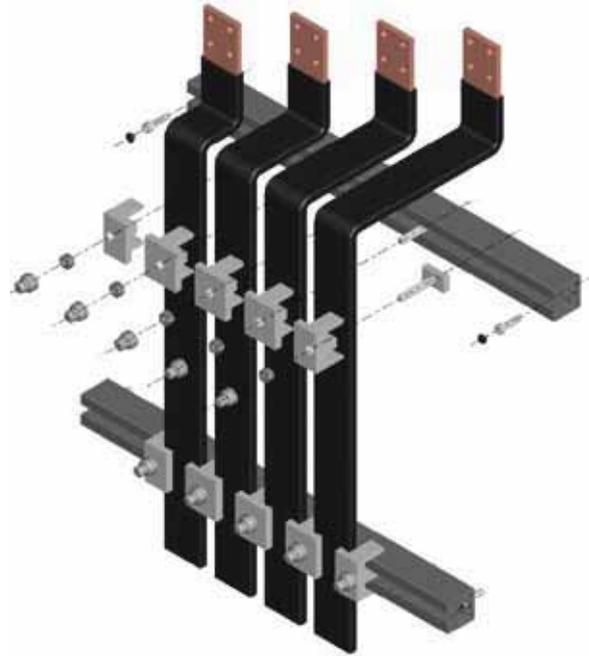Ω FLEX

Universal support with Ω FLAT

Made of:
- PVC support rail in 2-meter bars
- L-shaped anchoring block with adjustable spacing between phases
- T-shaped anchoring block with minimum allowed spacing between phases
- **for flexible bars from 2x24x1 up to 10x120x1**

- **adjustable distance between phases using the "L" block**
  minimum air distance between various phases equal to 40 mm using two opposed "L" blocks
- **fixed distance between phases using the "T" block**
  minimum air distance between various phases equal to 20 mm

See also Ω FLAT technical features on page 26

ADVANTAGES
- for flexible insulated bar cross-sections starting from 2x24x1
- support completely made of insulating material
- PVC rail easy to cut at the desired length
- quick fitting to the panel board structure by means of hex socket head cap screws M6
- high resistance to short-circuits

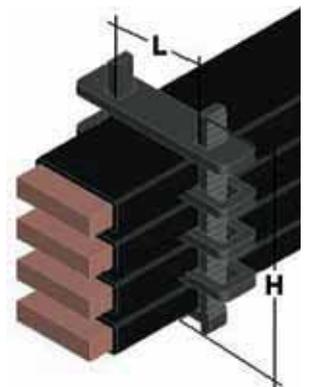| Code	Reference	Description	📦
FLT1000	FLT PR2000	PVC Rail, length 2 meters	2
FLT1005	FLT BL-L	Kit of 6 L-shaped blocks in PA 6/6 complete with screws	1
FLT1010	FLT BL-T	Kit of 6 T-shaped blocks in PA 6/6 complete with screws	1

Simple support with spacer

Spacer and overlapping support
In Polyamide 6/6 reinforced with 30% fiberglass
Self-extinguishing UL 94-V0
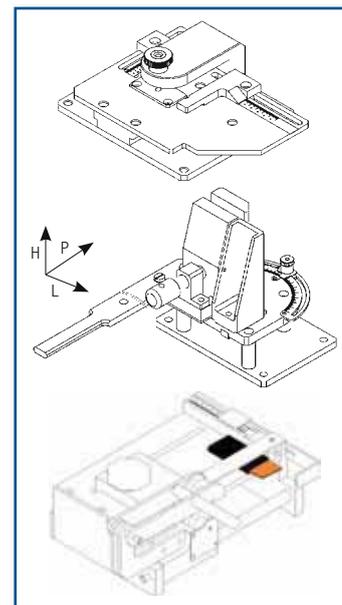Black color

APPLICATIONS and ADVANTAGES
- for insulated flexible bars up to 32x10x1
- possibility to fit up to 4 flexible bars
- fitting to the panel board structure by means of screw (not included) to insert at the spacer base
- accurate and ordered fitting inside the panel board
- excellent heat dissipation thanks to the correct spacing between bars

Code	Reference	Description	Max sect Ω Flex	H (mm)	L (mm)	📦
DZP3000	DZP BFX32	Overlapping spacer for BFX	32 x 10 x 1	53	38	10

Ω FLEX - Hand tools for flexible bar

Due to its building characteristics, FLEXIBLE INSULATED BAR is easy to work by hand (bending, torsion, etc.) except for holes, which must be made using a suitable punching or drilling tool, making sure to keep the laminates compacted to prevent their deformation and the formation of burr between laminates.

However, in order to make bending, stripping and punching even easier, as well as to make the serial details dimensions more steady, *TEKNOMEGA* has developed a series of user-friendly hand tools.

The **bending tool** makes it possible to have optimal bending angles, even with pre-determined and/or repeated angle, and to optimize connection length as well as their overall dimensions.

