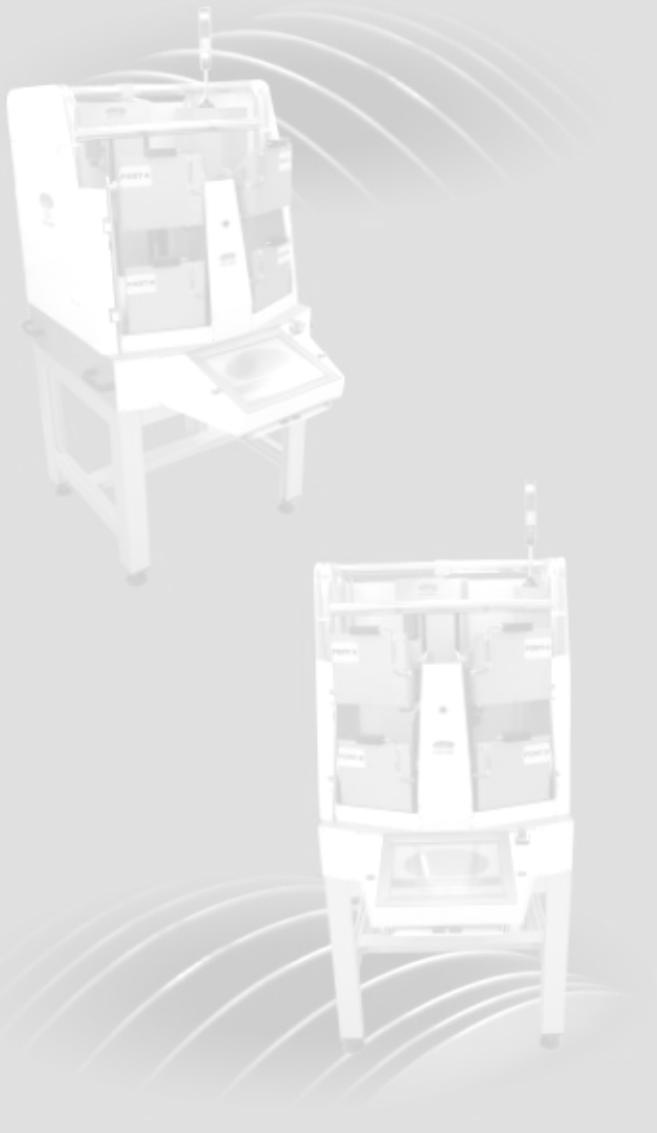


# Products TB-Ploner GmbH

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2019



**FOUR-CASSETTE-SORTER**  
FCS-Series



TB-Ploner GmbH

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# Compact Universal Sorter FCS Series

**Get the most compact 4-Cassette Sorter.**

The FCS is designed for automatic sorting based on wafer Id's. The system consists of four load-ports with 4", 6", 8" capability , optical wafer notch/flat-aligner and a linear-robot.

With this system it is possible to split ,merge,sort,compress wafer-lots, or create individual wafer-mix as desired.





# Compact Universal Sorter FCS Series

- Increased efficiency for wafer handling and sorting.
- Automatic mode upon loading the cassette including cassette scanning and sorting.
- Detection of cross and double-slot wafers
- 4", 5", 6" & 8" notched or flat wafer capability
- Precise wafer scribe alignment +/- 0.5°
- Thin wafer capability
- Wafer-Flip-Modes
- Compact footprint
- 13-Slot Cassette capability
- Recipes and macros can be stored on system and selected through a color-touchscreen.
- Throughput >600 wph
- Low cost of ownership
- Full SECS/GEM compliance
- User friendly windows interface



The FCS is compatible with most standard plastic wet/dry process cassettes, shipping, metal cassettes and storage containers. Custom models are available for non-standard carriers.

**NOTE:** Please specify cassette model numbers when ordering.



TB-Ploner GmbH

# Compact Universal Sorter FCS Series

## **Specification**

- Integrated Industrial PC
- 15 " Colour-PanelPc
- Integrated Touchscreen.
- Integrated Keyboard.
- Mousepad
- Ethernet connection RJ45-Connector (TCP/IP).
- Open design resulting in minimal laminar flow disturbance.

## **Performance**

- Throughput > 600 wph
- MTBF > 5000 hrs
- MTTR < 4 hrs
- MTBA > 1000 hrs
- Wafer breakage 1/100 000

## **Options**

- Barcode gun
- Automatic Cassette-Identification ( Barcode-label required on cassettes)
- RFID-Cassette-Identification
- Wafer-Flipping
- Thinwaferhandling
- SECS/HSMS-Interface
- Custom modes

## **Standard Modes**

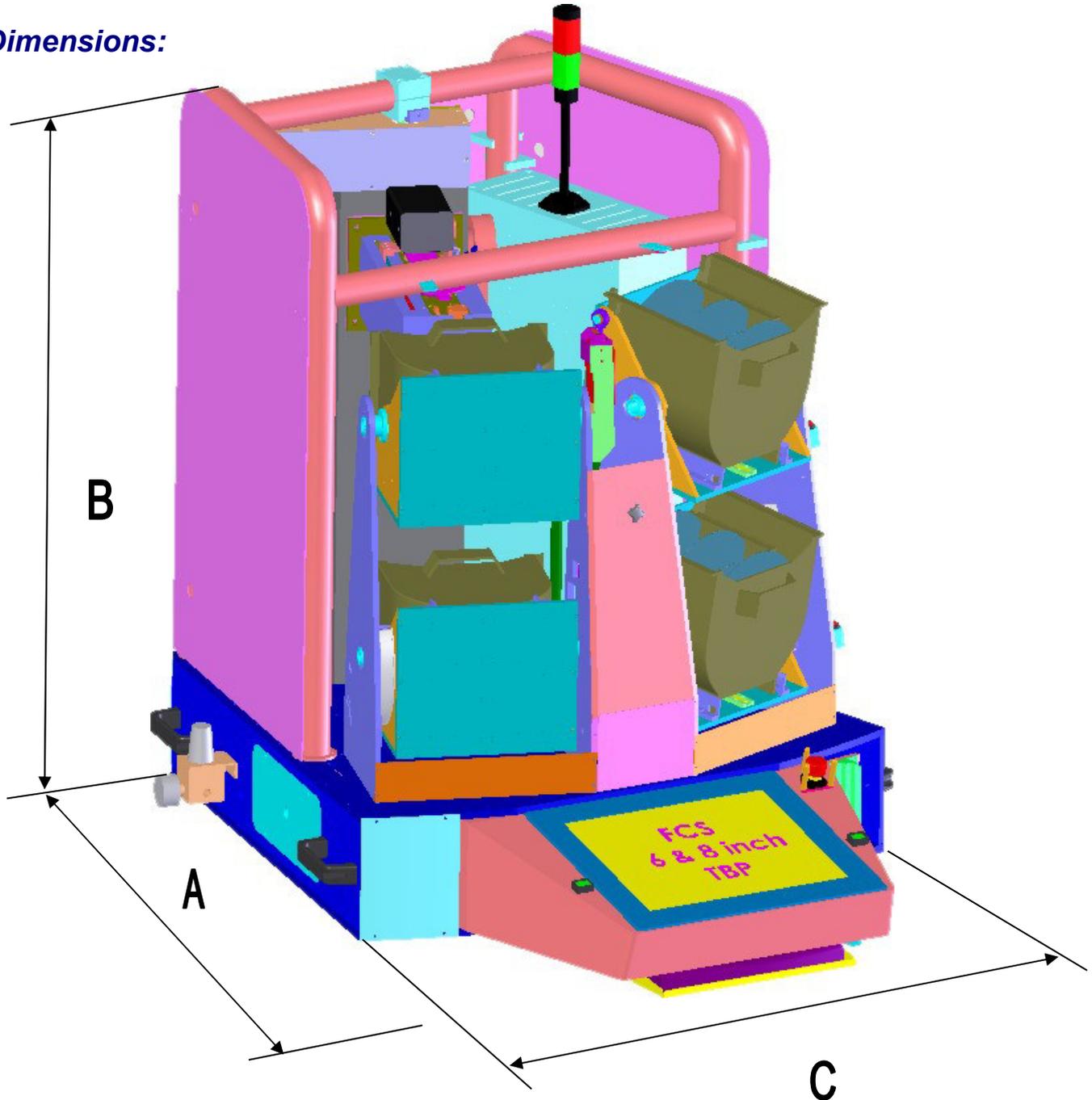
- Shift transfer
- Split / Merge
- Invert
- Compress to top ( by ID or Slot)
- Compress to bottom ( by ID or Slot)
- Drag and Drop wafer
- Numeric Sort
- Randomized Sort
- Flip-Modes



TB-Ploner GmbH

# Compact Universal Sorter FCS Series

**Dimensions:**



## Facilities requirements:

Overall dimension (mm):

|          | <b>FCS</b>  |
|----------|-------------|
| <b>A</b> | <b>1100</b> |
| <b>B</b> | <b>1100</b> |
| <b>C</b> | <b>800</b>  |

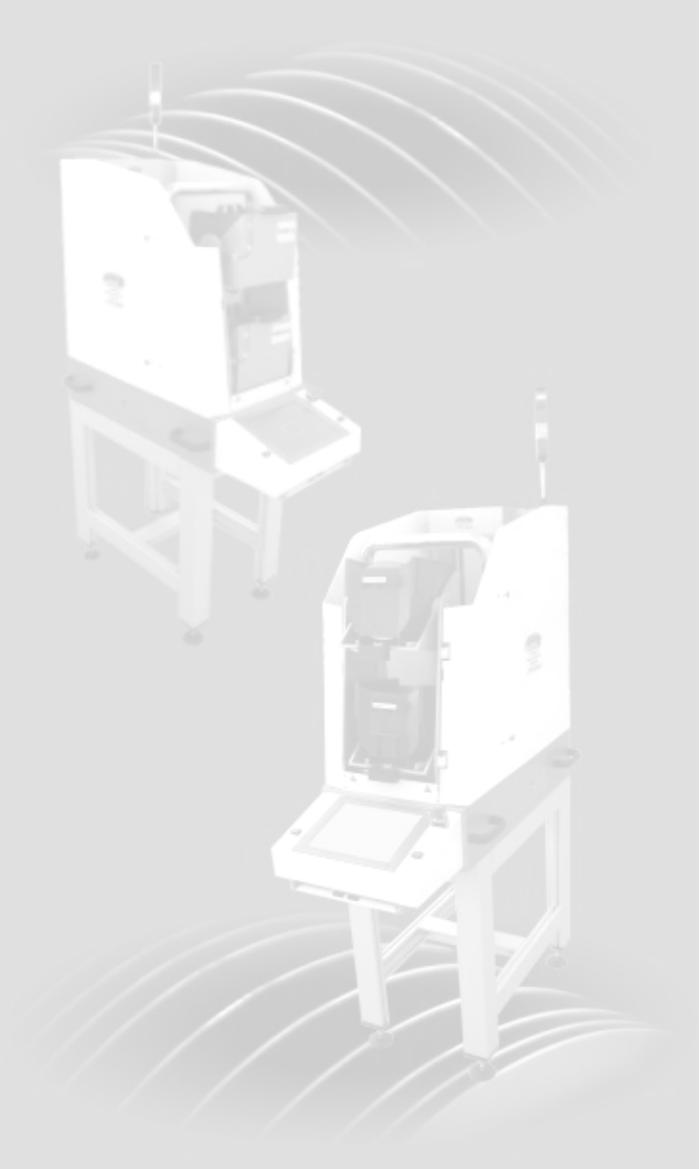
- **Weight:160 kg**
- **Electrical:100-240 VAC ,5A, 50-60 Hz**
- **Vacuum:-40-50 kPa,Flow rate 5liter/min**



TB-Ploner GmbH

# Compact Universal Sorter FCS Series





**COMPACT-TWO-CASSETTE  
SORTER**  
CTS-Series



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# Compact Two-Cassette Sorter CTS Series

## ***Get the most compact Two-Cassette Sorter.***

The CTS series is designed for automatic sorting based on wafer Id's. The system consists of two automatic tilting load-ports , wafermap-sensors, optical wafer notch/flat-aligner and a linear-robot.

With this system it is possible to split ,merge,sort,compress,flip wafer-lots,or create individual wafer-mix as desired.





# Compact Two-Cassette Sorter CTS Series

- Increased efficiency for wafer handling and sorting.
- Automatic mode upon loading the cassette including cassette scanning and sorting.
- Detection of cross and double-slot wafers
- notched or flat wafer capability
- Precise wafer scribe alignment +/- 0.5°
- Thin wafer capability (optional)
- Compact footprint
- 13-Slot Cassette capability (optional)
- 26-Slot Cassette capability (optional)
- Recipes and macros can be stored on system and selected through a color-touchscreen.
- Throughput >600 wph
- Low cost of ownership
- Full SECS/GEM compliance
- User friendly human-machine interface



The CTS is compatible with most standard plastic wet/dry process cassettes, shipping, metal cassettes and storage containers. Custom models are available for non-standard carriers.

**NOTE:** Please specify cassette model numbers when ordering.



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# Compact Two-Cassette Sorter CTS Series

## **Specification**

- Integrated Industrial PC
- 12,1 " Colour-Flatscreen
- Integrated Touchscreen.
- Integrated Keyboard.
- Mousepad
- Ethernet connection RJ45-Connector (TCP/IP).
- USB and RS232 Interfaces
- Open design resulting in minimal laminar flow disturbance.

