



## 2 Installation

This charter provides all of the information on delivery, transportation, technical data, installation and commissioning of the system.

### 2.1 Delivery

The FLEX-MATIK system is delivered by MANIA and installed on the site designated by the client. The material indicated below is delivered with the system:

- the testing system, according to the details on the order
- possible accessories contemplated in the order;
- the manual

Inspect the material delivered to ensure it is in conformity with the order. A signature is requested to attest to the completeness of the supply and as a matter of protocol for delivery. Subsequent claims for damages for incomplete deliveries cannot be accepted.

### 2.2 Installation

The FLEX-MATIK automatic testing system is installed by MANIA assistance personnel, as part of MANIA's customer service.

#### 2.2.1 Technical data

##### **MICRO 100 / 200 Testing machine**

<b>Length</b>	1418 mm
<b>Width</b>	1140 mm
<b>Height</b>	1870 mm
<b>Weight</b>	1350 Kg
<b>Power</b>	380V +/- 10% AC (R,S,T + terra)
<b>Frequency</b>	48-60 Hz
<b>Consumption</b>	4.5 KW max.

Further information can be found in the MICRO machine user's manual.

## Flex-Matik Loading Module

**Length** 1415 mm  
**Width** 950 mm  
**Height** 1856 mm  
**Weight** 360 Kg

## Flex-Matik Unloading Module

**Length** 1455 mm  
**Width** 1750 mm  
**Height** 1856 mm  
**Weight** 330Kg

## Loading/unloading module power

**Pneumatic** 600 KPascal (6 atm) maximum consumption 500 liters per minute @ 600 KPascal  
**Electric** 220V +/- 10% AC (L,N + ground) 9A max

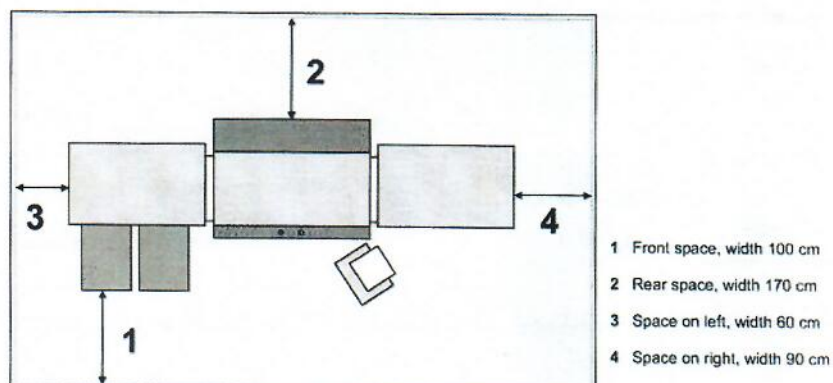
## Environmental specifications

**Aerial noise transmission** < 70 dBA  
**Working temperature** 17 °C - 23 °C  
**Relative Humidity** 45% - 65%

### 2.2.2 Selection of site

The desired installation site for the FLEX-MATIK automatic testing machine must satisfy the following requirements:

- flat and sufficiently solid site to sustain the weight of the system (see section 2.2.1 Technical Data);
- sufficient illumination;
- conformity with the required environmental conditions (see section 2.2.1 Technical data);
- the area around the machine must be as indicated in the figure below;



### 3 Description of the machine

The automatic testing system for the FLEX-MATIK electric test is described in detail in this chapter.

#### 3.1 Automatic electrical testing system

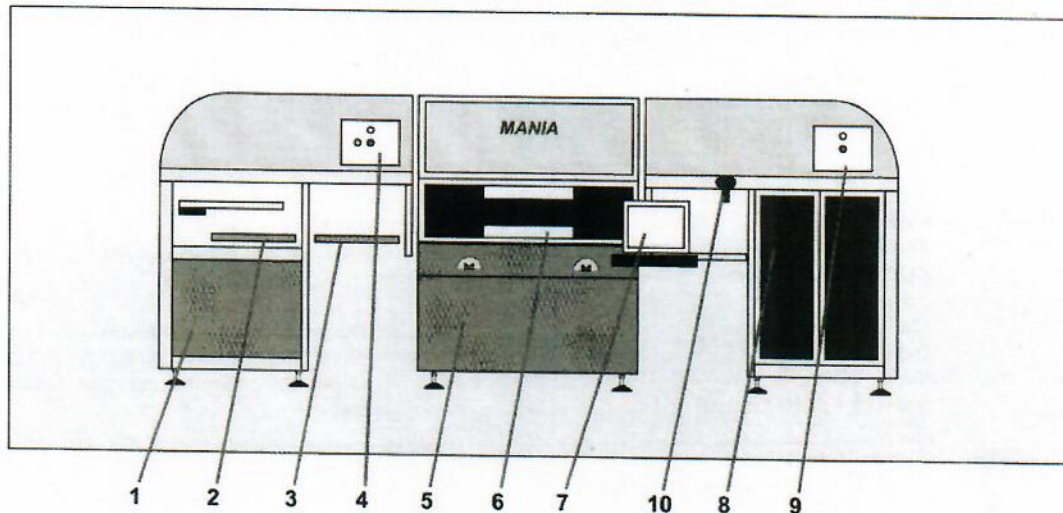
The FLEX-MATIK automatic electrical testing system is made up of two different machines: the manual PRECISE or MICRO testing machine, (which works as a master) and the Flex-Matik Loading/Unloading machine (which works as a slave), which is an option that can be installed on any manual PRECISE or MICRO testing machine.

The manual testing machine, supplied with the FLEX-MATIK system, can also operate in the manual mode, since this is completely independent of the loading/unloading option.

There are two modules, in turn, of the Flex-Matik Loading/Unloading machine:

**FLEX-MATIK loading module** Loading module that picks up the PCB from the stack of circuits to be tested and deposits it in the testing area of the testing machine

**FLEX-MATIK Unloading module** Unloading module, which picks up the tested PCB and deposits it on the PCB GOOD or FAIL, according to the results of the test.



- 1 Flex-Matik unloading module
- 2 GOOD stack conveyor
- 3 FAIL stack conveyor
- 4 Unloading panel module
- 5 Testing machine
- 6 Testing area
- 7 User terminal

- 8 Flex-Matic loading module
- 9 Loading module control panel
- 10 Control panel for manual movements

NOTE: The loading module control panel may be on the right or left, as desired.

