For cross sectional analysis of printed circuit boards Flexicut is the ideal flexible machine. 1 machine, 3 sectioning modes.
A machine designed for sectioning circuit boards

PCB (Printed Circuit Boards): the multiplicity of formats, soldering techniques, conductivity systems, are various cases that need dedicated tools. Presi created FLEXICUT, a versatile cutting machine designed for the sectioning requirements in the production quality control of printed circuit boards. With its versatility, it is also suited to a variety of other metallographic cutting applications.
**FUNCTIONING**

**INTUITIVE**

Thanks to the color and multilingual touch screen, Flexicut is programmable for easier use. Centralized commands allow quick access to the main functions of the machine.

**ERGONOMIC**

The Flexicut is intended to be connected with an air extractor.

**ROBUST**

The Flexicut offers a wide workspace 390 x 200mm. Robust with an ultra-rigid frame and stainless steel table. Maintenance is facilitated by self-cleaning guide rails.

*This illustration of the cutting envelope of the FLEXICUT is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.*
3 CUTTING WAYS

MODE: FORWARD MOVEMENT STAGE FOR PCB CUTS

MODE: FIXED STAGE FOR PCB CUTS

MODE: MICRO CUTTING MACHINE
CHARACTERISTICS

HOOD
Type
PETG enclosure with metal hinges
Safety
Closure switch to cut off motor when hood opened

POWER SUPPLY
Power
575 W
Power supply
220 V / Single phase / 50 Hz-110 V / Single phase / 60 Hz

DISC CUT WHEELS
Type of disc-cut wheels
Resin bonded and metal bonded
Cut-off wheel size range
From Ø 75 to Ø 180mm-Ø 200mm for PCB cutting
Rotation speed
From 300 to 2,500 RPM-Option: slow speed kit from 100 to 1,200 RPM
Arbor size
12.7mm

CONTROL
Control Interface
Color touch control screen
Security Access
Can activate password protection

CUTTING
Cutting method
Manual or by gravity (Weight/counter-Weight)
Type of table movement
Fixed or moving table options (Y axis) for PCB sectioning
Y axis range
Length of Y axis traverse 230mm
X axis range
100mm X-axis movement of the sample carrier arm
Table dimensions
Fixed table option 390 x 200mm
Moving table option 390mm x 200mm (15” x 8”)
Table material
Option table with longitudinal movement- micro-rollers stainless steel table
Holders
Sample carrier arm will accept a wide variety of holders

LUBRICATION-Cooling
Pump & tank
Integrated-Capacity 2 L
Type of lubrication
Recirculating pump or drag feed
Method of directing pumped coolant
A single alignable nozzle
Type of filtration
Exchangeable paper filters

ERGONOMICS
Spray nozzle for cleaning
Integrated

CONFORMITY
Conformity
EC

ACCESSORIES

Sample chucks
51715
V Shaped sample chuck
51717
Vice chuck for longitudinal cuts
51713
Chuck for small samples (Vice Type)
51156
Orientable chuck (to be used with aluminium plates (Ref. 51162 and 51163)
51714
Chuck for cylindrical sample
51716
Irregular shaped sample chuck
51718
Special tool for angle cut
51162-51163
Set of 5 Aluminium plates 60 x 25mm and 40 x 25mm for samples sticking

Tables and positioning
51801
Forward movement stage for PCB Cuts
51802
Fixed stage for PCB cuts

Flanges
51710
Set of 2 flanges Ø 35 mm for wheel Ø 75 to 100 mm
51711
Set of 2 flanges Ø 50mm for wheel Ø 100 to 150 mm
51712
Set of 2 flanges Ø 75mm for wheel Ø 150 to 180mm

Other accessories
51720
Low speed kit 100 to 1 200 RPM T180/Flexicut
51730
Self lighting LED on magnetic base
### STANDARD RESINOID CUT-OFF WHEELS

<table>
<thead>
<tr>
<th>REF.</th>
<th>DESIGNATION</th>
<th>DIAMETER</th>
<th>HARDSNESS</th>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>01040</td>
<td>Type A abrasive Al₂O₃ (ferrous materials)</td>
<td>Ø 100 x 0.3 x 12.7mm</td>
<td>100 - 350 Hv</td>
<td>Low carbon, mild and extra mild and treated steels with medium cross-sections</td>
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<tr>
<td>01046</td>
<td>Type AO abrasive Al₂O₃ (ferrous materials)</td>
<td>Ø 125 x 0.5 x 12.7mm</td>
<td>100 - 500 Hv</td>
<td>Low carbon, mild and extra mild and treated steels with medium cross-sections</td>
</tr>
<tr>
<td>01043</td>
<td>Type AOF abrasive Al₂O₃ (ferrous materials)</td>
<td>Ø 150 x 0.5 x 12.7mm</td>
<td>100 - 500 Hv</td>
<td>Low carbon, mild and extra mild and treated steels with medium cross-sections</td>
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<tr>
<td>01002</td>
<td>Type AOF II abrasive Al₂O₃ (ferrous materials)</td>
<td>Ø 200 x 1.6 x 25.4mm*</td>
<td>80 - 300 Hv</td>
<td>Rubber bonded cut-off wheel, thin section cutting, low cross-section sintered steels, hard metal layers</td>
</tr>
<tr>
<td>01041</td>
<td>Type C abrasive SiC (non ferrous materials)</td>
<td>Ø 100 x 0.3 x 12.7mm</td>
<td>30 - 350 Hv</td>
<td>Aluminium, copper and alloys, non ferrous metals, titanium and alloys</td>
</tr>
<tr>
<td>01005</td>
<td>Type MNF abrasive SiC (non ferrous materials)</td>
<td>Ø 200 x 1.6 x 25.4mm*</td>
<td>30 - 350 Hv</td>
<td>Aluminium, copper and alloys, non ferrous metals, titanium and alloys</td>
</tr>
<tr>
<td>01060</td>
<td>Type SiC abrasive SiC</td>
<td>Ø 180 x 0.5 x 25.4mm*</td>
<td>450 - 700 Hv</td>
<td>Treated steels, with fragile coatings, difficult materials</td>
</tr>
</tbody>
</table>

