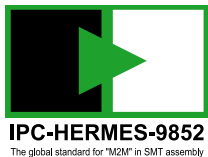


Ersa Handling & Automation

A class of its own!



Handling & Automation

The Ersa modular system



Optimal board handling – Perfectly adapted to your production process



HANDLING & AUTOMATION

- Ersal quality in Ersal design
- Modular system offering a wide range of components
- Tailor-made solutions
- Use of top-quality components
- State-of-the-art drive technology
- Commissioning together with the soldering system

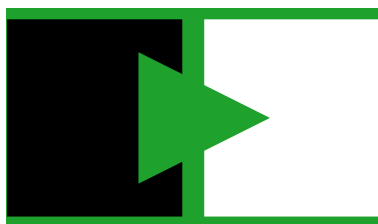
Handling & Automation

The Ersa modular system



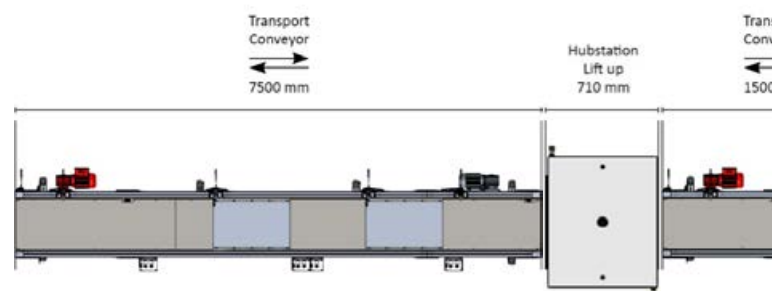
The handling system shown, which is based on a modular system, only hints at the application cases possible. There is almost no limit to the combination options that can actually be implemented.

Depending on customer requirements, the handling system can be completely tailor-made.

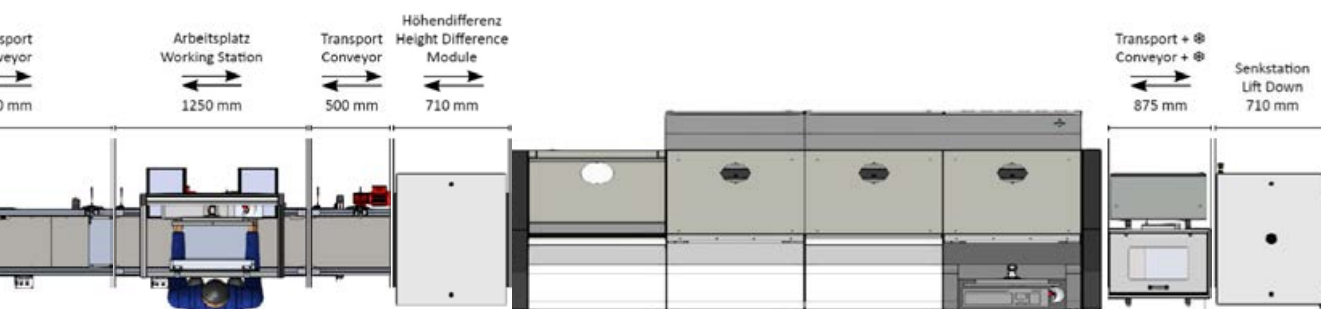


IPC-HERMES-9852

The global standard for "M2M" in SMT assembly



Always the right combination for your automation requirements and budget





Transport

The transport zone can be configured individually, enabling it to be tailored precisely to the requirements at the production location. There is no maximum limit.

An optional return transport zone is always possible, making the compact

realisation of bidirectional printed circuit board transport feasible.

Integrated cooling

If required, an additional cooling after soldering process can be integrated in the return conveyor to balance temperatures.



Lifting station

Vertical upward component transport. Lifts the printed circuit board from the lower transport zone to machine infeed height.

Lowering station

Vertical downward component transport. Lowers the printed circuit board from the machine outfeed height to the lower transport zone.

Removal station

e.g. for separating out non-spec parts during the ongoing production process. The conveyor does not have to be stopped. Individual height compensation between transport and lift units can be integrated if required (for reasons of workstation ergonomics).



Turning station

Takes account of space restrictions in your production line. There is no longer anything stopping the process flow being redirected. Separate, turn, forward the product.

Quite simply pointing the way forward...



During development of the new Ers handling systems, great care was taken to cater to customer requirements. This resulted in solutions which offer optimum printed circuit board handling for the production process. Various modules are available which can be combined virtually without limitations.

