



idealt-tek s.a.

Technology at your fingertips.

swiss made 

manufacturer of high precision tools and instruments



High quality ball bearing steel

63 - 65 Rockwell Hardness (HRC):  
Pyrometer controlled inductive hardening

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





2-Component ESD Ergonomic handles,  
soft comfortable gripping surface,  
hard plastic core.

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

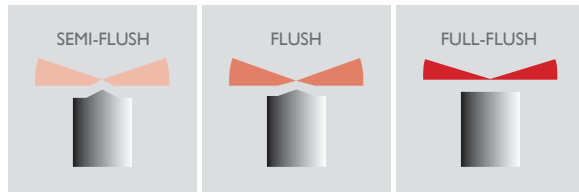
- point to point resistance
- surface resistance
- decay time analysis







## 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





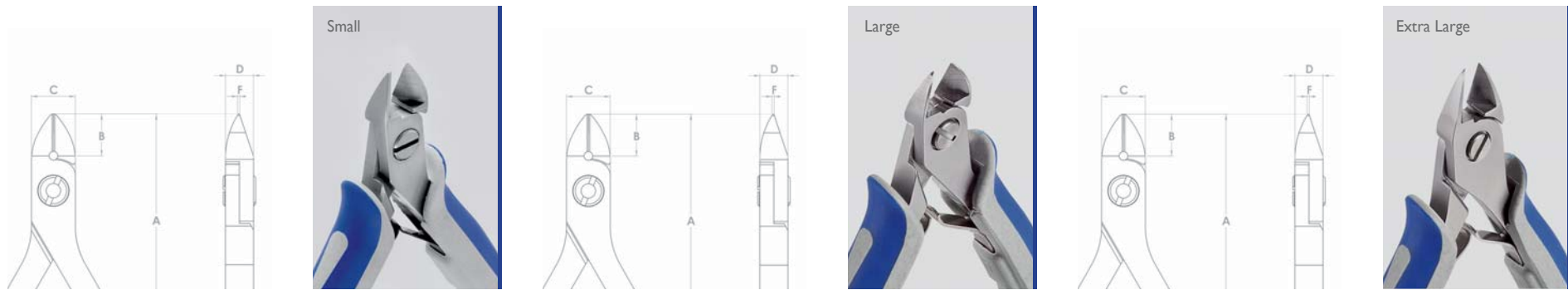
## CUTTERS

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

## PLIERS

- Snipe Nose
- Flat & Round Nose



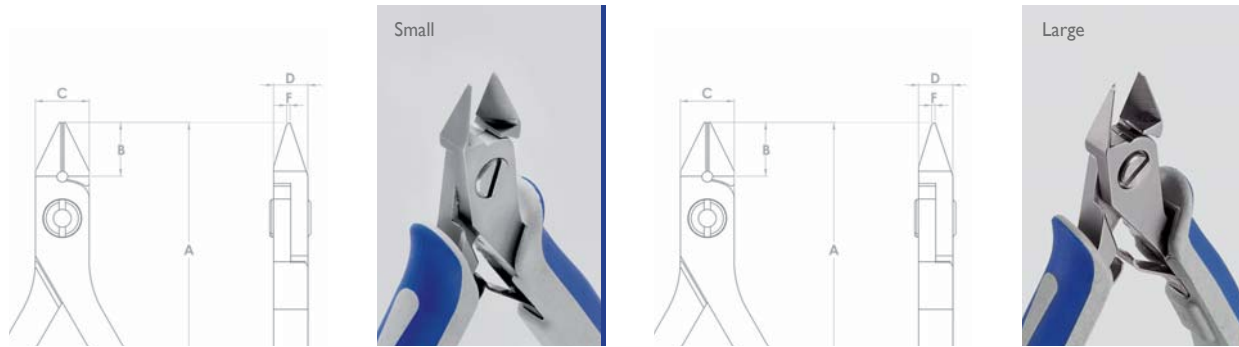


**Small** robust, slim shape, an optimum balance between durability and accessibility **Large** strong and durable, for intensive cutting operations  
**Extra Large** very strong and durable, for intensive cutting operations