## **Performance**

- Throughput > 600 wph
- MTBF > 5000 hrs
- MTTR < 4 hrs
- MTBA > 1000 hrs
- Wafer breakage 1/100 000

## **Options**

- Barcode gun
- Automatic Cassette-Identifikation ( RFID )
- RFID-Cassette-Identification
- Wafer-Flipping
- Thinwaferhandling
- SECS/HSMS-Interface
- Custom modes

## **Standard Modes**

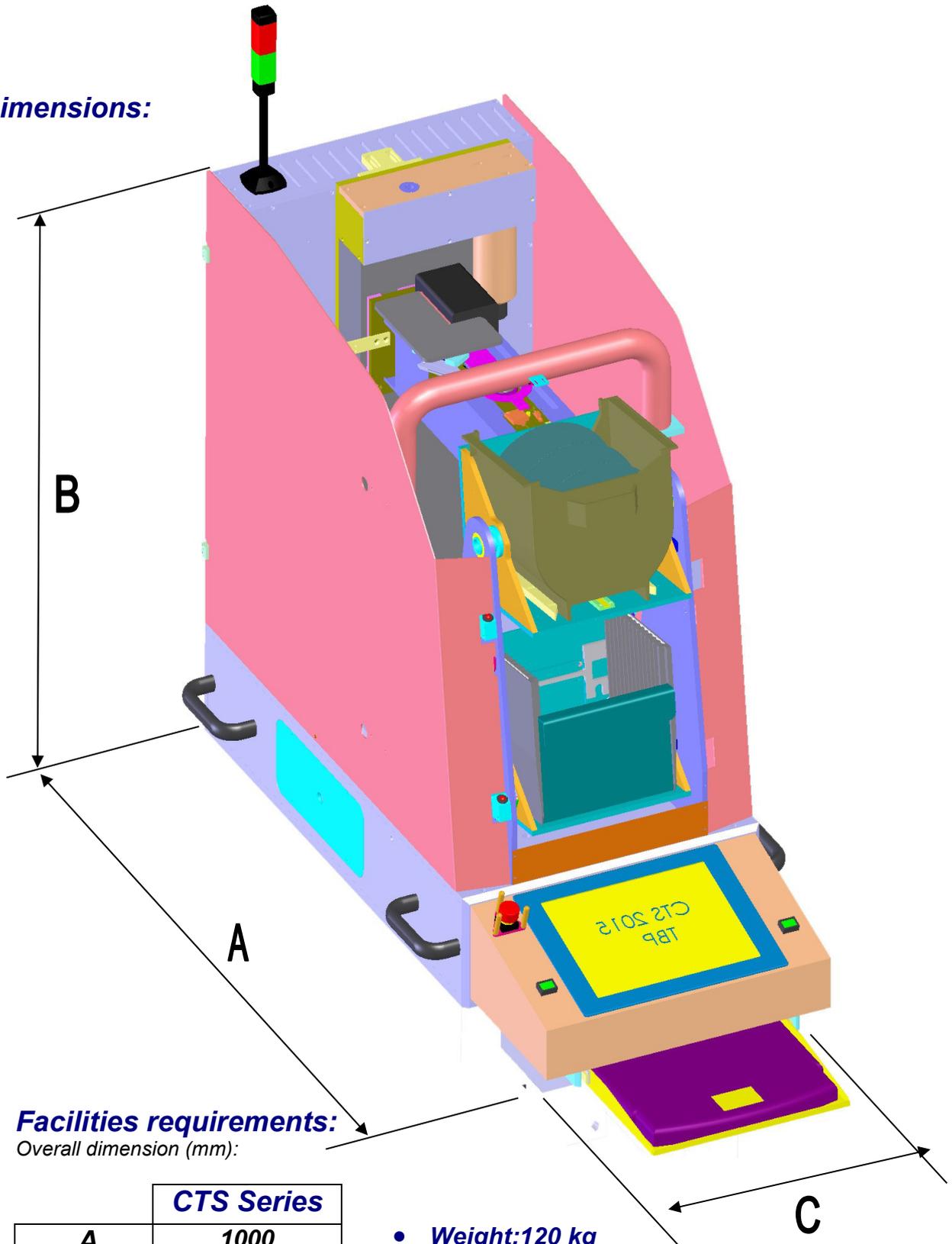
- Shift transfer
- Split / Merge
- Invert
- Compress to top ( by ID or Slot)
- Compress to bottom ( by ID or Slot)
- Drag and Drop wafer
- Numeric Sort
- Randomized Sort



TB-Ploner GmbH

# Compact Two-Cassette Sorter CTS Series

## Dimensions:



## Facilities requirements:

Overall dimension (mm):

| CTS Series |      |
|------------|------|
| A          | 1000 |
| B          | 900  |
| C          | 450  |

- Weight:120 kg
- Electrical:100-240 VAC ,5A, 50-60 Hz
- Vacuum:-40-50 kPa,Flow rate 5liter/min



TB-Ploner GmbH

# Compact Two-Cassette Sorter CTS Series

## **Availability:**

Tool availability > 97%

MTBF > 4000 h

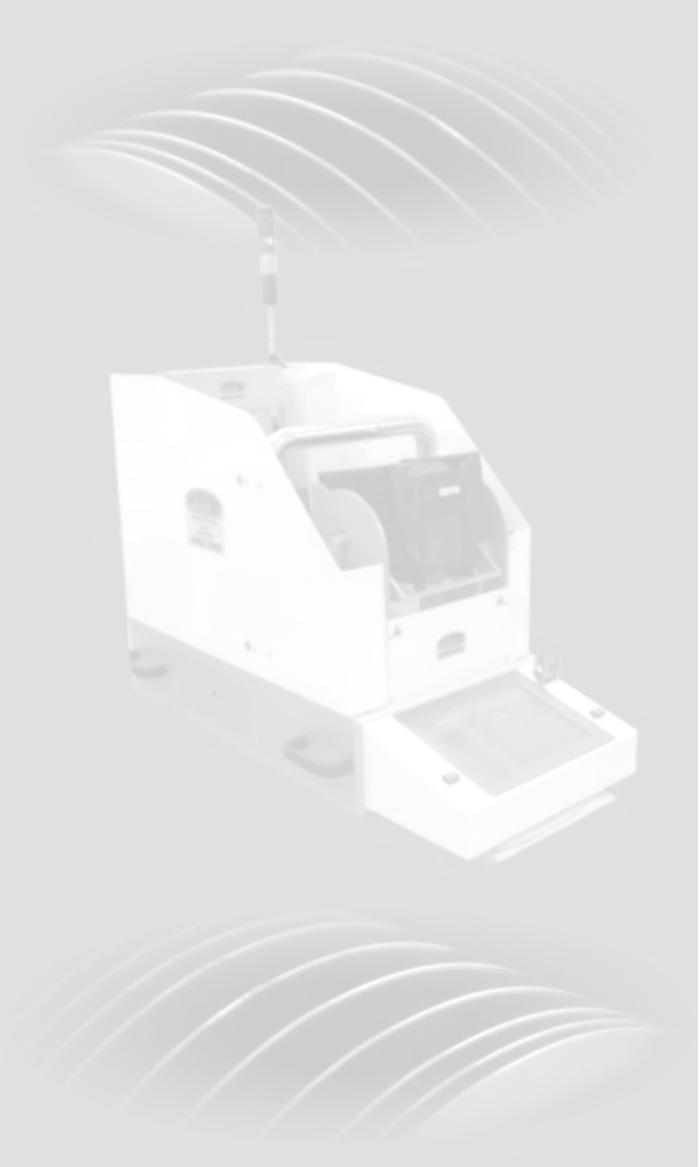
MTTR < 4 h

MTBA > 200 h

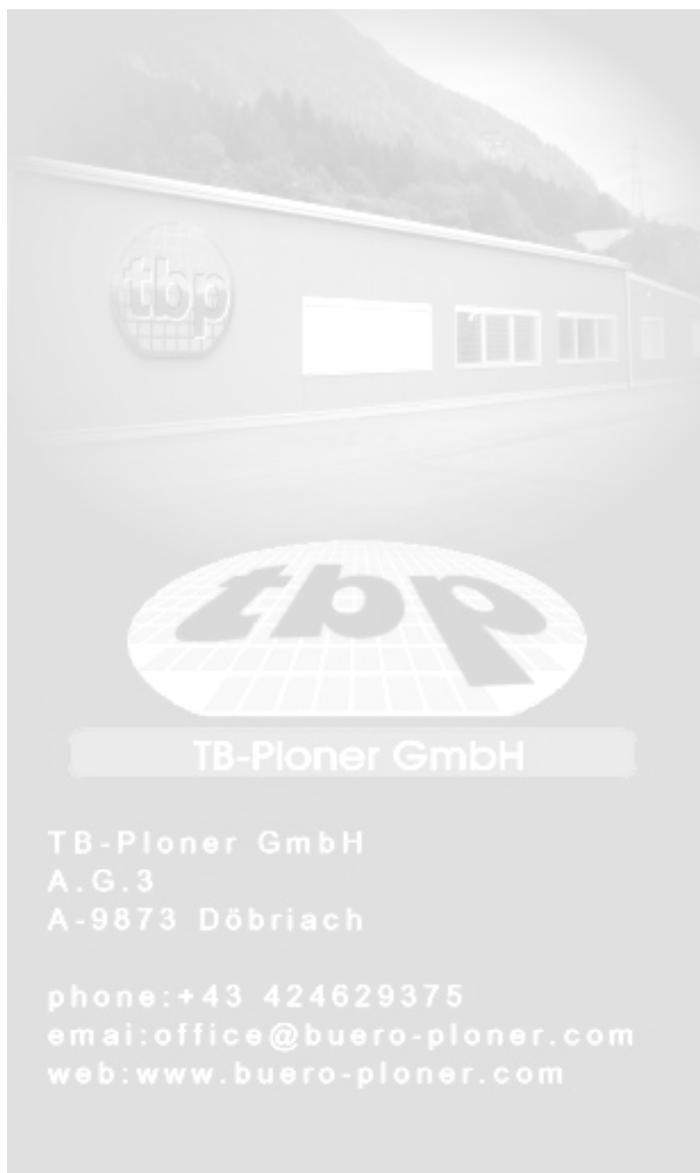
## **Clean concept:**

Class 10





***HORIZONTAL-MAP-SYSTEM***  
HMS-Series



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# Horizontal-Map-System HMS-Series

The HMS-Series is designed to read wafer Id's.  
The system consists of one load-port, a optical wafer alignment and a linear-robot.

With this system it is possible to read wafer-Id's and optionally a wafer batch can be sorted to the same cassette.





# Horizontal-Map-System HMS-Series

- Increased efficiency for wafer handling and reading.
- Automatic mode upon loading the cassette including cassette scanning and reading.
- Detection of cross and double-slot wafers
- notched or flat wafer capability
- Precise wafer scribe alignment +/- 0.5°
- Thin wafer capability (upon request)
- Compact footprint
- 13-Slot Cassette capability (upon request)
- Recipes and macros can be stored on system and selected through a color-touchscreen.
- Throughput >600 wph
- Low cost of ownership
- Full SECS/GEM compliance
- User friendly windows interface



The HMS2015 is compatible with most standard 6" and 8" plastic wet/dry process cassettes, shipping, metal cassettes and storage containers. Custom models are available for non-standard carriers.

**NOTE:** Please specify cassette model numbers when ordering.



# Horizontal-Map-System HMS-Series

## **Specification**

- Integrated Industrial PC
- 12,1 " Color-Flatscreen
- Integrated Touchscreen.
- Integrated Keyboard.
- Touchpad
- Ethernet connection RJ45-Connector (TCP/IP).
- Open design resulting in minimal laminar flow disturbance.

