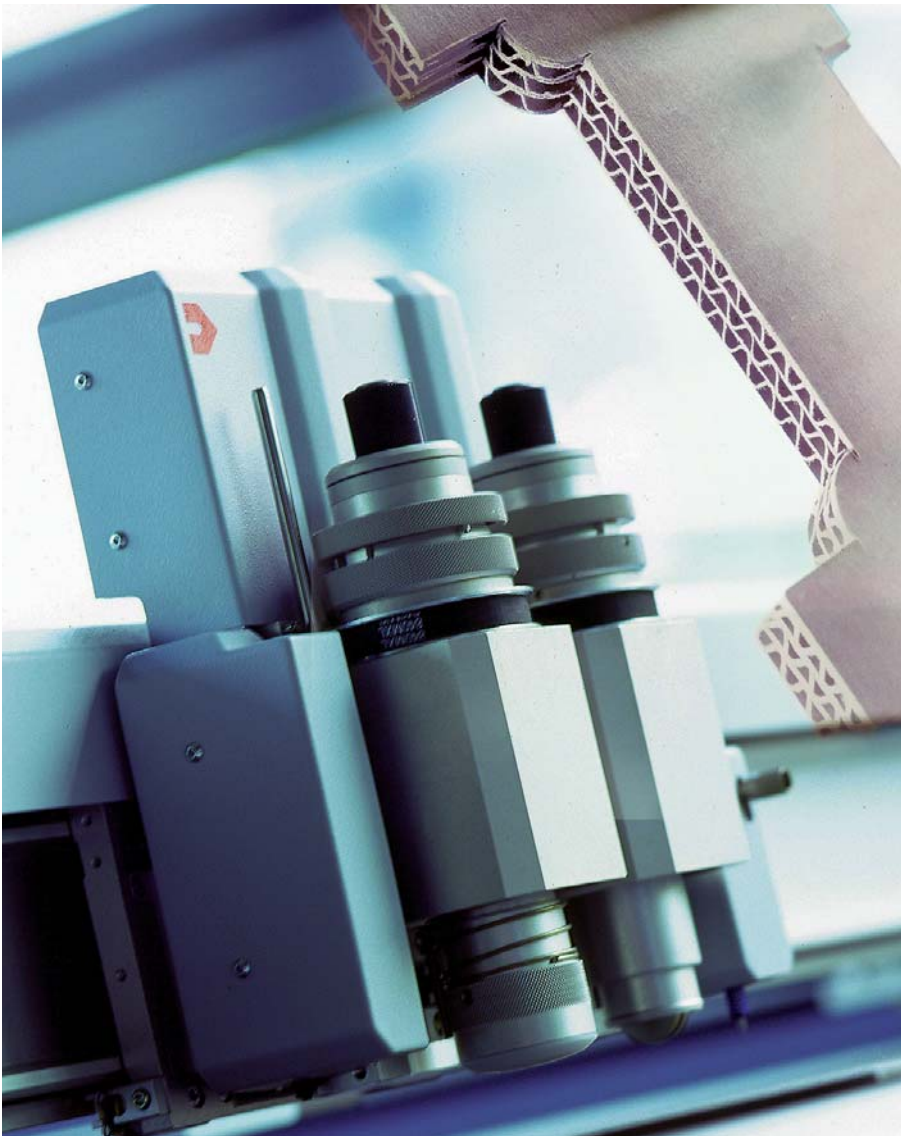


# PRECISION CUTTER

Cutting, Printing, Routing, Creasing, Engraving, Laser...

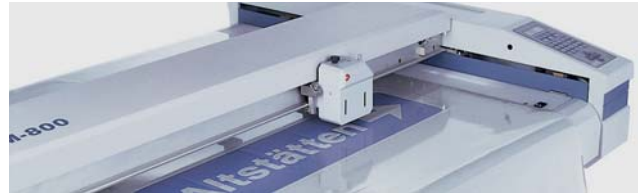


## THE KEY TO SUCCESS

**ZÜN**   
Swiss Printing & Cutting Systems

## ➔ fast, precise, universal

The most successful Precision Cutters are made in Switzerland. For many years Zünd has been the leading manufacturer of multifunctional, high-output cutting systems. Zünd is consistently setting new standards for quality, reliability and flexibility.



