

Cobra

Applications include: Solid Wood Furniture Manufacturing, High Speed Mold Making, High Production Panel Processing, Plastic Parts Fabrication

The Cobra is the big brother to the Viper Series, both series being designed with moving beds and stationary gantries. With this style of system, the bed that the material is mounted onto is driven forwards and backwards to create travel on the X-Axis. The Y-Axis is built with an extra wide carriage to ensure a very stiff mounting position for the spindle to be attached to. The carriage is driven in the X/Y-Axis at very high rates of speed, along the 35mm linear rails. Each axis is driven by high precision ground ballscrews enabling smooth motion, and great precision.

The Cobra is available with either the Standard Servo System or the ACS, both true closed loop servo controllers. These drive systems coupled with the very stiff mechanical design, create a unit that is not only extremely rigid, but also highly accurate, perfect for applications requiring the best edge quality available at incredibly fast cutting speeds of up to 3100ipm. Typical applications for this series of machine are those requiring short cycle times such as customers cutting parts from sheets, be it cabinet door manufacturers, nested cutting applications, plastic fabricators, or machine shop part manufacturing.

The Cobra is offered in 11 models and sizes:

Model:

1515
2015
2515
3015
1525

Size:

60" x 60" ”
1540 x 1540mm
60" x 81" ”
1540 x 2060mm
60" x 96" ”
1540 x 2440mm
60" x 120" ”
1540 x 3080mm
96" x 60" ”
2440 x 1540mm

Model:

1530
1537
3015 TT
3025 TT
3030 TT

Size:

120" x 60" ”
3050 x 1540mm
144" x 125" ”
3660 x 3090mm
60" x 60" ”
1540 x 1540mm
60" x 96" ”
1540 x 2440mm
60" x 120" ”
1540 x 3050mm

Model:

3037 TT

Size:

1540 x 3660mm

Dimensions for the Cobra

Model Number15152015

2515

3015

Y Process Area Width

60&rdquo;

81&rdquo;

96&rdquo;

120&rdquo;

X Process Area Length

60&rdquo;

60&rdquo;

60&rdquo;

60&rdquo;

W Overall Width

108&rdquo;

129&rdquo;

144&rdquo;

168&rdquo;

L Overall Length

130&rdquo;

130&rdquo;

130&rdquo;

130&rdquo;

Height

72&rdquo;

72&rdquo;

72&rdquo;

72&rdquo;

Weight

5400lbs

6800lbs

7200lbs

8800lbs

Model Number1525

1530

1537

3015TT

Y Process Area Width

60&rdquo;

60&rdquo;

60&rdquo;

60&rdquo;

X Process Area Length

96&rdquo;120&rdquo;144&rdquo;60&rdquo;

W Overall Width

108&rdquo;

108&rdquo;

108&rdquo;

216&rdquo;

L Overall Length

204&rdquo;

256&rdquo;

300&rdquo;

130&rdquo;

Height

72&rdquo;

72&rdquo;

72&rdquo;

72&rdquo;

Weight

7200lbs

8800lbs
9900lbs
11000lbs

Model Number3025TT
3030TT
3037TT
Y Process Area Width
60”
60”
60”
X Process Area Length
96”
120”
144”
W Overall Width
216”
216”
216”
L Overall Length
204”
256”
300”
Height
72”
72”
72”
Weight
16000lbs18200lbs
19800lbs

Model Number1515
2015
2515
3015
Y Process Area Width
1540mm
2060mm
2440mm
3050mm
X Process Area Length
1540mm
1540mm
1540mm
1540mm
W Overall Width
2743mm
3277mm
3658mm
4267mm
L Overall Length
3302mm
3302mm
3302mm
3302mm
Height
1829mm
1829mm
1829mm
1829mm
Weight
2455kg

3091kg
3273kg
4000kg

Model Number1525
1530
1537
3015TT
Y Process Area Width
1540mm
1540mm
1540mm1540mm
X Process Area Length
2440mm
2440mm
3660mm
1540mm
W Overall Width
2743mm
2743mm
2733mm
4386mm
L Overall Length
5182mm
5182mm
7620mm
3302mm
Height
1829mm
1829mm
1829mm
1829mm
Weight
3273kg
4000kg
4500kg
5000kg

Model Number3025TT3030TT3037TT
Y Process Area Width
1540mm
1540mm
1540mm
X Process Area Length
2440mm
3050mm
3660mm
W Overall Width
3748mm
4276mm
3748mm
L Overall Length
5182mm
5182mm
7620mm
Height
1829mm
1829mm
1829mm
Weight
7272kg
8272kg
9000kg

Please Note: All sizes and weights are the approximate standard and are subject to change depending on which options are added.

Specifications

Z-Axis Travel: 11" , 280mm

Z-Axis Clearance: 11" , 280mm

Max Cutting Speed: XY 1650 ipm, 700 mm/s

Max Rapid Traverse*: XY 3190 ipm, 1350 mm/s

Resolution X/Y: 0.00004" , 0.001mm

Resolution Z: 0.000016" , 0.0004mm

Repeatability: +/- 0.002" , +/- 0.05mm

- Standard Features
- 3D computerized routing system
 - AC Servo motors
 - Preloaded backlash-free ballscrew on all axis
 - 35 mm linear bearings on X and Y axis
 - 40 mm fixed high pitch ballscrew*
 - Solid, stress relieved and machined aluminum work surface (40 mm thickness)
 - GCode compatible
 - Network connection via TCP/IP, 10Base2 or 10BaseT
 - Remote Administration via Internet (TCP/IP)
 - 12 month warranty