## **Performance**

- Throughput > 600 wph
- MTBF > 5000 hrs
- MTTR < 4 hrs
- MTBA > 1000 hrs
- Wafer breakage 1/100 000

## **Options**

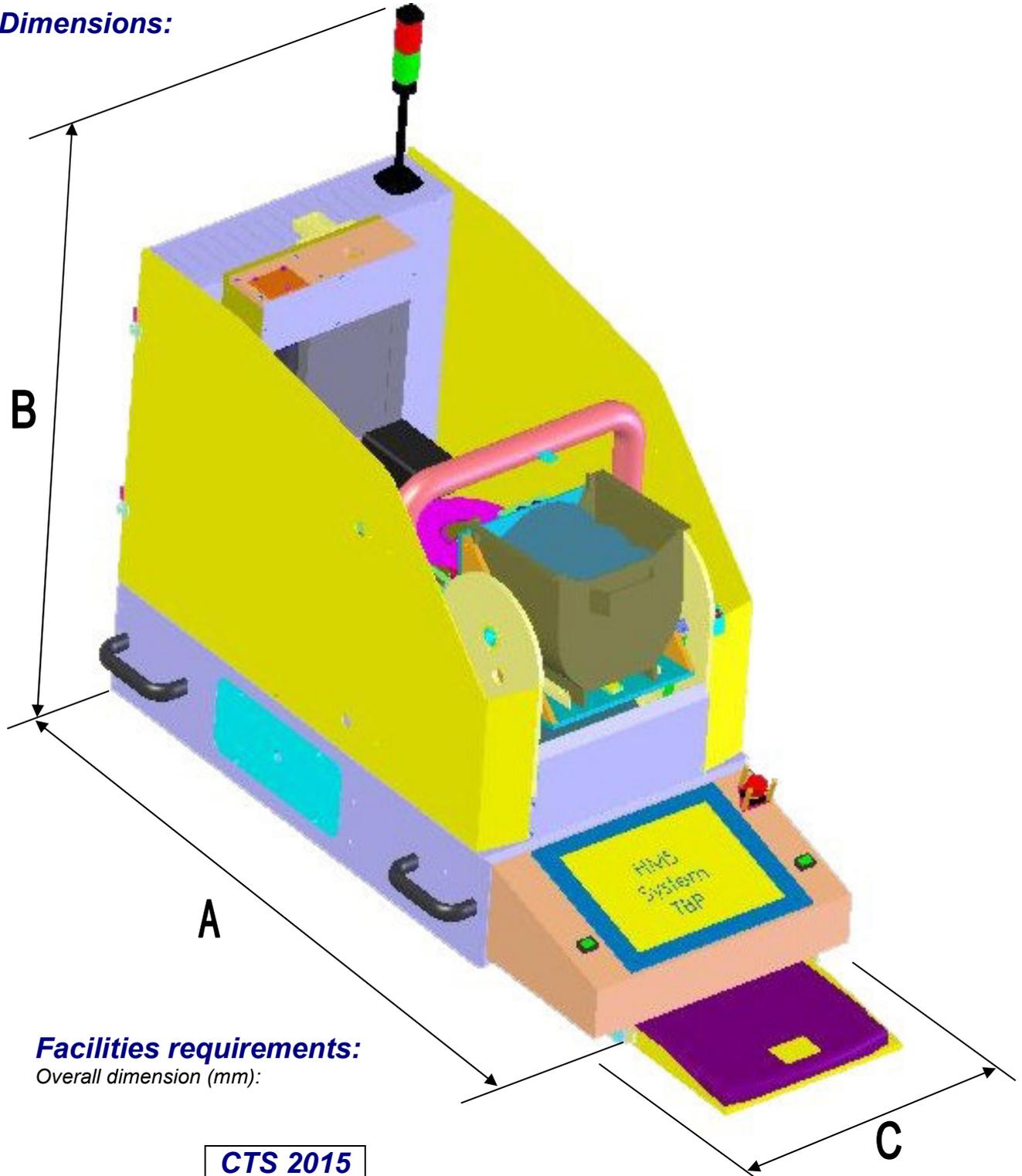
- Barcode gun
- Automatic Cassette-Identifikation ( RFID)
- Thinwaferhandling
- SECS/HSMS-Interface
- Custom modes



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# Horizontal-Map-System HMS-Series

## Dimensions:



## Facilities requirements:

Overall dimension (mm):

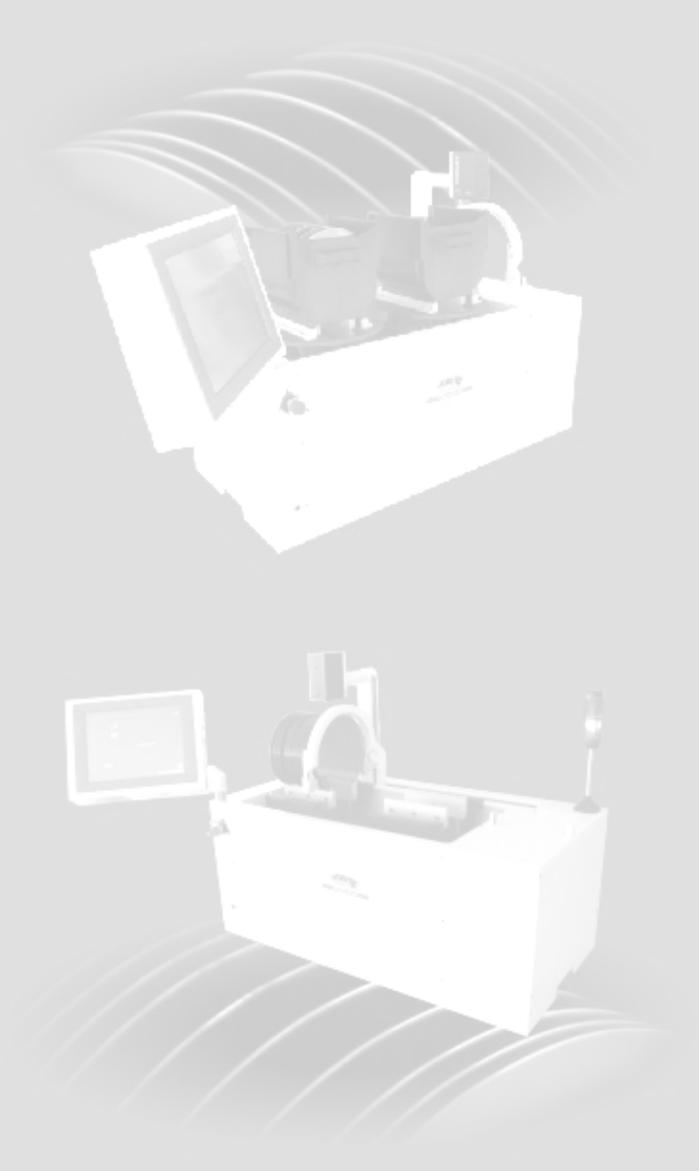
|          | <b>CTS 2015</b> |
|----------|-----------------|
| <b>A</b> | <b>1000</b>     |
| <b>B</b> | <b>1000</b>     |
| <b>C</b> | <b>450</b>      |

- **Weight:65 kg**
- **Electrical:100-240 VAC ,5A, 50-60 Hz**
- **Vacuum:-40-50 kPa,Flow rate 5liter/min**



# Horizontal-Map-System HMS-Series





## **TWO-CASSETTE-SORTER**

TCS 8"  
Vertical Sorter





TB-Ploner GmbH

# Two Cassette Sorter TCS 8 "

The sorter is designed for automatic sorting based on wafer IDs.  
The system consists of two aligners, a wafer-id-read-unit, and a vacuum free single and batch wafer transfer capability.

## **Vertical Sorter**

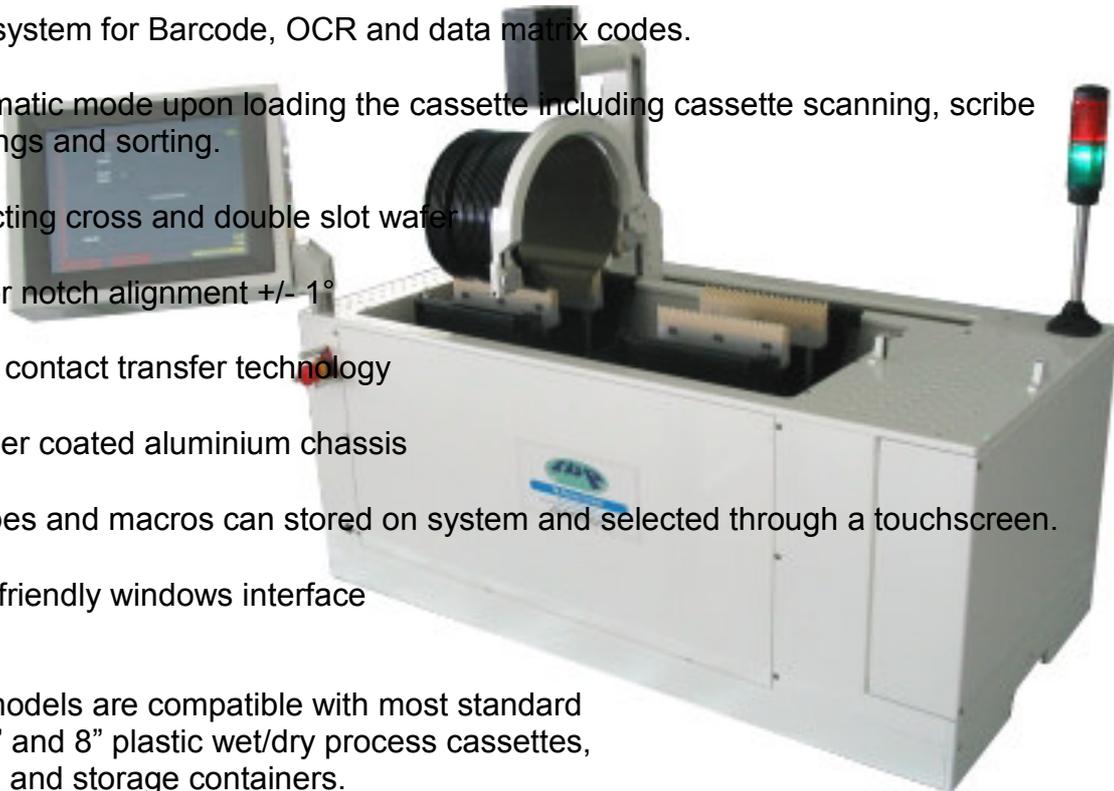




# Two Cassette Sorter TCS 8 “

## Vertical Sorter

- Get more efficiency by your wafer handling and sorting with this system.
- One system for Barcode, OCR and data matrix codes.
- Automatic mode upon loading the cassette including cassette scanning, scribe readings and sorting.
- Detecting cross and double slot wafer
- Flat or notch alignment +/- 1°
- Edge contact transfer technology
- Powder coated aluminium chassis
- Recipes and macros can stored on system and selected through a touchscreen.
- User friendly windows interface



These models are compatible with most standard 4”, 5”, 6” and 8” plastic wet/dry process cassettes, shipping and storage containers.

Units are not compatible with metal cassettes.

Custom models are available for metal cassettes and non-standard carriers.

### **BC 412**



### **OCR**



### **2-D Dot Matrix**



**NOTE:** Please specify cassette model numbers when ordering.



TB-Ploner GmbH

# Two Cassette Sorter TCS 8 "

## Specification

- Industrial PC
- 12,1" Color-Flatscreen
- Integrated Touchscreen.
- Integrated Keyboard.
- Ethernet connection RJ45-Connector (TCP/IP).
- Open design resulting in minimal laminar flow disturbance.

## Performance

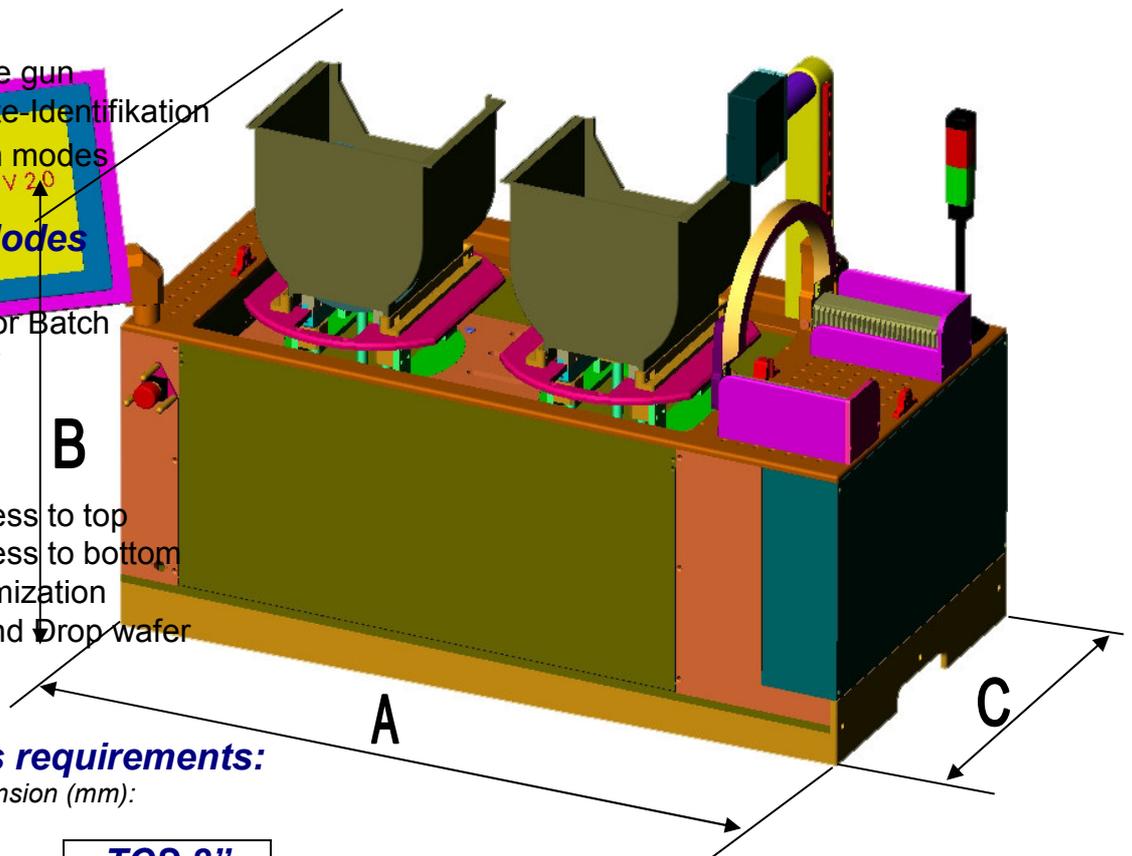
- Time to read 25 wafer  
< 2 min  
( alignment & scan & read)

## Options

- Barcode gun
- Cassette-Identifikation
- Custom modes  
TCS 8 inch V 2.0

## Standard Modes

- Single or Batch transfer
- Split
- Merge
- Invert
- Compress to top
- Compress to bottom
- Randomization
- Drag and Drop wafer

