






























# Special tools - summary

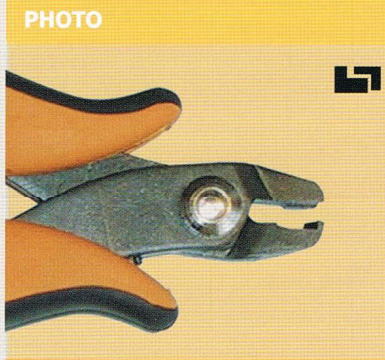
Tip	Order code	length mm	cutting force kg	copper wire		Notes
				Ø mm	awg	
	TS 30	138	9	1.02	18	cutting and pressing tool
	TP 30	138	3	1.02	18	cutting and bending tool
	TP 5000/15	147	3	1.02	18	it cuts and bends the component lead in one operation, fixing it to the circuit board
	PNR 30	145	3	1.02	18	C type pre-forming tool
	PNG 5000	150	3	1.02	18	C type pre-forming tool
	PNR 5000	150	3	1.02	18	cutting and C type pre-forming tool
	PTR 30 C	150	3	1.02	18	cutting and C type pre-forming tool
	PTR 30 L	150	3	1.02	18	cutting and L type pre-forming tool
	PPR 5001	150	3	0.6-0.8	22-20	U type pre-forming tool
	PPR 5002	150	3	0.6-0.8	22-20	U type pre-forming tool
	PPR 5003	150	3	0.6-0.8	22-20	U type pre-forming tool
	PNI 5000	150	3	0.8	20	cutting and pre-forming tool for small ICs
	PNI 5015	155	5	0.64	22	cut at 1.5mm height from the surface of a leads row
	PN 5040	150	3	1.30	16	90°pre-forming tool
	PN 5050	155	3	1.30	16	pre-forming of centre lead of TO 220, 3.81mm pitch
	PN 5050/14	158	3	1.30	16	pre-forming of centre lead of TO 220, 3.0mm pitch
	PN 5050/15	158	3	1.30	16	pre-forming of centre lead of TO 220, 2.5mm pitch
	PN 5050/3	158	3	1.30	16	pre-forming of centre lead of TO247, 5.08mm pitch
	PN 5050/4	158	3	1.30	16	pre-forming of side leads of TO 247, 5.08mm pitch
	PN 5050/10	158	3	1.30	16	pre-forming of side leads of TO 220, 2.5mm pitch
	PN 5050/6	155	3	1.30	16	pre-forming of TO 220 at 90° leaving longer the central lead
	PN 5050/7	155	3	1.30	16	pre-forming of TO 220 at 90° leaving longer later leads
	PN 5050/21	155	3	1.30	16	pre-forming of TO 220 at 90° leaving the 1-3-5 leads shorter of 2 - 4 leads
	PN 5050/37	158	3	1.30	16	pre-forming of TO 220 at 90° leaving the 2-4 leads shorter of 1- 3 - 5 leads
	PN 5050/36	158	3	1.30	16	pre-forming of TO 220 2 - 4 leads, 3 mm pitch
	PN 5050/38	158	3	1.30	16	pre-forming of TO 220 1-3-5 leads, 3 mm pitch
	P1	155	-	-	-	tool for application of straight seegers
	P2	155	-	-	-	tool for application of straight seegers
	PP1	150	-	-	-	90°tool for application of straight seegers



special tools

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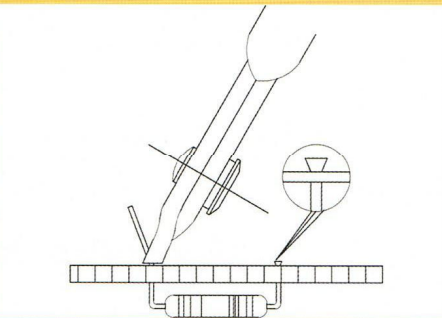


PHOTO

**TS 30**  
 A special tool that cuts and presses the component wire against the PCB in one operation.  
 Thickness 3mm.  
 Dissipative version available.

