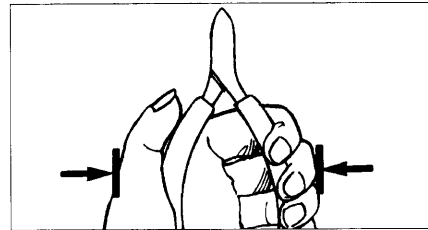
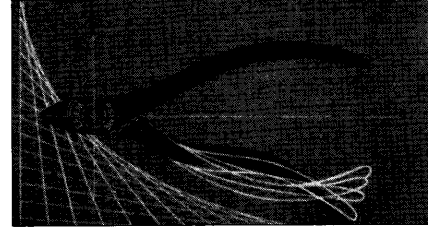
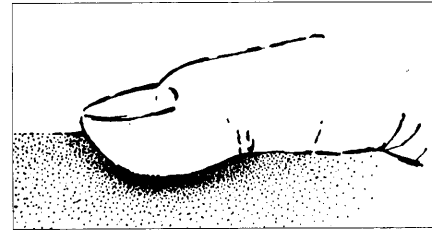




The Erem-Magic pliers are definitely unique in quality, precision, reliability, life-time and ergonomics. They are far superior to any of the other professional tools on the market.

Here are the reasons why:

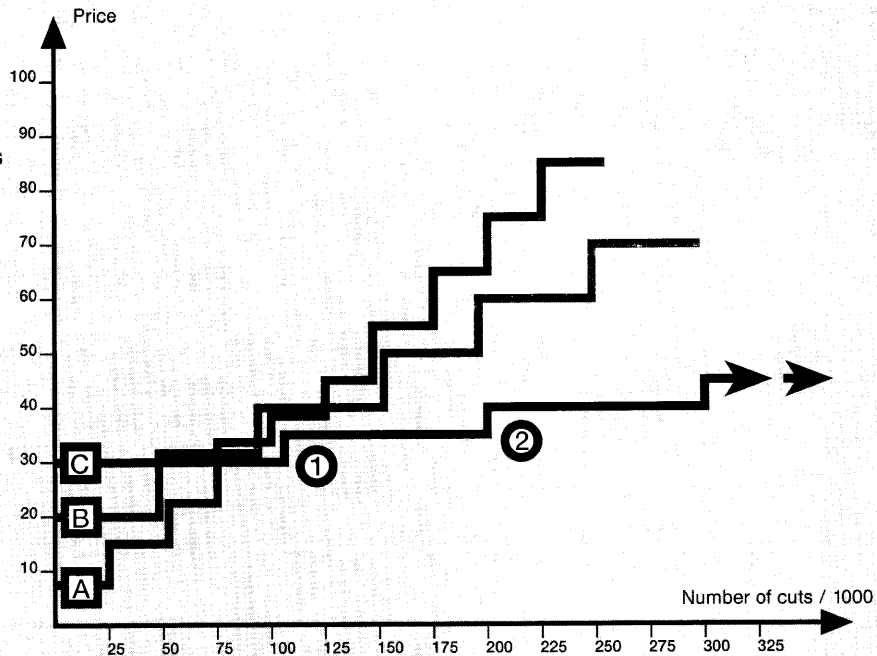
1. The Magic hand tools are of extruded tool steel, 100% machined.
2. They are all constant and regular in precision.
3. A solution has been found for practically all problems in assembly, research and production works.
4. The Magic hand tools are long lasting.
5. The magic cutters' fine sharpening allows for reduced wear and less working force.
6. Their ergonomic foam grips allow easier handling and less fatigue.
7. Erem Magic hand tools are ESD safe.
8. Erem Magic hand tools are "Made in Switzerland".



Cost per cut comparison

A = Low-end tools
 B = Medium Quality
 C = Erem

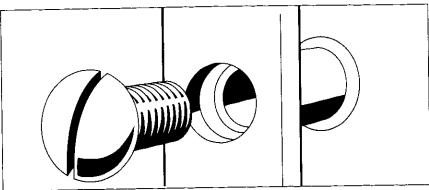
①, ② = average stages of Erem cutters needing resharpening.



The best way to compare the real costs between different hand tools is to consider the number of cuts - besides the work itself and the performance.