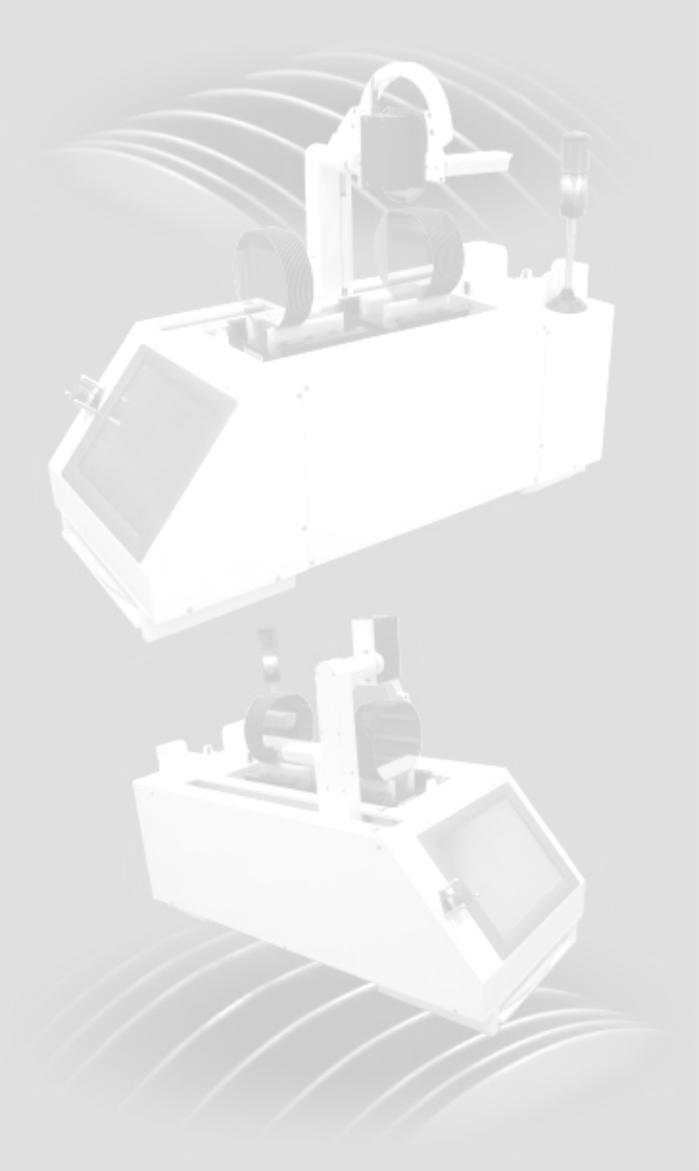


## Facilities requirements:

Overall dimension (mm):

| TCS 8"   |            |
|----------|------------|
| <b>A</b> | <b>900</b> |
| <b>B</b> | <b>850</b> |
| <b>C</b> | <b>440</b> |

- **Weight: 55 kg**
- **Full range 100-240 VAC , 50-60 Hz**



## **TWO-CASSETTE-SORTER**

TCS 6"  
Vertical Sorter





# Two Cassette Sorter TCS 6"

The sorter is designed for automatic sorting based on wafer IDs.  
The system consists of two aligners, a wafer-id-read-unit, and a vacuum free single-batch wafer transfer capability.

## Vertical Sorter

- Get more efficiency by your wafer handling and sorting with this system.
- One system for Barcode, OCR and data matrix codes.
- Automatic mode upon loading the cassette including cassette scanning, scribe readings and sorting.
- Detecting cross and double slotted wafer
- Flat or notch alignment +/- 1°
- Edge contact transfer technology
- Powder coated aluminium chassis
- Custom recipes and macros can be stored on system.
- User friendly windows interface
- Low cost of ownership.

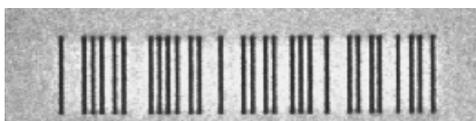


These models are compatible with most standard 4", 5", 6" and 8" plastic wet/dry process cassettes, shipping and storage containers.

Units are not compatible with metal cassettes.

Custom models are available for metal cassettes and non-standard carriers.

### BC 412



### OCR



### 2-D Dot Matrix



**NOTE:** Please specify cassette model numbers when ordering.



TB-Ploner GmbH

# Two Cassette Sorter TCS 6"

## Specification

- Industrial PC
- 12,1" Color-Flatscreen
- Integrated Touchscreen.
- Integrated Keyboard.
- Ethernet connection RJ45-Connector (TCP/IP).
- Open design resulting in minimal laminar flow disturbance.

## Performance

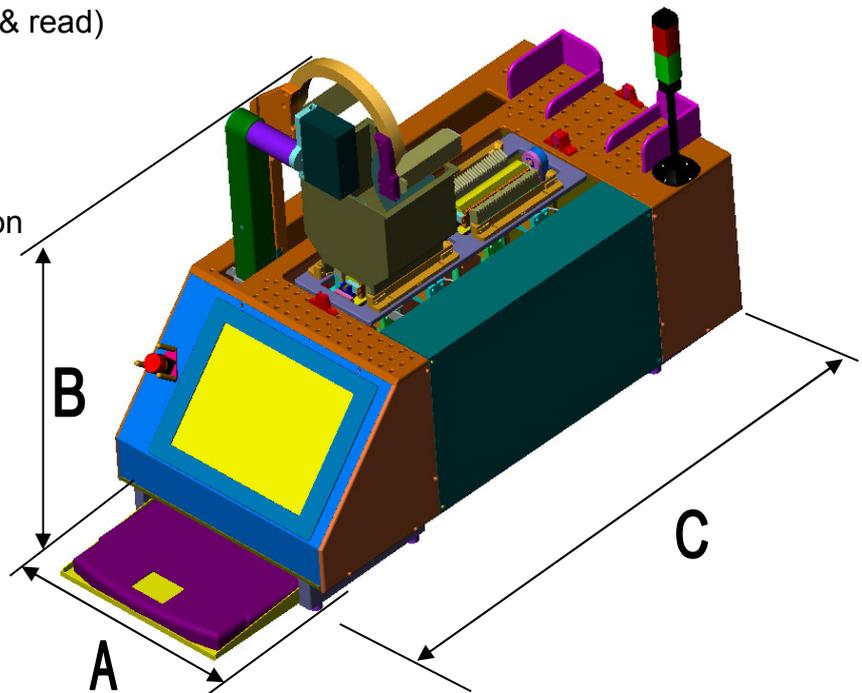
- Time to read 25 wafer  
< 2 min  
( alignment & scann & read)

## Options

- Barcode gun
- Cassette-Identifikation
- Custom modes

## Standard Modes

- Single or Batch transfer
- Split / Merge
- Invert
- Compress to top
- Compress to bottom
- Randomization
- Drag and Drop wafer

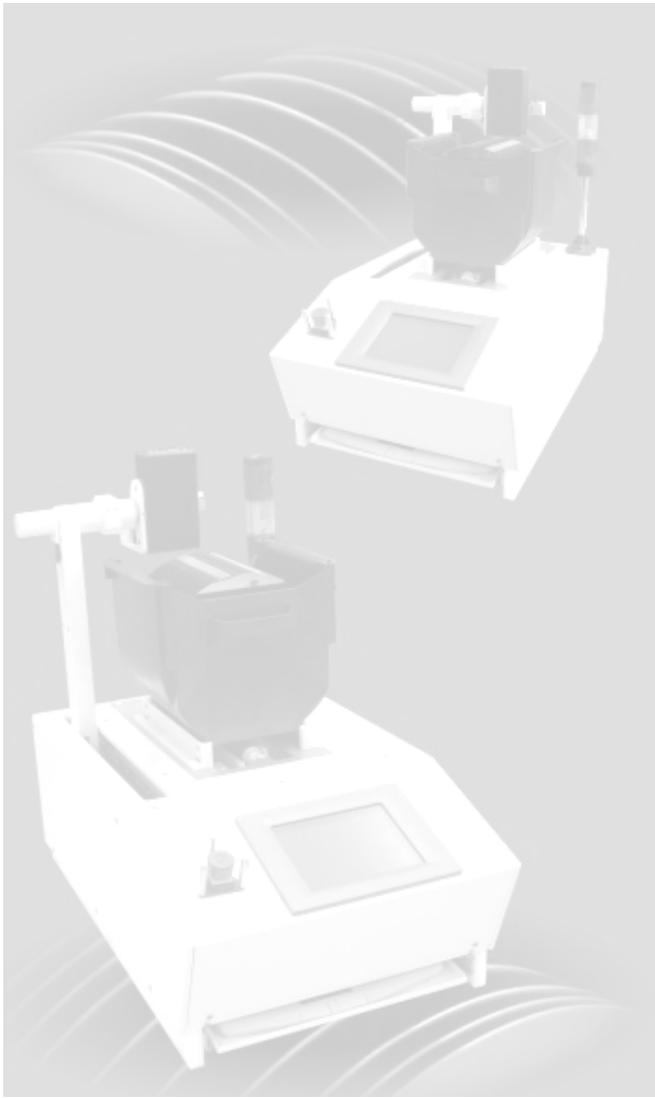


## Facilities requirements:

Overall dimension (mm):

|          | <b>TCS 4"</b> | <b>TCS 5"</b> | <b>TCS 6"</b> |
|----------|---------------|---------------|---------------|
| <b>A</b> | 400           | 400           | 400           |
| <b>B</b> | 620           | 620           | 620           |
| <b>C</b> | 820           | 820           | 820           |

- **Weight: 45 kg**
- **Full range 100-240 VAC , 50-60 Hz**



## **WAFER-MAP-SYSTEM**

WMS - Series  
Vertical

The image shows the exterior of a modern, single-story building with a light-colored facade. A large circular logo is prominently displayed on the wall, featuring the letters 'tbp' in a stylized font over a grid pattern. The building has several windows and is set against a backdrop of a forested hillside under a clear sky.

**tbp**

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# Lot and Wafer Identification-System

## Identification of Lot & Wafer

- Get more efficiency by your wafer monitoring with this system.
- One system for Barcode, OCR and data matrix codes.
- Automatic mode upon loading the cassette including cassette scanning and scribe readings.
- Flat or notch alignment +/- 1°
- Recipes can stored on system and selected through a touchscreen.
- User friendly windows interface

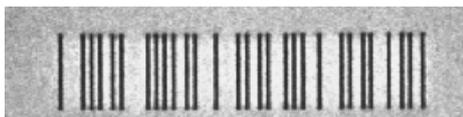


These models are compatible with most standard 4", 5", 6" and 8" plastic wet/dry process cassettes, shipping and storage containers.

Units are not compatible with metal cassettes.

Custom models are available for metal cassettes and non-standard carriers.

### BC 412



### OCR



### 2-D Dot Matrix



**NOTE:** Please specify cassette model numbers when ordering.

# Lot and Wafer Identification-System

## Specification

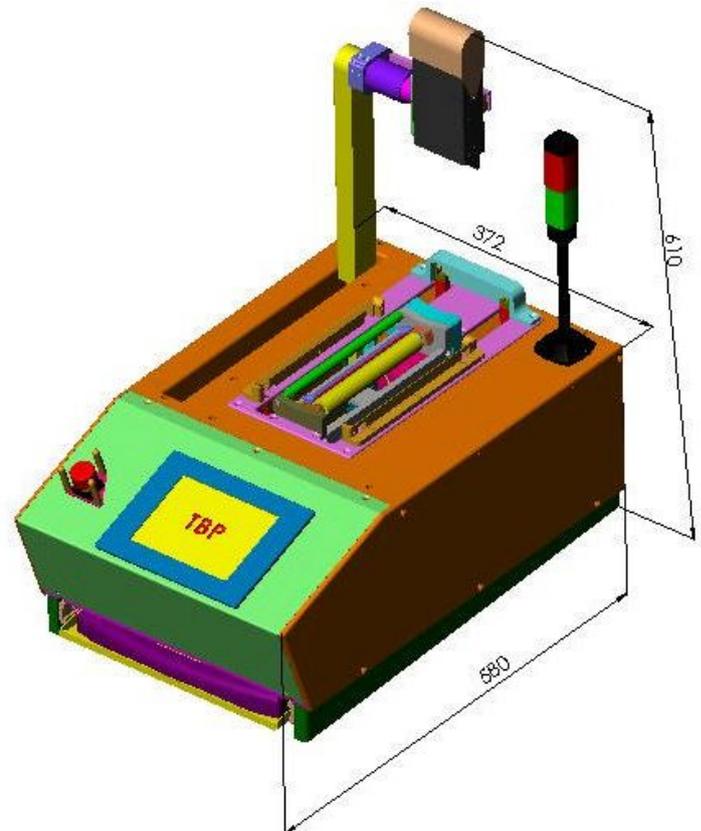
- Industrial PC
- 6,4" Color-Touchpanel
- Integrated Keyboard.
- Ethernet connection RJ45-Connector (TCP/IP).
- Open design resulting in minimal laminar flow disturbance.
- Table Top system.

## Performance

- Time to read 25 wafer  
< 2 min  
( alignment & scann & read )

## Options

- Barcode gun
- Backside-Reading
- Front & Backside Reading
- Cassette-Identifikation
- Custom modes
- SECSII/GEM Interface



## Facilities requirements:

Overall dimension (mm):

- **Weight: 27 kg**
- **Full range 100-240 VAC , 50-60 Hz**



## **SINGLE-WAFER-READER**

SWR - Series  
Vertical



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Technisches Büro Ploner OEG  
Research, Development  
and Production for Semiconductor Equipment

# Single Wafer Identification System

## Low Cost Wafer-Identification System

- Get more efficiency by your wafer monitoring with this system.
- One system for Barcode, OCR and data matrix codes.
- Automatic mode upon loading the cassette including cassette scanning and scribe readings.
- Flat or notch alignment +/- 1°
- Open design resulting in minimal laminar flow disturbance.
- Compact footprint.
- ESD safe by use static dissipative materials.