The range includes lifting and lowering stations as well as height difference modules, turning stations and workstations as well as robot solutions. Conveyor belts are available in diverse lengths to connect the individual modules.

The handling system shown above is only one example out of an almost infinite number of combination options possible with the highly flexible Ers modular system. Depending on customer wishes, the handling system can be completely tailor-made.



Robot solutions

Tailor-made robot solutions can be integrated on request. Whether collaborative or stand-alone solution – we check the respective task and develop the perfect solution for your production processes.



Workstations

Tailor-made workstation solutions matching the respective process requirements.

- Rapid workstation for printed circuit board assembly
- Inline quality check
- Process discharge

We prepare a concept for you.

VERSAGUIDE

Reliable THT assembly thanks to optical control



Advantages

- Uses image recognition to prevent errors
- Easy to operate
- Supports digitalization of your workplace
- High magnification lens
- Can be retrofitted into existing workplace concepts

VERSAGUIDE is a support and verification system for correct component placement or final assembly work. It prevents assembly errors and therefore cuts costs for time-consuming reworking. The VERSAGUIDE's smart camera has its own processor and therefore does not require an additional PC.

All you need is a keyboard with mouse and a monitor. The criteria to be checked can easily be set and monitored using image recognition software. Features such as character strings, patterns, colors and textures are reliably recognized. Individual components or even assembly instructions can be read into the software as images and made available.

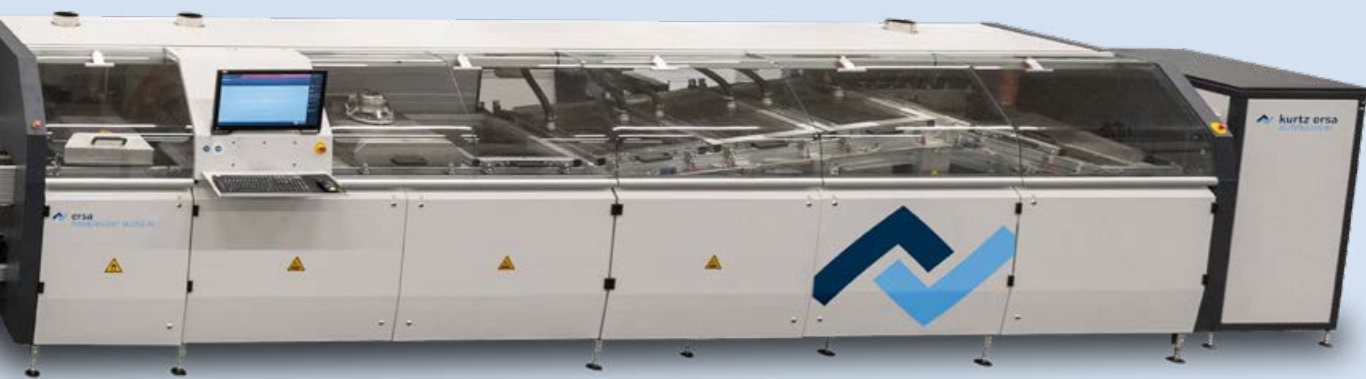
VERSAGUIDE then guides the user through the single work steps and provides immediate feedback. The next step is not displayed until everything is okay.

Log data is backed up for each work step to ensure traceability. The serial number can also be stored using a barcode scanner.

VERSAGUIDE can be set up as a single camera system for existing workplace concepts. Or Ersas will supply you with the complete VERSAGUIDE workstation, fine-tuned to your requirements with additional accessories such as accumulation roller conveyor, barcode scanner, lifting unit, etc.

ROBOPLACE

Increasing efficiency with automated THT mounting



Even in SMT dominated electronics production, THT components are still an integral part of technically sophisticated printed circuit assemblies for industry and the automotive sector. The number of these components per assembly, such as plug connectors, capacitors, inductors, relays, etc., is generally small so they are often assembled manually in placement workplaces situated upstream the selective soldering machines.

Several people are often employed for these simple placement operations to achieve short cycle times. ROBOPLACE from Ersa is designed specifically for just such monotonous, repetitive placement and assembly work. Small to medium quantities are this system's strength, with guaranteed stable quality.



Employees are then free to carry out other, more complex tasks. The closed, safety-monitored robot cell enables extremely fast mounting speeds with high precision, resulting in very short cycle times. Component supply is based on commercially available systems; selection of the system is component and process-specific.