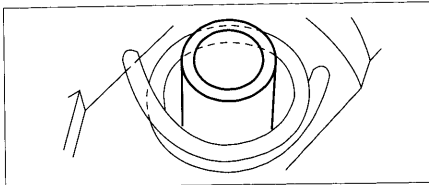
The parameters below indicate how Magic tools - representing a higher initial investment - become even more economical than lower quality cutters on a medium or long-term basis.

("PRICE" can be defined in various currencies)



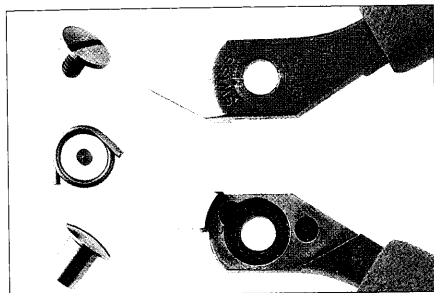
Joints

Surfaces between the two halves are machine-faced. They provide smooth, wobble-free operation. Interlock Screw System, no blades overlapping, no way of blocking the head by "over tightening".



Springs

Built-in springs! Invisible, long life, interchangeable. The closing and opening force is linear. Minimum hand pressure to reduce user fatigue.



Opening Stops

Ergonomic-type integrated stop. Limits handles from opening and reduces operator fatigue by preventing excessive hand spread.

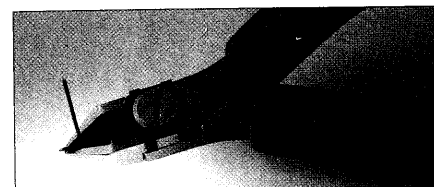
*** Magic Handles**

Static-dissipative. Standard on all models. No extra cost.



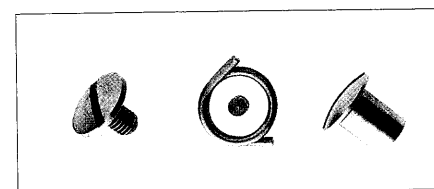
CP (Option)

Conductive grips, available on all Magic tools. Add „CP“ when ordering.
Example: 595 E + CP
3 Sizes: Series 500, 600, 800



W (Option)

Cutting safety device. Holds wire scraps. Safety lead-catcher to be adapted on all side-cutters, series 800, 1500 B. 2200 series on request. N series, min. 100 pcs per size. Add "W" when ordering, example: 595 E + W.



Erem Customer Service for Magic Tools

Erem tools and their spare parts are guaranteed against defects. The following parts would be supplied free (return defective ones):

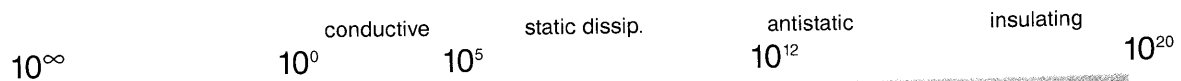
- Magic **foam grips**
- Magic **springs**
- Magic **stops**



Please advise size (S, M, L) small, medium, large

*

Surface electro-resistivity in Ω / cm^2 :



EMI/RF

„CP“

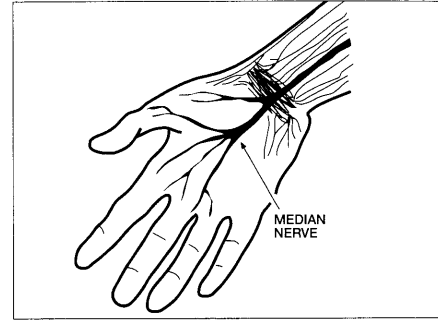
Erem-Magic

Sources: DOD/CECC

Erem Ergonomics

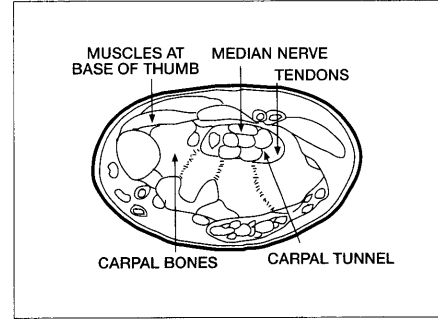
Introduction

Repetitive use of hand tools can cause compression of the median nerve and produce sensations of pins and needles.



