

# Zünd Cutting Systems



for digital production of ...

## Displays/POP/POS

Contour cutting, trimming, routing, creasing of rigid materials

## Banners/Posters

Automated trimming of flexible, rolled materials

## Labels/Decals

Fully automated kiss-cutting, through-cutting of flexible sheets

**+** cost effective – innovative – compatible

# Zünd Cutting System for preprinted materials

- The rapid growth in the number of digital printing systems has led to an increase in the demand for finishing graphics. Whether they are applied, laminated, or printed directly to the substrate, whether the substrate itself is rigid or flexible, rolled or sheeted, all digitally printed graphics must be contour-cut, trimmed, “kiss-cut” down to a liner or die-cut all the way through.
- The trend towards just-in-time production, shorter runs, and greater variety of substrates makes traditional die-cutting methods and manual cutting inefficient, if not obsolete.
- The marketplace demands ever-shorter turnaround times at consistently high quality levels and affordable cost. At the same time, an ever-growing need exists for customization and individuality in design and materials. Only a highly efficient, flexible, and versatile production method can satisfy this complex set of demands:

## Digital production – the solution

Over 1000 digital and screen-printers worldwide benefit from the advantages of Zünd camera-guided cutting systems for digital finishing and production of displays, POP/POS graphics, labels, etc.

### **+** Typical benefits include...

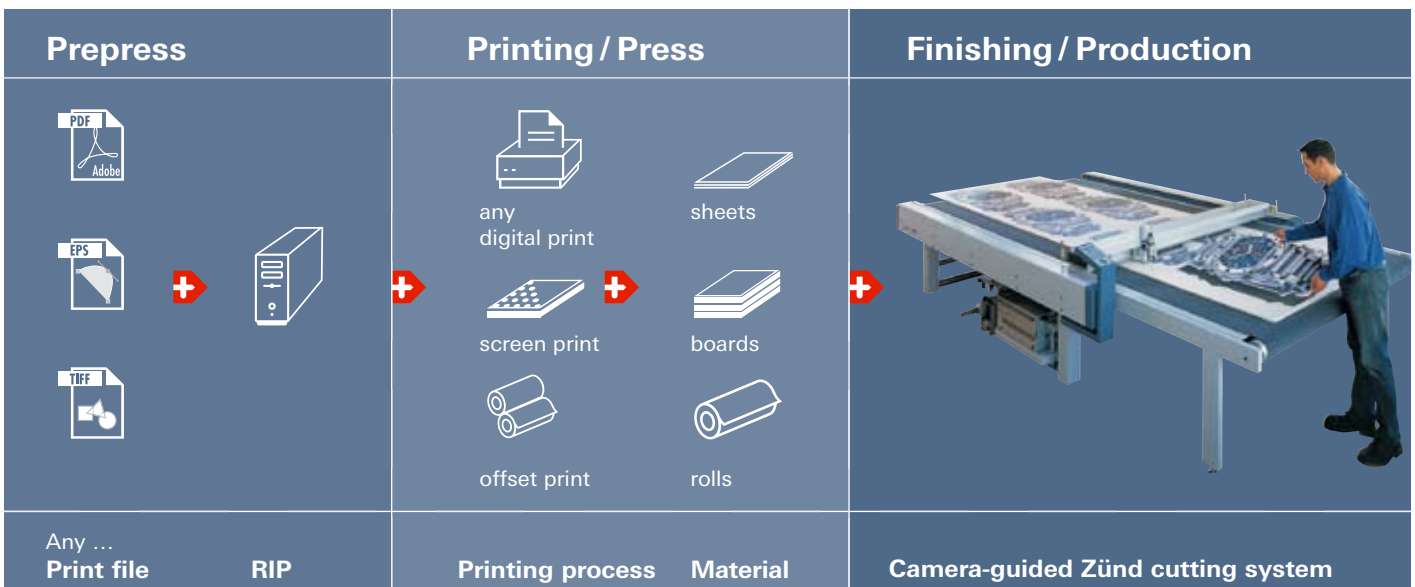
- ... increase in productivity at lower cost
- ... elimination of die costs and die production time
- ... consistently high cut quality and accuracy
- ... optimal material usage, minimal waste
- ... reduced setup time, increased planning and production flexibility
- ... freedom of design, enhanced material and size options

### **+** Zünd – compatible with any printing method and software solution

#### Use any print file, RIP, or printing process...

- ... Standard formats such as PDF, AI, EPS
- ... RIP software, e.g. PosterShop®, PosterPrint, ColorGATE, Wasatch SoftRIP, PhotoScript
- ... Vision System™, OptiSCOUT™
- ... Workflow software, e.g. prepare-it

## As an independent system supplier – Zünd opens the door to a world of opportunities



**+** versatile – accurate – selectable

# The Zünd Modular Tool Concept

Zünd multifunctional tool heads can be combined with all cutter sizes, giving you unlimited choices

for through-cutting, kiss-cutting, routing, engraving, creasing

of hard and soft foamboards, plastic materials, acrylics, styrene, vinyl, textile materials, etc.  
such as  
DIBOND®, KAPA®, FOREX®, Gatorfoam®, Sintra®, etc.