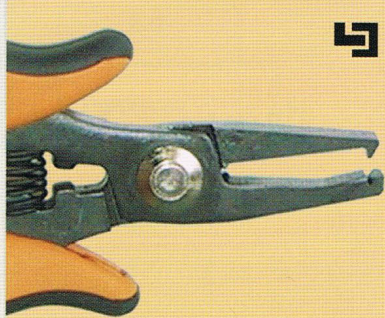
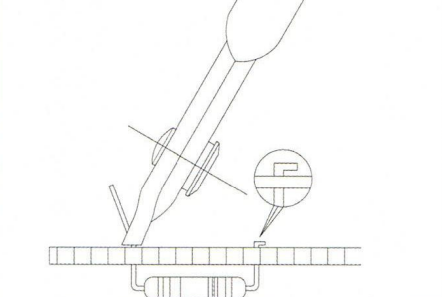
cutting force kg	copper wire Ø mm	copper wire awg
9	1.02	18

TECHNICAL SPECIFICATIONS



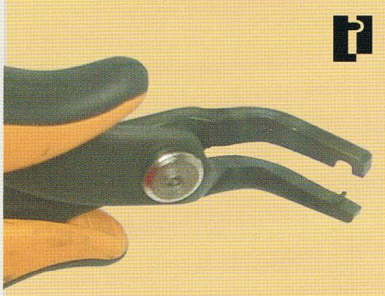
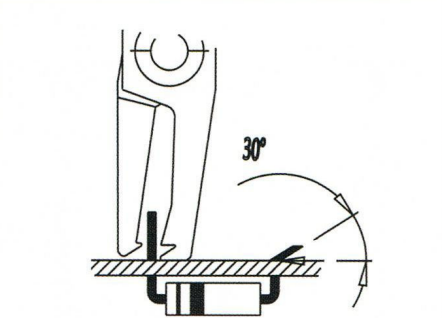
**TP 30**  
 A special tool that cuts and bends the component wire against the PCB in one operation.  
 Thickness 3mm.  
 Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.02	18



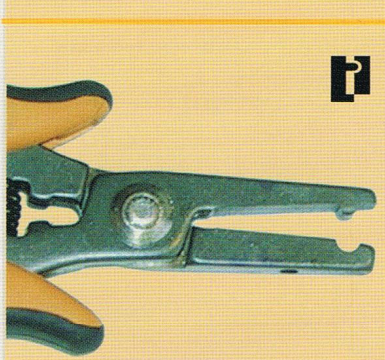
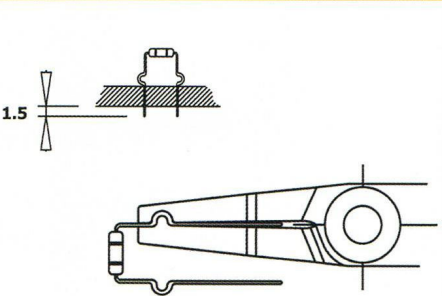
**TP 5000/15**  
 Specially designed tool for end cutting, suitable for access in dense areas of PCBs. It cuts and bends the component lead in one operation, fixing it to the circuit board.  
 Thickness 5mm.  
 Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.02	18



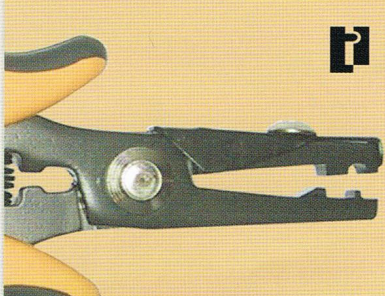
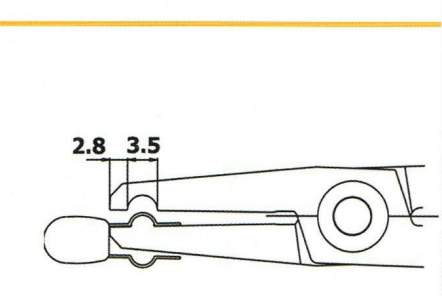
**PNR 30**  
 A specially designed forming tool that C shapes the component wire. Bent at 45°.  
 Thickness 3mm.  
 Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.02	18



