swiss made

# ergo-tek

ideal-tek s.a.

manufacturer of high precision tools and instruments

ISO 9001
BUREAU VERITAS
Certification

Ideal-tek has been always known as an innovative company and, in the last few years, thanks to an intensive co-operation with Universities, has been able to turn market needs and ideas into innovative and unique products.

Our NEW ergo-tek cutters and pliers line is the result of the co-operation with POLIMI's usability Lab in Milan.

click here to download the Paper Abstract

2-Component ESD-safe user-friendly Ergonomic handles with a soft comfortable gripping surface.

For every handles production lot Ideal-Tek performs the following test:

- point to point resistance
- surface resistance
- decay time analysis




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High quality ball bearing steel

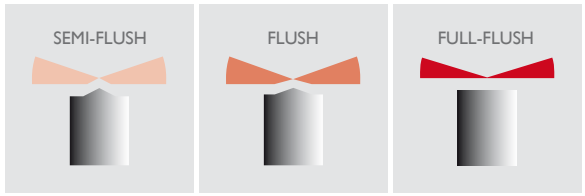
- 45 Rockwell Hardness (HRC) for pliers
- 63 Rockwell Hardness for cutters

Pyrometer controlled inductive hardening

Superior no-scratch/antiglare satin finish

For every single production lot Ideal-Tek performs **metallographic and hardness profile analysis.**

## Cutting blades definition




## Wire definition

- SOFT wire, copper, aluminium, tensile strength 250 MPa
- MEDIUM-HARD wire, stainless steel wire, material 1.4301, tensile strength 800 MPa
- HARD wire, stainless steel wire, material 1.4301, tensile strength 1800 MPa

**100% visual inspection**

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- Dual leaf springs made of stainless steel
- Lap joint with screw, to achieve a high level of strength and precision
- Nuts made of hardened alloy steel to resist high cutting load
- Fine-pitched screw for perfect joint adjustment
- Perfect symmetry




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The application engineering of the Ideal-Tek factory will conduct test cutting and cutting evaluations at no charge upon the receipt of test wire samples.
We also provide free cutter model recommendations.

In order to preserve your cutters perfectly efficient keep a thin oil film on the tips head.

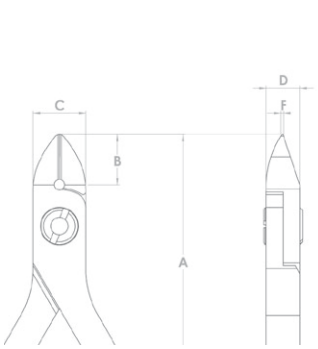
click here to see the maintenance (VIDEO)

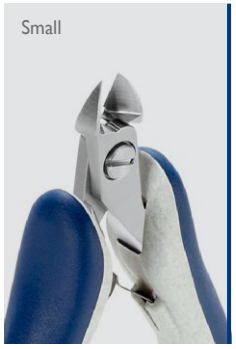
## CUTTERS

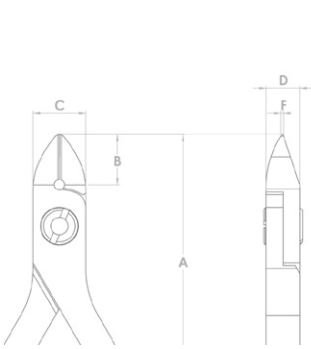
- Oval
- Tapered
- Tapered & Relieved
- Wire Lead Catchers
- Special

