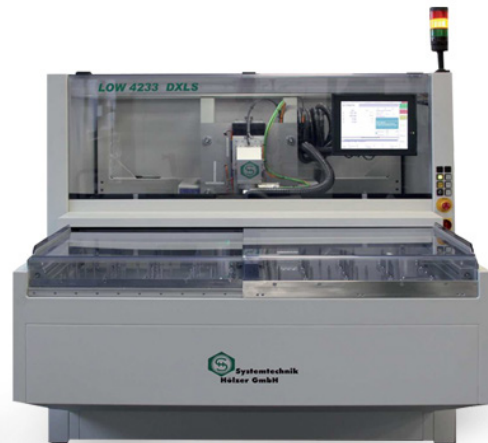


HÖLZER DEPANELLING AND MARKING MACHINES



InterElectronic



INTRODUCTION



InterElectronic Hungary Ltd. offers equipments, machines and different materials (ESD) of different production technologies (SMT/THT/LED). Including high quality, special request fulfilling soldering machines, devices, tools, instruments and materials for the electronic industry and services.

SERVICES

Our each and every product has a warranty granted by the InterElectronic Hungary Ltd. For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories and instruments.

DEMONSTRATON

In case if any of our products aroused your interest the InterElectronic Hungary Ltd. would be glad to visit your company and hold a presentation of the product of your interest. As far as possible we serve you by bringing demo devices with us. In the most cases of our products we are proud possessors of references nation-wide. Major machines also could be observed at our partners' site.

PRICE LIST

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website (www.interelectronic.com), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.

ORDER/SHIPPING

Our soon to be partners are welcomed to be helped via telephone, fax or e-mail. We use different ways of delivery, depending on the preference of our partner. We can deliver your purchased product by ourselves, by freight or courier service. The way of delivery might be negotiated previously. We offer you cash on delivery nation-wide!

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Serie LOW MINI

Manual Depanelling with 1-and 2-fold Loading

The compact table machine LOW MINI was in particular developed for Depanelling of PCB series with small format and series with big format. PCB materials with residual bridges will be separated quickly and economically up to a size of 320 mm x 580 mm. The separation process takes place in all axes servo controlled, with a routing spindle from above. The workspace changes from small (320x280mm) to large (320x560mm) format is the highlight of the machine, due to the simple and uncomplicated handling.



- Short cycle time by Shuttle mode
- X-/Y-axis in linear motor technology
- Panel fixation with pin fixture
- Flexible Handling
- PCB with residual bridges
- Spindel adjustment in servo technology
- Exhaust unit
- Easy to use
- Optimum price/performance ratio

Manual depanelling - flexible and cost-effective

The concept of manual depanelling has many advantages regarding flexibility and costs. Medium quantities can be separated quickly and dust-reduced using LOW MINI. The standard includes the two-fold loading in linear motor technology, to increase the workspace an operation with 1-way shuttle is possible. Ease of operation and maintenance combined with an excellent price/performance ratio enable a comfortable work experience - the investment into this depanelling machine is also profitable from an economic point of view.

LOW MINI Technical specification

Machine		Work Space	
W x D x H	800 x 800 x 620 mm	2-fold loading	320 x 280 mm
Weight	approx. 150 kg	1-fold loading	320 x 560 mm
Voltage	230 V / 50Hz / 6 A	Mounting height top side max	10 mm
Ambient temperature	+ 18 °C - + 30 °C	bottom max.	30 mm
Depanelling speed		Tools	
Axis speed	160 mm /s	Shank tools	0,8 - 2,4 mm
Repeatability	+ 0,01 mm	Clamping diameter	1/8"
Depanelling	+ 0,1 mm	Rpm	> 60.000 U/min

Serie LOW 4233

Semi-automatic and Stress-free Depanelling Basic Machine with Parallel Shuttle

The highly dynamic depanelling machine LOW 4232 is in particular suited for medium to high product volumes and masters growing demands in the production process. PCB panels made of different materials will be depanelled by means of highly dust- and stress-reduced sawing and routing technology, providing utmost product flexibility, precision and throughput. Highly dynamic linear motor axes, tools and grippers meet highest demands in quality and guarantee a long lifecycle and reliability of the depanelling machine.

