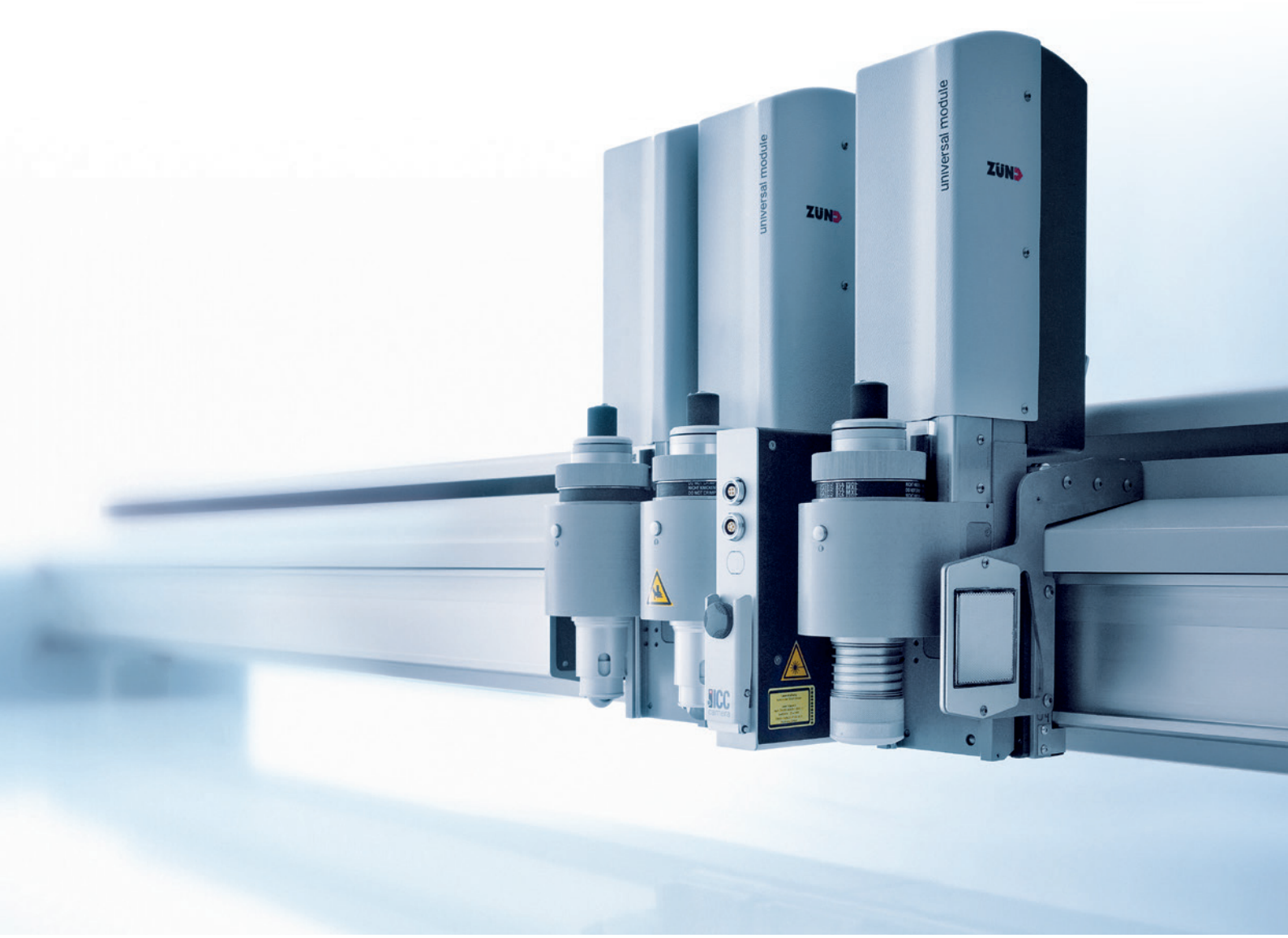
Modules, tools, and applications
Zünd Digital Cutter



Your first choice in digital cutting.

