



# CENTRA

DIGITAL FINISHING SYSTEM



The Digital Finishing System from ADSI is the answer to short runs, custom shapes and same day deliveries. These roll-to-roll converting systems allow users to laminate, die cut, strip and slit custom labels in one production pass. The DFS can die cut any custom shape on demand without the inherent costs, delays and limitations of more conventional die cutting processes. Available in 2 sizes, they will convert printed materials from any digital or analog print platform including ink jet and thermal printers or a conventional flexo press.

Utilizing the same vector based file that would typically be "sent out" for tooling, the file is simply opened in Adobe Illustrator and sent to the DFS. Print to cut registration is accomplished via the SMARTMark Optical Registration System where multiple registration marks can be scanned to automatically adjust the cut file compensating for any skew or scale issues that may have been caused by the output device or the material. The computer driven cutting technology is also capable of cutting multiple depths within the same cut file allowing for perforations or multi-layer applications.

Requiring no dies, make-ready, or running waste, the DFS's ease of use, versatility and accuracy provide the professional converter as well as the end user with true "on demand" converting capabilities.

Contour Cutting	Full HPGL Vector cutting compatible with Smartmark opto-electrical line sensor
Drive Technology	Digital Servo
Interface	RS-232 Serial / USB
Resolution, addressable	0.000984 inch (0.25 mm)
Resolution, mechanical	0.000120 inch (0.003 mm)
End Point Accuracy	0.009843 inch (0.25 mm) or 0.1% of total
Acceleration, selectable	Balanced, 0.25 to 4G's
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Force, selectable in 100 steps	10 to 550 grams
Buffer	2 MB, expandable to 8MB
Microprocessor	Intel® RISC 80960i
Command Language	HPGL
Warranty	1 Year
Operating humidity	relative, 5% to 95%
Operating temperature	32 to 117 F (0 to 40o C)
Curve and Arc Smoothing	Yes
Test Plot Function	Yes
Test Cut Function	Yes
Pause/Resume	Yes
Remote Panel	Yes
Knife blades	pivoting carbide tip - 30, 45 & 60 degree
Knife offset, selectable	0 to 0.1 inch (0 to 2.5 mm)
Material Width	DF 1000, 4 - 10 inch (100mm to 254mm) DF 1600, 10 - 16 inch (254mm to 410mm)
Max. Material Thickness	.045 inch
Cutting Technology	Tungsten Carbide Swivel Knife
Registration Resolutions	.004 inch (.01mm)
Material Feed Rate	0 to 2 inch per second (0 to 50.8mm/seconds)
Cut Speed (Maximum Diagonal)	52 Inches per second (1320mm per second)
Dimensions	DF 1000 58" x 24" x 58" (121cmx76cmx61cm) DF 1600 58" x 30" x 58" (121cmx92cmx61cm)
Weight	DF 1000 240lbs. (108.86kg) DF 1600 260lbs. (117.93kg)
Power Requirement	100 - 230 volts AC 43-63 Hz. 6/3Amps