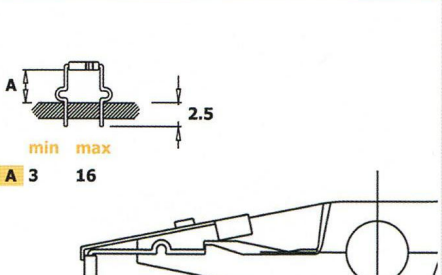
**PNG 5000**  
 Specially designed tool for the forming of components in a C shape. Its special radius enables components to be pre-formed without any stress.  
 Thickness 5mm.  
 Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.02	18



**PNR 5000**  
 A special tool that cuts and forms the component wire in one operation. Length setting is carried out by means of a sliding stop (A min 3 max 16).  
 Thickness 5mm.  
 Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.02	18

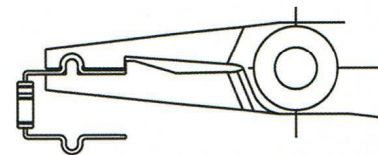
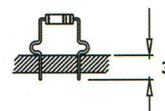




**PTR 30 C**

It forms the component wire in a C shape and cuts off the residual part.  
Thickness 3mm.  
Dissipative version available.

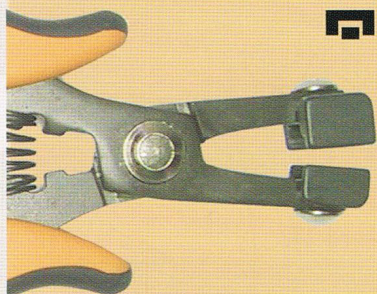
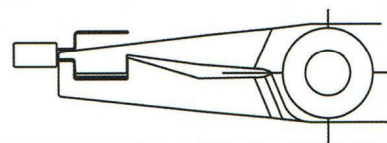
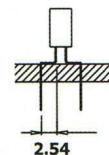
cutting force kg	copper wire Ø mm	copper wire awg
3	1.02	18



**PTR 30 L**

It forms the component wire in a L shape and cuts off the residual part .  
Thickness 3mm.  
Dissipative version available.

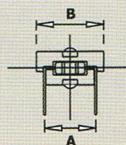
cutting force kg	copper wire Ø mm	copper wire awg
3	1.02	18



**PPR 5001**

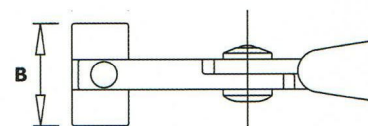
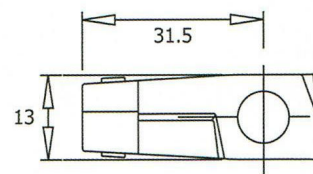
Pre-forms the component wire in a U shape

A=10.16  
B=15



cutting force kg	copper wire Ø mm	copper wire awg
3	0.6-0.8	22-20

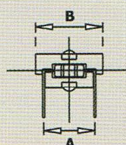
Dissipative version available.



