

CHEMINSTRUMENTS
ROTARY DIE SLITTER
MODEL RDS-100
OPERATING INSTRUCTIONS

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PRODUCT DESCRIPTION

Congratulations on the purchase of your new ChemInstruments RDS-100 Rotary Die Slitter. This versatile, user-friendly, carefully designed instrument allows you to produce consistent, accurate samples. The RDS-100's rugged construction, safety, repeatability, small footprint, and ease of operation have made it an integral part of sample preparation for plants and laboratories worldwide.

The unit has the following features:

- Hard coat anodized, Teflon coated Bottom Roll
- Hardened rotary Die for accuracy and long life
- Enclosed Die for safety
- Cutting width of 9 inches (22.8cm)
- Forward and reverse direction control
- Suitable for slitting material 0" to 0.060" (0 to 1.5mm)
- Suitable for slitting paper and film

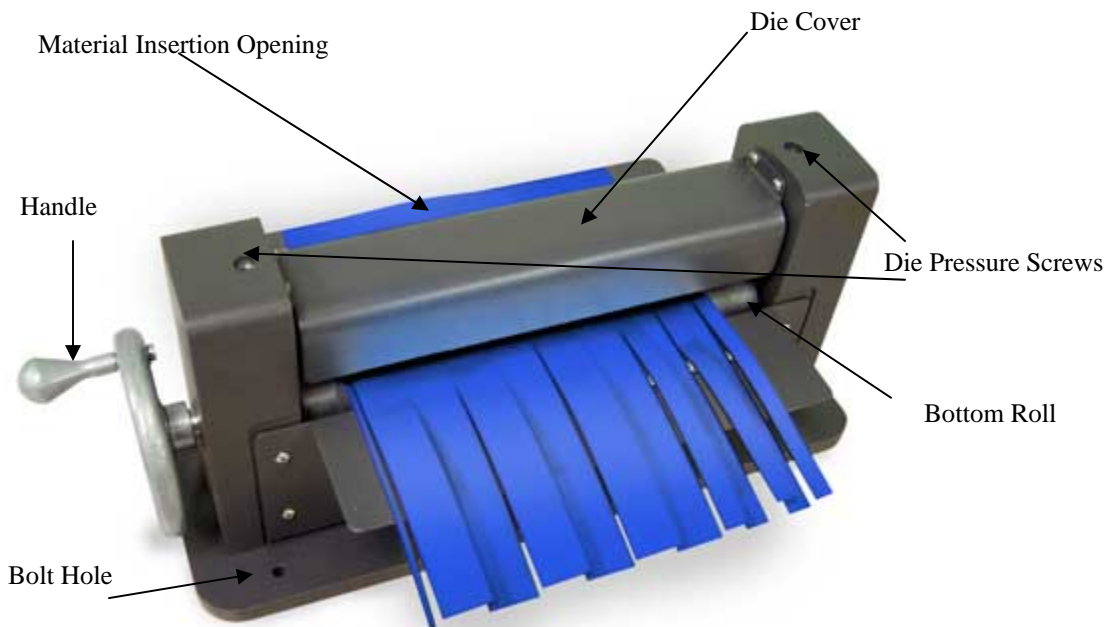


UNPACKING & ASSEMBLY

ChemInstruments has made every effort to ensure the RDS-100 arrives at your location without damage. Carefully unpack the machine, and check for damage that may have occurred during shipment. If any damage did occur during transit, notify the **carrier** immediately.

Once the RDS-100 has been carefully removed from the packaging, the machine should be placed on a sturdy bench top. The machine should be positioned with ample space to insert sample material, and freely turn the handle. The space required for the unit is approximately 19.5" long x 9" deep x 8" high. For safety reasons, the RDS-100 should be bolted to the work surface. The machine has 4 pre-drilled bolt holes (see **KEY COMPONENTS**).

KEY COMPONENTS



OPERATION

The RDS-100 is a hand operated machine. The Die rotates by turning the Handle. The Handle and rotary Die may turn in either direction. Die pressure can be changed by turning the Die Pressure Screws (see **KEY COMPONENTS**, page 3). Different materials will require different die pressures for optimal slitting. The Die Pressure Screws require a 3/16 inch Allen wrench (see **CUTTING DIE ADJUSTMENT** page 4).



Warning! Be careful not to apply too much pressure to the Die. Too much pressure will result in the Die bowing, which may prevent the Die from cutting evenly.

Material to be slit should be placed in the Material Insertion Opening while turning the Handle in the appropriate direction (see **KEY COMPONENTS**, page 3). **Be sure to keep hands free from Material Insertion Opening!** Once the machine begins to slit the material, it will automatically feed through the remainder of the material as long as the handle is being turned. Once slit, the material will exit the opposite side of the machine.



Warning! This equipment can cause injury if not used properly. It is the operator's responsibility to observe all safety rules and warnings.

CUTTING DIE ADJUSTMENT

The cutting Die of the RDS-100 is adjusted at the factory for cutting normal 20 pound paper. Cutting of different materials, and long term use, may cause the Die of the RDS-100 to need Die pressure adjustments. The following directions describe adjusting Die pressure for optimal operation.

1. Using a 3/16" Allen wrench, loosen the Die Pressure Screws (see **KEY COMPONENTS**, page 3) so there is no pressure on the Die.

2. Turn each Die Pressure Screw clockwise 1/4 rotation at a time, bringing each Die Pressure Screw into contact with the Die. Be careful not to tighten the Die Pressure Screws unevenly.
3. Visibly check to see that the Die is resting on the Bottom Roll (see **KEY COMPONENTS**, page 3).
4. Insert a sample of the material to be cut.
5. Turn the handle to rotate the Die and cut the sample material (see **OPERATION** page 4).
6. Inspect the material for even cutting across the entire width.
7. If the material is not cut properly, adjust the depth of cut by turning both Die Pressure Screws 1/8 rotation clockwise. Take care to do this evenly in order to maintain equal pressure across the full width of the Die.
8. If the center of the material is not being cut, but the outside edges are being cut, the Die has too much pressure. Repeat the procedure starting at step 1.
9. Repeat steps 4 – 8 until optimal cutting has been achieved.



Warning! Be careful not to apply too much pressure to the die. Too much pressure will result in the Die bowing, which may prevent the Die from cutting evenly.

MAINTENANCE

Over time, the die may require cleaning. To access the Die, remove the Die Cover. The Die Cover is held in place by 4 screws. Once the Die Cover has been removed, the Die may be cleaned using Chemsultants' Adhesive Remover.



Warning! Be extremely careful while Die Cover is removed, and while cleaning unit. The die is extremely sharp, and will cut you.

