



UNIVERSAL BENDER OPERATION MANUAL



WARNING

Read and understand all instructions before using this tool. The operator must follow basic precautions to reduce the risk of personal injury and/or damage to the equipment.

HAZARD DEFINITIONS

Please familiarize yourself with the hazard notices found in this manual. A notice is an alert that there is a possibility of property damage, injury or loss of life if certain instructions are not followed.

DANGER! This notice indicates an immediate and specific hazard that will result in severe personal injury or loss of life if the proper precautions are not taken.

WARNING! This notice indicates a specific hazard or unsafe practice that could result in severe personal injury or loss of life if the proper precautions are not taken.

CAUTION! This notice indicates a potentially hazardous situation that may result in minor or moderate injury if proper practices are not taken.

NOTICE! This notice indicates that a specific hazard or unsafe practice will result in equipment or property damage, but not personal injury.

WORK AREA

1. Operate in a safe work environment, Keep your work area clean, well-lit and free of distractions. Place lights so you are not working in a shadow.
2. Keep anyone not wearing the appropriate safety equipment away from the work area.
3. Store unused tools properly in a safe and dry location to prevent rust or damage. Lock tools away and keep out of the reach of children.

Usage

1. This machine is suitable for the bending of various materials, Flat steel, Round steel, Square steel, and Angle steel.
2. Main Features:
 - 2.1 Easy and precise operation.
 - 2.2 Bending angle up to 120°
 - 2.3 Extremely high precision of bending within the bending range.
 - 2.4 Wide supporting face ensuring safe and reliable operation
 - 2.5 Bending angle of various radius by changing and/or turning around die plate.
 - 2.6 Using bending eccentric block instead of bracket.

3. Installation and caution

3.1 Installation

3.1.1 Please check whether the part of this machine are fully equipped and not damaged according to the parts list or part figure.

3.1.2 This machine should be mounted on hard ground or specific stand (not supplied)

3.1.3 Please leave plenty room around the machine for your easy operating, in order to avoid injury.

3.1.4 Please remove the anti-rust grease on processing surfaces and some parts included kerosene(maybe).

3.2 Caution

3.2.1 Please read the manual before operation and make yourself understand its structure and principle completely.

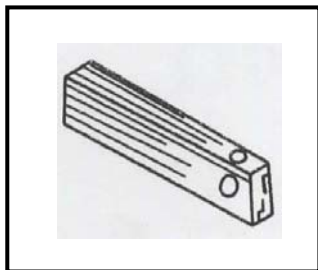
3.2.2 Please don't operate the material width and thickness than table list max. range.

3.2.3 When you bend the materials, you must be used handle in order to increase force.

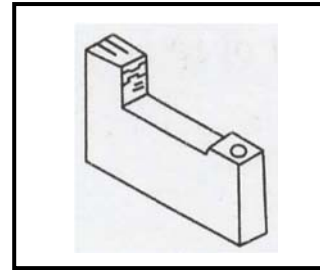
4. Main technical specification

	material	UB-70	UB-100
Cold Bending	Flat steel	2.7" x 0.2" (70 X 6mm)	3.9" x 0.2" (100 x 5mm)
	Square steel	0.6" x 0.6" (16 x 16mm)	0.6" x 0.6" (16 x 16mm)
	Round steel	0.7" (18mm)	0.7" (18mm)
	Angle steel	2.3" x 0.3" (60 x 8mm)	2.3" x 0.3" (60 x 8mm)
Hot bending	Flat steel	2.7" x 0.6" (70 X 15mm)	3.9" x 0.6" (100 x 15mm)
	Square steel	0.8" x 0.8" (22 x 22mm)	0.8" x 0.8" (22 x 22mm)
	Round steel	0.8" (22mm)	0.8" (22mm)
	Angle steel	2.7" x 0.6" (70 x 15mm)	3.9" x 0.5" (100 x 12mm)

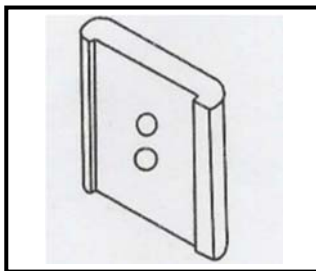
5. Parts list of dies



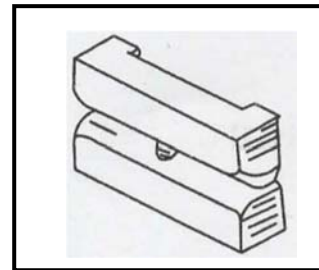
1、Limit Lever



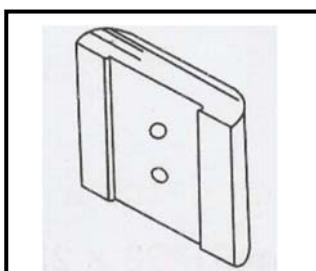
4、Bending die plate



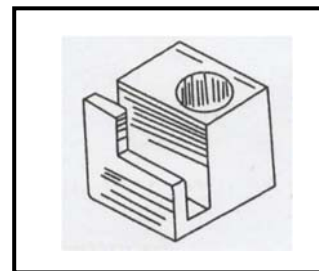
2、Die plate (fillet radius 10/15)



5、Die plate of diamond section



3、Die plate (fillet radius 20/25)



6、Bending eccentric seat