



Accurate, consistent cutting on low-profile, conveyORIZED system

The GT5250 cutter is designed to achieve the highest productivity and greatest cut quality with a minimum of operator intervention. Several standard cutting bed lengths, widths and heights are available, to match your spreading tables. Industrial-strength, reinforced polymer panels offer attractiveness as well as utility.

The low profile GT5250 cutter features Cut-Path Intelligence, Intelligent Zoned Vacuum Controls, and Knowledge-Based Application Expertise to provide the most accurate, consistent, and productive cutting. The swing-arm operator control console is close to the body of the cutter, minimizing floor space

required and clear of the take-off area, providing easy access to cut parts.

The GT5250 is a bite-feeding conveyORIZED system using Gerber's SMARTbite™ feature to automatically determine fabric lay advances through the cutter. Cut parts are transferred to the take-off table as uncut material is moved onto the cutting surface. Uptime and productivity are assured with on-board diagnostics and extremely reliable components throughout.

Highlights

- *Cut Path Intelligence*
Sophisticated sensing techniques

control cutting speed for maximum quality and throughput.

- *Knife Intelligence*®
This unique Gerber feature, standard on the GT5250, ensures perfect top to bottom cutting accuracy.
- *Graphic User Interface*
Interactive, on-screen reporting of cutting parameters. Continuous display of marker during cutting. Large color flat screen display for easy viewing.
- *Zoned Vacuum Intelligence*
Microprocessor control of vacuum across cutting surface. Improves cut quality while reducing overall power consumption.

GT5250

General Specifications

System Configuration

- Long vertical knife stroke cuts cleanly from top ply to bottom ply.
- Automatic knife re-sharpening maintains knife blade cutting efficiency.
- Knife Intelligence maintains accuracy from top ply to bottom ply.
- 5.2cm (2.05 in.) maximum compressed fabric height
- 1.7m (67 in.) cut width (for wider widths see options below)
- 9.5m/min. (375 in/min.) average throughput, depending on application
- 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
- 75dB noise level
- Automatic power conservation mode
- Comprehensive operator and technician training

Table Characteristics

- GERBER BRISTLE SQUARE® cutting surface allows knife blade to penetrate surface without damage
- Integrated vacuum system holds materials securely in place for effective and accurate cutting.
 - ◊ Integrated "intelligent" zoned vacuum concentrates hold down at cutting location
 - ◊ Vacuum exhaust stack recycles heated air
- Bristle cutting surface automatically conveys material from spreading table through cutter.
- Conveyor take off table moves cut parts from cutter into bundling area.
- Table heights: 75cm (29.5 in.), 80cm (31.5 in.), 86cm (34 in.) and 91cm (36 in.)
- Overall length 4.37m (172 in.)
- Cutting window length: up to 170cm (67 in.) (for longer lengths see options below)
- Overall width 2.34m (92 in.) (shipping width)
- Table weight Total: 2,318kg (5,100 lbs.)
- Weight per wheel:
 - ◊ Take-on end 682kg (1,500 lbs.)
 - ◊ take-off end-2 at 818kg (1,800 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-S00-01 IA 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

- Extended widths: 2m (79 in.), 2.4m (94.5 in.), and 3.3m (130 in.), cuttable
- Extended length: cutting window extended to 254cm (100 in.) making overall length: 6.6m (260 in.), including conveyORIZED takeoff table (CTOT)
- Lateral travel kit enables cutter to move between multiple spreading tables
- Integrated vacuum resealer to maintain vacuum (strongly recommended)
- Vacuum regulation (selected amount of vacuum allowed during cutting)
- Single fabric drill, up to 6.3mm (0.250 in.)
- Optional second drill, up to 6.3mm (0.250 in.)
- Time Management Reporting (CIDB Cutter Information Database) automatically tracks and collects throughput data
- Cut Path Intelligence
- Continuous Cutting
- Automatic bristle cleaning system
- Right side operation moves controls to

opposite side of machine

- Bar code reader for data input cut file and setup file
- Complete service and parts supply packages

Power Requirements

Table Power:

108 amps at 200V 3 PH, 50 Hz
88 amps at 240V 3 PH, 60 Hz
44 amps at 480V 3 PH, 60 Hz
96 amps at 220V 3 PH, 50 Hz
55 amps at 380V 3 PH, 50 Hz
37 amps at 575V 3 PH, 60Hz

Control Power Requirements

3-wire 220v single-phase, 30 amp, 50/60 Hz

Average Power Consumption

24 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)

Standard vacuum system to 760 m (2,500 feet) above sea level (optional vacuum control available for higher altitudes)

NOTE: Configurations vary according to options selected by customers.

Specifications are subject to change without notice.

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Gerber products containing lasers comply with 21 CFR, Sub-chapter J, as applicable

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