

# AOLCNC KNIFE CUTTING MACHINE

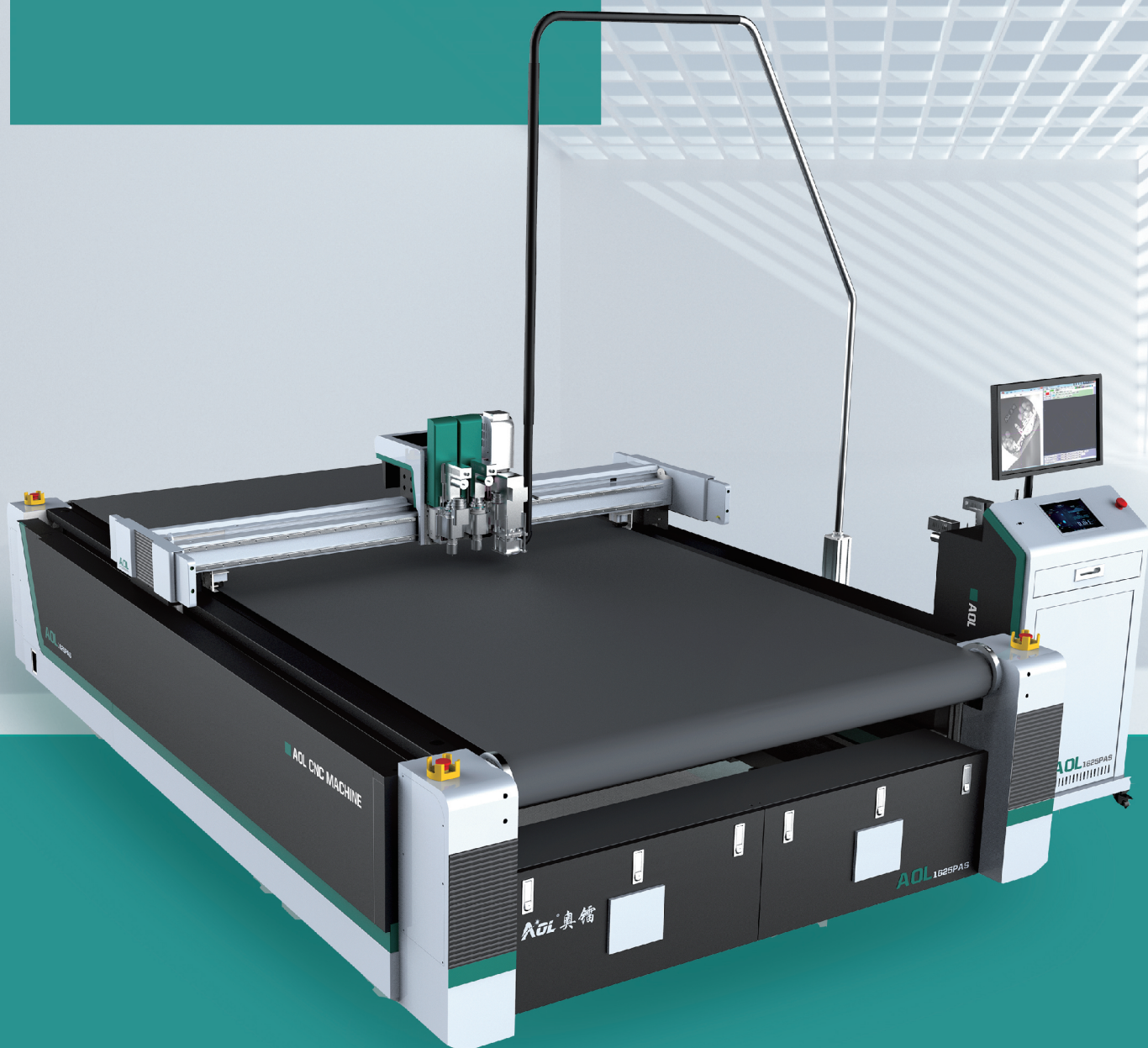
Advertising & Packaging Industry

2023 New  
Experience

AOL-1625PAS

# Advertising Packaging Industry Cutting Machine

PA SERIES





## PRODUCT ADVANTAGES:

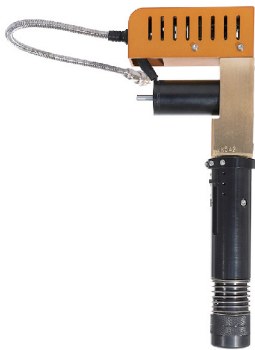
- ▶ 1, AOLCUT self-developed software one-click import, general worker takes 2 hours to be skilled.
- ▶ 2, Independently R&D industrial vision system to realize cutting of irregular printing patterns.
- ▶ 3, Taiwan linear guide rail transmission system, precision  $\pm 0.1$  mm.
- ▶ 4, Japanese Panasonic servo system, production efficiency increases more than 4 times.
- ▶ 5, Automatic pulling and receiving, save time and energy.
- ▶ 6, AOL's unique tools exchange system, one machine solves a variety of processes.
- ▶ 7, This model has won 7 patents technology certifications at home and abroad.

## TECHNICAL PARAMETERS

Model	AOL-1625PAS / AOL-1825PAS (Accept customization)		
Working Range	1600*2500MM / 1800*2500MM	Rated Power	11KW
Product Size	3560*2350*1221MM / 3560*2550*1221MM	Rated Voltage	220/380V $\pm 10\%$
Cutting Thickness	$\leq 28$ MM	Interface	Ethernet port
Cutting Speed	0-1800MM/S	Control Panel	LCD touch screen
Cutting Tools	Tools can be easily changed, with oscillating, circular knife, kiss-cut tool, v-cut Tool, CCD Camera, and so on.		
Cutting Material	Paperboard, grey board, corrugated board, honeycomb board, KT board, foam board, car sticker, PP Adhesive material, EPE, EVA, PVC board, acrylic board, and so on.		



Our large format AOL digital cutters can cut and rout virtually any advertising material, it has a high-precision CCD positioning function, which makes material cutting faster



