

**WHEN ACCURACY COUNTS...
COUNT ON SPARTANICS**

**DIE CUTTING OR BLANKING
DECORATED MATERIALS?**

- **INCREASE PRODUCTIVITY**
- **IMPROVE QUALITY**
- **INCREASE PROFITS**



Spartanics[®]

AUTOMATIC REGISTRATION FEEDS

Spartanics' Automatic Registration Feeds have been improving quality, reducing scrap, increasing throughput, and providing solutions for die cutters and their customers for many years.

Spartanics' feeds are at work in a wide range of system applications. Whether hard tooling or steel rule, coil or sheet fed, you get the same consistent accuracy and the same high speed production.

Consistent Accuracy The application will determine your selection of either the 2 axis (X, Y) or 3 axis (X, Y, and Theta) correction system. Both systems feature optical sensing that locates the printed targets quickly, while the sheet is in motion, allowing complete re-register of material for each press hit. Positioning accuracy is better than +/- 0.1 mm (+/- 0.005") in each correction axis.

High Speed Production Drive systems allow for speeds of 300 mm-760 mm/sec (12"-30"/second). These speeds will generate material advance rates of up to 760 mm/sec (30"/sec) allowing for continuous press operation at up to 180 strokes per minute.

Increased Profits Mechanical setup is simplified as optical sensing automatically corrects for material guiding and feed variations without adjustments.

Reduced Labor Costs Can process material as wide as 500 mm (20") with full positioning accuracy.

Reduced Rejects Precise control of accelerations allows material to feed at high speeds with no loss of accuracy and provides an effective "traction-lock" for automatic recovery from slipping and sticking feed errors.

Wide Range of Material Applications The feed can be used with metal, paper, and plastic material with gloss, matte and embossed finishes.

Simple Installation The feed can be mounted and adjusted for a different job in 3 to 15 minutes.

Easy Job Setup The simple setup programs and up-front control guides the operator through this process.

Universal Press Interface For maximum production, the feed provides an efficient press interface on mechanical, air clutch or hydraulic presses.

Maximum Material Use and Waste Reduction Registration accuracy allows minimum bleed, greatly reducing waste and maximizing material use.

224 X, Y REGISTRATION FEED

The 2-axis feed system registers printing both in the x-axis (the material feed direction) and in the y-axis (the axis perpendicular to the material feed direction). A line/angle registration mark is required to make y-axis corrections.

234 X, Y REGISTRATION FEED

All of the features of the standard 224 with the addition of extra high feed rates up to 760 mm / second (30" / second) plus a color touch screen simplifies job setup and provides part-by-part feedback. While a full featured remote box provides the operator easy access to all controls.

TRI-AX 334 REGISTRATION FEED

All of the features of the 234 with the addition of a third correction axis. As the material becomes wider, the need for rotation correction becomes greater. Spartanics offers the TRI-AX 334 which corrects in X,Y, and theta axis. Rotation correction is recommended for material over 9 inches wide.

DECORATED MATERIAL FEED SPECIFICATION

Coil and Sheet Material

General Feed Specifications

		Metric	Inches
Accuracy Reference		+/- 0.1 mm	+/- 0.005"
Material Thickness	Sheet	0.25 mm-1.6mm	0.010"-0.062"
	Coil	0.05 mm-1.6mm	0.002"-0.062"
Material Width	Sheet or Coil	19-500 mm	0.75"-20"
Minimum Material Length	Sheet	300 mm	12"
	Coil	No Maximum	
Material Type	Metal, Plastic or Paper (including embossed)		
Power	200 to 480 VAC, 50/60 Hz, 350 VA		

SPECIFIC MODEL SPECIFICATIONS

224

234

334

		Metric	Inches	Metric	Inches	Metric	Inches
Correction Range	X Axis	+/- 12.0 mm	+/- 0.5"	+/- 12.0 mm	+/- 0.5"	+/- 12.0 mm	+/- 0.5"
	Y Axis	+/- 1.9mm	+/- 0.075"	+/- 1.9mm	+/- 0.075"	+/- 1.9mm	+/- 0.075"
	Theta Axis: 5 milliradians	---	---	---	---	+/-3.5 mm on 700 mm	+/- 0.14" on 28"
Display		Vacuum Fluorescent		Color Touch Screen		Color Touch Screen	
Part Step Up	(minimum)	6.3 mm	0.25"	6.3 mm	0.25"	6.3mm	0.25"
	(maximum)	380 mm	15"	1 meter	40"	1 meter	40"
Feed Rate		Up to 600 mm/sec	Up to 25"/sec	Up to 760 mm/sec	Up to 30"/sec	Up to 760 mm/sec	Up to 30"/sec
Cycle Rate	(based on part step-up)	Up to 160 press strokes per minute.		Up to 180 press strokes per minute.		Up to 180 press strokes per minute.	

