

S-91

High-Ply Cutter



High-performance cutter features vacuum hold-down for optimum accuracy, speed

The S-91 high-ply cutter provides users with the benefits of speed, flexibility, and accuracy, in addition to saving fabric and labor. Up to 76 mm (3 inches) of compressed fabric can be consistently and accurately cut, utilizing Gerber's high-efficiency vacuum hold-down system. Cutting precision is assured with features such as automatic knife sharpening and Knife Intelligence®, which automatically accommodates for blade deflection, and variable knife-speed control. The S-91 is the most reliable cutter for high-volume, high-quality cutting, ideal for heavy-duty material such as denim.

Highlights

- Windows® multitasking operating system, with C200 MT graphic user interface
- Conveyorized and static table systems
- GERBER BRISTLE SQUARE® work surface allows knife penetration while assuring optimum vacuum hold-down of the plies
- Preloaded setup files automatically customize the cutter for a wide variety of materials
- Automatic Cut File Optimization: Common Line, Path Optimization
- Queue Manager allows cutting from multiple predetermined "cut queues"
- Preprogrammed self-diagnostic and trouble-shooting capabilities

- Can be on-line or off-line to GERBERmarker™ systems

The S-91 high-ply system's computer-aided accuracy increases sewing room productivity. Accurately cut pieces and notches ensure that sewing operators waste no time in realigning and matching parts. Users realize improved cutting room flexibility as well. Style and fabric changes can be made more quickly than with manual methods, giving the system owner the quick turnaround so necessary in a quick response, highly competitive marketplace.

S-91-TCW

Product Specifications

System Configuration

- Long vertical knife stroke cuts cleanly from top ply to bottom ply.
- Automatic knife re-sharpening maintains cutting efficiency.
- Knife Intelligence maintains accuracy from top ply to bottom ply.
- 7.6cm (3.0 in.) maximum compressed fabric height
- 1.83m (72 in.) cut width (for wider widths see options below)
- 30.5m/min. (1200 in/min.) maximum cutting speed
- 2.4m/s² (1/4 g) maximum head acceleration
- Long-life knife blades and variable knife-reciprocation speed control
- Automatic power conservation mode
- Comprehensive operator and technician training

Table Characteristics

- GERBER BRISTLE SQUARE® cutting surface allows knife blade to penetrate surface without damage & concentrates vacuum at cutting location.
- Integrated vacuum system holds materials securely in place for effective and accurate cutting.
- Vacuum exhaust stack recycles heated air
- Vacuum resealer (optional on static)
- Bristle cutting surface automatically conveys material from spreading table through cutter.
- Take off table moves cut parts from cutter into bundling area.
- Overall length 8.1 m (318 in.)
- Cutting window length: up to 424cm (167 in.)
- Overall width 3.0m (120 in.)
- Table height. 90-95cm (35.5 - 37.5 in.)
- Table weight 5,454kg (12,000 lbs.)

Cut Data File Specifications Supported

- Interface to open standard data formats produced by most CAD products
- Gerber public domain Input Data Specifications, Document 40309-S00-011A based on EIA RS-274-D.
- Gerber AccuMark™ native marker data

Control Features

- C-200 Operator Control Console and Software
- Advanced model high quality PC, complete with keyboard, monitor, mouse, and Windows® operating system
- Fully network-compatible
- Easy-to-use graphical user interface (GUI)
- Sophisticated cut data file handling
 - ◊ Modify notch and cutter parameter tables at the cutter
 - ◊ Cut data file queuing (scheduling)
 - ◊ Automatic cut data file optimization; merging duplicate cut lines into single common lines, optimizing cut path
 - ◊ Automatic SMARTbite™ calculation



- Display of cut data geometry on screen
 - ◊ Preview geometric data for error prevention
 - ◊ Preview piece cutting sequence
 - ◊ Display cut pieces as cutting progresses
- Continuous display of operating parameters: Vacuum level, cut speed, etc.
- Pre-loaded with library of expert setup files providing initial Knowledge-Base
- Storage of cutting setup parameter files for future use
- Flexible software control of cut speed and knife-speed to increase throughput
- Software screens and manuals available in many languages
- Metric and Imperial data capabilities
- State-of-the-art embedded digital motion controller
- Maintenance Manager automatically monitors required hardware maintenance items and notifies operator of maintenance procedures. Ensures compliance through special password security and adherence to required maintenance.

Options

- Lateral travel kit enables cutter to move between multiple spreading tables
- Time Management Reporting (CIDB Cutter Information Database) automatically tracks and collects throughput data
- Optional drill (single or dual)
- Bar code reader for data input cut file and setup file
- Comprehensive training programs
- Complete service packages available
- Cut Path Intelligence

Power Requirements

Table Power:

81amps at 380V 3 PH, 50/60 Hz

64amps at 480 V 3 PH, 50/60 Hz

55 amps at 575V, 3 PH, 60 Hz

Control Power Requirements

3-wire 220v single-phase, 40 amp, 50/60 Hz

Average Power Consumption

38 KW average for 3-phase system

Compressed Air Requirements

11.3 liters/min., 6.8 bar compressed air (4 SCFM at 100 PSI)

Operating Environment

Maximum temperature: 43°C (110°F)

Maximum humidity: 95% (non-condensing)

NOTE: Specifications and options apply only to S-91TCW configurations. Other available S-91 configurations include:

- Zoned Vacuum Conveyor (ZVC)
- Zoned Vacuum Conveyor with Dual Head & Beam
- Static (non-conveyor) bristle tables

Specifications for those configurations are available on request

Specifications are subject to change without notice.

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