Art. No.	Type	A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Cutting Edges	CUTTING CAPACITY MM/AWG		
								Soft	Medium	Hard
<b>5140</b>	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
<b>5141</b>	Small	125	10	10	6.4	0.5	Flush	0.1-1.2 / 38-17	0.1-1.0 / 38-18	-
<b>5142</b>	Small	125	10	10	6.4	0.5	Full-Flush	0.1-1.0 / 38-18	0.1-0.8 / 38-20	-
<b>5150</b>	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
<b>5151</b>	Large	125	12.5	12.5	6.4	0.5	Flush	0.2-1.6 / 32-14	0.1-1.2 / 38-17	-
<b>5152</b>	Large	125	12.5	12.5	6.4	0.5	Full-Flush	0.2-1.2 / 32-17	0.1-1.0 / 38-18	-
<b>5160</b>	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
<b>5161</b>	Extra Large	130	14	16	6.4	0.5	Flush	0.3-1.6 / 29-14	0.3-1.5 / 29-15	-
<b>5162</b>	Extra Large	130	14	16	6.4	0.5	Full-Flush	0.3-1.6 / 29-14	0.3-1.1 / 29-17	-



# TAPERED | CUTTERS LINE

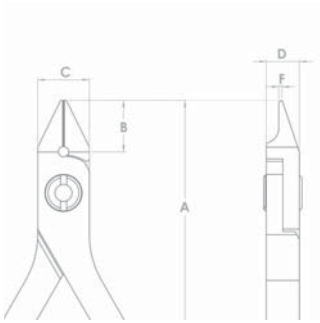


**Small** pointed head shape, slim and optimum balance between durability and accessibility **Large** robust and versatile, pointed head shape to increase accessibility when limited space

Art. No.	Type	A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Cutting Edges	CUTTING CAPACITY MM/AWG		
								Soft	Medium	Hard
<b>5340</b>	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
<b>5341</b>	Small	125	10	10	6.4	0.5	Flush	0.1-1.2 / 38-17	0.1-1.0 / 38-18	-
<b>5342</b>	Small	125	10	10	6.4	0.5	Full-Flush	0.1-1.0 / 38-18	0.1-0.8 / 38-20	-
<b>5350</b>	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
<b>5351</b>	Large	125	12.5	12.5	6.4	0.5	Flush	0.2-1.6 / 32-14	0.1-1.2 / 38-17	-
<b>5352</b>	Large	125	12.5	12.5	6.4	0.5	Full-Flush	0.2-1.2 / 32-17	0.1-1.0 / 38-18	-



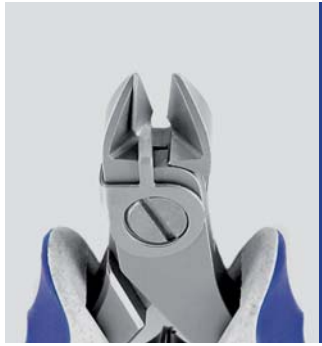
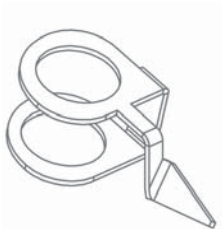
# TAPERED & RELIEVED | CUTTERS LINE



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

Art. No.	Type	A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	Cutting Edges	CUTTING CAPACITY MM/AWG		
								Soft	Medium	Hard
<b>5540</b>	Small	125	10	10	6.4	0.5	Semi-Flush	0.2-1.2 / 32-17	0.1-1.0 / 38-18	-
<b>5541</b>	Small	125	10	10	6.4	0.5	Flush	0.1-1.2 / 38-17	0.1-0.4 / 38-26	-
<b>5542</b>	Small	125	10	10	6.4	0.5	Full-Flush	0.1-0.8 / 38-20	0.1-0.4 / 38-26	-





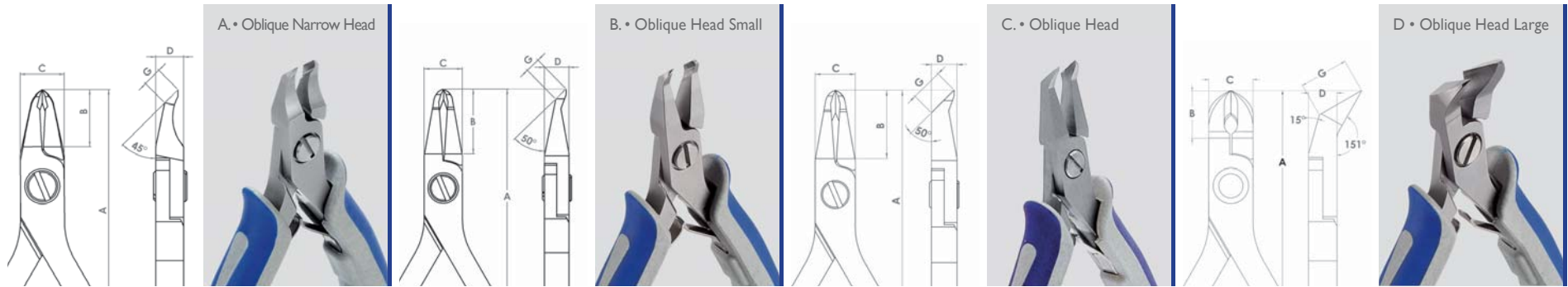
Wire Lead Catcher, made of stainless steel AISI 304, for our high precision cutters with 10mm box or 12,5mm box.  
**Wire Lead Catcher fits Oval, Tapered and Tapered & Relieved cutters only.**

