Brown Boggs 237AL 36 inch 18ga Sheet Metal Shear

Cautions

- Eye protection is mandatory.
- Wear work gloves to avoid cuts from sharp edges.
- Keep hands and feet away from the working area.
- Do not stand behind the shear.
- Only operators trained in the safe operation of the metal shear are allowed to use it.
- Only cut sheet metal of the correct gauge on the shear. Do not cut other materials using the shear.

Description and Uses

A shear is a tool used to cut straight edges into sheet metal stock. Shears exert powerful forces to cut material, and present severe dangers of crushing and severing extremities. Pay attention to all posted warnings and keep hands away from the working area.

The shear is designed to work with specific sheet metal gauges only. The Shear in the print shop is meant for cutting copper of thickness 18ga and up only.

Standard Operations

Note: only those individuals that have received proper instruction are allowed to use the metal shear. Please refer to training demonstrations for specifics about materials and settings.

The metal shear should be inspected before use to ensure that all parts are in working order and that the area is tidy and free of all other hazards.

Loading Sheet Metal

1. The shear guard should be set as low as possible allowing only enough room for sheet stock. Its purpose is to keep your hands away from the point of operation, and must not be removed.

2. Measure the piece you wish to cut. Never work with material that is too small to hold safely on the shear. When working with short pieces where more length is past the blade than on the operator side, pieces must be back measured instead. It is recommended that two marks be made on the sheet metal on either side for accuracy with a permanent marker or etching needle.

3. With the shear treadle unengaged (do not place any weight on the treadle until fully ready to make the cut) place the material on the shear's work surface (the bed). Line measurement marks up with the back edge of the bed. Ensure that you are able to firmly hold the sheet metal down to the bed without placing you fingers under the guard. A distance of at least 6 inches away from the back on the bed is recommended for finger placement.

Cutting

1. With a firm stance on the floor in front of the shear (the operator side) and with a firm hold of the material down to the bed, raise one foot and place it on the shear's treadle. Ensure that your other foot is not under the treadle.

2. Using a controlled, continuous motion, press the treadle down with your foot. This will bring the blade and guard down on to the sheet metal, making the cut.

3. Allow the treadle to return to its original position once again using a controlled, continuous motion. Then remove your foot from the treadle.

4. With the shear returned to its stationary status, retrieve the material and off cuts. Place scraps in the scrap box located near the shear.

Further Considerations

- Ask other workers to move away from the shear while in use.

- Never operate the shear if there is anyone behind it.

- Ensure that the area around shear is clear of other items or hazards. Trip hazards are particularly dangerous when using this tool.

- Never feed material from the back on the shear.
- Never cut stacks of sheet metal on the shear.
- Make certain that nothing is placed on the shear's bed besides your material before making a cut.
- If the shear is not operating correctly then notify your supervisor immediately. Do not attempt to operate again until corrective action has been taken and documented. Only supervisors are trained and are permitted to perform maintenance to the shear.

Hazards

Shears exert powerful force to cut material, and present severe dangers of crushing and severing extremities. Always keep hands away from the blade when feeding work or making the cut.

The shear is for sheet metal only. Never cut other shapes of metal or materials (i.e. round stock). Cutting other materials with the shear presents a serious hazard.

The shear cuts manually using a foot-operated treadle. Do not stand with feet beneath the treadle when making cuts.

Never attempt to shear a piece of sheet metal that is shorter than three times it's thickness. Machine damage and/ or personal injury will occur.