

Technical Overview

G3 Digital Cutter



Your first choice in digital cutting.

G3 Cutting Systems

Intelligent, efficient, future ready

Zünd G3 cutters set the standard for digital cutting. From one-up orders to high-volume production, the robust G3 offers a powerful, well-designed solution. G3 cutters process an incredible range of materials cleanly and efficiently, all while optimizing your entire production workflow. The benefit to you: knowing that your ROI is guaranteed - now and in the future.



Manual material-handling

Optimize your production workflow!

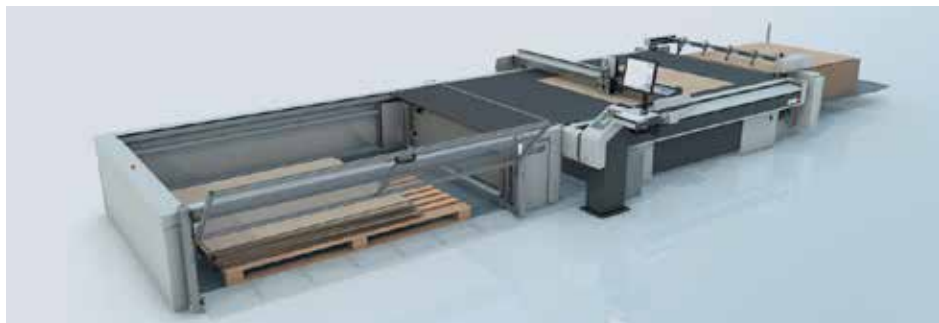
The „tandem workflow“ permits loading/unloading materials without interrupting the cutting process. While the operator loads/unloads materials on one side of the machine, cutting continues on the other. This type of pendulum production saves times and maximizes productivity by keeping machine idle time to a minimum.



Semi-automated production

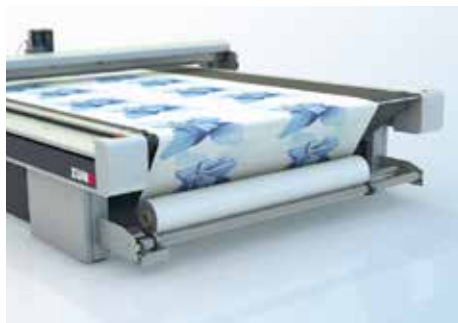
Maximize your cutter throughput!

A table extension at the front of the machine serves as off-load area, while the extension at the back is used for loading sheeted materials and boards. A guide facilitates accurate placement. Once loaded, the material advances automatically into and out of the active cutting area.



Fully automated production BHS

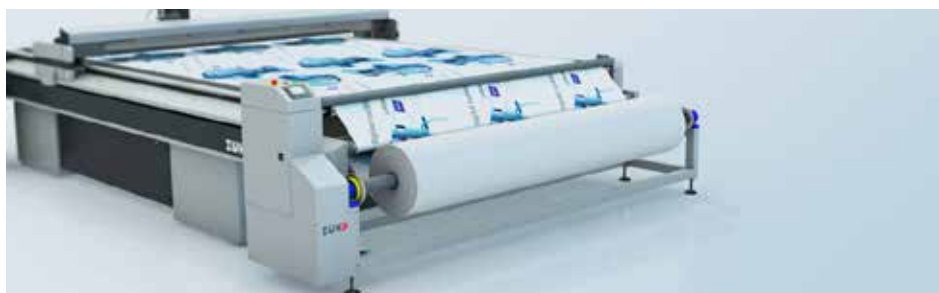
Get ready to produce around the clock with minimal manpower! Fully automated material loading and unloading makes for the ultimate production workflow. All the operator has to do is bring in and remove pallets of stacked materials. The Zünd Board Handling System and G3 are designed to deliver non-stop, 24-hour production.



Roll-off systems

Improve your output quality!

Textiles, with their tendency to wrinkle and stretch, demand special material handling. Zünd offers a guide roll that facilitates trouble-free advances as well as a range of roll-off systems designed for even the most challenging rolled materials.



