



Ultrasonic Cylinder Arm Machines

Specialized assembly system for bonding synthetic fabrics and nonwoven materials. Ideally suited for side seams and producing curved or circular piece goods.

General Description

Sonobond Cylinder Arm Machines are specially constructed ultrasonic fabrication systems for producing high quality felled and flat bonded seams in synthetic fabrics and nonwoven materials. A choice of pattern wheels is available to achieve a variety of stitch patterns.

As the name implies, the unique feature of the machine is a cylindrical "arm" extension which allows materials to be "sewn" (fused) in cylindrical shapes. Sonobond offers specialized equipment to handle both off-the-arm and around-the-arm applications. The Off-the-Arm model directs the fabric down the length of the arm. It is ideal for making side seams in sleeves, pant legs, jackets, dresses, and swimwear. The Around-the-Arm model directs curved and circular-shaped fabrics across the extension arm. It is ideal for attaching sleeves, cuffs, collars and binding. It can also be used for continuous or intermittent straight line bonding.

Features and Benefits

- Unique arm extension specially designed for cylindrical fabrics
- Off-the-Arm model produces lengthwise seams
- Around-the-Arm model attaches sleeves, pant legs, etc., and is also adaptable for straight line sewing
- Strong, ultrasonically-bonded seams leave no holes, require no consumables
- Extra-long 24-inch arm extension available for special filtration applications
- Around-the-Arm model is easily converted to a flat bed unit for greater flexibility
- Can be used with standard folders as well as unwind and rewind attachments

Applications

- Sleeves
- Filters
- Pant Legs
- Edge binding
- Cuffs
- Surgical gowns and show covers
- Vests
- Other medical disposables
- Swimwear



Theory of Operation

Sonobond Cylinder Arm Machines are easy to use and operate. Operation is very similar to off-the-arm and around-the-arm sewing machines. The arm easily slips through cylindrical shaped fabrics like a sleeve. The operator then fuses the cylinder shaped fabrics using an ultrasonic bonding head mounted on the end of an extension arm.

Using the Around-the-Arm model, the operator simply slips the cylinder, such as a sleeve, over the arm. The operator then fuses the sleeve to the garment using the around-the-arm ultrasonic bonding head. In the Off-the-Arm model, the fabric feeding mechanism is aligned with the lengthwise axis of the arm. The head fuses fabrics into cylinders as the operator feeds them through the head and off the arm. The drive speed is controlled effortlessly with a foot pedal.

Other Features and Benefits

- Provides exceptional bonding performance, superior to heat sealing or gluing methods
- Eliminates thread changeovers
- Can be used with added fusible or heat-activated tape feed
- Ideal for producing crucial barrier seams in medical disposables
- Freestanding, table- or pedestal-mounted units available
- Works with a variety of fabric weights and thicknesses
- Easy to operate with only minimal training required
- Custom tooling available for specific applications
- Fully supported by Sonobond's technical experts



Around-the-Arm model



Off-the-Arm model

Specifications

Ultrasonic Head Height: 40" from table top
Width: 36"
Depth: 20"
Weight: including head, arm assembly and table 320 lbs.
Air requirements: 2 SCFM, 85psi

Power Supply Height: 7"
Width: 17"
Depth: 17"
Weight: 32 lbs.
Power requirements: 115/120 volts,
20 amps

Ordering Information

SureWeld 800, Off-the-Arm (OTA) model or
SureWeld 800, Around-the-Arm (ATA) model
Option: Adjustable height pedestal support

Specifications are provided for information only and are believed to be accurate. However, no responsibility is assumed by Sonobond Ultrasonics for their use. Ongoing product development and improvement may cause changes without notice.

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