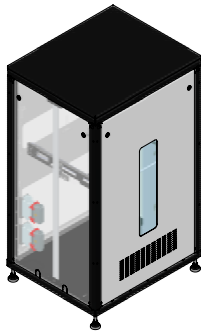
Modern image processing systems inspect the components prior to placement and reject defective components with deformed pins or other quality-related parameters. This ensures that faulty components do not enter the production process.

Highlights

- Automatic component validation
- Possible to use different component supply systems
- Stable placement results

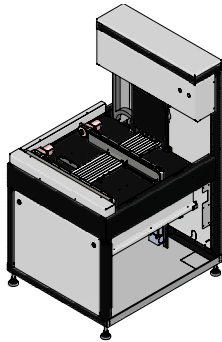
At a glance

Overview and technical data of the modules



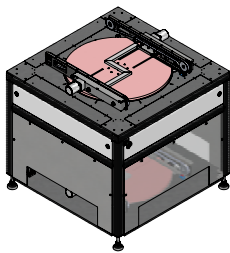
Lifting/lowering station: MH-LIFT

Length:	750 mm
Width:	900 mm
Height:	1,575 mm
Conveyor width:	250 – 520 mm
Max. product length:	620 mm



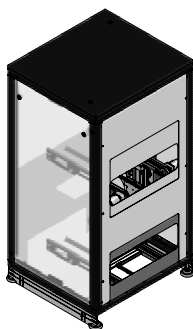
Open lifting/lowering station: MH-OL

Length:	835 mm
Width:	985 mm
Height:	1,575 mm
Conveyor width:	250 – 520 mm
Max. product length:	620 mm
Additional options:	
■ Manual workstation available	



Turning station: MH-DS

Length:	950 mm
Width:	950 mm
Height:	957 mm
Conveyor width:	250 – 520 mm
Max. product length:	620 mm



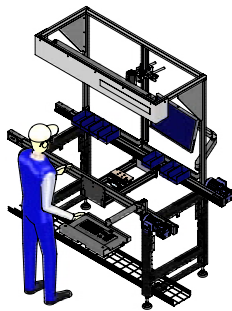
Height compensation module: MH-HD

Length:	750 mm
Width:	830 mm
Height:	1,575 mm
Conveyor width:	250 – 520 mm
Max. product length:	620 mm

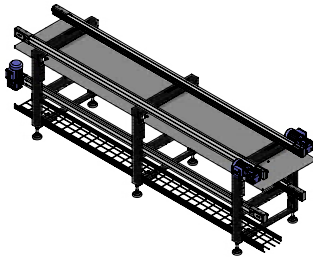
At a glance

Overview and technical data of the modules

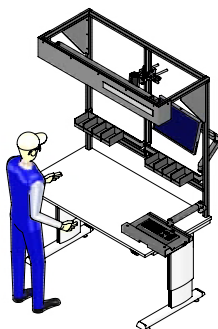
Tailor-made
modules on
request!



Inline workstation: MH-AP	
Length:	2,000 mm
Width:	1,650 mm
Height:	2,074 mm
Conveyor width:	250 – 520 mm
Max. product length:	620 mm
Additional options:	
■	VERSAGUIDE
■	Stoppers
■	Shelves and storage boxes

