

Paragon 2001 Model J436 Specifications

STATION SIZE AND TRAVEL:

Active Spindles	4	24" x 32"
	2	28" x 32"
Expanded, Option 1	4	24" x 36"
	2	28" x 36"
Expanded, Option 2	4	24" x 36"
	2	36" x 36"
X, Y, & Z Travel, standard	28" x 32" x 5"	

X & Y AXES ACCURACY:

Absolute Positioning; Standard	+/- .0005"
Absolute Positioning; Precision	+/- .0002"
Repeatability	.0002"
Square and Linear	.0003"/ft.

Z AXIS ACCURACY:

Absolute Positioning	+/- .0007"
Repeatability	.0004"

SPEED/RESOLUTION:

X & Y Axes; Positioning	600 IPM
Contouring	400 IPM
Z Axis	400 IPM
System resolution, X, Y, & Z	.0001"

SERVO SYSTEM:

Servomotors (3)	Low inertia, brushless DC
Amplifiers (3)	Brushless DC
Position Feedback	Resolver

CONTROL SYSTEM:

PDA TurboCam CNC with;	486 CPU w/ EPROM software
	14" VGA Monitor
	256 kb program storage
	3.5" floppy disk drive

UTILITY REQUIREMENTS:

Power	230/460 VAC, 3 ph, 50/60 Hz
Current	30/15 amps
Air	90 psi shop air
Vacuum	4.5" Hg at 350 cfm

DIMENSIONS & WEIGHT:

Size	11' wide x 6.5' deep x 6.5' high
Weight	17,800 lbs.

MACHINE CONSTRUCTION:

Split axis design, granite and steel construction

Granite Base; 6' deep x 10' wide x 14" thick
three point support

Granite Beam; 12" deep x 18" thick x 10 wide'
supported on granite risers

Y-Table; 96.5" wide x 32" deep
Webbed, ductile iron casting
60" wide x 32" deep x 3" thick
two each, 18" extensions

X-Carriage; Precision ground steel plate
53" x 23" x 1.375" thick

X & Y Axes Ways & Bearings;
35mm high load, linear guide system

X & Y Axes Leadscrew Assemblies;
20 mm precision ground,
zero backlash ballnut
monocarrier leadscrew incorporates
ballnut within linear guide system

Z Axis Ways & Bearings;
Hardened and ground steel,
3" diameter with bronze bushings

Z-Axis Leadscrews, two each;
20 mm precision ground,
zero backlash ballnut

Spindle Mount;
Precision ground and bored steel tube

SPINDLES & DRIVE:

Number / Spacing	4 on 24.25" centers
Type	Heavy duty, belt-driven
Speed Range	12,000 - 36,000 rpm
Run-out	.0007" T.I.R.
Tool change	Pneumatic, push-button
Tool holder	1/2" collet, 1/8" I.D. holder
Drive motor	5 H.P.; AC induction
Speed control	AC frequency converter

OPTIONS:

Automatic toolchange, five tools per spindle
Precision, 12,000 - 36,000 rpm spindle, .0004" T.I.R.
Skorsaw attachment
Linear Scales
Environmental Enclosure