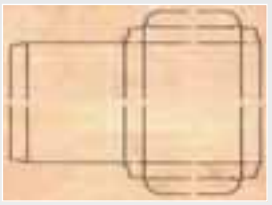
Alpha systems

LASER CUTTERS AND ENGRAVERS



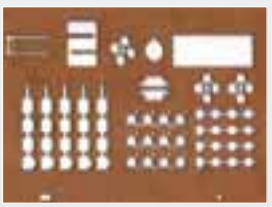
Die-board cutting

Leather/fabric cutting

Granite/Glass engraving

Sign making

Gasket cutting



Electronic application

CO2 LASER CUTTER 'MC SERIES'

Features:

- Pass through design to stretch long workpieces in Y axis direction
- tilt hopper & part catch drawer design to collect cut pieces conveniently
- optional honey comb table which can be smoothly slided in at an instant
- adjustable focusing system with air-assistance to prevent burning of cutting edge and to keep lens clean
- optional colour CCD capture to adjust cutting position automatically and monitor cutting status
- touch panel input unit to allow input of laser parameters, diagnosis of laser device and convenient operation of machine
- AC servo motor for high speed motion control
- path order can be assigned manually & automatically

Applications:

- Die board
- sign/displays
- decoration
- applique cutting
- leather cutting
- embroidery & textiles
- architectural models
- acrylic display
- gaskets
- router template stencils
- plastic fabrication
- photo frames
- 2D prototypes
- gift articles
- puzzles

Materials:

- Acrylic
- Veneer
- Marble, Granite
- MDF board
- Wood, Plywood
- Masonite
- Rubber, Vinyl
- Foam, Nylon
- Cloth, Textile
- Polycarbonate
- Chipboard
- Cardboard
- Paper
- ABS, Polyester, PP
- Leather

CO2 LASER CUTTER 'DM SERIES'

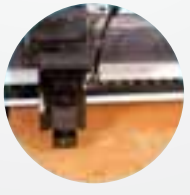
Features:

- Optic path compensation designed to cut work piece with same kerfs width
- z axis tracer to follow the height of work piece and adjust focusing accordingly
- magnetic linear scale to help calibration of motion and get position accuracy at +or- 0.05mm
- adjustable focusing system with air-assistance to prevent burning of cutting edge and to keep lens clean
- good control over corner cuts to have a 90degree corner
- touch panel input unit to allow input of laser parameters, diagnosis of laser device and convenient operation of machine
- AC servo motor for high speed motion control
- beam expander and adjustable focusing to get sharp cutting edge
- well sealed focusing unit to allow fine tuning over air assist
- path order can be assigned manually & automatically

Air assist laser head

Touch panel

Camera for contour cutting



Z-Axis tracer

Options:

Beam Expander
Focus Lens(1.5" , 2" & 3")
Honey comb table
Red pointer
CCD Capture
Exhaust System
Compressor
Dual head

Specification:

Machine model	MC600		MC1310		DM1250
Net Weight	150kg	160kg	340kg	360kg	1,100kg
Laser Source	RF25W, RF60W CO2 (air cooled)	RF100W CO2 (water cooled)	RF60W CO2 (air cooled)	DC100W, 200W CO2 (water cooled)	DC100W, 200W CO2 (water cooled)
Working area	600 mm x 600 mm (23.6" x 23.6")		1300 mm x 900 mm (51.1" x 35.4")		1250 mm x 1250 mm (49.2" x 49.2")
Overall Dimension	1100 x 1080 x 1070 mm (43" x 42" x 42")		1800 x 1360 x 1070 mm (70.8" x 53.5" x 42")		2100 x 2150 x 1225 mm (82.7" x 84.6" x 48.2")
Material clearance	660 mm x 660 mm (26" x 26") -in Yaxis long pieces can pass thro'		1360 x 960 mm (53.5" x 37.8") -in Y-axis long pieces can pass thro		1460 x 1460 x 50 mm (57.5" x 57.5" x 2")
PC communication	RS232 serial port with supplied cable				
Focus Lens	2" (options of other lenses 1.5" & 3" available)				5" (options of other lenses 1.5" & 3" available)
Speed (max)	45m/min-traversing, 30m/min-cutting				16m/min-traversing, 5m/min-cutting
Laser Power control	10~100% power control with automatic proportional pulsing and color linked power setting through PC				
Position accuracy	+ or - 0.1mm				+ or - 0.05mm
Cutting pallet	support structure made of aluminium				support structure removable copper needle
Power supply	single phase, 220v or 110v AC, 50/60Hz				
Display	Touch panel				