

WHEN ACCURACY COUNTS...
COUNT ON SPARTANICS

REGISTRATION OF FILM, PCB, AND
OTHER DECORATED MATERIAL



M-83 AUTOMATIC REGISTRATION PUNCH

Precision Tooling Holes Accurate to $\pm.0005"$ ($\pm.0127\text{mm}$)*

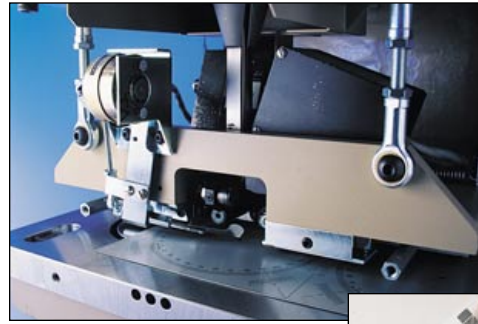
M-83 AUTOMATIC REGISTRATION PUNCH

Applications

The M-83 is designed for accurate hole piercing in:

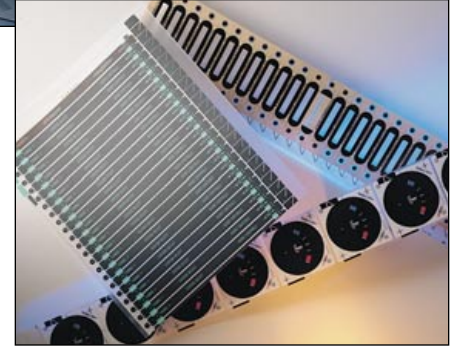
- Solder mask, inner layers, and mass lamination
- Silver and diazo film
- Name plates, dials and decorative appliance trim
- Membrane switches in both graphic and circuit layers

Precision is the focus at Spartanics. We understand the importance of accuracy when it comes to punching holes in film, PCBs, artwork, membrane switches and other precision items. The M-83 Punch automatically registers and punches holes quickly and accurately to $\pm .0005"$ within the target, leaving a clean, quality edge. Printing variations and size distortions are compensated for automatically. It takes only minutes to train operators. The result is increased production with consistent accuracy.



The M-83 punching film (above).

Decorative trim ready for piercing (below).



Cover photo shows the M-83 registering a PCB panel.

Feature	Benefit
• Registers & punches holes to within $\pm .0005"$ relative to the target.	• Consistent accuracy.
• Operates at 10 to 30 strokes per minute.	• Increased profits.
• Variations in printing and distortions are compensated for automatically.	• Eliminates spoilage.
• Quick and simple set-ups.	• Reduced labor costs.
• Simple operation.	• Minimal operator training.
• Noise Level: 76DB	• Quieter operation.

		Metric	Inches
Models	M-83 For printed translucent, transparent or opaque material. M-83DSF for silver and diazo film.		
Size	Throat depth	250 mm	10 in.
*Accuracy	Film (accuracy is determined by quality of target). With etched, drilled, translucent or transparent materials.	$\pm .0127\text{mm}$ $\pm .025\text{mm}$	$\pm .0005"$ $\pm .001"$
Speed	10 to 30 strokes per minute.		
Sheet Size	Wide by any length	500 mm	20 in.
Punch Size	Maximum (slotted or round tooling)	9.5 mm	375 in.
Targets	Printed dot, crossline, etched hole, drilled hole, donut.		
Weight		330 kg.	725 lbs.
Dimensions	Height	1525 mm	60 in.
	Width	635 mm	25 in.
	Depth	815 mm	32 in.
	Table Height	890 mm	35 in.
Shipping Weight		429 kg	925 lbs.
Shipping Dimensions	Height	1702 mm	67 in.
	Width	864 mm	34 in.
	Depth	1218 mm	48 in.
Electrical Power	220 or 440 VAC; 50/60 Hz; 3 phase, 600 VA		
Air Supply	75 psi		

Over 35 years of Proven Experience

Since 1961, Spartanics has specialized in engineering, manufacturing and marketing automated equipment, using sophisticated electro-optical cell technology to increase accuracy, efficiency and security in processing and control of decorated sheet and coil materials.

Spartanics Service covers every aspect of your production process.

- Production rate calculations
- Design assistance
- On-site training
- Field service technicians
- Off-the-shelf loaners
- Standard system components
- One year warranty



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