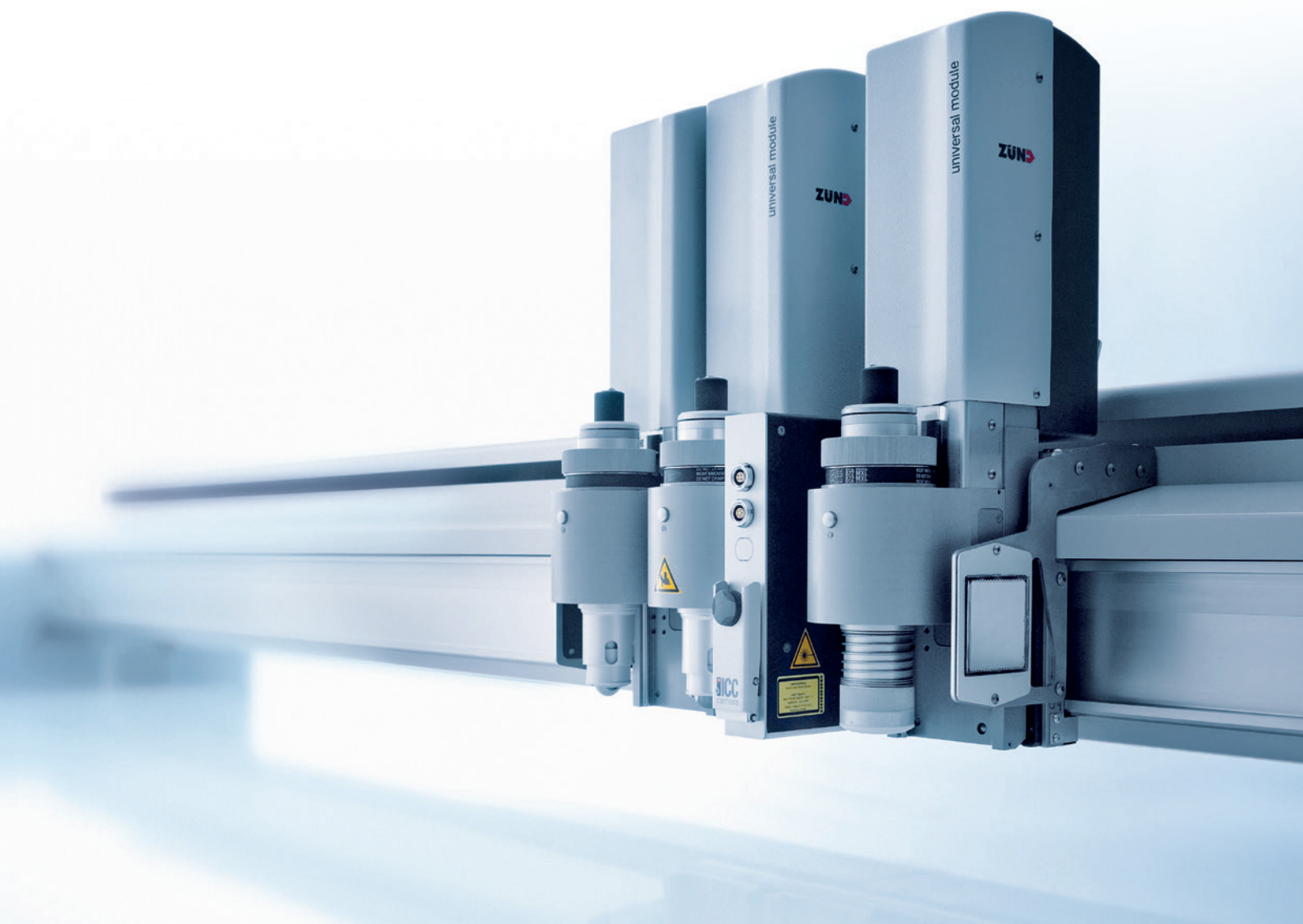


# Modules, tools, and applications

## Zünd Digital Cutter



Your first choice in digital cutting.

# Cutting

## Electric Oscillating Tool – EOT



High-frequency oscillating tool for soft and medium-density materials.

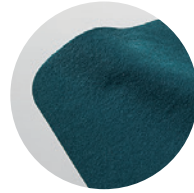
- Depending on application, available with 0.5mm or 1.0mm stroke
- Perfect for cutting detailed contours
- Very high stroke frequency
- High processing speeds
- Compatible with **G3, S3, L3, D3**



Foamcore



Leather



Felt



3D signage



Shoes



Handbags

## Electric Oscillating Tool – EOT-250



Powerful tool with high-performance electric drive for processing thick cardboard and leather materials.