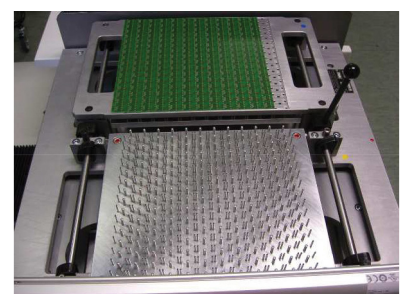


- Rigid welded steel frame
- Highly dynamic linear motor axes
- Quick product changes possible
- Flexible PCB fixation system
- Depanelling procedure with discs and/or shank tools
- Depanels any PCB material
- Laser measurement of axes
- Customized special sizes possible

Semi-automatic depanelling - customized solutions

The depanelling machine LOW 4232 enables quick product changes respecting at the same time short depanelling and handling times. Feeding is executed by the shuttle, the intake and fixation by the pin clamping fixture and, if required, in combination with vacuum suction unit.

The high performance of the depanelling machine with standard cutting or routing module, fully automated cutting-edge processing, image-assisted teach-in camera system and two fixtures for PCB placement on work carrier can be extended by many customized adaptations and optional equipment (e.g. camera vision system). Precise laser measurement of the axes before putting the machine into operation is part of our individual customer service for all in-line and stand-alone depanelling systems of Systemtechnik Hölzer.



Multi PCB panel feeding



Disc depanelling module with vision system

Printed Circuit Board Feeding & Fixation

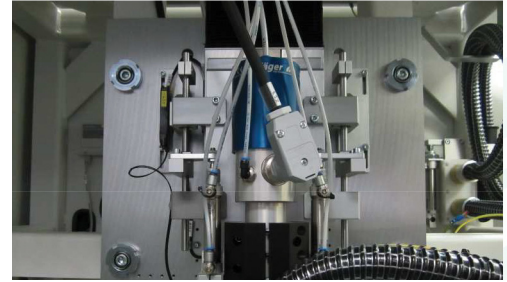
Printed circuit board feeding via parallel shuttle. Fixation centering pins and vacuum suction unit. Stabilization with retainer brush from above/below. Cap or mask or product-specific design. Painted circuit board torsion max. 1% of length or width respectively.

Dust extraction

External dust ignition proof suction unit, H filter, automatic cyclical ded. Optional connection to central suction unit.

Multi axes system control

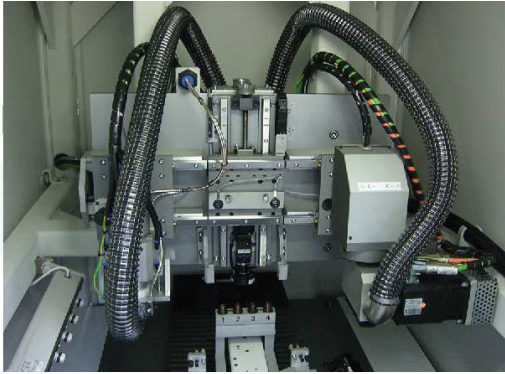
IPC control DIN program 66025,
Windows® XP/7, 12" Touch-screen Monitor
Path control (cutting/routing/drilling)



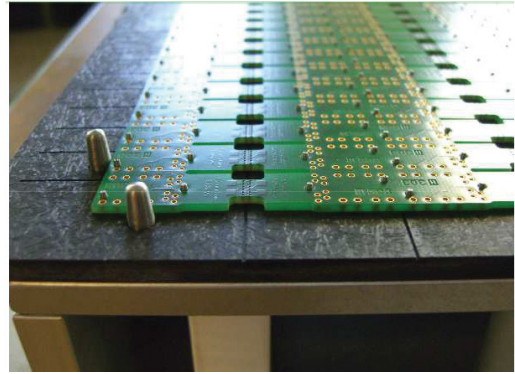
Routing unit

Optional equipment details:

- PCB vacuum preparation
- Additional depaneling module combined in one machine (shank or disc tool)
- Broken Tool Control
- Automatic tool exchange (4 stations, extendible)
- Ionization
- Adaptor encoding
- Printed circuit board suction and vacuum systems
- Code scanner
- Recognition of good and bad parts
- Traceability interface according to requirements specifications
- Customized data connection
- DXF conversion to executable DIN milling program
- Remote service
- **Camera Vision System** can, among other things, be equipped with teach-in function, repositioning, bar code, 2D code recognition, automated object recognition, fixture recognition and repositioning, color recognition (up to 10 colors)



