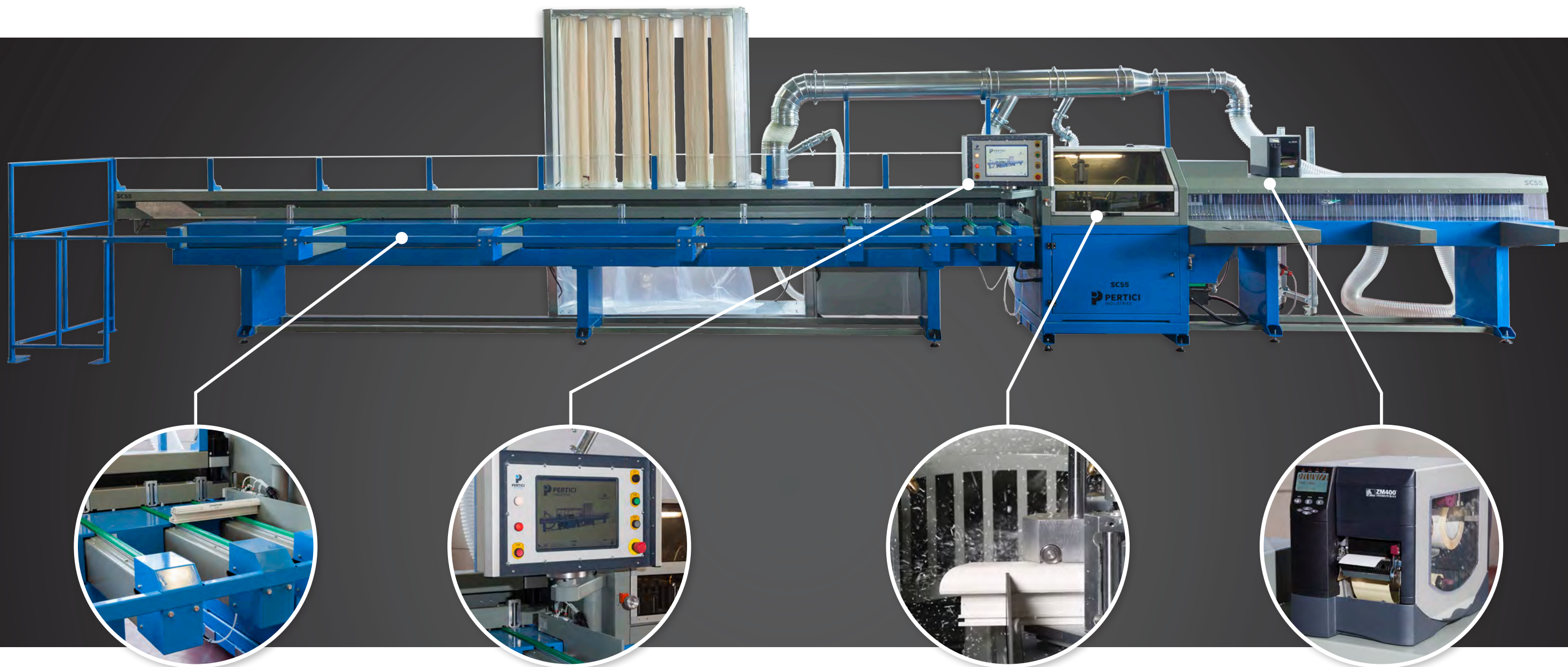


# CUTTING

## CENTRE SC 55





## SC 55 Cutting centre

CNC cutting centre with 2 controlled axis, designed for the cutting of PVC profiles. The machine performs the following operations: it loads the profile from the bar unit (storage), it cuts and unloads the finished piece. All these operations are carried out automatically, without the operator's intervention.

The software, developed entirely by Pertici Industries, ensures the better management of the working cycle and the cutting lists and automatically interfaces with the main cutting list processing programs available on the market. The machine is made of 3 units.

### LOADING UNIT

Loading unit with a max capacity of 10-12 bars.

Max sizes of the profile that can be loaded in automatic mode:

Length = 6600 mm  
Width = 138 mm  
Height = 149mm

Min sizes of the profile that can be loaded in automatic mode:

Length = 400mm  
Width = 38mm  
Height = 49mm

Bar loading system with belts controlled by motor.  
Profile pusher driven by brushless motor.

### CUTTING UNIT

The cutting unit is made of a pneumatically-actuated upward blade equipped with a 500 mm blade with wide cutting range: from 45°, 90°, 135°.

