



## Tweezers, Cutters, Pliers

**Erem<sup>®</sup>**

# Content Erem

## Tweezers 6 – 17

Pointed Tips	8 – 12
Flat Round Tips	12 – 13
Tweezers with Ergonomic Handles	13
SMD Tweezers	14 – 15
Special Gripping Tweezer	16
Wafer Tweezers	16
Cutting Tweezers	17
Stripping Tweezers	17
Extraction Tweezers/Connector Tools	17

## Cutters 18 – 39

Advantages, specifications, listings	20 – 21
How to choose the right tool	22 – 23
Wire Definitions	22
Side and Tip Cutters	24 – 35
– Series 600 Micro	24 – 25
– Series 2400 MagicSense	26 – 27
– Series 500 Medium	28 – 31
– Series 800 Maxi	32 – 33
– Tungsten Hard Metal Cutters	34 – 35
Specials	36
Pneumatic Side Cutters and Tip Cutters	36 – 37
Distance Cutters	38 – 39

## Pliers 40 – 41

## EROP Cutters and Pliers 42 – 43

## Stripping Tools 44

## Pre-Forming Tools 45 – 46

For Passive Components	45
For Active Components	46
For Flat Packs, Quads	46
For DIL/IC	46

## IC and SMD Tools 47

Inserting and Extracting	47
Straightening	47
Cutting + Trimming	47

## Fibre Optic Tools 48

## Vacuum Manipulator 49 – 51

## Kits 50 – 51

## Index 203

Typ	Bezeichnung	sFr. pro Stk.	
		1-4	5-9
OOBSA	OOBSA PINZETTE GERIF. 120MM	25.30	23.60
OOCSA	OOCSA PINZETTE 110MM	22.40	20.95
OOD	OOD PINZETTE 120MM	32.50	30.35
OODSA	OODSA PINZETTE GERIF. 120MM	23.00	21.45
OOSA	OOSA PINZETTE FLACH 120MM	23.00	21.45
OOSASL	OOSASL PINZETTE FLACH 120MM	13.60	12.65
024C	024C PINZETTE	62.50	58.35
102ACA	102ACA PINZETTE 115MM	21.60	20.15
102ACAX	102ACAX PINZETTE 115MM	31.30	29.20
103ACA	103ACA PINZETTE GEKRÜM. 115MM	21.60	20.15
11N	11N PINZETTE 120MM	14.80	13.80
1253TA	1253TA PINZETTE	137.50	128.35
12ASA	12ASA PINZETTE ANTIMAGN.GEB.	17.40	16.25
141SAP	141SAP PINZETTE 150MM	46.30	43.20
141SAPH	141SAPH WAFERPINZETTE SI-BESCH.	60.00	56.00
147A	147A SEITENSCHNEIDER UNTERSETZT 120MM	181.30	169.20
147AT	147AT HARTM.-SEITENSCHNEIDER UNTERSETZT	313.90	293.00
150SA	150SA PINZETTE 115MM	17.30	16.15
150SAD	150SAD PINZETTE 115MM	28.10	26.20
150SAMB	150SAMB PINZETTE 120MM	24.60	22.95
150SAMF	150SAMF PINZETTE 120MM	23.90	22.35
151SA	151SA PINZETTE 120MM	17.30	16.15
15AGS	15AGS PINZETTE 115MM	43.80	40.85
15AGW	15AGW SCHNEIDPINZETTE 115 MM	30.80	28.75
1SA	1SA PINZETTE 120MM	22.80	21.25
1SASL	1SASL PINZETTE 120MM	12.10	11.25
1SASLPYR	1SASLPYR PINZETTE	23.90	22.35
20AS	20AS PINZETTE 108MM	15.40	14.40
21SA	21SA PINZETTE GER. 160MM	18.30	17.05
21SASL		nicht mehr lieferbar	
23SAM125	23SAM125 PINZETTE	11.00	10.25
23SAM160	PINZETTE	10.30	9.60
249CER	249CER PINZETTE 130MM	47.50	44.35
249SA	249SA PINZETTE 130MM	32.30	30.15
24SA	24SA PINZETTE 150MM	21.00	19.60
258SA	258SA PINZETTE 120MM	33.60	31.35
25SA	25SA PINZETTE 120MM	14.00	13.05
29SA	29SA PINZETTE 150MM	24.30	22.65
29W30	29W30 ABISOLIERPINZETTE 120MM	38.80	36.20
29Y30	29Y30 ABISOLIERPINZETTE	138.80	129.55
29Y32	29Y32 ABISOLIERPINZETTE	138.80	129.55
29Y34	29Y34 ABISOLIERPINZETTE	138.80	129.55
29Y36	29Y36 ABISOLIERPINZETTE	138.80	129.55
29Y40	29Y40 ABISOLIERPINZETTE	138.80	129.55
2ASA	2ASA PINZETTE 120MM	16.30	15.20
2ASAPYR	2ASAPYR HOCHPRÄZ. PINZETTE 115MM	26.60	24.80
2ASARU	2ASARU PINZETTEN 120MM	31.80	29.65
2ASASL	2ASASL PINZETTE FLACH/RUND 120MM	9.90	9.25
2ASASLT	2ASASLT PINZETTE SCHWARZ TEFLON	25.40	23.75
2SA	2SA PINZETTE 115MM	18.50	17.25
2SASL	2SASL PINZETTE 115MM	11.10	10.35
30SA	30SA UMKEHRPINZETTE 150MM	25.30	23.60
31SA	x 31SA UMKEHRPINZETTE	13.10	12.20
32BSA	32BSA PINZETTE Ø 5MM 115MM	20.00	18.65
32BSA2	PINZETTE OHNE GRAVUR Ø2.0MM	23.30	21.75
32BSA20	PINZETTE Ø2.0MM 115MM	20.00	18.65

Verkaufsbedingungen: Preise in sFr. exkl. MWST. unverb. ab Steffisburg.

Zahlungskonditionen: 10 Tage 2%; 30 Tage netto; Preisänderungen vorbehalten.



**SYSTEMS AG**

Hagröslweg 12F Tel 033 / 437 02 51  
3612 Steffisburg Fax 033 / 437 19 10



• e-mail: info@vib-systems.ch • www.vib-systems.ch

# Nettopreisliste EREM Werkzeuge

# PINZETTEN

Typ	Bezeichnung	sFr. pro Stk.	
		1-4	5-9
32BSA25	32BSA2.5 PINZETTE D 2,5MM 115MM	20.00	18.65
39SA	39SA PINZETTE 120MM	28.10	26.20
3CBS	3CBS PINZETTE 110MM	18.80	17.55
3CBSSL		nicht mehr lieferbar	
3CS	3CS PINZETTE GER. 110MM	31.00	28.95
3CSA	3CSA PINZETTE ANTI-ACID 110MM	24.00	22.40
3CSASL	3CSASL PINZETTE GER. 110MM	10.00	9.35
3CTA	3CTA PINZETTE GER. 110MM	36.50	34.05
3SA	3SA PINZETTE GER.120MM	24.00	22.40
3SASL	3SASL PINZETTE GER. 120MM	11.60	10.80
3WISA	3WISA FEINE PINZETTE	29.50	27.55
40SA	40SA PINZETTE D 0,4MM 120MM	27.60	25.75
44B		nicht mehr lieferbar	
4SA	4SA PINZETTE 110MM	23.90	22.35
4SASL	4SASL PINZETTE 110MM	9.90	9.25
51SA	51SA PINZETTE FEIN 115MM	29.80	27.80
51SASL	51SASL PINZETTE 115MM	14.50	13.55
52ASA	52ASA PINZETTE 120MM	21.60	20.15
53CSA	53CSA PINZETTE FEIN 110MM	22.80	21.25
5ASA	5ASA PINZETTE 115MM	26.50	24.75
5ASASL	5ASASL PINZETTE 115MM	13.10	12.20
5BSA	5BSA PINZETTE 115MM, 30°	28.90	27.00
5BSAF	5BSAF PINZETTE	37.50	35.00
5CSA	5CSA PINZETTE GEB. 115MM	30.60	28.55
5FSA	5FSA PINZETTE FUER BIOLOGIE	34.80	32.45
5MBS	5MBS PINZETTEN FUER BIOLOGIE	51.30	47.85
5SA	5SA PINZETTE SEHR FEIN 115MM	26.30	24.55
5SASL	5SASL PINZETTE 115MM	12.10	11.25
600ASA	600ASA WAFERPINZETTE 130MM	20.50	19.15
600JSA	600JSA WAFERPINZETTE 130MM	30.50	28.45
600W2	600 W 2 SCHRAUBE F.SERIE 600	2.10	1.95
608ASA	608ASA WAFERPINZETTE 130MM	42.50	39.65
64SA	64SA PINZETTE GER.120MM	24.60	22.95
64SAB	64SAB PINZETTE	21.80	20.35
65ASA	65ASA PINZETTE GER. 140MM	27.60	25.75
7SA	7SA PINZETTE ABGERUND. 120MM	28.00	26.15
7SASL	7SASL PINZETTE ABGERUND. 120MM	13.30	12.40
91SA	91SA WAFER PINZETTE 125MM	22.50	21.00
91SAPYR	91SAPYR WAFERPINZETTE PYROPLAST	36.00	33.60
940AS	940AS PINZETTE MICROELECTR.	38.80	36.20
940ASWM	940ASWM PINZETTE OHNE BESCHRIFTUNG	36.60	34.15
AAS	AAS PINZETTE 125MM	12.30	11.45
AASA	AASA PINZETTE 125MM	13.00	12.15
AASASL	AASASL PINZETTE 125MM	10.00	9.35
AASL	AASL PINZETTE 125MM	8.40	7.85
AAZ	AA PINZETTE 120MM	9.00	8.40
ACSA	ACSA PINZETTE 108MM	14.00	13.05
ACSASL	x ACSASL PINZETTE	10.60	9.85
AM	AM PINZETTE MESSING 125MM	17.80	16.60
E15AGW	E15AGW PINZETTE ERGONOMISCH	46.30	43.20
E2ASA	E2ASA PINZETTE ERGONOMISCH	30.90	28.85
E3CSA	E3CSA PINZETTE ERGONOMISCH	36.80	34.35
E5CSA	E5CSA PINZETTE ERGONOMISCH	36.10	33.65
E5SA	E5SA PINZETTE ERGONOMISCH	37.50	35.00
E7SA	E7SA PINZETTE ERGONOMISCH	38.80	36.20
EB44		nicht mehr lieferbar	

Verkaufsbedingungen: Preise in sFr. exkl. MWST. unverb. ab Steffisburg.

