

g-spreader auto

Maximize your fabric processing efficiency with G-Spreader

Looking for a precise and cost-effective fabric spreading solution that saves both time and energy? Choose the G-Spreader machine

The **G-Spreader Auto** is a fully automated fabric spreading machine designed to streamline the production process with minimal human intervention. Effortlessly unwind and spread fabric rolls or plated fabrics. Designed for all fabric types, including heavy materials, these machines ensure smooth operation with automated speed control, reducing errors and ensuring consistent results. Equipped with a rotary spreading head, they support efficient **"face-to-face"** and **"zig-zag"** spreading patterns.



Working Principle

- Step 1 – Fabric Loading

Fabric roll or plated fabric is mounted onto the spreading unit.
- Step 2 – Controlled Spreading

Machine spreads fabric with automatic tension and speed control.
- Step 3 – Guided Alignment

Ensures proper edge alignment and smooth layering.
- Step 4 – Pattern Spreading

Performs Face-to-Face or Zig-Zag spreading as per production requirement.
- Step 5 – Uniform Layer Formation

Creates consistent, perfectly aligned fabric layers ready for precision cutting.

Operational Performance Impact

INDUSTRY PROBLEM	G-SPREADER AUTO SOLUTION
Uneven fabric layer alignment	Ensures perfectly aligned and uniform layers
High dependency on skilled labour	Fully automated operation reduces manpower requirement
Speed inconsistency during spreading	Intelligent automatic speed control maintains uniform output
Fabric wastage due to manual errors	Controlled spreading minimizes material loss
Operator fatigue affecting accuracy	Automation delivers consistent, repeatable performance
Difficulty handling heavy or stretch fabrics	Designed to handle lightweight to heavy fabrics smoothly
Inconsistent spreading patterns	Supports Face-to-Face and Zig-Zag spreading modes
Production delays due to manual setup	Quick setup and automated workflow improve efficiency
 Uneven Layers  High Labor Requirement  High Fabric Waste  Speed Inconsistency  Perfectly Aligned Layers  Automated Operation  Minimized Fabric Waste  Consistent Speed	

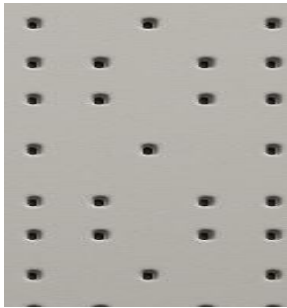
WHY CHOOSE G-SPREADER AUTO

Operational Area	Performance Benefit	Result
Fabric Alignment	Precise edge-to-edge layer formation	Improved cutting accuracy
Speed Control	Uniform, automated spreading speed	Higher daily production output
Labour Management	Reduced manual involvement	Fewer operators required
Fabric Handling	Smooth control of all fabric types	Reduced damage and distortion
Material Utilization	Optimized spreading accuracy	Reduced fabric wastage
Workflow Efficiency	Continuous and stable operation	Shorter production cycle time
Quality Control	Consistent layer uniformity	Reduced rejection and rework
Process Automation	Intelligent system control	Minimal human error

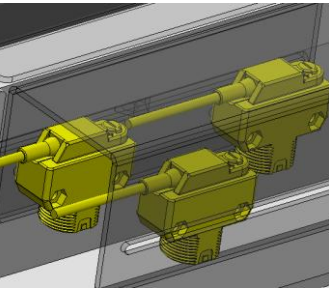
In-Built Fabric Pre-Relaxation:

The G-SPREADER AUTO is equipped with a single-stage 45° air-assisted fabric support system that allows the fabric to pass smoothly before spreading. This controlled airflow mechanism helps release minor internal tension, enabling stable and distortion-free layer formation during spreading.

Note: For complete tension release and full stabilization, G-RELAX PRO is recommended prior to spreading.



Single-stage 45° air flotation



Accurate Edge Control with One-Side Alignment

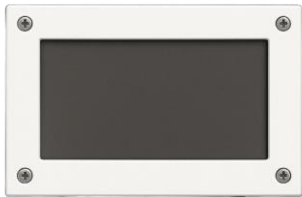
Photoelectric edge sensors continuously monitor fabric position to ensure accurate tracking and straight lay formation. The one-side edge alignment system maintains a consistent reference line, ensuring straight lay and improved cutting accuracy.

One Side Edge Alignment System

User-friendly interface with customizable settings

Equipped with an easy-to-operate HMI control panel for quick and simple setting adjustments. Operators can customize parameters to suit different fabric types and production requirements.

G-Spreader Auto is also available with PC-based control, providing enhanced monitoring, data management, and advanced operational flexibility.



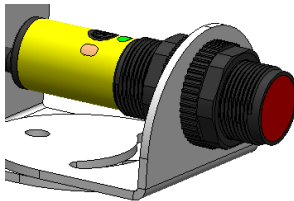
HMI / PC

Safety & Compliance

- Equipped with integrated safety sensors for continuous operational monitoring and protection.
- Emergency stop switches enable immediate machine shutdown during critical situations.
- Overload protection system safeguards motors and electrical components.
- Guarded moving parts enhance operator safety and minimize workplace risks.
- Designed in compliance with industrial electrical and safety standards for reliable operation.



2 Emergency stop switches



Safety Sensor

Key Features

- Automated Fabric Spreading with precision.
- User-friendly interface with customizable settings.
- Automatic Speed Control & Edge Alignment.
- Efficient Layering for Versatile Fabric Handling.
- Flat fold tray for Easy Fabric Handling.
- Maintains optimal fabric tension to prevent distortion.
- Rotary spreading head for "face-to-face" and "zig-zag" patterns.
- Integrated Safety Sensors.
- Automatic Fabric End Cutter.
- Custom Table Length Configuration.

Technical Specifications

SPECIFICATION	G-SPREADER AUTO -110	G-SPREADER AUTO -180	G-SPREADER AUTO -200	G-SPREADER AUTO -220
Machine Model	# GS-45-100-00	# GS-70-100-00	# GS-78-100-00	# GS-86-100-00
Power Supply	220-230V AC (single-phase), 50/60 Hz, 32 Amps	220-230V AC (single-phase), 50/60 Hz, 32 Amps	220-230V AC (single-phase), 50/60 Hz, 32 Amps	220-230V AC (single-phase), 50/60 Hz, 32 Amps
Power Consumption	3.0 kW	3.0 kW	3.0 kW	3.0 kW
Dimensions (L X W X H in mm)	2510 x 2030 x 1700	2510 x 2730 x 1700	2510 x 2930 x 1700	2510 x 3130 x 1700
Weight	320.0 kg	475.0 kg	525.0 kg	575.0 kg
Load Capacity	100 kg max.	100 kg max.	100 kg max.	100 kg max.
Operating Temperature Range	25°C - 58°C	25°C - 58°C	25°C - 58°C	25°C - 58°C
Noise Level	≤60 dB	≤60 dB	≤60 dB	≤60 dB
Fabric spreading Width	Typically, 1100 mm	Typically, 1800 mm	Typically, 2000 mm	Typically, 2200 mm
Speed	Up to 100 m/min	Up to 100 m/min	Up to 100 m/min	Up to 100 m/min
Roll Diameter (mm)	Customizable, typically 450	Customizable, typically 450	Customizable, typically 450	Customizable, typically 450