

# mivaMAC

AUTOMATIC CUTTING MACHINES





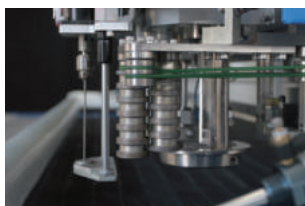
## MULTI-LAYER AUTOMATIC CUTTING MACHINE

### TECHNICAL DATA

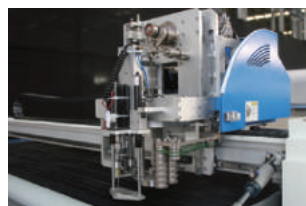
|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Max. cutting height            | 3cm/5cm/7cm/9cm<br>3cm/5cm/7cm/9cm(after vac-sorb) |
| Cutting Window                 | Length(no limitation)                              |
| Cutting Window                 | Width<br>(no wider than the fabric width)          |
| Working width(Y)               | 1700mm/2000mm/2200mm                               |
| Normal working length(X)       | 2500mm                                             |
| Electricity                    | Three phase 380V, 50~60 Hz                         |
| Power consumption              | 18 KW max.                                         |
| CAD&CAM Connect Way            | Ethernet communication/<br>USB Flash memory        |
| Maximum speed of working blade | 5000 rpm                                           |
| Compressed air                 | 0,55Mpa 160L/min                                   |
| Cutting speed                  | max. 60000 mm/min                                  |
| Acceleration                   | 0,6~ 0,8 (N/Kg)                                    |
| Noise level                    | <75 dbA                                            |