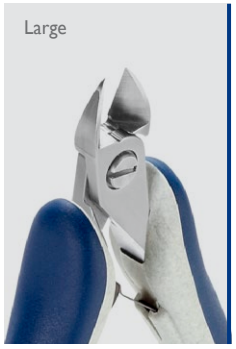
## PLIERS

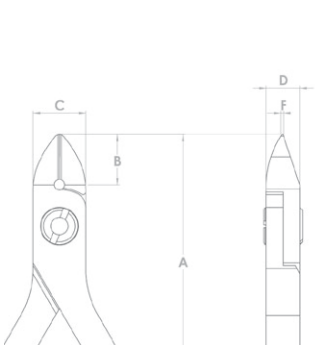
- Snipe Nose
- Flat & Round Nose

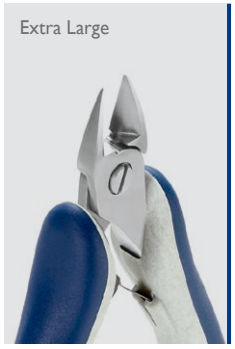


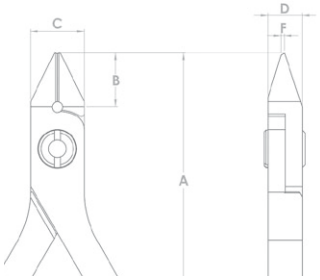



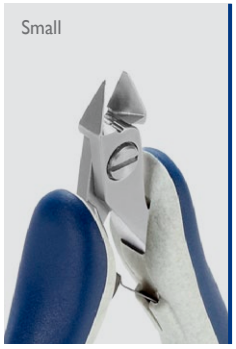



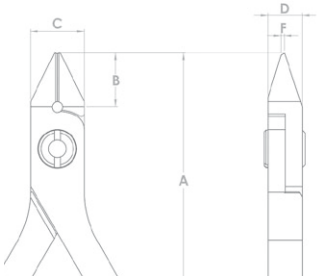



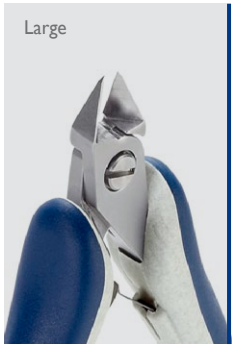

**Small** robust, slim shape, an optimum balance between durability and accessibility **Large** strong and durable, for intensive cutting operations
**Extra Large** very strong and durable, for intensive cutting operations

| | | | | | | | | CUTTING CAPACITY MM/AWG | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Art. No. | Type | A[mm] | B[mm] | C[mm] | D[mm] | F[mm] | Cutting Edges | Soft | Medium | Hard |
| **E5140** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Semi-Flush | 0.2-1.2 / 32-17 | 0.1-1.0 / 38-18 | 0.03-0.6 / 48-23 |
| **E5141** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Flush | 0.1-1.2 / 38-17 | 0.1-1.0 / 38-18 | - |
| **E5142** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Full-Flush | 0.1-1.0 / 38-18 | 0.1-0.8 / 38-20 | - |
| **E5150** | Large | 125 | 12.5 | 12.5 | 6.4 | 0.5 | Semi-Flush | 0.3-1.6 / 29-14 | 0.1-1.3 / 38-16 | 0.03-0.7 / 48-21 |
| **E5151** | Large | 125 | 12.5 | 12.5 | 6.4 | 0.5 | Flush | 0.2-1.6 / 32-14 | 0.1-1.2 / 38-17 | - |
| **E5152** | Large | 125 | 12.5 | 12.5 | 6.4 | 0.5 | Full-Flush | 0.2-1.2 / 32-17 | 0.1-1.0 / 38-18 | - |
| **E5160** | Extra Large | 130 | 14 | 16 | 6.4 | 0.5 | Semi-Flush | 0.4-2.0 / 26-12 | 0.3-1.6 / 29-14 | 0.05-0.9 / 44-19 |
| **E5161** | Extra Large | 130 | 14 | 16 | 6.4 | 0.5 | Flush | 0.3-1.6 / 29-14 | 0.3-1.5 / 29-15 | - |
| **E5162** | Extra Large | 130 | 14 | 16 | 6.4 | 0.5 | Full-Flush | 0.3-1.6 / 29-14 | 0.3-1.1 / 29-17 | - |



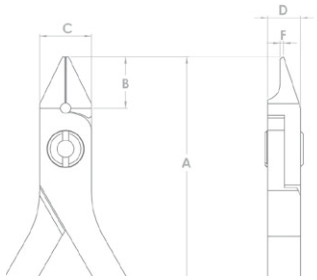



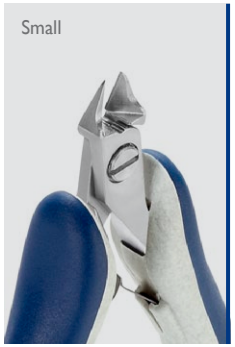




**Small** pointed head shape, slim and optimum balance between durability and accessibility **Large** robust and versatile. pointed head shape to increase accessibility when limited space

