



# Special tools

## IC AND SMD TOOLS, FIBER-OPTIC TOOLS



### IC and SMD tools

IC and SMD tools with precise fine adjustment for inserting, extracting, straightening and cutting IC and SMD components



### Fibre optic tools

High-precision tools for optical fibers for professional stripping, suitable for cutting Kevlar® silks, Vectran™-sheathed wires, etc.

Side cutters and tip cutters

Pliers

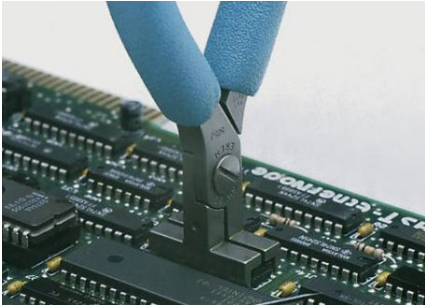
Tweezers

Special tools

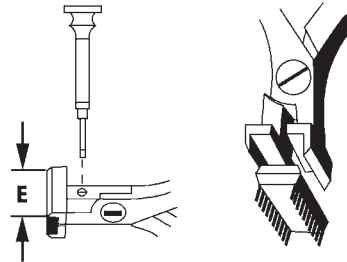
Kits

# IC and SMD tools

## IC and SMD tools for inserting, extracting, straightening and cutting IC and SMD components



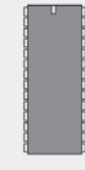


 4.724 Inch / 120 mm



- Non-reflecting surface
- ESD-safe
- One screwdriver included for fine adjustments.



| Model         |   |   |   | E     |    | Width |      |  |
|---------------|---|---|---|-------|----|-------|------|--|
|               |   |   |   | Inch  | mm | Inch  | mm   |  |
| <b>505C</b>   | <b>505C</b>   | <b>505BGC</b>   | <b>505BG</b>  | 0.787 | 20 | 0.3   | 7.62 | Inserting and extracting 14-16 pins      |
|               | 14-16   | 28  | 28  |       |    |       |      |  |
|               |  |  |  |       |    |       |      |  |
|               | .300  | .300  | .600  |       |    |       |      |  |
| <b>505BG</b>  |   |   |   | 1.417 | 36 | 0.591 | 15   | Inserting and extracting 28 pins         |
| <b>505BGC</b> |   |   |   | 1.417 | 36 | 0.300 | 7    | Inserting and extracting pliers, 28 pins |

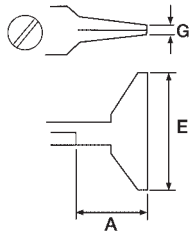


## Pliers for straightening



 5.118 Inch / 130 mm

 4.232 / 120 g



- Practical straightening tool, suitable for straightening contacts, DIL/IC connections.
- Non-reflecting surface
- ESD-safe
- Up to 16 connections possible.



| Model | A     |    | E     |    | G     |    |
|-------|-------|----|-------|----|-------|----|
|       | Inch  | mm | Inch  | mm | Inch  | mm |
| 808G  | 0.906 | 23 | 1.653 | 42 | 0.039 | 1  |




## Tip cutter – straight short relieved head



 4.331 Inch / 110 mm

 1.693 oz. / 48 g

- Suitable for cutting SMD and micro-package contacts.
- High-precision tip cutter
- For connections of SMD micro-packages up to 0.25 mm / .010 inch, also for pitches smaller than 1/20".
- For  $\mu$  pitches below 0.5 mm / .019 inch, you will need the 670EPF

| Model | Cut  | A     |    | B     |    | C     |    | D     |    |
|-------|--|-------|----|-------|----|-------|----|-------|----|
|       |  | Inch  | mm | Inch  | mm | Inch  | mm | Inch  | mm |
| 670EP | <br>Flush | 0.118 | 3  | 0.354 | 9  | 0.236 | 6  | 0.709 | 18 |

Side cutters and tip cutters

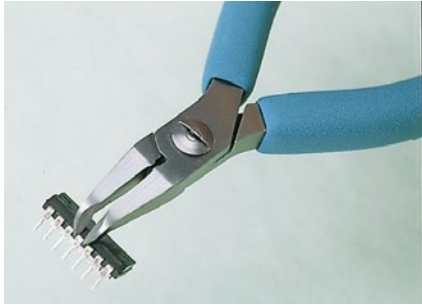
Pliers

Tweezers

Special tools

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## Tip cutter – angled narrow head




 **4.528 Inch / 115 mm**

 **2.399 oz. / 68 g**

 **30°**

- High precision tip cutter, bent.
- Practical rework tool.
- For cutting DIL contacts directly on the component.
- Ideal for densely printed boards.
- Non-reflecting surface
- ESD-safe

| Model        | Cut  | A     |    | B     |    | C     |    | D     |    | Max. cutting capability in mm |                 |             |
|--------------|--|-------|----|-------|----|-------|----|-------|----|-------------------------------|-----------------|-------------|
|              |  | Inch  | mm | Inch  | mm | Inch  | mm | Inch  | mm | Hard wire                     | Medium hardness | Copper wire |
| <b>593AE</b> | <br>Flush | 0.157 | 4  | 0.433 | 11 | 0.236 | 6  | 1.024 | 26 |                               | ø 0,4           | ø 1,0       |

## 3900KC

### Kit for SMD work

Order No. 3900KC

- For SMD assembly and repair applications.
- 6-pieces tool kit with monitored discharging ESD handles.
- Special tool steel.
- High-quality precision tweezers, non-magnetic.
- In an ESD-safe plastic case.