Two-rail system



Multi PCB panel feeding

LOW 4233 D / 4233 R Technical specification

Machine

W x D x H	1,000 x 1,850 x 1,550 mm
Working height	930 - 1,050 mm
Weight	approx. 400 kg
Voltage	400 V / 50/60 Hz / 16 A
Compressed air	0.6 mPa (6bar), oil-free, filtered, dry
Consumption	approx. 70l/min on average
Ambient temperature	+18°C - + 30°C
Color	RAL 9002 / customized
Work Space	
Standard	420 x 330 mm
Mounting heighttop side max.	15 mm
bottom side max	40 mm
Tools	
Shank tools	> 0.8 - 3.175 mm /(1/8")
Rpm	> 60,000 rpm
Disc tools	0.3 - 0.8 mm
Disc tool	> 10,000 rpm
Depanelling Speed	
Shank tools	> 80 mm / sec.
Disc tools	> 250 mm / sec.
Positioning speed (x-y-z)	> 500 mm / sec.
Accuracy	
Positioning	+ 0.01 mm
Repeatability	+ 0.01 mm
Depanelling	< + 0.10 mm
Depanelling for full cut	< + 0.10 mm

Serie LOW 4233 XL

Semi-automatic and Stress-free Depanelling Basic Machine with Parallel- or Single-Shuttle

The highly dynamic depanelling machine LOW 4232 XL is in particular suited for medium to high product volumes and masters growing demands in the production process. PCB panels made of different materials will be depanelled by means of highly dust- and stress-reduced sawing and routing technology, providing utmost product flexibility, precision and throughput. Highly dynamic linear motor axes, tools and grippers meet highest demands in quality and guarantee a long lifecycle and reliability of the depanelling machine.

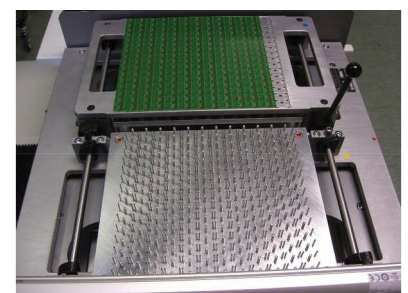


LOW 4233 XL with disc module and parallel shuttle

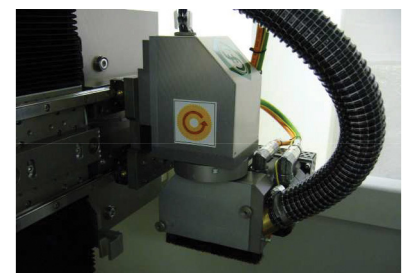
- Big work space: 700 x 400 mm
- Rigid welded steel frame
- Highly dynamic linear motor axes
- Quick product changes possible
- Flexible PCB fixation system
- Depanelling procedure with discs and/or shank tools
- Depanels any PCB material
- Laser measurement of axes
- Customized special sizes possible

Semi-automatic depanelling - customized solutions

The depanelling machine LOW 4232 XL enables quick product changes respecting at the same time short depanelling and handling times. Feeding is executed by the shuttle, the intake and fixation by the pin clamping fixture and, if required, in combination with vacuum suction unit. The high performance of the depanelling machine with standard cutting or routing module, fully automated cutting-edge processing, image-assisted teach-in camera system and two fixtures for PCB placement on work carrier can be extended by many customized adaptations and optional equipment (e.g. camera vision system). Precise laser measurement of the axes before putting the machine into operation is part of our individual customer service for all in-line and stand-alone depanelling systems of Systemtechnik Hölzer.



Multi PCB panel feeding



Disc depanelling module with vision system

Printed Circuit Board Feeding & Fixation

Printed circuit board feeding via parallel shuttle. Fixation centering pins and vacuum suction unit. Stabilization with retainer brush from above/below. Cap or mask or product-specific design. Painted circuit board torsion max. 1% of length or width respectively.

Dust extraction

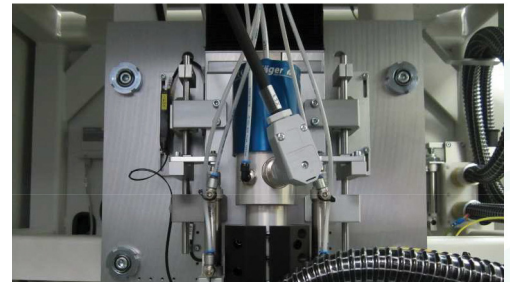
External dust ignition proof suction unit, H filter, automatic cyclical ded. Optional connection to central suction unit.