Zahlungskonditionen: 10 Tage 2%; 30 Tage netto; Preisänderungen vorbehalten.



**SYSTEMS AG**

Hagröslweg 12F Tel 033 / 437 02 51  
3612 Steffisburg Fax 033 / 437 19 10



• e-mail: info@vib-systems.ch • www.vib-systems.ch

Seite 2 / 6 26.01.2012

Typ	Bezeichnung	sFr. pro Stk.	
		1-4	5-9
EODSA	EODSA PINZETTE ERGONOMISCH	37.50	35.00
EOOSA	EOOSA PINZETTE ERGONOMISCH	37.50	35.00
M4AS	M4AS MICROPINZETTE	25.80	24.05
M5S	M5S MICROPINZETTE	22.80	21.25
M5WIS	M5WIS MIKROPINZETTE	24.40	22.80
RRS	RRS PINZETTE 140MM	15.10	14.05
SSSA	SSSA PINZETTE 140MM	15.10	14.05

Verkaufsbedingungen: Preise in sFr. exkl. MWST. unverb. ab Steffisburg.  
 Zahlungskonditionen: 10 Tage 2%; 30 Tage netto; Preisänderungen vorbehalten.



**SYSTEMS AG**

Hagröslweg 12F Tel 033 / 437 02 51  
 3612 Steffisburg Fax 033 / 437 19 10



• e-mail: [info@vib-systems.ch](mailto:info@vib-systems.ch) • [www.vib-systems.ch](http://www.vib-systems.ch)

Typ	Bezeichnung	sFr. pro Stk.	
		1-4	5-9
1500BSF	1500BSF PNEUMATIKSCHNEIDER	293.80	274.20
1503E	1503E PNEUMATIKSCHNEIDER	197.60	184.40
1512N	1512N PNEUMATIKSCHNEIDER	113.80	106.20
1522N	1522N PNEUMATIKSCHNEIDER	113.80	106.20
1522NA	1522NA PNEUMATIKSCHNEIDER	113.80	106.20
1522NB	1522NB PNEUMATIKSCHNEIDER	113.80	106.20
1522NPC	1522NPC PNEUMATIKSCHNEIDER	115.00	107.35
2211PR	2211PR NADEL-HALBRUNDZANGE ERGO.	75.00	70.00
2232ER		nicht mehr lieferbar	
2403E	2403E SPITZSCHNEIDER 30°	81.30	75.85
2404E	2404E SPITZSCHNEIDER 30°	83.80	78.20
2411P	2411P NADELHALBRUNDZANGE 146 MM	62.50	58.35
2411PD	2411PD NADELHALBRUNDZANGE GERIFFELT	71.30	66.55
2412E	2412E SEITENSCHNEIDER 130 MM	62.50	58.35
2412EW	2412EW SEITENSCHNEIDER	87.50	81.65
2422E	2422E SEITENSCHNEIDER 130 MM	62.50	58.35
2432E	2432E SEITENSCHNEIDER 130 MM	62.50	58.35
2432EW	2432EW SEITENSCHNEIDER + W	86.30	80.55
2442P	2442P FLACHZANGE 146 MM	62.50	58.35
2443P	2443P RUNDZANGE 146 MM	66.30	61.85
2470E	2470E SPITZSCHNEIDER 140 MM	76.30	71.20
2475E	2475E SPITZSCHNEIDER 45°	76.30	71.20
2476TX	2476TX SEITENSCHNEIDER	215.10	200.75
2476TX1	2476TX1 SEITENSCHNEIDER	188.80	176.20
2476TX2	2476TX2 SEITENSCHNEIDER	188.80	176.20
2477E	2477E SEITENSCHNEIDER 127 MM	68.80	64.20
2482E	2482E SPITZSCHNEIDER 45°	72.50	67.65
500103A	500103A TRANSISTORBIEGEZANGE	173.80	162.20
500104A	500104A TRANSISTORBIEGEZANGE 120MM	185.10	172.75
500210E	500210E VERFORMZANGE	283.80	264.85
503E	503E SPITZSCHNEIDER BREIT	78.80	73.55
503ET	503ET SPITZSCHNEIDER	153.80	143.55
503ETF	503ETF HARTMETALLSCHNEIDER O.WATE	165.10	154.05
503ETST	503ETST HARTMETALLSCHNEIDER	265.10	247.40
504AE	504AE VORSCHNEIDEZ.ABGER.SPITZ	83.80	78.20
505BG	505BG IC-ZANGE 28 PINS	95.00	88.65
505BGC	505BGC IC-ZANGE 28 PINS	97.50	91.00
505BI	505BI IC-ZANGE 32 PINS	116.30	108.55
505C	505C IC-ZANGE 14-16 PINS	87.50	81.65
505E		nicht mehr lieferbar	
50788	50788 FORMZANGE	137.50	128.35
50789Z	50789 FORMZANGE	137.50	128.35
510AE	510AE ABISOLIERZANGE F.W. 0,25-1,2MM	92.50	86.35
510E		nicht mehr lieferbar	
512E	512E SEITENSCHNEIDER MITTEL SW BRÜN.	62.50	58.35
512N	512N SEITENSCHNEIDER MITTEL 115MM	51.30	47.85
512NW	512NW SEITENSCHNEIDER	75.00	70.00
522E	522E SEITENSCHNEIDER MITTEL	68.80	64.20
522N	522N SEITENSCHNEIDER	51.30	47.85
522NW	522NW SEITENSCHNEIDER	82.50	77.00
523E	523E VORSCHNEIDER	83.80	78.20
530E06	530E LEITERPL.SCHNEIDER F=0,6MM	111.30	103.85
530E08	530E LEITERPL.SCHNEIDER F=0,8MM	111.30	103.85
530E10	530E10 LEITERPL.SCHNEIDER F=1,0MM	111.30	103.85
530E12	530E12 LEITERPL.SCHNEIDER F=1,2MM	111.30	103.85
530E13	530E13 LEITERPL.SCHNEIDER F=1,3MM	111.30	103.85

Verkaufsbedingungen: Preise in sFr. exkl. MWST. unverb. ab Steffisburg.

Zahlungskonditionen: 10 Tage 2%; 30 Tage netto; Preisänderungen vorbehalten.

Typ	Bezeichnung	sFr. pro Stk.	
		1-4	5-9
530E15	530E15 LEITERPL.SCHNEIDER 120MM	111.30	103.85
530E15A	530E15A LEITERPL.DISTANZSCHNEIDER 120MM	122.50	114.35
530E18	530E18 LEITERPL.SCHNEIDER F=1,8MM	111.30	103.85
530E20	530E20 LEITERPLATTENSCHNEIDER (2,0MM)	111.30	103.85
530S		nicht mehr lieferbar	
531E	531 FORMZANGE FLACH KUNST.	90.00	84.00
532N	532N SEITENSCHNEIDER	51.30	47.85
542E	542 FORMZANGE FLACH	63.80	59.55
543E	543 FORMZANGE RD	63.80	59.55
544D	544D NADELZANGE PRÄZ. GERIF.	66.30	61.85
544E	544 NADELZANGE PRÄZ.	63.80	59.55
546E	546 HALBRUNDZANGE GEB.	85.00	79.35
547	547 NADELZANGE FEIN	68.80	64.20
549E	549E LEITERPL.DISTANZSCHNEIDER 115MM	118.80	110.85
549E10	549E10 LEITERPLATTENSCHNEIDER F=1MM	118.80	110.85
549E12	549E12 LEITERPLATTENSCHNEIDER F=1,2MM	118.80	110.85
552E	552E ABISOLIERZANGE	152.60	142.40
552S	552S ABISOLIERZANGE	152.60	142.40
554A	554A FORMZANGE WIDERST.4,0MM	73.80	68.85
554E	554 FORMZANGE WIDERST. 4,0MM	95.00	88.65
554TX	554TX FORMZANGE	137.50	128.35
555E	555E SPITZSCHNEIDER	82.50	77.00
570E	570E SPITZSCHNEIDER KLEIN	75.00	70.00
572E	572E SPITZSCHNEIDER	73.80	68.85
573E	573E SPITZSCHNEIDER VERTIK.SCHN.	73.80	68.85
573EB	573EB LEITERPL.DISTANZSCHNEIDER 115MM	102.50	95.65
575E	575E SPITZSCHNEIDER 45° 110MM	73.80	68.85
576TX	576TX HARTMETALL-SEITENSCHNEIDER	192.60	179.75
576TX1	576TX1 HARTMET.-SEITENSCHN.ABGER.SPITZEN	208.80	194.85
577E	577E SEITENSCHNEIDER 115mm	63.80	59.55
578E	578E SPITZSCHNEIDER	90.00	84.00
582E	582E SPITZSCHNEIDER 45°	71.30	66.55
582EW	582EW SPITZSCHNEIDER DRAHTHALT.	83.80	78.20
592E	592E SEITENSCHNEIDER 115MM	68.80	64.20
593AE	593AE SCHNEIDEZANGE	81.30	75.85
595E	595E SEITENSCHNEIDER 115MM	63.80	59.55
595T	595T SEITENSCHNEIDER	142.50	133.00
595TF	595TF HARTMET.SEIT.SCHNEIDER O.WATE	145.00	135.35
599E	599E SEITENSCHNEIDER O. WATE	66.30	61.85
599FO	599FO SEITENSCHNEIDER KEVLAR	180.10	168.05
599T	599T HARTMET.SEITENSCHNEIDER PARAL.	146.30	136.55
599TF	599TF SEITENSCHNEIDER O. WATE	156.30	145.85
599TFO	599TFO HARTMETALL-SEITENSCHNEIDER	223.80	208.85
612N	612N SEITENSCHNEIDER	51.30	47.85
612NW	612NW SEITENSCHNEIDER	63.80	59.55
622N	622N SEITENSCHNEIDER	51.30	47.85
622NA	622NA ZANGE	51.30	47.85
622NB	622NB SEITENSCHNEIDER	51.30	47.85
622TX	622TX SEITENSCHNEIDER	185.10	172.75
632N	632N SEITENSCHNEIDER	51.30	47.85
632NC	632NC SEITENSCHNEIDER	90.00	84.00
632NCF	632NCF SEITENSCHNEIDER	90.00	84.00
670E	670E SPITZSCHNEIDER	71.30	66.55
670EP	670EP SPITZSCHNEIDER	83.80	78.20
670EPF	670EPF SPITZSCHNEIDER	97.50	91.00
676E	676E SEITENSCHNEIDER MINI	61.30	57.20

Verkaufsbedingungen: Preise in sFr. exkl. MWST. unverb. ab Steffisburg.

