KLEIN TOOLS

CONDUIT BENDER AND ANGLE SETTER™ GUIDE

Offset Bend Steps

1. Measure distance X to obstruction and height Y to clear obstruction.
2. Multiply height Y by shrink/inch. Add this to distance to obstruction X. This is first bend line.
3. Multiply height Y by constant multiplier. This is distance between bends. Mark second bend line at this distance.
4. Bend first bend using first bend line. Spin conduit 180° and perform second bend using second bend line.

Saddle Bend Steps

1. Measure distance X to center of obstruction and height Y to clear obstruction.
2. Add distance X to center of obstruction to shrink value from Saddle Bend table. Make center bend mark at this distance.
3. Multiply height Y by constant multiplier. This is distance between bends. Mark second bend line at this distance.
4. Bend first bend using first bend line. Spin conduit 180° and perform second bend using second bend line.

ZIP GUIDE™ FOR OFFSETS		22-1/2°		30°		45°		60°	
		B Distance Between Bends	C Shrink Amount	B Distance Between Bends	C Shrink Amount	B Distance Between Bends	C Shrink Amount	B Distance Between Bends	C Shrink Amount
A Offset Depth	2"	5-1/4"	3/8"	—	—	—	—	—	—
	3"	7-3/4"	9/16"	6"	3/4"	—	—	—	—
	4"	10-1/2"	3/4"	8"	1"	—	—	—	—
	5"	13"	15/16"	10"	1-1/4"	7"	1-7/8"	—	—
	6"	15-1/2"	1-1/8"	12"	1-1/2"	8-1/2"	2-1/4"	7-1/4"	3"
	7"	18-1/4"	1-5/16"	14"	1-3/4"	9-3/4"	2-5/8"	8-1/2"	3-1/2"
	8"	20-3/4"	1-1/2"	16"	2"	11-1/4"	3"	9-5/8"	4"
	9"	23-1/2"	1-3/4"	18"	2-1/4"	12-1/2"	3-3/8"	10-3/4"	4-1/2"
	10"	26"	1-7/8"	20"	2-1/2"	14"	3-3/4"	12"	5"

ZIP GUIDE™ FOR SADDLES		45°		60°	
		B 22.5° Return Bends		B 30° Return Bends	
		C Distance From Center Mark	D Shrink Amount	C Distance From Center Mark	D Shrink Amount
A Obstruction Height	1"	2-1/2"	3/16"	2"	1/4"
	2"	5"	3/8"	4"	1/2"
	3"	7-1/2"	9/16"	6"	3/4"
	4"	10"	3/4"	8"	1"
	5"	12-1/2"	15/16"	10"	1-1/4"
	6"	15"	1-1/8"	12"	1-1/2"

BENDER TAKE UP TABLE	A 90° Stub-Up Bend	
	B Conduit Size	C Stub Height
	1/2" EMT	5"
	3/4" EMT 1/2" Ridgid	6"
	1" EMT 3/4" Ridgid	8"

CONDUIT BENDER — FIG. 1

1. Hook
2. Alignment Arrow
3. 45° Center-of-Bend
4. 90° Back-of-Bend & 60° Center-of-Bend
5. Bend Angle Lines
6. Foot Pedal
7. Angle Setter™ Storage
8. Bend Angle Multipliers
9. Alignment Notches (use with Angle Setter™)

ANGLE SETTER™* — FIG 2

1. Conduit Stop Track
2. Angle Alignment Grooves
3. Alignment Tabs
4. Lanyard Hole

*For use with EMT Conduit

ANGLE SETTER™ INSTRUCTIONS — FIG 3

Use markings for desired bend angle (10°, 22.5°, 30°, 45°)

1. Align the Angle Setter™ alignment groove with end of bender head angle line (30° shown).
2. Using your palm, press Angle Setter™ firmly into place, until it is flush with the sides of the bender channel - ensure alignment tabs are fully seated into alignment notches.
3. Insert conduit into bender head and prepare to bend as usual.
4. Bend conduit until contact with the Angle Setter™ is felt. Will work for floor and air bends.

Caution: Bending past Angle Setter™ can result in kinks in conduit

FIG. 1

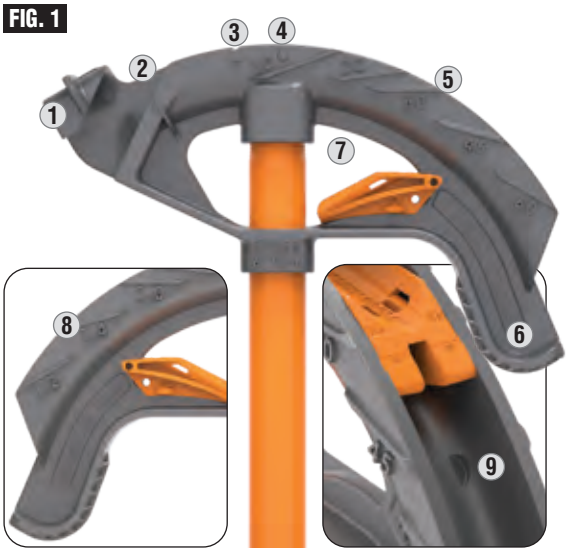

FIG. 2

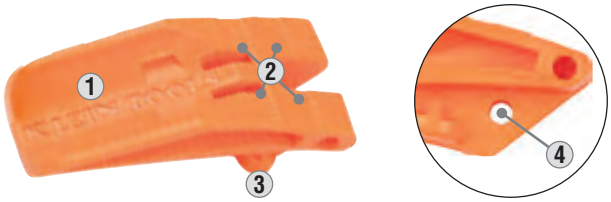

FIG.3