

Mini-Roller



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Perfect for thin and narrow coil stock



VERTICAL APPLICATION



HORIZONTAL APPLICATION

The Mini-Roller is ideal for thin or narrow stock applications where a Uni-Roller Type S is too large for the press window. When combined with an SPR-2000 or SPR-2000-JR programmable fluid controller, the Mini-Roller will apply the correct amount of fluid for your application and do it consistently day after day.

The design of the internally supplied rollers is the key to applying the fluid. As illustrated above, the Mini-Roller is available in both horizontal and vertical configurations.

For the horizontal configuration, inside each of the rollers there is a dispenser tube with several small holes spaced along its length. Every time fluid is injected into the dispenser tubes from the fluid controller, it is dispensed evenly across the inside of the rollers through these holes.

For the vertical configuration, there is a baffle positioned inside each of the rollers near the top. Every time fluid is injected into the dispenser tube from the fluid controller, it spreads across the baffle where it is then redirected to the outside of the roller. The wicking action of the roller cover material then draws the fluid along the length of the roller.

After the lubricant is dispensed inside the rollers, it is transferred to the stock through a durable polyester felt or polyurethane foam roller cover. These materials apply the lubricant smoothly and evenly across both sides of the stock. As the system continues to cycle, additional lubricant is injected to replenish the lubricant applied to the stock.

The advantage of the system is its consistent application of the exact amount of lubricant required for any particular operation. This eliminates the mess and waste associated with spray systems and traditional externally lubricated roller systems. By applying the proper amount of lubricant, there is little cleanup required and no recirculating fluid to treat or dispose. This results in not only a cleaner shop, but also significant savings from decreased fluid waste, decreased tool wear, improved part quality and increased production rates.

The Mini-Roller systems are available in four sizes ranging from 1" (25 mm) wide to 4" (102 mm) wide.

Many customers have reported savings resulting in a return on investment of less than six months!

STEP 1 Determine Mini-Roller Part Number

MRL -1 - PF

Base System

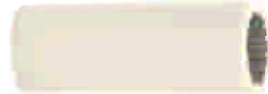
HORIZONTAL SYSTEMS

For Stock Width up to 1" (25mm) Use **MRL-1**
 For Stock Width up to 2" (51mm) Use **MRL-2**
 For Stock Width up to 3" (76mm) Use **MRL-3**
 For Stock Width up to 4" (102mm) Use **MRL-4**

VERTICAL SYSTEMS

For Stock Width up to 1" (25mm) Use **VMRL-1**
 For Stock Width up to 2" (51mm) Use **VMRL-2**
 For Stock Width up to 3" (76mm) Use **VMRL-3**
 For Stock Width up to 4" (102mm) Use **VMRL-4**

Roller Cover Material



Polyester Felt Cover (Standard)
 Extremely durable and compatible with a broad range of fluids.

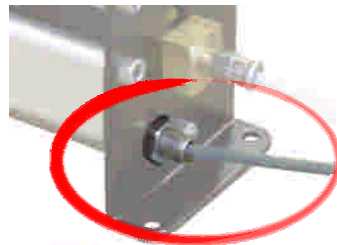
Use **PF**



Polyurethane Foam Cover (Optional)
 For use with vanishing oils and with thin stock which is narrow compared to overall roller width. Due to limited fluid compatibility, consult factory prior to selecting this option.