Zahlungskonditionen: 10 Tage 2%; 30 Tage netto; Preisänderungen vorbehalten.



**SYSTEMS AG**

Hagrösliweg 12F Tel 033 / 437 02 51  
3612 Steffisburg Fax 033 / 437 19 10



• e-mail: info@vib-systems.ch • www.vib-systems.ch

Seite 5 / 6 26.01.2012

# Nettopreisliste EREM Werkzeuge

# ZANGEN

Typ	Bezeichnung	sFr. pro Stk.	
		1-4	5-9
676EW	676EW SEITENSCHNEIDER MICRO	78.80	73.55
723E	x 723E SPITZSCHNEIDER	98.80	92.20
776E	776E SEITENSCHNEIDER O. WATE	61.30	57.20
792E	792E SEITENSCHNEIDER	75.00	70.00
80013C	80013C ZANGE	225.10	210.05
808G	808G ZANGE	131.30	122.55
809IC	809 IC FORMZANGE 90°	328.90	307.00
812N	812N SEITENSCHNEIDER MAXI	63.80	59.55
822N	822N SEITENSCHNEIDER MAXI	63.80	59.55
884E	884E SEITENSCHNEIDER MAXI	83.80	78.20
884EPCM	884EPCM LEITERPLATTENSCHNEIDER	105.00	98.00
886E	886E SEITENSCHNEIDER MAXI	77.50	72.35
896E	896E SEITENSCHNEIDER MAXI	77.50	72.35
EROP155	SEITENSCHNEIDER 110MM	31.80	29.65
EROP170	FLACHZANGE 120MM	27.40	25.60
EROP171	FLACHZANGE 120MM	27.40	25.60
EROP172	RUNDZANGE 125MM	27.40	25.60
EROP174	KETTENZANGE 120MM	27.40	25.60
EROP277	SCHNABELSPITZZANGE 140MM	27.80	25.95
EROP280	LANGSCHNABELZANGE 170MM	37.50	35.00
EROP330	SCHRÄGSCHNEIDER 130MM	43.80	40.85
EROP331	SCHRÄGSCHNEIDER 120MM	43.80	40.85
EROP355	SEITENSCHNEIDER 110MM	34.40	32.15
EROP357	SEITENSCHNEIDER 110MM	34.40	32.15
EROP419	SEITENSCHNEIDER 130MM	37.10	34.60

# Nettopreisliste EREM Werkzeuge

# ZUBEHÖR

Typ	Bezeichnung	sFr. pro Stk.	
		1-4	5-9
2040Z	2040 DÜSE (0,15)	33.60	31.35
2041Z	2041 DÜSE(1,4)	50.00	46.65
2044Z	2044 DÜSE (0,9)	50.00	46.65
2052E	2052 SAUGNAPF (4,5)	11.90	11.15
2400KMS	EREM 2400 MAGICSENSE-WERKZEUGSATZ	276.30	257.85
2450K	EREM WERKZEUGSATZ (2412E, 510AE, 2411P)	208.80	194.85
260C	260C MICRO-DISP.SPITZEN GRÜN (10)	14.10	13.15
29A5	29A5 SAUGVORSATZ	21.00	19.60
3000ESD	3000ESD GEHÄUSE ANSAUGGERÄT	131.30	122.55
3000KCESD	3000KCESD SMD KIT	630.20	588.20
3000WESD	x 3000WESD GEHÄUSE ANSAUGGERÄT	137.50	128.35
3008ESD	3008ESD SCHLAUCH	8.50	7.95
3200	3200 DREHKOPF	93.20	87.00
3231	3231 ADAPTER	9.00	8.40
3232	3232 ADAPTER	17.60	16.40
3300TPS	EREM PINZETTEN WERKZEUGSATZ	103.80	96.85
3303	3303 SAUGDÜSE GEBOGEN 45° (D 0,3)	11.30	10.55
3305Z	3305 ANSATZ (D 0,5)	6.40	6.00
3310Z	3310 ANSATZ (D 1,0)	7.40	6.95
3330	x 3330 SAUGVORSATZ 45°	15.70	14.65
3400TSM DU	EREM SMD PINZETTEN UNIVERSALWERKZEUGSATZ	115.00	107.35
3500TP	EREM PINZETTEN PREMIUM-WERKZEUGSATZ	135.00	126.00
3600KU	EREM UNIVERSALWERKZEUGSATZ	325.10	303.40
3740	3740 TISCHABLAGE	103.80	96.85
3900KC	3900KC KIT SMD ANTISTAT.	250.10	233.40
XB141SAP12	141SAP1+2 GREIFERSPITZ. F. 141SAP (PAAR)	26.60	24.80
XB29W301	29W 30 1 KLINGE	0.90	0.85

Verkaufsbedingungen: Preise in sFr. exkl. MWST. unverp. ab Steffisburg.

Zahlungskonditionen: 10 Tage 2%; 30 Tage netto; Preisänderungen vorbehalten.

# Tweezers



## Tweezers for high precision

Tweezers for use in areas like electronics, medical laboratories and other applications where high precision is required

- Pointed tips
- Flat round tips
- SMD tweezers
- Wafer tweezers
- Cutting tweezers
- Stripping tweezers
- Precision tweezers with ergonomic handle



# Tweezers

## Pointed Tips Straight

### Pointed Tips Straight

Model/Order No.	Description
 M55	Precision micro tweezers, stainless steel, very small and fine tips, 80 mm, 6 g
 ACSA	Precision tweezers, special stainless steel, unmagnetic, with serrated grips, 108 mm, 16 g
 20AS	Precision micro tweezers, stainless steel, with serrated grips and inside serrated tips, guide pin to avoid tip overlapping, 108 mm, 12 g
 3CS	Precision tweezers, stainless steel, with long tips, 110 mm, 11 g
 3CSA	Precision tweezers, special stainless steel, unmagnetic, with shorter tips than 3CS, 110 mm, 11 g
3CSASL	same as 3CSA, but economy model
 3CTA	Precision tweezers, Titanium, unmagnetic, same as 3CSA but Titanium for heat resistance and light weight, 110 mm, 8 g
 53CSA	Precision tweezers for handling of delicate flexible parts, special stainless steel, unmagnetic, 110 mm, 11 g
 3SA	Precision tweezers, special stainless steel, unmagnetic, fine tips, 120 mm, 14 g
3SASL	same as 3SA, but economy model
 1SA	Precision tweezers, special stainless steel, unmagnetic, thicker tips than 3SA, 120 mm, 14 g
1SASL	same as 1SA, but economy model

Option: +PYR = Pyroplast coating on request (Euro 9,95), ex.: 2ASAPYR

Note: the Pyroplast coating is not available for all Erem tweezers.

It is made to order and needs a minimum order quantity. Please ask for further information.

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„A“ in the order-no signifies: No. 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

• VIB-Systems AG • Hagrosliweg 2F • CH-3642 Steffisburg • Tel 033 437 02 51 • Fax 033 437 19 10

• www.vib-systems.ch • e-mail: contact@vib-systems.ch

# Tweezers

## Pointed Tips Straight

### Pointed Tips Straight (continued)



Model/Order No.	Description
<b>OOSA</b>	Precision tweezers, special stainless steel, unmagnetic, flat inside tips, very resistant, 120 mm, 14 g

<b>OOSASL</b>	same as OOSA, but economy model
---------------	---------------------------------



<b>OOCA</b>	Precision tweezers, special stainless steel, unmagnetic, same as OOSA but shorter, 120 mm, 18 g
-------------	---



<b>OOBSA</b>	Precision tweezers with serrated grips, special stainless steel, unmagnetic, with serrated tips, 120 mm, 20 g
--------------	---



<b>OODSA</b>	Precision tweezers with serrated grips and inside serrated tips, special stainless steel, unmagnetic, 120 mm, 20 g
--------------	--



<b>64SA</b>	Precision tweezers with serrated grips, special stainless steel, unmagnetic, 120 mm, 17 g
-------------	---



<b>11N</b>	Precision tweezers, Nickel-Silver alloy, unmagnetic, 120 mm, 17 g
------------	---



<b>AAZ</b>	Precision tweezers, Nickel plated, 120 mm, 16 g
------------	---



<b>AAS</b>	Precision tweezers, stainless steel, with short but fine tips, 125 mm, 16 g
------------	---



<b>AASA</b>	Precision tweezers, special stainless steel, unmagnetic, 125 mm, 16 g
-------------	---

<b>AASASL</b>	same as AASA, but economy version
---------------	-----------------------------------

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„SA“ in the order-no signifies: Non magnetique, rust resistant, anti acid alloy, temp. resistant up to 300°C

# Tweezers

## Pointed Tips Straight / Straight Relieved

### Pointed Tips Straight (continued)



Model/Order No.	Description
AM	Precision tweezers Brass, soft metal protects sensitive parts against damage, no sparks, 125 mm, 17 g
249SA	Precision tweezers with synthetic (PPS) tips, special stainless steel, unmagnetic, heat resistant up to 250°C, serrated grips, 130 mm, 20 g
249CER	Precision tweezers with Ceramic tips, special stainless steel, unmagnetic, heat resistant up to 900°C, 130 mm, 24 g
RRS	Precision tweezers, stainless steel, large, very strong, long version, 140 mm, 30 g
SSSA	Precision tweezers, special stainless steel, unmagnetic, very narrow and long handles, low tension, 140 mm, 11 g
29SA	Precision flat round tweezers reverse action, with fibre-grip handles, special stainless steel, non-magnetic, 150 mm, 26 g
21SA	Precision tweezers, with serrated grips and inside serrated tips, long version, strong, special stainless steel, unmagnetic, 160 mm, 23 g

### Pointed Tips Straight Relieved



Model/Order No.	Description
M4AS	Micro precision tweezers, stainless steel, very small, very fine tips, 90 mm, 9 g
4SA	Precision tweezers, with very fine tips, special stainless steel, unmagnetic, 110 mm, 13 g
4SASL	same as 4SA, but economy model