* To be used with reduction ring (Ref. 51324)

### DIAMOND CUT-OFF WHEELS

<table>
<thead>
<tr>
<th>REF.</th>
<th>DESIGNATION</th>
<th>DIAMETER</th>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>02030</td>
<td>Type LM</td>
<td>Ø 75 x 0.3 x 12.7mm</td>
<td>Ceramics, composites, tungsten carbide, alumina, sintered carbides</td>
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<tr>
<td>02031</td>
<td>Type LM+</td>
<td>Ø 100 x 0.3 x 12.7mm</td>
<td>Ceramics (large sections), tungsten carbide, silicon carbide, plasma deposit, mounted samples, refractory materials, minerals, concretes</td>
</tr>
<tr>
<td>02034</td>
<td>Type LR</td>
<td>Ø 75 x 0.5 x 12.7mm</td>
<td>Composites, plasma deposit, ceramics, electronic components</td>
</tr>
<tr>
<td>02035</td>
<td>Type LR</td>
<td>Ø 100 x 0.5 x 12.7mm</td>
<td>Composites, plasma deposit, ceramics, electronic components</td>
</tr>
<tr>
<td>02036</td>
<td>Type LR</td>
<td>Ø 125 x 0.5 x 12.7mm</td>
<td>Composites, plasma deposit, ceramics, electronic components</td>
</tr>
<tr>
<td>02037</td>
<td>Type LR</td>
<td>Ø 150 x 0.6 x 12.7mm</td>
<td>Composites, plasma deposit, ceramics, electronic components</td>
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<tr>
<td>02038</td>
<td>Type LR</td>
<td>Ø 175 x 0.9 x 12.7mm</td>
<td>Composites, plasma deposit, ceramics, electronic components</td>
</tr>
<tr>
<td>02040</td>
<td>Type LR</td>
<td>Ø 200 x 0.9 x 25.4mm*</td>
<td>Composites, plasma deposit, ceramics, electronic components</td>
</tr>
<tr>
<td>02041</td>
<td>Type LR</td>
<td>Ø 200 x 0.9 x 32mm*</td>
<td>Composites, plasma deposit, ceramics, electronic components</td>
</tr>
<tr>
<td>02057</td>
<td>Type LM</td>
<td>Ø 75 x 0.3 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02058</td>
<td>Type LM+</td>
<td>Ø 100 x 0.3 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02064</td>
<td>Type LR</td>
<td>Ø 75 x 0.5 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02065</td>
<td>Type LR</td>
<td>Ø 100 x 0.5 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02066</td>
<td>Type LR</td>
<td>Ø 125 x 0.5 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02067</td>
<td>Type LR</td>
<td>Ø 150 x 0.6 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02068</td>
<td>Type LR</td>
<td>Ø 175 x 0.9 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02069</td>
<td>Type LR</td>
<td>Ø 200 x 0.9 x 25.4mm*</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02070</td>
<td>Type LR</td>
<td>Ø 200 x 0.9 x 32mm*</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
</tbody>
</table>

LM | Metallic bond. Very polyvalent cut-off wheel, normal concentration, to cut hard materials such as: ceramics, composites, tungsten carbide, alumina, sintered carbides. |

LM+ | Metallic bond. High concentration disc to cut hard materials such as: ceramics (large sections), tungsten carbide, silicon carbide, plasma deposit, mounted samples, refractory materials, minerals, concretes… |

LR | Resin bond. High concentration disc, advised when you want the best cutting quality. To cut hard and fragile materials: composites, plasma deposit, ceramics, electronic components… |

### BORON CARBIDE CUT-OFF WHEELS

<table>
<thead>
<tr>
<th>REF.</th>
<th>DESIGNATION</th>
<th>DIAMETER</th>
<th>MATERIALS</th>
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</thead>
<tbody>
<tr>
<td>02059</td>
<td>Type NB</td>
<td>Ø 75 x 0.5 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
</tr>
<tr>
<td>02060</td>
<td>Type NB</td>
<td>Ø 100 x 0.5 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
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<tr>
<td>02056</td>
<td>Type NB</td>
<td>Ø 125 x 0.5 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
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<tr>
<td>02065</td>
<td>Type NB</td>
<td>Ø 150 x 0.6 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
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<tr>
<td>02085</td>
<td>Type NB</td>
<td>Ø 175 x 0.9 x 12.7mm</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
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<tr>
<td>02069</td>
<td>Type NB</td>
<td>Ø 200 x 0.9 x 25.4mm*</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
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<tr>
<td>02070</td>
<td>Type NB</td>
<td>Ø 200 x 0.9 x 32mm*</td>
<td>Cast irons, treated steels, hard and high speed steels</td>
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</tbody>
</table>

* To be used with reduction ring (Ref. 51311)

### PRESI IS ALSO…

- Mecatome ST 310
- Poly’Vac
- Mecatech 334
- Microtech MX 1
- Resins