Multi axes system control

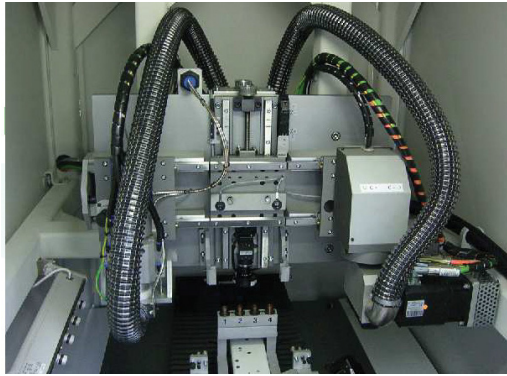
IPC control DIN program 66025,
Windows® XP/7, 12" Touch-screen Monitor
Path control (cutting/routing/drilling)

Optional equipment details:

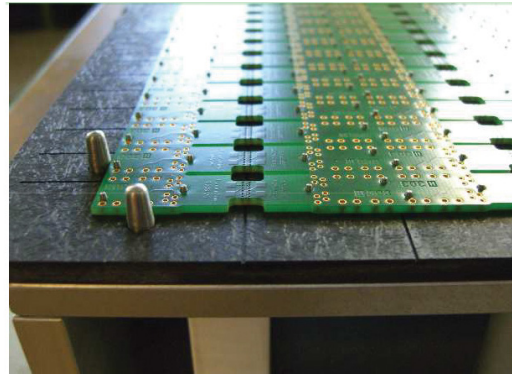
- PCB vacuum preparation
- Additional depaneling module combined in one machine (shank or disc tool)
- Broken Tool Control
- Automatic tool exchange (4 stations, extendible)
- Ionization
- Adaptor encoding
- Printed circuit board suction and vacuum systems
- Code scanner
- Recognition of good and bad parts
- Traceability interface according to requirements specifications
- Customized data connection
- DXF conversion to executable DIN milling program
- Remote service
- **Camera Vision System** can, among other things, be equipped with teach-in function, repositioning, bar code, 2D code recognition, automated object recognition, fixture recognition and repositioning, color recognition (up to 10 colors)



Routing unit



Two-rail system



Multi PCB panel feeding

LOW 4233 D XL / 4233 R XL / 4233 RD XL Technical specification

Machine

W x D x H	1.510 x 1.890 x 1.550 mm
Working height	930 - 1,050 mm
Weight	approx. 650 kg
Voltage	400 V / 50/60 Hz / 16 A
Compressed air	0.6 mPa (6bar), oil-free, filtered, dry
Consumption	approx. 70l/min on average
Ambient temperature	+18°C - + 30°C
Color	RAL 9002 / customized

Work Space

Standard	520 x 480 mm
Single-Shuttle (one carrier)	700 x 400 mm
Mounting heighttop side max.	15 mm
bottom side max	40 mm

Tools

Shank tools	> 0.8 - 3.175 mm /(1/8")
Rpm	> 60,000 rpm
Disc tools	0.3 - 0.8 mm
Disc tool	> 10,000 rpm

Depanelling Speed

Shank tools	> 80 mm / sec.
Disc tools	> 250 mm / sec.
Positioning speed (x-y-z)	> 500 mm / sec.
Accuracy	
Positioning	+ 0.01 mm
Repeatability	+ 0.01 mm
Depanelling	< + 0.10 mm
Depanelling for full cut	< + 0.10 mm

Serie INT 4646

Cost-efficient And Fully Automated Depanelling Disc- or Shank-Cutting Technology

The series INT 4646 unit offers powerful and profitable depanelling of printed circuit boards, ideal for high volumes and product variance. With dimensions of (B/T/H) 1.000 mm x 1.850 mm x 1.750 mm this in-line depanelling machine is among the most compact models granting fast, highly stress- and dust-reduced depanelling for all kinds of printed circuit boards.



- Sturdy welded steel frame
- Precise linear motor technology
- Integrated conveyor belt
- Flexible retainer technology
- Multiple PCB panel feeding
- Laser measurement of axes
- Optional: Tray Loader TL-6040
- Customized special solutions
- Low maintenance

INT 4646 D with disc-cutting module, PCB retainer, vision module as well as Multiple PCB feeding and tray loader TL-6040 for single PCB stacking in trays

In-line Depanelling - Quality in Every Detail

Except for the space requirements, we did not save on performance and quality for the in-line series 4646. A low-vibration welded steel frame, precise linear motor technology with high resolution measuring system and application of high-quality tools grant a long life-cycle.

