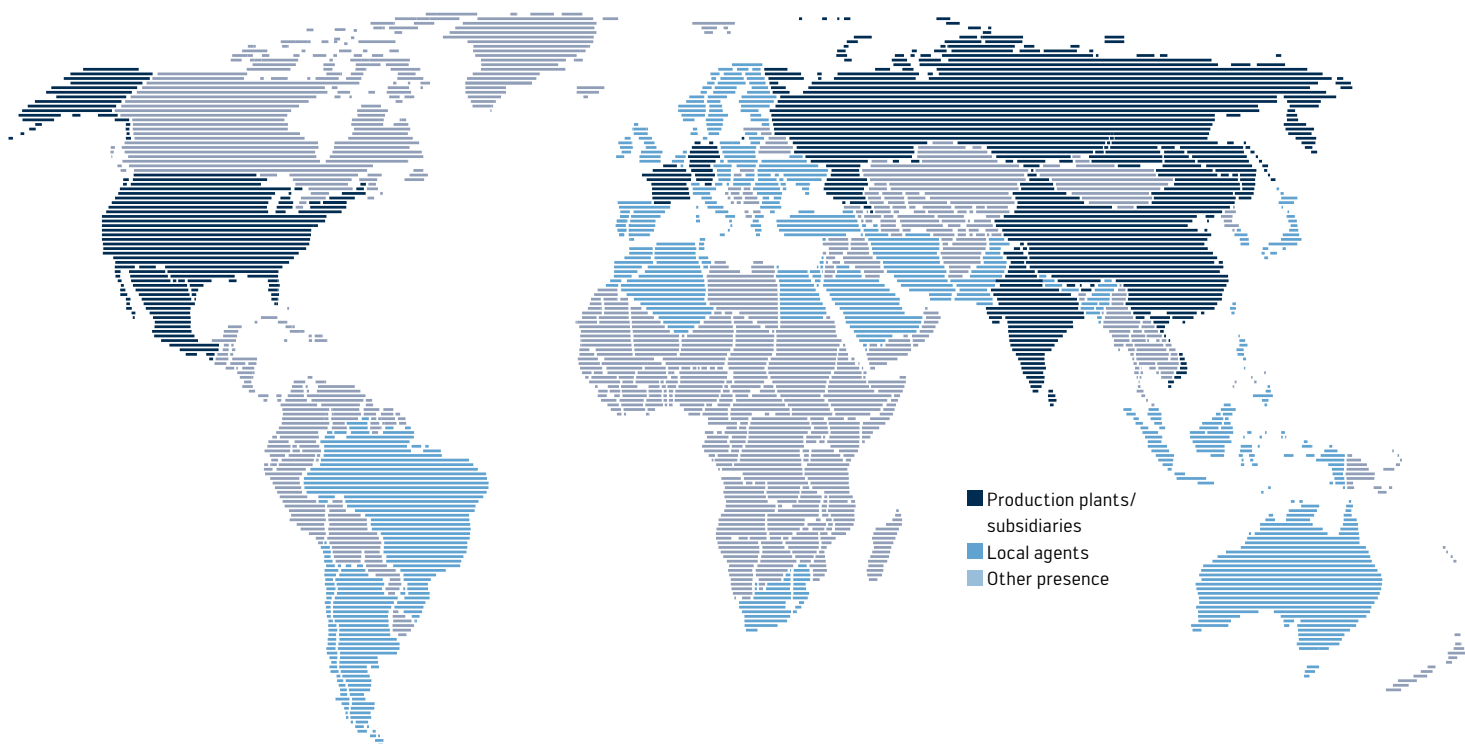
Figure	Description	Order No.
	<b>Wrench for control cabinet</b>	
	Square key for opening special doors	252141
	<b>Triangular wrench, 7 mm, 2545.000</b>	
	Triangle key for opening special doors	6VERSCHLÜ2554
	<b>Light metal precision level</b>	
	For diverse adjustments	208659
	<b>Cleaning brush stainless steel</b>	
	Brush piece 100 x 20 mm, for example to clean wettable selective nozzles	213024
	<b>Mould for alloy analysis</b>	
	For delivery of the tin sample to Ersä in standardized shape / size	6ISK714-05A

Figure	Description	Order No.
	<b>Pressing tool</b>	
	For pressing dowel pins in nozzle locking shafts	109687
	<b>Protective gloves (pair)</b>	
	Heavy, fleecy quality	
	Size M	127382
	Size L	127380
	<b>Service gloves (pair)</b>	
	For the hot area	
	Size M	6HDSGLGEW-289
	Size L	6HDSGLGEW-290
	<b>Cover VERSAFLOW B</b>	
		6ISK47202401
	<b>Cover for VERSAFLOW 3 series</b>	
	Cover without cut-out	233401
	Cover for single pot without fluxer	253569
	Cover for single pot with fluxer	253570
	Cover z-variable without fluxer	253483
	Cover z-variable with fluxer	253484
	Cover y-variable without fluxer	253581
	Cover y-variable with fluxer	253582
	<b>Cover VERSAFLOW 4</b>	
	VERSAFLOW 4/55 and ECOSELECT 4	295249

# ELECTRONICS PRODUCTION EQUIPMENT

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