**PPR 5002**

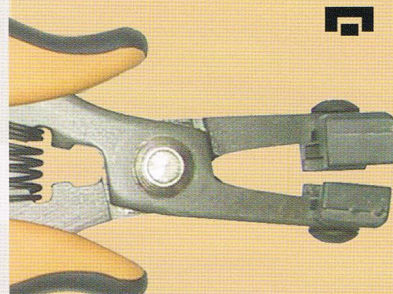
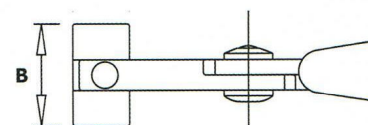
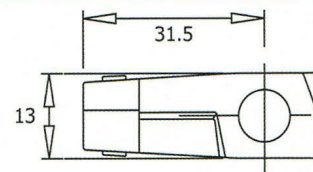
Pre-forms the component wire in a U shape

A=12.70  
B=18



cutting force kg	copper wire Ø mm	copper wire awg
3	0.6-0.8	22-20

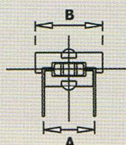
Dissipative version available.



**PPR 5003**

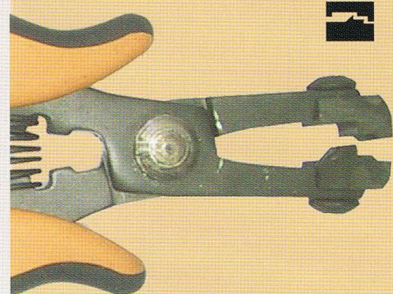
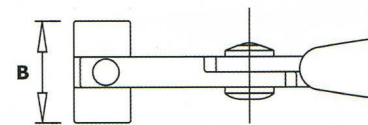
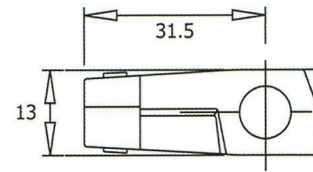
Pre-forms the component wire in a U shape

A=15.24  
B=20



cutting force kg	copper wire Ø mm	copper wire awg
3	0.6-0.8	22-20

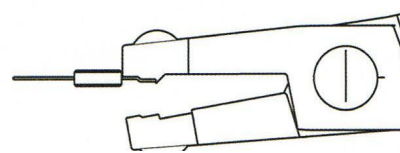
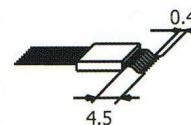
Dissipative version available.

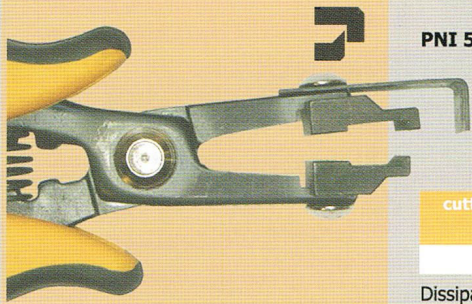


**PNI 5000**

Specially designed tool for pre-forming and cutting of IC pins in one operation.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	0.80	20

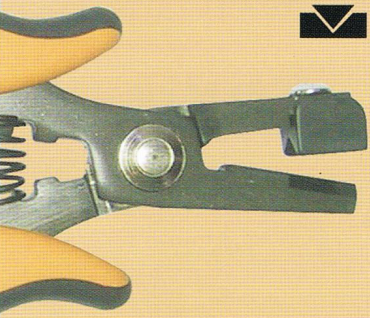
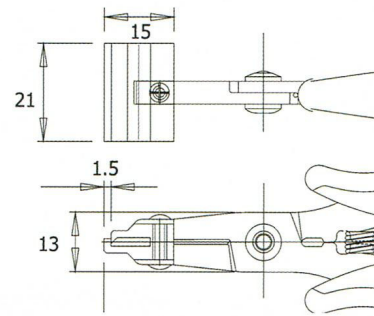


**PNI 5015**

Specially designed tool for a clean and flush cut at 1.5mm height from the surface of a pins line.  
It is possible to adjust the distance by a sliding foil (min. 1,5 – max. 10 mm).

cutting force kg	copper wire Ø mm	copper wire awg
5	0.64	22

Dissipative version available.

