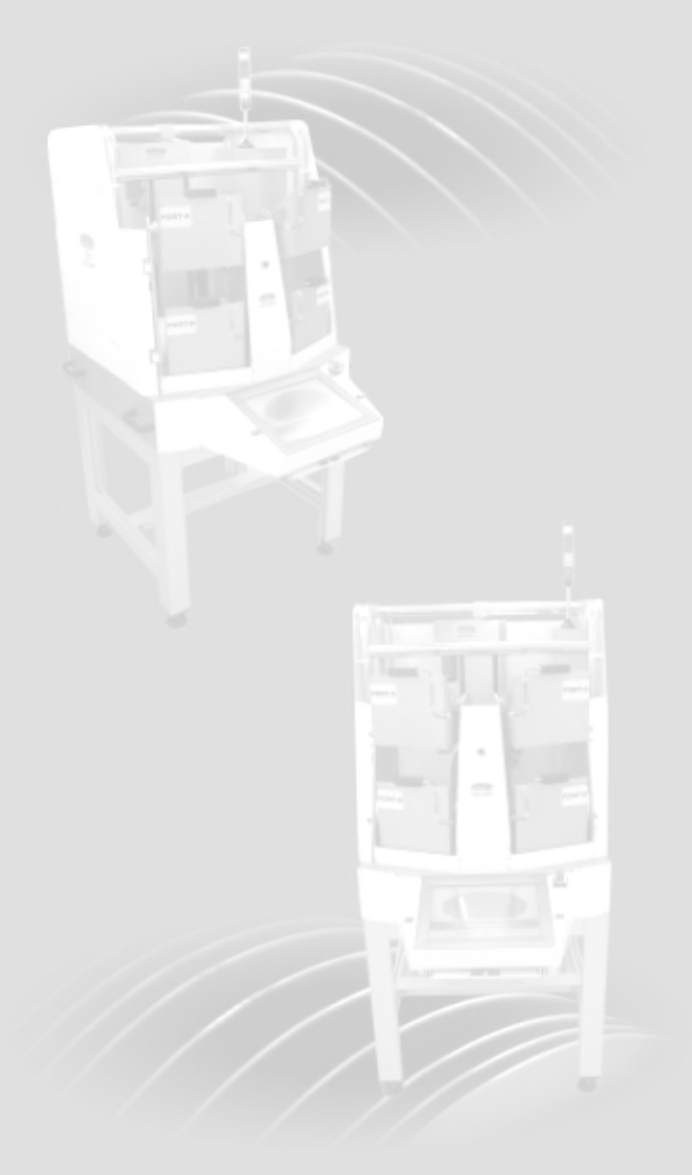




Products TB-Ploner GmbH

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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 $\pm 0.5^\circ$
- 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.



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

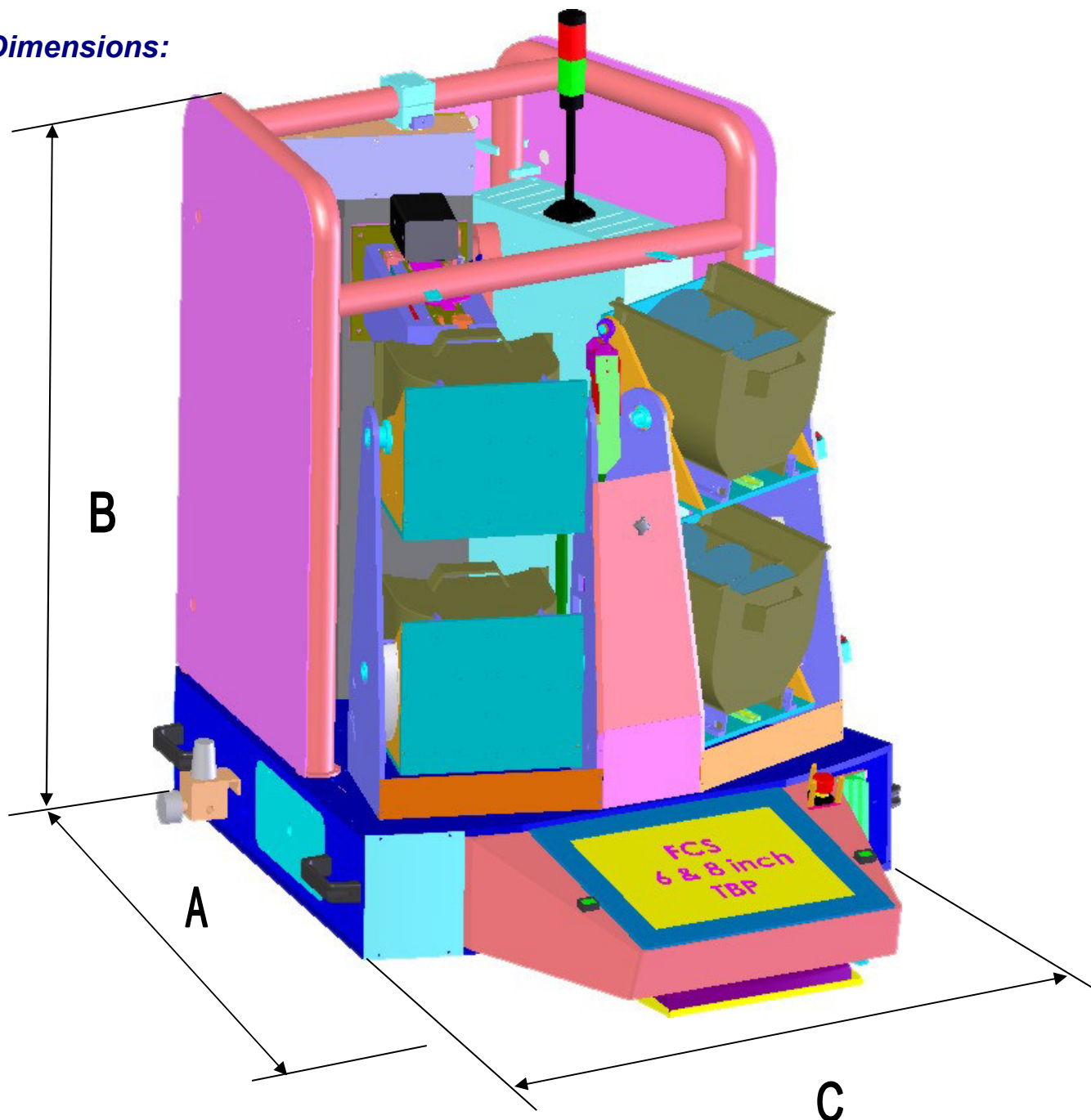
- Barcode gun
- Automatic Cassette-Identification (Barcode-label required on cassettes)
- RFID-Cassette-Identification
- Wafer-Flipping
- Thinwaferhandling
- SECS/HSMS-Interface
- Custom modes

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

Compact Universal Sorter FCS Series

Dimensions:



Facilities requirements:

Overall dimension (mm):

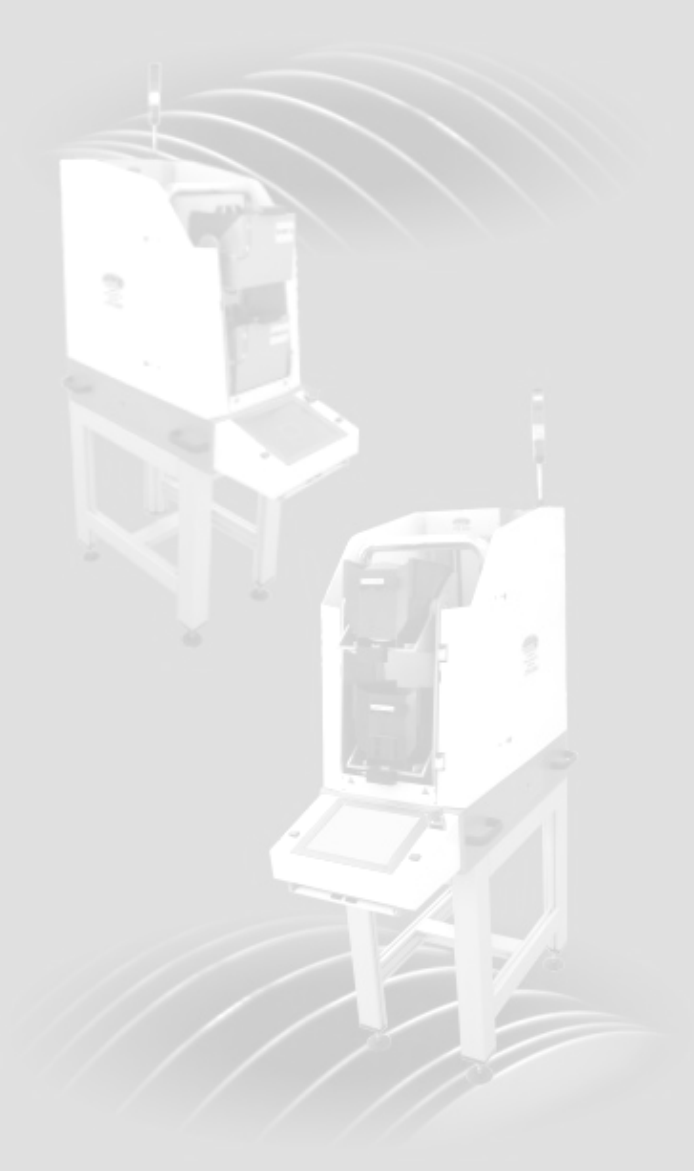
	FCS
A	1100
B	1100
C	800

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



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 $\pm 0.5^\circ$
- 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.





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

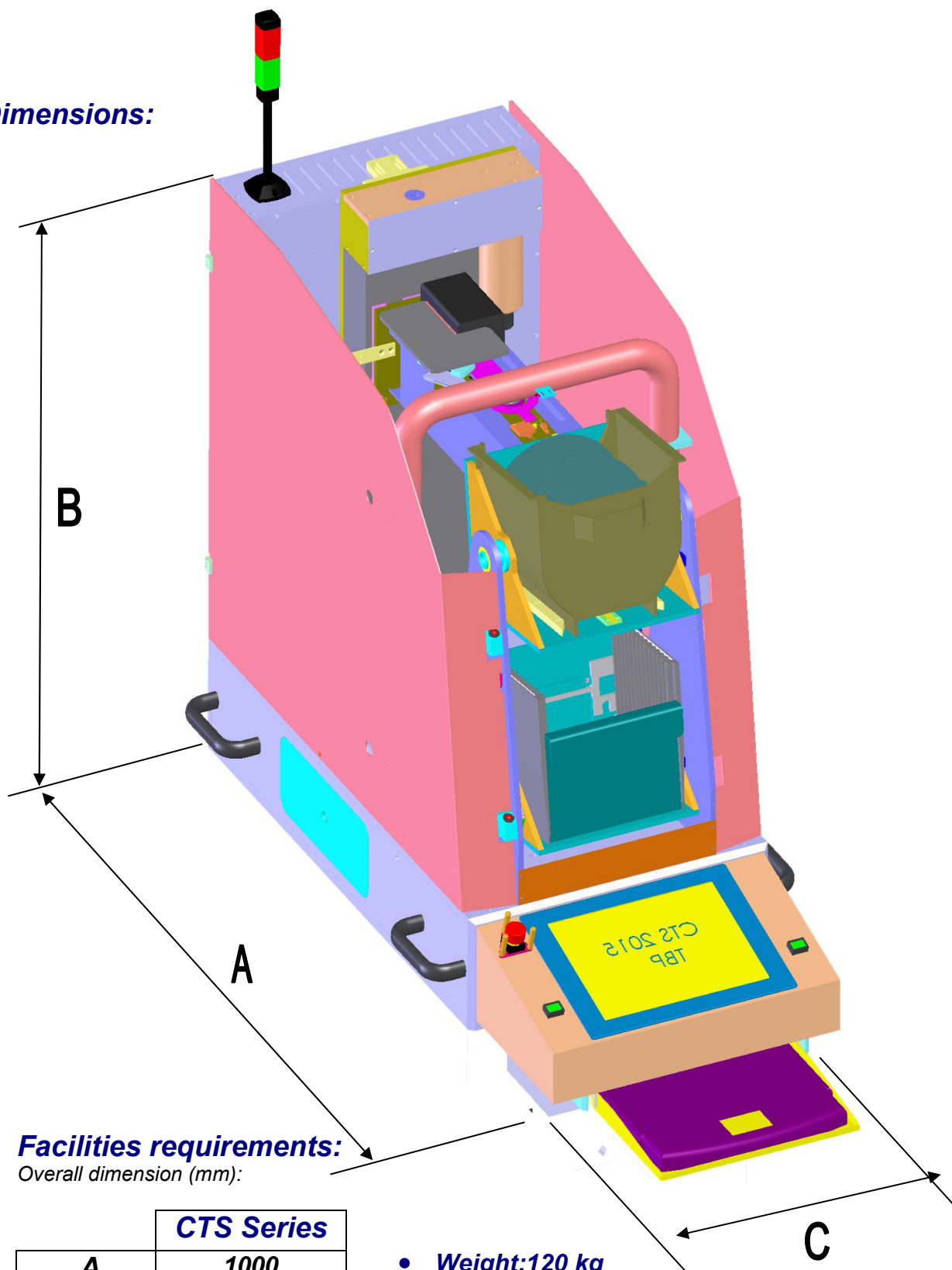
- Shift transfer
- Split / Merge
- Invert
- Compress to top (by ID or Slot)
- Compress to bottom (by ID or Slot)
- Drag and Drop wafer
- Numeric Sort
- Randomized Sort