Art. No.	Type	Description
<b>WLC100</b>	Small	100 pcs • for cutters with box joint of 10mm
<b>WLC125</b>	Large	100 pcs • for cutters with box joint of 12,5mm

UNIQUE PLUG&PLAY SYSTEM (VIDEO): <http://www.youtube.com/watch?v=7KhIcrcyIPQ>



# SPECIAL | CUTTERS LINE

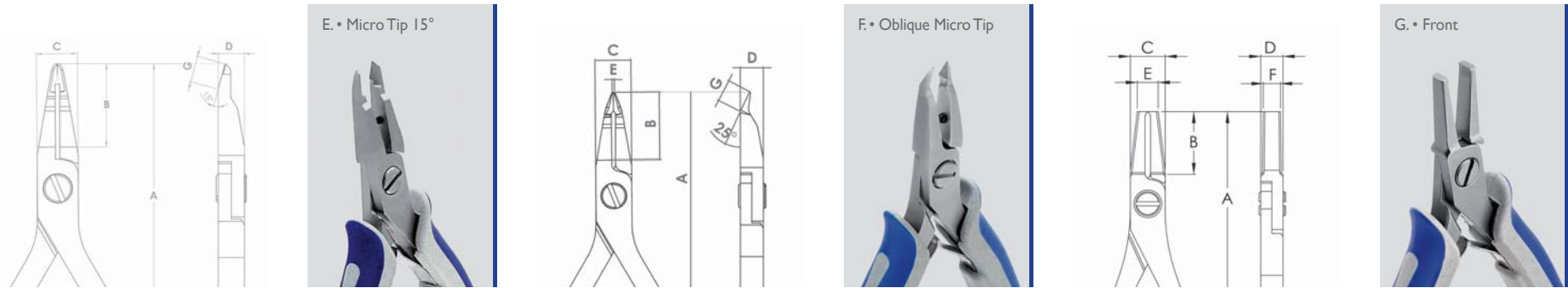


**A. - B. - C.** Angulated cutters to maximize accessibility and visibility when limited space **D.** Angulated and robust

Art. No.	Type	A[mm]	B[mm]	C[mm]	D[mm]	F[mm]	G[mm]	Cutting Edges	CUTTING CAPACITY MM/AWG		
									Soft	Medium	Hard
<b>5245</b>	Oblique Narrow Head	130	13	10	6.4	-	4	Full-Flush	0.1-1.2 / 38-17	0.1-1.0 / 38-18	-
<b>5246</b>	Oblique Head Small	130	17	10	6.4	-	4	Flush	0.1-1.2 / 38-17	0.1-0.4 / 38-26	-
<b>5247</b>	Oblique Head	130	17	10	6.4	-	8	Flush	0.1-1.2 / 38-17	0.1-0.6 / 38-23	-
<b>5250</b>	Oblique Head Large	130	14.5	10	6.4	-	11	Flush	0.2-1.2 / 32-17	0.1-1.0 / 38-18	-