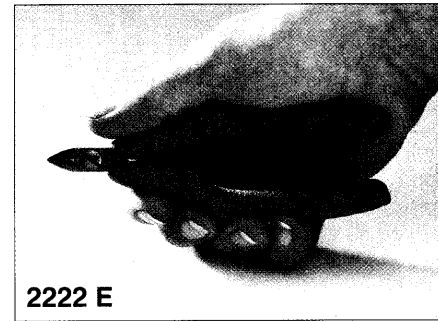
Problem: CTS

This possible discomfort is called Carpal Tunnel Syndrome (CTS). The ability to grip and hold objects can be impaired.



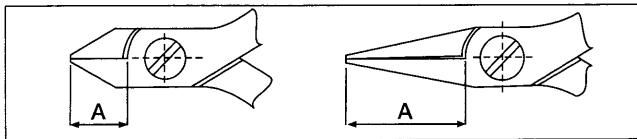
Solution: ERG

An ergonomic-type handle has been developed by Erem to reduce exposure to the CTS. Add suffix "ERG". It allows gripping pressure to be distributed over the full palm area. It is slightly flexible, soft and lightweight.
Example: 595 E-ERG.
Ergo Series, see pages 34-35

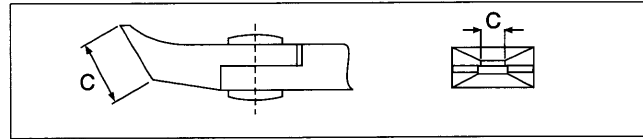


Useful Dimensions

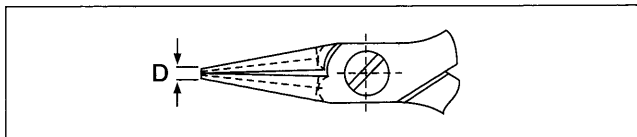
(Subject to change without notice)



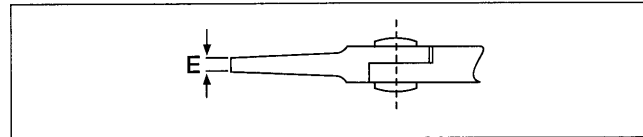
A = Length of jaws



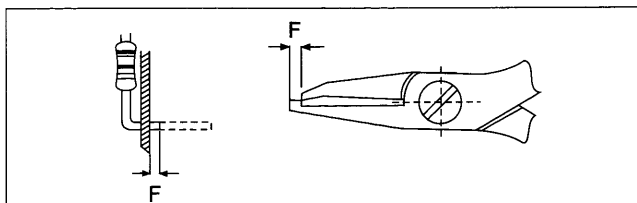
C = Length of blades



D = Overall width in closed condition



E = Width of tips



F = This length (for shear cutters) can be determined by the user. No surcharge up to 2,5 mm (.010).