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 5 liter/min



Compact Two-Cassette Sorter CTS Series

Availability:

Tool availability > 97%

MTBF > 4000 h

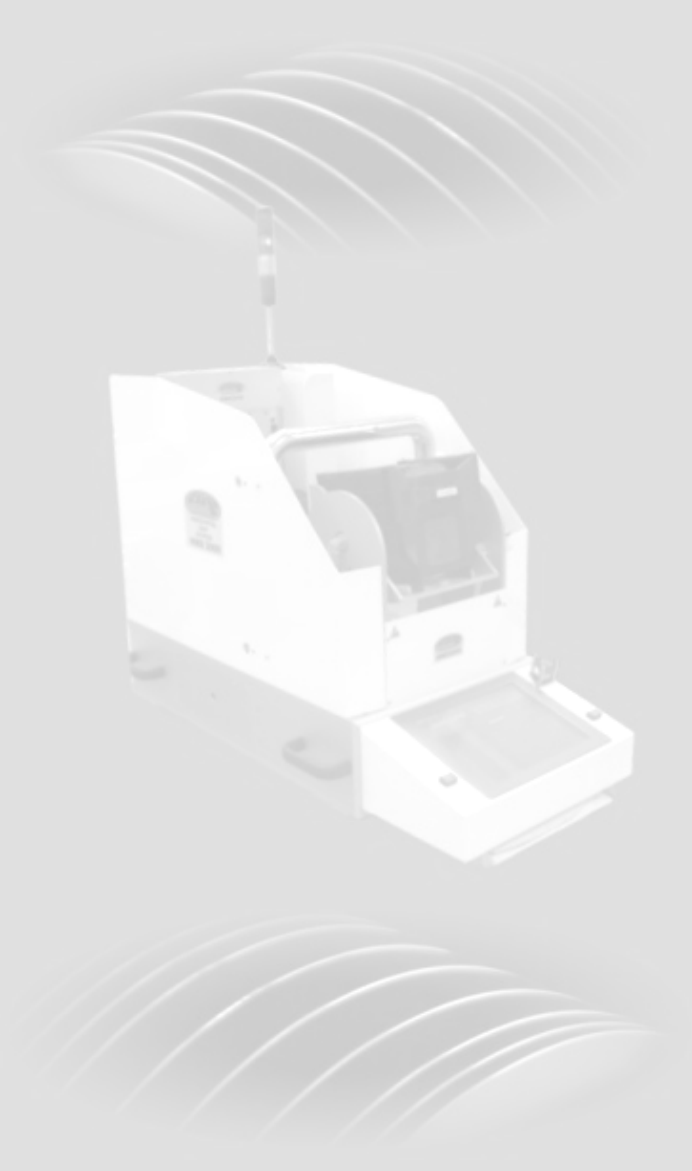
MTTR < 4 h

MTBA > 200 h

Clean concept:

Class 10





HORIZONTAL-MAP-SYSTEM

HMS-Series



TB-Ploner GmbH
A.G.3
A-9873 Döbriach

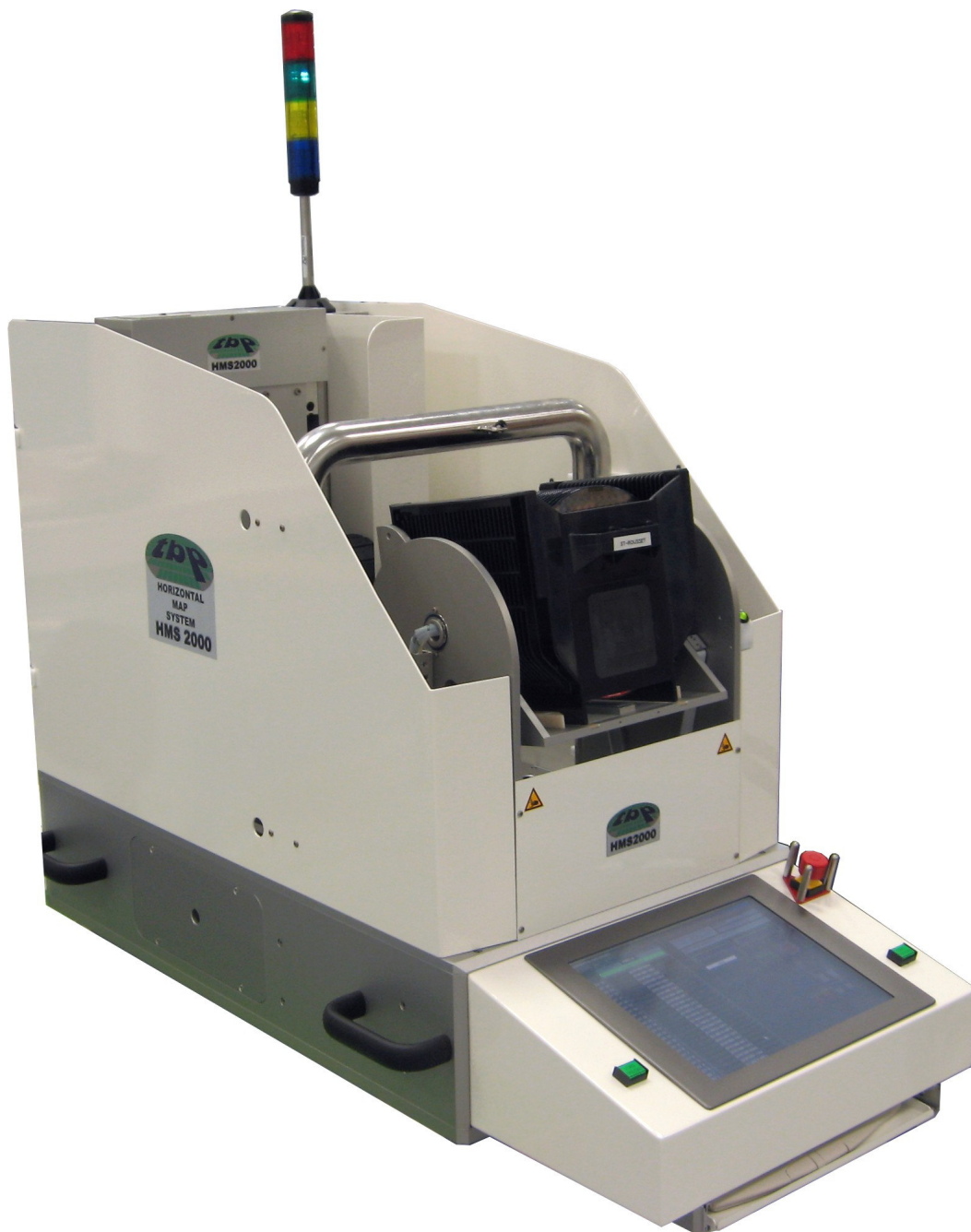
phone: +43 424629375
email: office@buero-ploner.com
web: www.buero-ploner.com



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 $\pm 0.5^\circ$
- 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

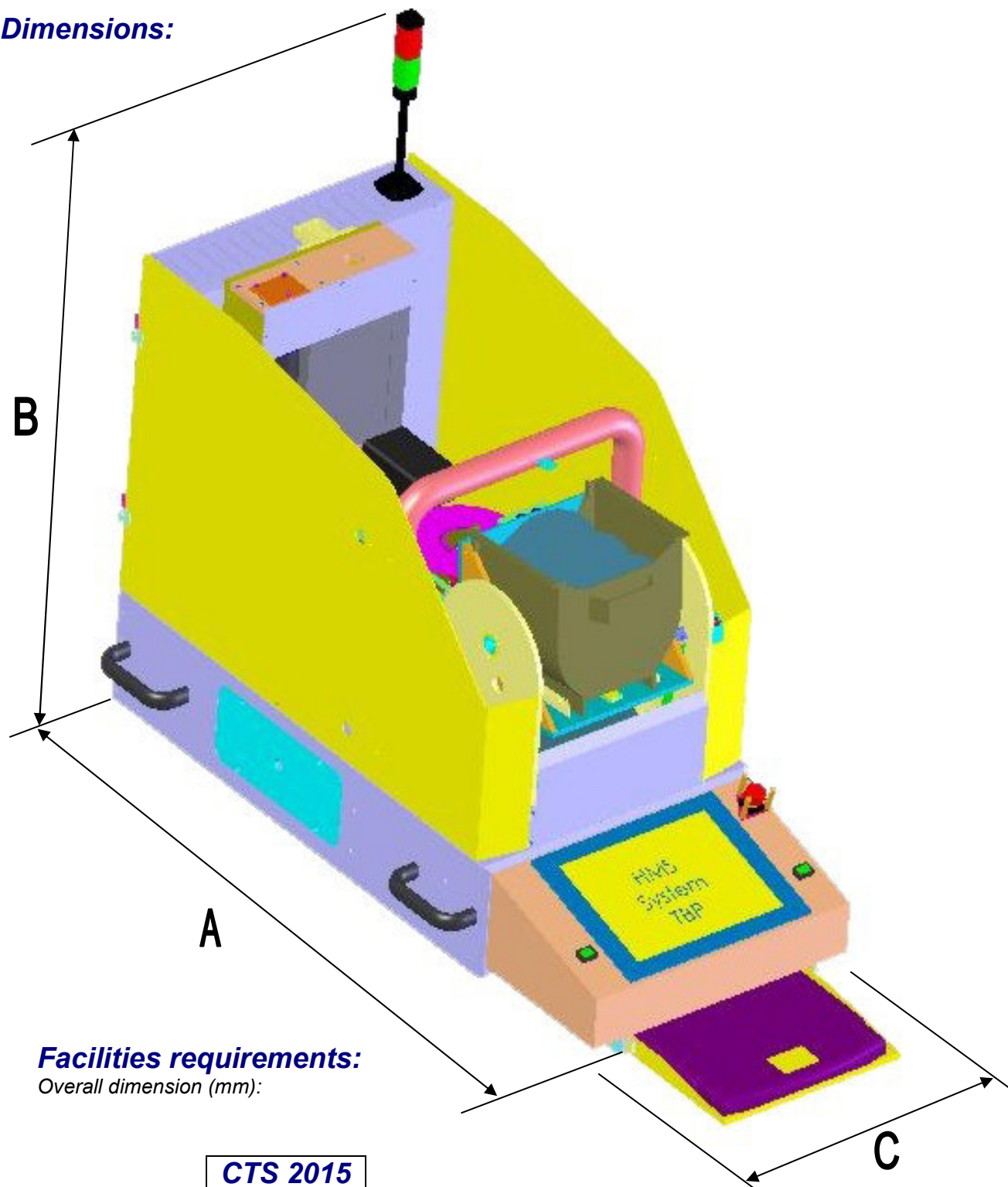
- Throughput > 600 wph
- MTBF > 5000 hrs
- MTTR < 4 hrs
- MTBA > 1000 hrs
- Wafer breakage 1/100 000

Options

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

Horizontal-Map-System HMS-Series

Dimensions:



Facilities requirements:

Overall dimension (mm):

