

EZ BEND™ Conduit Bending Equipment

For field bending of small and large diameter nonmetallic conduit, the easy answer is Carlton EZ BEND* conduit bending equipment.



- Lightweight
- Fast, Simple and Safe
- Includes complete instructions and a convenient bending chart
- Portable
- Less expensive than factory bends

* EZ BEND is a registered Trademark of Bradshaw Manufacturing, Inc.

EZ BEND™ Conduit Bender, Jr.

A practical, convenient portable conduit bender for 1/2 in. through 2 in. diameter nonmetallic conduit allows bends up to 14 in. radius and to 90° elbows. The EZ BEND* Conduit Bender, Jr. is a time-saving, easy-to-carry unit featuring a bracket to store the power cord, a carrying handle, and a clasped cover. The unit operates on a standard 20 amp, 120 V circuit.

Dimensions: 7-1/2 in. x 8-1/2 in. x 31 in.
Operating Temperature: 82° - 93°C



Carlton's EZ BEND Conduit Bending Equipment is designed with the electrical contractor in mind. The completely portable and fully encased EZ BEND benders and plug kits can be transported from job to job without damage or harm to the equipment. Additionally, the heavy duty construction and integrity of Carlton's EZ BEND Conduit Bending Equipment ensures that it will last for years to come.

Cat. No.	Std. Ctn. Qty.	Std. Ctn. Wt. (lb.)
G280J	1	10

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Field Bending Rigid Nonmetallic Conduit

1. Heating

Conduit section to be bent must be heated evenly over the entire length of the curve. Carlton offers EZ BEND electric heaters designed specifically for the purpose, in sizes to accommodate all conduit diameters. These devices employ infra-red heat energy which is most quickly absorbed by the conduit. Small sizes are ready to bend after a few seconds, while larger diameters require two or three minutes, or more, depending on conditions. The use of torches or other flame-type devices is not recommended. PVC conduit exposed to excessively high temperatures may take on a brownish colour. Sections showing evidence of such scorching should be discarded.

2. Forming The Bend

1/2 in. thru 1-1/2 in. Diameters – When properly heated the conduit is very flexible and can be shaped to almost any configuration. The conduit is then cooled by sponging with water, and the bend is ready to install.

2 in. and Larger Diameters – Larger sizes of conduits and ducts require internal support to prevent “crimping” or deforming during the bending process. Bending plugs are inserted in each end of the conduit section before heating. The plugs expand to provide an airtight seal. (Note: Carlton does not offer bending plugs.)

3. Cooling

As the conduit is heated, the retained air expands, and the increased internal pressure allows the conduit to be bent without deforming. The conduit must be cooled before the plugs are removed. For an immediate cool and set, sponge with cold water.



Minimum practice is required to master the three steps in bending nonmetallic conduits and ducts.

Special Bends

For “blind” bends or for compound turns in a conduit run, the heated conduit may be solvent cemented in place while still flexible.