

Rolling Mill Overview SOP

Overview of Rolling Mill parts in the Jewelry section



INTRODUCTION

An overview of the Rolling Mill anatomy. What each parts are, and what they do.

Always watch your fingers to make sure they do not get pinched.

Step 1 — Rolling Mill Overview SOP



- This machine is will produce very strong force between the rollers and gears.
- Remain clear of all moving parts of the machine whenever movement is being used.
- Be especially cautious of pinch points. Always stop the machine before entering its work envelope.

Step 2



- Safety glasses must be worn at all times when using the Rolling Mill (and whenever in the workshop at Lansing Makers Space).

Step 3 — The main handle



- spins *all* the roller attached
- It will take some effort, but it should not feel too difficult. If it is, widen the gap between the rollers using the wheel at top (next step).

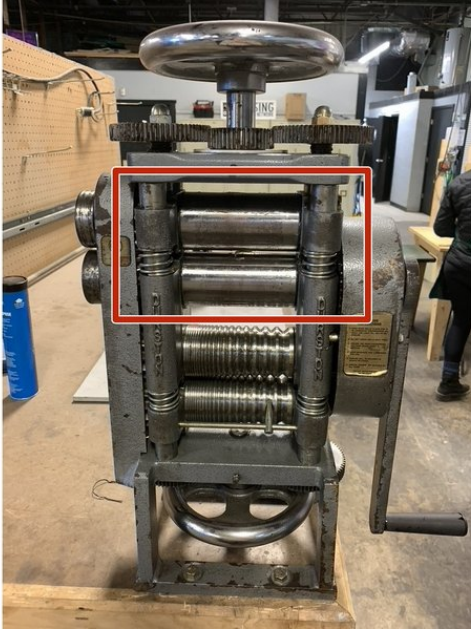
Step 4 — The top wheel



- Adjusts the space between the top flat rollers
- Use the circular ruler to keep track of how far to turn
- If the handle is too difficult to turn, adjust the size of the opening with this.
- The more you move the wheel between rolls (more ticks), the more difficult turning the handle will be

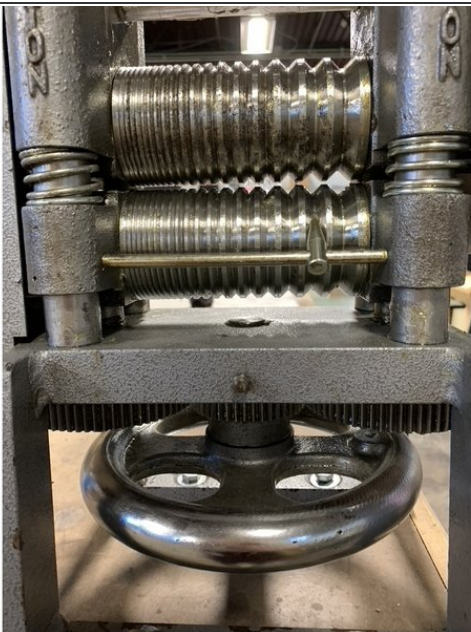
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Step 5 — Flat rollers



- The big rollers on the top for flattening metal pieces into a thin(ner) sheet
- Only soft metals allowed (copper, silver, etc). **DO NOT USE STEEL** (or other hard metals equivalent) as it will scar the rollers
- Watch your fingers as you feed in the metal

Step 6 — Ridged rollers



- Often used to adjust the size of a rod/stick shaped metal (vs. sheet)
- rolls with the main handle at the same time as the top flat rollers
- the pointer helps to keep track of the ridge size as you work through a piece
- Watch your fingers as you feed your metal piece
- **DO NOT USE WITH STEEL** (or other hard metal equivalent)

Step 7 — Tiny side rollers



- Rollers moved with the main handle

Step 8 — Lubrication



- Tube of industrial lubricant that lives by the rolling mill
- Use on the rollers to ensure smooth rolling every several rolls
- LITTLE BIT GOES A LONG WAY