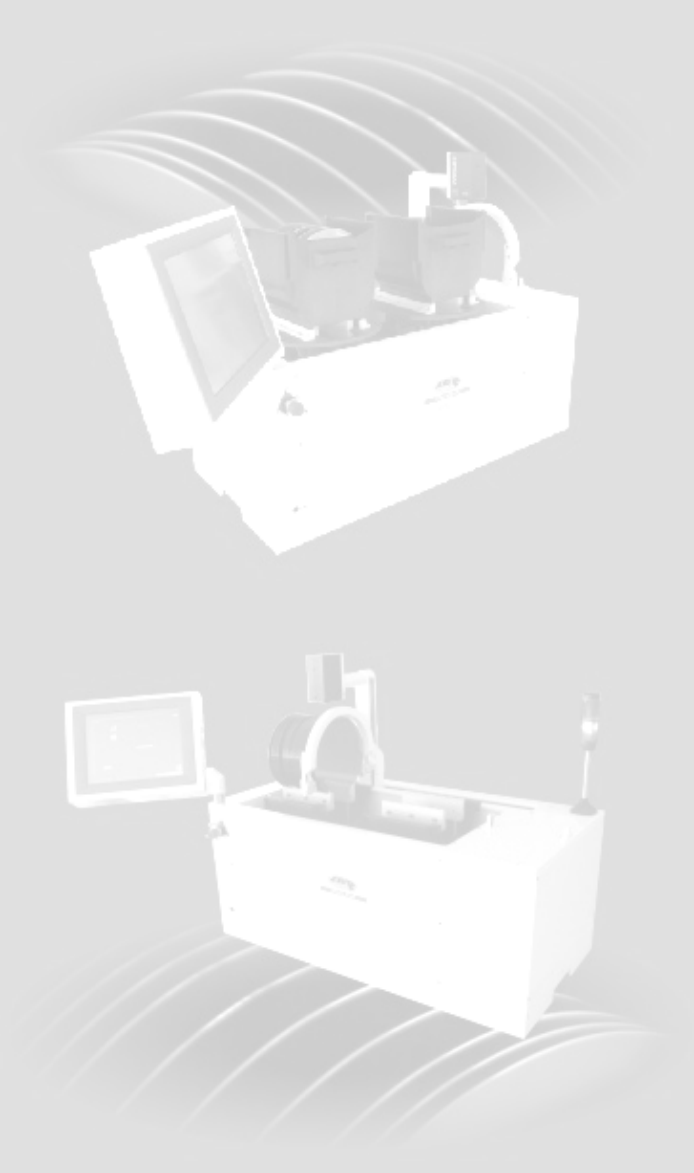
	CTS 2015
A	1000
B	1000
C	450

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

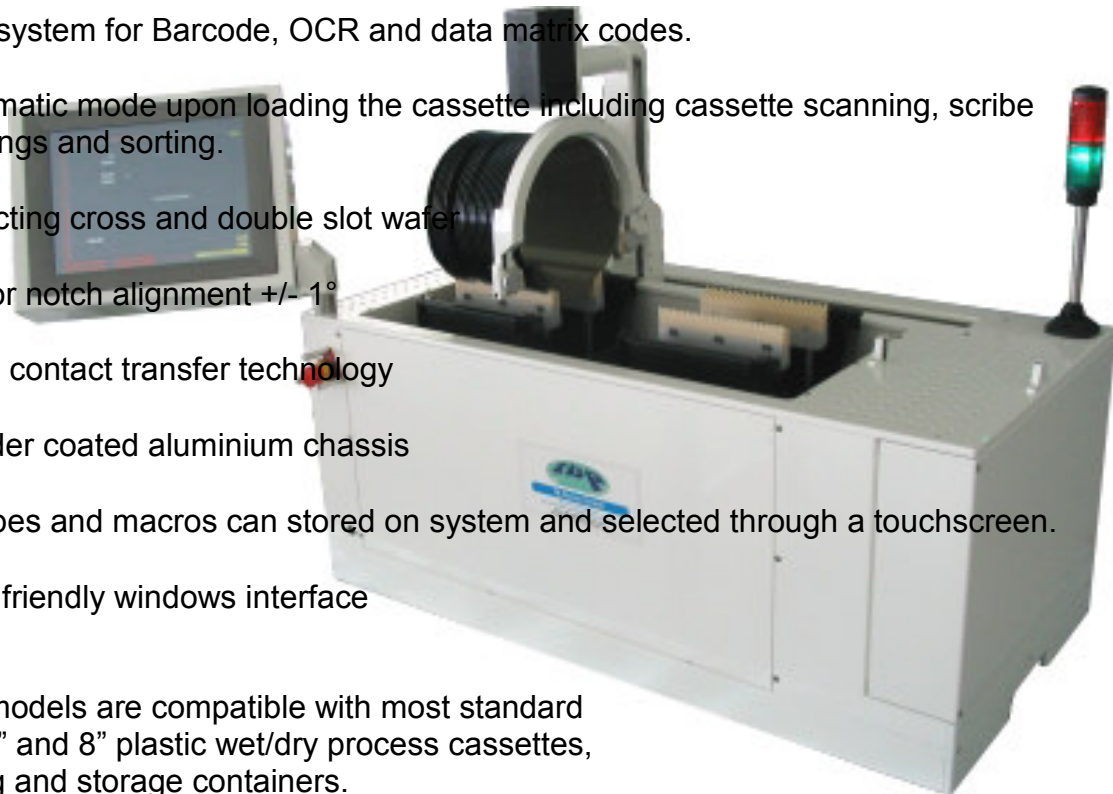




Two Cassette Sorter TCS 8 “

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 $\pm 1^\circ$
- 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

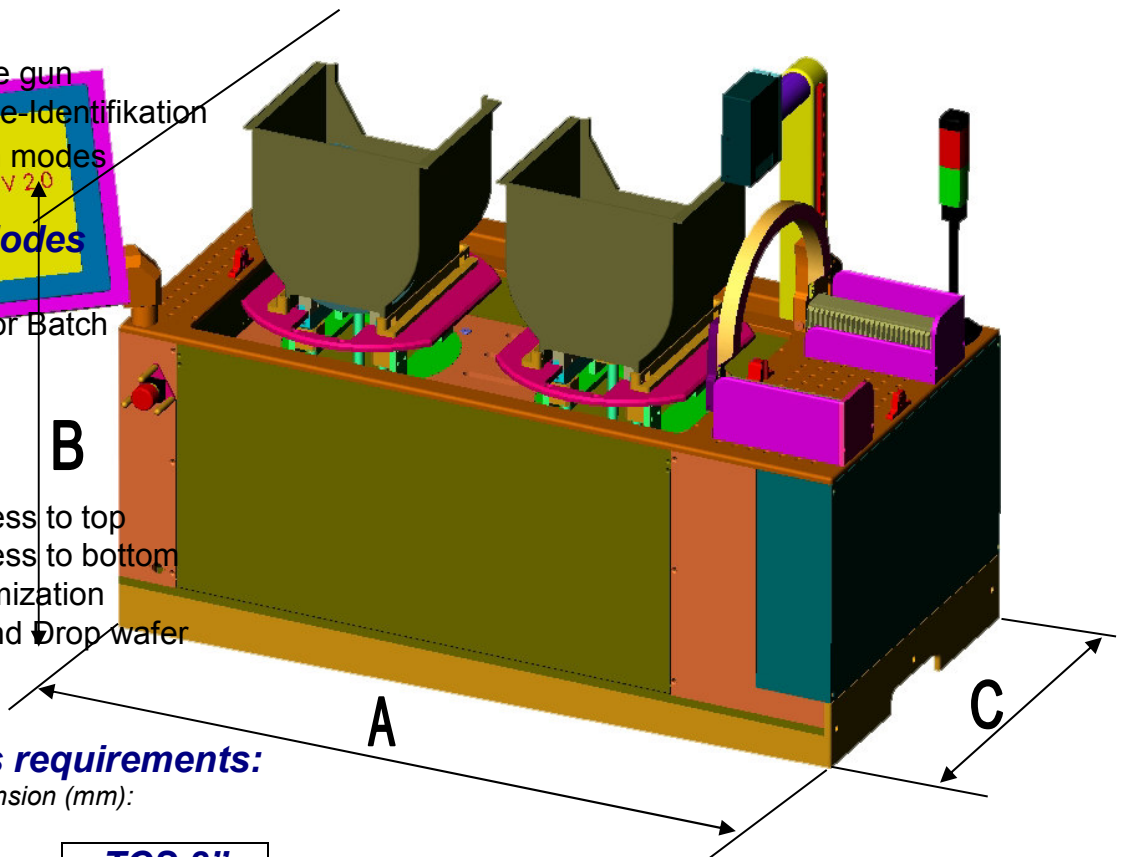
- Time to read 25 wafer
< 2 min
(alignment & scan & read)

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

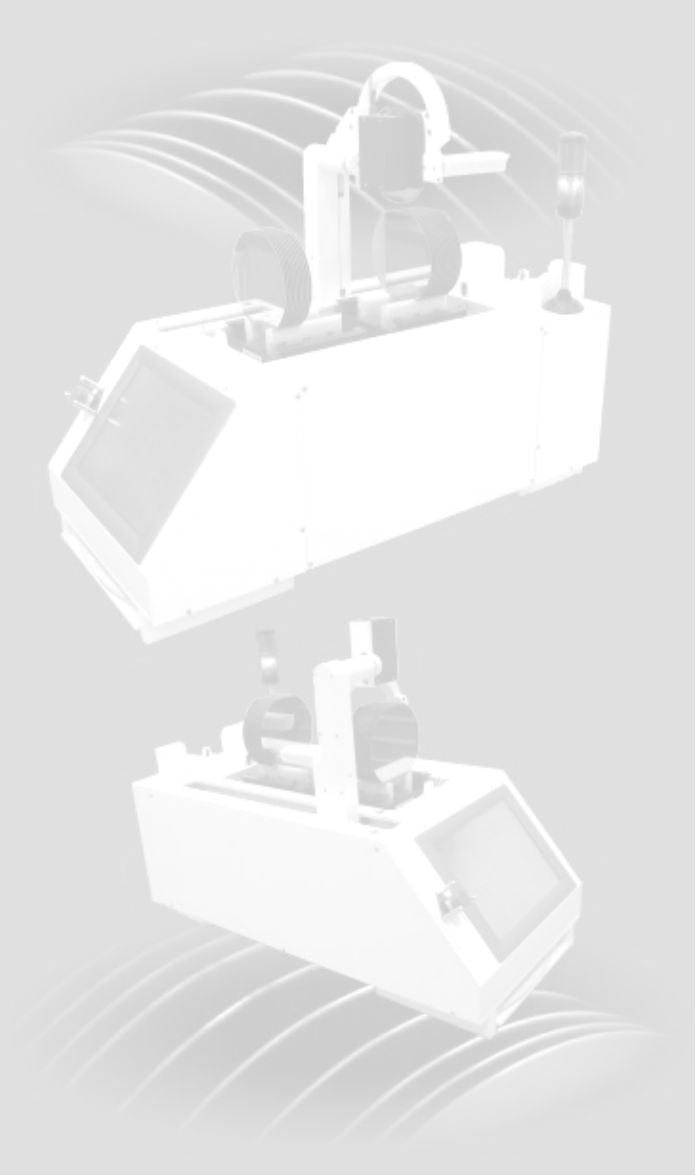


Facilities requirements:

Overall dimension (mm):