Y Axis Gantry



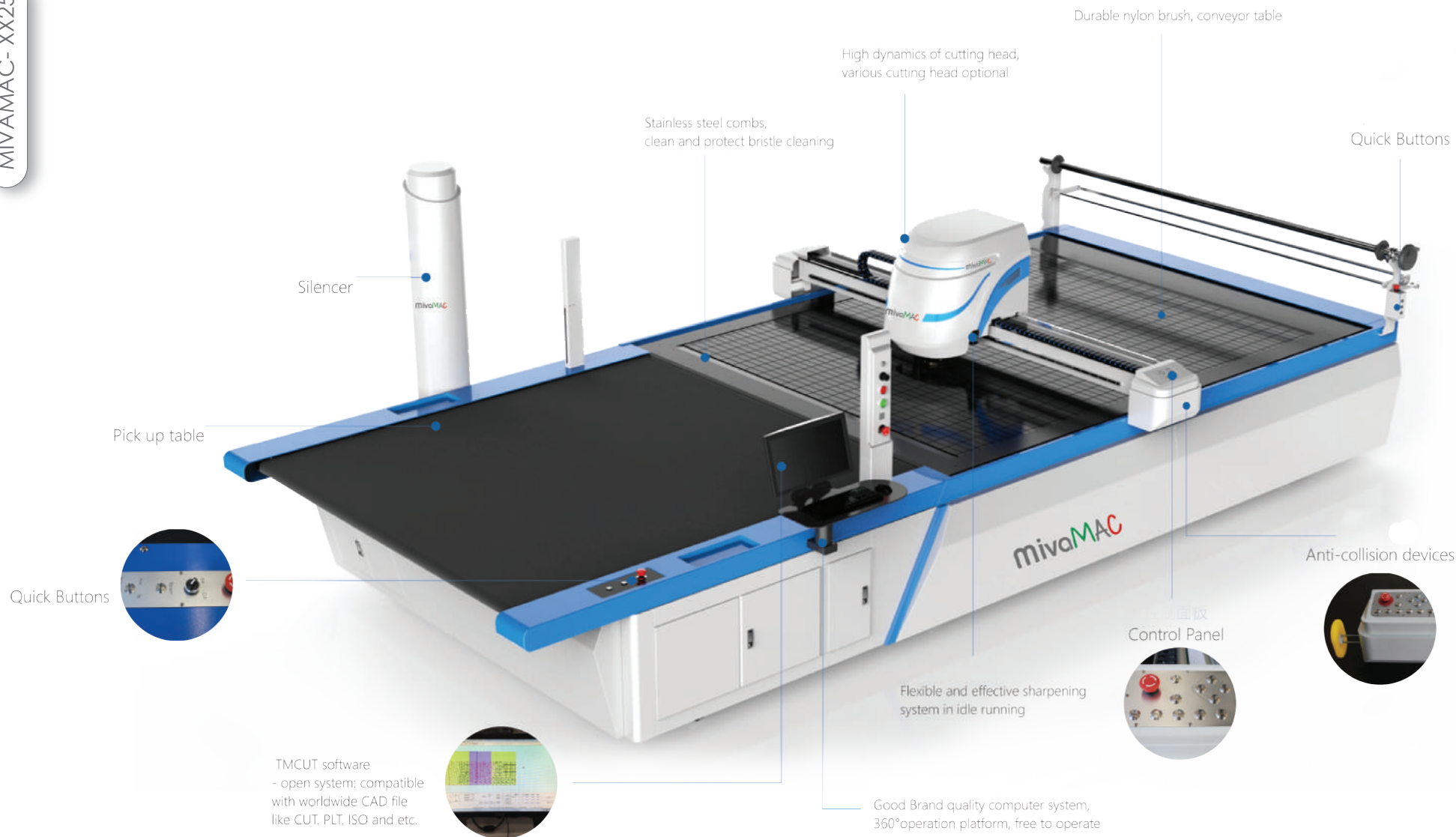
Cutter plate



Cutter head



Main structure



## MULTI-LAYER AUTOMATIC CUTTING MACHINE

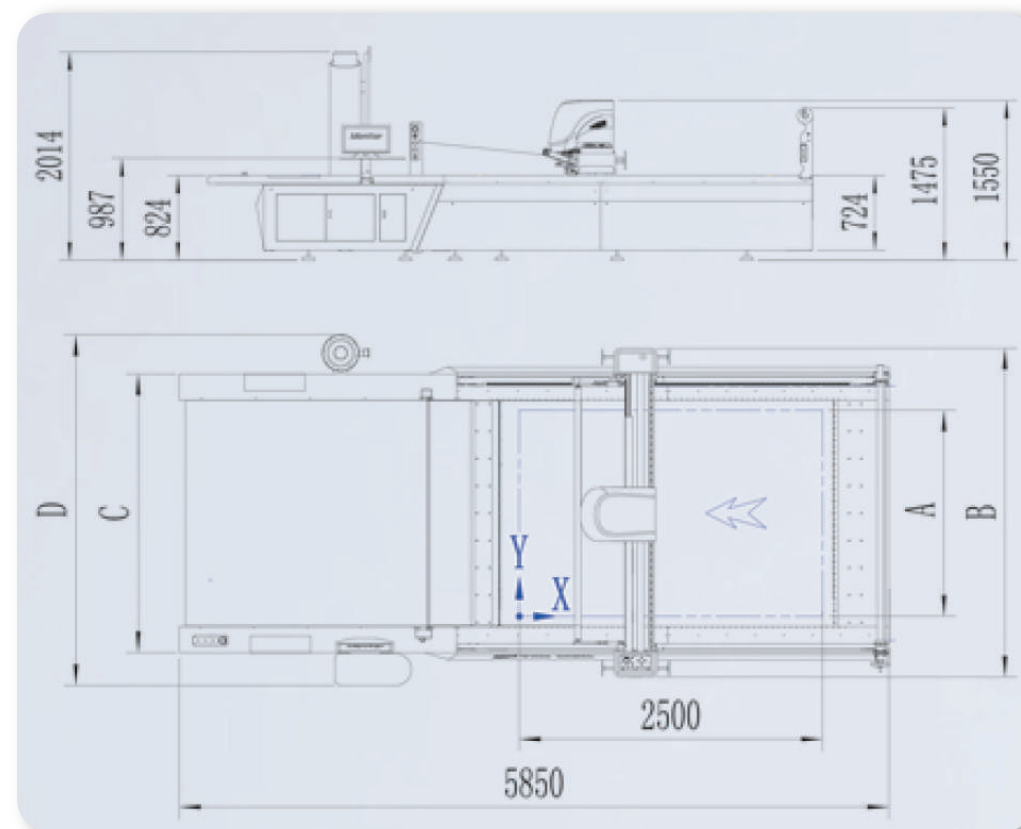
## FEATURES:

- Own pattern cutting software
- High efficiency, high accuracy
- Easy operation and better safety
- User friendly
- Intelligent cutting design, ensures the precision.