Ref.N°

Materials

Type of cut

Copper wires Cu max. ϕ

Various

Page



ϕ 0.2-0.6

ϕ 0.6 - 1.2

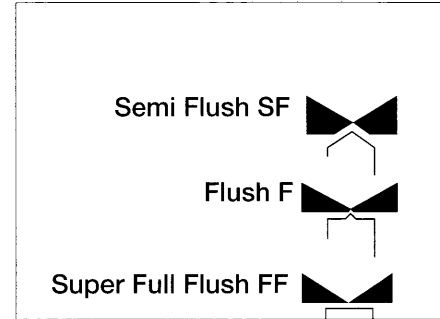
ϕ + 1.2 mm

Ref.N°	Materials			Various	Page	Type of cut			
	ϕ 0.2-0.6	ϕ 0.6 - 1.2	ϕ + 1.2 mm			SF	F	FF	
147 A	■	■	■			•			
500 - 108	■	■	■		41				•
503 E	■	■	■		37				
503 ET	■	■	■	Specify application	39	•		•	
504 AE	■	■	■		37			•	
509 E	■	■	■	IC-Pins only					•
511 E	■	■	■		26	•			
512 E	■	■	■		27	•			
512 N	■	■	■		32	•			
512 FO	■	■	■	For fibre only	58	•			
521 E	■	■	■		28		•		
522 E	■	■	■		28		•		
522 N	■	■	■		32		•		
530 E	■	■	■		40				•
530 E - 15	■	■	■		40				•
530 S	■	■	■		41				•
532 N	■	■	■		32			•	
549 E	■	■	■		40				•
555 E	■	■	■		37		•		
570 E	■	■	■		38		•		
572 E	■	■	■		38		•		
573 E	■	■	■		39		•		
573 EB	■	■	■		41		•		
575 E	■	■	■		38		•		
576 E	■	■	■		28		•		
576 TX	■	■	■		31		•		
577 E	■	■	■		28		•		
582 E	■	■	■		38		•		
582 EW	■	■	■		38		•		
592 E	■	■	■		28		•		
593 AE	■	■	■	IC-Pins only	44				
595 E	■	■	■		29		•		
595 T	■	■	■	Specify application	31	•			
595 TF	■	■	■	Specify application	31		•		
597 E	■	■	■		27	•			
599 E	■	■	■		29		•		
599 FO	■	■	■	For Kevlar only	58				
599 T	■	■	■	Specify application	31	•			
599 TF	■	■	■	Specify application	31		•		
611 E	■	■	■		26	•			
612 E	■	■	■		26	•			
612 N	■	■	■		33	•			
622 N	■	■	■		33		•		
622 NA	■	■	■		33		•		
622 NB	■	■	■		33		•		
632 N	■	■	■		33			•	
670 E	■	■	■		39		•		
670 EP	■	■	■	For SMD / IC-Pins only	49		•		
676 E	■	■	■		27		•		
677 E	■	■	■		27		•		
710 E	■	■	■		30			•	
776 E	■	■	■		30			•	
792 E	■	■	■		30			•	
884 E	■	■	■		29		•		
884 EPC	■	■	■	For PCB attachments only	29		•		
886 E	■	■	■		29		•		
896 E	■	■	■		27	•			
2212 E	■	■	■		34	•			
2222 E	■	■	■		34		•		
2232 E	■	■	■		34			•	
2697 E-PC	■	■	■	For PCB attachments only	57				

Cut

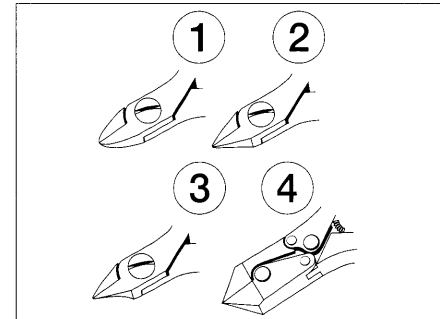
Suggestions to a choice:

1. For standard cut one should consider blades with semi-flush edges (**SF**)
or:
2. Flush cut (**F**)
or:
3. Flush cut, "razor sharp" cutting edges, exclusively for soft wires = Erem 700 series (**FF**)
Form ①, ②



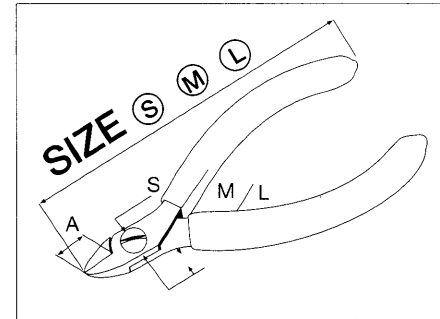
Form

- ① = Standard cut
- ② = Easier accessibility
- ③ = Easier accessibility
- ④ = Specials