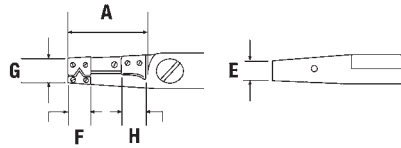


| Scope of supply | Model          | Description  |
|-----------------|----------------|--|
|                 | <b>102ACA</b>  | SMD tweezers, angled 45°, with pointed tips for vertical application.  |
|                 | <b>103ACA</b>  | SMD tweezers, angled 45°, with slightly wider tips for vertical application.   |
|                 | <b>150SAMB</b> | SMD tweezers, angled 40°, with round tips, dia. 1.2 – 2.5 mm / .047 – .098 Inch. Serrated finger grips for secure handling.  |
|                 | <b>150SAMF</b> | SMD tweezers with round, very narrow tips, dia. 1.2 – 2.5 mm/ .047 – .098 Inch. Serrated finger grips for secure handling. For gripping cylindrical components, mini MELFs, etc. |
|                 | <b>51SA</b>    | Precision tweezers, curved 30°, relieved. Very pointed tips. Relieved shape at front of handle provides excellent visibility of the area to be worked on.                        |
|                 | <b>670EP</b>   | Tip cutter – straight short relieved head  |



# High precision stripping pliers

Side stripping 0.06 mm - 0.6 mm .002 Inch - .023 Inch (AWG 42 - 24)



A = Jaw length  
 E = Width of tips  
 F = Depth of interchangeable blade  
 G = Total height of both tips  
 H = Length of cutting blade

- Robust, high-precision tools for use in electronics and aeronautical engineering
- The required diameter is set by means of screws
- Screwdriver and key are included
- Interchangeable blades
- ESD-safe
- Unique precision for damage-free stripping of fine wires.
- Suitable for all types of insulation, Teflon®, Tefzel and optical fibres.
- Unlimited stripping length thanks to side stripping
- Suitable for simple and precise stripping of optical fibres
- Non-reflecting surface

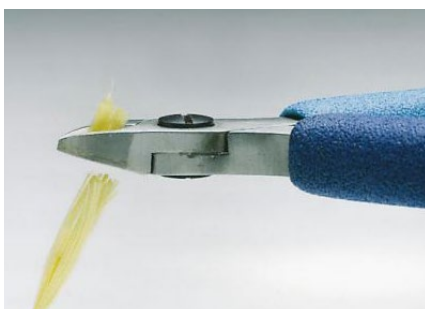


4.724 Inch / 120 mm

2.82 / 80 g

| Model | A    |    | E    |    | F    |    | G    |    | H     |    | Wire diameter |            |
|-------|------|----|------|----|------|----|------|----|-------|----|---------------|------------|
|       | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch  | mm | Inch          | mm         |
| 552S  | 0.82 | 21 | 0.24 | 6  | 0.24 | 6  | 0.43 | 11 | 0.354 | 9  | 0.002 - 0.024 | 0,06 - 0,6 |

## Special applications: Kevlar® silks



4.528 Inch / 115 mm

2.36 oz. / 67 g

- Side cutter, suitable for cutting Kevlar® silks.
- Avoid any other application than cutting kevlar silks to not damage the tool

| Model | Cut | A     |    | B     |    | C    |    | D     |    |
|-------|-----|-------|----|-------|----|------|----|-------|----|
|       |     | Inch  | mm | Inch  | mm | Inch | mm | Inch  | mm |
| 599F0 |     | 0.472 | 12 | 0.433 | 11 | 0.24 | 6  | 0.748 | 19 |




## Special applications: Special tool steel



 **4.528 Inch / 115 mm**

 **2.36 oz. / 67 g**

- Side cutter for cutting Kevlar® silks, Vectran™-sheated wires, optical fibres and small stainless wires.
- Side cutter with cutting edges made from tungsten carbide.

| Model  | Cut   | A     |    | B    |    | C    |    | D     |    |
|--------|---|-------|----|------|----|------|----|-------|----|
|        |   | Inch  | mm | Inch | mm | Inch | mm | Inch  | mm |
| 599TF0 | <br>Semi-flush | 0.472 | 12 | 0.43 | 11 | 0.24 | 6  | 0.748 | 19 |