

Technical Overview

S3 Digital Cutter



Your first choice in digital cutting.

The modular cutter concept

Intelligent, efficient, ready for the future

Zünd cutting systems are well known for being modular. The S3 is no different - it can be changed, expanded, upgraded at any time. Modular tooling allows for processing a wide variety of materials up to a maximum thickness of 25mm / 1". Various levels of optional material-handling automation make S3 the perfect all-round production system.

Productivity

Zünd cutting systems are designed specifically for 24/7 operation. They offer a unique combination of heavy-duty construction and superb accuracy. Since the highest levels of productivity

can be attained only if idle time is kept to a minimum, Zünd offers material-handling options to optimize the production workflow and reduce setup times. Robust, versatile tooling delivers

precise cutting, at optimal speeds, of just about any material and in any shape imaginable. High performance and quality - two things you can always count on with Zünd.



Vinyl transport

A material-advance system designed specifically for rolls of pressure-sensitive materials makes the S3 the perfect high-precision vinyl cutter. The system includes a vacuum plate for

kiss-cutting applications, automatic roll-end detection, and a sheeting function.



Material transport

A conveyor system is available for continuous, uninterrupted cutting of rolled materials and jobs longer than the cutter. The conveyor belt serves simultaneously as cutting underlay

and support during advances. It automatically transports cut parts out of the active cutting area while reloading new, uncut material.



Semi-automatic production

Increase productivity by making it possible for the operator to multi-task while cutting operations continue uninterrupted. An extension at the front of the cutter facilitates off-loading, an extension at the back permits pre-loading materials. A guide system ensures

proper placement of sheets/boards. All of these automation features maximize productivity by keeping machine idle time to a minimum.

Material Handling

Tandem (pendulum) production

A „double working“ setup, made possible by two independently controllable vacuum zones,

provides optimized workflow and maximum throughput. The ability to load and unload material on one half of the machine while cutting

operations continue on the other makes non-stop production a reality. (M-1600, L-1600)

Roll-off units

Each material has characteristics that dictate which type of roll-off system works best.

To accommodate a widest-possible range, Zünd offers different types of roll-offs. Textiles

in particular require special handling to avoid wrinkling or excessive stretching.

Roll-off unit, universal



Roll-off unit with shaft, material-guide roll



The S3 is fast!

A high-performance direct-drive system maximizes processing speeds and accuracy.

Maintenance-free, perfectly synchronized components guarantee maximum productivity and longevity.

Sustainability

Longevity, robust construction, and proven technology combined with unparalleled innovation make the Zünd S3 an extraordinarily reliable cutter. Optimized drive-system technology and ingenious material-handling minimize energy consumption, providing a sustainable, environmentally friendly cutting solution.

Simple operation

One of the key factors in achieving maximum productivity is simple, intuitive operation - something Zünd cutting systems offer from initial setup to finished output.

Zünd Cut Center Software, ergonomically designed user-interface components, and automatic tool setup/initialization are just a few of the features that make the S3 line so easy to run.



Material hold-down

Secure material hold-down is key to efficient cutting and routing. All Zünd flatbed cutters use vacuum to hold down the material. The innovative S3 line of cutters comes equipped with high-capacity vacuum generators.

Drive system

The Zünd S3 features a unique, exceptionally strong, quiet, and maintenance-free direct-drive system.



Workstation

The ergonomically designed, perfectly positioned workstation provides easy access to the PC and secure storage for extra tools while they are not in use.



Modularity

Up to two modules can be freely combined. Module and tool changes are quick and simple, keeping setup times to a minimum.

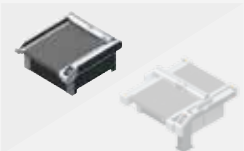
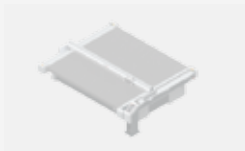
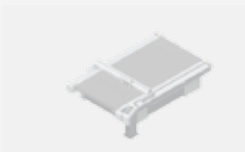
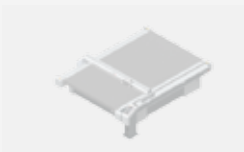
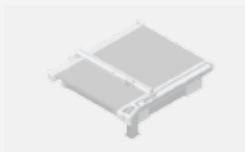
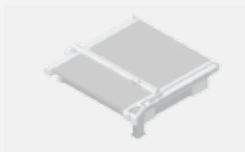
The ICC camera, a laser pointer, and marking module provide additional functionality.