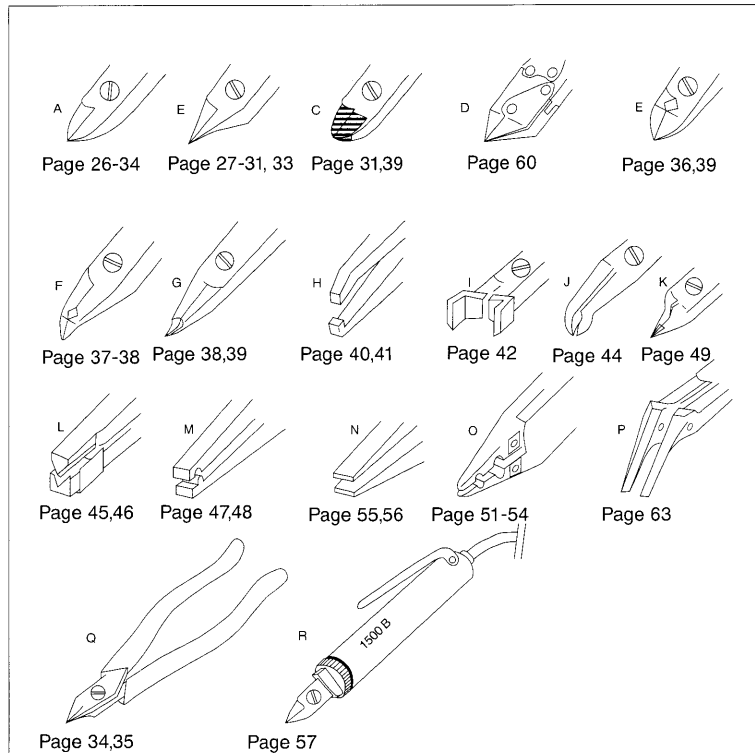
Size

- ③ = 110 mm S = 9 mm
- ④ = 115 mm M = 11 mm
- ⑤ = 125 mm L = 13 mm

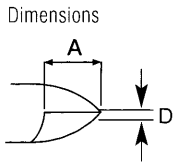
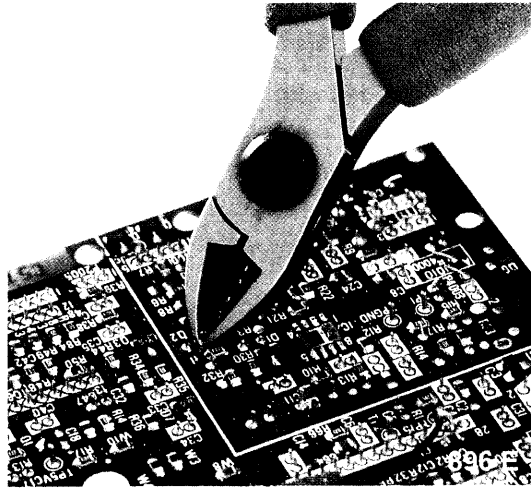


Applications

- A = Standard cut
- B = PCB
- C = Medical
- D = Strong wire
- E = SMD
- F = PCB, SMD
- G = Micro-circuits
- H = Distance-Cutting
- I = IC-insertion / extraction
- J/K = Pin cutter for IC/SMD
- L = Preforming
- M = Preforming of passive components
- N = Bending holding
- O = Stripping
- P = Connector tools
- Q = Ergonomics
- R = Pneumatic



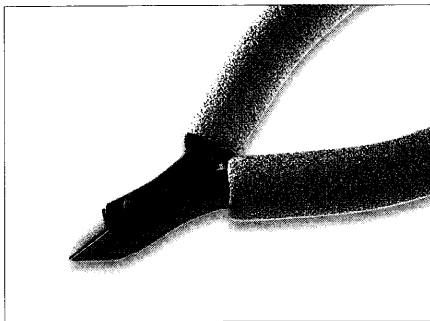
Side Cutters
All Erem-Magic-Cutters
are ESD-safe.



Model

Size

Description



611 E

110 mm

Miniature semi-flush cutter.
Small head allows very good
access. Anti-glare finish.

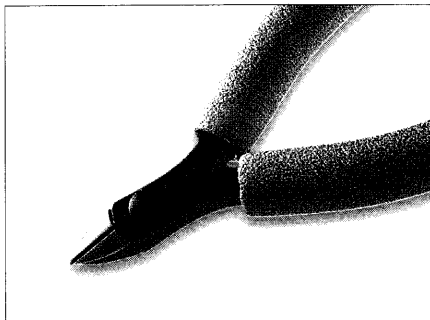
4 1/4"



A Max. Cu ø 1,5 mm / .059

9 mm

.354



612 E

110 mm

Same as above, but medium-size
head allows good access. Anti-
glare finish. Semi-flush cut.

4 1/4"



A Max. Cu ø 1,5 mm / .059

10,5 mm

.413



511 E

115 mm

Anti-glare finish. High cutting
capacity. Semi-flush cut. Typical
universal side-cutter.

4 1/2"



A Max. Cu ø 1,6 mm / .063

10 mm

.394

Pliers

Side Cutters

Description

Anti-glare finish. A medium-size cutter for tough cutting applications. Semi-flush cut. Typical universal side-cutter. 512 E FO see page 58.

A Max. Cu ø 1,6 mm / .063
 12 mm
 .472

For soft and small hard wires, semi-flush edges. Strong head.

A Max. Cu ø 1,6 mm / .063
 12 mm
 .472

For general purpose use when cutting hard leads, kovar wires, connector pins etc. Semi-flush cut.

A Max. Cu ø 1,5 mm / .059
 15 mm
 .591

Super-fine relieved head cutter. Full-flush cut.