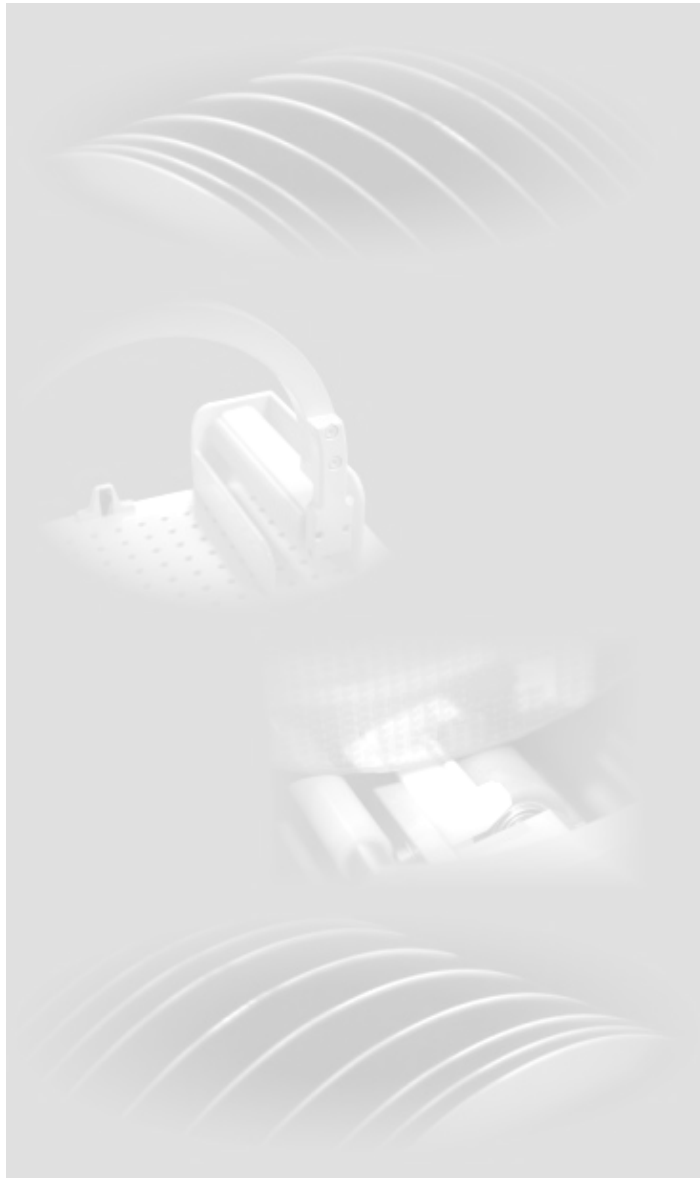
	TCS 8"
A	900
B	850
C	440

- **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 $\pm 1^\circ$
- 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.

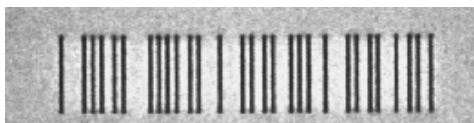


These models are compatible with most standard 4", 5", 6" and 8" plastic wet/dry process cassettes, shipping and storage containers.

Units are not compatible with metal cassettes.

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

BC 412



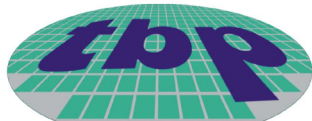
OCR



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

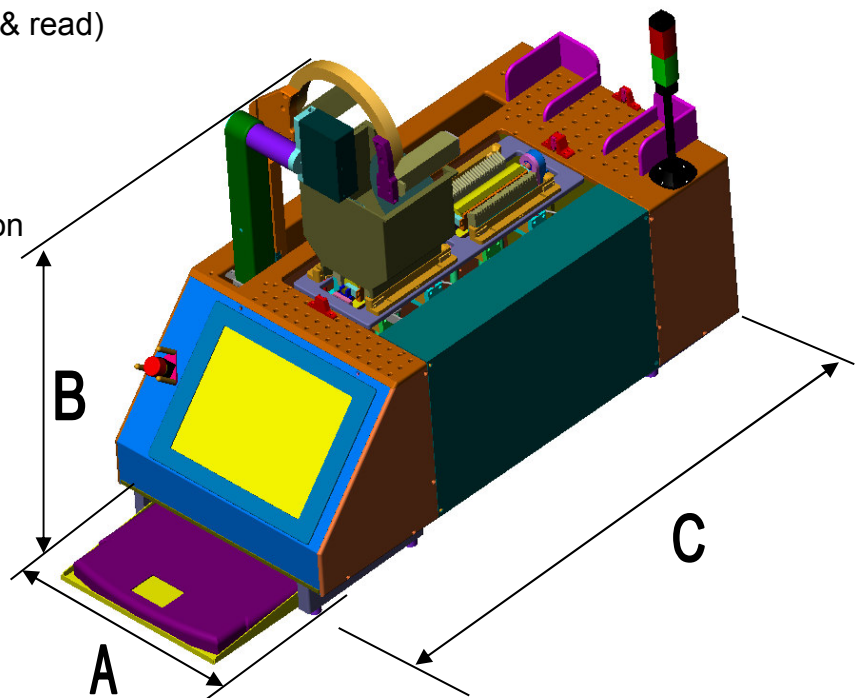
- Time to read 25 wafer
< 2 min
(alignment & scann & read)

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

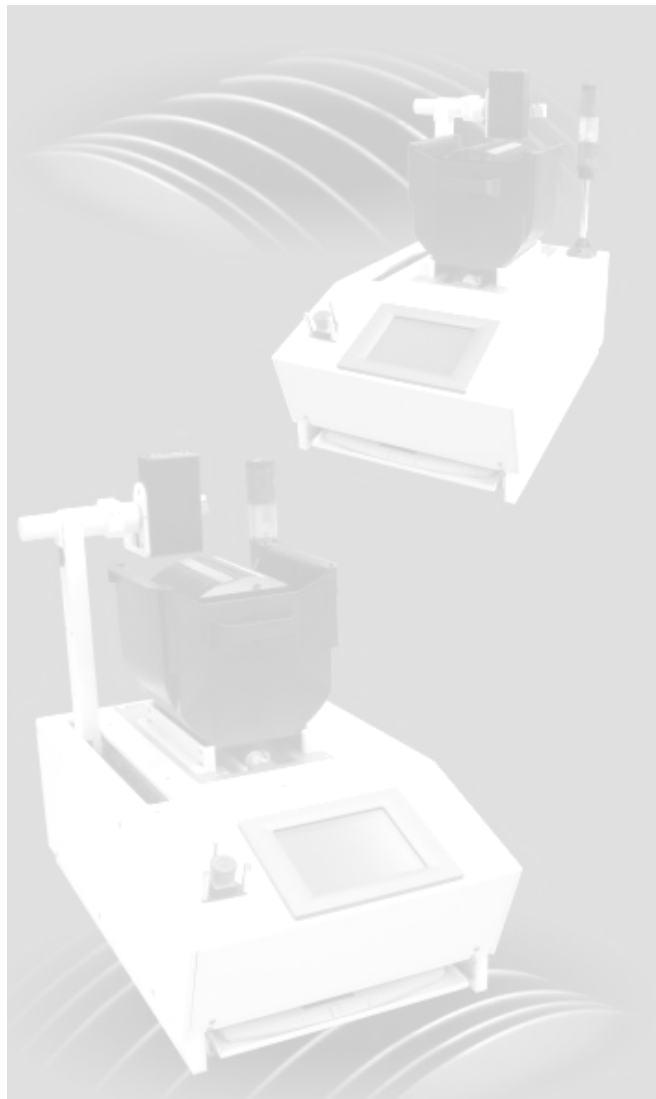


Facilities requirements:

Overall dimension (mm):

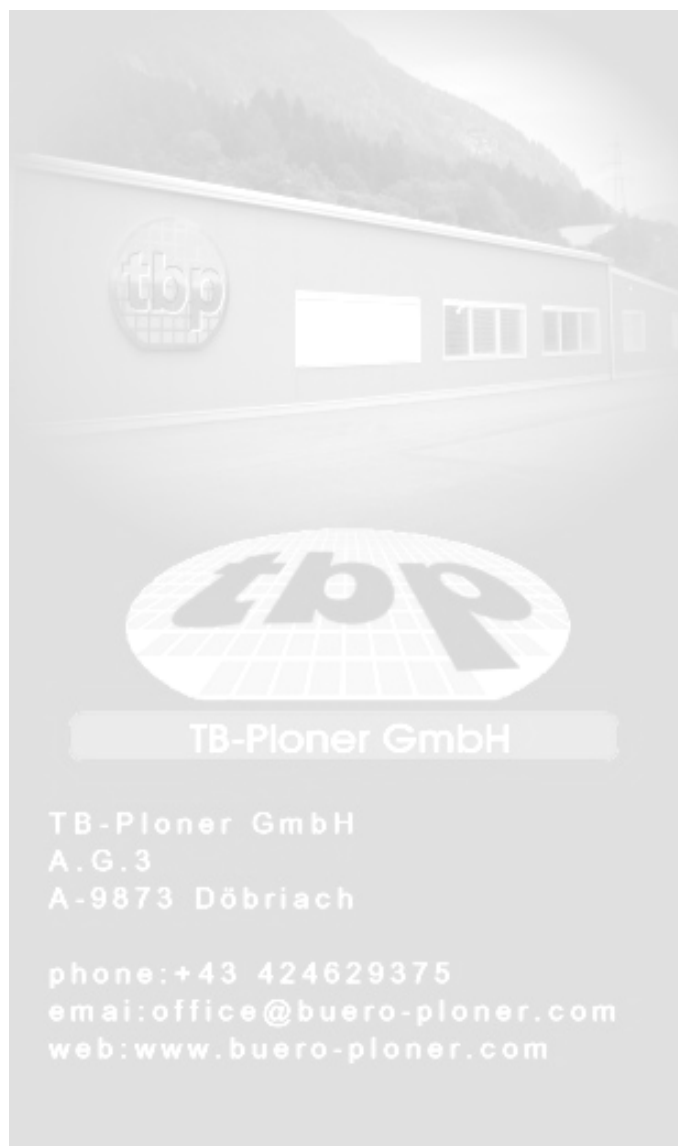
	TCS 4"	TCS 5"	TCS 6"
A	400	400	400
B	620	620	620
C	820	820	820

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



WAFER-MAP-SYSTEM

WMS - Series
Vertical



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 $\pm 1^\circ$
- Recipes can be 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)

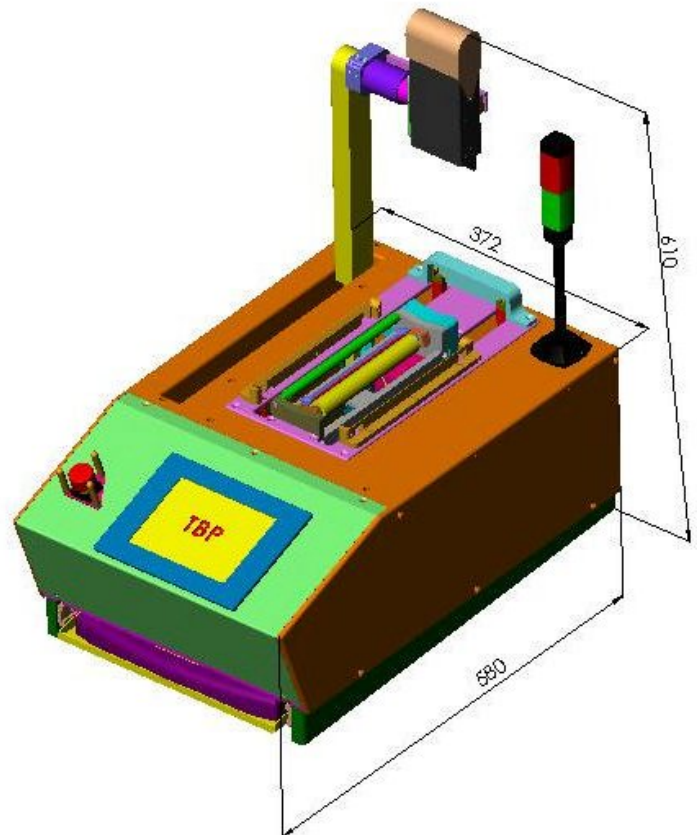
Options

- 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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TB-Ploner GmbH

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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 $\pm 1^\circ$
- 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.