The depanelling machine is equipped with a width-adjustable conveyor belt, an integrated image-assisted teach-in camera system, a panel fixation vacuum unit and/or pin clamping fixture, disc- or shank-cutting technology with fully automated cutting-edge processing and integrated subsequent cleaning and disposal of leftover frames.

Machine capability covers all requirements for contemporary and future assembly production.



Multiple/single PCB retainer with PCB depanelling feeder



Automated faulty part removal gripper or suction unit respectively

Printed Circuit Board Feeding & Fixation

Printed circuit board feeding via parallel shuttle. Fixation centering pins and vacuum suction unit. Stabilization with retainer brush from above/below. Cap or mask or product-specific design. Painted circuit board torsion max. 1% of length or width respectively.

Single PCB Panel Removal

Mechanic or single-vacuum or multi gripper for position-based stacking in trays, on workpiece carrier or on conveyor

Dust extraction

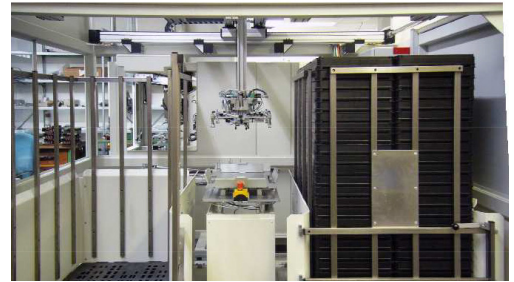
External dust ignition proof suction unit, H filter, automatic cyclical ded. Optional connection to central suction unit.

Multi axes system control

IPC control DIN program 66025,
Windows® XP/7, 12" Touch-screen Monitor
Path control (cutting/routing/drilling)

Optional equipment details:

- PCB vacuum preparation
- Additional depaneling module combined in one machine (shank or disc tool)
- Broken Tool Control
- Automatic tool exchange (4 stations, extendible)
- Ionization
- Adaptor encoding
- Printed circuit board suction and vacuum systems
- Code scanner
- **Transport and Stacking units, e.g. tray loader TL-6040**
- Recognition of good and bad parts
- Traceability interface according to requirements specifications
- Customized data connection
- DXF conversion to executable DIN milling program
- Remote service
- **Camera Vision System** can, among other things, be equipped with teach-in function, repositioning, bar code, 2D code recognition, automated object recognition, fixture recognition and repositioning, color recognition (up to 10 colors)



Customized removal: XL tray loader



Printed circuit board feeding with cutting unit



Automated Printed circuit board feeding with cutting unit removal into tray

INT 4646 D / 4646 R Technical specification

Machine

W x D x H	1,000 x 1,850 x 1,750 mm
Working height	930 - 1,050 mm
Weight	approx. 700 kg
Voltage	400 V / 50/60 Hz / 16 A
Compressed air	0.6 mPa (6bar), oil-free, filtered, dry
Consumption	approx. 70l/min on average
Ambient temperature	+18°C - + 30°C
Color	RAL 9002 / customized

Work Space

Standard	460 x 460 mm
Mounting heighttop side max.	15 mm
bottom side max	40 mm

Tools

Shank tools	> 0.8 - 3.175 mm /(1/8")
Rpm	> 60,000 rpm
Disc tools	0.3 - 0.8 mm
Disc tool	> 10,000 rpm

Depanelling Speed

Shank tools	> 80 mm / sec.
Disc tools	> 250 mm / sec.
Positioning speed (x-y-z)	> 2000 mm / sec.

Accuracy

Positioning	+ 0.01 mm
Repeatability	+ 0.01 mm
Depanelling	< + 0.10 mm
Depanelling for full cut	< + 0.10 mm

Serie LOW 7050 SR-SD

Semi-automatic and stress-free Depanelling Basic Machine with Parallel routers or saws for Double speed

The highly dynamic depanelling machine LOW 7050 SR-SD is **in particular** suited for **high product volumes** and masters growing demands in the production process. PCB panels made of different materials will be depanelled by means of highly dust- and stress-reduced **sawing and routing technology**, providing utmost product flexibility, precision and throughput. Highly dynamic linear motor axes, tools and grippers meet highest demands in quality and guarantee a long lifecycle and reliability of the depanelling machine. **Double speed through 2 parallel working routing or sawing heads.**