A Max. Cu ø 1 mm / .040
 9 mm
 .354

Same, but straight head.

A Max. Cu ø 1 mm / .040
 9 mm
 .354

Size

115 mm
 4 1/2"
 (M)

115 mm
 4 1/2"
 (M)

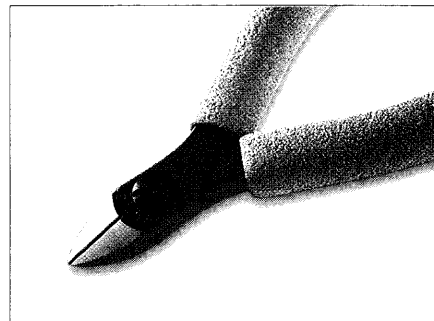
120 mm
 4 3/4"
 (L)

110 mm
 4 1/4"
 (S)

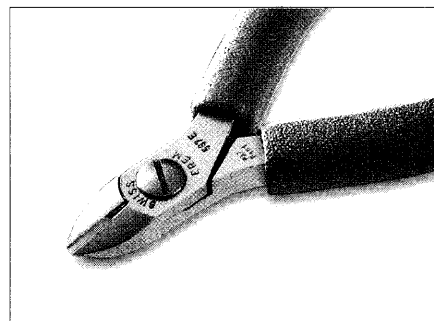
110 mm
 4 1/4"
 (S)

Model

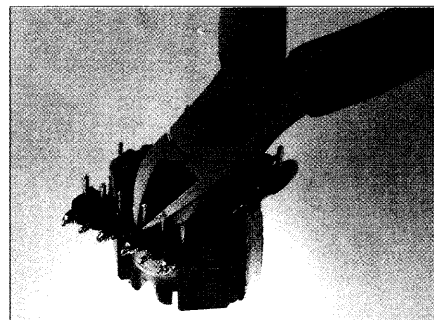
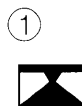
512 E



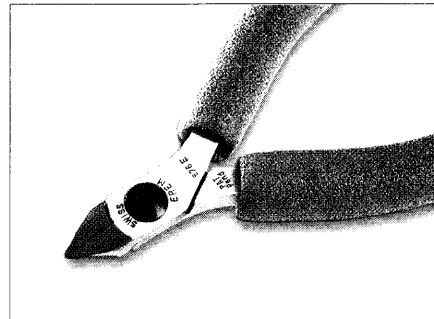
597 E



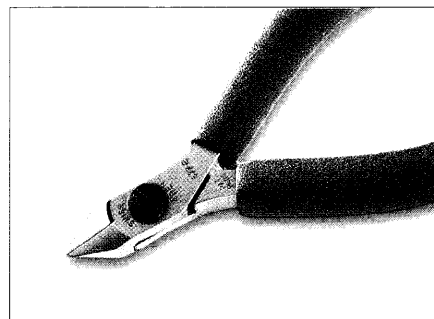
896 E



676 E



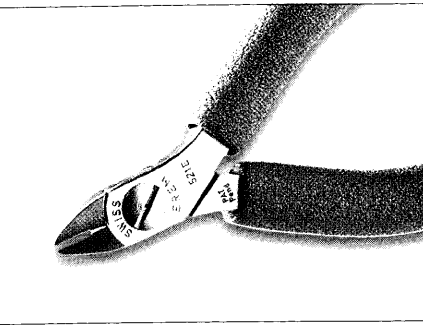
677 E



Model

Size

Description



521 E

115 mm

Polished head. Full flush cut.

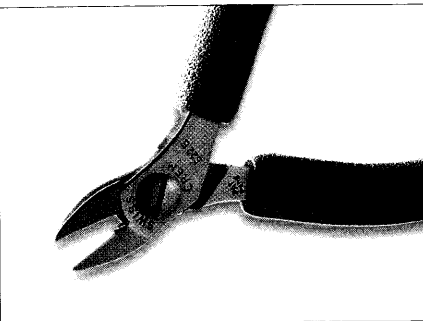
4 1/2"

①

Ⓜ



A	Max. Cu ø 1,2 mm / .047
10 mm	
.394	



522 E

115 mm

Full flush cut with polished head.