- 2.5mm stroke
- Very high processing speeds
- Wide range of Zünd oscillating blades available
- Compatible with **G3, S3, L3, D3**



Sandwich board



Folding carton



Leather



Furniture



3D displays



Shoes

## Pneumatic Oscillating Tool – POT



Powerful oscillating tool with extended stroke for cutting tough, dense materials up to 50mm / 4.3in thick.

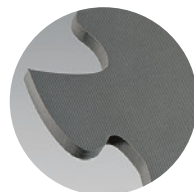
- Powerful oscillation with 8mm stroke
- Robust, maintenance-free pneumatic drive
- Two versions available for 0.6mm or 1.5mm blade thicknesses
- Compatible with **G3, S3, L3, D3**



Foam



Corrugated cardboard



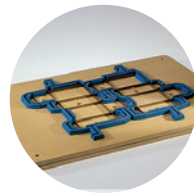
Rubber



Foam inserts



Containers



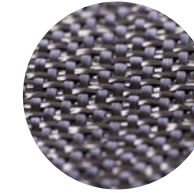
Cutting dies

## Power Rotary Tool – PRT

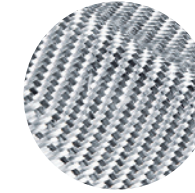


Robust, powerful tool for technically demanding textiles, carbon and glass fiber materials.

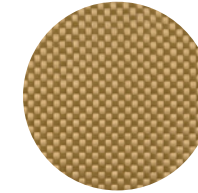
- Use of rotary blades reduces drag force
- Choice of 3 RPM levels (16.000/12.000/8.000)
- Low-impact processing of materials with low melting points
- High throughput and clean, precise cuts
- Compatible with **G3, D3**



Carbon fiber



Glass fiber



Aramid fiber



Automotive industry



Aerospace industry



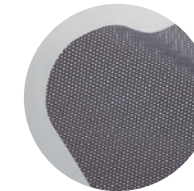
Defense industry

## Driven Rotary Tool – DRT



Tool for processing technical textiles and fabrics. The motor-driven rotary blade allows for very high processing speeds.

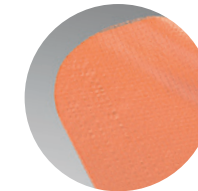
- Use of rotary blades reduces drag force
- Choice of 2 RPM levels (20.000/12.000)
- Clean separation of each individual fiber
- Compatible with **G3, S3, L3, D3**



Netting



Acrylic



Balloon silk



Building wraps



Awnings



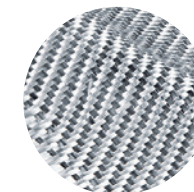
Air dancers

## Wheel Knife Tool – WKT



Low-maintenance tool for processing single-ply glass and carbon fiber as well as technically demanding textiles.

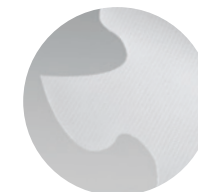
- High cutting speeds
- Uses rotary, high-speed steel blades (HSS)
- Processing possible without vacuum hold-down
- Clean and efficient processing method
- Special polyurethane (PU) cutting underlay
- Compatible with **G3, D3**



Glass fiber



Sail cloth



PVC



Wind turbine blades



Sails



Shade sails



## Universal Cutting Tool – UCT



Universal cutting tool for materials up to 5mm thick.

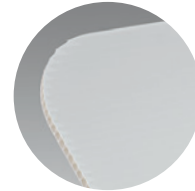
- Wide range of drag knives in Zünd accessory range
- Very high processing speeds
- Compatible with **G3**, **S3**, **L3**, **D3**



Magnetic materials



Folding carton



Honeycomb



Magnets



Packaging



Corrugated box

## Scoring Cutting Tool – SCT



Combination tool for scoring and cutting cardboard and coating blankets up to 5mm thick.

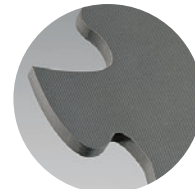
- Very high processing speeds
- The blade is extended/retracted pneumatically
- Can be used with all flat-stock drag knives Zünd offers
- Spring-loaded glideshoe available as option
- Compatible with **G3**, **S3**, **D3**



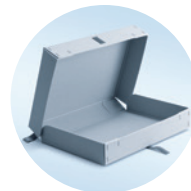
Folding carton



Printing blankets



Rubber



Archiving boxes



Printing blankets



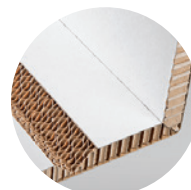
Cutting dies

## V-Cut Tool – VCT

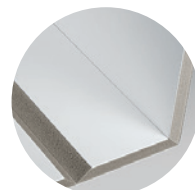


Tool with seven different cutting angles. Capable of producing complex structural designs from foamcore or honeycomb display board materials.