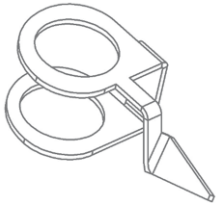
| | | | | | | | | CUTTING CAPACITY MM/AWG | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Art. No. | Type | A[mm] | B[mm] | C[mm] | D[mm] | F[mm] | Cutting Edges | Soft | Medium | Hard |
| **E5340** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Semi-Flush | 0.2-1.2 / 32-17 | 0.1-1.0 / 38-18 | 0.03-0.6 / 48-23 |
| **E5341** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Flush | 0.1-1.2 / 38-17 | 0.1-1.0 / 38-18 | - |
| **E5342** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Full-Flush | 0.1-1.0 / 38-18 | 0.1-0.8 / 38-20 | - |
| **E5350** | Large | 125 | 12.5 | 12.5 | 6.4 | 0.5 | Semi-Flush | 0.3-1.6 / 29-14 | 0.1-1.0 / 38-18 | 0.03-0.7 / 48-21 |
| **E5351** | Large | 125 | 12.5 | 12.5 | 6.4 | 0.5 | Flush | 0.2-1.6 / 32-14 | 0.1-1.2 / 38-17 | - |
| **E5352** | Large | 125 | 12.5 | 12.5 | 6.4 | 0.5 | Full-Flush | 0.2-1.2 / 32-17 | 0.1-1.0 / 38-18 | - |




Pointed head shape and deep relief for a very low profile to maximize accessibility when limited space

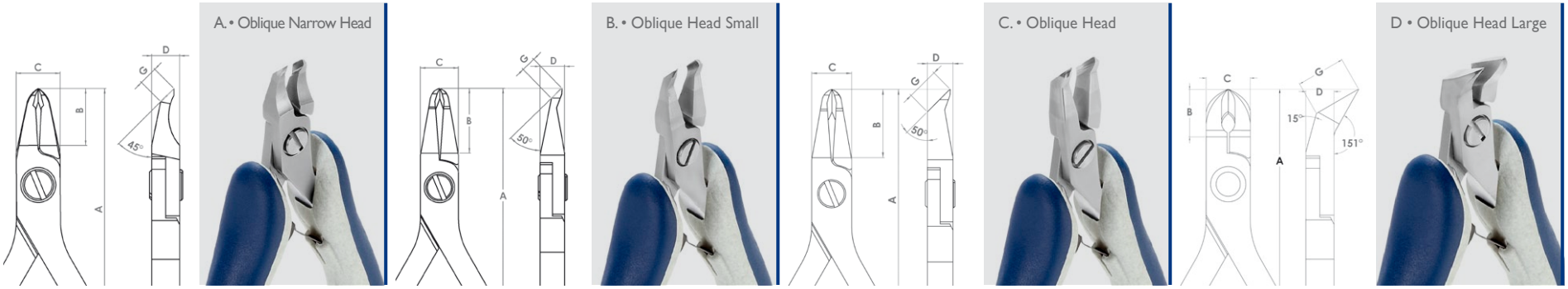
| | | | | | | | | CUTTING CAPACITY MM/AWG | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Art. No. | Type | A[mm] | B[mm] | C[mm] | D[mm] | F[mm] | Cutting Edges | Soft | Medium | Hard |
| **E5540** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Semi-Flush | 0.2-1.2 / 32-17 | 0.1-1.0 / 38-18 | - |
| **E5541** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Flush | 0.1-1.2 / 38-17 | 0.1-0.4 / 38-26 | - |
| **E5542** | Small | 125 | 10 | 10 | 6.4 | 0.5 | Full-Flush | 0.1-0.8 / 38-20 | 0.1-0.4 / 38-26 | - |



Wire Lead Catcher, made of stainless steel AISI 304, for our high precision cutters with 10mm box or 12,5mm box.
**Wire Lead Catcher fits Oval, Tapered and Tapered & Relieved cutters only.**

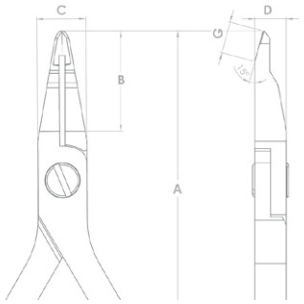
| Art. No. | Type | Description |
|---|---|---|
| **WLC100** | Small | 100 pcs • for cutters with box joint of 10mm |
| **WLC125** | Large | 100 pcs • for cutters with box joint of 12,5mm |

click here to see the plug&play system (VIDEO)