| Dimensions*              | S-Line       | M-Line        | L-Line                   | XL-Line        |
|--------------------------|--------------|---------------|--------------------------|----------------|
| Width                    | 800 mm (31") | 1300 mm (51") | 1800 mm (70")            | 2200 mm (86")  |
| Type                     | <b>S-800</b> | <b>M-800</b>  | <b>L-800</b>             | <b>XL-800</b>  |
| Length<br>800 mm (31")   |              |               |                          |                |
| Type                     |              | <b>M-1200</b> | <b>L-1200</b>            | <b>XL-1200</b> |
| Length<br>1200 mm (47")  |              |               |                          |                |
| Type                     |              | <b>M-1600</b> | <b>LR-1600 (LH-1600)</b> | <b>XL-1600</b> |
| Length<br>1600 mm (63")  |              |               |                          |                |
| Type                     |              |               | <b>L-2500</b>            | <b>XL-2500</b> |
| Length<br>2500 mm (98")  |              |               |                          |                |
| Type                     |              |               | <b>L-3000</b>            | <b>XL-3000</b> |
| Length<br>3000 mm (118") |              |               |                          |                |

\*Working width for tool 1: The precise working area depends on the type of tool head fitted and may vary slightly.




### Technical data

#### Mechanical construction:

- rugged, welded construction (frame or side support versions). 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
- acrylic table top, knife and service friendly
- material hold-down with stepless vacuum system

|                            |   |  |
|----------------------------|---|--|
| Repeatability              | +/- 0.02 mm (0.0008")   |  |
| Resol. of measuring system | 0.005 mm (0.0002")  |  |
| Addressable resolution     | 0.01 mm (0.0004")   |  |
| Speed                      | 1 - 1000 mm/s (0.04 - 39"/s), max. speed depending on cutter type and tool head   |  |
| Acceleration               | max. 10 m/s <sup>2</sup> (400"/s <sup>2</sup> ), depending on cutter type and tool head                                   |  |
| Material clearance         | 30 mm (1.18") standard, depending on tool head; optional 50/75 mm (1.97/2.95")  |  |
| Interface                  | RS 232C/V24, 600...38400 Baud, input buffer: 1 MB with replot function  |  |
| Software                   | Command set: HP-GL extended<br>Data format: ASCII   |  |
| Electronic control         | Service friendly, exchangeable electronic box, 4-axis control X, Y, T, Z<br>Variable, look ahead vector control           |  |
| Keyboard                   | User friendly operating panel with 4-line LCD display, multi-lingual, 9 user parameters<br>Integrated diagnostic function |  |
| Mains supply               | Plotter   | 110 V, 115 V, 230 V / 50 - 60 Hz, 700 VA single phase  |
|                            | Vacuum pump   | Standard 230 V / 50 Hz single phase 0.8 kW (others on request)<br>3 x 400 V / 50 Hz three phase 2.2 kW (others on request) |
|                            | Compressed air  | Cutting and punching head Tz-P-Pu 20 l/min at 6 bar<br>Pneumatic oscillating tool POT min. 400 l/min at 8 bar              |
| Safety (CE, UL)            | Light barriers with integrated self test to control the working area  |  |
| Environment                | Operating temperature   | +10°...+32°C (+50°...+89°F)  |
|                            | Storage temperature   | -20°...+52°C (-4°...+125°F)  |
|                            | Relative humidity   | 40% to 80% non condensing  |

Illustrations, descriptions and technical data are not binding and may be changed without prior notice.

 Zünd precision cutters are manufactured to CE approval.

### Material feeding systems For vinyl foils



**Roll-off unit**  
for S-, M-, L- and XL-Line

With or without motor drive.  
Automatic material feed with adjustable feeding paws or clamps.



**Roll-up unit**  
for M- and L-Line

### For paper, cardboard, textiles, etc.



**Unwind/wind-up unit**  
for M-, L- and XL-Line

Markermaking from roll to roll up to 400 m (1312 ft).



**Conveyor**  
for S-, M-, L- and XL-Line

Continuous cutting and automatic feeding of rolled or sheet materials.



## ➤ competent, successful, innovative

The success of Zünd plotters is not by chance. In close contact with end users and providers of software solutions Zünd is continuously developing innovative system solutions for new applications. Where reliability, precision and high performance is required increasing numbers of system suppliers are relying on Zünd.

Whether sheets or rolled materials, flexible or rigid...