## Oscillating Knife Tool

The electrical oscillating tool is super suitable for cutting the material of medium density. Coordinated with various kinds of blades, applied for cutting different materials

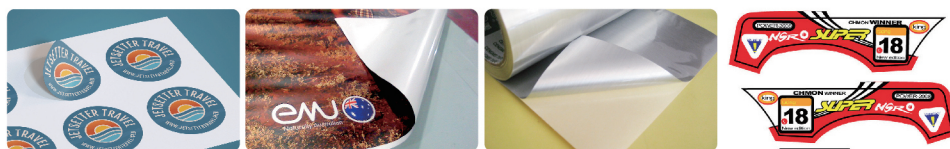
**Application** Foam board, Honeycomb board, Carpet, Corrugated, Cardboard, KT board, Gray board, Composite materials, Leather



## Kiss-Cut Knife Tool

The kiss cut tool is mainly used for cutting vinyl materials (labels). Aol cut makes it possible that the tool cuts through the top part of the material without any damage to the bottom part. It allows high cutting speed for material processing

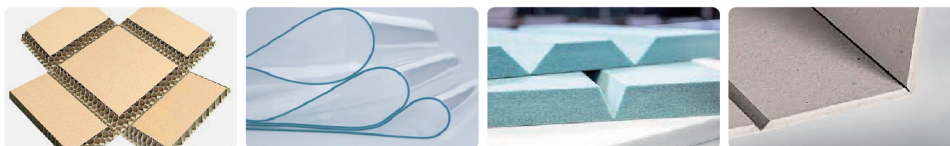
**Application** Sticker, Reflective Materials, Self-adhesive Vinyl, Label, Vinyl, Engineering Reflective Film, Double-layer Adhesives



## V-Cut Knife Tool

Specialized for V-cut processing on corrugated materials, AOL V-Cut Tool can cut 0°, 15°, 22.5°, 30° and 45°

**Application** Soft Board, KT Board, Corrugated Board, Packing Box, Medium-density Material V-cuts, Carton Packaging, Hard Cardboard



## Creasing Wheel Tool

A selection of creasing tools allows for perfect creasing. Coordinated with the cutting software, the tool can cut the corrugated material along its structure or the reverse direction to have a finest creasing result, without any damage to the corrugated material's surface

**Application** Packing Box, Folding Card, Corrugated Board, Carton



## Marking Pen

The cylinder is controlled by the solenoid valve to realize the function of marking. Suitable for leather, fabric and other materials to record, order, count, proofing

