

# AS-512 Vision Assisted CNC V-Score System

## Product Specifications

The AS-512V will perform to the following specifications as delivered from the factory. Preventative maintenance, operator diligence and PCB material qualities can greatly impact the resultant score line.

Measurement	Specifications (US)	Specifications (Metric)
'Y' Axis Positioning Resolution	± 0.000050 inches	± 0.00127 mm
'Y' Axis Positioning Accuracy	± 0.0004 inches	± 0.01016 mm
'Y' Axis Score to Score Accuracy	± 0.002 inches	± 0.0508 mm
'X' Axis Positioning Resolution	± 0.0002 inches	± 0.00508 mm
'X' Axis Positioning Accuracy	± 0.005 inches	± 0.127 mm
'X' Axis Jump Score Accuracy (start/stop)	± 0.100 inches ± 0.200 inches top to bottom	± 2.54 mm ± 5.08 mm top to bottom
'Z' Axis Positioning Resolution	± 0.000050 inches	± 0.00127 mm
'Z' Axis Positioning Accuracy	± 0.0001 inches	± 0.00254 mm
'Z' Axis Scoring Accuracy	± 0.001 inches ± 0.002 inches on the web	± 0.0254 mm ± 0.0508 mm on the web

Note: The above machine performance specifications are at 0-200 FPM scoring speed, 0-75 FPM positioning speed (subject to score depth and base material).

Feature	Benefit
Tooling Hole Registration	Accurate Alignment
Tooling Pins – 0.125" Diameter Standard	Other sizes available
Up to 200 FT/MIN Cutting 75 FT/MIN Positioning Speeds	Increased productivity and broader processing window
English/Metric and Absolute/Relative Programming	Flexible Programming modes for all users
Virtually unlimited Programs / Lines per Program	Large storage capacity of complex programs
Fully customizable password protection / user rights	Maintain security of system by user administration
Software – Windows Environment / Auto-Score Ver. 3.0X	Easy to learn – familiar, visually oriented and intuitive
Offline Programming option available	Networkable solution for CAM/Engineering departments
Panel size range 11" x 11" up to 24" x 24" (28" Optional)	Handles all common sizes up to and including large panels
Panel Thickness Range 0.020" to 0.125" (most cases)	Wide range of material thicknesses supported
First Score Line – 0.250" from tooling hole (0.187" Optional)	Allows for close scores which increases panel usage
Designed and Manufactured in USA from highest quality components	Customer commitment is built in
Clamping – Automatic, Two (2) Corner	Simple operation, good stability for typical PCB's
Controller – IBM Compatible PC/ 2 @ 6-Axis DSP Controller	Fast, standardized, cost effective off the shelf components
Cutter Drive – Fixed, AC Synchronous Motors	Stable system results in overall accuracy and repeatability
X, Y and Z-axis drives – Closed loop servo motors	Full feedback for highest accuracy
Power – Single Phase 240 VAC, 50/60HZ 10A	Low power consumption

AS-512_ProductDefinition.pdf	Revision A	01/01/01
------------------------------	------------	----------