**Whatever your requirement – Zünd has the solution.**

| Gasket materials | Application |         |                 |                    |            |                 |                    |         |                  |           |         |         |            |
|------------------|-------------|---------|-----------------|--------------------|------------|-----------------|--------------------|---------|------------------|-----------|---------|---------|------------|
|                  | Aluminium   | Leather | Apparel fabrics | Upholstery fabrics | Non wovens | Foamed material | Technical textiles | Carpets | Graphic industry | Packaging | Textile | Leather | Mountmaker |
|                  |             |         |                 |                    |            |                 |                    |         | ➤                | ➤         |         |         |            |
|                  |             |         |                 |                    |            |                 |                    |         | ➤                | ➤         | ➤       |         |            |
| ➤                | ➤           | ➤       | ➤               | ➤                  | ➤          | ➤               | ➤                  | ➤       | ➤                | ➤         | ➤       |         |            |
| ➤                | ➤           | ➤       | ➤               | ➤                  | ➤          | ➤               | ➤                  | ➤       | ➤                | ➤         | ➤       | ➤       | ➤          |
|                  |             |         |                 |                    |            |                 |                    |         | ➤                |           |         |         |            |
| ➤                | ➤           | ➤       | ➤               | ➤                  | ➤          | ➤               | ➤                  | ➤       | ➤                | ➤         | ➤       | ➤       | ➤          |
| ➤                | ➤           | ➤       | ➤               | ➤                  | ➤          | ➤               | ➤                  | ➤       | ➤                | ➤         | ➤       | ➤       | ➤          |
|                  |             |         |                 |                    |            |                 |                    |         | ➤                | ➤         |         |         |            |
|                  |             |         |                 |                    |            |                 |                    |         | ➤                | ➤         |         |         |            |
|                  |             |         |                 |                    |            |                 |                    |         | ➤                | ➤         | ➤       | ➤       | ➤          |
| ➤                | ➤           | ➤       | ➤               | ➤                  | ➤          | ➤               | ➤                  | ➤       | ➤                | ➤         | ➤       | ➤       | ➤          |
|                  |             |         |                 |                    |            |                 |                    |         | ➤                | ➤         |         |         | ➤          |

### ...Graphic industry



for sign makers, graphic designers, screen printers...

for precise cutting of self-adhesive vinyls, reflective traffic signs, screenprinting films, polyester and polycarbonates, for routing and engraving, decals, displays, etc.

### ...Packaging



for sample makers, packaging designers, die makers...

from design through to production of printed packaging samples, displays and short run production in carton or corrugated boards.

### ...Textile



for the apparel, upholstery and technical industries...

plotting and cutting of patterns in 24 hour operation, samplmaking and single-ply cutting (made to measure).

### ...Leather



for the efficient manufacture of leather goods in the shoe and upholstery industry...

pattern and direct cutting of leather for samples or short runs for shoes, leather seats and leather accessories (handbags etc.)

### ...Multifunctional



over 10 000 plotters/cutters "made in Switzerland"...

are in operation - some 24 hours a day - with a daily increasing number. Whether for gaskets, mount makers, lampshades, model building...

...innovative systems are ready for new challenges - for yours, too!

## ➤ flexible into the future

The rapid evolution of production needs require Zünd to constantly extend developments. Digital workflow with integration of our cutting systems into complex operations are the challenge of the future.

Zünd's large format printers, camera controlled cutting heads and automatic feeding systems are already offering tomorrow's solution today!









## ➔ cutting, routing, creasing ...

... drawing, punching, perforating, etc.

Choose your individual combination from the selection of Zünd tool heads. All tool heads can be fitted to any current cutter model and retrofitting of existing installations is also possible.

For **digital printing** and **laser cutting solutions** ask for detailed information.