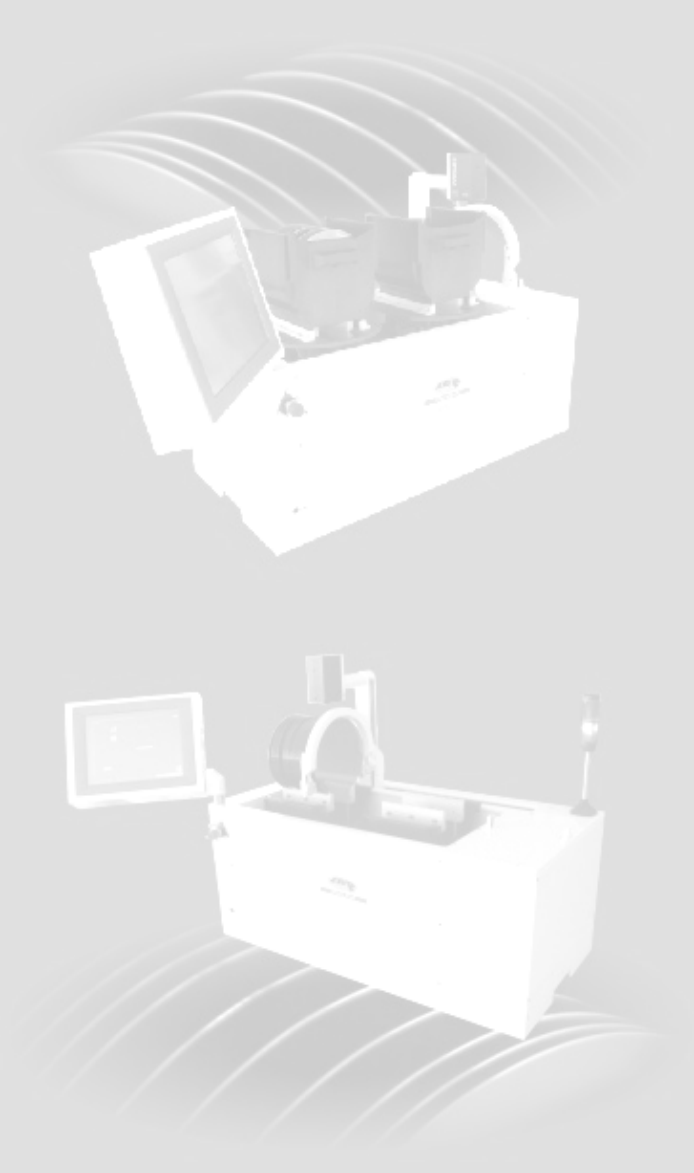
BC 412

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 be 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)

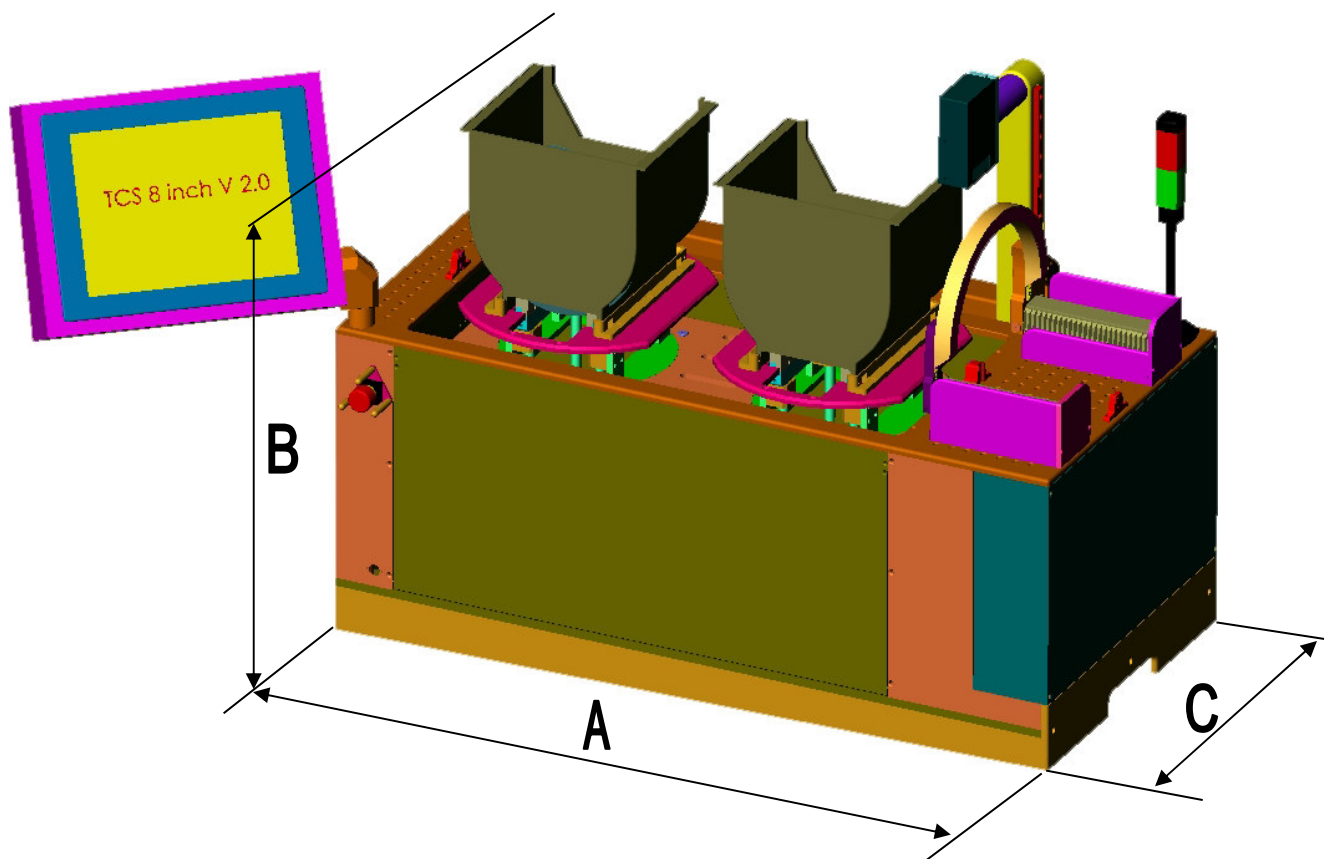
Options

- Barcode gun
- Cassette-Identifikation
- Wafer-Identification
- 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:

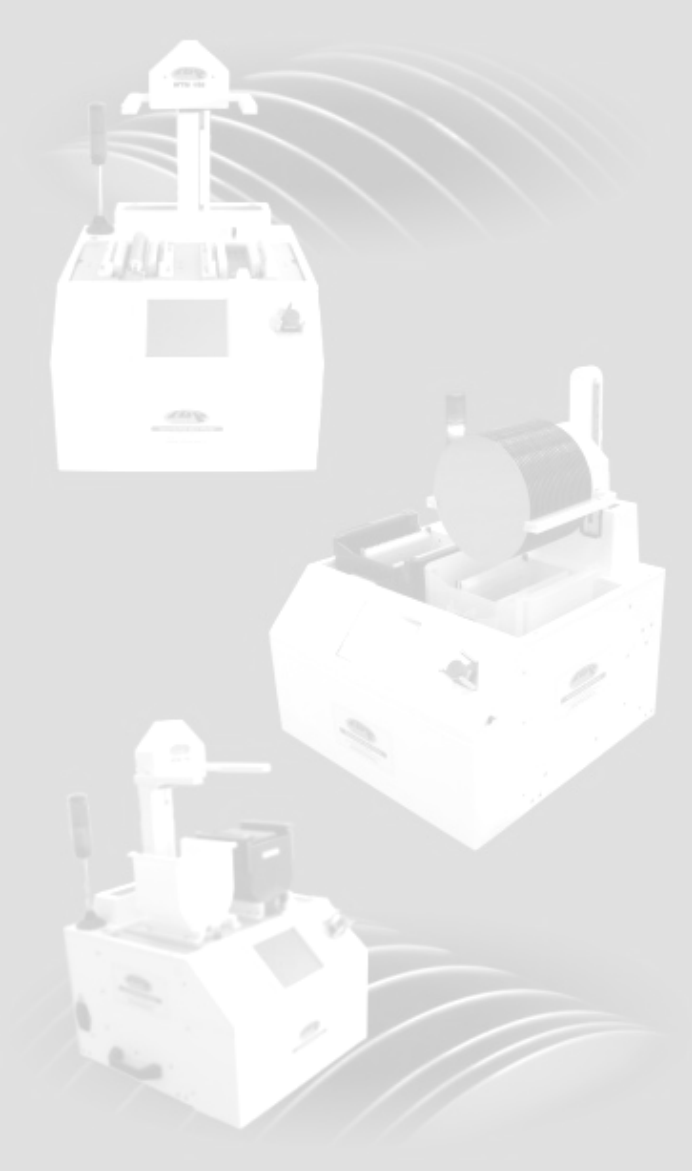


Facilities requirements:

Overall dimension (mm):

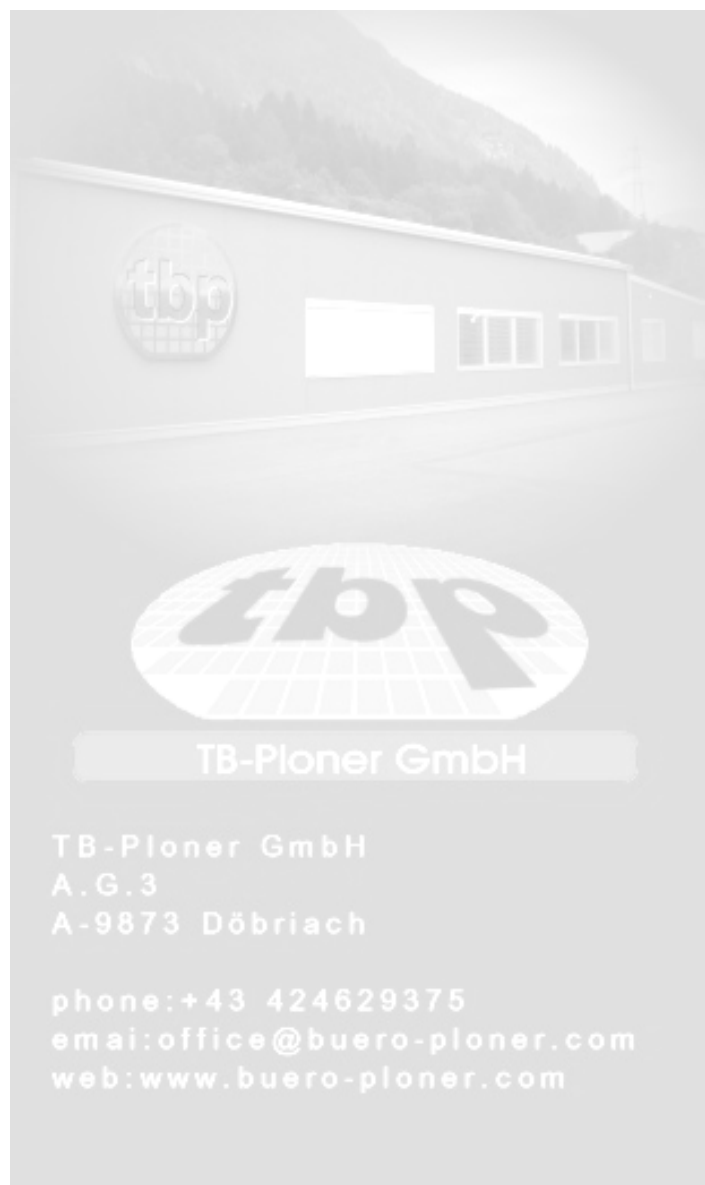
	SWTS 8"
A	900
B	850
C	440

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



WAFER-TRANSFER-MACHINE

WTM - Series
Vertical



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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:

