

## Ultrasonic Slitter Model F-20

### General Description

The Branson Model F-20 Ultrasonic Slitter is designed for continuous slitting and edge sealing thermoplastic films, knitted, woven, and nonwoven materials such as nylon, polyester, polypropylene, modified acrylics, some vinyls, urethane, and synthetic blends. The ultrasonic slitting process prevents unraveling of knitted or woven material by sealing the slit edge with vibratory energy.

The Model F-20 operates with 2000bdc Series power supplies, converter, booster, carbide-faced horn, and a spring-on-air mounted cutting anvil. The unit is readily installed on materials handling devices such as looms, winders, and unwinders or re-rolls, and can be adapted for traverse slitting.

A slitter capsule assembly is available for custom installations when the slitter is part of an automated setup. The capsule assembly incorporates the air cylinder, springs, anvil mount, and associated hardware. (Horn, booster, anvil, and cooling requirements are determined by the application.)

### Key Features

- **Slitting rates** of 30 to 400 linear feet (9 to 120 m) per minute, depending on material and desired results.
- **Sealed edge is tapered** with no bead to add bulk to slit material.
- **Spring-on-air anvil mounting** prolongs tool life; horn/anvil contact points are renewable through rotation.
- **Integral cooling** for converter and horn.
- **Power supply compatibility** – The Model F-20 Slitter is compatible with Branson Model 2000bdc ultrasonic power supplies.



### Warranty

The Branson Model F-20 Slitter carries a three-year warranty on materials and workmanship, except for the following components: horn, anvil, and slitter capsule assembly, which are warranted for one year. Note: the converter warranty covers a one-time replacement within three years. These warranties apply to equipment purchased in the United States. For warranty information on units purchased outside the U.S., contact your local representative.

### Branson

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## Electrical Specifications

### Power requirements:

Satisfied by the power supply.

*Note: For complete power supply information, refer to Branson data sheet 2000b/bdc.*

## Mechanical Specifications

### Pneumatic requirement:

Clean (5 micron), dry air at 100 psig (690 kPa)

Maximum force exerted by anvil:

35 lbs. (156 N) at 80 psig (552 kPa)

(Adjustable force range 0-35 lbs. [0 -156 N])

### Weight:

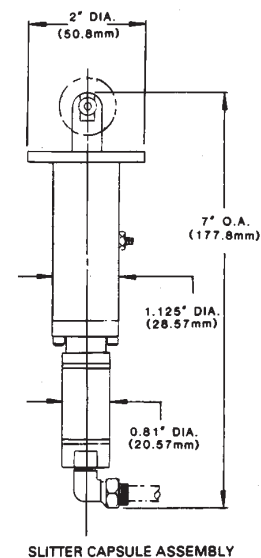
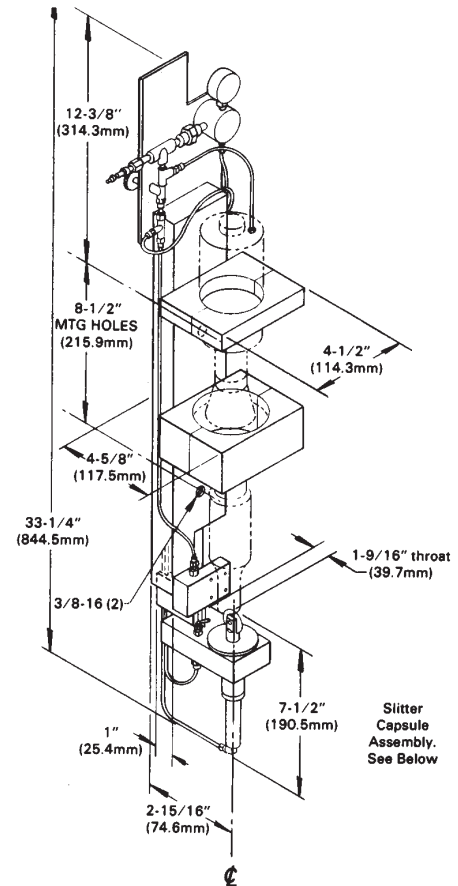
17-1/4 lbs. (7.82 kg) (includes converter, booster, and horn.)

## Ordering Information

*Note: All sales shall be subject to the Supplier's terms and conditions of sale as described in Branson's quotations and sales contracts.*

### Branson EDP No.

Model F-20 Slitter - includes slitter frame assembly, CR-20 converter (101-135-060), gold booster (101-149-092), carbide-faced horn, anvil (0.065" radius)		101-063-680
Model 2000 bdc Power Supply, 1100W, 117 V		101-132-661
Horn (carbide-faced, 1" diameter) (for separate reorder)		101-147-034
Anvil (0.065" radius, 1" diameter)** (for separate reorder)		100-187-013
Slitter Capsule Assembly		100-246-073
Cables		
J931 RF Cable	8'	101-240-017
	15'	101-240-012
	25'	101-240-007
J913 Start Cable	25'	101-240-072



\*See Data Sheet 2000b/bdc for complete ordering information.

\*\*Other anvils available on special order.

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