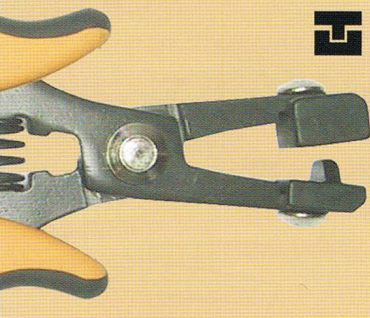
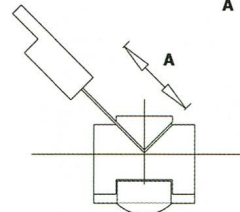
**PN 5040**

Pre-forms the component wire at a 90° angle.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16

Dissipative version available.

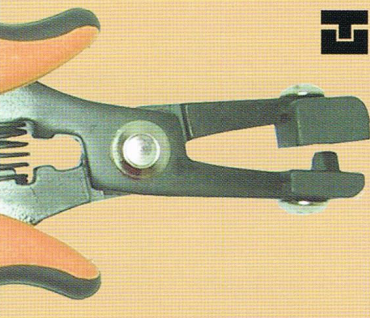
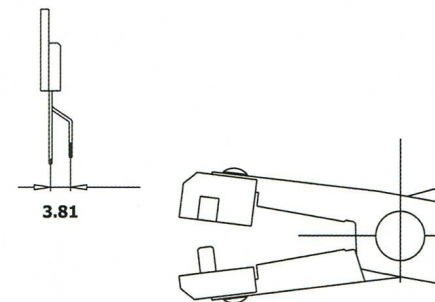
	Min	Degrees
A	5	90°

**PN 5050**

Specially designed tool for the pre-forming of central lead of TO 220 with 3.81mm pitch. Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16

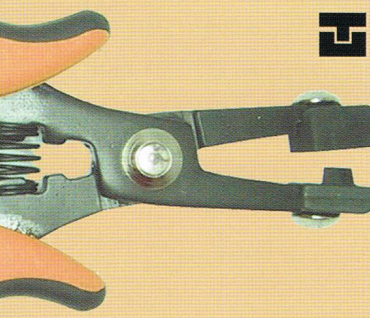
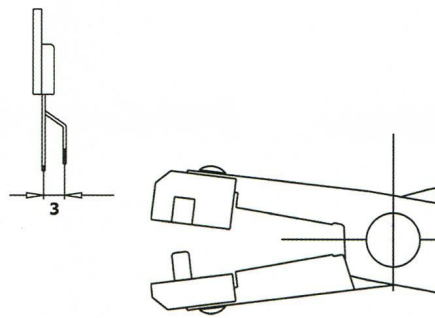
Dissipative version available.

**PN 5050/14**

Specially designed tool for the forming of centre lead of TO 220 with 3.0 mm pitch.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16

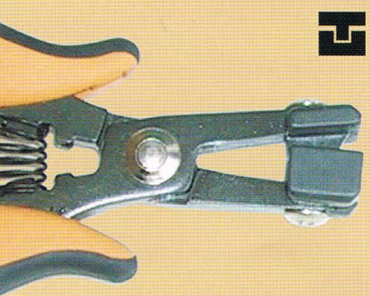
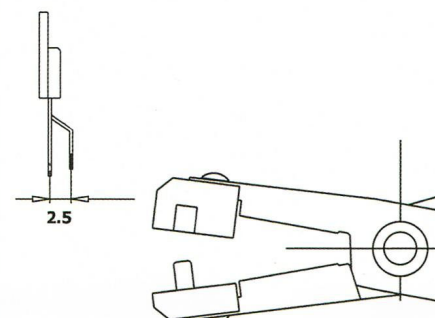
Dissipative version available.

**PN 5050/15**

Specially designed tool for the forming of centre lead of TO 220 with 2.5mm pitch.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16

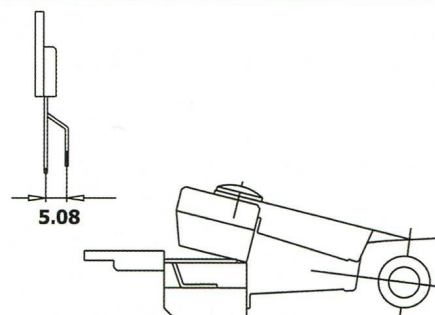
Dissipative version available.

