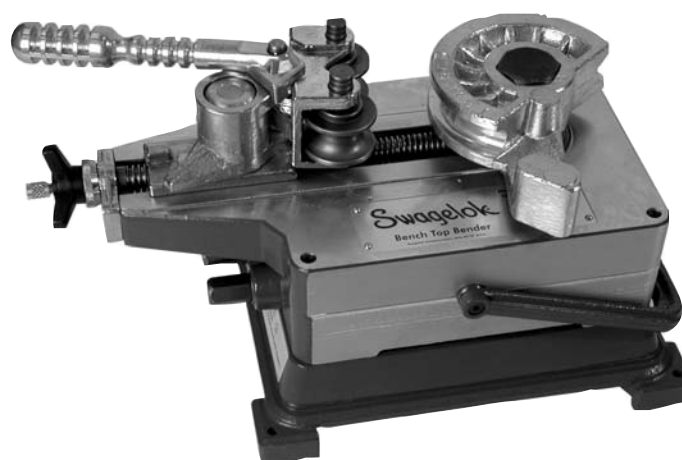


# Bench Top Tube Benders

## Electric and Manual Benders



Swagelok® bench top tube benders bend fractional and metric tubing in a variety of materials. These easy-to-use tube benders reduce installation time and effort as well as the potential for wrinkling or other damage to the tubing during bending.

### Features

- Rugged, lightweight, aluminum construction
- 1° to 180° bending range
- 1/2 to 1 in. outside diameter (0.035 to 0.120 in. wall thickness) and 12 to 25 mm outside diameter (1 to 3 mm wall thickness) tubing range
- Metal carrying case for storage
- CE compliant

### Technical Data

- Dimensions—tube bender in case:
  - Width—21 in. (53 cm)
  - Depth—11 in. (28 cm)
  - Height—14 1/2 in. (37 cm)
- Weight—tube bender in case, excluding tools:
  - Manual unit—75 lb (34 kg)
  - Electric unit—79 lb (36 kg)
- Manual tube bender can be operated with a 1/2 in. drill motor using optional torque clutch and support arm.
- Power requirements:
  - MS-BTB-1—110 V (ac), 50/60 Hz; maximum current—10 A
  - MS-BTB-2—230 V (ac), 50/60 Hz; maximum current—5 A

## Ordering Information

1. Select a basic ordering number.

Bender Type	Basic Ordering Number
Manual	MS-BTB-M
Electric—110 V (ac)	MS-BTB-1
Electric—230 V (ac)	MS-BTB-2

Example: **MS-BTB-1**

2. Select a power cord option designator<sup>①</sup> (electric models).

Power Cord Option	Designator
North America—110 V (ac)	-1
North America—230 V (ac)	-2
Japan/Taiwan—110 V (ac)	-3
Japan/Taiwan—230 V (ac)	-4
United Kingdom—110 V (ac)	-5
United Kingdom—230 V (ac)	-6
Continental Europe—230 V (ac)	-7
Australia/New Zealand—230 V (ac)	-8

Example: **MS-BTB-1-1**

<sup>①</sup> For more information, see the Swagelok *Electrical Power Cord and Plug Options* catalog.

3. Select a user's manual language designator.

User's Manual Language	Designator
Chinese	-C
English	-E
French	-F
German	-G
Japanese	-J
Spanish	-S

Example: **MS-BTB-1-1-E**

4. Select a tool kit designator.

Tool Kit	Designator
Fractional bend shoes and rollers (1/2, 5/8, 3/4, 7/8, and 1 in.)	-FKIT
Metric bend shoes and rollers (12, 16, 18, 20, 22, and 25 mm)	-MKIT

Example: **MS-BTB-1-1-E-FKIT**

- Tube bender comes with a grease gun and metal carrying case.
- Individual tool components may be ordered separately.
- Steel bend shoes are required when bending duplex material or when bending 1 in. tubing with a wall thickness greater than 0.095 or 25 mm tubing with a wall thickness greater than 2.4 mm.
- Tooling is available for 28 and 30 mm sizes and includes steel bend shoes.

Contact your independent Swagelok sales and service representative for additional information.

## Accessories

The tripod provides portable support for the tube bender.

Ordering number: **MS-BTB-A-TP**

The torque clutch and support arm kit allows the manual tube bender to be operated with a 1/2 in. drill motor.

Ordering number: **MS-BTB-A-TCSA**

The foot pedal can be used in place of the toggle switch to operate the electric tube bender.

Ordering number: **MS-BTB-A-FS**

### Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

**Caution: Do not mix or interchange parts with those of other manufacturers.**