Blade unit rotation controlled by pneumatic or motorized (opt.) actuator.

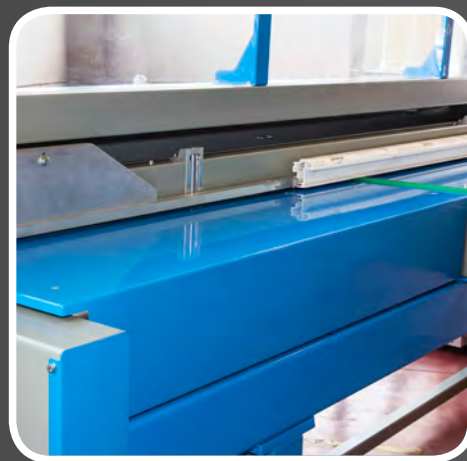
Cutting angles -45°, 90°, +45°  
Pair of horizontal and vertical clamps with clamping capacity (min 40mm – max 230mm) for large section cuts.

### UNLOADING UNIT

Automatic ejector of cut profiles.  
Unloading magazine with safety sensor.  
Max unloading capacity 15-20 pieces (optional extension for the unloading table).

### LABEL PRINTER

The industrial label printer enables identifying every cut profile according to the specifications given in the cutting list. Furthermore, the barcode printer enables easy identification of the profile itself, which is particularly useful for subsequent machining phases on the working centres or on assisted assembly lines. Possibility to print out bitmaps.



## SOFTWARE

Operative system Windows CE.  
This operative system belongs to the product family Windows Embedded.

It has been designed exclusively for the market of embedded industrial products and combines advanced characteristics of reliability and robustness.

## PERTICI SOFTWARE

Manual control of every function from touch screen. Storage of profile data and view of .dxf profile section. Viewing and/or editing of cutting lists. 400 characters stored in 25 different fields for each piece. Reception of cutting lists from USB devices. Cutting lists and profile data almost unlimited.

Optimization of cutting lists.

Symmetrical profile cutting (two pieces with 3 cuts, with no waste). Creation and editing of label, with choice of format and font size. Off-cut reuse management (automatic off-cut measurement and reuse). Label with single reference for each off-cut (for easy storage).

Off-cut reuse on cutting centre or on external saw (creating labels). Correction of cutting length for welding reduction, settable from SETUP function. Correction of profile height settable for each stored profile. Remote assistance.

Timing and statistic facility to easily export production data into Excel format (weekly reports and montly reports). Self-diagnostic facility linked with instruction manual troubleshooting. Bitmap printing on labels and printing of a variable number of labels with different content for each single piece.

# SPECIFICATIONS

## and optional

| BLADE DIAMETER                                               | SC 55           |
|--------------------------------------------------------------|-----------------|
| Carbide saw blades (mm)                                      | 500             |
| MACHINE FEATURES                                             |                 |
| Electronic tilting from                                      | ◦               |
| Pneumatic tilting from                                       | -45° to +45°    |
| Pneumatic blade advance                                      | •               |
| Lubrication system                                           | ◦               |
| Profile height measuring device                              | ◦               |
| PRODUCTION                                                   |                 |
| Window production in 8 hours shift                           | 240             |
| BLADE FEED                                                   |                 |
| Blade motor power (Kw)                                       | 2,2             |
| CN controlled axis                                           | •               |
| SAFETY AND PROTECTIONS                                       |                 |
| Front protection                                             | •               |
| POSITIONING AND PROFILE CLAMPING                             |                 |
| Pair of horizontal pneumatic clamps with low pressure device | •               |
| Pair of pneumatic vertical clamps with low pressure device   | •               |
| OPERATOR INTERFACE                                           |                 |
| Touch screen industrial PC panel                             | •               |
| Net card RJ45                                                | •               |
| Label printer kit                                            | •               |
| OPERATING SOFTWARE FOR CUTTING CENTRE                        |                 |
| Bar optimization                                             | •               |
| Office software import driver                                | •               |
| FUNCTIONS                                                    |                 |
| Execution of single cuts                                     | •               |
| Execution of cuts at intermediate angles                     | ◦               |
| OPTIONAL FUNCTIONS                                           |                 |
| Wedge cut (4)                                                | •               |
| MACHINE DIMENSIONS ( L x H x W )                             | 12000x1900x2380 |
| Working surface height (mm)                                  | 1000            |
| Weight (kg)                                                  | 2500            |

### INDEX

Included • Optional ◦ Not available -