ZÜND
swiss cutting systems

Cutting

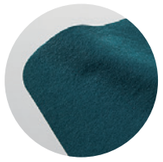
Electric Oscillating Tool – EOT

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

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

Foamcore

Leather



Felt

3D signage

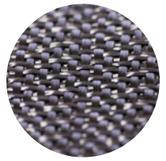
Shoes

Handbags

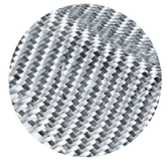
Power Rotary Tool – PRT

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

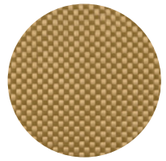
- Use of rotary blades reduces drag force
- Choice of 3 RPM levels (16.000/12.000/8.000)
- Low-impact processing of materials with low melting points
- High throughput and clean, precise cuts
- Compatible with **G3**, **D3**



Carbon fiber



Glass fiber



Aramid fiber

Automotive industry

Aerospace industry

Defense industry

Electric Oscillating Tool – EOT-250

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

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

Sandwich board

Folding carton

Leather

Furniture

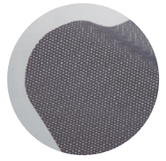
3D displays

Shoes

Driven Rotary Tool – DRT

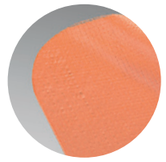
Tool for processing technical textiles and fabrics. The motor-driven rotary blade allows for very high processing speeds.

- 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

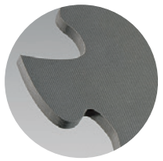
Pneumatic Oscillating Tool – POT

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

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

Foam

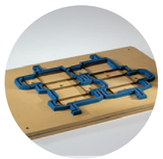
Corrugated cardboard



Rubber

Foam inserts

Containers

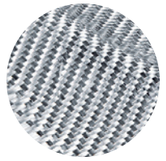


Cutting dies

Wheel Knife Tool – WKT

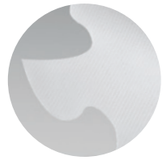
Low-maintenance tool for processing single-ply glass and carbon fiber as well as technically demanding textiles.

- 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 5 mm 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

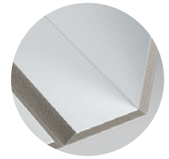
Corrugated box

V-Cut Tool – VCT

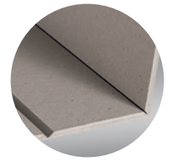
Tool with seven different cutting angles. Capable of producing complex structural designs from foamcore or honeycomb display board materials.

- Simple, precise angle settings
- Cuts materials up to 16 mm / .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



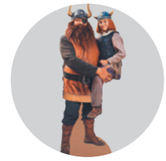
Foamcoreboards



Folding carton

Furniture

Trade-show booth



POP displays

Press Cutting Tool – PCT

Tool that simultaneously cuts and compresses corrugated cardboard.

- Special glide shoe for top-quality results equal to die-cutting
- Very high cutting speeds
- Simple, precise depth adjustment
- Suitable for max. material thickness: 7 mm
- Compatible with **G3**, **S3**, **D3**

Corrugated cardboard

Cardboard boxes

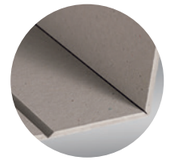
POP/POS displays

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 5 mm / .19 in thick
- Compatible with **G3**, **S3**, **D3**

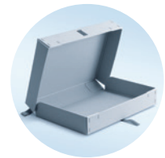
Cardboard



Gray board

Folding carton

Picture frames



Archiving boxes

Picture mats

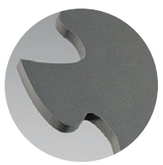
Scoring Cutting Tool – SCT

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

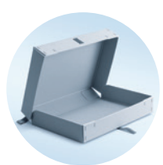
- Very high processing speeds
- The blade is extended/retracted pneumatically
- Can be used with all flat-stock drag knives Zünd offers
- Spring-loaded glideshoe available as option
- Compatible with **G3**, **S3**, **D3**