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„SA“ in the order-no signifies: Non magnetique, rust resistant, anti acid alloy, temp. resistant up to 300°C

# Tweezers

## Pointed Tips Straight Relieved / Pointed Tips Bent

### Pointed Tips Straight Relieved (continued)



Model/Order No.	Description
5MBS	Micro precision tweezers, with extremely fine tips (~ 0,03 x 0,07 mm) stainless steel, 115 mm, 12 g
5FSA	Micro precision tweezers, with extremely fine tips (~ 0,05 x 0,1 mm) special stainless steel, unmagnetic, 115 mm, 12 g
5SA	Precision tweezers, with very fine tips, special stainless steel, unmagnetic, 115 mm, 12 g
5SASL	same as 5SA, but economy model
2SA	Precision tweezers, with medium size tips, special stainless steel, unmagnetic, 115 mm, 16 g
2SASL	same as 2SA, but economy model
258SA	Precision tweezers with synthetic (PPS) tips, special stainless steel, unmagnetic, ESD safe, heat resistant up to 250°C, 120 mm, 15 g



### Pointed Tips Bent








Model/Order No.	Description
3CBS	Precision tweezers with fine tips, curved 40°, stainless steel, 110 mm, 15 g
5CSA	Precision tweezers with fine tips, curved 30°, special stainless steel, unmagnetic, relieved, 115 mm, 12 g
5BSA	Precision tweezers with very fine tips, curved 30°, special stainless steel, unmagnetic, relieved, 115 mm, 12 g
51SA	Precision tweezers with finer tips than 5CSA, curved 30°, special stainless steel, unmagnetic, relieved, 115 mm, 12 g

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant



# Tweezers

## Pointed Tips Bent / Flat Round Tips Straight

### Pointed Tips Bent (continued)

Model/Order No.	Description
51SASL	same as 51SA, but economy model
 5ASA	Precision tweezers with fine tips, oblique 15°, special stainless steel, unmagnetic, 115 mm, 12 g
5ASASL	same as 5ASA, but economy model
 7SA	Precision tweezers with fine tips, curved, special stainless steel, unmagnetic, relieved, 120 mm, 15 g
7SASL	same as 7SA, but economy model
 65ASA	Precision tweezers bent 50°, fine tips, long version, special stainless steel, unmagnetic, 140 mm, 11 g
 24SA	Precision tweezers bent 40°, alignment pin, serrated grips and inside serrated tips, special stainless steel, unmagnetic, 150 mm, 22 g
 30SA	Precision tweezers bent 50°, with fibre-grip handles, reverse action, special stainless steel, unmagnetic, 150 mm, 26 g

### Flat Round Tips Straight

Model/Order No.	Description
 2ASA	Precision tweezers, special stainless steel, unmagnetic, with medium round tips for gripping, tip side 2 mm, 120 mm, 15 g
2ASASL	same as 2ASA, but economy model
 2ASASLT	same as 2ASA but Teflon coated tips for handling delicate parts

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„SA“ in the order-no signifies: Unmagnetic, rust resistant, anti acid alloy, temp. resistant up to 300°C

# Tweezers

## Flat Round Tips Straight / Precision Tweezers with Ergonomic Handles

### Flat Round Tips Straight (continued)



Model/Order No.	Description
<b>2ASARU</b>	Precision tweezers with anti-adhesive coated tips for handling adhesive parts, special stainless steel, unmagnetic, 120 mm, 16 g
<b>25SA</b>	Precision tweezers, flat round tips, as model 2ASARU serrated grips, special stainless steel, unmagnetic, 120 mm, 15 g
<b>52ASA</b>	Precision tweezers, crush-proof design, for handling delicate flexible parts, special stainless steel, unmagnetic, 120 mm, 15 g

### Precision Tweezers with Ergonomic Handles



Model/Order No.	Description
<b>E5SA</b>	Precision tweezers with very fine tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 25 g
<b>E3CSA</b>	Precision tweezers with long fine tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 25 g
<b>E0OSA</b>	Precision tweezers with straight and sturdy tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 30 g
<b>E0ODSA</b>	Same as E0OSA, but serrated tips
<b>E7SA</b>	Precision tweezers curved, special stainless steel, unmagnetic, ESD safe, 120 mm, 28 g
<b>E2ASA</b>	Precision tweezers flat round tips, special stainless steel, unmagnetic, ESD safe, 120 mm, 28 g
<b>E15AGW</b>	Cutting tweezers, carbon steel tips, ESD safe, 120 mm, 30 g


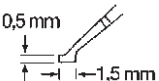


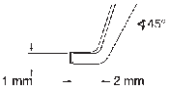




„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„SA“ in the order-no signifies: Unmagnetic, rust resistant, anti acid alloy, temp. resistant up to 300°C

# Tweezers

## SMD Tweezers

### SMD Tweezers

Model/Order No.	Description
  <b>102ACA</b>	SMD tweezers, angled head 45°, special stainless steel, unmagnetic, 115 mm, 15 g
 <b>102ACAX</b>	SMD tweezers, angled head 45°, reverse action, special stainless steel, unmagnetic, 115 mm, 14 g
  <b>103ACA</b>	SMD tweezers, angled head 45°, special stainless steel, unmagnetic, 115 mm, 15 g
 <b>39SA</b>	SMD tweezers curved head Ø 0,3 mm, serrated grips, special stainless steel, unmagnetic, 110 mm, 15 g
 <b>40SA</b>	SMD tweezers curved head Ø 0,4 mm, serrated grips, special stainless steel, unmagnetic, 110 mm, 15 g
 <b>150SAMF</b>	SMD tweezers curved head Ø 1,2–2,5 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g
 <b>150SAD</b>	SMD tweezers curved head Ø 1,5–3 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„SA“ in the order-no signifies: Unmagnetic, rust resistant, anti acid alloy, temp. resistant up to 300°C

# Tweezers

## SMD Tweezers

### SMD Tweezers



Model/Order No.	Description
<b>150SA</b>	SMD tweezers curved head Ø 1,5–3 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g
<b>151SA</b>	SMD tweezers curved head Ø 3–6 mm, serrated grips, special stainless steel, unmagnetic, 120 mm, 13 g
<b>32BSA</b>	SMD tweezers bent 45°, curved head Ø 5 mm, special stainless steel, unmagnetic, 115 mm, 17 g
<b>32BSA20</b>	SMD tweezers bent 45°, curved head Ø 2 mm, special stainless steel, unmagnetic, 115 mm, 17 g
<b>32BSA25</b>	SMD tweezers bent 45°, curved head Ø 2,5 mm, special stainless steel, unmagnetic, 115 mm, 17 g,
<b>150SAMB</b>	SMD tweezers bent 40°, curved head Ø 1,2–2,5 mm, serrated grips, special stainless steel, unmagnetic, 115 mm, 13 g

„S“ in the order-no signifies: Stainless steel, strong tips, rust resistant

„SA“ in the order-no signifies: Unmagnetic, rust resistant, anti acid alloy, temp. resistant up to 300°C

# Tweezers

## Special Gripping Tweezers / Wafer Tweezers

### Special Gripping Tweezers

Model/Order No.	Description
940AS	Gripping tweezers with locking clip, stainless steel, 120 mm, 17 g

### Wafer Tweezers

Model/Order No.	Description
91SA	Wafer tweezers 3"-4", serrated grips, special stainless steel, unmagnetic, 125 mm, 15 g
600ASA	Wafer tweezers 6", serrated grips, special stainless steel, unmagnetic, 130 mm, 23 g
608ASA	Wafer tweezers 6", serrated grips, special stainless steel, unmagnetic, 130 mm, 23 g
600JSA	Wafer tweezers with free-floating Teflon paddle, 4"-6", serrated grips, special stainless steel, unmagnetic, 130 mm, 24 g
141SAP	Wafer tweezers with Polyester tips protecting delicate parts, 4"-6", serrated grips, special stainless steel, unmagnetic, 150 mm, 30 g
141SAPH	same as 141SAP, but with Halar coating (acid-resistant) on handle, plastic tips without pigmentation

# Tweezers

Cutting Tweezers / Stripping Tweezers / Extraction Tweezers

## Cutting Tweezers



Model/Order No.	Description
<b>15AGS</b>	Cutting tweezers, carbon steel, blade 5,5 mm 115 mm, 21 g

<b>15AGW</b>	Cutting tweezers, carbon steel, blade 9,5 mm 115 mm, 26 g
--------------	--

## Stripping Tweezers



Model/Order No.	Description
<b>29Y30</b>	Stripping tweezers Ø 0,25 mm (AWG 30), stainless steel, 120 mm, 22 g
<b>29Y32</b>	Stripping tweezers Ø 0,2 mm (AWG 32), stainless steel, 120 mm, 22 g
<b>29Y34</b>	Stripping tweezers Ø 0,16 mm (AWG 34), stainless steel, 120 mm, 22 g
<b>29Y36</b>	Stripping tweezers Ø 0,13 mm (AWG 36), stainless steel, 120 mm, 22 g
<b>29Y40</b>	Stripping tweezers Ø 0,08 mm (AWG 40), stainless steel, 120 mm, 22 g

**Please provide wire sample when ordering**



<b>29W30</b>	Stripping tweezers with fibre handles 0,25 mm, reverse action AWG 30, stainless steel, 120 mm, 28 g
--------------	---

<b>XB29W301</b>	Replacement knife for 29W30
-----------------	-----------------------------

## Extraction Tweezers



Model/Order No.	Description
<b>024C</b>	Extraction tweezers, stainless steel, Ø 1,75 mm / inside, Ø 2,15 mm / outside, 120 mm, 20 g

# Cutters



## Erem will impress you

### Induction hardened blades in Rockwell hardness 63 – 65 HRC

- for exceptionally long life

### Internal patented Erem Magic Spring

- constant spring force
- more than 1 million cutting cycles guaranteed

### High Precision screw joint

- smooth cutting action
- wobble free operation with no blade overlap

### Erem Cut

- special cutting blade for achieving the desired cutting shape

### MagicSense shaped handle with Softtouch feature

- for high comfort, better grip and added safety

### EMOS maximum opening stop

- limits blade opening to 5 mm maximum
- reduces operator fatigue by preventing excessive hand spread



# Advantages, Specifications and Listings

## Technology

### Special tool steel

Machined from high grade laminated tool steel for strength and toughness

### Invisible Erem Magic Spring licensed

- return Magic Spring internally mounted
- constant opening and closing force
- 1 million operations guaranteed

### Selflocking screwing system

- machined surfaces hold together by an interlocking precision screw
- ensures wobble free operation
- eliminates blade overlap

### Blade opening limited to 5 mm

reduces operator fatigue by limiting the handle spread

## Cut – blade specificity

### Blade hardening

by induction heat treatment to 63–65 HRC Rockwell to impart strength and long life



#### 1. Semi Flush

for general cutting applications in which the shape of the cut is not important. Leaves a wedge shape on the material to be cut. For hard and soft wires, robust and long lasting.