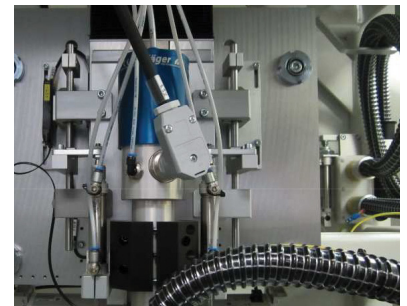
- Big work space: 700 x 500 mm for each shuttle
- 2 parallel working depaneling modules
- Rigid welded steel frame
- Highly dynamic linear motor axes
- Quick product changes possible
- Flexible PCB fixation system
- Depanelling procedure with discs and/or shank tools
- Depanels any PCB material
- Laser measurement of axes
- Customized special sizes possible

LOW 7050 DR-SD with sawing modules and parallel shuttle

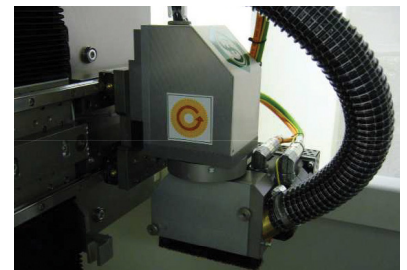
Semi-automatic depanelling - customized solutions

The depanelling machine LOW 7050 SR-SD enables **high product volumes through the 2 parallel working routing or sawing units** respecting at the same time short depanelling and handling times. Feeding is executed by the shuttle, the intake and fixation by the pin clamping fixture and, if required, in combination with vacuum suction unit.

The high performance of the depanelling machine with standard cutting or routing module, fully automated cutting-edge processing, image-assisted teach-in camera system and two fixtures for PCB placement on work carrier can be extended by many customized adaptations and optional equipment (e.g. camera vision system). Precise laser measurement of the axes before putting the machine into operation is part of our individual customer service for all Systemtechnik depanelling systems.



routing module



sawing module

Printed Circuit Board Feeding & Fixation

Printed circuit board feeding via parallel shuttle. Fixation centering pins and vacuum suction unit. Stabilization with retainer brush from above/below. Cap or mask or product-specific design. Painted circuit board torsion max. 1% of length or width respectively.

Dust extraction

External dust ignition proof suction unit, H filter, automatic cyclical ded. Optional connection to central suction unit.

Multi axes system control

IPC control DIN program 66025,
Windows® XP/7, 12" Touch-screen Monitor
Path control (cutting/routing/drilling)



2 shuttles

Optional equipment details:

- PCB vacuum preparation
- Additional depaneling module combined in one machine (shank or disc tool)
- Broken Tool Control
- Automatic tool exchange (4 stations, extendible)
- Ionization
- Adaptor encoding
- Printed circuit board suction and vacuum systems
- Code scanner
- **Transport and Stacking units, e.g. tray loader TL-6040**
- Recognition of good and bad parts
- Traceability interface according to requirements specifications
- Customized data connection
- DXF conversion to executable DIN milling program
- Remote service
- **Camera Vision System** can, among other things, be equipped with teach-in function, repositioning, bar code, 2D code recognition, automated object recognition, fixture recognition and repositioning, color recognition (up to 10 colors)



Two-rail system



Multi PCB panel feeding

LOW 7050 SD / 4233 SR Technical specification

Machine

W x D x H	1.510 x 2.225 x 1.820 mm
Working height	930 - 1,050 mm
Weight	approx. 650 kg
Voltage	400 V / 50/60 Hz / 16 A
Compressed air	0.6 mPa (6bar), oil-free, filtered, dry
Consumption	approx. 70l/min on average
Ambient temperature	+18°C - + 30°C
Color	RAL 9002 / customized

Work Space

Standard	700 x 500 mm
Mounting heighttop side max.	15 mm
bottom side max	40 mm

Tools

Shank tools	> 0.8 - 3.175 mm /(1/8")
Rpm	> 60,000 rpm
Disc tools	0.3 - 0.8 mm
Disc tool	> 10,000 rpm

Depanelling Speed

Shank tools	> 80 mm / sec.
Disc tools	> 250 mm / sec.
Positioning speed (x-y-z)	> 700 mm / sec.

