



Intelligent Assembly Solutions

UFF-1

SONIC SLITTER

*for Ultrasonic Fabric & Film
Slitting and Sealing*

OVERVIEW

Dukane UFF slitters are designed for continuous slitting and edge trimming of thermoplastic fabrics, films, and knitted, woven or nonwoven materials. Ultrasonic slitting cuts and seals the material simultaneously, eliminating fraying or unraveling while producing a clean, tapered, bead-free edge. Typical applications include slitting roll goods to size, splicing rolls, traverse slitting and cut to length.

Tooling changeover is simple and quick. These versatile units are easily integrated into material handling devices such as winders/rewinders and looms. The UFF-1 Sonic Slitter operates with Dukane H.D. Probe Systems. A carbide-faced horn and slitting anvil are also required.

FEATURES

- Rugged, tubular steel frame construction using the highest quality components provides superior performance, precision, and reliability.
- Frame design is rigid and lightweight for easy machine mounting to unwind and traversing systems.
- The air regulator and flow valve are standard. The anvil capsule is air actuated via pneumatic cylinder. The manifold with flow valves allows independent adjustment of the required air volume for cooling transducer, horn and anvil area. The efficient air plumbing on the Sonic Slitter keeps the unit sleek and compact.
- The transducer and booster mounting clamp rings are mounted on steel rods. Their splitting design allows for easy stack (i.e. transducer-booster-horn) adjustment during machine mounting, as well as stack rotation or removal. The stack is also adjustable vertically for setting the proper gap between horn face and anvil stroke.
- An air cylinder actuates the anvil. Maximum stroke length is 0.25." The anvil capsule can be rotated 90° to accommodate either center or edge slitting. Anvils are available in either the standard 1" diameter, or an optional 2.5" diameter.



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SPECIFICATIONS

Pneumatic Requirements

- 5-100 psi of clean, dry air
- 1/4" NPT air line connection

Mechanical Specifications

- Approximate Force exerted by anvil @ 100 psi = 80 lbs
- Height: 25.00"
- Width: 6.00"
- Depth: 27.00"
- Weight: 17.25 lbs

Requirements

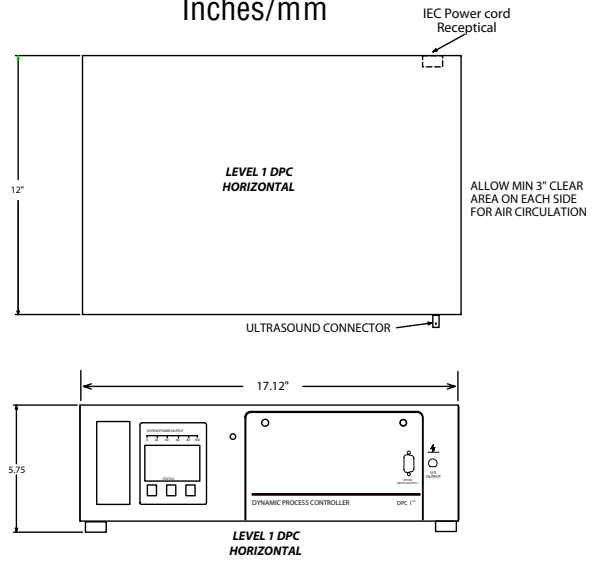
- Dukane probe system (sold separately)
- H.D. booster (sold separately)
- Carbide slitting horn (sold separately)
- Slitting anvil (sold separately)

Mounting

- Frame holes are provided on the back of the UFF-1 slitter.

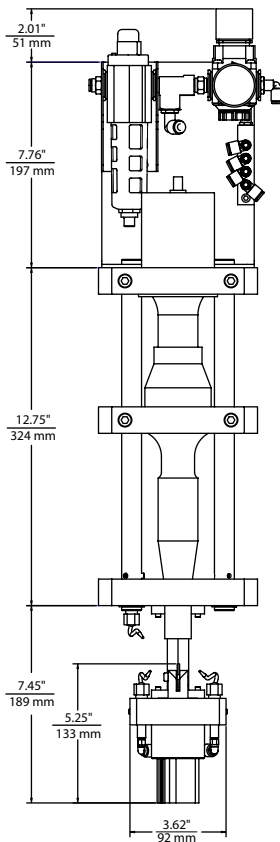
Dimensions

Inches/mm

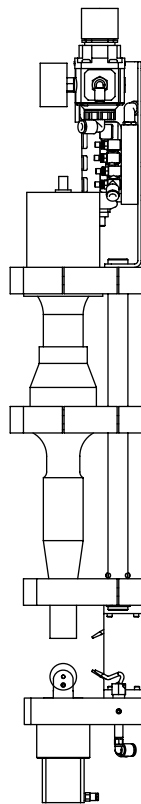


Dynamic Process Controller

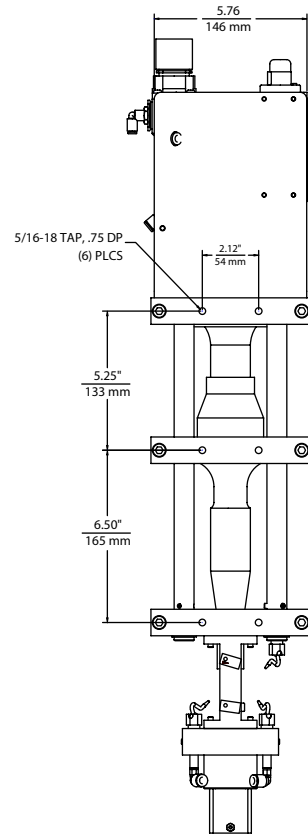
Height: 5.75 inches (146mm)
 Width: 17.12 inches (435mm)
 Depth: 12.00 inches (305mm)



Front



Side



Back

These drawings represent typical components and are not to scale.
 Note: All specifications are subject to change without notice. Please consult Dukane for any updated information.