#### 2. Flush

for soft steel and copper wires. The cutting effort is reduced and the component is subjected to less shock. A much smaller wedge shape is left on the material to be cut. Used for general purpose cutting, or where greater precision is required.



#### 3. Super Full Flush

This cut provides absolutely flush wire ends. For copper wires. Reducing pressure on sensitive components and shock absorbing.

## Service

### Resharpener

Free of charge resharpener on almost all cutters that have failed through normal wear (up to 3 times)

### Erem guarantees

perfect functioning of cutters / pliers and the quality of the steel. Each tool being made with care and precision.



ESD safe

## Series 2400 MagicSense

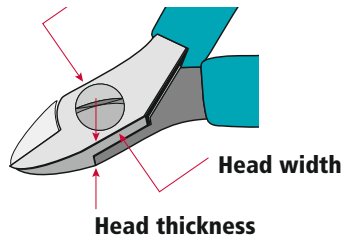
### Grips

- soft for operator and reduce fatigue
- firm for increased operator control
- non slip for better grip

### Ergonomic shape

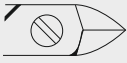






- automatically positions the operators hand to spread pressure evenly over the tool handles to reduce the incidence of trauma disorders to the fingers, hand, wrist and arm

# Erem Series



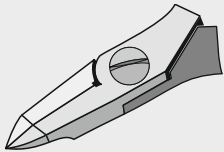
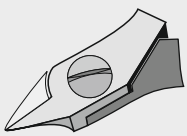
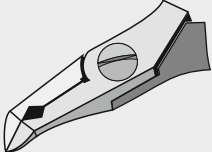
Erem offers the right head size to suit every application. There are three main sizes: Micro, Medium and Maxi.

Each head size is available in different head shapes.

Micro	Medium		Maxi
			
<b>Serie 600</b>	<b>Serie 2400 MagicSense</b>	<b>Serie 500</b>	<b>Serie 800</b>
			
<b>Size</b>			
Head width 9,0 mm	Head width 11,0 mm	Head width 11,0 mm	Head width 13,5 mm
Head thickness 6,0 mm	Head thickness 6,0 mm	Head thickness 6,5 mm	Head thickness 7,5 mm
Miniature cutter for applications in microelectronics and for fine wires. Offers a large variety of head shapes for very good access even to hard-to-reach areas.	Medium-size cutter. Combines robustness, visibility and accessibility. Large variety of head shapes for precision working in hard-to-reach areas. The Serie 2400 MagicSense offers an optimised ergonomic shape and an improved grade of hardness.		The strongest and most robust head size for general cutting applications in electronics, cuts large wire diameters.

# How to choose the right tool?

Erem offers the right head shape to suit your application. The head shapes differ in terms of shape and design. There are six basic shapes:

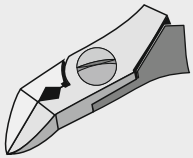
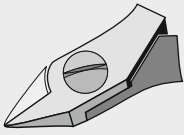
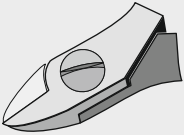
Shape	Tip Cutter Straight relieved head	Tip Cutter Pointed relieved head	Tip Cutter Angled, narrow head
<b>Visibility and accessibility</b> Cutting at the outermost tip of the cutter	 This head is suitable for horizontal and vertical cuts. The long tips facilitate cutting in hard-to-reach areas.	 This is the narrowest head shape. The underside is relieved and facilitates optimum access even to extremely hard-to-reach areas.	 The angled head provides for precise cuts at different working angles.
<b>Series 600 Micro</b>	670E*, 670EP*, 670EPF* (p. 25)	622NB, 632NCF, 676E, 776E (p. 25)	
<b>Series 2400 MagicSense</b>	2470E (p. 27)		2475E, 2482E (p. 27)
<b>Series 500 Medium</b>	570E, 573E** (p. 31)	592E, 792E (p. 31)	555E, 572E, 575E, 582E, 593AE (p. 30)
<b>Series 800 Maxi</b>		884E (p. 33)	

\* very short head

\*\* straight head for vertical working

## Wire definition

- Piano wire, stainless spring steel wire, material 1.4310, tensile strength 2000–2400 MPa
- Hard wire, stainless steel wire, material 1.4301, tensile strength 1800 MPa
- Medium-hard wire, stainless steel wire, material 1.4301, tensile strength 800 MPa
- Soft wire, copper, aluminium, tensile strength 250 MPa

Tip Cutter Angled wide head	Side Cutter Tapered head	Side Cutter Oval head
		
<p>The angled head provides for precise cuts at different working angles.</p>	<p>One side of the cutter is tapered, enabling the user to work even in hard-to-reach areas without reducing the cutting capacity.</p>	<p>This is the standard head shape. It is used for all cutting jobs in easy-to-reach areas. The solid head provides for a high cutting capacity and is characterised by its robustness.</p>
	622NA (p. 24)	612N, 622N, 632N (p. 24)
2403E, 2404E (p. 27)	2477E (p. 26)	2412E, 2422E, 2432E (p. 26)
503E, 504AE (p. 29)	577E, 595E (p. 29)	512E, 512N, 522N, 532N, 599E (p. 28)
	886E (p. 33)	812N, 822N, 896E (p. 32)

**High cutting capacity**

Cutting over the full length of the cutter




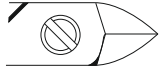
**Erem offers carbide cutters for (see P. 34/35) for cutting high-hardness wire (piano wire).**

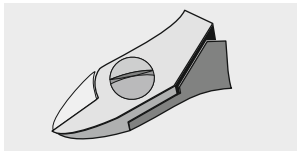
# Cutters

## Side- and Tip Cutters

### Series 600 Micro – high grade tool steel, ESD safe, resharpenable

Miniature cutters for extremely fine electronics offering improved access into confined areas.

	Micro	Medium	Maxi	
				
	<b>Series 600</b>	<b>New</b> <b>Series 2400</b> <b>MagicSense</b>	<b>Series 500</b>	<b>Series 800</b>
Width a	9,0 mm	11,0 mm	11,0 mm	13,5 mm
Thickness b	6,0 mm	6,0 mm	6,5 mm	7,5 mm



### Side Cutters – oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.



#### Model/Order No.

#### Description

**612N**

Side cutter semi flush cut, small head for very good access, medium hard wire 0,8 mm, hard wire 0,5 mm, Cu 1,3 mm, 110 mm, 48 g



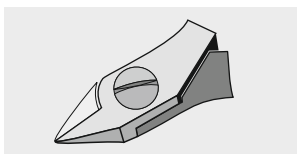
**622N**

Side cutter flush cut, small head for very good access, medium hard wire 0,8 mm, Cu 1,3 mm, 110 mm, 48 g



**632N**

Side cutter super full flush cut, small head for very good access, medium hard wire 0,7 mm, Cu 1,3 mm, 110 mm, 48 g



### Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



#### Model/Order No.

#### Description

**622NA**

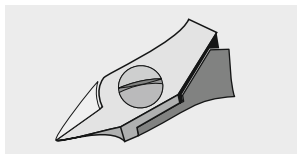
Side cutter flush cut, medium hard wire 0,7 mm, Cu 1,0 mm, 110 mm, 48 g

Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.

Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW

# Cutters

## Side- and Tip Cutters



### Tip Cutters – tapered and relieved head

Fine cutter head. One side is cut away for access even in confined areas.



#### Model/Order No.

#### Description

**622NB**

Side cutter flush cut, super fine relieved head, allows very good access, medium hard wire 0,6 mm, Cu 0,8 mm, 110 mm, 48 g



**676E**

Side cutter flush cut, same as 622NB, short cutting head and more robust medium hard wire 0,6 mm, Cu 0,8 mm, 110 mm, 48 g



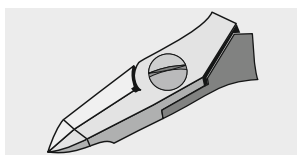
**776E**

Side cutter super full flush cut, miniature side cutter, super fine relieved head, allows very good access, medium hard wire 0,6 mm, Cu 0,8 mm, 110 mm, 48 g



**632NCF**

Side cutter super full flush cut, only for soft materials 110 mm, 48 g



### Tip Cutters – straight tapered and relieved head

Fine cutter head allows access even in confined areas.



#### Model/Order No.

#### Description

**670E**

Tip cutter, flush cut, vertical, short head, medium hard wire 0,5 mm, Cu 0,8 mm, 110 mm, 48 g



**670EP**

Tip cutter, flush cut, vertical, very precise, short head, for PCBs and micro packages up to 0,25 mm, medium hard wire 0,4 mm, Cu 0,6 mm, 110 mm, 48 g



**670EPF**

Same as 670EP, but finer version for micro pitches under 0,5 mm, short head, 110 mm, 48 g


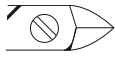


# Cutters

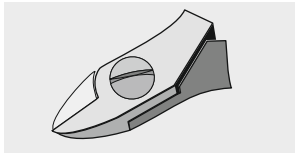
## Side- and Tip Cutters

**NEW**

### Series 2400 MagicSense – high grade tool steel, ESD safe, resharpenable

Medium size. Combines robustness, view and accessibility. The series 2400 MagicSense offers optimal ergonomic shape and very high hardness grade.