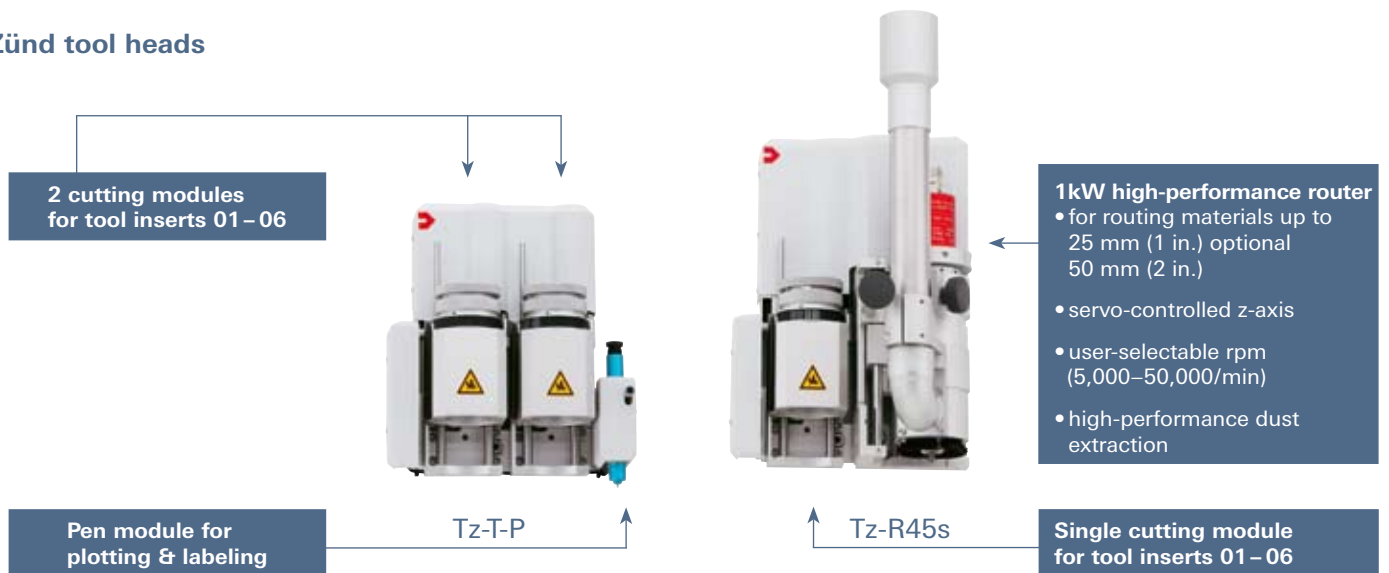
**+** Our concept – your benefit: modular – upgradeable – exchangeable

Choose and combine  
Zünd tool inserts



- |                              |                                |                            |                                |                                  |                          |                         |
|------------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------------|--------------------------|-------------------------|
| <b>01</b><br>tangential tool | <b>02</b><br>kiss-cutting tool | <b>03</b><br>creasing tool | <b>04</b><br>oscillating knife | <b>05</b><br>driven rotary knife | <b>06</b><br>150W router | <b>07</b><br>1kW router |
|------------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------------|--------------------------|-------------------------|

Zünd tool heads



**+** With Zünd you always make the cut

- superior cutting and routing quality at unsurpassed productivity
- efficient and flexible with intelligent tool management
- sturdy, compact, high-tech design
- upgradeable, adaptable, exchangeable
- wide range of high-quality knives/blades and router bits

 flexible – efficient – automated

# The Zünd Material-Handling Concept

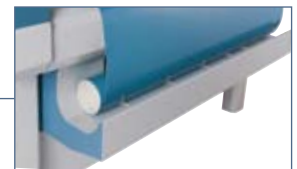
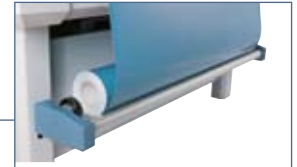
Zünd cutters combine sophisticated cutting technology with state-of-the-art material handling for high productivity with minimal operator intervention. Zünd offers handling solutions for sheets, boards, and rolled materials to meet all automation requirements.

## Automated handling of rolled materials

Zünd automatic roll-off/rewind and conveyor options allow for continuous cutting of various rolled materials, even with graphics exceeding the length of the table.



