

BelSonic SeamStar Modules

Ultrasonic module to incorporate into custom built and automated production lines for the technical textile industry.



Patterns wheel assembly

An ideal and cost-effective way to incorporate continuous ultrasonic seaming, slitting or cross-cutting into custom built and automated production lines for the technical textile industry.

These modules feature a rotary ultrasonic system used in conjunction with a rotary pattern wheel to produce superior cutting & sealing results than stationary methods.

The ultrasonic *BelSonic SeamStar modules* offer a variety of welding and cutting patterns that can be used to perfectly fuse and seal seams for both non-woven en woven materials.

All *BelSonic SeamStar modules* include a motor drive for the ultrasonic system and for the pattern wheel.



Acoustic assembly

Your advantages

- runs problem free in continuous operation
- seams, trims, add seals without thread, glue, or other consumables
- requires only one pass through the machine
- more efficient than sewing, heat sealing or stationary ultrasonic operations
- eliminates fraying or unravelling of bonded edges and seams
- cuts and seals simultaneously
- allows for a large variety of different pattern wheels to be used
- single, multi or dual head arrangements
- requires minimal operator training



multi-head arrangement

Applications

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

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

Product applications include :

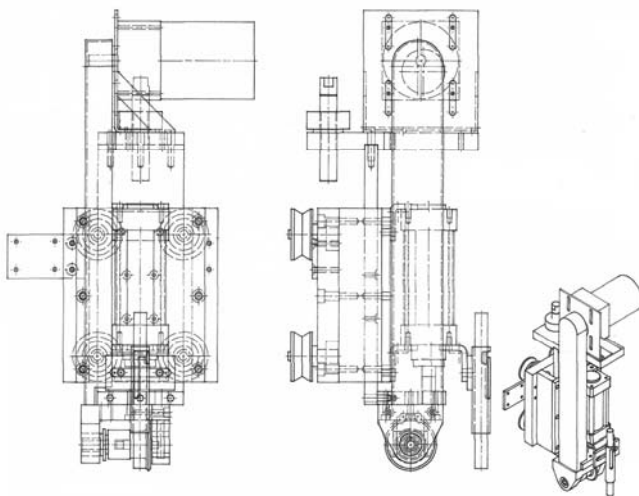
- disposable fabrics,
- carpets,
- slitting of roll goods,
- splicing of roll ends,
- insulation products,
- etc.



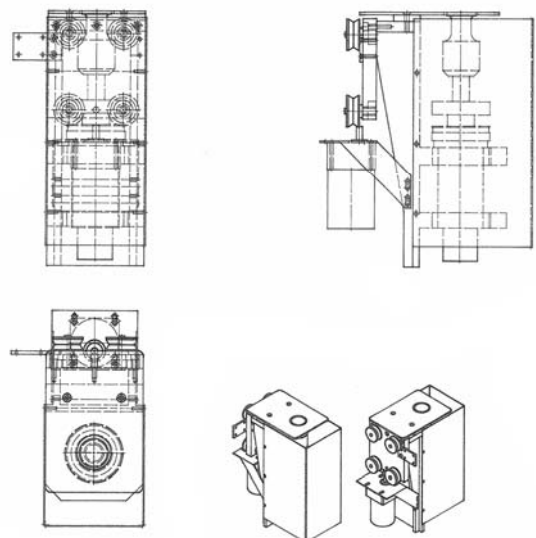
integration in custom-built machine

Technical Features

Frequency :	20 kHz
Size :	
Weight :	
Tension :	220 V
Tuning :	automatic
Pattern wheel holder :	standard
Max roller width :	50 mm
Max horn surface diam :	BS 2000 S : 25mm BS 2000 L : 50mm



Pattern wheel assembly



Acoustic assembly