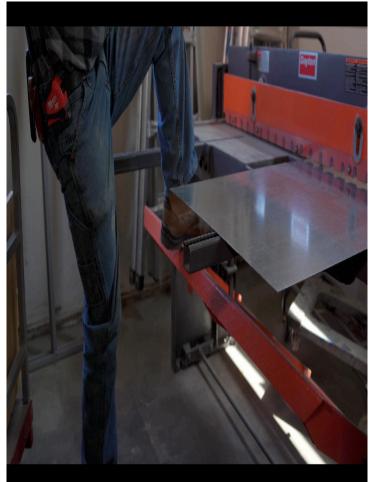
OVERVIEW

A foot-operated sheet metal shear, also known as a foot shear or foot stomp shear, is a tool used for cutting sheet metal into various shapes and sizes. It is operated by using foot pedals to control the cutting action, allowing for hands-free operation and increased precision.guide on how to use a plasma cutter effectively.

This module provides an overview of the parts and procedures involved in using a foot-operated sheet metal shear. It explains the common parts found in these shears, including the cutting table, blade, blade clearance adjustment, foot pedals, handle or handwheel, back gauge, clamps, safety features, and frame/base. The module then outlines step-by-step procedures for using the shear, covering aspects such as workspace preparation, safety gear, familiarity with the shear, blade clearance adjustment, positioning the sheet metal, engaging the foot pedal, guiding the sheet metal, completing the cut, inspecting the cut, and clean-up. It emphasizes the importance of consulting the manufacturer's instructions for specific information on parts and their functions. By following these procedures, users can effectively and safely operate a foot-operated sheet metal shear.



MODULE

1b MODULE 9: FOOT-OPERATED SHEET METAL

PARTS

1. Cutting Table: This is the flat surface where the sheet metal is placed for cutting. It provides support and stability during the cutting process.

2. Blade: The blade is the cutting component of the shear. It is mounted on a hinged arm and moves downward to make the cut. The blade can be straight or have a specific shape depending on the type of cut it is designed for.

3. Blade Clearance Adjustment: This mechanism allows you to adjust the gap or clearance between the upper and lower blades. It determines the thickness of the material that can be cut effectively.

4. Foot Pedals: Foot-operated shears are equipped with foot pedals that control the movement of the blade. Typically, there are two pedals—one to activate the downward motion of the blade and another to release and retract the blade.

5. Handle or Handwheel: Some foot-operated shears have a handle or handwheel that can be manually rotated to adjust the position of the blade or to lock it in place for specific cuts.

6. Back Gauge: A back gauge is a mechanism that helps position the sheet metal accurately for repetitive cuts. It can be adjusted along a ruler or scale to set the desired cutting length.

7. Clamps: Clamps or hold-downs are used to secure the sheet metal to the cutting table, preventing it from moving during the cutting process. They ensure stability and accuracy.





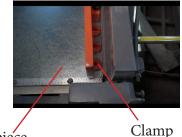
Blade





MODULE

Foot pedals '



Metal piece

1C MODULE 9: FOOT-OPERATED SHEET METAL SHEAR

PROCEDURES

To use a foot-operated sheet metal shear, follow these general procedures:

1. Prepare the workspace: Ensure you have a clean and organized work area. Remove any obstructions or debris that may interfere with the operation of the shear.

2. Wear appropriate safety gear: Put on safety glasses, gloves, and any other necessary protective equipment to safeguard yourself from potential hazards.

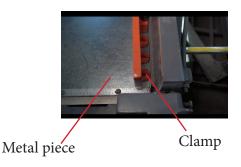
3. Familiarize yourself with the shear

4. Adjust the blade clearance: Set the appropriate blade clearance according to the thickness of the sheet metal you are cutting.

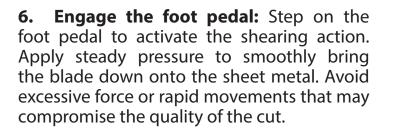
5. Position the sheet metal: Place the sheet metal on the cutting table, ensuring it is properly aligned and secured. Use clamps or other suitable methods to hold the sheet metal in place and prevent movement during cutting.



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7. Guide the sheet metal: Use your hands to guide the sheet metal along the cutting table as the blade descends. Maintain a firm grip on the material, taking care to keep your hands clear of the cutting path and the blade.

Complete the cut: Continue to apply 8. pressure on the foot pedal until the blade has completed the cut through the entire length of the sheet metal. Release the foot pedal to raise the blade back to the starting position.

Inspect the cut: Examine the cut piece 9. of sheet metal to ensure it meets your desired specifications. If necessary, make adjustments to the blade clearance or repeat the cutting process to achieve the desired result.

10. Clean up: Remove the cut sheet metal from the cutting table and clean any metal shavings or debris from the shear and work area. Store the sheet metal shear in a safe and appropriate location.