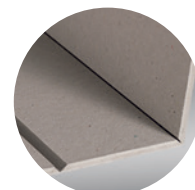
- Simple, precise angle settings
- Cuts materials up to 16mm / .63 in thick at different angles (0°, 5°, 10°, 15°, 22.5°, 30°, 45°)
- Very quick blade changes
- Compatible with **G3**, **S3**, **D3**



Sandwich board



Foamcoreboards



Folding carton



Furniture



Trade-show booth



POP displays

## Passepartout Tool – PPT

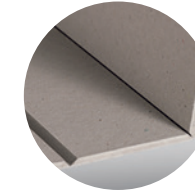


Precise, consistently high-quality 45° angle cuts.

- Precise control of cutting depth
- Adjustment gauge included
- Processes cardboard and polymer materials up to 5mm / .19 in thick
- Compatible with **G3**, **S3**, **D3**



Cardboard



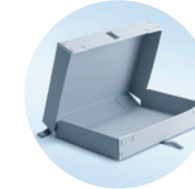
Gray board



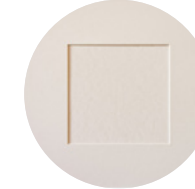
Folding carton



Picture frames



Archiving boxes



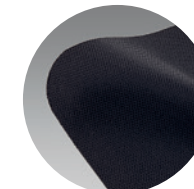
Picture mats

## Laser Module – LM 100W



Laser module for cutting polyester fabrics and simultaneously sealing edges (Cut & Seal).

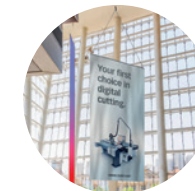
- CO<sub>2</sub> 100W laser
- For polyestertextiles, thicknesses up to 2mm
- Sealed edges prevent fraying
- Class 1 laser (safe under all conditions of normal use)
- Compatible with **G3**



Polyester textiles



Roll-ups



Flags, banners



Exhibits, displays

# Kiss-Cutting

## Kiss-Cut Module – KCM-S

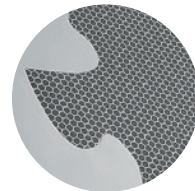


Accurate kiss-cutting through precise, electronically controlled cutting pressure.

- Kiss-cutting and through-cutting of all commonly used vinyl/films
- Clean separation of self-adhesive vinyl without damage to liner material
- Compatible with **S3**



Decorative films



Reflective films



Self-adhesive vinyls



Vinyl graphics



Traffic signs



Vehicle graphics

## Kiss-Cut Tool – KCT



Kiss-cutting tool with adjustable pressure for processing many different types of vinyl.

- Two processing methods:  
Kiss-Cut + Through-cut
- Max. material thickness: 3 mm
- Precise control of cutting depth
- Clean separation of vinyl from liner material
- Special glideshoe available for processing Diamondgrade vinyl
- Compatible with **G3, S3, D3**

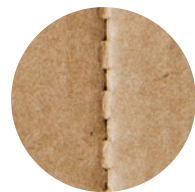
# Perforating

## Perforating Tool Type 1 – PTT1

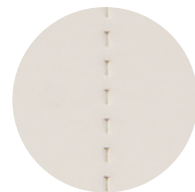


Ideal tool for creating precise perforations.

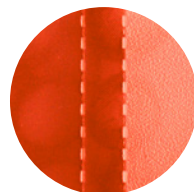
- Suitable for e.g. wallpaper, folding carton, polypropylene, films
- High-quality perforating
- High processing speed
- Wide range of perforating knives available from Zünd
- Compatible with **G3, S3, D3**



Corrugated cardboard



Folding carton



Polypropylene



Folded box



Tissue box



Business card wallet

# Creasing

## Creasing Tool Type 1 – CTT1



The CTT1 is the optimal tool for processing single-wall corrugated board.

- Creases without tearing
- Pressure settings are individually controllable, with or against the corrugation
- Crease wheels simply snap in place in the tool holder
- Crease wheel diameter: 61 mm / 2.4 in
- Crease wheel width: 20 mm / .79 in
- Compatible with **G3, S3, D3**



Corrugated cardboard, single-wall



Containers, boxes, packaging

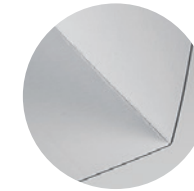


## Creasing Tool Type 2 – CTT2

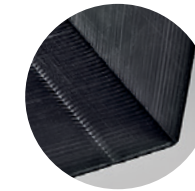


Universal creasing tool for polypropylene, carton, or honeycomb materials.

