

**WELLS-  
INDEX®**

# 520CEN VECTOR DRIVE CNC SYSTEM

WITH A CENTROID M-400  
CNC CONTROL

- Programmable spindle speeds
- 5 HP vector drive
- NFPA-79 electrics



A 100% U.S.A. Manufactured Product By:

Shown with optional equipment

**WELLS-INDEX®** Division  
A & D Machinery Company  
701 West Clay Avenue  
Muskegon, Michigan 49440-1064  
Phone: (231) 759-0950 • Fax: (231) 728-7456  
E-mail: wellsindex@aol.com  
Web address: www.wellsindex.com

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## MODEL 520CEN MACHINE FEATURES

### Specifications

- Automatic Lubrication System
- Four Spindle Bearings spaced for maximum accuracy
- Way Covers

	Inch	Metric
Table Size	10" x 48"	254mm x 1219mm
T-slots - 3	.625" W on 2.25" centers	15.88mm W on 57.25mm centers
Coolant Channels	Two	
Controlled Axis	Three	
Table Travel - X	30"	762mm
Saddle Travel - Y	13.75"	350mm
Spindle Travel - Z	5.1"	129mm
Knee Travel	16.5"	419mm
Overarm Travel	24"	609mm
Spindle Motor	5 HP AC (Continuous)	
Spindle Speeds	28-4400 (RPM) Programmable	
Quill Diameter (chrome plated)	3.375"	85.73mm
Spindle Taper	30MMT or 200KS	
Spindle Brakes	Automatic	
Ways	Hand Scraped & hard chrome plated	
Gibs	Adjustable on X, Y and Knee	
Ball Screws - 1 1/4" Dia.	Precision ground on X, Y and Z	
Coolant	Spray mist - automatic and manual	
Shipping Weight	3800	1905 kg.
Machine Height	100"	2540mm
Floor Dimensions	8' W x 7 1/2' D	2438mm x 2286mm
Electrical - Specify*	3/230-60 (Std.)	3/460-60 (OPT)
Positioning Accuracy	±0.0005"	±.013mm
Repeatability	±0.0002"	±.005mm
Control Resolution	.0001"	.001mm
Max. Distance Spindle to Table	15.5"	393.7mm
Axes Servo Drive	Closed-loop DC motors with encoders	
Rapid Traverse Positioning Rate X, Y, and Z	200 IPM	5080mm pm
Programmable Feed Rate X, Y, and Z	.1 to 200 IPM  .1 IPM increments	.1mm to 5080mm pm .1mm pm increments
Air Requirements (Coolant)	60-80 PSI	4.2-5.6 kg/cm <sup>2</sup>

\*Consult factory for other voltages

### Options

- Automatic tool changer (For use with 30MMT Spindle only)
- Knee Power Feed
- Power Drawbar (For use with 30MMT Spindle only)
- Chip Pan/Flood Coolant
- 4" - 6" - 8" Riser Blocks

## CENTROID M-400 CONTROL FEATURES

### Standard Specifications

- 29" lb. Servo Motors
- 15" Color LCD
- Conversational Programming
- Accuracy to .0001"
- Work Coordinate Systems
- 600 Blocks/Second Access Speed
- PC Based CPU w/3.5" Floppy Disc Drive
- Full 3D Contouring
- Standard G & M Codes
- Cutter Radius Compensation
- Linear, Circular & Helical Interpolation
- Drilling Cycles
- Digital 3-Axis Servo Drive
- 32 Bit DSP Technology
- Automatic Spindle Control
- Automatic Coolant Control
- Automatic Spindle Brake
- Automatic Interlocked Lube Pump
- Thread Milling
- Auxiliary M-Functions
- Manual Flood/Mist Select
- Power Drawbar Interlock
- Trico Micro Drop Coolant System

### Options

- Digitizing
- Probing
- 4th Axis
- Unlimited File Size
- Tapping Cycles
- Offline Programming

Specifications subject to change without notice.

Console style varies.

Machine shown with extra cost options.

Wells-Index assumes single source warranty for a period of one year from date of installation.