INSTRUCTION MANUAL

Serial N°---------

02/96
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1. **GENERAL**

1.1. **Parts identification:** there are two different methods for identifying the same part:

1.1.1. Each part appearing in a drawing may be identified, by the drawing number (five digits) followed by the number as shown in the same drawing.
Example: 06002/6
This means: part shown as 6 on drawing 06002, i.e. wheel.

This is the method used in the instructions of this manual.

1.1.2. Each drawing is followed by a "legend" where each part is described and identified with a pos. number (2 in the above example) as well as a ref. number (46054 in the example).

This is the real number which identifies the part in question. The same part may appear in a different drawing or in a different manual (= machine) where it may be identified with a different pos. number (example drawing 06000 pos. 6) but the same ref. number (46054) will be given.

1.2. **Specifications**

### Maximum panel width: 660 mm

### Maximum panel thickness: 5 mm

### Minimum panel thickness: 0,1 mm (inner layers of multilayers)

### Smallest board length: 170 mm

### Conveyor speed: 0 - 5,5 m/min.

- **First stripping chamber:** length 1430 mm
  capacity of tank 290 litres

- **Second stripping chamber:** length 330 mm
  capacity of tank 115 litres

### Work space: see drawing 05017 and 05019
Overall dimensions:  
width 1500 mm  
length 3740 mm  
height 1300 mm

Approximate net weight: 1500 kg (1800 with drier)

Approximate gross weight: 1800 (2100 with drier)

Electric power supply: 37 kW 380 Volts, three phase, 50 Hz (others upon request)

Water consumption: approximately 500-700 litres/hour at mains pressure (2 to 3 kg/cm²)

2 DESCRIPTION

The machine has been specifically designed for processing aqueous dry-films by means of alkaline solutions and ensures perfect stripping of the dry-films of this type, used in the manufacture of printed circuit boards.

2.1. General information

The STRIPMASTER is the result of close collaboration with the leading manufacturers of p.c. boards and includes our long experience in this field.

This unit features the well-known advantages of our machines such as: highest efficiency, ease of maintenance, quick replacement of all parts.

Main material used in construction is stainless steel.

The basic frame is of a self-supporting design and consists of 3 mm thick stainless steel, bent and welded to final shape to give the highest chemical and mechanical resistance.

The stripping and washing sections are sealed by means of a large tempered glass cover. This cover with spring loaded supports can be easily opened for check-ups and maintenance. The machine is delivered ready to operate and needs only very simple connections to power, water supply and drain.

A stainless steel bottom tray is provided as a built-in item and allows easy and fast installation without any particular preparation of the floor.

The adjustable feet on the machine compensate for any unevenness of the floor.

The materials to be processed are transported through the following stations:
2.2. Description of stations (see drawing 05012)

2.2.1. Free input conveyor "A": length 660 mm

This consists of six driven stainless steel shafts with rubber wheels.

2.2.2. Separating chamber "B": length 110 mm

2.2.3. First stripping chamber "C": length 1430 mm

Most of the coating to be removed from the boards will come off at this stage.

Characteristics:

Two heaters 4000 W
Two centrifugal pumps kW 5,5 each
Spray pressure roughly 4 bar
Pump capacity roughly 300 l/min.
Two cooling coils controlled by solenoid valve
Level control with two points of intervention: drain of waste solution at maximum level and alarm with protection of heaters at minimum level.

2.2.4. Second stripping chamber "D": length 330 mm

The boards must be completely cleaned before leaving this station.
Fresh solution is fed into this chamber and cascades into the first developing chamber.

Characteristics:

One heater 4000 W
One centrifugal pump kW 1,5
Spray pressure 4 bar
Pump capacity roughly 100 l/min.
Low level alarm for heater protection
One cooling coil controlled by a solenoid valve
2.2.5. First rinse chamber "E": length 330 mm

Rinse water is recirculated by means of a centrifugal pump and water is renewed in cascade from rinse chamber "F".

2.2.6. Second rinse chamber "F" length 330 mm

Rinse water is recirculated by means of a centrifugal pump and water is renewed in cascade from rinse chamber "G".

2.2.7. Last rinse chamber "G": length 330 mm

The final rinse is supplied with water coming from the mains through which is controlled by the board sensor on the input conveyor: This water cascades into rinse section "G". Water consumption is roughly 680 l/h during effective production.

2.2.8. Squeegee section "H": length 220 mm

The boards are squeezed in this section and leave the machine partially dry.
D = Exhaust for input conveyor #60 mm.
E = Right hand drain valve for tray #1" G
G = Waste solution outlet #1" G
H = Left hand drain valve for tray #1" G
L = Safety overflow for solution #60 mm.
M = Rinsing water overflow #60 mm.
N = Power supply standard 35 KW
P = Exhaust for rotating filter #60