Accuracy

Positioning	+ 0.01 mm
Repeatability	+ 0.01 mm
Depanelling	< + 0.10 mm
Depanelling for full cut	< + 0.10 mm

Serie INM 4040

Stand-alone or In-line PCB marking system

The marking system INM 4040 labels printed circuit boards of different surface colorizations with inkjet, laser and / or labels with barcodes, 2D matrix codes or other imprints. Both technologies can be integrated in this system for sequential application or can be employed as individual units. The marking process is performed from TOPSIDE, while the x/y-coordinated table pilots the PCB.



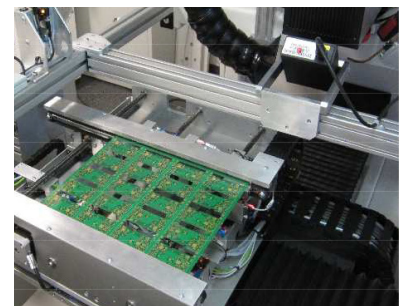
- Sturdy welded steel frame
- Precise linear motor technology
- Quick product changes possible
- Flexible PCB fixation system
- Marking with laser and/or Ink-Jet
- Marking of each PCB material
- Laser measurements of axis
- Customized special solutions

LOW 7050 DR-SD with sawing modules and parallel shuttle

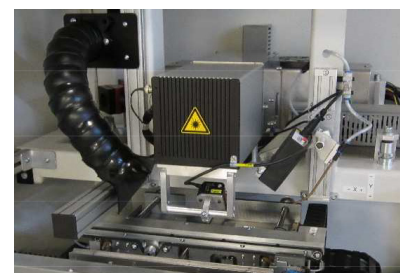
PCB - Marking

The marking machine INM 4040 enables quick product changes respecting at the same time short marking and handling times. Feeding is executed by the belt with fixation and belt with width adjustment. The newly developed central support ensures a consistent quality of marking on large printed circuit board formats.

The high performance of the marking machine with standard laser- or inkjet-module, belt with width adjustment, integrated image-assisted teach-in camera system can be extended by many customized adaptations and optional equipment (e.g. camera vision system). Precise laser measurement of the axes before putting the machine into operation is part of our individual customer service for all in-line and stand-alone systems of Systemtechnik Hölzer.



Beltsystem with central support



CO² - Laser-unit

PCB Feeding & Fixation

Feeding on infeed conveyer
 Fixation of PCB with clamping unit
 Variable transport direction left / right
 PCB torsion max. 1% of length or width

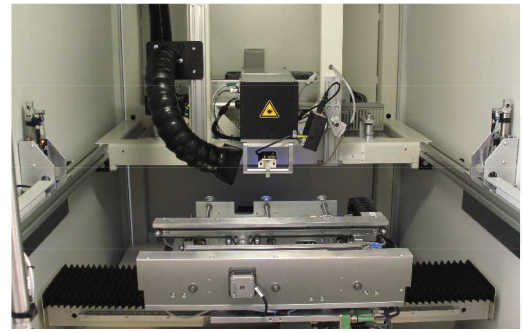
Dust extraction

External fume/dust vacuum unit with
 activated carbon filter

Multi axes system control

IPC-control DIN-language 66025,
 Windows® 7 professional, 12" Touchscreen Monitor
 Path control (cutting/milling/drilling)

- Big work space: 700 x 500 mm for each shuttle
- 2 parallel working depaneling modules
- Rigid welded steel frame
- Highly dynamic linear motor axes
- Quick product changes possible
- Flexible PCB fixation system
- Depanelling procedure with discs and/or shank tools
- Depanels any PCB material
- Laser measurement of axes
- Customized special sizes possible



INM 4040 interior



INM 4040 with laser- and Ink-Jet

INM 4040 Technical specification

Machine		Work Space	
B x T x H	1.000 x 1.750 x 1.750 mm	Standard	400 x 400 mm
Working height	930 - 1.050 mm	Board thickness	0,5 - 3,2 mm
Weight	ca. 600 kg	Mounting height top side max	75 mm
Voltage	400 V / 50/60 Hz / 16 A	bottom side max.	25 mm
Compressed air	0,6 mPa (6bar), oil-free, filtered, dry	Tools	
Consumption	approx. 20 l/min	Shank tools	0,8 - 2,4 mm
Ambient temperature	+18°C - + 30°C	Clamping diameter	1/8"
Color	RAL 9002 / customized	Rpm	> 60.000 U/min
Laser		Accuracy	
CO ² - source	10 W	Positioning	+ 0,01 mm
Operating area	110 x 110 mm	Repeatability	+ 0,015 mm
Slot size 1 / e ²	290 μm		
Focal distance	180 ±3 mm		

