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Tennsmith Bench Series — bench hand brakes, 48 in, 16 and 22 gauge

Tennsmith bench-mounted hand brakes, from the maker's own table.

Specification

Item	Value
Type	Bench-mounted hand brake
Material	All-steel welded construction, bronze bearings at the pivot points
Maker	Tennsmith
Stand	Bolted assembly stand available as an option

Dimensions by size

Dimension, in	HBU48-16	HBS48-16	U48-22	S48-22
Capacity, mild steel	16 ga (1.60 mm)	16 ga (1.60 mm)	22 ga (0.75 mm)	22 ga (0.75 mm)
Bending length, in (mm)	48-1/4 (1225.55)	48-1/4 (1225.55)	48-1/4 (1225.55)	48-1/4 (1225.55)
Maximum box depth, in (mm)	4 (101.6)	—	3 (76.2)	—
Finger widths, in	2, 3, 4	—	2, 3, 4	—
Beam lift, in (mm)	1-1/4 (31.75)	1-3/4 (44.45)	7/8 (22.23)	7/8 (22.23)
Front-to-rear beam adjustment, in (mm)	5/8 (15.88)	5/8 (15.88)	1/4 (6.35)	1/4 (6.35)
Minimum reverse bend, in (mm)	1/4 (6.35)	1/4 (6.35)	5/16 (7.94)	5/16 (7.94)
Minimum flange in capacity material, in (mm)	1 (25.4)	1 (25.4)	3/8 (9.53)	3/8 (9.53)
Shipping weight	495 lb (224.5 kg)	460 lb (208.7 kg)	280 lb (127 kg)	220 lb (100 kg)

Inches are the maker's figures and are official; millimetres in brackets are converted (inches × 25.4) and are not official. Gauge and weight as the maker prints them. A dash means the maker does not list the value for that model.

Part numbers

Part no.	Size	Use
HBU48-16	16 gauge, box and pan	Heavy-duty box, pan and straight bends
HBS48-16	16 gauge, straight	Straight bending only, replaceable nose bar
U48-22	22 gauge, with fingers	Lighter capacity, 22 gauge and lighter material
S48-22	22 gauge	Lighter capacity, 22 gauge and lighter material

The four models on the maker's page.

Notes

- Capacities are for mild steel. The maker's page does not mention aluminum: for what a brake does in aircraft alloys, see the bending guides.
- HBU48-16 comes with an apron stop rod, extension handles and a counterweight. Radius fingers are an optional add-on, and its removable apron angle and insert allow 1/4 in reverse bends in lighter materials.
- The lighter 22 gauge models are easier to transport to remote job sites.

SOURCES · Tennsmith, Bench Model Hand Brakes

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/tools/tennsmith-u48-22/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.