**Application** Leather, Fabric, Cardboard and other materials







## Circular Knife Tool

Circular knife puts the materials by the high-speed rotating blades driven by the servo motor. The tool can be installed with circular blades and decagonal blades, etc. Which are especially suitable for cutting woven materials

**Application** Textiles, Canvas, Leather, Fabric, UV fabric, Carbon Fabric, Glass Fabric, Carpet, Blanket, Fur, Woven Fabric, Composite Double, Multi-layer Material, Flexible Plastic



## Drag Knife Tool

AOL drag knife tool can perfectly cut materials with the thickness up to 5mm. Compared to other cutting tools, it is the most cost-effective one that allows for the fastest cutting speed and lowest maintenance cost

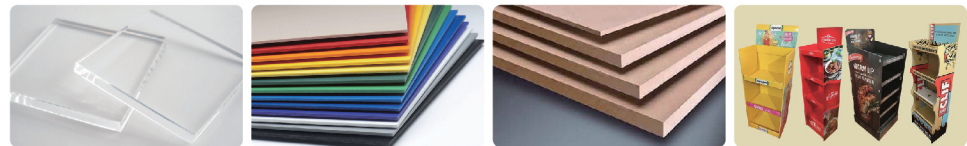
**Application** Backlit Film, Sticker, PP Paper, Folding Card, Flexible Material less than 3mm thickness, Advertising Materials KT Board, Flexible Plastics, Mobile Phone Film



## Milling Knife Tool

With imported spindle, it has a rotating speed of 24000 rpm. Applied for cutting hard materials with the maximum thickness of 20 mm. The customized cleaning device cleans up the production dust and debris. The air cooling system extends blade life

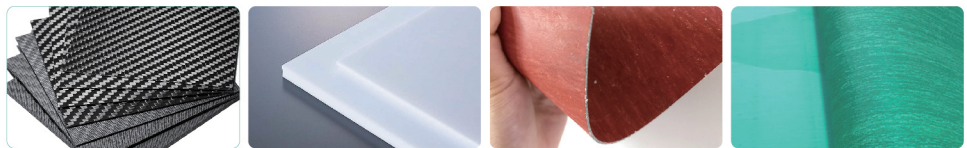
**Application** Acrylic, MDF Board, PVC Board, Display Stand



## Pneumatic Knife Tool

Driven by compressed air, is especially for cutting hard and compact materials. Equipped with different kinds of blades, it can make different process effect. The tool can cut the material up to 100mm by using specialized blades

**Application** Asbestos Board, Asbestos Free Board, PTFE, Rubber Board, Fluorine Rubber Board, Silica Gel Board, Graphite Board, Graphite Composite Board

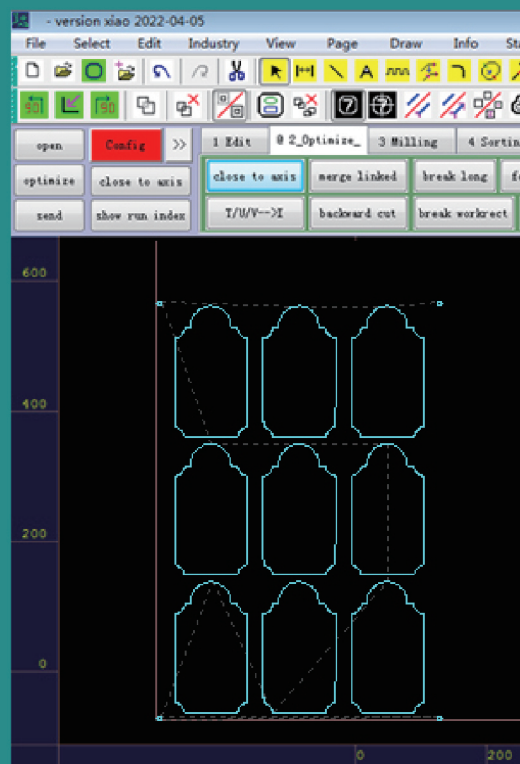


## CCD Positioning Cutting

Identify the pattern contour through identifying the mark points or QR code, finally realize the position cutting along edge