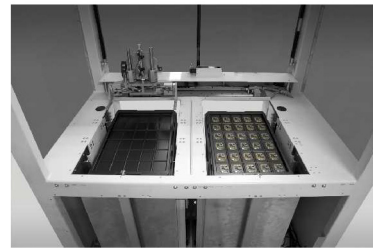
Serie Tray Loader

Palletizer for Tray-Handling

Tray Loader TL 6040- 2-track loading and unloading module for the economic transport of trays (boxes) for PCBs. The empty trays are removed from the trolley, automatically positioned and prepared for loading. After filling the tray is destacked automatically on the second trolley.



- Compact design
- Loading and unloading unit
- trolley
- Standard-Tray size: 400 x 600 mm
- Sturdy welded steel frame
- Customized special solutions



Optional equipemt details:

- Recognition of tray
- individual size of tray (format and finish)
- ESD compliant
- Additional trolley



INM 4040 Technical specification

Machine		Work space	
W x D x H	840 x 1.850 x 1.750 mm	Tray size	600 x 400 mm
Working height	930 - 1.050 mm		
Weight	approx. ca. 300 kg		
Voltage	230 V / 50/60 Hz / 16 A		
Compressed air	0,6 mPa (6bar), oil-free, filtered, dry		
Consumption	approx. ca. 10l/min		
Ambient temperature	+18°C - + 30°C		
Color	RAL 9002 / customized		

Panel Holders

Devices for PCB handling and depaneling

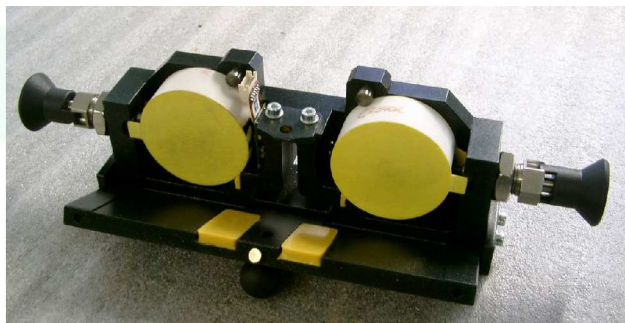
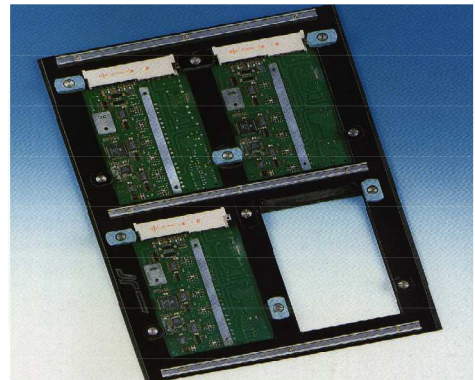
Devices for PCB handling and depaneling, PCB soldering frames and pouring devices. By the requirements of our customers we acquired a large know-how in the range of

- PCB handling and depaneling devices
- PCB handling grippers
- PCB Soldering frames / masks

Considerable manufactures use our products to their fullest satisfaction.

New constructions, preparations and repairs. We make your devices in a short time and in a payable cost-use-frame.

We like to be your future partner for all PCB handling equipment



Cooling for soldering frameworks

Exhaust



**After leaving the soldering machine the framework is still hot ?
With our auxiliary exhaust not any longer.**

- Best cost-performance ratio
- Mounting to each soldering machine
- Fast positioned ventilation
- Simple self assembly
- Locally demonstration on request
- Immediate reemployment of the soldering framework
- Maximum achievement and flexibility

Technical specification

Performance data: type ZL 650

Connection	230Vac/50Hz
Weight	ca. 8kg
Air flow	650 cbm/h
Power	0,3 A
Voltage	60W
Noice	54dB(A)
Measures	
HxBxT	171,5 mm x 650 mm x 141,5mm

Performance data: type ZL 1300

Connection	230Vac/50Hz
Weight	ca. 8kg
Air flow	1300 cbm/h
Power	1,2 A
Voltage	270W
Noice	71dB(A)
Measures	
Width of the air outlet opening	500mm



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