- Creases without tearing
- Individually controllable pressure settings
- Compatible with **G3, S3, D3**



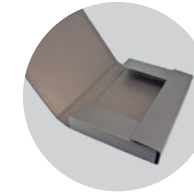
Folding carton



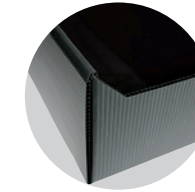
Corrugated plastic



Polypropylene



Folders



Corrugated box



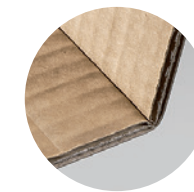
Document wallet

## Creasing Tool Type 3 – CTT3



The CTT3 is the optimal tool for processing double-wall corrugated board.

- Creases without tearing
- Individually controllable pressure, with or against corrugation
- Crease wheels simply snap in place in the tool holder
- Crease wheel diameter: 90 mm / 3.5 in
- Crease wheel width: 28 mm / 1.1 in
- Optional with extended insert sleeve for cutters with 120 mm / 4.7 in in beam height
- Compatible with **G3, D3**



Corrugated cardboard, double-wall



Containers, boxes, POS displays





# Routing and Engraving

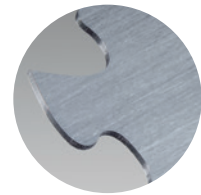
## Router Modules – RM

The centerpiece of all Zünd router modules is a high-performance, high-frequency spindle. Depending on applications and requirements, versions from 1 to 3.6 kW are available.

- Routing, engraving, polishing with one and the same module
- Capable of processing a wide range of materials
- Active cooling for reliable heat dissipation
- Efficient dust extraction for clean operation
- Designed for 24/7 operation
- Wide assortment of Zünd router bits available



Wood



Aluminium



Foam



Composites



Plastic



Soft foam



Acrylic



Hard foam



MDF-board

## Universal Routing Tool – URT



Cost-effective routing and engraving tool.

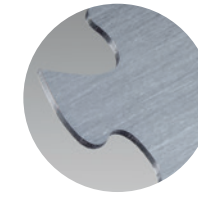
- Routing and engraving with a single tool
- Consistent, precise control of routing depth
- 300W router spindle with up to 80.000 rpm
- Continuously adjustable speed
- Wide assortment of Zünd router bits available
- Compatible with **G3**, **S3**, **L3**, **D3**



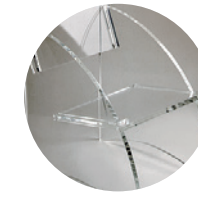
Acrylic



Hard foam



Aluminium



Acrylic furniture



3D displays



Engraved signage

## Automatic Router Bit Changer – ARC



Efficient system for automating router bit changes – from selecting the right bit to clamping, initializing and bit cleaning.

- Dramatic reduction in time spent changing bits
- Maximum routing efficiency and profitability
- Automatic cleaning with every bit change
- Pneumatically controlled cover protects magazine from routing dust and debris
- In conjunction with ZCC software, automatic records of usage and application data for each bit provide superior quality control
- Compatible with **G3**

### ARC

- Magazine accommodates 8 bits (6 standard bits, 2 v-groove bits)
- Compatible with RM-A QC

### ARC HSK

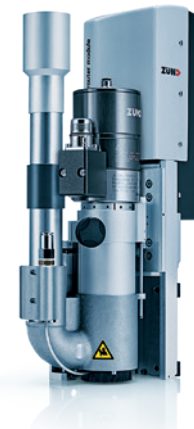
- Magazine accommodates 8 bits with HSK collet holders
- Compatible with RM-L

### Router Module – RM-L



- 3.6 kW router spindle with pneumatic clamping system
- Routing depth up to 50 mm
- Collet holders HSK-E25 for bits with shaft Ø up to 10 mm
- Integrated Minimal Quantity Lubrication - MQL for processing aluminium/ACM
- Surface compensation for precise routing despite variances in material thickness
- Compatible with Automatic Router bit Changer – ARC HSK
- Compatible with **G3**, **D3**