The **twisting tool**, used together with the bending tool, makes it possible to twist flexible bar to obtaining various planes of connection.

The **stripping tool** makes it possible to quickly, neatly and cleanly remove the PVC insulation on the area destined to the connection terminal; it can easily be set to perform repeated stripping. It is also easy and quick to adjust to modify the dimension of the area from which the insulation must be removed.

The **drilling** allows optimal drilling of the terminal destined to the connection, by simply using it with a column or hand drill. The hole is clean, without burr or deformation of each single copper laminate, since the laminate package is conveniently pressed under a special drilling guide.

APPLICATION ADVANTAGES
1) simplicity of use of all the tools and higher safety for operators
2) quick, accurate work, optimization of connection lengths, reduction of overall dimensions inside the electric panel board
3) no need for external power supply
4) easy to carry to work "on site" as well
5) easy to fit on the workbench or, for UFB only, on vise as well

UPB
Hand tool to bend insulated flexible bars
1 - can be used up to 120x10x1 cross-sections
2 - easy to fit on workbench
3 - quick flexible bar tightening
4 - goniometer to set the bending angle
5 - blocking for repeated work on the same bending angle
6 - no damage to the insulation
7 - small effort thanks to the lever

UFB
Hand tool to drill insulated flexible bars
1 - for holes: Ø 6.5 – Ø 8.5 - Ø 10.5 - Ø 12.5
2 - possibility to drill one or more holes on the bar
3 - can be used from 20 to 120 mm laminate width
4 - quick dies change for the various hole diameters
5 - it can be used with column or hand drilling tool

UTB
Hand tool to twist insulated flexible bars
supplied only together with the bending tool UPB
1 - it can be used up to 120x10x1 cross-sections
2 - to be used with the bending tool
3 - allows twisting of the insulated flexible bar without damaging the insulation, to get a change in plane of connection
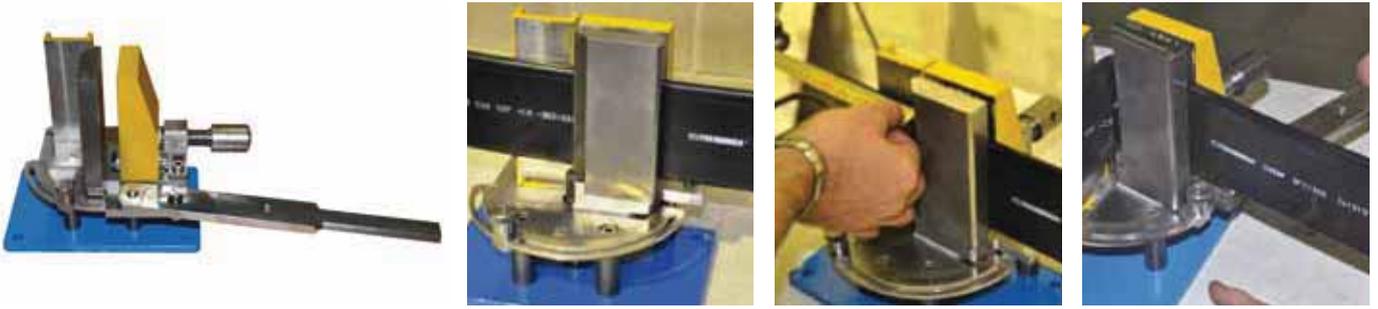
USB
Hand tool to strip insulated flexible bars
1 - it can be used on flexible bar cross-sections from 20x2x1 to 120x10x1
2 - accurate insulation cut on all 4 sides with only two moves
3 - quick and easy determination of the terminal length to be stripped thanks to the millimeter ruler

Code	Reference	Description		Weight (Kg)	H (mm)	P (mm)	L (mm)
UBF1000	UPB-BFX	Hand bending tool	1	12,80	220	230	220*
UBF1005	UPB-T-BFX	Hand bending tool + Twisting tool	1	14,40	220	350	220*
UBF1010	UFB-BFX	Hand drilling tool	1	7,10	65	175	240
UBF1015	USB-BFX	Hand stripping tool	1	12,00	120	280	200
UBF2000	USB-SET	Set of spare blades for stripping tool	1	-	-	-	-

* UBF1000 - UBF1005: the indicated dimensions refer to the machine body without lever