**Application** Printing Clothing, PVC Elevator Mat, KT Board, Foam Board, Poster Board





# Why Choose AOL Software System

Save labor cost, solve the error of manual cutting increase yield. Solve the difficult of shape cutting, improve efficiency and solve the problem of difficult recruitment

## 1. Easy editing function:

The AOL software system integrates the layer functions of commonly used in the advertising industry, the original graphic file can be modified and edited easily

## 2. Convenient operation:

The AOL software system is powerful and easy to operate, which is one of the important features of aol, Just have a video tutorial or manual you can quickly master the operation of AOL

## 3. Automatic extraction of cutting paths:

No need complicated cutting path design, the cutting path can be automatically generated directly

## 4. Graphic design software integration:

It can be docked with ArtiosCAD, AutoCAD, Coreldraw and other software to simplify the work flow of structure and graphic designer



# CCD Software Introduction

## 1. Software Function

(1) Mark point identification, positioning and cutting

Working principle: The one-to-one vector graphics of the printed graphics on the material is sent to the machine, and the camera performs positioning and cutting by identifying the mark points printed on the material.

(2) Identify the QR code

Print the QR code on the material, move the camera to the position of the QR code, the camera will first recognize the QR code and read the vector diagram corresponding to the current material, and then identify the mark point for positioning and cutting, this function will omit sending Graphics to machine steps to improve work efficiency.

## 2. Applicable Industries

Advertising, packaging, cartons, etc.

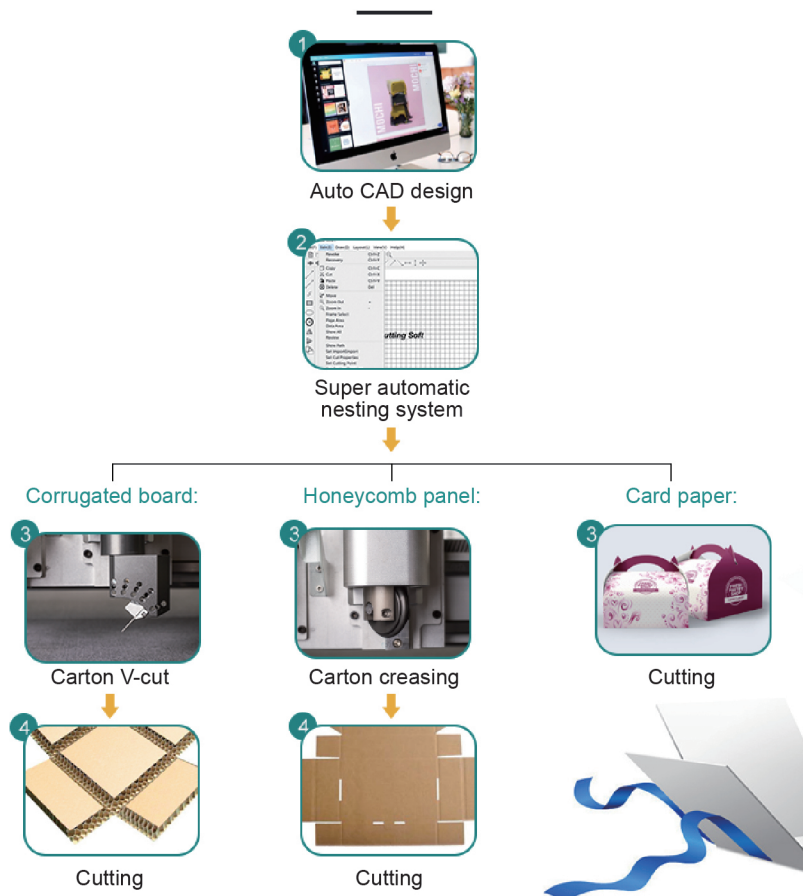
## 3. Software Advantages

Recognition speed: The new software takes 7 seconds to recognize the QR code plus four mark points.

Simple operation: It is easier to calibrate the camera. There is no need to make a template for the mark points of the solid circle. Just enter the actual size of the printed mark points and the software will automatically match. You can directly control the machine to move, start cutting and stop from the software.

There are many types of identifiable mark points: the types of identifiable mark points include solid circle, cross line, right-angled line, and broken right-angled line. mark point to create an add template.

## INTELLIGENT CUTTING PROCESS





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