| Type  | Tool heads   | Description  | Suitable for  |                 |         |                   |          | Typical materials |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|---|--|--|---|-----------------|---------|-------------------|----------|-------------------|--------|-----------------|------------------|-----------------|-----------|----------------|----------------|-----------------------|-------|----------------|------------------|-----------------|---------------|------|--|--|
|   |  |  | Cutting   | Kisscut/die cut | Drawing | Routing/engraving | Punching | Creasing          | Vinyls | Decals/stickers | Reflective foils | Membrane switch | Hard foam | Acrylic panels | Plastic boards | Display boards (Kapa) | Paper | Folding carton | Corrugated board | Rubber ejection | Rubber sheets | Wood |  |  |
| Cutting and Plotting heads  |   | <b>C2</b> Cutting and plotting head with tangential knife, for alternate use of knife or pen, automatic pressure control up to 1500 g. _____                                       | ➔   | ➔               | ➔       |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |  | <b>C2-P</b> Dual head with separate pen module as illustrated left. _____  | ➔   | ➔               | ➔       |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
| Tool heads with servo-controlled Z-axis   |   | <b>Tz-P</b> High-performance cutting head with Z-axis controlled tangential module and pen module. _____   | ➔   | ➔               | ➔       |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |  | <b>Tz-T-P</b> Multiple cutting head with two Z-axis controlled tangential modules and one pen module. _____  | ➔   | ➔               | ➔       |                   |          | ➔                 |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |   | <b>Tz-2T-P</b> Multiple cutting head with three Z-axis controlled tangential modules and one pen module (diam. 40 mm/1.57"), dual module (diam. 20 mm/0.78") and pen module. _____ | ➔   | ➔               | ➔       |                   |          | ➔                 |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |  | <b>Tz-P-Pu</b> Cutting and punching head with Z-axis controlled tangential module, dual punch module and pen module. _____   | ➔   | ➔               | ➔       |                   |          | ➔                 |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |   | <b>Tz-R45-P</b> Cutting and milling head with Z-axis controlled tangential module, routing module and pen module. With 150 W or 450 W high frequency spindle. _____                | ➔   | ➔               | ➔       | ➔                 |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |  | <b>alternative: R45-P</b> Routing and Pen module. _____  |   |                 | ➔       | ➔                 |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |   | <b>Rz-P</b> 3-D milling head with Z-axis controlled routing module and pen module. With 150 W or 450 W high frequency milling spindle. _____                                       |   |                 | ➔       | ➔                 |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|  | <b>T75-P</b> Cutting head for bevel and straight cutting with tangential module and pen module.<br>- insert for various tools<br>- bevel cut up to 15° degrees _____ | ➔  | ➔   | ➔               |         |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   | <b>alternative: Tz-T75-P</b> multiple cutting head _____   | ➔  | ➔   | ➔               |         |                   | ➔        |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
| Optical Registration Systems  |   | <b>CCD-camera</b> Automatic registration for precise cutting of printed materials. _____   | CCD-camera recognizes exact position (can be mounted on all tool heads) |                 |         |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
| Special tools   |   | <b>EOT</b> Electric oscillating tool _____   | ➔   |                 |         |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |  | <b>POT</b> Pneumatic oscillating tool _____  | ➔   |                 |         |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |  | <b>DRT</b> Driven rotary tool _____  | ➔   |                 |         |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |
|   |  | <b>PPT</b> mount cutting tool _____  | ➔   |                 |         |                   |          |                   |        |                 |                  |                 |           |                |                |                       |       |                |                  |                 |               |      |  |  |

C2 = Cutting head with tangential knife

P = Pen module

Tz = Z-axis controlled tangential module

Pu = P



## ➔ Zünd – one step ahead

We are always striving for new ideas and innovative solutions. Zünd stands for efficient processing systems for most versatile applications with highest customer benefits.



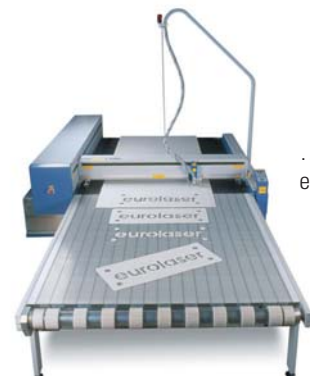
UVjet 215-C, the multi-functional large format printer for rigid and rolled materials such as plexiglass, cardboard, glass, aluminium, paper, foils, textile materials etc. for indoor and outdoor applications.

Automatic, digital and camera controlled cutting system for printed panels, sheet and roll materials.



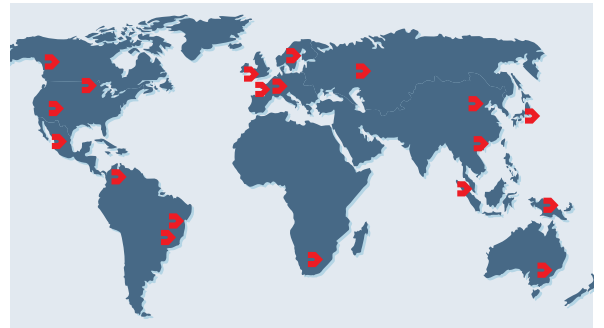
Direct cutting of leather with the LC-2400 for the shoe and leather goods industry.

Single/low ply cutter (made to measure production) with integrated take-off table based on knife technology on Zünd product range...



...using Laser technology (seals cutting edges) on Eurolaser/Zünd product range.

For further information please ask for full product details.



## ➔ worldwide, accessible, reliable

The level of first class cutters also extends to the after-sales service. Worldwide sales and service centres with spare parts for Zünd and Wild plotters, regular training courses for service technicians and system suppliers as well as hot-line telephone support give customers worldwide complete assurance in their purchasing decision.



distributed by:

FOR ADDITIONAL INFORMATION  
PLEASE CONTACT  
□  
NOVAMAX INTL LLC  
8200 S Quebec St Suite A-3  
Englewood, CO 80112  
(303) 470-7226 Fax (303) 470-5773  
Toll-Free 1-800-594-3380  
[www.novamaxinternational.com](http://www.novamaxinternational.com)

**ZÜND** ➔  
Swiss Printing & Cutting Systems