



## HB12N SEMI-CON SHAVING TOOL

**Warning! This tool should not be used on live electrical circuits. It is not protected against electrical shock! Always use OSHA/ANSI or other industry approved eye protection when using tool.**






**This tool is not to be used for purposes other than intended. Read carefully and understand instructions before using this tool. During operation, keep hands away from the blade.**

The HB12N Semi-con Shaving Tool is used to remove bonded semi-con from 5-35 kV power cable. The cable size range is 18 to 60 mm (.70 -2.4") diameter over the semi-con screen with semi-con thickness up to 2.4mm (.095") thick.

### Tool Features

- Blade shape design provides superior finish on shaved insulation
- Precision blade depth adjustment with 0.1 mm (.004") depth increments.
- Multiple indexing tool feed positions for improved performance.
- REVERSE feed blade feature allows for short (7 mm) semi-con to jacket length clearances.
- 20 degree chamfer at semi-con end.
- Easy blade replacement without the need for additional tools.

### Operating Instructions:

1. Remove outer cable shields with suitable tools to expose semi-con insulation shield. Straighten the cable as best as possible.
2. Retract the blade to its highest position by turning the blade adjusting knob counterclockwise.
3. Open the tool and secure it on the cable about 25-50 mm from cable end.
4. Turn blade adjusting knob clockwise until blade touches semi-con screen and re-position tool at cable end.
5. Lower the blade depth to the approximate thickness of the semi-con. Each indexing adjustment of the blade moves it 0.1 mm.
6. Set the feed lever in either the  or the  feed position. The width of the shave is narrower in the  position, wider in the  position.
7. Rotate the tool clockwise and observe the shaving results.
8. If necessary, re-adjust the blade depth and feed lever for the best shaving result.
9. Observe the shaved semi-con strip during operation. During the shaving process, do not allow the strip to get caught under the cable rollers. This will disturb the shaving result. A convenient technique is to wind the shaved semi-con strip around the tool bar handle while shaving (Fig.2). Another option is to guide the strip around the shaved insulation using the winding pin (See Fig.3 next page)
10. After shaving to the desired length, move the feed lever to the stop  position. Make one full turn to finish the shaving.
11. Remove HB12N tool from the cable.

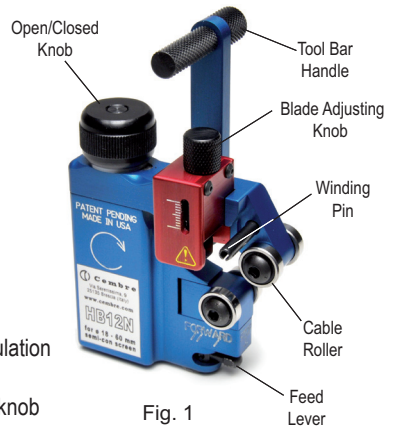


Fig. 1

Symbol meaning:



-   Feed
-  Stop / Shaving End



Fig. 2

During the shaving operation with the winding pin, note the direction of the semi-con strip around the pin.

### Short clearance reversing feature.

The standard operation of the HB12N noted previously will shave the semi-con screen up to 25 mm (1") from the stripped jacket. (Fig.4a)

If additional screen must be removed, the HB12N tool has the ability to shave semi-con to within 7mm of the stripped cable jacket by using the reversing feature. (Fig.4b)

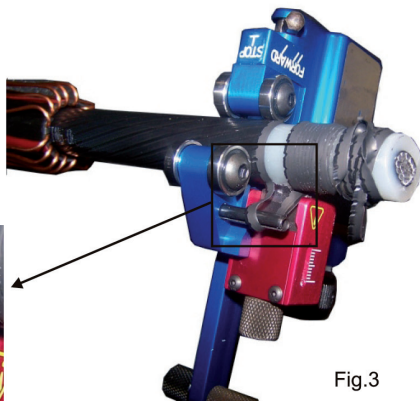
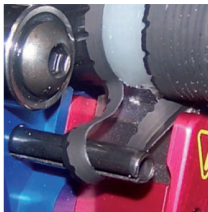


Fig.3

### Operation:

1. Shave the semi-con as noted in the standard operation.
2. Back the blade off by turning adjusting knob counterclockwise.
3. Turn the tool around and secure the tool onto the shaved insulation. (Fig.4c)
4. Re-set the blade depth to the insulation diameter.
5. Set the feed lever in **1** or **II** of the REVERSE positions, turn the tool counterclockwise, and proceed to shave the semi-con.
6. Observe the depth of the shave and re-adjust if necessary.

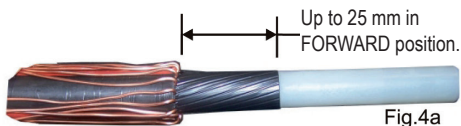


Fig.4a

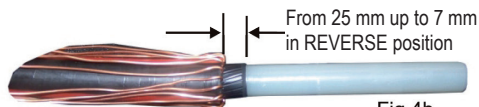


Fig.4b

Store tool in its plastic case in a clean place, free of debris.

### Blade replacement:

- Turn blade adjusting knob clockwise until the blade will disengages from the screw. Insert the new blade into the blade holder.
- Turn blade adjusting knob counterclockwise to re-secure blade.

SPARE BLADE: CB-HB12N cod. 6419998



Fig.4c



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