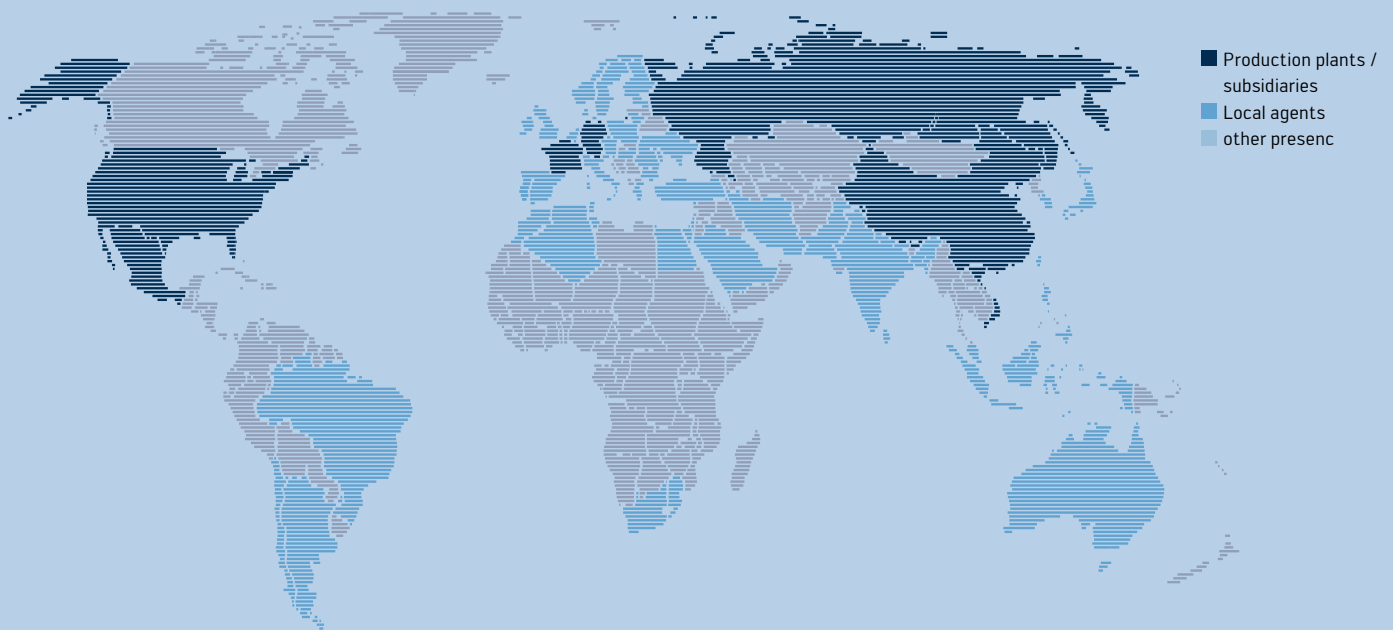


Transport: MH-T	
Length:	in 0,5 m steps
Width:	depending on carrier width
Height:	on customer request
Conveyor width:	250 – 520 mm
Max. product length:	620 mm
Additional options:	
■	Special length on demand
■	Adaptable width (min 250 mm)
■	Cooling included in return conveyor
■	Stoppers



Workplace offline: MH-AP	
Length:	1,718 mm
Width:	1,000 mm
Height:	2,300 mm
Conveyor width:	250 – 520 mm
Max. product length:	620 mm
Additional options:	
■	VERSAGUIDE
■	Stoppers
■	Shelves and storage boxes

Electronics Production Equipment Worldwide Presence



America

Kurtz Ersa, Inc.
1779 Pilgrim Road
Plymouth, WI 53073
USA
Phone +1 920 893 3772
from US: 1 800 363 3772
Fax +1 920 893 3322
usa@kurtzrsa.com
www.ersa.com

Mexico

Kurtz Ersa, S.A. de C.V.
Av. Lopez Mateos Sur Núm. 1450 Int. 7
Col. Las Villas (Plaza las Villas)
Tlajomulco de Zúñiga, Jalisco
C.P. 45643
México
Phone +52 33 15 93 18 63
info-kmx@kurtzrsa.com
www.ersa.com

Asia

Kurtz Ersa Asia Ltd.
Unit 03-05, 8th Floor
One Island South
No. 2 Heung Yip Road
Wong Chuk Hang
Hongkong
China
Phone +852 2331 2232
Fax: +852 2758 7749
asia@kurtzrsa.com
www.ersa.com

China

Ersa Shanghai
Room 720, Tian Xiang Building
No. 1068 Mao Tai Rd.,
Shanghai 200336
China
Phone +86 213126 0818
Fax +86 215239 2001
info-esh@kurtzrsa.com
www.ersa.com

Vietnam

Kurtz Ersa Vietnam Company Limited
B916 Road 3, Kizuna 2 Factory Area, Lot B4-3-7-8,
Tan Kim IP, Can Giuoc Dist. Long An Province,
Vietnam
Phone +84 2723 733 682
info-kev@kurtzrsa.com
www.ersa.com

France

Kurtz Ersa France
2, Rue de Wissembourg
67500 Haguenau
France
Tel.: +33 6 07 78 01 87
kefrance@kurtzrsa.com
www.ersa.com

Ersa GmbH (Headquarters)
Leonhard-Karl-Str. 24
97877 Wertheim/Germany

Phone +49 9342 800-0
Fax +49 9342 800-127
info@ersa.de
www.ersa.com

