

BelSonic SeamStar BS ATA & BS OTA

Continuous ultrasonic sewing machine ideally suited for side seams and producing tubes or circular piece goods



The BelSonic SeamStar *BS ATA OR OTA* Cylinder Arm Machines are specially constructed ultrasonic machines for producing high quality felled and flat bonded seams in synthetic fabric and nonwoven materials. A choice of pattern wheels is available to achieve a variety of stitch patterns.

The OTA or Off-The-Arm machine is equipped with an L shaped arm that directs the fabric down the length of the arm. It is ideal to make tubes, sleeves, panty legs, bags, tubes, etc.

The ATA or Around-The-Arm machine is equipped with a canon shaped extension arm at the left side of the machine. It is ideal for circular shaped operations as attaching sleeves, cuffs, collars and binding.

The pattern wheels of both the OTA and the ATA machines are interchangeable and inserted into the extension arms.

Your advantages

- Unique arm extension L-shaped or canon shaped specially designed for cylindrical fabrics
- Off-The-Arm model produces tubes for lengthwise seams
- Around-The-Arm model attaches sleeves, cuffs pant legs etc. and is also adaptable to straight line welding
- Strong, ultrasonically-bonded seams leave no holes, require no consumables
- Extra long 65 cm arm is available for special filtration tube applications
- Around-The-Arm model is easily converted to a flatbed machine for greater flexibility
- Can be used with standard fabric folders as unwind and rewind attachments
- Ideally for producing crucial barrier seams in medical disposables
- Free standing table- or pedestal mounted units available
- Works with a variety of fabric weights and thicknesses
- Easy to operate with only minimal training required
- Custom bonding tooling available for specific applications
- Fully supported by Belsonic's technical experts



Applications

The *BelSonic SeamStar BS OTA and ATA* offer a production alternative for cutting and/or welding of synthetic fabrics. Materials best suited for ultrasonic bonding are made of 100% synthetic or thermoplastic fibres. Blends with a maximum of 40% natural fibres can possibly also be used.

The *BelSonic SeamStar BS OTA and ATA* can be used with following materials : polyester, polypropylene, nylon, acrylics, PU coated fabrics, etc. These materials can be (non-)woven, needle felts, knits, films and laminates.

Product application will include : Filtration, Body armor, Lingerie, Disposable garments , Carpets, Belts, Technical textiles, Packaging, Isolation (airplane covers, construction), Roller blinds, etc.

Ultrasonic Energy

Ultrasonic bonding is accomplished by channelling high-frequency vibrations to the fabric. As synthetic or nonwoven material passes between the ultrasonic horn or sonotrode and the pattern wheel or roller, the vibrations are directed into the fabric where they create a rapid heat build-up. This heat causes the material's synthetic fibres to melt and fuse, creating bonded seams that will not fray or unravel and provide a full barrier.

Technical Features

Frequency:	20 kHz
Size:	920 mm wide x 510 mm long x 1012 mm high
Weight:	85 kg
Tension:	220 V
Tuning:	automatic
Control panel:	on the generator
Max. roller width:	
- OTA	8 mm
- ATA	5 mm
Horn:	stationery
Air pressure:	6 bar maximum