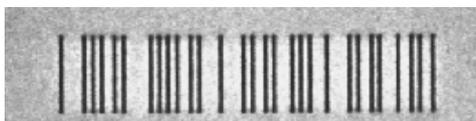


These models are compatible with most standard 4", 5", 6" and 8" plastic wafer process cassettes, shipping and storage containers. Units are not compatible with metal cassettes. Custom models are available for metal cassettes and non-standard carriers.

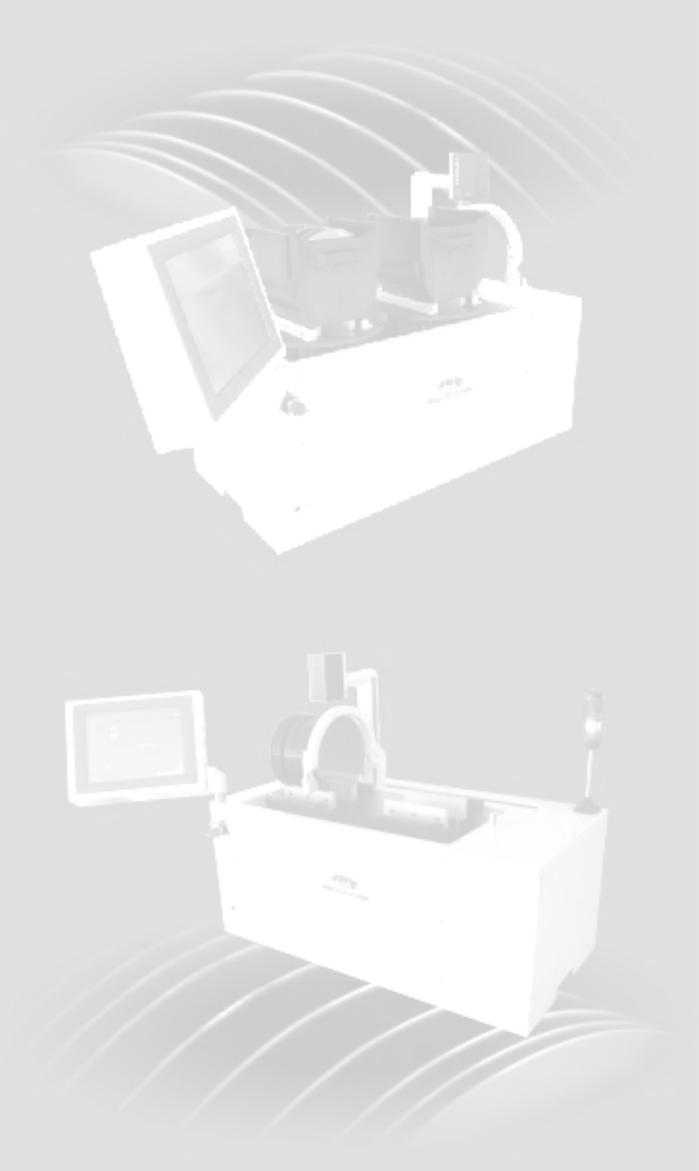
**BC 412**

**OCR**

**2-D Dot Matrix**



**NOTE:** Please specify cassette model numbers when ordering.



**SINGLE / MASS-  
WAFERTRANSFER  
SYSTEM**  
SWTS - Series  
Vertical



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## *Single/Mass-Wafer-Transfer-System* **SWTS-Series**

The system is designed for automatic transfer wafers from a source-cassette to a target cassette.

With this system it is possible to split or merge a wafer-lot or make a individual wafer-mix if no wafer-identification is needed.

The wafers can be moved wafer per wafer or all wafers in one step.



## **SWTS-Series**



## Single/Mass-Wafer-Transfer-System SWTS-Series



- Get more efficiency by your wafer handling and sorting with this system.
- Automatic mode upon loading the cassette including cassette scanning and sorting.
- Detecting cross and double slot wafer
- Edge contact transfer technology
- Powder coated aluminium chassis
- Recipes and macros can stored on system and selected through a touchscreen.
- User friendly windows interface



These models are compatible with most standard 4", 5", 6" and 8" plastic wet/dry process cassettes, shipping and storage containers.

Units are not compatible with metal cassettes.

Custom models are available for metal cassettes and non-standard carriers.

**NOTE:** Please specify cassette model numbers when ordering.



# Single/Mass-Wafer-Transfer-System **SWTS-Series**

## **Specification**

- Industrial PC
- 12,1" Color-Flatscreen
- Integrated Touchscreen.
- Integrated Keyboard.
- Ethernet connection RJ45-Connector (TCP/IP).
- Open design resulting in minimal laminar flow disturbance.

## **Performance**

- Time to transfer 25 wafer < 30 sec  
( alignment & scann & transfer)

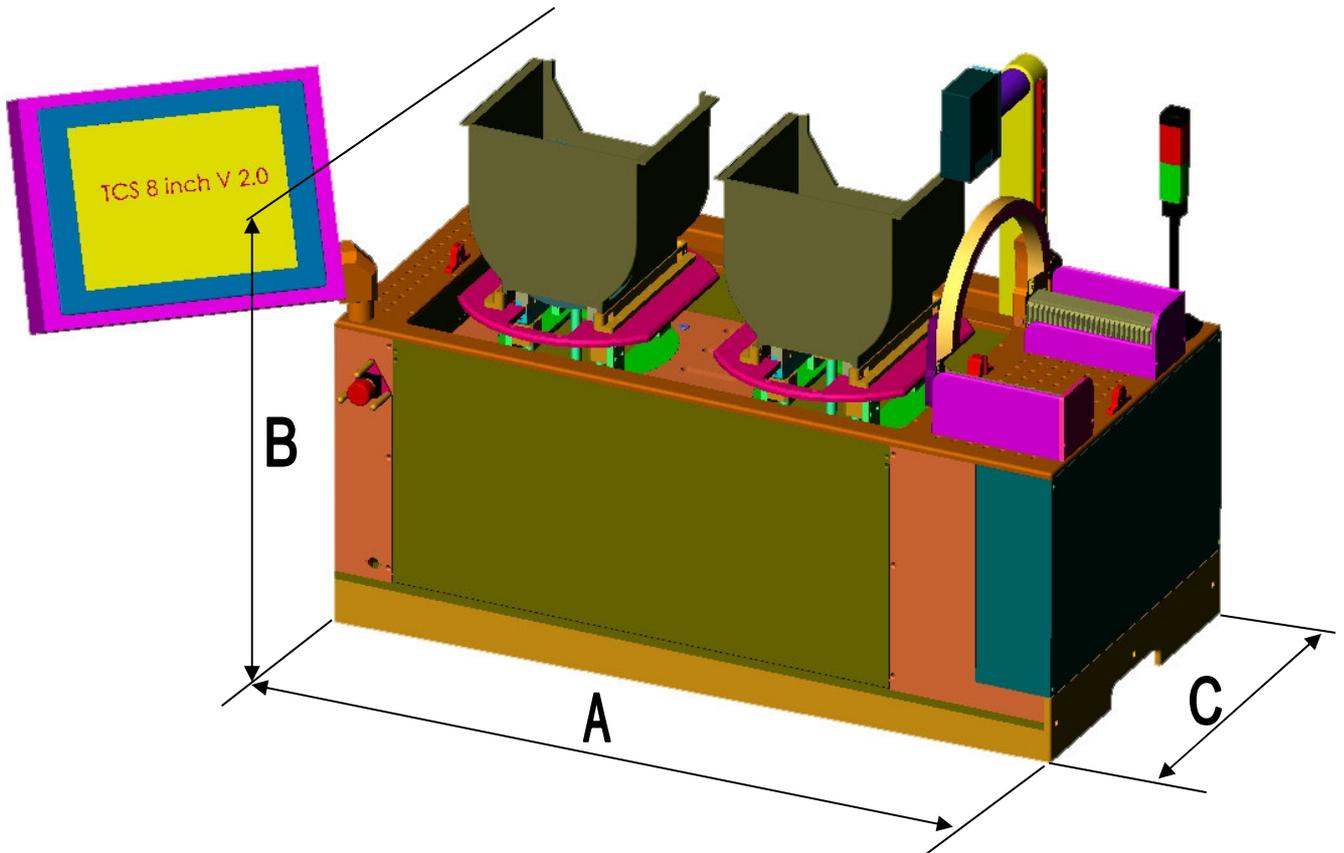
## **Options**

- Barcode gun
- Cassette-Identifikation
- Wafer-Identifikation
- Wafer-Alignement
- SECS/HSMS-Interface
- Custom modes

## **Standard Modes**

- Shift transfer
- Split / Merge
- Invert
- Compress to top
- Compress to bottom
- Drag and Drop wafer

## Dimensions:

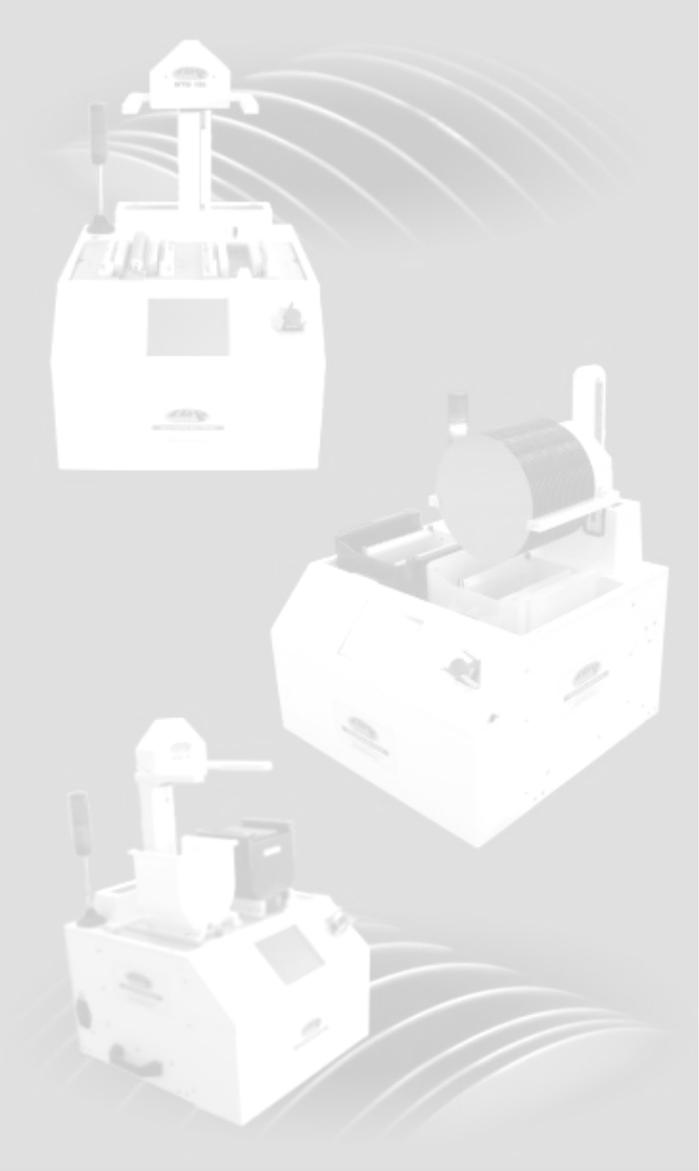


## Facilities requirements:

Overall dimension (mm):

|          | <b>SWTS 8"</b> |
|----------|----------------|
| <b>A</b> | <b>900</b>     |
| <b>B</b> | <b>850</b>     |
| <b>C</b> | <b>440</b>     |

- **Weight: 50 kg**
- **Full range 100-240 VAC , 50-60 Hz**



## **WAFER-TRANSFER-MACHINE**

WTM - Series

Vertical



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TB-Ploner GmbH

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# Wafer Transfer Machine WTM

*This system is designed to transfer a whole wafer batch from a plastic cassette to a other plastic cassette.*

*( e.g. Storage-cassette-->Process-cassette, Storage-cassette-->Teflon-cassette,etc..)*

- Integrated Flat or Notchfinder
- Edge gripping.
- No vacuum needed.
- Integrated microcontroller
- Integrated Touchpanel
- Smooth motions.
- Compact footprint.
- ESD save by use static dissipative materials - POM-C. (wafer-combs & wafer-gripper)