## OPTIONAL DEVICES:

- Air cooling device
- Double Drill device( single or linkage optional)
- Moving function, that combines the cutter with spreading machines and different table lines
- Feeding structure of wadding materials.

| mm \ dm | 17   | 20   | 22   |
|---------|------|------|------|
| A       | 1700 | 2000 | 2200 |
| B       | 2710 | 3010 | 3210 |
| C       | 2296 | 2596 | 2796 |
| D       | 2890 | 3190 | 3390 |





MIVAMAC-2633

The main application is large pattern cutting of wider materials.

|                           |                          |
|---------------------------|--------------------------|
| Max Cutting Height        | 5cm/7cm (after vac-sorb) |
| Working Width (Y)         | 2600mm                   |
| Normal Working Length (X) | 3300mm                   |
| Normal Working Length (X) | 2850mm                   |

MIVAMAC-1640

The main application is small batches of customized production  
Typical industries are automation, furniture and etc.

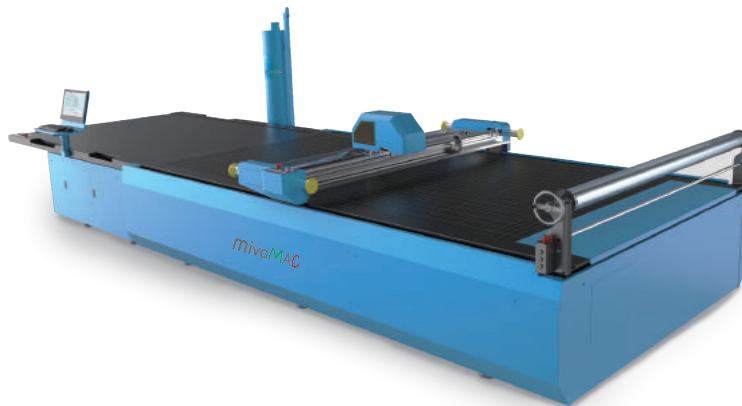
|                           |                          |
|---------------------------|--------------------------|
| Max Cutting Height        | 5cm/7cm (after vac-sorb) |
| Working Width (Y)         | 1600mm                   |
| Normal Working Length (X) | 4000mm                   |
| Normal Working Length (X) | 3550mm                   |



MIVAMAC 1733

The main application is small batches of customized production  
Typical industries are furniture, garment and etc

|                           |                      |
|---------------------------|----------------------|
| Max Cutting Height        | 3cm (after vac-sorb) |
| Working Width (Y)         | 1700mm               |
| Normal Working Length (X) | 3300mm               |
| Normal Working Length (X) | 2850mm               |



## Spreader

- Machine returns back to original position once fabric runs empty.
- The machine power will automatically shut off upon 5 minutes idle.
- The spread laid fabric is not pulled when the emergency stop triggers.
- The streamline shape can reduce the wind disturbance, noise and vibration.
- Automatic fabric expanding system.
- PLC touch panel, user friendly operation system.
- Non-tension spreading.
- Simple operation increases production efficiently and also ensures the best

|                            |                                  |                          |                                |
|----------------------------|----------------------------------|--------------------------|--------------------------------|
| Items                      | Specification                    | Models                   | 160~280                        |
| Voltage                    | 1P/220V                          | Power                    | 1.5kW                          |
| Cloth Width Maximum(mm)    | 1600~2800                        | Table Width(mm)          | 1830~3030                      |
| Machine Weight(kg)         | 320~400                          | Weight of Cloth Roll(kg) | 50 max<br>Customized available |
| Diameter of Cloth Roll(mm) | 450 max<br>Customized available  | Travel Speed(m/min)      | 86 max                         |
| Lay Height(mm)             | One-Way:220;<br>Face to Face:150 | LxWxH Dimensions(mm)     | 2300x1800x950~3500x1800x950    |

### STANDARD CONFIGURATIONS

- Spreading length set memory device
- Spreader acceleration computer control
- Groove type automatic tracking loose cloth device
- Mop rod
- Emergency stop device
- Automatic lifting device
- According to a wide set of cutter walking distance
- The number of counter
- On the edge device
- Cutting device
- Roll back device ( roll back cloth )

