

g- matching table

Precision Alignment. Zero Shift. Maximum Efficiency

The G-Matching Table is a reliable and cost-efficient solution for precise pattern and pin alignment.

Designed for pattern-sensitive fabrics such as checks, stripes, and yarn-dyed materials, it ensures accurate alignment during fabric laying. Precision pins hold layers securely, preventing shifting, eliminating manual errors, and avoiding cutter collisions—resulting in consistent pattern matching, reduced fabric waste, and improved productivity

An ideal solution for high-quality fabric processing.



Working Principle

- Step 1: Fabric Spreading

Fabric is laid on the table layer by layer as per the required lay height.
- Step 2: Pin Engagement

Precision pins rise from beneath the table and engage the fabric at defined points to hold layers securely in position.
- Step 3: Alignment Control

Pins maintain accurate alignment of patterns (checks, stripes, etc.) by preventing any fabric shifting or distortion.
- Step 4: Layer Build-Up

Additional fabric layers are spread while maintaining consistent pattern matching across the entire lay.
- Step 5: Pin Retraction

Once spreading is complete, the pins retract smoothly back into the table.
- Step 6: Ready for Cutting

The perfectly aligned fabric lay is ready for cutting without misalignment or pattern mismatch.

Operational Performance Impact

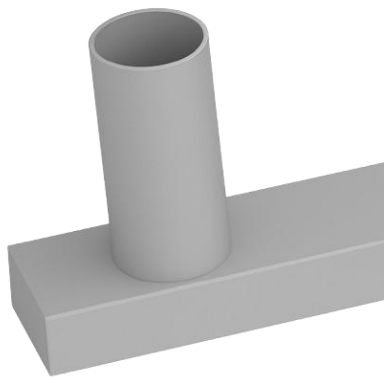
Industry Problem	G-Matching Table Solution
Manual alignment leads to inconsistent pattern matching	Automated pin-based system ensures precise and repeatable pattern alignment
Fabric shifting during spreading causes mismatches	Pins securely hold layers in place, preventing movement
High fabric wastage due to misalignment	Accurate alignment reduces rejection and fabric loss
Time-consuming manual adjustments	Faster spreading and alignment improve production speed
Risk of cutter collision due to uneven layers	Stable fabric holding ensures safe and smooth cutting operations
Rework due to pattern mismatch	Eliminates errors, reducing rework and improving efficiency
Difficulty handling yarn-dyed checks and stripes	Designed specifically to handle complex pattern-sensitive fabrics
Inconsistent quality across batches	Ensures uniform quality and repeatability in every lay
Layer misalignment after pin removal	Thread tying feature maintains alignment even after pin retraction
Problem: Misaligned Checks & Stripes Fabric Layers Shifting Inaccurate Cutting Slow & Labor Intensive	Solution: Pins Ensure Precise Matching Layers Secured with Pins Clean & Precise Cuts Fast & Consistent Process

WHY CHOOSE G-MATCHING TABLE?

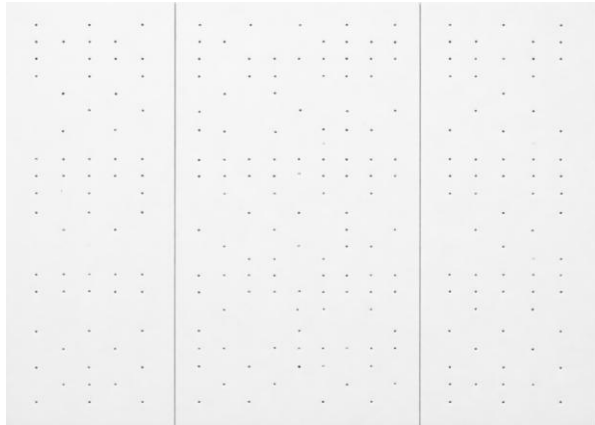
Operation Area	Performance Benefit	Result
Fabric Alignment	Precision pin-based alignment system	Accurate pattern matching across entire lay
Fabric Holding	Secure pin engagement with thread tying	No layer shifting, even after pin removal
Pattern Matching	Controlled alignment for checks/stripes	Consistent and flawless matching
Fabric Spreading	Reduced manual intervention	Faster and smoother spreading process
Material Utilization	Minimized alignment errors	Reduced fabric wastage
Cutting Process	Stable and uniform fabric layers	Safe cutting with no cutter collision
Operator Dependency	Less reliance on skilled labor	Improved consistency and ease of operation
Production Efficiency	Streamlined workflow	Increased productivity and reduced cycle time
Quality Control	Uniform alignment across layers	High-quality output with minimal defects
Process Reliability	Repeatable and controlled operation	Consistent results in every batch

Air Flotation System

- Creates a uniform air cushion between fabric and table surface for smooth movement.
- Reduces friction, making fabric spreading and positioning easier.
- Prevents fabric distortion during handling.



Air flotation



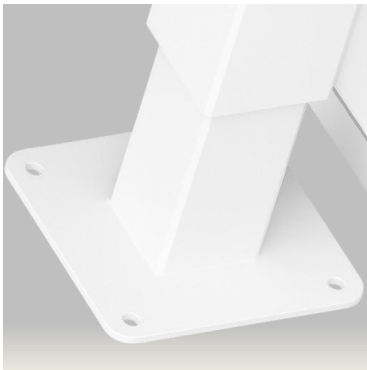
Pin Table

Precision Pin Table

- Equipped with a precision pin grid for accurate pattern alignment.
- Holds fabric layers firmly to prevent shifting during spreading and cutting.
- Supports pre-thread tying to maintain alignment even after pin removal.

Needle Support System

- Provides stable backing for pins/needles across the table surface.
- Ensures uniform penetration and support for multi-layer fabrics.
- Enhances durability and consistency during operation.



Needle Support

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

Key Features

- Pin-Based Fabric Alignment ensures accurate pattern matching across layers.
- Automatic Pin Adjustment prevents cutter collision during cutting.
- Adjustable Needle Heights & Diameters suit different fabric types.
- Customizable Pin Placement adapts to various pattern requirements.
- High-Density Pin Grid provides uniform support and alignment.
- Thread Pre-Tying maintains alignment after pin removal.
- Anti-Shift Layer Locking prevents fabric movement.
- Flat & Rigid Table ensures stable and accurate cutting.
- Wide Table Range fits different production needs.
- Efficient Layer Spreading improves speed and control.
- Cutter Compatibility works with manual and auto cutters.
- Low Maintenance & Easy Operation ensures smooth usage.

Technical Specifications

SPECIFICATION	G- MATCHING TABLE
Machine Model	# GMT-70-400-00
Power Supply	220-230V AC (Single-phase), 50/60 Hz, 32 Amps
Power Consumption	0.37 kW
Dimensions (L X W X H in mm)	4000 x 2040 x 845
Weight	480.0 kg approx.
Operating Temperature Range	25°C - 58°C
Noise Level	≤60 Db
Fabric spreading Width	Typically, 1800mm