## **Options:**

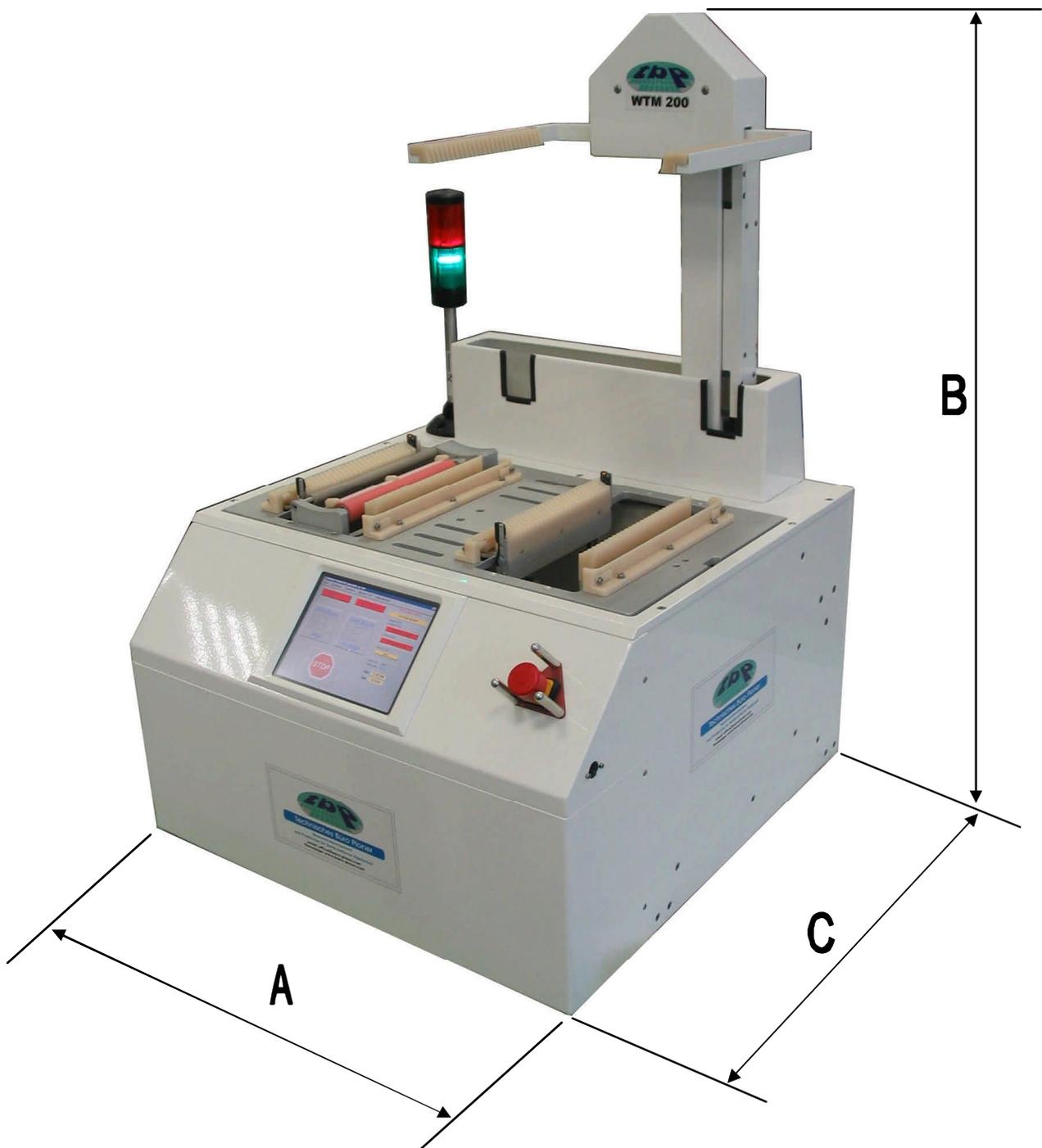
- Wafer-Identification
- Custom Modes

**NOTE:** Please specify cassette model numbers when ordering.



TB-Ploner GmbH

# Wafer Transfer Machine WTM

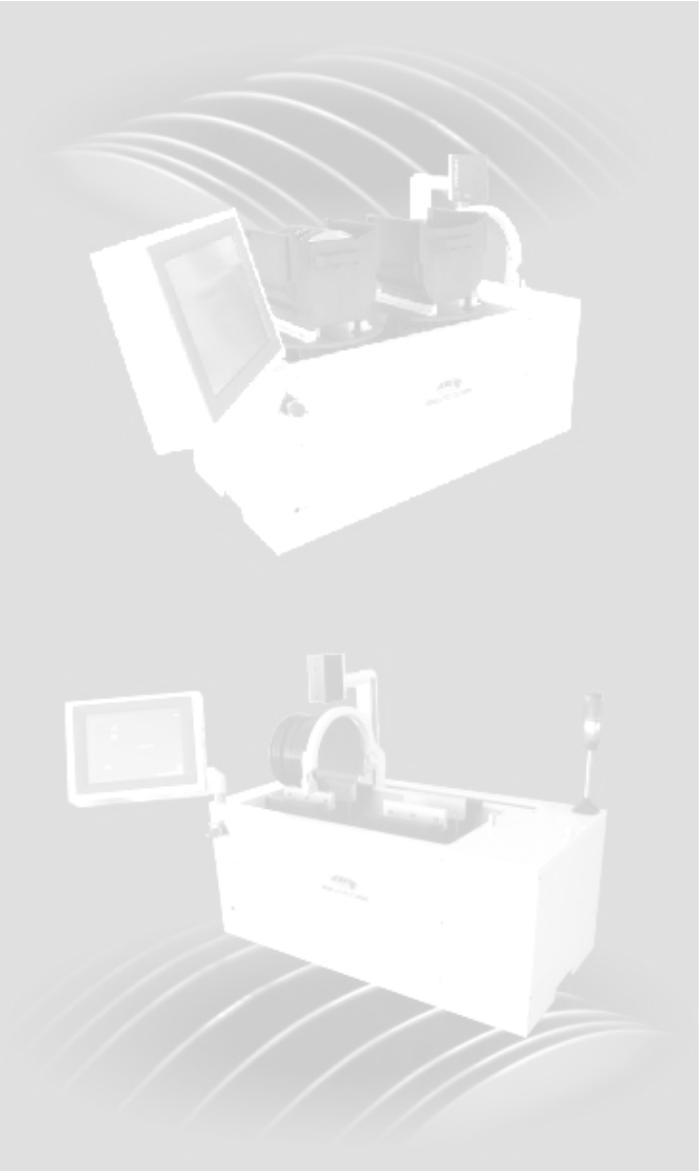


## Facilities requirements:

Overall dimension (mm):

|          | <b>WTM 200</b> |
|----------|----------------|
| <b>A</b> | <b>510</b>     |
| <b>B</b> | <b>770</b>     |
| <b>C</b> | <b>505</b>     |

- **Weight: 35 kg**
- **Full range 100-240 VAC , 50-60 Hz**



## **QUARZ-BOAT-LOADER**

QBL - Series

Vertical



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web: www.buero-ploner.com



# Quarz-Boat-Loader QBL

*This system is designed to transfer a whole wafer batch from a plastic cassette to a quartz-boat.*

- Integrated Flat or Notchfinder
- Edge gripping.
- No vacuum needed.
- Integrated microcontroller
- Integrated Touchpanel
- Smooth motions.
- Compact footprint.
- ESD save by use static dissipative materials - POM-C. (wafer-combs & wafer-gripper)



## **Options:**

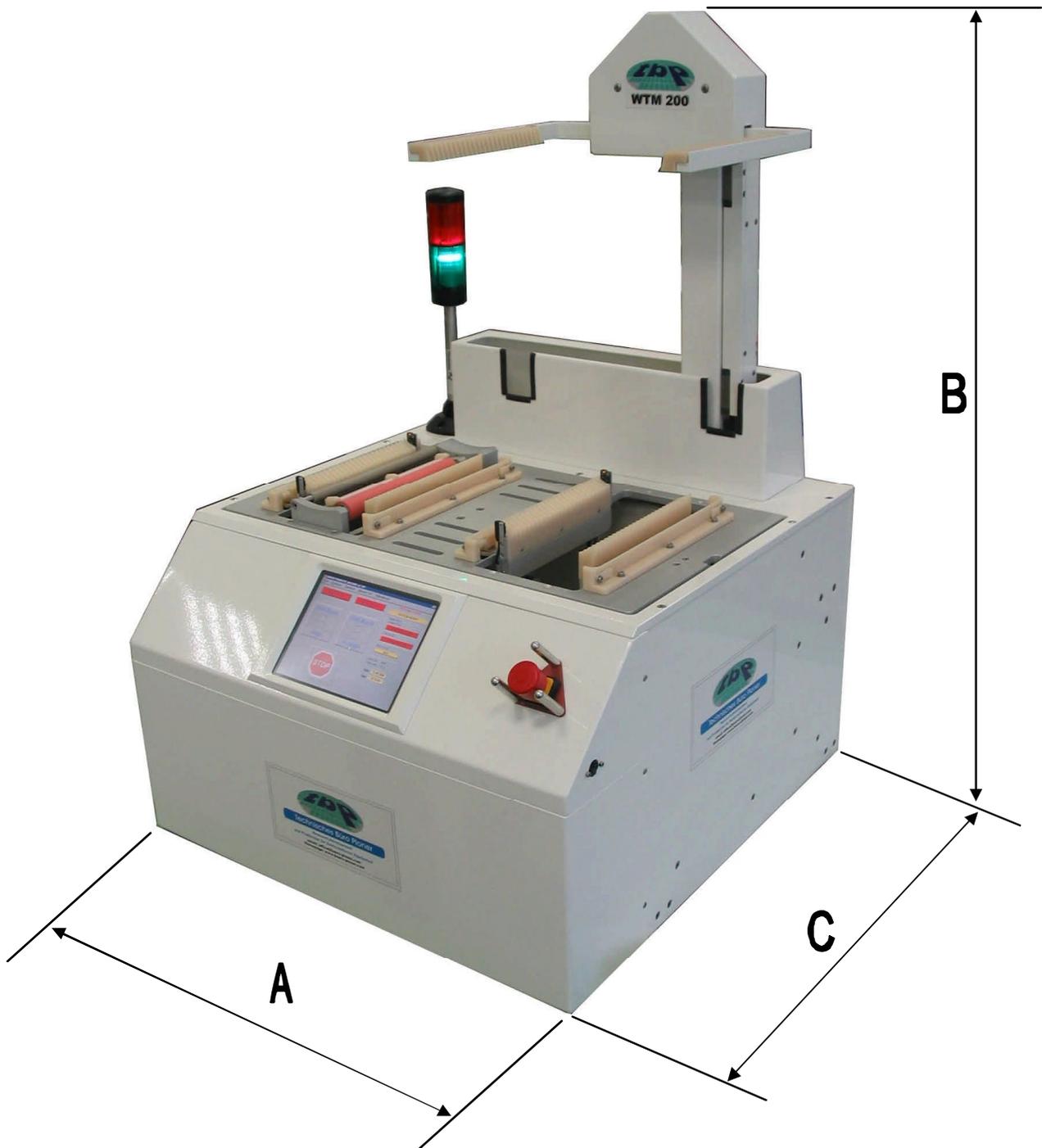
- Wafer-Identification
- Custom Modes

**NOTE:** Please specify cassette model numbers when ordering.



TB-Ploner GmbH

# Quarz-Boat-Loader QBL

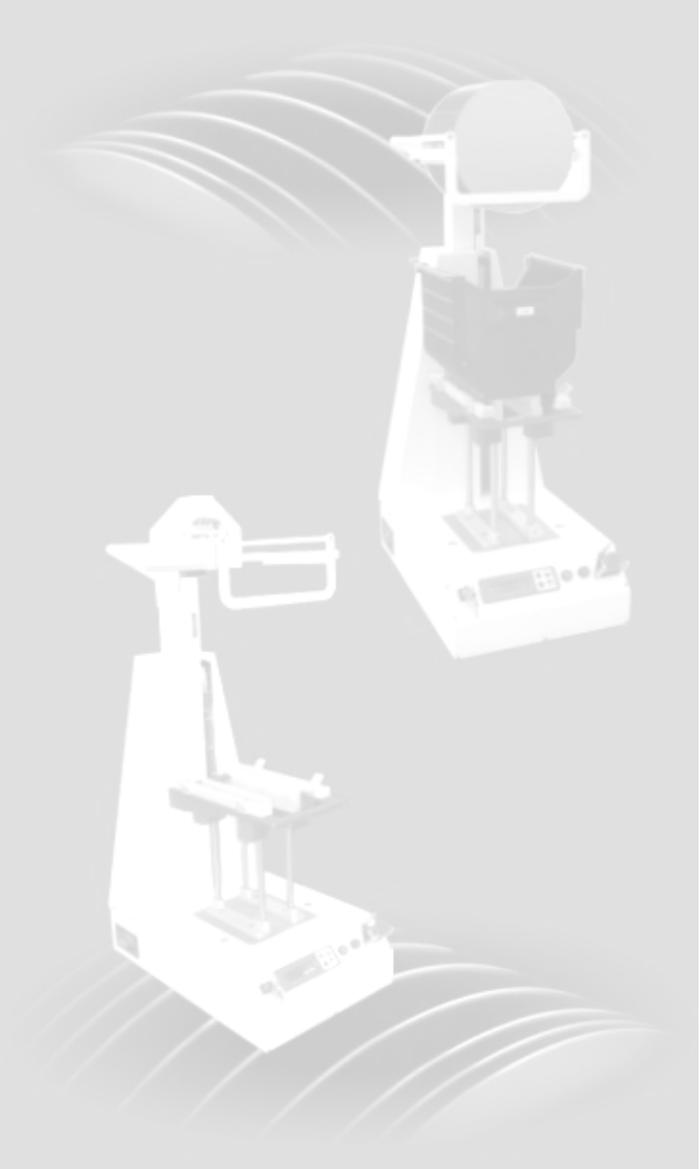


## Facilities requirements:

Overall dimension (mm):

|          | <b>QBL 200</b> |
|----------|----------------|
| <b>A</b> | <b>510</b>     |
| <b>B</b> | <b>770</b>     |
| <b>C</b> | <b>505</b>     |

- **Weight: 35 kg**
- **Electrical: 100-240 VAC ,2 A, 50-60 Hz**



## **SINGLE-STATION-WAFER TRANSFER-MACHINE**

SWTM - Series  
Vertical



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# Single Station Wafer Transfer Machine

## **Vacuumfree Waferhandling Tool**

- Get more efficiency by your wafer handling with this system.
- Reduced Particle addition by handling the wafers vertically.
- Smooth motion
- Only edge contact to the wafers.
- No change of hardware necessary to transfer wafers from high profile to low profile cassettes.  
(high→low, low→high, low→low, high→high)
- Open design resulting in minimal laminar flow disturbance.
- Compact footprint.
- ESD save by use static dissipative materials.