	Micro	Medium	Maxi
			
	<b>Series 600</b> <b>New</b>	<b>Series 2400 MagicSense</b>	<b>Series 500</b>
Width a	9,0 mm	11,0 mm	13,5 mm
Thickness b	6,0 mm	6,0 mm	7,5 mm



### Side Cutters – oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.



#### Model/Order No.

**2412E**

#### Description

Semi flush cut, robust cutting head for general cutting applications, high cutting capability, medium hard wire 1,0 mm, hard wire 0,5 mm, Cu 1,6 mm, 130 mm



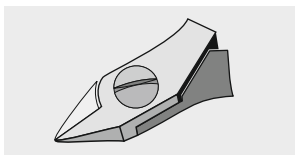
**2422E**

Flush cut, robust head for general cutting applications, high cutting capability, for soft wire, medium hard wire 1,0 mm, Cu 1,6 mm, 130 mm



**2432E**

Super full flush cut, razor blades cut medium hard wire 0,8 mm, Cu 1,6 mm, 130 mm



### Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



#### Model/Order No.

**2477E**

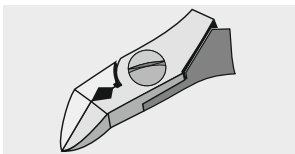
#### Description

Flush cut, tapered head, for cutting application in dense working areas, medium hard wire 1,0 mm, Cu 1,3 mm, 127 mm

Wire definitions see p. 22

# Cutters

## Side- and Tip Cutters

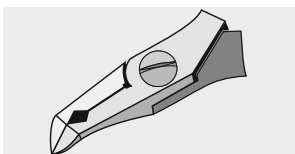


### Tip Cutters – angled, wide head

Angled head for precision, reach and operator visibility.



Model/Order No.	Description
2403E	Flush cut, blunt and robust cutting head, very precise cut, tip cutter for general cutting applications, angled 30° medium hard wire 1,0 mm, Cu 1,6 mm, 130 mm
2404E	Flush cut, same as 2403E, but with fine and rounded head, angled 30° medium hard wire 0,8 mm, Cu 1,3 mm, 130 mm

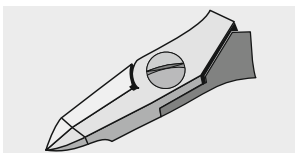


### Tip Cutters – angled, narrow head

Angled head for precision, reach and operator visibility.



Model/Order No.	Description
2482E	Flush cut, medium size, especially for cutting on circuit boards and DIL, for 90° and 180° operation cuts, angled 45° medium hard wire 0,6 mm, Cu 1,2 mm, 135 mm
2475E	Flush cut, for fine work at hybrid or micro component, allows very good access, angled 45° medium hard wire 0,4 mm, Cu 0,6 mm, 135 mm



### Tip Cutters – straight, tapered and relieved head

Long, fine straight, tapered head for good access to narrow places.



Model/Order No.	Description
2470E	Flush cut, angled head, for horizontal cutting and good access to narrow places, tip cutter for cutting at the extreme tip, medium hard wire 0,4 mm, Cu 0,6 mm, 140 mm

Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.

Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW

Info: Pliers of series 2400 MagicSense see chapter pliers.


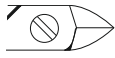


Wire definitions see p. 22

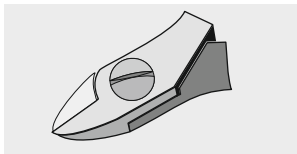
# Cutters

## Side- and Tip Cutters

### Series 500 Medium – high grade tool steel, ESD safe, resharpenable

Medium size. Combines robustness, view and accessibility. Big variety of cutting heads for precise cutting in dense working areas.

	Micro		Medium	Maxi
				
	<b>Series 600</b>	<b>New</b> <b>Series 2400</b> <b>MagicSense</b>	<b>Series 500</b>	<b>Series 800</b>
Width a	9,0 mm	11,0 mm	11,0 mm	13,5 mm
Thickness b	6,0 mm	6,0 mm	6,5 mm	7,5 mm



### Side Cutters – oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.



#### Model/Order No.

**512N**

#### Description

Side cutter semi flush cut, economical line, robust, for general cutting applications and precise working, high cutting capability, medium hard wire 1,0 mm, hard wire 0,5 mm, Cu 1,6 mm, 115 mm, 67 g



**512E**

Side cutter semi flush cut, same as 512N but burnished head, medium hard wire 1,0 mm, hard wire 0,5 mm, Cu 1,6 mm, 115 mm, 67 g



**522N**

Side cutter flush cut, economical line, robust, for general cutting applications and precise working, high cutting capability, medium hard wire 1,0 mm, Cu 1,6 mm, 115 mm, 67 g



**599E**

Side cutter flush cut, with short and robust head, medium hard wire 1,0 mm, Cu 1,6 mm, 115 mm, 67 g

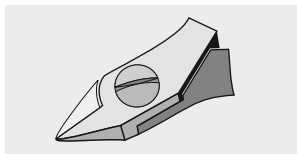


**532N**

Side cutter super full flush cut, for precise cutting, with very sharp cut, medium hard wire 0,8 mm, Cu 1,6 mm, 115 mm, 67 g

# Cutters

## Side- and Tip Cutters



### Side Cutters – tapered head

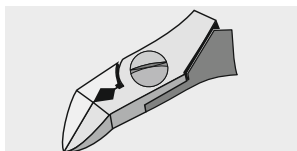
The small tapered cutter allows cutting in dense working areas.



Model/Order No.	Description
595E	Side cutter flush cut, small tapered head for cutting in dense working areas, medium hard wire 1,0 mm, Cu 1,3 mm, 115 mm, 67 g



577E	Side cutter flush cut, small short tapered head for cutting in dense working areas, medium hard wire 1,0 mm, Cu 1,3 mm, 115 mm, 67 g
------	--



### Tip Cutters – angled, wide head

Angled head for precision, reach and operator visibility.



Model/Order No.	Description
503E	Tip cutter flush cut 30°, wide and robust cutting head but precise cut, for general cutting applications, medium hard wire 1,0 mm, Cu 1,6 mm, 110 mm, 67 g

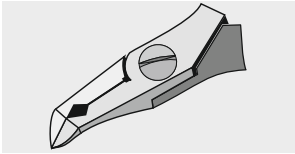


504AE	Tip cutter flush cut 30°, same as 503E but with fine rounded head, medium hard wire 0,8 mm, Cu 1,3 mm, 110 mm, 67 g
-------	---

Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.  
 Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW  
 Info: Pliers of series 500 see chapter pliers.  
 Wire definitions see p. 22

# Cutters

## Side- and Tip Cutters



### Tip Cutters – angled, narrow head

Angled head for precision, reach and operator visibility.



Model/Order No.	Description
555E	Tip cutter flush cut 35°, small cutting head, strong version, for cutting applications in confined areas where high cutting capacity is required, medium hard wire 0,6 mm, Cu 1,3 mm, 120 mm, 68 g



572E	Tip cutter flush cut 40°, relieved jaws for easier access, medium hard wire 0,6 mm, Cu 1,3 mm, 115 mm, 68 g
------	---



582E	Tip cutter flush cut 45°, ideal for working on PCBs or cutting component leads, „Anti Overbite System“ avoids blades overlapping, medium hard wire 0,6 mm, Cu 1,3 mm, 115 mm, 68 g
------	--



582EW	flush cut, small tapered head for access even in confined areas, same as 582E but with safety lead service, medium hard wire 0,6 mm, Cu 1,3 mm, 115 mm, 67 g
-------	--



593AE	Tip cutter flush cut 30°, cut easily DIL leads from the rear, cut pins on dense PCBs, medium hard wire 0,4 mm, Cu 1,0 mm, 115 mm, 68 g
-------	--

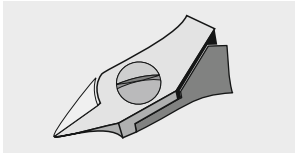


575E	Tip cutter flush cut 45°, very small cutting head, for dedicate work on hybrid circuits or micro modules, medium hard wire 0,2 mm, Cu 0,6 mm, 110 mm, 67 g
------	--

Wire definitions see p. 22

# Cutters

## Side- and Tip Cutters



### Tip Cutters – tapered and relieved head

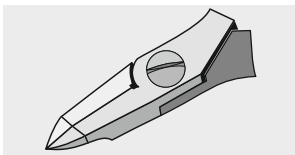
Fine cutter head. One side is cut away for access even in confined areas.



Model/Order No.	Description
592E	Side cutter flush cut, medium hard wire 0,4 mm, Cu 0,8 mm, 115 mm, 67 g



792E	Side cutter super full flush cut, very sharp cut, medium hard wire 0,4 mm, Cu 0,6 mm, 115 mm, 67 g
------	--



### Tip Cutters – straight, tapered and relieved head

Fine and narrow cutter head allows access in confined areas.



Model/Order No.	Description
570E	Tip cutter flush cut, horizontal for cutting at extreme tips, medium hard wire 0,4 mm, Cu 0,6 mm, 120 mm, 67 g

### Tip Cutters – oval head for vertical tip cutting



Model/Order No.	Description
573E	Tip cutter flush cut, for soft wire, Cu 0,8 mm, 120 mm, 67 g

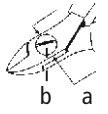
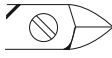


Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.  
Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW

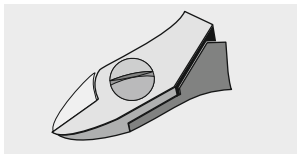
# Cutters

## Side- and Tip Cutters

### Series 800 Maxi – high grade tool steel, ESD safe, resharpenable

The strongest and toughest series. Cut relatively large wire sizes.

	Micro	Medium		Maxi
				
	Series 600	<b>New</b> Series 2400 MagicSense	Series 500	Series 800
Width a	9,0 mm	11,0 mm	11,0 mm	13,5 mm
Thickness b	6,0 mm	6,0 mm	6,5 mm	7,5 mm



### Side Cutters – oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.



#### Model/Order No.

#### Description

812N

Side cutter semi flush cut, robust head,  
medium hard wire 1,2 mm, hard wire 0,6 mm, Cu 1,8 mm,  
120 mm, 67 g



896E

Side cutter semi flush cut, for hard wire,  
Kovar wire, connector pins,  
medium hard wire 1,2 mm, hard wire 0,6 mm, Cu 1,8 mm,  
120 mm, 67 g



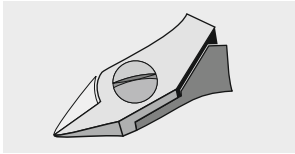
822N

Side cutter flush cut,  
medium hard wire 1,2 mm, Cu 1,8 mm,  
120 mm, 67 g

Wire definitions see p. 22

# Cutters

## Side- and Tip Cutters

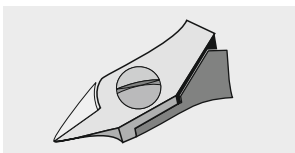


### Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



Model/Order No.	Description
886E	Side cutter flush cut, with robust, tapered head, medium hard wire 1,0 mm, Cu 1,8 mm, 120 mm, 83 g



### Tip Cutters – tapered and relieved head

The smallest head shape. One side is cut away for access even in confined areas.