**PN 5050/3**

Specially designed tool for the forming of centre lead of TO 247 and TO 220 with 5.08mm pitch.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16

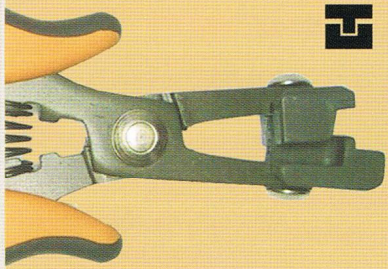
Dissipative version available.



PHOTO

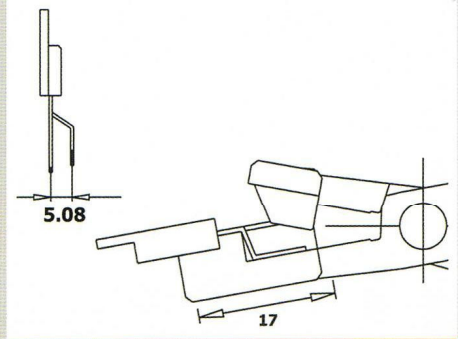
NOTES

TECHNICAL SPECIFICATIONS



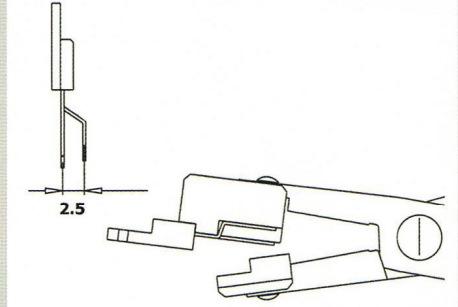
**PN 5050/4**  
Special tool for the forming of side leads of TO 247 with 5.08mm pitch.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16



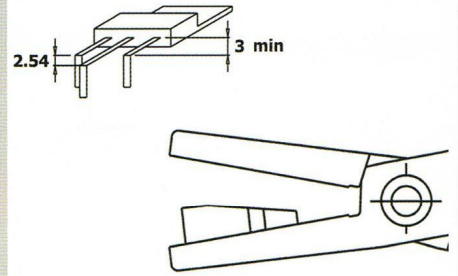
**PN 5050/10**  
Special tool for the forming of side leads of TO 220 with 2.5mm pitch.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16



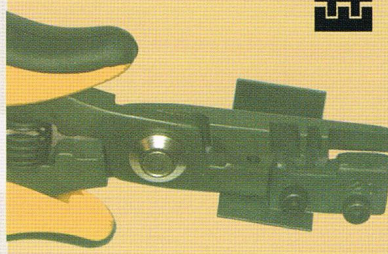
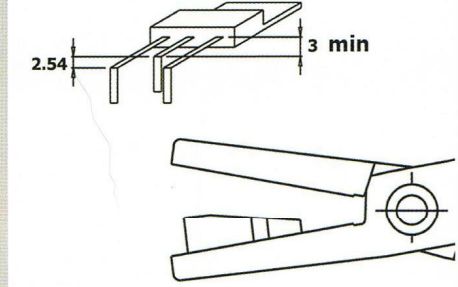
**PN 5050/6**  
Special tool that enables TO220 component leads to be bent at a 90°angle in a single operation, in such a way that the centre lead will be 2.54mm longer than the side leads.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16



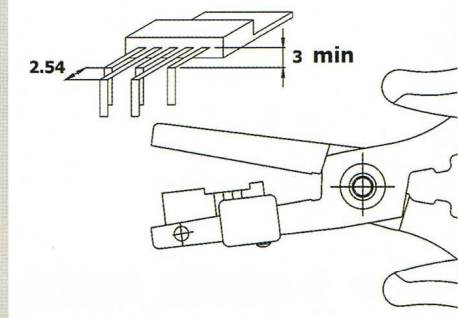
**PN 5050/7**  
Special tool that enables TO220 component leads to be bent at a 90°angle in a single operation, in such a way that the centre lead will be 2.54mm shorter than the side leads.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16



