

PCB Depanelling Machine

LOW 4233

SHANK AND / OR DISC
BASICMACHINE with parallel shuttle in/out

The Serie LOW depanelling platform alternatively detached the assembled PCBs with shank- and /or disc- tools. Both technologies can be combined. The singulation process is performed from TOPSIDE, while the x/y-coordinates table pilots the assembled PCB. The PCB high mounting components are placed face downwards.

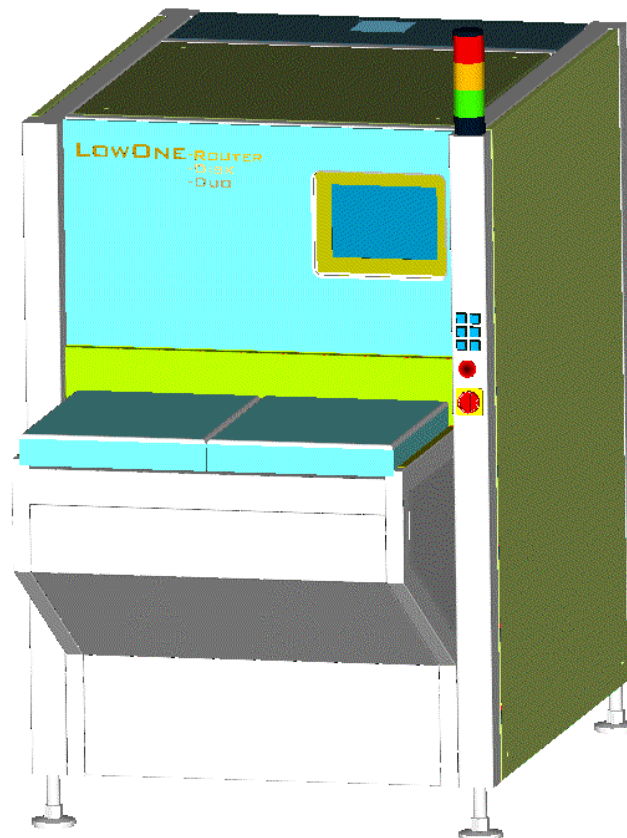


Abb. LOW 4233
with combined
shank and disc
cutting modul,
parallel loader

- Best lifetime price / performance ratio
- Machine ability covers all PCB's requirement up-to-date and of future
- Rapid PCB-positioning – non-moving spindle-unit
- Fast, highly stress- and dust-reduced depanelling of all PCB-layouts, pre-scored, pre-routed or non-preworked
- No rework by brushes, dust exhaust or blow-off necessary
- Maximum flexibility and yield, form batch size 1 to mass-production
- Vision module for teach in programming and automated object recognition

Maschinenbau • Werkzeugbau • Luftlagertechnologie



Technical specifications LOW 4233

Machine

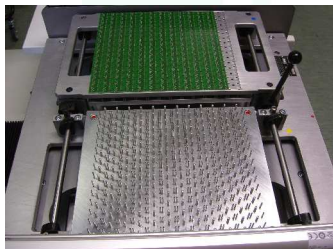
W x DT x H	1000 x 1.250 x 1.550 mm
Working height	930 – 1.050 mm
Weight	ca. 850 kg
Current	400 / 230 V / 50/60 Hz / 32 A
Compressed air	0,6 mPa (6bar), oilfree
Air need	appr. 70 l/min
Ambient temperature	+ 18 °C - + 30°C
Color	RAL 9002 / customer specific

Work space

Standard panelsize	420 x 330 mm or customer specific
Mounting height top side max.	15 mm
Bottom side max	40 mm or customer specification

PCB fixation

PCB resting with tooling holes in centering-pins and on supporting pins in unpopulated areas, if required in combination with vacuum pins. Stabilization from top with spindle pressure foot brush or cover



Tools

Shank tools	0,8 – 3,175 mm / (1/8")
Shank spindle	up to 24.000 U/min
Disc tools	0,3 – 0,8 mm
Disc spindle	up to 10.000 U/min

Depanelling speed

Shank tools	up to 80 mm / sec.
Disk tools	up to 250 mm / sec.
Positioning speed	up to 500 mm / sec.

Accuracy

Positioning	± 0,02 mm
Repeatability	± 0,02 mm
Depanelling	< ± 0,15 mm

System CPU

IPC-control DIN-program 66025
Path control (routing/sawing)
Windows® XP user interface, 12" touch-screen-monitor

Options

Manual loading with shuttle-system
Single- or Twin-Spindle (2 x shank / disc)
quick-tool easy demountable jig, PCB vacuum-fixation
Broken bit control
Automated tool change – 4 stations
Vision-System for automated object recognition/Teach-in
Good-/bad recognition
Traceability-Interface
PCB pass / rejects processing

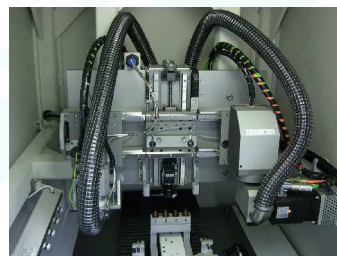
remote service

DIN 66025 program-converter

Interface– Smema or customer specific

Dust extraction

External dust-explosion protected vacuum unit, with intelligent Tool valve, suction-monitoring
Optionally connection to central dust-extraction system.



The machine meets viable rating of local safety regulations.

CE, EMV, ESD, accident prevention

Operating noise	<= 75 db (A)
Ambient temperature	+18°C-+ 30°C
Operating stand-by capability	>98%
Machine qualifying references	Standard

LCIA – LOW COST INTELLIGENT AUTOMATION

Maschinenbau • Werkzeugbau • Luftlagertechnologie