Folding carton

Printing blankets



Rubber



Archiving boxes

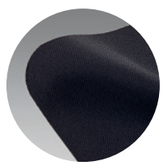
Printing blankets

Cutting dies

Laser Module – LM 100W

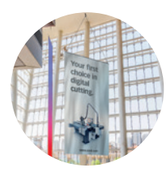
Laser module for cutting polyester fabrics and simultaneously sealing edges (Cut & Seal).

- CO_2 100W laser
- For polyestertextiles, thicknesses up to 2 mm
- 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

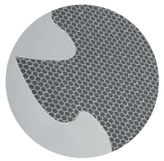
Kiss-Cutting

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**

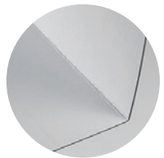
Corrugated cardboard, single-wall

Containers, boxes, packaging

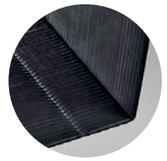
Creasing Tool Type 2 – CTT2

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

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

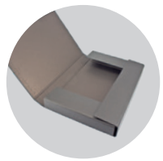


Folding carton

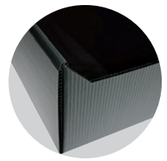


Corrugated plastic

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 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.

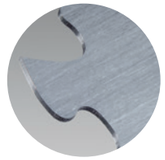
- Routing, engraving, polishing with one and the same module
- Capable of processing a wide range of materials
- Active cooling for reliable heat dissipation
- Efficient dust extraction for clean operation
- Designed for 24/7 operation
- Wide assortment of Zünd router bits available

Acrylic

Hard foam

MDF-board

Wood


Aluminium

Foam

Composites

Plastic

Soft foam

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

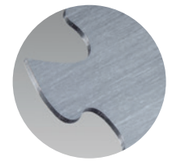
Universal Routing Tool – URT

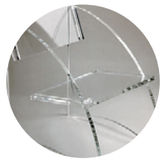
Cost-effective routing and engraving tool.

- Routing and engraving with a single tool
- Consistent, precise control of routing depth
- 300 W 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

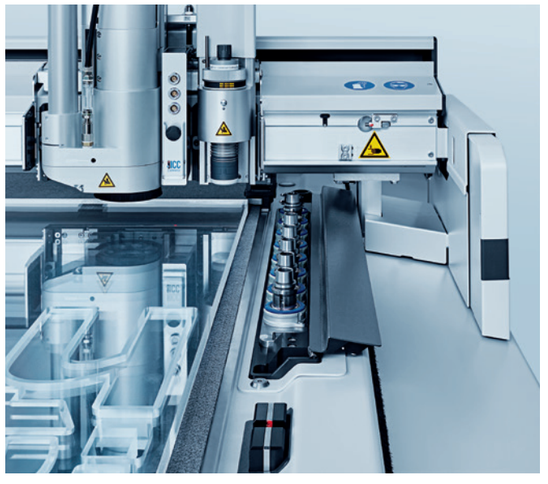

Aluminium


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

Marking and Plotting

Marking 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

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**

Roofing insulation

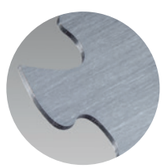
Shoes

Patterns

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

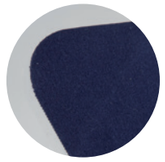
Plastic

Signs for the blind or visually impaired

Punching and Perforating

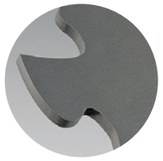
High-performance punch modules for leather and textiles.

- 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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Zünd Systemtechnik AG
Industriestrasse 8
CH-9450 Altstätten
T +41 71 554 81 00
info@zund.com
www.zund.com

ZÜND
swiss cutting systems