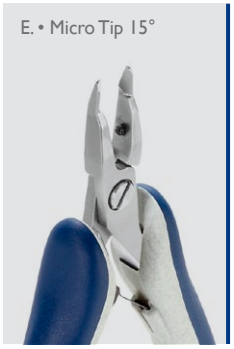


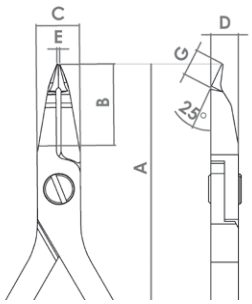

**A. - B. - C.** Angulated cutters to maximize accessibility and visibility when limited space **D.** Angulated and robust

| | | | | | | | | | CUTTING CAPACITY MM/AWG | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Art. No. | Type | A[mm] | B[mm] | C[mm] | D[mm] | F[mm] | G[mm] | Cutting Edges | Soft | Medium | Hard |
| **E5245** | Oblique Narrow Head | 130 | 13 | 10 | 6.4 | - | 4 | Full-Flush | 0.1-1.2 / 38-17 | 0.1-1.0 / 38-18 | - |
| **E5246** | Oblique Head Small | 130 | 17 | 10 | 6.4 | - | 4 | Flush | 0.1-1.2 / 38-17 | 0.1-0.4 / 38-26 | - |
| **E5247** | Oblique Head | 130 | 17 | 10 | 6.4 | - | 8 | Flush | 0.1-1.2 / 38-17 | 0.1-0.6 / 38-23 | - |
| **E5250** | Oblique Head Large | 130 | 14.5 | 10 | 6.4 | - | 11 | Flush | 0.2-1.2 / 32-17 | 0.1-1.0 / 38-18 | - |

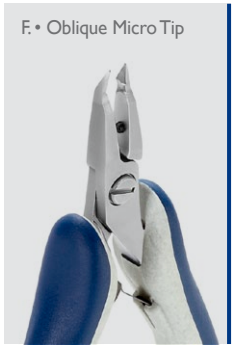


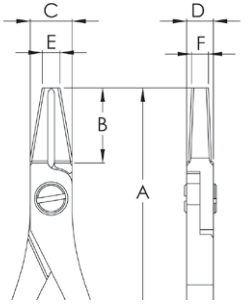

E. • Micro Tip 15°



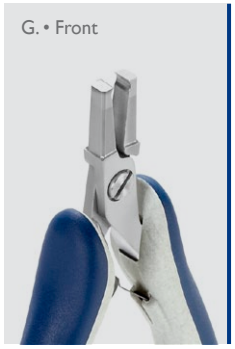



F. • Oblique Micro Tip



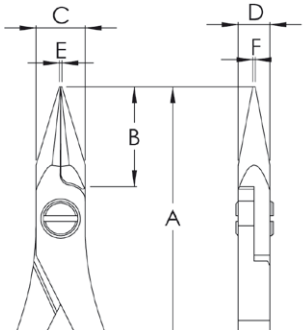


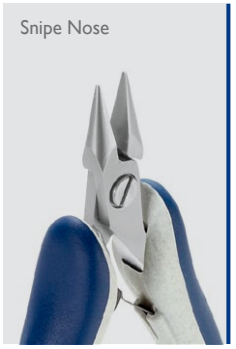

G. • Front

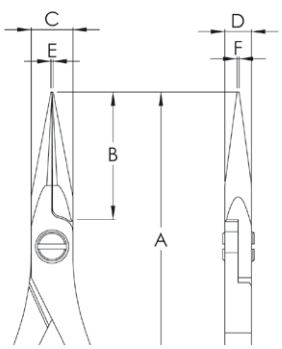


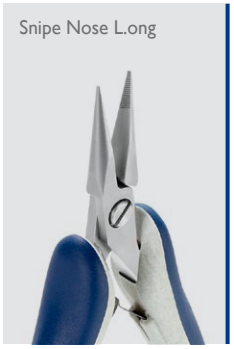
**E. - F.** long, narrow jaws. Sharp edges for cutting at the very tip. Deep relief for an exceptionally low profile **G.** tip cutters for vertical tip cutting

| | | | | | | | | | | CUTTING CAPACITY MM/AWG | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Art. No. | Type | A[mm] | B[mm] | C[mm] | D[mm] | E[mm] | F[mm] | G[mm] | Cutting Edges | Soft | Medium | Hard |
| **E5233** | Micro Tip 15° | 135 | 20 | 10 | 6.4 | - | - | 7 | Full-Flush | 0.1-0.8 / 38-20 | 0.1-0.6 / 38-23 | - |
| **E5234** | Oblique Micro Tip | 135 | 20 | 10 | 6.4 | 0.5 | - | 6 | Full-Flush | 0.1-0.8 / 38-20 | 0.1-0.6 / 38-23 | - |
| **E5291** | Front Cutters | 135 | 18 | 10 | 6.4 | 4.2 | 4 | - | Flush | 0.1-1.2 / 38-17 | 0.1-0.8 / 38-20 | - |



