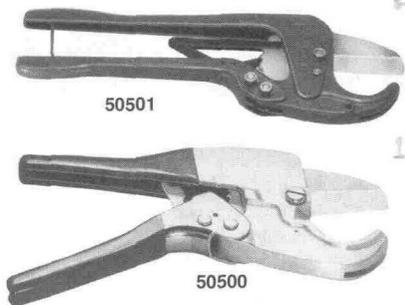


# KLEIN PVC CUTTERS/ KLEIN-Benfield® BENDERS



## PVC Cutters



### Ratcheting PVC-Cutters

Makes clean, burr-free cuts through PVC. Ratchet-action design for maximum cutting power with very little effort. No. 50500 cuts 1/4" through 1 1/4" PVC. 9" long, it is easy to carry in pocket or pouch. No. 50501 is a high-leverage ratchet-action cutter for 1/2" through 2" PVC. It has a pipe supporting-plate that adjusts to the PVC size. It reduces pipe deformation and the possibility of the pipe cracking. Special heat-treated blades assure long life.

Cat. No.	Length	Capacity
50500	9" (23 cm)	1/2"-1 1/4"
50501	16 1/2" (42 cm)	1/2"-2"
50503	Replacement blade for No. 50500.	
50504	Replacement blade for No. 50501.	

## Conduit Benders and Hickeys

Benfield® benders and hickeys are manufactured only by Klein Tools, Inc. Because of their time-tested design, they take the guesswork out of conduit bending. There is a right tool for every bending need—EMT, aluminum, rigid and IMC—and all with unique features that make precision easy, eliminate waste, and save time on every bend.

Benders have large, bold cast-in benchmark symbols, degree scales and multiplier scales. An arrow points to the beginning of a bend...a star indicates back-of-bend locations. A "tear drop" symbol indicates the exact center of a 45° bend.

Benders for 1/2" EMT also have cast-in offset formula and multiplier, providing instant, on-the-spot information for making accurate offset-angle bends.

A cast-in degree scale makes it easy to get a precise bend every time, in any position. All Benfield benders and hickeys are made of rugged malleable iron. A choice of high-strength steel handles, each with a handy reference guide to offset-angles and dimensions, completes the bender... provides an assembly perfectly matched to your bending requirements.

Benfield is a Registered Trademark of Klein Tools, Inc.



### Klein-Benfield® Benders Complete with Handles

Three bender/handle combinations cover a range of bending requirements for 1/2" to 1" EMT and 1/2" or 3/4" rigid conduit. The benders are described at the top of the next column on this page; the handles on the following page.

Cat. No.	Description
51211	No. 51201 Bender complete with No. 50473 Handle, for 1/2" EMT
51212	No. 51202 Bender complete with No. 50473 Handle, for 3/4" EMT or 1/2" rigid conduit.
51213	No. 51203 Bender complete with No. 50474 Handle, for 1" EMT or 3/4" rigid conduit.



### Klein-Benfield® Benders

Fixed-radius, one-sweep design permits pinpoint precision even by inexperienced users. Has easy-to-read cast-in benchmark symbols and offset-degree scales on opposite sides, plus a countersunk and painted arrow and star to indicate beginning and back-of-bend locations. No. 51201 for 1/2" EMT only, also has 45° bend center-marker and cast-in offset formula in addition to the multipliers.

Cat. No.	For Thinwall (EMT) Conduit	For Rigid Conduit
51201	1/2"	—
51202	3/4"	1/2"
51203	1"	3/4"



### Klein-Benfield® Powr-Jack® Benders

Has cast-in calibrations plus a two-position booster-step that makes it possible to bend up to 1 1/4" EMT, and 1" Rigid and IMC without expensive power tools. Eliminates the need for costly, preformed elbows.

Cat. No.	For Thinwall (EMT) Conduit	For Rigid Conduit	For IMC
51205	1"	3/4"	—
51206	1 1/4"	1"	1"



### Klein-Benfield® Rigid and IMC Benders

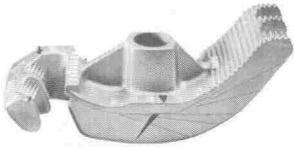
Extra-strong benders especially designed and reinforced for IMC and Rigid only. They make space-saving bends to the smallest radius allowed by the NEC. Cast-in indicators simplify bending and assure accuracy.