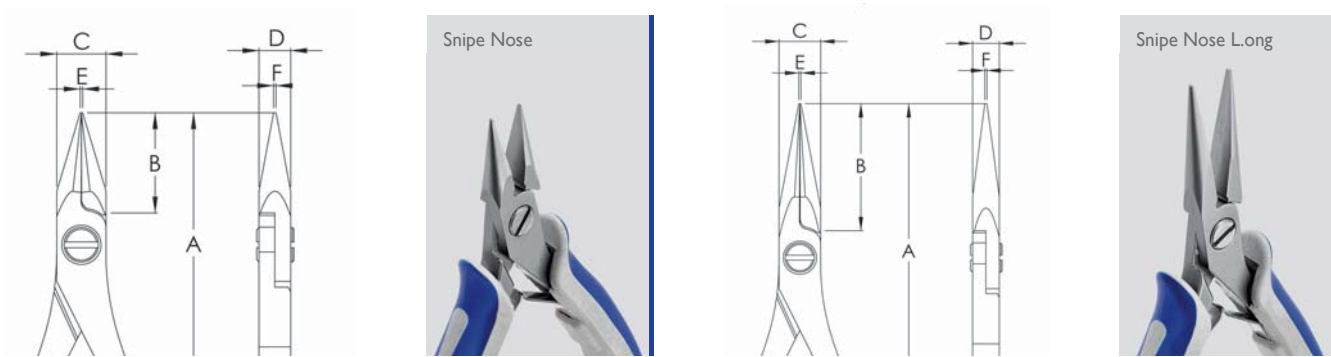


# SPECIAL | CUTTERS LINE



**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

Art. No.	Type	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	G[mm]	Cutting Edges	CUTTING CAPACITY MM/AWG		
										Soft	Medium	Hard
<b>5233</b>	Micro Tip 15°	135	20	10	6.4	-	-	7	Full-Flush	0.1-0.8 / 38-20	0.1-0.6 / 38-23	-
<b>5234</b>	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	-
<b>5291</b>	Front Cutters	135	20	10	6.4	6	5	-	Flush	0.1-1.2 / 38-17	0.1-0.8 / 38-20	-

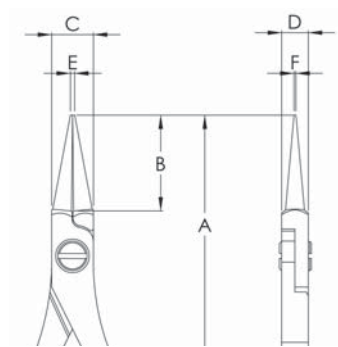
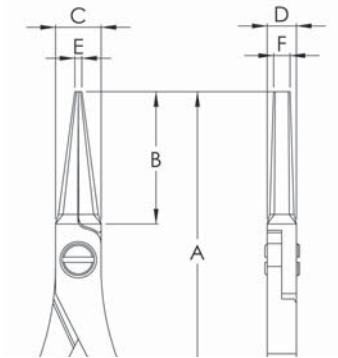
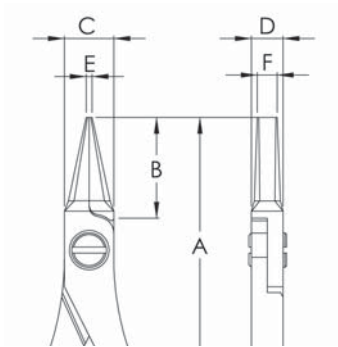


Commonly used in electronic assembly and rework, as well as in fine jewellery

Art. No.	Type	A [mm]	B [mm]	C [mm]	D[mm]	E[mm]	F[mm]	Jaw Shape
<b>6021</b>	Snipe Nose	135	20	10	6.4	0.5	0.5	Smooth
<b>6022</b>	Snipe Nose	135	20	10	6.4	0.5	0.5	Serrated
<b>6023</b>	Snipe Nose Long	145	30	10	6.4	0.5	0.5	Smooth
<b>6024</b>	Snipe Nose Long	145	30	10	6.4	0.5	0.5	Serrated



# FLAT & ROUND NOSE | PLIERS LINE



**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
<b>6011</b>	Flat Nose	135	20	10	6.4	1.2	4.0	Smooth
<b>6012</b>	Flat Nose	135	20	10	6.4	1.2	4.0	Serrated
<b>6013</b>	Flat Nose Long	145	30	10	6.4	1.5	3.6	Smooth
<b>6014</b>	Flat Nose Long	145	30	10	6.4	1.5	3.6	Serrated
<b>6041</b>	Round Nose	140	24	10	6.4	1.0	0.5	Smooth





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.



MAINTENANCE (VIDEO): <http://youtu.be/oAjqh3J0ew>



**Mail address**

Ideal-Tek SA · p.o. box 221  
6830 Chiasso 3 · Switzerland

**Shipping address**

Ideal-Tek SA · via Monti 10  
6828 Balerna · Switzerland

**Phone** +41 91 683 32 29

**Fax** +41 91 683 03 71

**E-mail** [info@ideal-tek.com](mailto:info@ideal-tek.com)



 ideal-tek s.a.