These models are compatible with most standard 4", 5", 6" and 8" plastic wet/dry process cassettes, shipping and storage containers.

Units are not compatible with metal cassettes.

Custom models are available for metal cassettes and non-standard carriers.



**NOTE:** Please specify cassette model numbers when ordering.



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# Single Station Wafer Transfer Machine

## Specification

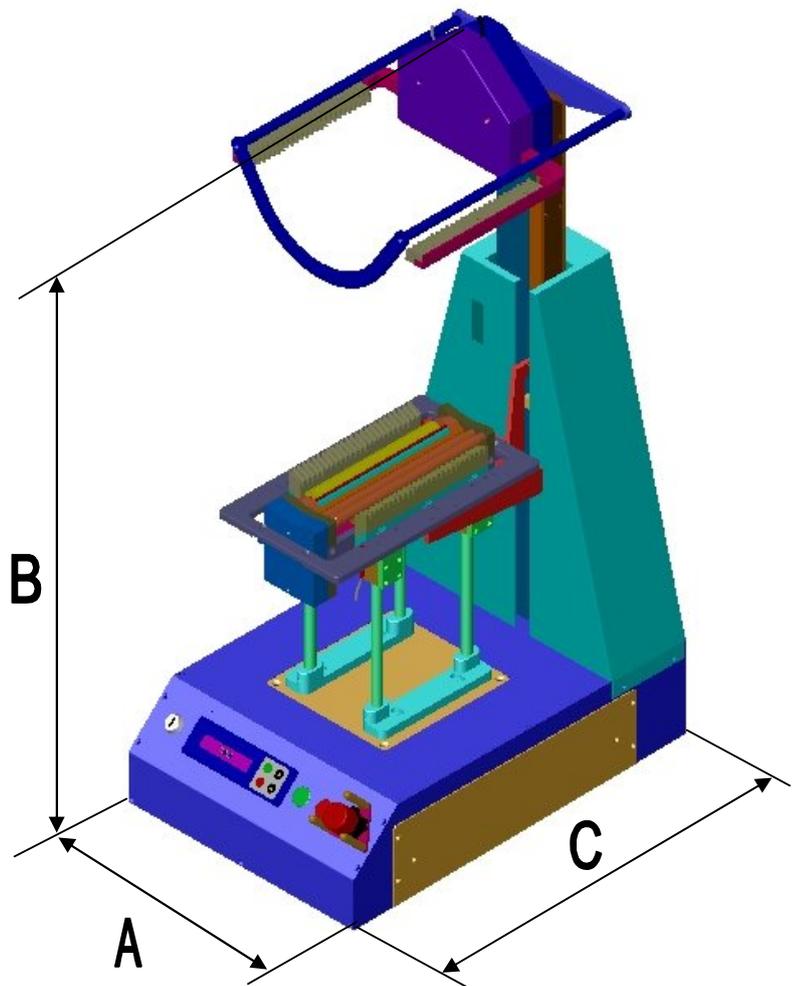
- Controlled by Microcontroller
- 16x2 digit LCD Display
- RS232 port

## Performance

- Cycle Time to transfer 25 wafer from cassette to cassette = 12 sec

## Options

- Wafer-Identification
- Wafer-Aligner
- Custom modes

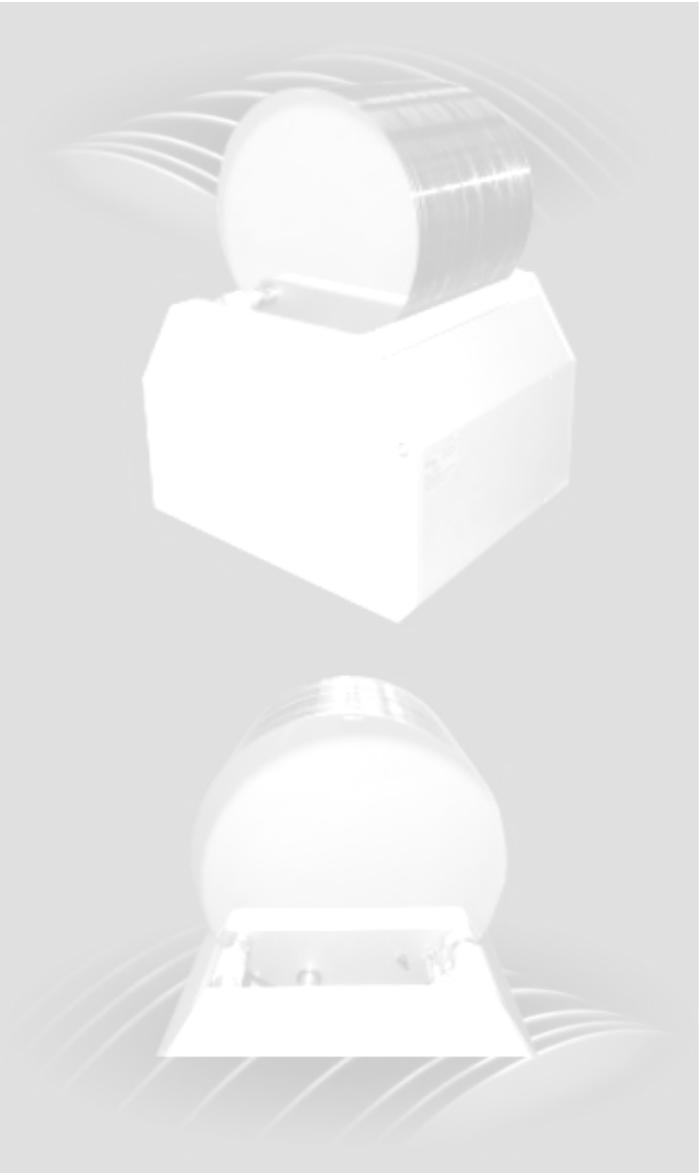


## Facilities requirements:

Overall dimension (mm):

|          | <b>SWTM 100</b> | <b>SWTM 125</b> | <b>SWTM 150</b> | <b>SWTM 200</b> |
|----------|-----------------|-----------------|-----------------|-----------------|
| <b>A</b> | <b>300</b>      | <b>300</b>      | <b>300</b>      | <b>300</b>      |
| <b>B</b> | <b>830</b>      | <b>830</b>      | <b>830</b>      | <b>900</b>      |
| <b>C</b> | <b>450</b>      | <b>450</b>      | <b>450</b>      | <b>450</b>      |

- **Weight: 12 kg**
- **Full range 100-240 VAC , 50-60 Hz**



## **NOTCH-FINDER-300mm**

NF300 - Series  
Batch-Alignment



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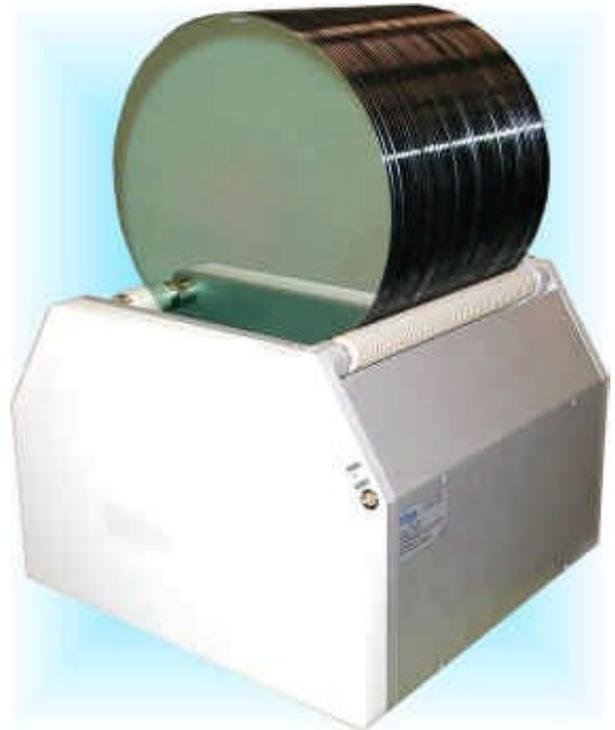
# *Notchfinder 300mm*

## *Model: NF300*

The NF300 is designed for OEM-Applications like wetetchbench,stockersystems etc. To align the wafers, no cassettes are needed, because the wafers stands in specially rollers with minimal edge-contact to the wafers.

### *Specification*

- *integrated  $\mu$ Controller*
- *Communication over RS232*
- *Precise alignment  $<0.5^\circ$*
- *small footprint*
- *time to change whole rollers in the system  $<1\text{min}$   
(e.g. to eliminate contamination from an other process)*
- *Open design resulting in minimal laminar flow disturbance*



### *Performances:*

- *align 52 wafers and rotate they to  $180^\circ$  in 15 sec.*

### *Available Modes:*

- *Maintenance / diagnostic*
- *Custom modes available upon request.*

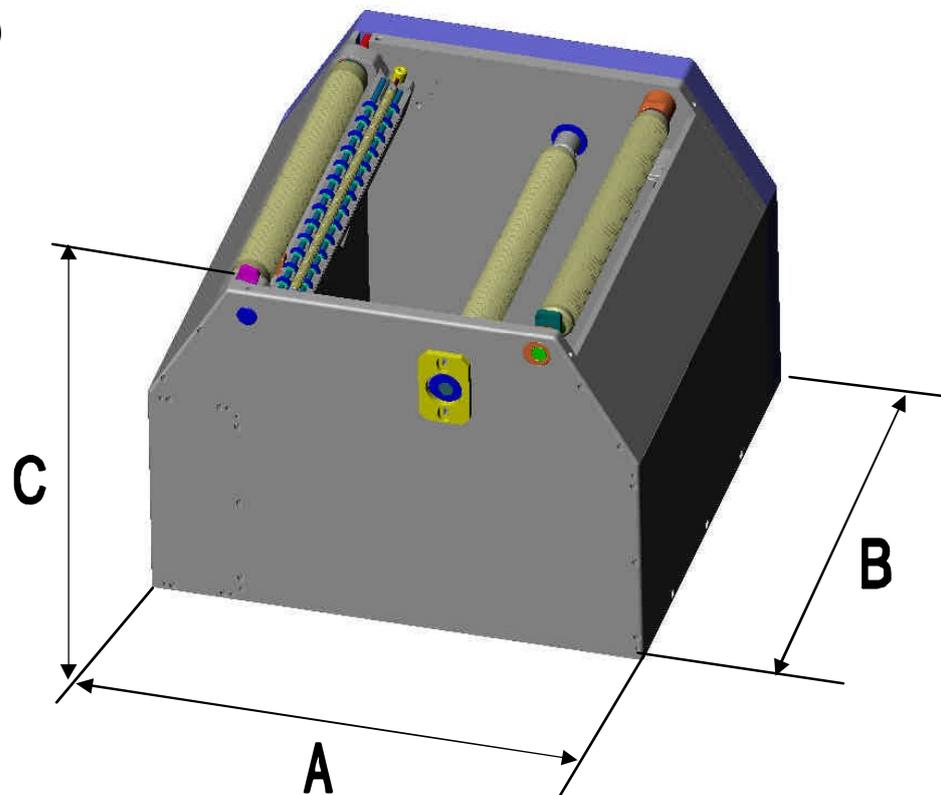


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# Notchfinder 300mm Model: NF300

## Options:

- **integrated Waferreader**  
(OCR,Barcode and 2D-Data Matrix)
- **integrated Sensor**  
(Wafer presence/absence)
- **different pitches**  
(5mm,10mm,12mm)

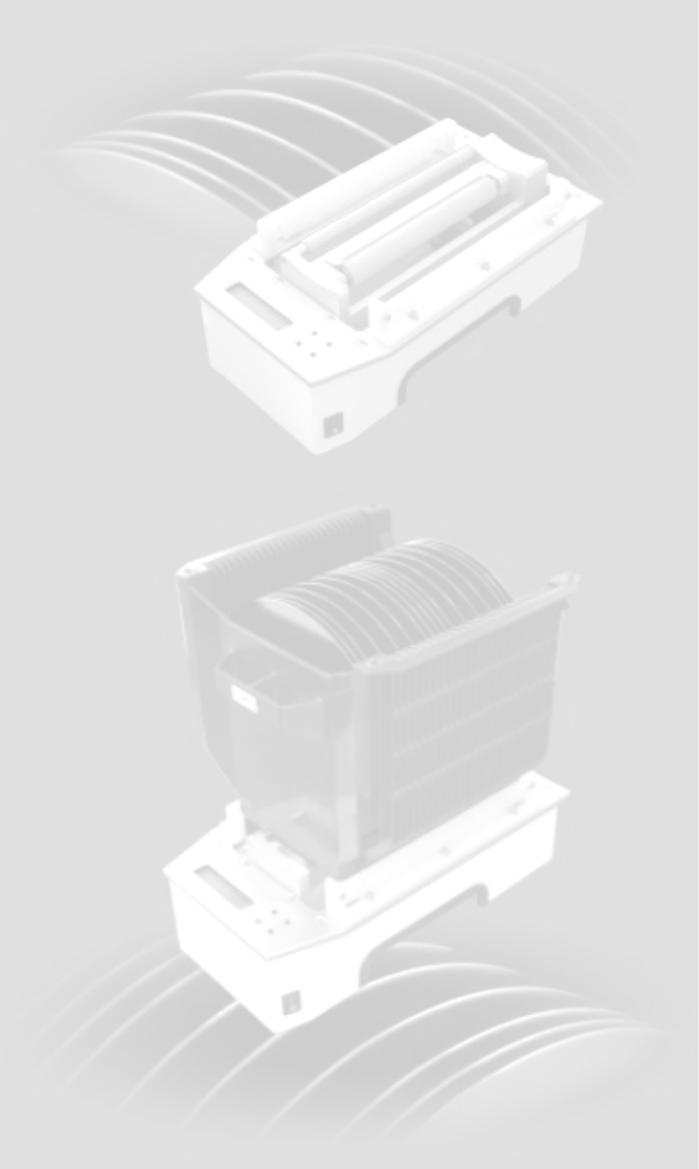


## Facilities requirements:

Overall dimension (mm):

|          | <b>NF300</b> |
|----------|--------------|
| <b>A</b> | <b>390</b>   |
| <b>B</b> | <b>355</b>   |
| <b>C</b> | <b>285</b>   |

- **Weight: 15 kg**
- **24 VDC 2 A**



***NOTCH-FINDER-200mm***  
NF200 - Series  
Automatic-Wafer-Batch-Alignment



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# Notchfinder 8" ESD SAFE

## **AUTOMATIC ESD SAVE NOTCH FINDER**

This fully automatic microprocessor controlled notchfinder provides for wafer notch finding with minimal operator involvement.