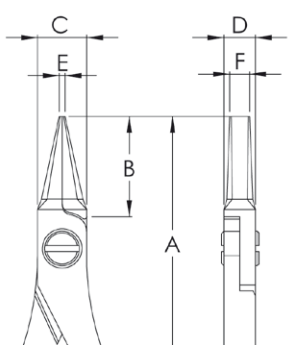



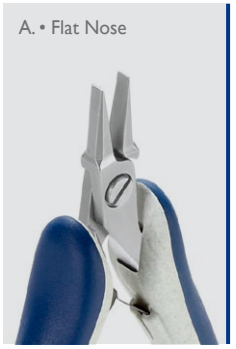



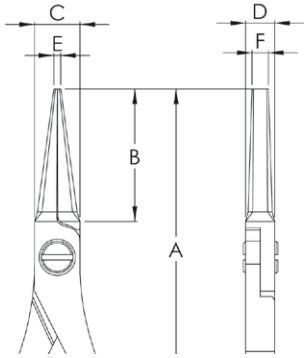



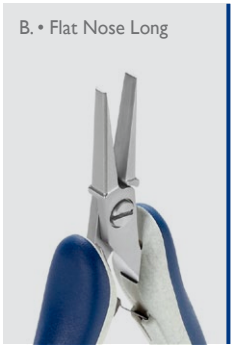

Commonly used in electronic assembly and rework, as well as in fine jewellery

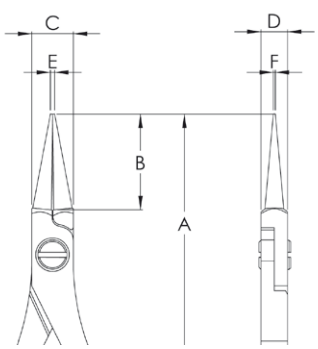
| Art. No. | Type | A [mm] | B [mm] | C [mm] | D[mm] | E[mm] | F[mm] | Jaw Shape |
|---|---|---|---|---|---|---|---|---|
| **E6021** | Snipe Nose | 135 | 20 | 10 | 6.4 | 1 | 0.5 | Smooth |
| **E6022** | Snipe Nose | 135 | 20 | 10 | 6.4 | 1 | 0.5 | Serrated |
| **E6023** | Snipe Nose Long | 145 | 30 | 10 | 6.4 | 1 | 0.5 | Smooth |
| **E6024** | Snipe Nose Long | 145 | 30 | 10 | 6.4 | 1 | 0.5 | Serrated |

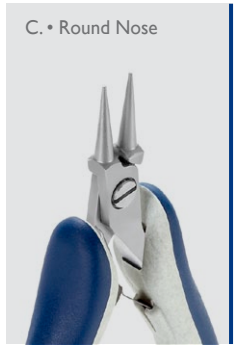



**A. - B.** flat nose pliers feature a very fine tip, smooth or serrated jaws and inner edges **C.** round nose pliers have jaws formed by two cones. A round nose pliers is generally used both to clamp and to form loops on leads or wire.

| Art. No. | Type | A [mm] | B [mm] | C [mm] | D[mm] | E[mm] | F[mm] | Jaw Shape |
|---|---|---|---|---|---|---|---|---|
| **E6011** | Flat Nose | 135 | 20 | 10 | 6.4 | 1.2 | 4.0 | Smooth |
| **E6012** | Flat Nose | 135 | 20 | 10 | 6.4 | 1.2 | 4.0 | Serrated |
| **E6013** | Flat Nose Long | 145 | 30 | 10 | 6.4 | 1.5 | 3.6 | Smooth |
| **E6014** | Flat Nose Long | 145 | 30 | 10 | 6.4 | 1.5 | 3.6 | Serrated |
| **E6041** | Round Nose | 140 | 24 | 10 | 6.4 | 1.0 | 0.5 | Smooth |

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