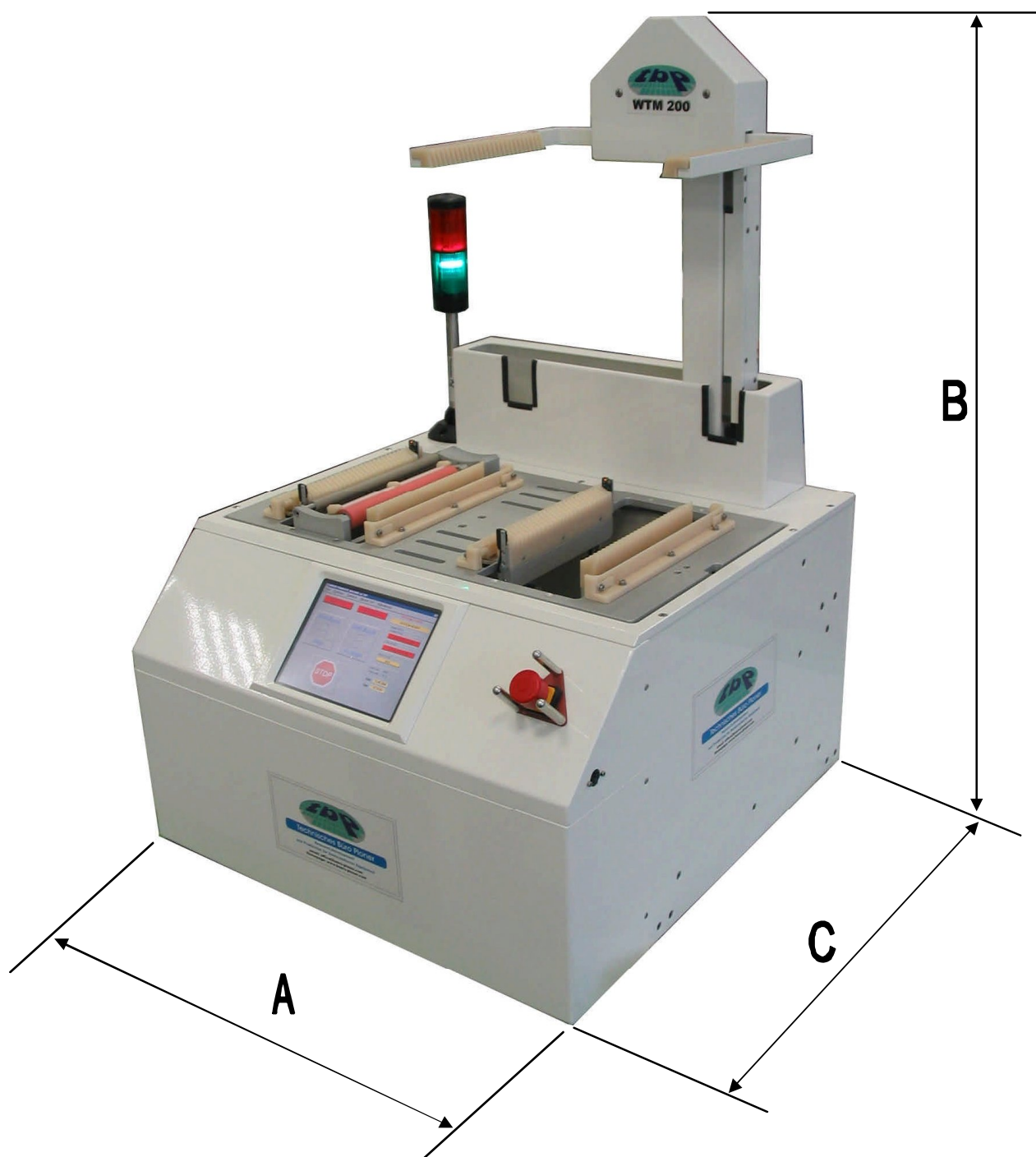
- Wafer-Identification
- Custom Modes

NOTE: Please specify cassette model numbers when ordering.



TB-Ploner GmbH

Wafer Transfer Machine WTM

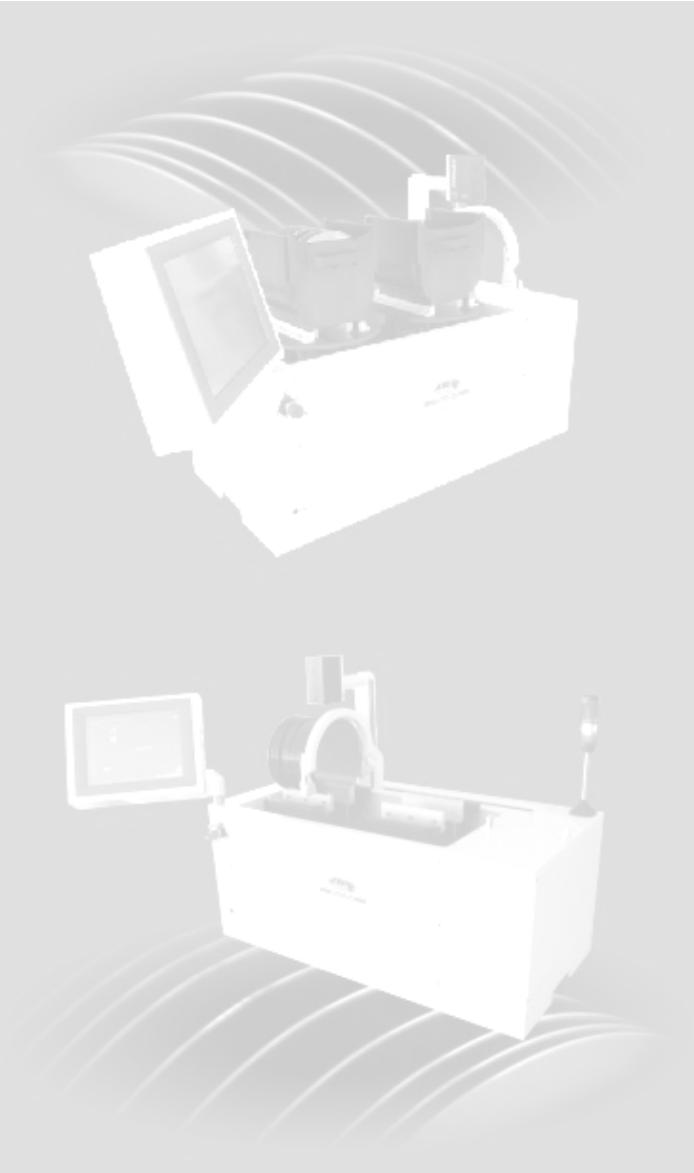


Facilities requirements:

Overall dimension (mm):

	WTM 200
A	510
B	770
C	505

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



QUARZ-BOAT-LOADER

QBL - Series
Vertical



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email: office@buero-ploner.com
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)

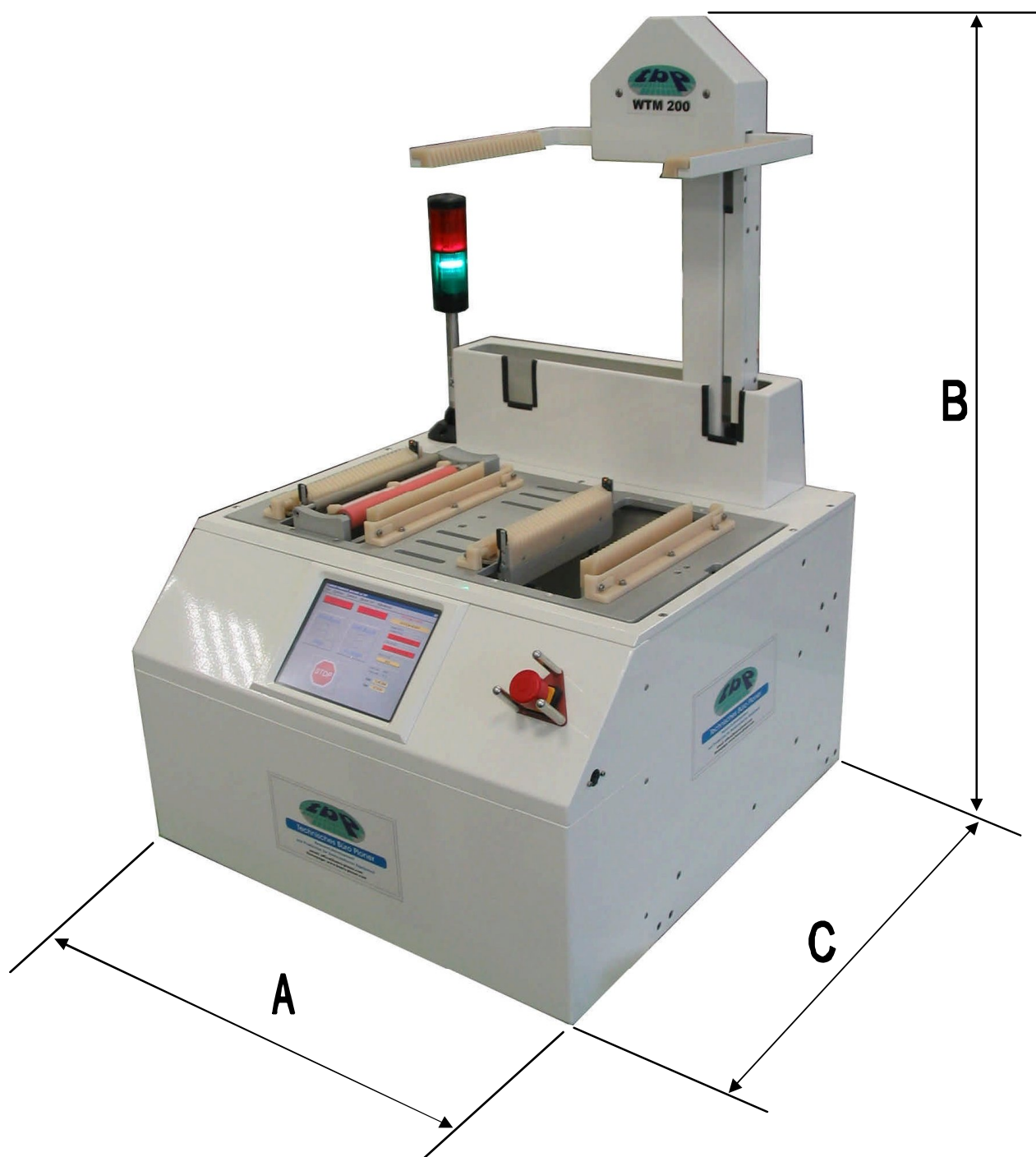


Options:

- Wafer-Identification
- Custom Modes

NOTE: Please specify cassette model numbers when ordering.

Quarz-Boat-Loader QBL

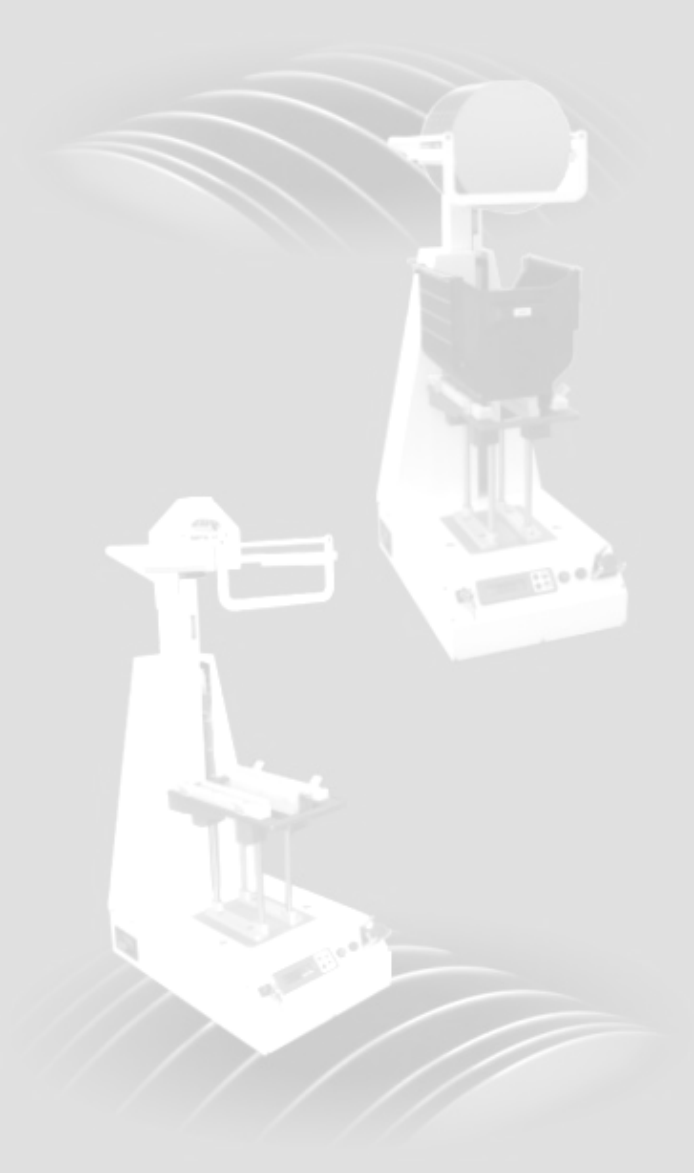


Facilities requirements:

Overall dimension (mm):

	QBL 200
A	510
B	770
C	505

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



SINGLE-STATION-WAFER TRANSFER-MACHINE

SWTM - Series
Vertical



TB-Ploner GmbH

TB-Ploner GmbH

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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.