Model/Order No.	Description
884E	Side cutter flush cut, with robust, tapered head, medium hard wire 0,8 mm, Cu 1,8 mm, 120 mm, 81 g

Optional: Safety lead device + 12,60 Euro holds wire scraps after cutting.

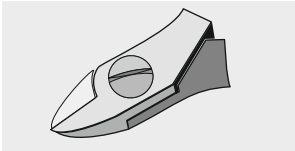
Note: For all side cutters series 500, 600 and 2400. Add "W" when ordering, e. g. 595EW

# Cutters

## Side- and Tip Cutters

### Tungsten Hard Metal Cutters – high grade tool steel, ESD safe, resharpenable

High grade tool steel, Tungsten Carbide blades, for constant load. High precision side cutter for stainless and hard wires like Nickel plated wire and cored-wire electrode. Piano until 60 HRC.

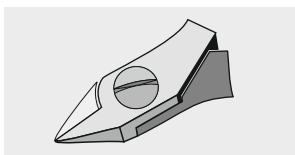


#### Side Cutters – oval head

The most common cutting head for standard cutting applications. The robust cutting head allows high cutting capability.



Model/Order No.	Description
622TX	Flush cut, miniature side cutter, small head, piano wire 0,2 mm, medium hard wire 0,6 mm, hard wire 0,4 mm, Cu 1,2 mm, 115 mm, 67 g
599T	Semi flush cut, robust side cutter, Tungsten Carbide blades, for standard cutting applications, high cutting capability, piano wire 0,6 mm, medium hard wire 1,0 mm, hard wire 0,8 mm, Cu 1,5 mm, 115 mm, 67 g
599TF	Flush cut, robust side cutter, Tungsten Carbide blades, for standard cutting applications, high cutting capability, piano wire 0,6 mm, medium hard wire 1,0 mm, hard wire 0,8 mm, Cu 1,5 mm, 115 mm, 67 g



#### Side Cutters – tapered head

Small tapered head for cutting application in dense working areas.



Model/Order No.	Description
595T	Side cutter semi flush cut, Tungsten Carbide blades, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,5 mm, 115 mm, 67 g
595TF	Side cutter flush cut, Tungsten Carbide blades, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,5 mm, 115 mm, 67 g



Wire definitions see p. 22

# Cutters

## Side- and Tip Cutters

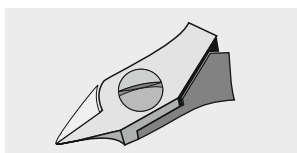
### Side Cutters – tapered head (continued)



Model/Order No.	Description
2476TX1	Flush cut, small head allows very good access, fine tips, high precision side cutter series 2400 (MagicSense) for piano wire 0,3 mm, medium hard wire 0,5 mm, hard wire 0,4 mm, Cu 1,0 mm



576TX1	Flush cut, small head allows very good access, fine tips, high precision side cutter for piano wire 0,3 mm, medium hard wire 0,5 mm, hard wire 0,4 mm, Cu 1,0 mm
--------	--



### Tip Cutters – tapered and relieved head

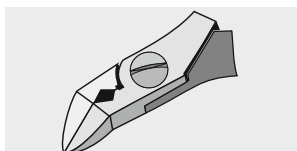
The smallest head shape. One side is cut away for access even in confined areas.



Model/Order No.	Description
2476TX	Flush cut, high precision tip cutter series 2400 (MagicSense), very fine tips, piano wire 0,1 mm, medium hard wire 0,3 mm, hard wire 0,2 mm, Cu 1,0 mm



576TX	Flush cut, high precision tip cutter, Tungsten Carbide blades, very fine tips, piano wire 0,1 mm, medium hard wire 0,3 mm, hard wire 0,2 mm, Cu 1,0 mm, 115 mm, 67 g
-------	--



### Tip Cutters – angled, wide head

Angled head for precision, reach and operator visibility.



Model/Order No.	Description
503ET	Tip cutter semi flush cut 30°, Tungsten Carbide blades, wide and robust head but fine cut, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,2 mm, 110 mm, 67 g



503ETF	Same as 503ET but flush cut, Tungsten Carbide blades, piano wire 0,4 mm, medium hard wire 0,8 mm, hard wire 0,6 mm, Cu 1,2 mm, 110 mm, 67 g
--------	---

# Cutters

## Specials / Pneumatic Side + Tip Cutters

### Specials – high grade tool steel, ESD safe



Model/Order No.	Description
147A	Side cutter semi flush cut, compound action, Cu 1,8 mm, 120 mm, 100 g



884EPCM	Side cutter flush cut, for PCB separation only, 115 mm, 79 g, max. cutting capability wide 2,0 mm thickness 1,5 mm
---------	--



632NCF	Miniature side cutter super full flush cut, ergonomic line, designed for soft materials like small Silicone tubing, miniature rubber gaskets or cutting of molded soft synthetic parts, 110 mm, 67 g
--------	---



599FO	Side cutter for Kevlar silks only, 115 mm, 67 g
-------	--



599TFO	Side cutter semi flush cut, high grade tool steel, Tungsten Carbide blades, for cutting fibre optics, Kevlar, vectran braided wires or small stainless wires, 115 mm, 67 g
--------	---

### Pneumatic Side + Tip Cutters



Model/Order No.	Description
1500BSF	Pneumatic cutter housing, 130 mm, 130 g

# Cutters

## Pneumatic Side + Tip Cutters

### Cutting Heads for 1500BSF

#### Side Cutters – Oval Head



Model/Order No.	Description
1512N	Cutting head semi flush cut, high grade tool steel, max. Cu 1,6 mm



1522N	Cutting head flush cut, high grade tool steel, max. Cu 1,6 mm
-------	---

#### Side Cutters – Tapered Head



Model/Order No.	Description
1522NA	Cutting head flush cut, high grade tool steel, max. Cu 1,4 mm

#### Side Cutters – relieved head



Model/Order No.	Description
1522NB	Cutting head flush cut, high grade tool steel, max. Cu 1,2 mm

#### Tip Cutters – angled head



Model/Order No.	Description
1503E	Cutting head flush cut 30°, high grade tool steel, max. Cu 1,2 mm



Model/Order No.	Description
1522NPC	Side cutter, suitable for cutting printed circuit boards, max. cutting capability wide 2,0 mm, thickness 1,5 mm

# Cutters

## Distance Cutters

### Distance Cutters – high grade tool steel, ESD safe

#### Fixed Cutting Height (= F)



Model/Order No.	Description
530E06	Distance cutter, flush cut, F = 0,6 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E08	Distance cutter, flush cut, F = 0,8 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E10	Distance cutter, flush cut, F = 1,0 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E12	Distance cutter, flush cut, F = 1,2 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E13	Distance cutter, flush cut, F = 1,3 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E15	Distance cutter, flush cut, F = 1,5 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E18	Distance cutter, flush cut, F = 1,8 mm, max. Cu 1,2 mm, 120 mm, 67 g
530E20	Distance cutter, flush cut, F = 2,0 mm, max. Cu 1,2 mm, 120 mm, 67 g

# Cutters

## Distance Cutters

### Distance Cutters – high grade tool steel, ESD safe Fixed Cutting Height (= F), angle 45°



Model/Order No.	Description
549E	Distance cutter, flush cut, F = 1,5 mm, max. Cu 1,2 mm, 120 mm, 67 g
549E10	Distance cutter, flush cut, F = 1,0 mm, max. Cu 1,2 mm, 120 mm, 67 g
549E12	Distance cutter, flush cut, F = 1,2 mm, max. Cu 1,2 mm, 120 mm, 67 g

### Distance Cutters – high grade tool steel, ESD safe Adjustable Cutting Height (= V)



Model/Order No.	Description
530E15A	Distance cutter, flush cut, V = 1,2 to 6 mm, max. Cu 1,2 mm, 120 mm, 70 g
573EB	Distance cutter, plastic anvil, flush cut, V = 0 to 5 mm, max. Cu 0,8 mm, 115 mm, 70 g

# Pliers

## Pliers – high grade tool steel, anti-glare finish, ESD safe



Model/Order No.	Description
543E	Round nose plier, with smooth jaws, very precise, 120 mm, 67 g



547	Needle nose plier, with smooth rounded jaws, very precise, 120 mm, 67 g
-----	---



542E	Flat nose plier, with smooth jaws, precise radiused edges, 120 mm, 67 g
------	---



531E	Flat nose plier, Nylon inserts to prevent nicking, 125 mm, 67 g
------	---







544E	Chain nose plier, with smooth jaws, 120 mm, 67 g
------	--



544D	Chain nose plier, with smooth jaws, inside serrated, 125 mm, 67 g
------	---

# Pliers

## Pliers Series 2400 MagicSense – high grade tool steel, anti-glare finish, ESD safe

Model/Order No.	Description
 <b>2411P</b>	Needle nose pliers with smooth rounded jaws, very precise, 146 mm
 <b>2411PD</b>	Needle nose pliers, same as 2411P, but inside serrated tips, 146 mm
 <b>2442P</b>	Flat nose pliers with smooth jaws, precise radiused edges, 146 mm
 <b>2443P</b>	Round nose pliers with smooth jaws, very precise, for bending wires, 146 mm

### Side Cutters



Model/Order No.	Description
<b>EROP355</b>	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 1,0 mm, 110 mm, 61 g



<b>EROP155</b>	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 1,0 mm, 110 mm, 72 g
----------------	--



<b>EROP419</b>	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 2,0 mm, 130 mm, 110 g
----------------	---



<b>EROP357</b>	Side cutter, semi flush cut, burnished, ESD safe, max. Cu 0,6 mm, 110 mm, 61 g
----------------	--

### Tip Cutters



Model/Order No.	Description
<b>EROP331</b>	Tip cutter, flush cut, burnished, ESD safe, max. Cu 1,5 mm, 120 mm, 81 g



<b>EROP330</b>	Tip cutter, flush cut, burnished, ESD safe, max. Cu 1,0 mm, 130 mm, 84 g
----------------	--