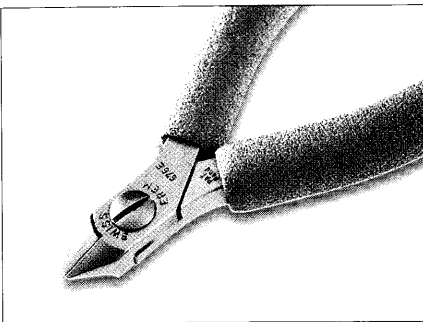
4 1/2"

①

Ⓜ



A	Max. Cu ø 1,2 mm / .047
12 mm	
.472	



576 EZ

115 mm

For fine, soft wires. Super-fine relieved straight head.

4 1/2"

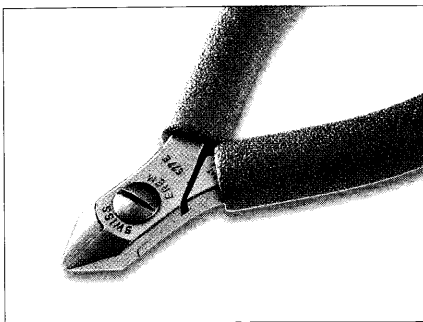
Full-flush cut.

③

Ⓜ



A	D	Max. Cu ø 1,2mm / .047
9 mm	1 mm	
.354	.039	



577 E

115 mm

Same as 576 E, but head not relieved.

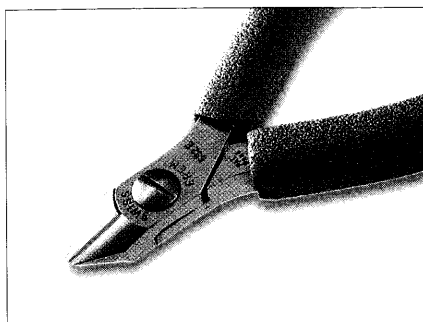
4 1/2"

②

Ⓜ



A	D	Max. Cu ø 1,2 mm / .047
9 mm	1 mm	
.354	.039	



592 E

115 mm

For copper wires. Fine relieved head. Full-flush cut.

4 1/2"

③

Ⓜ



A	D	Max. Cu ø 0,6 mm / .024
12 mm	1,5 mm	
.472	.059	

Description

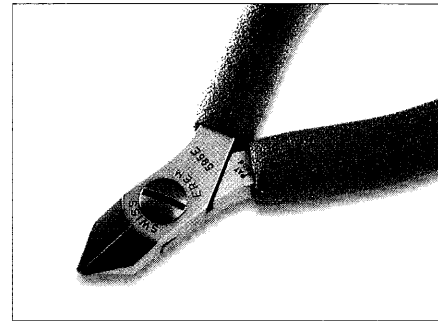
Size

Model

Straight head. Standard type.
Full-flush cut.

115 mm
4 1/2"
(M)

595 E
②

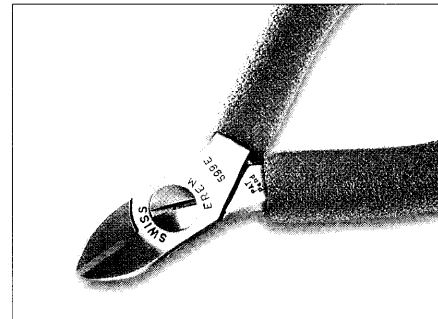


A	D	Max. Cu ø 1,2 mm / .047
12 mm	1,5 mm	
.472	.059	

Full-flush cut but strong head.

115 mm
4 1/2"
(M)

599 E
①

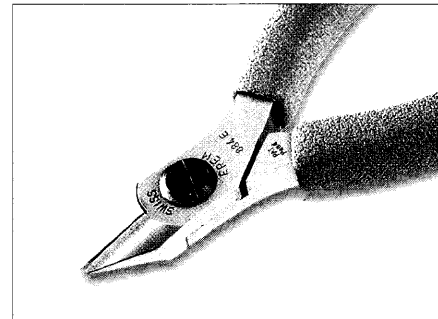


A	Max. Cu ø 1,6 mm / .063
12 mm	
.472	

Jaws relieved to permit cutting in limited-access areas. Full-flush cut.

120 mm
4 3/4"
(L)

884 E
③



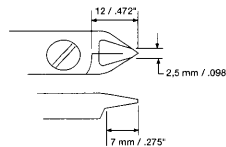
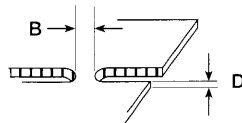
A	D	Max. Cu ø 1,6 mm / .063
15 mm	1,5 mm	
.591	.059	

Side cutter. For PCB separation.