### Router Module – RM-A / RM-A QC



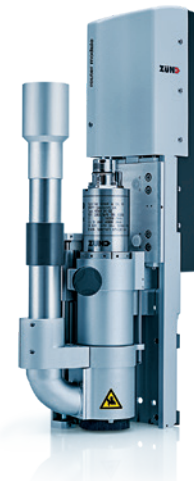
- 1 kW router spindle, optionally with manual or pneumatic collet
- Routing depth up to 50 mm
- Optional Minimal Quantity Lubrication - MQL for processing aluminium/ACM
- Surface compensation for precise routing despite variances in material thickness
- For bits with shaft Ø up to 6 mm (RM-A) or 6 mm with stop ring (RM-A QC)
- With pneumatic collet, compatible with Automatic Router bit Changer – ARC
- Compatible with **G3**, **D3**

### Router module – RM-S



- 1 kW router spindle with manual collet
- Routing depth up to 25 mm
- Optional Minimal Quantity Lubrication - MQL for processing aluminium/ACM
- Surface compensation for precise routing despite variances in material thickness
- For bits with shaft Ø up to 6 mm
- Compatible with **S3**

### Router module – RM-120



- 1 kW router spindle with manual collet
- Ideal module for processing foam materials up to 110 mm / 4.3 in thick
- Routing up to 50 mm / 2 in deep pockets
- For bits with shaft Ø up to 6 mm
- Compatible with **G3** cutters with 120 mm beam height

# Marking and Plotting

## Marker Modules – MAM



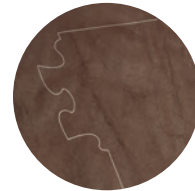
Marking and labeling of wide range of materials with commonly available pen inserts.

- Simple handling
- Plotting/drawing of die-lines, seams, patterns, guidelines
- Wide assortment of cost-effective drawing tools available from Zünd

- MAM-S:** 1 drawing tool, pneumatic (G3, D3)
- MAM-D:** 2 drawing tools, pneumatic (G3, D3)
- MAM-SE:** 1 drawing tool, electric (S3)
- MAM-SP:** 1 drawing tool, pneumatic (S3)
- MAM-SPS:** 1 drawing tool, pneumatic (S3, L3)
- MAM-SPD:** 2 drawing tools, pneumatic (S3, L3)



Rubber



Leather



Paper



Roofing insulation



Shoes



Patterns

## Universal Drawing Tool – UDT



Drawing tool for use with widely available, standard pen inserts in various line thicknesses.

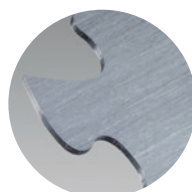
- Drawing/plotting of assembly markers, dash symbols, lettering, etc.
- Compatible with G3, S3, D3

## Raster Braille Tool – RBT



Efficient method for producing Braille (raised marking system for the blind).

- Secure fit of spheres in the substrate
- Compatible with G3, S3, D3



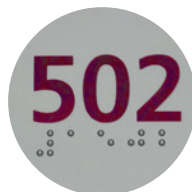
Aluminum



Wood



Plastic



Signs for the blind or visually impaired

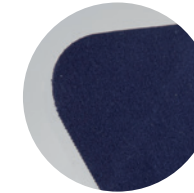


# Punching and Perforating



High-performance punch modules for leather and textiles.

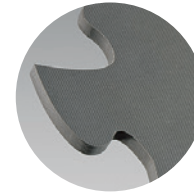
- Excellent, consistent hole quality
- Up to 8 holes per second
- Two independently operating pneumatic punch tools
- Wide assortment of 0.5–5.5 mm Ø punching bits available from Zünd
- Reliable waste removal into an integrated receptacle
- Depending on module version, additional notching, marking, or piercing functions



Textiles



Leather



Rubber



Automotive interiors



Shoes



Insoles

## Module versions

### Notching Marking Module – NMM

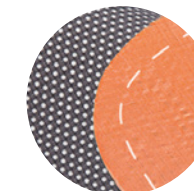
- 2 punching/notching tools for efficient hole punching and precise V- and I-notches
- 1 marking tool for patterns and seams
- Compatible with G3, D3

### Punching Marking Module – PMM-S

- 2 punching tools for efficient hole punching
- 1 marking tool for patterns and seams
- Compatible with S3, L3

### Punching Pricking Module – PPM-S

- 2 punching tools for efficient hole punching
- 1 awl for pre-piercing even, high-quality seams
- Compatible with S3, L3



# Universal Carrier Module

## Universal Modules – UM



Universal carrier modules for a wide range of tools.

- Particularly fast tool change
- Tool detection
- Two operating modes: Pressure/position

- UM-S:** high-speed Z-axis (S3, L3)
- UM-ZS:** high-speed Z-axis (G3, D3)
- UM-ZP:** high-powered Z-axis (G3, D3)
- UM-120:** for cutters with 120 mm / 4.7 in beam height (G3)
- UM-60L:** for accommodating large tools (G3, D3)



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