## EROP

## Cutters and Pliers

## Pliers



Model/Order No.	Description
<b>EROP172</b>	Round nose plier, burnished, ESD safe, 125 mm, 63 g



<b>EROP174</b>	Needle nose plier, burnished, ESD safe, 120 mm, 66 g
----------------	---



<b>EROP277</b>	Needle nose plier, burnished, ESD safe, 140 mm, 90 g
----------------	---



<b>EROP280</b>	Needle nose plier, burnished, ESD safe, 170 mm, 113 g
----------------	--



<b>EROP170</b>	Flat nose plier, burnished, ESD safe, 120 mm, 63 g
----------------	---



<b>EROP171</b>	Flat nose plier, burnished, ESD safe, 120 mm, 67 g
----------------	---

# Stripping Tools

## Front Stripping – high grade tool steel, ESD safe



Model/Order No.	Description
510AE	Front stripping tool, adjustable AWG 30–18 (0,25 – 1,02 mm), 120 mm, 75 g



552E	Front stripping tool, high precision, adjustable AWG 42–24 (0,06 – 0,60 mm), 120 mm, 80 g
------	---


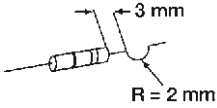

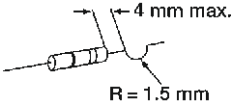

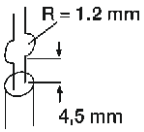

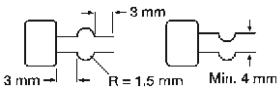

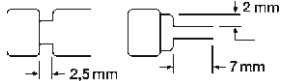
## Side Stripping – high grade tool steel, ESD safe



Model/Order No.	Description
552S	Side stripping tool, high precision, adjustable AWG 42–24 (0,06 – 0,60 mm), 120 mm, 80 g

# Pre-Forming Tools

**For Passive Components – high grade tool steel, anti-glare finish, ESD safe**

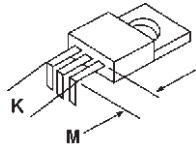
Model/Order No.	Description
 <p><b>554E</b></p> 	<p>Pre-forming tool, u-shape max. 65 mm, capacitors 0,7 mm, resistors 1/2 W, 120 mm, 70 g</p>
 <p><b>554A</b></p> 	<p>Pre-forming tool, u-shape transverse, max. 65 mm, head width 4 mm, 120 mm, 70 g</p>
 <p><b>554TX</b></p> 	<p>Pre-forming tool, double u-shape simultaneously, max. 65 mm, head width 2,5 mm, 120 mm, 70 g</p>
 <p><b>50788</b></p> 	<p>Pre-forming tool, cut and bent max. 65 mm, 120 mm, 70 g</p>
 <p><b>50789Z</b></p> 	<p>Pre-forming tool, cut and bent max. 65 mm, 120 mm, 70 g</p>

# Pre-Forming Tools

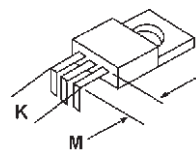
## For Active Components – high grade tool steel, anti-glare finish, ESD safe



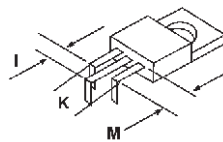
Model/Order No.	Description
500103A	Pre-forming tool, bents 3–12 mm, 120 mm, 85 g



500210E	Pre-forming tool, cut and bent 3,8–15 mm, 120 mm, 85 g
---------	--



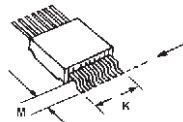
500104A	Pre-forming tool for 3 leads, 3,5–15 mm, 120 mm, 85 g
---------	---



## For Flat Packs, Quads – high grade tool steel, ESD safe



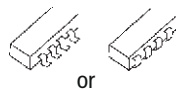
Model/Order No.	Description
80013C	Pre-forming tool, cut and bent, max. 13 mm, 120 mm, 100 g



## For DIL / IC – high grade tool steel, ESD safe



Model/Order No.	Description
8091C	Pre-forming tool, cut and bent, up to 20 pins, 120 mm, 98 g



# IC + SMD Tools

## Inserting and Extracting – high grade tool steel, ESD safe



Model/Order No.	Description
505C	Inserting and extracting pliers, 14–16 pins, 20 mm, adjustable, 120 mm, width .300

505BGC	Inserting and extracting pliers, 28 pins, 36 mm, adjustable, 120 mm, width .300
--------	---

505BG	Inserting and extracting pliers, 28 pins, 36 mm, adjustable, 120 mm, width .600
-------	---

## Straightening – high grade tool steel, ESD safe



Model/Order No.	Description
808G	Straightening pliers, 8 to 16 pins, parallel or laterally, 125 mm, 85 g

## Cutting – high grade tool steel, anti-glare finish, ESD safe



Model/Order No.	Description
670EP	High precision tip cutter for cutting leads up to 0,25 mm, 110 mm, 48 g



593AE	High precision tip cutter bent, cuts leads from the rear, medium hard wire 0,4 mm, Cu 1,0 mm, 115 mm, 67 g
-------	--

# Fibre Optic Tools/Kits

## Side Stripping – high grade tool steel, anti-glare finish, ESD safe



Model/Order No.	Description
552S	Side stripping tool, high precision, adjustable AWG 42–30 120 mm, 80 g

## Cutting – high grade tool steel, ESD safe



Model/Order No.	Description
599FO	Side cutter for Kevlar silks only, 115 mm, 67 g



599TFO	Side cutter semi flush cut, Tungsten Carbide blades, for cutting fibre optics, Kevlar and small stainless wires, 115 mm, 67 g
--------	--

## Holding / Gripping



Model/Order No.	Description
249SA	Precision tweezers with PPS tips, special stainless steel, unmagnetic, 120 mm, 20 g

## Kit for SMD handling



Model/Order No.	Description
3900KC	Kit for SMD handling consists of: 51SA precision tweezers 102ACA SMD tweezers 103ACA SMD tweezers 150SAMB SMD tweezers 150SAMF SMD tweezers 670EP tip cutter

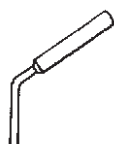
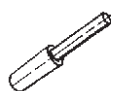
# Vacuum Manipulator

## Handle



Model/Order No.	Description
3000ESD	Handle

## Adapter



Model/Order No.	Description
3200	Adapter 360° rotating, straight nozzle

3231	Adapter fix for use with suction tips series 3300
------	---

3232	Adapter fix for use with suction cup 2052E
------	--

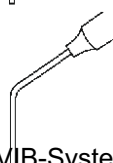
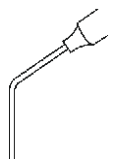
## Suction Tips Straight



Model/Order No.	Description
2044Z	Suction tip 0,90 mm straight, Teflon tip for use with rotating adapter 3200 or fix adapter 3232

2041Z	Suction tip 1,4 mm straight, Teflon tip for use with rotating adapter 3200 or fix adapter 3232
-------	--

## Suction Needles



Model/Order No.	Description
3303	Suction needle bent 45°, 0,16 mm, stainless steel, for use with fix adapter 3231

3305Z	Suction needle bent 45°, 0,25 mm, stainless steel, for use with fix adapter 3231
-------	--

3310Z	Suction needle bent 45°, 0,65 mm, stainless steel, for use with fix adapter 3231
-------	--

# Vacuum Manipulator/Kits

## Suction Cups



Model/Order No.	Description
2052E	Suction cup Ø 4,5 mm, Silicone rubber, for use with rotating adapter 3200 or fix adapter 3232

## Accessories

Model/Order No.	Description
3715Z	Membrane pump 230 V, 5 l/min, max. vacuum -250 mbar (NOT FOR USE WITH 3000WESD)

3008ESD	Tubing system flexible, 1,8 m, ESD safe
---------	---

3717	Filter for tubing system 3008ESD
------	----------------------------------



3740	Table holder for 3000ESD w/o accessory
------	--

## Vacuum-Kit

Model/Order No.	Description
3000KCESD	Vakuum-Kit
	consists of:
	<b>3000ESD</b> Handle
	<b>3200</b> Adapter rotating
	<b>3231</b> Adapter fix
	<b>3305Z, 3310Z, 3315</b> Suction needles bent
	<b>2052E</b> Suction cup 4,5 mm
	<b>KDS 260L</b> Suction cup 9,5 mm
	<b>3740</b> Table holder
	<b>3715Z</b> Membrane pump 230 V
	<b>3008ESD</b> tubing system
	<b>3717</b> Filter
	<b>102ACA</b> SMD tweezers



# Tool Kits



## Erem Toolset Universal

Model/Order No.	Description
<b>3600KU</b>	Erem Toolset Universal consists of: XP600 Precision-screwdriver set for electronics 2412E Series 2400 MagicSense side cutter, semi-flush, oval head 2442P Series 2400 MagicSense flat nose pliers 622NB Tip cutter, flush, relieved, long, fine head AASA Precision tweezers 2ASASL Precision tweezers



## Erem 2400 MagicSense

Model/Order No.	Description
<b>2400KMS</b>	Erem 2400 MagicSense consists of: 2412E Series 2400 MagicSense side cutter, semi-flush, oval head 2482E Series 2400 MagicSense tip cutter, flush, narrow head 2411P Series 2400 MagicSense needle nose pliers



## Erem Tweezers Prime Selection

Model/Order No.	Description
<b>3300TPS</b>	Erem Tweezers Prime Selection consists of: 3SA Precision tweezers with pointed tips straight 2ASA Precision tweezers with flat rounded tips for gripping smaller components, tip width 2 mm 7SA Precision tweezers curved, relieved, with pointed tips



## Erem SMD Tweezers – Universal

Model/Order No.	Description
<b>3400TSMDU</b>	Erem SMD Pinzetten – Universal consists of: 103ACA SMD precision tweezers angled 45°, tip width 0.5 mm 150SAMF SMD precision tweezers with round tips, angled 40° 102ACAX SMD precision tweezers with angled pointed tips 7SA Precision tweezers curved, relieved, with pointed tips



## Erem Premium Tweezers

Model/Order No.	Description
<b>3500TP</b>	Erem Premium Tweezers consists of: 3SA Precision tweezers with pointed tips straight 2ASA Precision tweezers with flat rounded tips 7SA Precision tweezers curved, relieved, with pointed tips 102ACA SMD precision tweezers tip width 0.5 mm, angled 45° 15AGW Cutting tweezers with narrow oblique head