Cat. No.	For Rigid and IMC Conduit	Radius
51216	1/2"	4"
51217	3/4"	5"



# KLEIN-Benfield® BENDERS

## Conduit Benders and Hickeys CONT'D



### Klein-Benfield® Short-Radius Combination Bender

This combination short-radius bender gives you two tools in one—eliminates need to carry an extra size. Simply select one of the two grooves made for the conduit size and type you want to bend.

Cat. No.	Conduit Size, Type and Radius
51209	½" EMT, 3" radius
	¾" EMT and ½" rigid, 4" radius



51230

### Klein-Benfield® Stubber Hickeys

Produces bends with various radii, allowing perfect concentricity for parallel conduit runs. Deep-wall side-support and unique groove-contour for bending EMT, Rigid and IMC conduit.

Cat. No.	For Thinwall (EMT) Conduit	For Rigid and IMC Conduit
51230	½"	—
51231	¾"	½"
51232	1"	¾"
51233	1¼"	1"



51227

### Klein-Benfield® Plumb-Bob Hickeys for Rigid Conduit

Each model bends two conduit sizes—reduces need for extra hickey sizes, and each has automatic angle-indicator to show the exact degree of the bend.

Cat. No.	For Rigid Conduit
51227	½" and ¾" (one shot)
51228	1" and 1¼" (two shot)

## Conduit Bender and Hickey Handles



### Bender and Hickey Handles

Four sizes and four lengths provide the proper leverage for use with all Klein-Benfield benders and hickeys. High-strength galvanized steel handles are threaded at one end. Informative bending guide on every handle. Comfortable enlarged handle at gripping area.

Cat. No.	IPS Dia.xLgth.	Fits Klein-Benfield Benders
50473	¾" x 38"	51201, 51202, 51209, 51216, 51230, 51231
50474	1" x 44"	51203, 51205, 51217, 51227, 51232
50475	1¼" x 54"	51206, 51233
50476	1½" x 60"	51228

### Bending Tips

**For greater accuracy.** Bear down with heavy foot pressure. Pin the conduit tight to the floor throughout the full arc.

**Uniform long radii.** Mark conduit in even increments and bend in even amounts at each mark.

**Stub-Ups in narrow partitions.** Bend a "Kick" in the conduit a few inches away from the partition... A conventional radius bend will then fit into a narrow space because it enters obliquely.

**Bending both legs of an offset on floor.** Make the second bend on a slightly raised platform (a 2" x 4" will usually do) or bend at edge of a loading dock, stairwell, etc. This allows first bend to hang in free air.

**Avoiding crooked offsets.** A chalk line on conduit permits alignment at identical registry points on the tool. Thus multiple bends are kept in the same plane.

**Bending with tool in air.** Apply hand pressure as close to the tool as possible... even if uncomfortable. Keep pressure close to the groove. Tucking conduit under armpit helps. To maintain balance allow the tool to rock forward as you make the bend.

**Benders for 1/2" EMT have cast-in offset formula and multiplier, providing instant, on-the-spot information for making accurate offset-angle bends.**

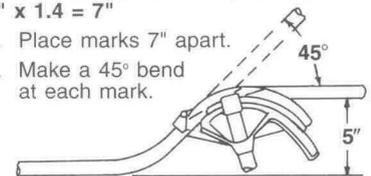
$$\text{Depth} \times \text{multiplier} = \text{Distance Between Bends}$$

The "Multiplier Scale" opposite the degree scale makes it quick and easy to follow the formula.

EXAMPLE:

To make an offset 5" deep with 45° bends.  
 $5" \times 1.4 = 7"$

1. Place marks 7" apart.
2. Make a 45° bend at each mark.



NOTE: On all Benfield® Benders, a straight up handle (vertical to floor) indicates a 30° bend.

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See Cable Tools Section for Cable Bender.