### OPTIONAL DEVICES

- Manned platform
- Blowing device can realize the automatic laying curling fabric( edge control device)
- Unilateral fixed moving cloth pressing device
- Fixed cloth pressing device



Knitting fabric & Woven fabric



Woven Fabric



Home textile



The heavy woven cloth spreading machine

## MIVAMAC Single Layer Cutter

### Main Features

- Continuous rolling platform ensures the fabric cutting without length limitation
- Flexible solution for prototype cloth cutting and customized production
- Meet sample making and cutting in luggage production
- High efficiency for furniture like sofa with many designs
- Save labor, save material, high efficiency and precision

### Application:

- Main designed for furniture, suit and etc.



MIVAMAC-1625S



MIVAMAC-1633S

## Specification

| Model                                  | TMSC-1625S              | TMSC-1633S    |
|----------------------------------------|-------------------------|---------------|
| Cutting Size (W*L)                     | 1600mm* 2500mm          | 1600mm*3300mm |
| Machine Dimension (W*L)                | 2400mm*4350mm           | 2400mm*6988mm |
| Cutting Speed                          | 0mm/s ~ 1200mm/s        |               |
| Material Fixed Method                  | Vacuum Absorb           |               |
| Data Format                            | DXF,PLT,HPGL            |               |
| Air Pressure, Flow                     | 0,55MPa 100L/min        |               |
| Vacuum Pump Power                      | 9KW/12.5KW Optional     |               |
| Working Voltage/ Frequency             | AC220V ± 22V,50Hz ± 1Hz |               |
| Vacuum Pump Working Voltage/ Frequency | AC380V ± 38V,50Hz ± 1Hz |               |

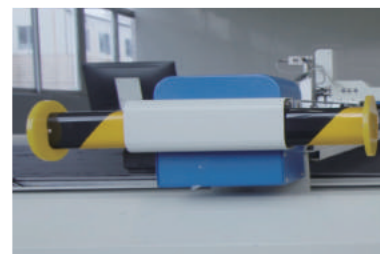
### Fabric Press Device



### Round Knife Cutter



### Anti-collision Device



### OPTIONAL TOOLS



Round blade 32mm



Round blade 25mm



Oscillating blade



V notch



I notch



Pen

## Table

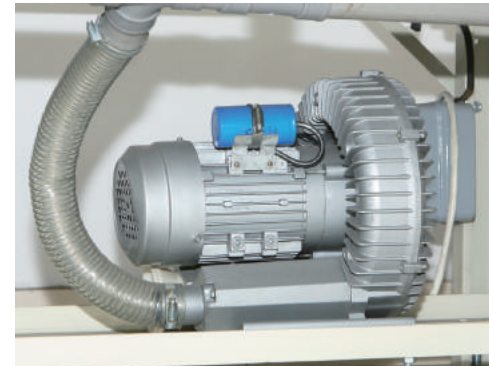
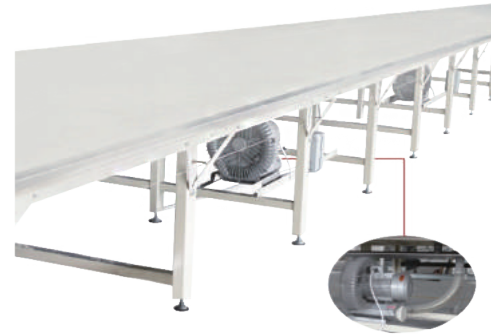
### Main features

Extra reinforcements in each leg available.

Very fast and easy to mount as table legs it comes already assembled.

### Specification

| Type            | Width (mm)          | Length (mm) | Height (mm) | Thickness (mm) | Others     |
|-----------------|---------------------|-------------|-------------|----------------|------------|
| Normal          | 1830/2130/2330/2530 | 1200        | 800 - 900   | 27 - 30        | Customized |
| Flotation table | 1830/2130/2330/2530 | 1200        | 800 - 900   | 800 - 900      | Customized |



### Blower recommendation

- For light weight material 1 blower per 3.6 meters
- For heavy weight material: 1 blower per 2.4 meters

### Movable table optional:

Moving function, it helps to combine the spreading machine for different table lines.