Efficient, simultaneous cutting and unloading with conveyor extension



Roll-off and rewind options for automatic advancing of rolled materials

## Handling of sheets and boards

Fast and easy – automated, continuous loading and cutting of sheets and boards with the Zünd sheet-feeder.



Fully automated production with Zünd sheet/board feeder



Automatic loading of sheets and boards

## With Zünd you always make the cut

- sheet and roll-feed options to meet your requirements
- around-the-clock cutting for unsurpassed productivity
- accurate material-advance guarantees seamless continuation of cuts
- sensor-controlled operation requires minimal operator presence
- automation options available as upgrades for existing Zünd cutters

# Multi-functional Zünd Graphics Cutter

More than 12,000 cutters “made in Switzerland” are in operation all over the world – many of them producing around the clock. Superior speed and acceleration, intelligent tool control, the ability to change cutting parameters any time during cutting, optional material-handling and workflow automation are all among the reasons why Zünd is by far the most productive graphics finishing and production system available.

## Zünd – flexible into the future

Zünd cutters can be upgraded any time to keep up with ever-changing production needs. Many users have taken advantage of the modularity of Zünd cutters at the time of purchase as well as later on. For instance, upgrading their existing configuration with a camera-guided registration system has given them access to entirely new markets.

## Zünd – quality matters

Thousands of Zünd cutters installed worldwide since the 1980s are daily testimony to the quality and reliability for which Zünd is known. Zünd’s unrivaled track record assures that your cutting system will remain a valuable asset for years to come.



## With Zünd you always make the cut

- superior cut quality at unsurpassed productivity levels
- unrivaled price-performance ratio and return on investment
- system configurations adaptable to specific applications and production requirements
- automation from prepress to finished product
- upgradeability and modularity for lasting value in changing markets
- proven reliability, low-cost maintenance
- highest-quality Swiss engineering and construction
- worldwide service & support organization

## Zünd – the cutting edge

The success of Zünd cutters has not been accidental. In close contact with end users and software providers, Zünd is continuously developing innovative solutions for new applications. Wherever reliability, precision, and high performance are required, customers look to Zünd for the best solution.

### Choice of 16 cutter sizes

Width*	800 mm 31 in.	1300 mm 51 in.	1800 mm 71 in.	2200 mm 86.5 in.	2700 mm 106.5 in.	3200 mm 126 in.
Length*						
800 mm 31 in.	<b>S-800</b>	<b>M-800</b>				
1200 mm 47 in.		<b>M-1200</b>	<b>L-1200</b>	<b>XL-1200</b>		
1600 mm 63 in.		<b>M-1600</b>	<b>LR-1600</b> <b>LH-1600</b>	<b>XL-1600</b>		
2500 mm 98 in.			<b>L-2500</b>	<b>XL-2500</b>		
3000 mm 118 in.			<b>L-3000</b>	<b>XL-3000</b>	<b>2XL-3000</b>	<b>3XL-3000</b>

\*Active cutting area may vary depending on the tool head.

## Technical Data

- rugged, welded construction (frame and side-support version)
- slip-free steel band drive (patented) with hardened and ground linear guides for superb quality and high precision
- all axes with highly dynamic DC-motor drives
- knife and service friendly acrylic table top
- material hold-down with stepless vacuum system
- light-barriers with integrated self test to control the working area

Repeatability	+/- 0.02 mm/0.0008 in. (2XL/3XL-3000 +/- 0,03 mm/0.0012 in.)
Resolution of measuring system	0.005 mm/0.0002 in.
Addressable resolution	0.01 mm/0.0004 in.
Speed	1–1000 mm/s / 0.04 – 39 in./s max. speed depending on cutter size and tool head
Acceleration	max. 10 m/s <sup>2</sup> / 400 in./s, 1G, depending on cutter size and tool head
Max. material thickness	standard up to 30 mm (1.18 in.) optional 60 mm (2.36 in.)
Interface	RS232C / V24, 600...38400 Baud; input buffer 1MB with replot function
Software	command set: HPGL expanded, data format: ASCII Service-friendly, exchangeable electronics box
Electronic Control	4-axis control X, Y, T, Z variable, look-ahead vector processing
Control panel	user-friendly, 4-line LCD display, multilingual 9 user parameters, integrated diagnostics function
Compatible with	Vision System™, OptiSCOUT™, and prepare-it, etc.

Illustrations, descriptions, and technical data are not binding and may be changed without prior notice. Zünd precision cutters are manufactured to CE approval.

## Worldwide, accessible, competent

As a supplier of highest-quality cutting systems, Zünd is equally committed to providing first class sales and after-sales support. Zünd is represented by a worldwide sales and service/support network. Local sales and service centers offer complete cutting systems as well as consumables and spare parts for Zünd plotters/cutters with hotline service for remote diagnostics and local spare parts inventories for maximum responsiveness to customer needs and machine up-time.



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