

## **1. Summary configuration and characteristics of the machine**

- Table XY chuck +fine movement + Charger
- Table XY optique
- Head theta Z
- Arm de reflow
- Thempe
- Arm of Thermo
- Optique + laser levelling
- Chuck chauffant 2"
- Station intermediaire
- Flipper
- Double dispenser
- Joysticks
- PC
- Kit decalibration
- Spécial

## **2. Configuration and characteristics of the machine**

### **2.1. Table XY chuck**

#### **Coarse X and Y axes**

- Race X and Y	300 x 250 mm
- Axis resolution	1 µm
- Speed	120 mm/s

#### **End X and Y axes**

- Course	+/- 25 µm
- Axis resolution	0.1µm
- Speed	0.2 mm/s

### **Sommaire configuration**

## **2.2. Optical XY table**

### **X and Y axes**

-Course	143 x 40 mm
- Axis resolution	1 $\mu\text{m}$
- Speed	120 mm/s

### **Summary configuration**

## **2.3. Theta Z head**

### **Axe Z**

- Course	See para. Equip.
- Z axis resolution	2.5 $\mu\text{m}$
- Speed	9 mm/s

### **Theta axis**

- Course	+/- 7 you
- Axis resolution	$10^{-4}$ row
- Speed	9 deg/s

### **Summary configuration**

## **2.4. Reflow arm**

### **Axe Z**

-Type of engine Z	Step by step
- Course	160 mm
- Z axis resolution	0.5 $\mu\text{m}$

### **Axis X and Y parallelism**

- Engine type	direct current
- Course	$\pm 0.7$ you
- Axis resolution	20 $\mu\text{rad}$

### **Force sensor**

- Type of force sensor	500 gr
- Maximum permissible force	400 gr

## **Summary configuration**

### **2.5. lamp**

#### **Axe Z**

- Type of engine Z
  - Course
  - Z axis resolution
- Step by step  
160 mm  
0.5 µm

#### **Four**

- Lamps
- 2 x 800 W

## **Sum up the reconfiguration**

### **2.6. optics**

#### **Microscope**

- Fields in the binocular
  - Fields in color camera monitor
  - Objectives
  - Eyepieces
- Ø 1mm  
375 x 280 µm  
20 X  
10 X

#### **Self-collimating bezel**

- Resolution

#### **Laser levelling**

- Resolution

## **Summary configuration**

### **2.7. Chuck heating 2"**

#### **Characteristics**

- Maximum temperature	450 °C
- Resolution	1 °C
- Maximum power	1600 W
- Maximum voltage	230 V
- Type of lamps	2 x 800 W

### **Thermode**

- Type of Thermode	Low strength 2"
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### **Confinement**

- Type	
- Number of gases available	Nitrogen,Gas 1

## **Summary configuration**

### **2.8. Station intermediate**

#### **Characteristics**

- Models	- 40 48 20 M 000 B
- Chuck	- 05.48.20.0003.0

## **Summary configuration**

### **2.9. Flipper**

#### **Characteristics**

- Chip rotation	- 180°
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## **Summary configuration**

## **2.10. Double dispenseur**

### **Characteristics**

- |                 |            |
|-----------------|------------|
| - Type EFD (x2) | EFD 1500XL |
|-----------------|------------|

### **Sommaire configuration**

## **2.11. Joysticks**

### **Composition**

- |                  |          |
|------------------|----------|
| - Left Joystick  | JSA 03 P |
| - Right joystick | JSA 04 P |

### **Contents configuration**

## **2.12. PC**

### **Configuration**

- |                   |  |
|-------------------|--|
| - Type            | - DELL dimension XPS T500                  |
| - RAM size        | - 256 Mo                                   |
| - Ethernet card   | - 3ComEtherlink 10/100(PCI)<br>(3C905C-TX) |
| - Added cards     | - ATMIO Bus PCI                            |
| - Version Windows | - Cognex8000                               |
| - Screen driver   | - IO 7225 PCI                              |
|                   | - WinNT 4.0/SP.6                           |
|                   | - Rage 128 Pro AGP 4x ATI                  |

### **Sumire configuration**

## **2.13. Calibration kit**

### **Composition**

2	ALIGNMENT PATTERN	05.48.68.0001.B
2	TEST CHIP	05.48.68.0002.D
2	4" test chip feeder	05.48.0V.0437.B
2	CHUCK 2" thickness 3.5 mm	05.48.66.0487.0
1	PIPETTE Island 12 - Wide Island 8	30.03.0R.0017.0

## Summary configuration

### **2.14. Special**

- Double exempting (see summary)
- Set machine for using 8 mmthicketer tools
- Preparation of the building for UV option with fiber (Tablet rises above the levelling laser rack to install the UV power supply)
- Flat panel

## Summary configuration