TB-Ploner GmbH

Single Station Wafer Transfer Machine

Specification

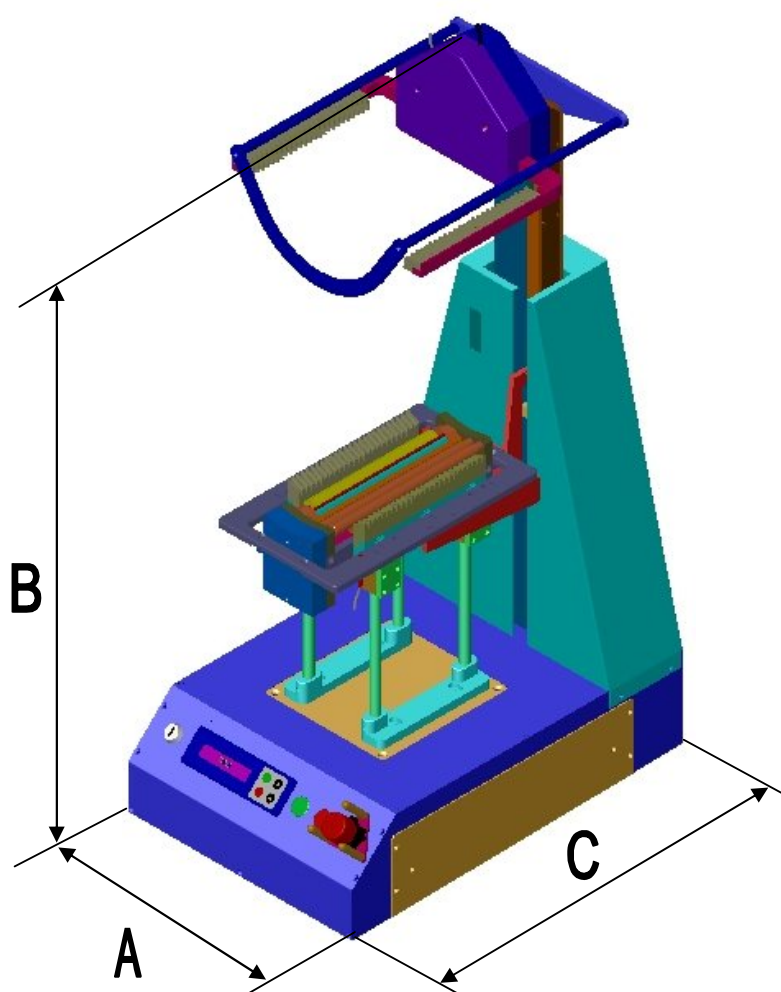
- Controlled by Microcontroller
- 16x2 digit LCD Display
- RS232 port

Performance

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

Options

- Wafer-Identification
- Wafer-Aligner
- Custom modes

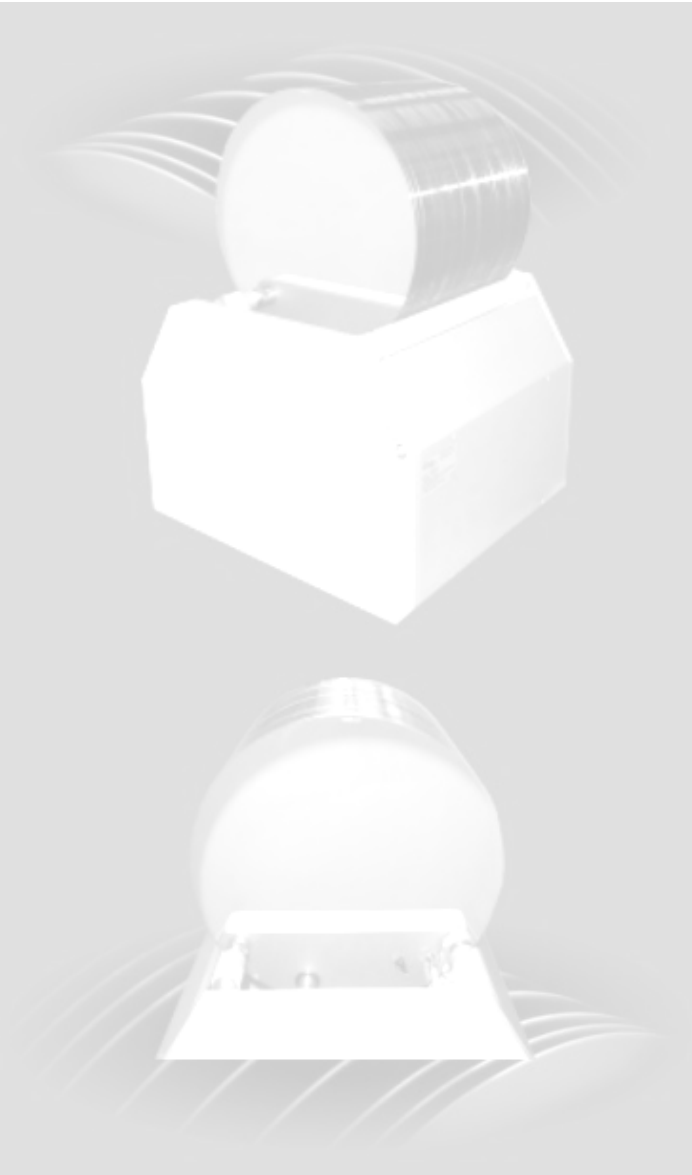


Facilities requirements:

Overall dimension (mm):

	SWTM 100	SWTM 125	SWTM 150	SWTM 200
A	300	300	300	300
B	830	830	830	900
C	450	450	450	450

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



NOTCH-FINDER-300mm

NF300 - Series
Batch-Alignment



TB-Ploner GmbH

TB-Ploner GmbH

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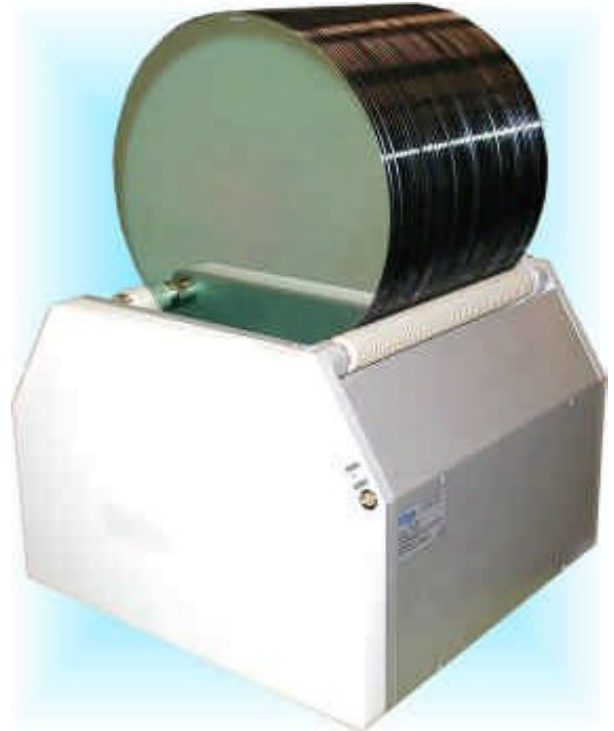
Notchfinder 300mm

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 μ 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° in 15 sec.*

Available Modes:

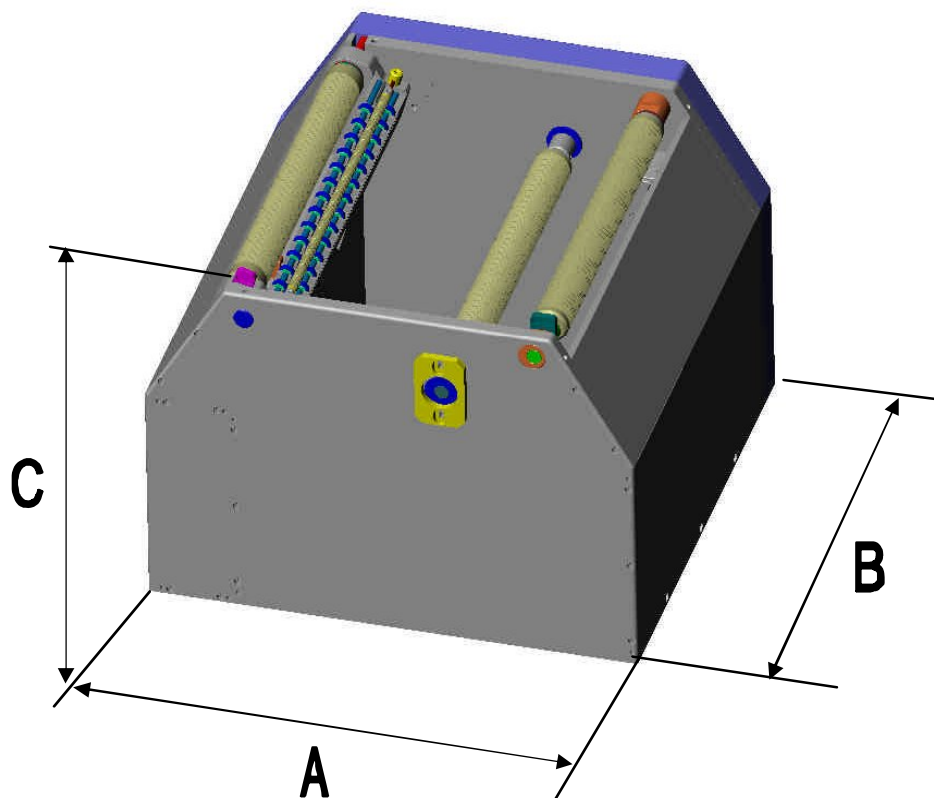
- *Maintenance / diagnostic*
- *Custom modes available upon request.*

Notchfinder 300mm

Model: NF300

Options:

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

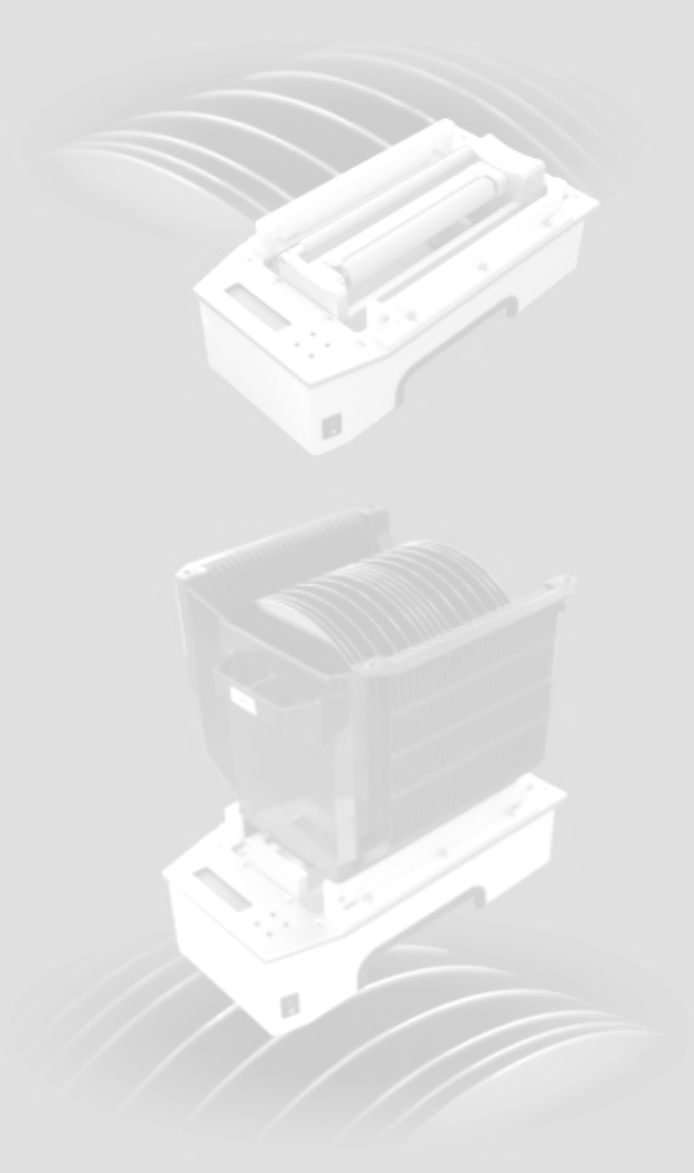


Facilities requirements:

Overall dimension (mm):

	NF300
A	390
B	355
C	285

- **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".