Center winder

Expand your production capacity!

The robust design of the Zünd Center Winder allows for processing up to 100 kg/220 lb rolls. A sophisticated dancer system ensures consistent tension and helps deliver the material onto the cutting surface without wrinkles or stretch.

For industrial use

Swiss precision, efficiency, construction. These basic characteristics of the Zünd G3 make it the ideal cutter for 24/7 operation. With 25 years' experience, Zünd offers only well-proven technology backed by a worldwide, well-equipped service and support network prepared to keep your Zünd cutter running at all times.

Safety and speed

G3 cutters meet the highest safety standards. Despite all the safety features and monitoring devices this entails, the various cutting processes occur at maximum speeds. Optimized drive systems, sophisticated processing methods, and fully automated material advancing combine to make G3 the ultimate production machine.

Ease of use

An important factor in achieving maximum productivity is the simple, intuitive operation Zünd cutting systems offer throughout the entire workflow. Zünd Cut Center software, ergonomically designed controls, and automatic tool initialization are just a few of the features that make G3 cutters so easy to use.



Material hold-down

Proper material hold-down is key to efficient cutting and routing. On Zünd flatbed cutting systems, the material to be processed is secured with high-performance, energy-saving vacuum turbines or vacuum pumps. Zünd vacuum systems can be configured to meet the particular demands of many different applications.

Direct drive

A high-performance direct-drive system provides superior accuracy and processing speeds; in addition, it is extremely quiet and maintenance-free.



Workstation



The workstation provides the monitor, keyboard, and secure tool storage.



Production made profitable

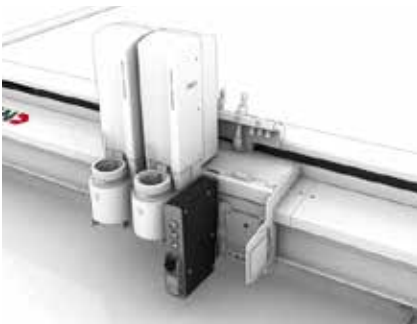
With Zünd G3, bottlenecks in your finishing department are a thing of the past. Various levels of automation minimize manual labor and its inherent costs, potential for mistakes, and lack of efficiency. Consistent workflow automation exponentially boosts your production, and a wide range of sizes, modules, tools, and material-handling systems will provide sustainable returns for years to come.



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"×128"

Complete modularity

Freely combine up to three modules. Module and tool changes are quick and easy, and setup time is minimal. The ICC camera, laser pointer, and marking module provide additional functionalities. Cost-effective upgrades guarantee your Zünd production system will keep adapting as your needs change.



Solid reasons for Zünd G3



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 G3 cutters are optimally designed for 24/7 operation. They offer a unique combination of robust construction and superb accuracy and are capable of processing materials up to 50 mm/2" thick. The standard 2-year manufacturer's warranty on G3 base machines is further evidence of their exceptional quality.

Ergonomics and ease of use

Designed by multiple award-winning industrial designer Richard Amiel, G3 provides optimal workflow efficiency with such timesaving features as uninhibited access from all sides and an ergonomically designed control panel.

Safety and eco-friendliness

The safety features of the G3 are setting new standards, and all of them are standard equipment. An energy-efficient, self-adjusting vacuum generator provides optimal hold-down while keeping energy consumption to a minimum.

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 reputation with good reason

Performing a cut above

Family-owned and based in Altstätten, Switzerland, Zünd Systemtechnik AG has been the leading developer of digital cutting technologies for more than 25 years. The Zünd name 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 manufacturer.



Worldwide distribution and service

Zünd and its worldwide network of distributors and service partners excel in providing customer proximity, expert before and after-sales support, and uncompromising service. All our subsidiaries' service technicians as well as those of many of our representatives in more than 40 countries are trained and certified at the factory in Switzerland. Service hotlines worldwide ensure continual customer support and maximum machine uptime.



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