Ω FLEX - Hand tools for insulated flexible bar

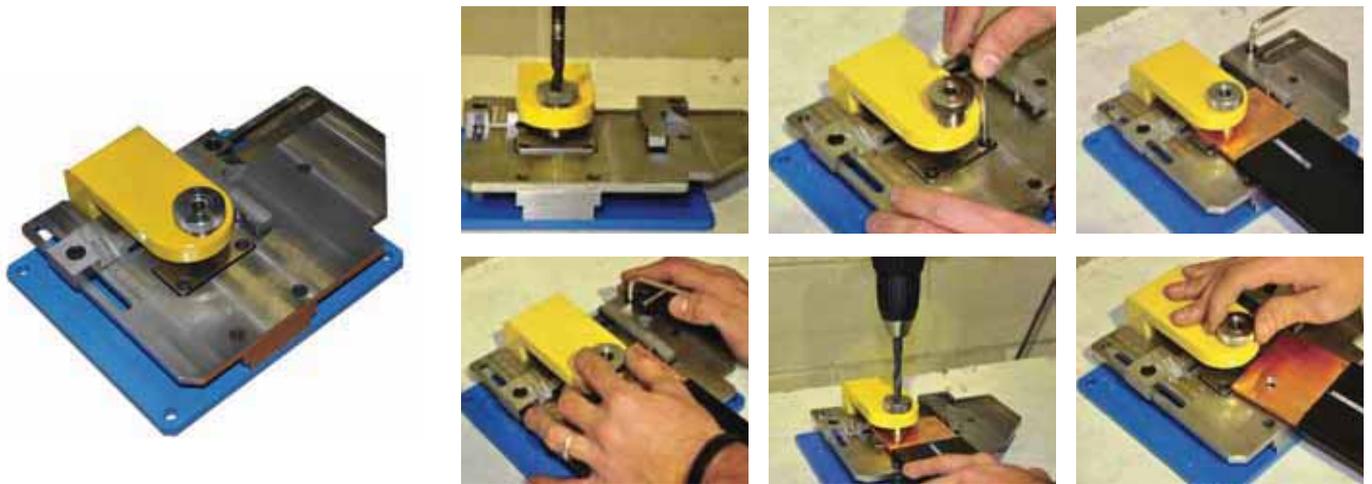## INSTRUCTIONS FOR USE

UPB   BENDING TOOL FOR INSULATED FLEXIBLE BAR

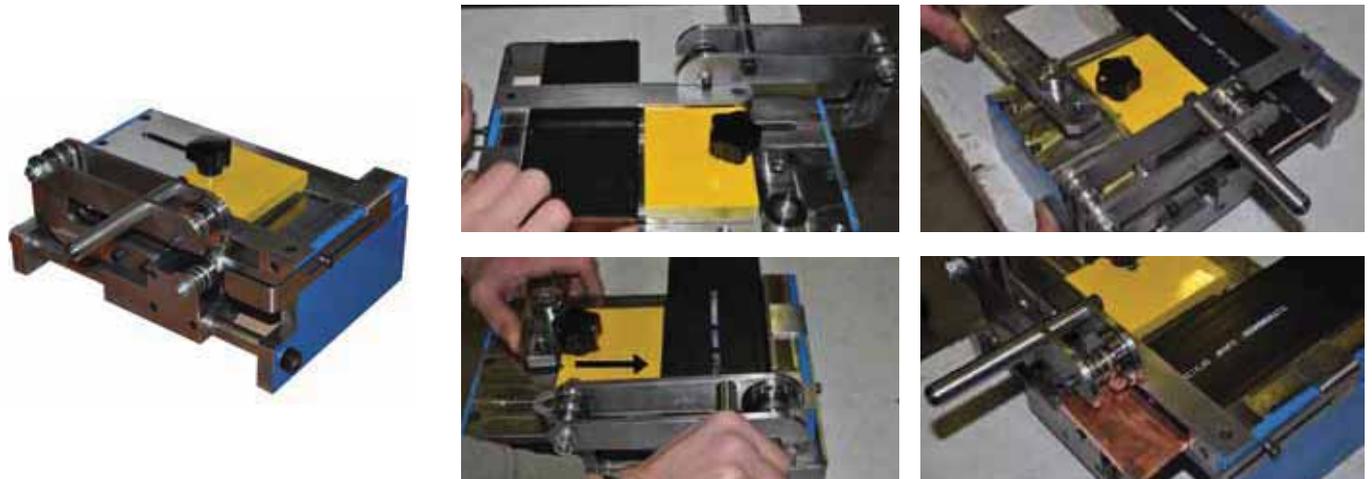**UTB   TWISTING TOOL FOR INSULATED FLEXIBLE BAR**

UFB   DRILLING TOOL FOR INSULATED FLEXIBLE BAR

USB   STRIPPING TOOL FOR INSULATED FLEXIBLE BAR

Ω FLEX - Preformed flexible bars as per drawing

TEKNOMEGA makes it possible to receive Ω FLEX INSULATED FLEXIBLE BARS bent and punched as per the specific customer's requirements.
This is convenient in the case of the conditions of "series" production of "standard" electric panel boards and/or equipment.
The use of PREFORMED INSULATED FLEXIBLE BARS AS PER DRAWING makes it possible to optimize the wirings times and to eliminate the production of wastes and possible unused work scrap.

Ω FLEX - Applications