One machine, many functions

Equipped with a variety of modules and tools, the S3 becomes a multifunctional production system.

The modular design characteristic of all Zünd cutters makes upgrades very cost-effective. To meet changing needs, tools, modules, and material-handling options can be added any time.

M	L	XL	2XL	3XL
 S3 M-800 1330×800 mm 52"×31"				
 S3 M-1200 1330×1200 mm 52"×47"	 S3 L-1200 1800×1200 mm 70"×47"	 S3 XL-1200 2270×1200 mm 89"×47"		
 S3/G3 M-1600 1330×1600 mm 52"×63"	 S3 L-1600 1800×1600 mm 70"×63"	 G3 XL-1600 2270×1600 mm 89"×63"	 G3 2XL-1600 2740×1600 mm 107"×63"	 G3 3XL-1600 3210×1600 mm 126"×63"
 G3 M-2500 1330×2500 mm 52"×98"	 G3 L-2500 1800×2500 mm 70"×98"			 G3 3XL-2500 3210×2500 mm 126"×98"
	 G3 L-3200 1800×3200 mm 70"×125"	 G3 XL-3200 2270×3200 mm 89"×125"	 G3 2XL-3200 2740×3200 mm 107"×125"	 G3 3XL-3200 3210×3200 mm 126"×125"

Safety and innovation

The Zünd S3 is designed to meet the highest safety standards. Innovation distinguishes every aspect of this line of cutting systems. A true Swiss Quality Product - uncompromising in design and precision!



Solid reasons for Zünd S3



Ready for the future

Zünd firmly believes the development of high-quality, sustainable products is possible only if a manufacturer follows sound business practices - both economically and ecologically.

Even Zünd's headquarters in Switzerland are the product of the company's philosophy: natural landscaping and modern, sustainable architecture reflect Zünd's concern for people and the environment. The most recent addition to its facilities is the first Minergie-P* industrial building in Switzerland, which emits 80% less CO₂ and consumes 5× less energy than conventional new buildings. All recent Zünd buildings feature roofs with extensive greenscapes, and 65% of the grounds are landscaped to retain water.

Zünd cutters are designed for longevity because the ecological footprint of a product becomes more and more favorable the longer it serves a useful purpose.

*Minergie-P is a registered brand of sustainability standards recognized worldwide.

Swiss quality and reliability

Zünd S3 cutters are optimally designed for 24/7 operation. They offer a unique combination of robust construction and superb accuracy. The standard 2-year manufacturer's warranty on S3 base machines is further evidence of their exceptional quality.

Ergonomics and ease of use

Designed by multiple award-winning industrial designer Richard Amiel, Zünd cutters provides optimal workflow efficiency. Ergonomically designed user-interface components and a 30 mm/1.2" clearance between beam and cutting surface allow for easy, timesaving operation.

Safety and eco-friendliness

With the S3, Zünd again sets new standards in safety and concern for the environment. All safety features are standard equipment. Minimal energy requirements and efficient use of resources reduces operating costs and the impact on the environment.

The best from the global market leader

G3 is not only a product of celebrated Swiss workmanship but also of Zünd's more than 25 years of innovative development and 15,000 installations worldwide. The brilliant concept behind this line of cutting systems paired with their superb construction solidify Zünd's leading role in digital cutting technology.

A good name for good reason

Performing a cut above.

As a family-owned business based in Altstätten, Switzerland, Zünd Systemtechnik AG has been the leading developer of digital cutting technologies for more than 20 years. Zünd epitomizes Swiss quality in machine construction and engineering and has for years been synonymous with precision, performance, and reliability. It is no wonder Zünd has more flatbed cutters installed worldwide than any other supplier.



11/2012

Worldwide distribution and service

Zünd and its worldwide network of distributors and service p[ar]tners excel in providing expert before-and after-sales support and uncompromising service in close proximity to their customer base. All service technicians at our subsidiaries in Hong Kong and the USA, as well as many of our partners' technicians in more than 40 countries, are trained and certified at the factory in Switzerland. Service hotlines worldwide ensure continuous customer care, maximum machine uptime, and uninterrupted production.



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