

1302-4

Mark Nelson demonstrates roller printing with a musical theme using Rio Grande products.

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Please continue to page 2 for project instructions.

Guest:



Mark Nelson

Roller Printing

Transfer textures and patterns onto sheet metal from pre-made pattern plates, fabric, paper templates, etched stock and punch-outs. Reference the book in the supplies list below for detailed instructions.

steps:

Rolling Mill Care

The most important parts on this expensive machine are the rollers themselves. Make sure they never rust or become nicked, as they are difficult to recondition. See the manufacturer's manual for recommendations on maintenance.

Preparation

1. Anneal and dry the sheet metal to be imprinted upon. Copper sheet is an inexpensive material with which to practice various methods. Thicker sheet (in the 14–24 gauge range) more effectively accepts embossing than sheet which is thinner.
2. Carefully clean all metal sheet and the pattern plate of dust and debris.
3. If clean, the target metal and texture plate can simply be rolled as is through the rolling mill; however, we recommend the precaution of placing a layer of heavy paper (110-lb. card stock) between the texture plate and the mill's rollers to protect them in case there is any debris on the plate.
4. Stack your materials. It is best if the metal stock is approximately the same width as the pattern plate or printing material you are using. With punchouts and fabric, you can make a sandwich, printing on two pieces of stock at once.

Roller Printing Procedure

5. Perform a "dead-pass" through the mill with the rollers snug against your material to set a benchmark for your final run. Close the rollers by an additional 0.015" (0.035mm) for imprinting.
6. Roll your stack through the mill in a continuous motion to imprint the metal with the pattern in a single pass. If it is too difficult to roll, remove the stack and try again with a slightly larger opening.



supplies:

Order #	Description
113-514	Durston Combination Rolling Mill, 130mm
110-616	Bonny Doon High Precision Containment System
110-617/14	Bonny Doon die, #14
550-109	<i>Complete Metalsmith Pro Plus Edition</i> by Tim McCreight
—	Paper templates
—	Etched Brass
—	Punch-outs
—	Sandpaper
—	Fabric/Lace



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