To align wafer notches the operator places the carrier on the unit and pushes the "START" Button. All wafer notches are automatically aligned to the bottom, then relocated to one of 8 fixed positions or one individual position.

Accuracy is better than plus or minus one degree.

No manual operation or override is available.

All rotation is controlled at a constant speed for minimal particle generation.

Final wafer notch location is controlled by the Buttons "UP" and "DOWN".

The operator can select 8 standard adjustment points

( 0,45,90,135,180,225,270 and 315 degrees.)

or one individual adjustment point, which can be taught in 1 degree steps.

This tool also can be used for optical inspection, by selecting the Inspection-Mode.

The wafer is rotated for two cycles or the operator can stop the rotation by pressing the "CANCEL" Button.



These models are compatible with most standard 8" plastic wet/dry process cassettes, shipping and storage containers. Units are not compatible with metal cassettes. Custom models are available for metal cassettes and non-standard carriers.

**NOTE:** Please specify cassette model numbers when ordering.

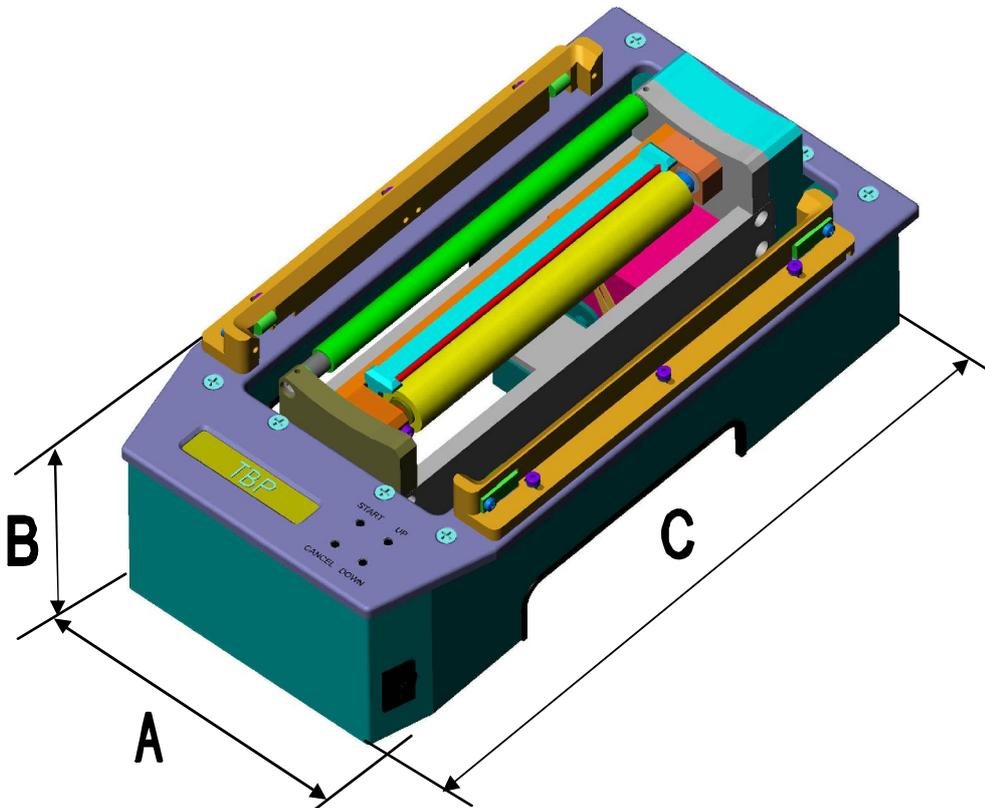


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# Notchfinder 8" ESD SAFE

## Specification

- Swivel and rotation motors are stepper motors.
- Operation is controlled by a microprocessor and programmable EEPROM.
- Parameters (e.g. rollerspeed, liftposition) can be changed with the integrated LC-Display.
- Surge protection is internally provided.
- External power supply full range 85 VAC to 240 VAC 40Hz-60Hz.
- The chassis has built in tilt to maintain wafer separation.
- The roller is made of precision-ground, conductive polyurethane over aluminum.
- Open design resulting in minimal laminar flow disturbance



### Facilities requirements:

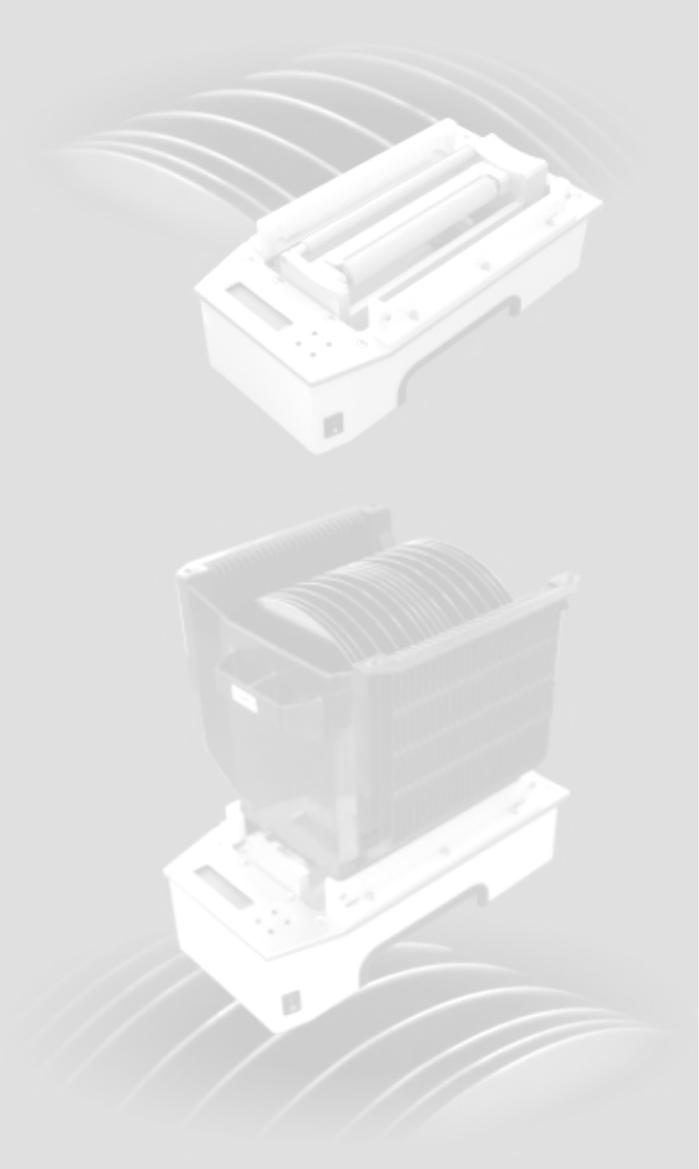
Overall dimension (mm):

|          | <b>NF200</b> |
|----------|--------------|
| <b>A</b> | <b>167</b>   |
| <b>B</b> | <b>110</b>   |
| <b>C</b> | <b>315</b>   |

- **Weight: 1.2 kg**

### Replacement Parts:

| <b>Part</b>  | <b>Description</b>           |
|--------------|------------------------------|
| <b>RMN01</b> | <b>Roller Motor Assembly</b> |
| <b>LMN01</b> | <b>Lift Motor Assembly</b>   |
| <b>PRN01</b> | <b>Polyurethane Roller</b>   |
| <b>EPN01</b> | <b>Electronic Board</b>      |
| <b>PSN01</b> | <b>Powersupply</b>           |



## **FLAT-FINDER-125/150mm**

FF125/FF150

Automatic-Wafer-Batch-Alignment



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# Flatfinder 5" and 6" ESD SAFE

## **AUTOMATIC ESD SAVE NOTCH FINDER**

This fully automatic microprocessor controlled flatfinder provides for wafer flat finding with minimal operator involvement. To align wafer the operator places the carrier on the unit and pushes the "START" Button. All wafer flats are automatically aligned to the bottom, then relocated to one of 8 fixed positions or one individual position. Accuracy is better than plus or minus one degree. No manual operation or override is available. All rotation is controlled at a constant speed for minimal particle generation. Final wafer notch location is controlled by the Buttons "UP" and "DOWN". The operator can select 8 standard adjustment points ( 0,45,90,135,180,225,270 and 315 degrees.) or one individual adjustment point, which can be taught in 1 degree steps. This tool also can be used for optical inspection, by selecting the Inspection-Mode. The wafer is rotated for two cycles or the operator can stop the rotation by pressing the "CANCEL" Button.



These models are compatible with most standard plastic wet/dry process cassettes, shipping and storage containers. Units are not compatible with metal cassettes. Custom models are available for metal cassettes and non-standard carriers.

**NOTE:** Please specify cassette model numbers when ordering.

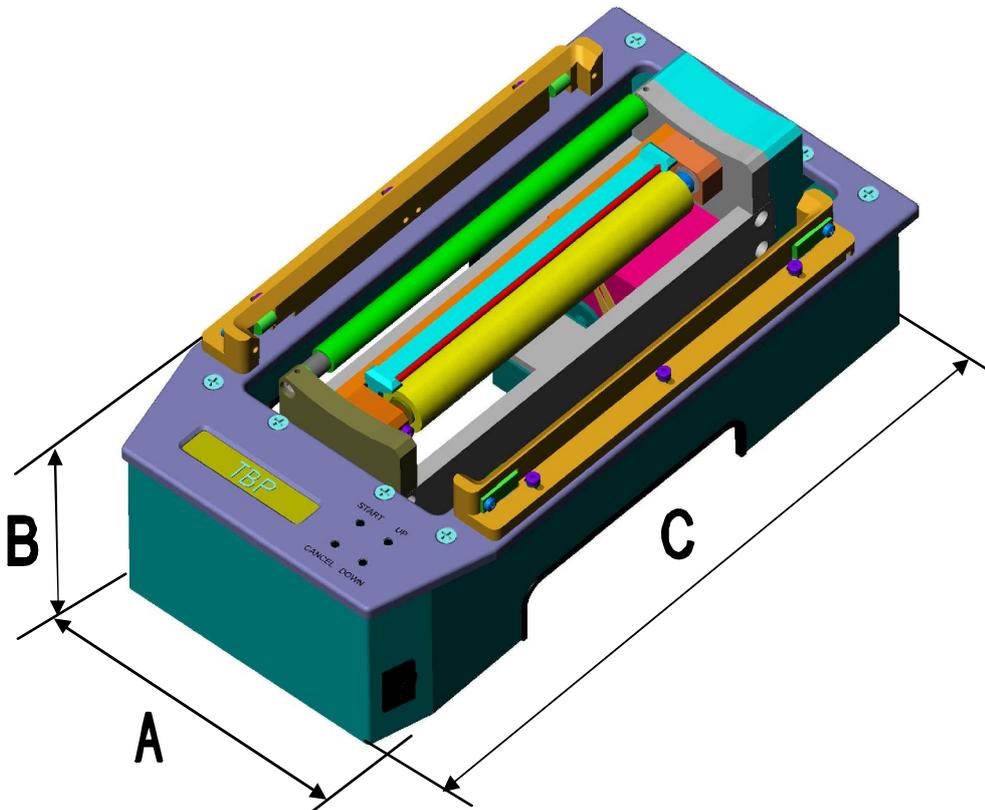


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# Flatfinder 5" and 6" ESD SAFE

## Specification

- Swivel and rotation motors are stepper motors.
- Operation is controlled by a microprocessor and programmable EEPROM.
- Parameters (e.g. rollerspeed, liftposition) can be changed with the integrated LC-Display.
- Surge protection is internally provided.
- External power supply full range 85 VAC to 240 VAC 40Hz-60Hz.
- The chassis has built in tilt to maintain wafer separation.
- The roller is made of precision-ground, conductive polyurethane over aluminum.
- Open design resulting in minimal laminar flow disturbance



### Facilities requirements:

Overall dimension (mm):

|          | <b>FFXXX</b> |
|----------|--------------|
| <b>A</b> | <b>150</b>   |
| <b>B</b> | <b>120</b>   |
| <b>C</b> | <b>320</b>   |

- **Weight: 1.5 kg**

### Replacement Parts:

| <b>Part</b> | <b>Description</b>           |
|-------------|------------------------------|
| <b>RM01</b> | <b>Roller Motor Assembly</b> |
| <b>LM01</b> | <b>Lift Motor Assembly</b>   |
| <b>PR01</b> | <b>Polyurethane Roller</b>   |
| <b>EP01</b> | <b>Electronic Board</b>      |
| <b>PS01</b> | <b>Powersupply</b>           |