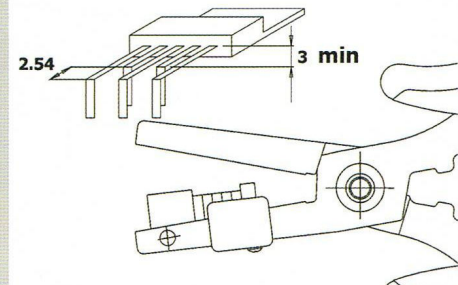
**PN 5050/21**  
Special tool that enables TO220 component leads (5 leads) to be bent at a 90°angle in a single operation, in such a way that 1- 3 - 5 leads will be 2.54 mm shorter than 2 - 4 leads.  
Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16



**PN 5050/37**  
Special tool that enables TO220 component leads (5 leads) to be bent at a 90°angle in a single operation, in such a way that 2 - 4 leads will be 2.54 mm shorter than 1- 3 - 5 leads.  
Dissipative version available.

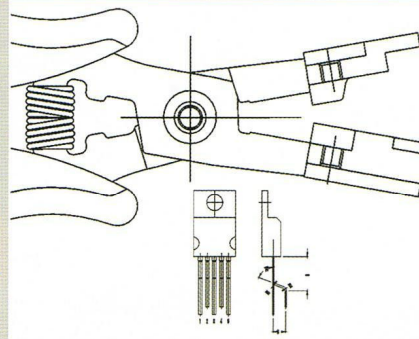
cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16



**PN 5050/36**

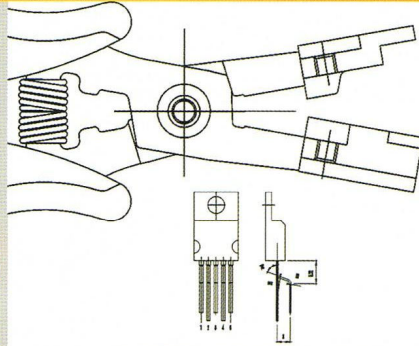
Special tool for the forming of TO220 (5 leads). It forms leads 2-4, 3mm pitch. Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16

**PN 5050/38**

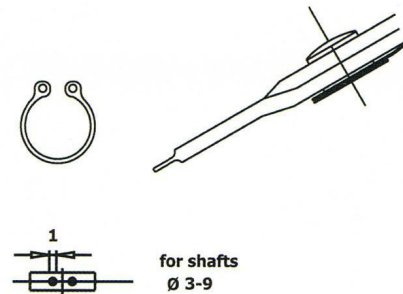
Special tool for the forming of TO220 (5 leads). It forms leads 1-3-5, 3mm pitch. Dissipative version available.

cutting force kg	copper wire Ø mm	copper wire awg
3	1.30	16

**P1**

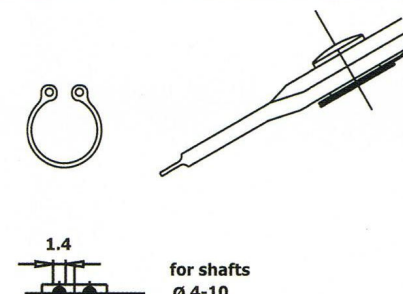
Tool for the application and removal of circlips and seeger rings from shafts. Thickness 2.5mm. Dissipative version available.