115 mm
4 1/2"
(M)

884 E PC
③

max. D	max. B
0,8 mm	2,0 mm
.031	.079



Same as 884 E, but with stronger head. Full-flush cut.

120 mm
4 3/4"
(L)

886 E
②

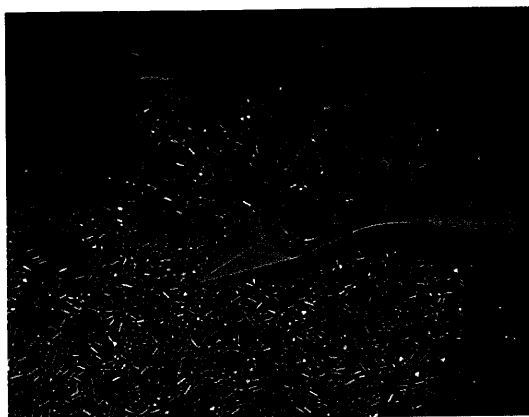


A	D	Max. Cu ø 1,8 mm / .070
15 mm	1,5 mm	
.591	.059	

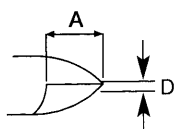
**Series 700•
Super Full Flush**

Fine honing and sharpening. For professional applications such as space, medical, where a perfect full flush cut is imperative.

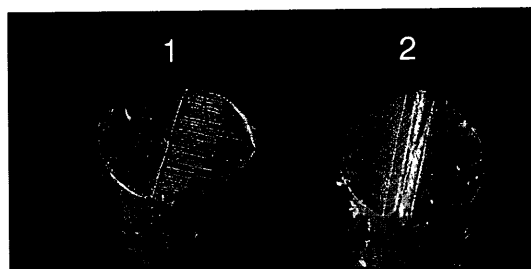
The "700 series" cutters are unbeatable as far as precision cutting is concerning.



Dimensions



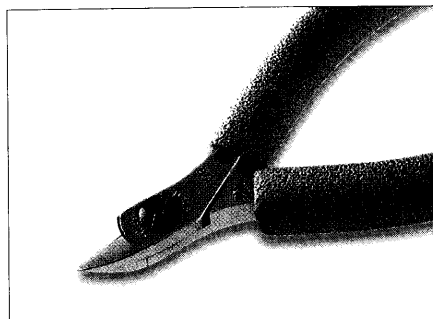
1 Erem Cut
2 Others



Model

Size

Description



710 E

110 mm
4 1/4"

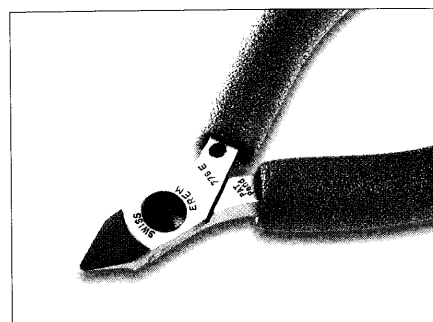
Miniature head Super-full-flush cutter. Ideal for small circuit board work. Recommended for cutting 24 AWG and smaller leads.

①

Ⓢ



A	Max. Cu ø 1 mm / .039
8,8 mm	
.346	



776 E

110 mm
4 1/4"

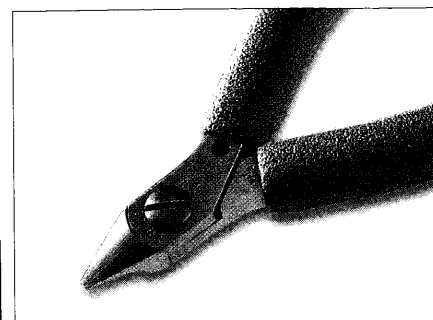
Small tapered relieved head. Super-full-flush.

③

Ⓢ



A	D	Max. Cu ø 1 mm / .039
9 mm	1 mm	
.354	.039	



792 E

115 mm
4 1/2"

Very fine elongated tips (13mm [.512]). For fine copper wires, max. dia. 0,6 mm (.031). Relieved head. Super-full-flush.

③

Ⓜ



A	D	Max. Cu ø 0,6 mm / .024
13 mm	1 mm	
.512	.039	