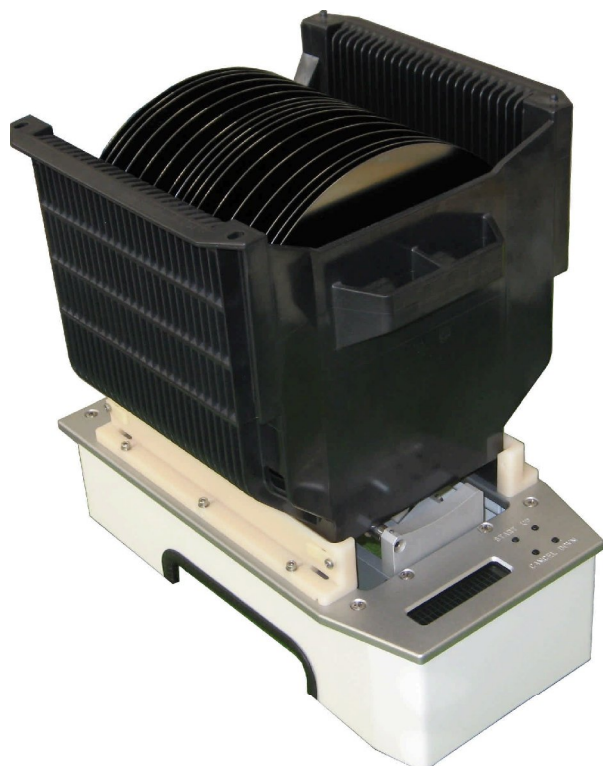
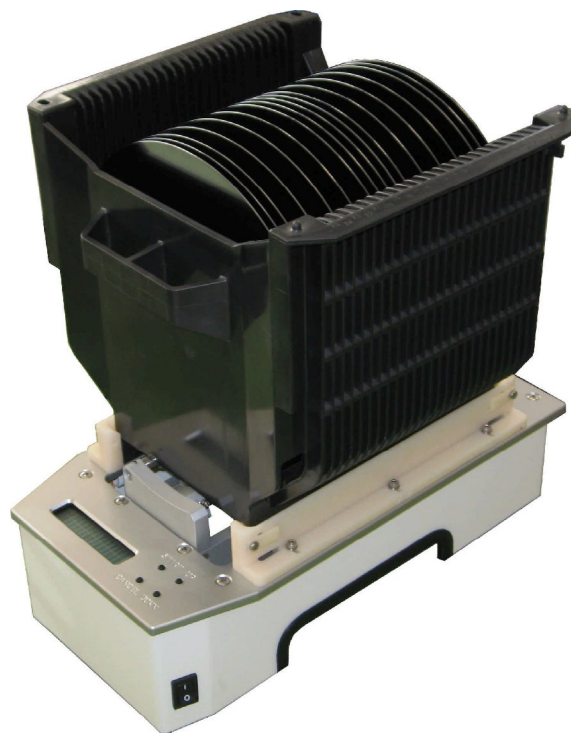
The operator can select 8 standard adjustment points

(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.



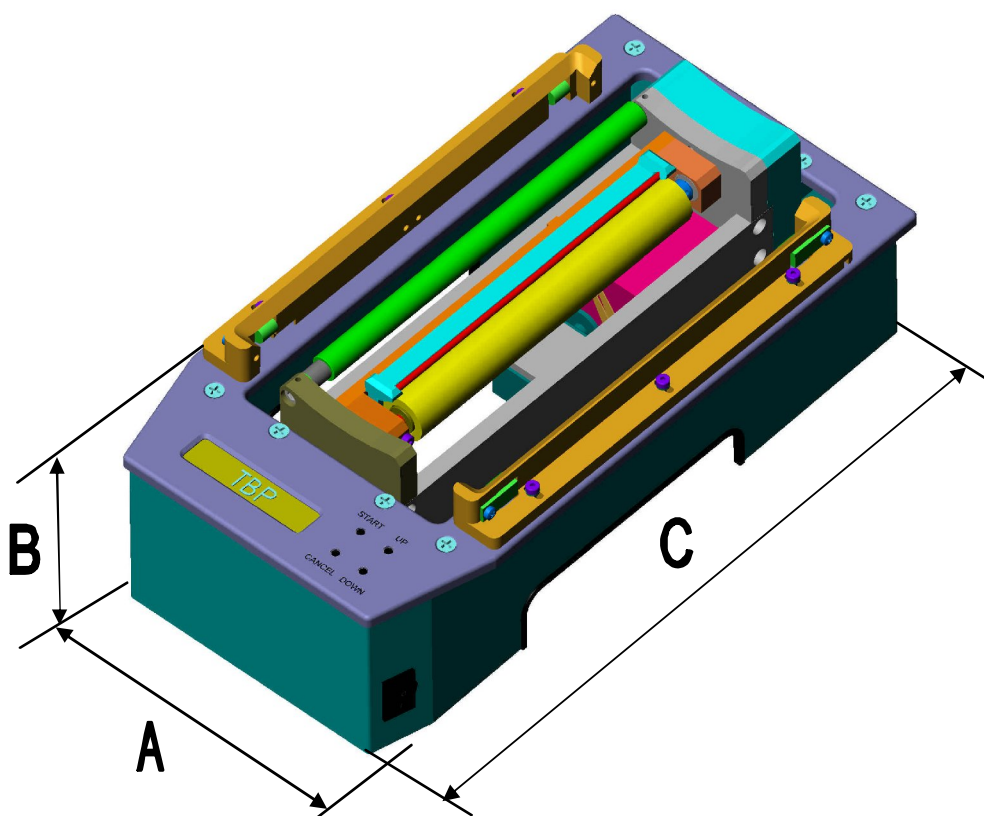
These models are compatible with most standard 8" plastic wet/dry process cassettes, shipping and storage containers. Units are not compatible with metal cassettes. Custom models are available for metal cassettes and non-standard carriers.

NOTE: Please specify cassette model numbers when ordering.

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, lift position) 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:

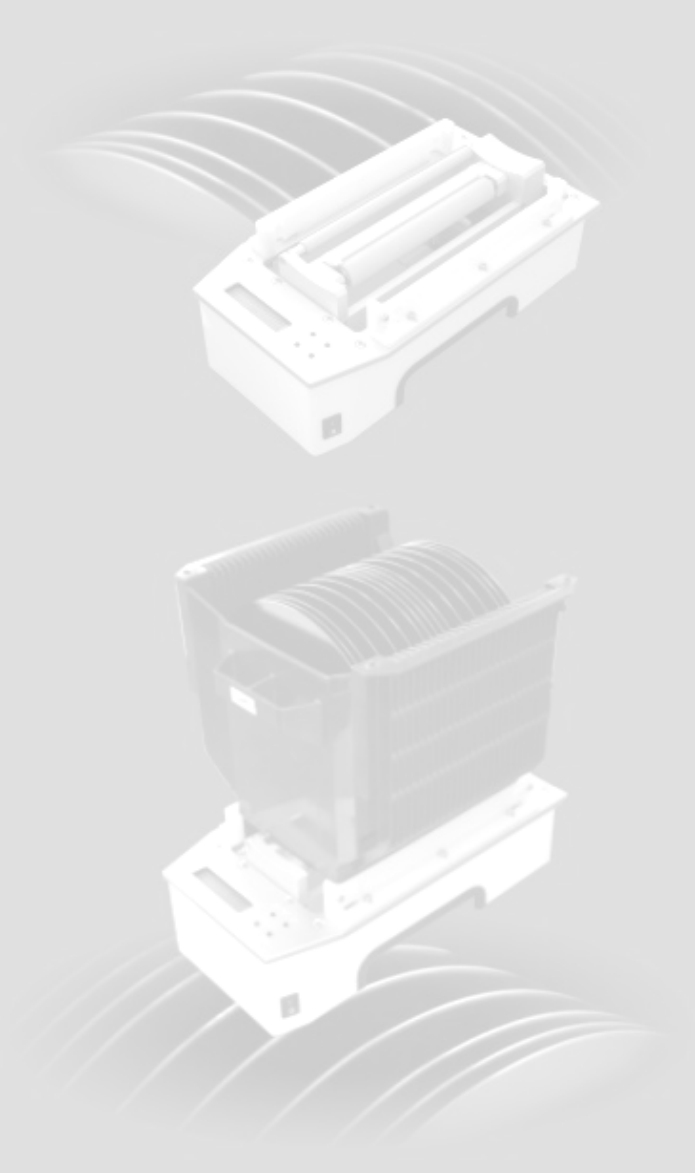
Overall dimension (mm):

	NF200
A	167
B	110
C	315

- **Weight: 1.2 kg**

Replacement Parts:

Part	Description
RMN01	Roller Motor Assembly
LMN01	Lift Motor Assembly
PRN01	Polyurethane Roller
EPN01	Electronic Board
PSN01	Powersupply



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.



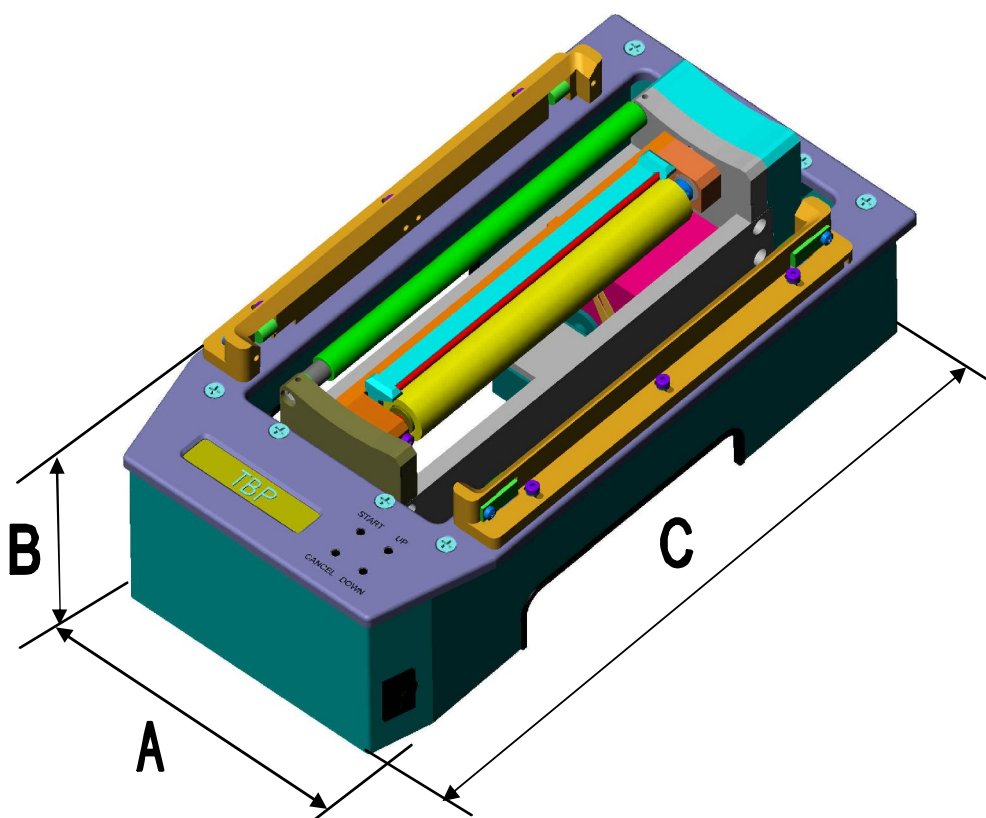
These models are compatible with most standard plastic wet/dry process cassettes, shipping and storage containers. Units are not compatible with metal cassettes. Custom models are available for metal cassettes and non-standard carriers.

NOTE: Please specify cassette model numbers when ordering.

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, lift position) 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):

	FFXXX
A	150
B	120
C	320

- **Weight: 1.5 kg**

Replacement Parts:

Part	Description
RM01	Roller Motor Assembly
LM01	Lift Motor Assembly
PR01	Polyurethane Roller
EP01	Electronic Board
PS01	Powersupply