cutting force kg	weight	length
-	81	155

**P2**

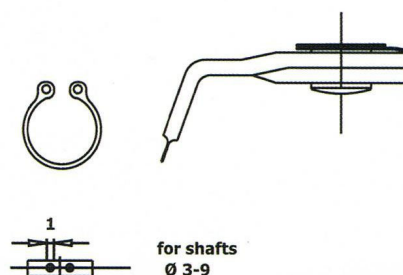
Tool for the application and removal of circlips and seeger rings from shafts. Thickness 2.5mm. Dissipative version available.

cutting force kg	weight	length
-	81	155

**PP1**

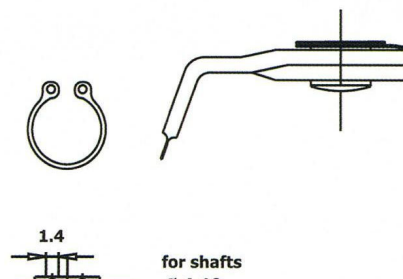
Tool with 90°angled nose for the application and removal of circlips and seeger rings from shafts. Thickness 2.5mm. Dissipative version available.

cutting force kg	weight	length
-	83	150

**PP2**

Tool with 90°angled nose for the application and removal of circlips and seeger rings from shafts. Thickness 2.5mm. Dissipative version available.

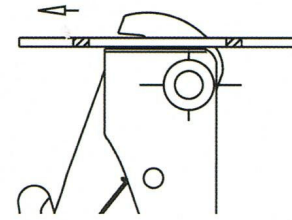
cutting force kg	weight	length
-	83	150



**DP 15 N**

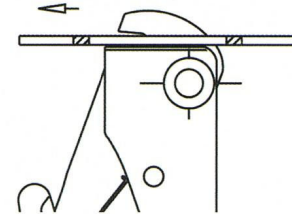
A manual depaneling tool designed for separating PCB in a quick, economic and safe way, leaving well finished cut surfaces; maximum length of the isthmus 2.5 mm. Dissipative version available.

cutting force kg	cutting blade thickness mm
3	1.5

**DP 18 N**

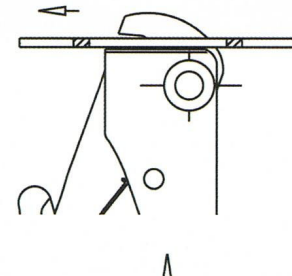
A manual depaneling tool designed for separating PCB in a quick, economic and safe way, leaving well finished cut surfaces; maximum length of the isthmus 2.5 mm. Dissipative version available.

cutting force kg	cutting blade thickness mm
3	1.8

**DP 20 N**

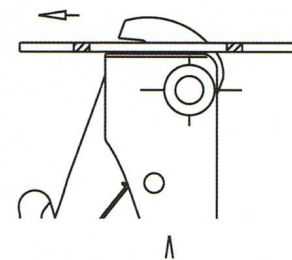
A manual depaneling tool designed for separating PCB in a quick, economic and safe way, leaving well finished cut surfaces; maximum length of the isthmus 2.5 mm. Dissipative version available.

cutting force kg	cutting blade thickness mm
3	2.0

**DP 23 N**

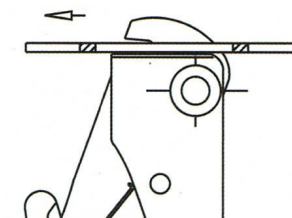
A manual depaneling tool designed for separating PCB in a quick, economic and safe way, leaving well finished cut surfaces; maximum length of the isthmus 2.5 mm. Dissipative version available.

cutting force kg	cutting blade thickness mm
7	2.3

**DP 24 N**

A manual depaneling tool designed for separating PCB in a quick, economic and safe way, leaving well finished cut surfaces; maximum length of the isthmus 2.5 mm. Dissipative version available.

cutting force kg	cutting blade thickness mm
7	2.4

**DP 25 N**

A manual depaneling tool designed for separating PCB in a quick, economic and safe way, leaving well finished cut surfaces; maximum length of the isthmus 2.5 mm. Dissipative version available.

cutting force kg	cutting blade thickness mm
7	2.5