Use **P**

STEP 2 Select Option

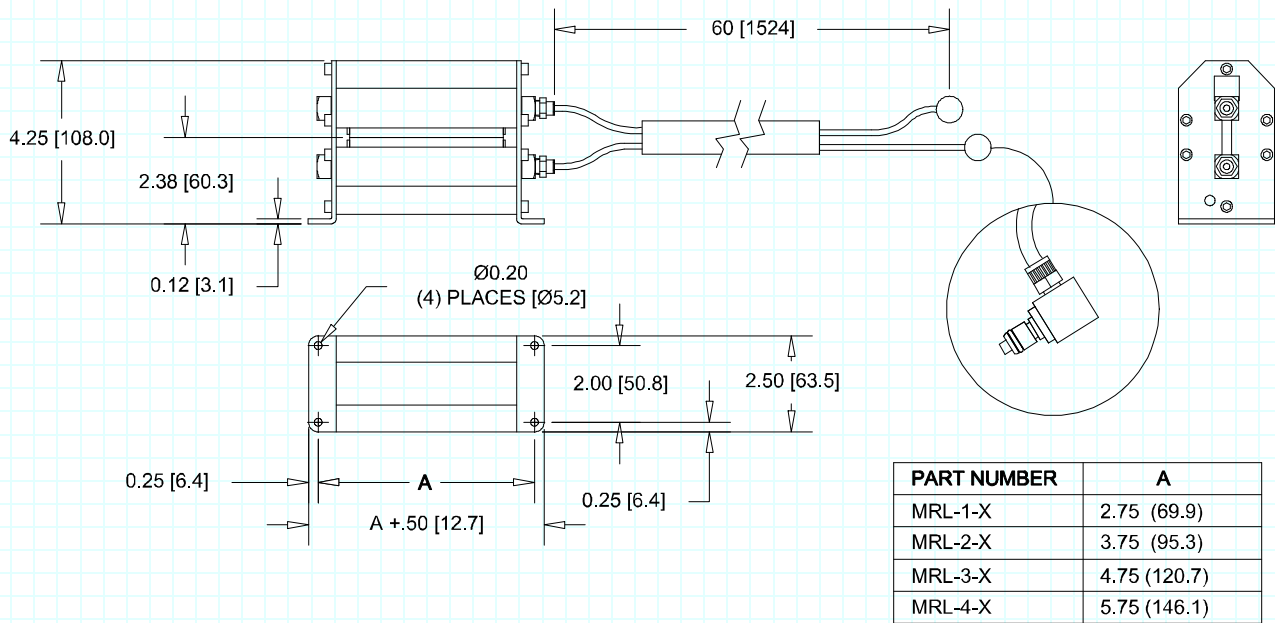


The **Rotation Sensor** option is used to provide an input to an SPR-2000 or SPR-2000-JR controller based on roller rotation. Select when an intermittent input signal is not available.

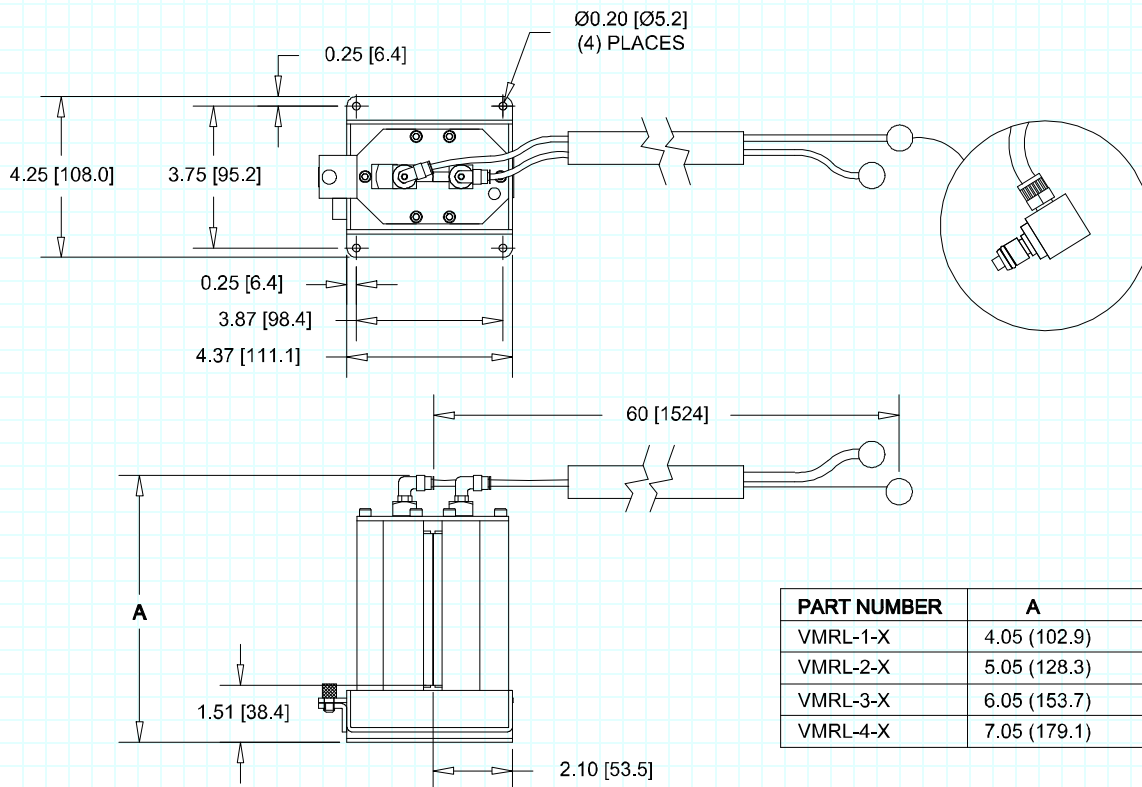
ORDER PART NUMBER: **305-3-081-NO**

Note: Order one per Mini-Roller system

Metalforming Lubrication Systems



Horizontal Mini-Roller
MRL-1/2/3/4-X



Vertical Mini-Roller
VMRL-1/2/3/4-X