



Quality, Safety and Dependability



Simplacutter
POWERPRESS

CLAMSHELL DIE CUTTER

General information

Our clamshell die cutters are designed to die cut many different types of materials like "Foam board" up to 6 mm thick, "laminated board" up to 3 mm thick, corrugated board up to 15 mm thick, all types of fine cardboard and paper, kiss-cut adhesive labels, wooden and soft metal sheets, depending on the thickness of the material and the amount of cutting knives and several types of plastics up to 3 mm thick...

Our machines leave the factory to work with 23.8 mm (0.937") to 30 mm (1.18") full height wood backed steel rule dies. Upon request we can custom manufacture our machines to accept any special size cutting rule.

We produce a wide range of models and can build any special size upon demand.

Input from our dedicated craftsmen and valued special requests from our clients has lead us to develop an extensive range of options. Our options are designed to be installed on both new and existing machines at our customers premises.

Each customer can pick the best options that meets their particular needs.



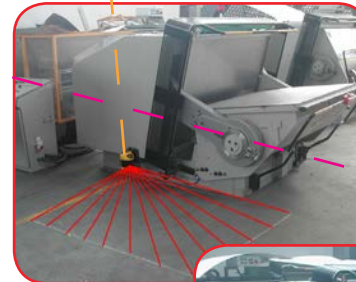
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SAFETY accessories

Laser scanners and other safety systems

Cauhe clamshell die cutters are sold worldwide and are design to meet or exceed the Strictest Safety Standards. Our safety systems meet the Standards UNE EN 1010-5 and UNE EN ISO 13849-1 and provide the maximum performance level of security (Ple). Our machines comply with other country specific safety regulations like ANSI B65.5 in the USA.

The latest addition in safety systems is the **laser scanner**. This type of scanner system has been successfully tested on clamshell style die cutters since 2000. Our safety scanner system can be used to replace side **tables**, side **fences** or side **safety mats**, although the upcoming Safety Standards will impose them to be used as an integral security system for the entire machine. Placing one laser scanner on each side of the machine prevents access from the sides and placing one unit at the top prevents front access and safely covers the danger zones leaving just a safe gap above the moving platen to feed and deliver the materials keeping the operator as safe as possible.



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SAFETY accessories

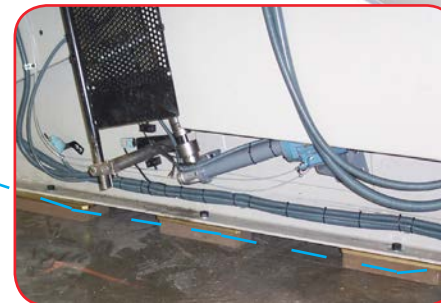
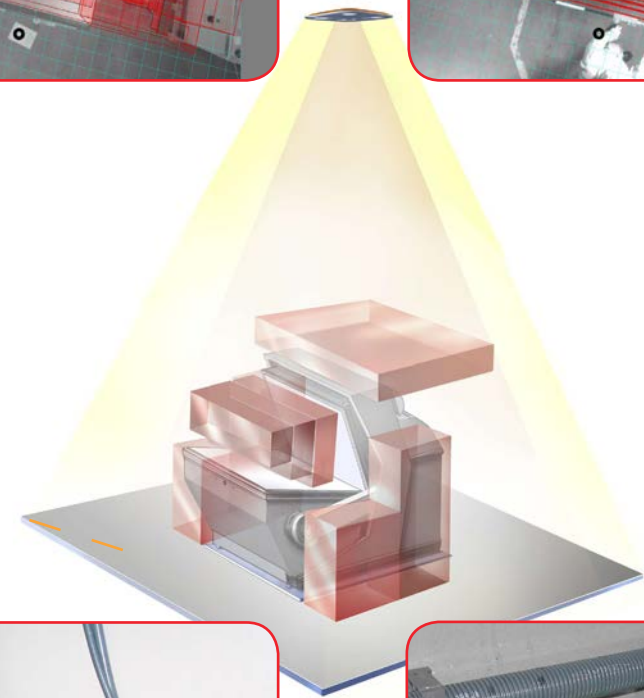
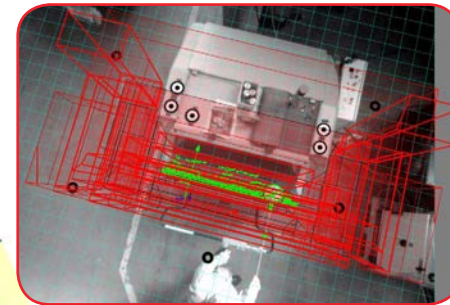
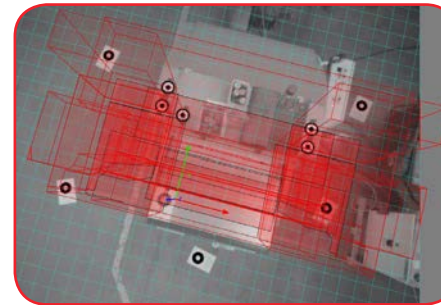
3D integrated safety system

Our ongoing research of new safety systems and collaboration with manufacturers of electronic safety products, makes us the world leader in the development of new safety solutions for these type machines. The main image is a prototype **3D integrated safety system** that controls all machine safety, still under development in cooperation with the German company PILZ.

Anti-vibration mountings

There are several ways to set our machines in position. The most common is to anchor it to the floor by bolts or chemical anchors, but we recommend using **anti-vibration mountings**, specially designed for these machines.

They prevent the machine from moving away and avoid the vibration produced in each punching stroke, to be transmitted to the company floor. Using anti-vibration mountings, the machine installation is faster. Keeping the machine elevated a few inches from the floor allows for better cleaning around the machine area.





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OPERATING the machine

Machine controls

We offer each customer the opportunity to decide where to locate the machine controls. The safety knee bar has the main working controls, leaving the rest of the controls used only for setting up a job in the main cabinet. These setting controls can be placed in the main cabinet of the machine, in the safety knee bar or on the overhead operator control panel located above the machine. The overhead control can be moved from side to side to suit the operators needs.

Optional electronic speed control unit

With the electronic speed control unit the machine speed can be adjusted + / - 20% of the rated speed to suit the needs of each job or the capabilities of each operator.





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OPERATING the machine

Automatic lubrication system

The automatic lubrication system's program insures the machine receives the proper amount of lubrication at the scheduled time, allowing the operator to continue working uninterrupted. The system contains sensors to detect low oil and will stop the machine if a no oil or pressure event is detected.

Preset counter

Optional preset batch counter. The easily programmed batch counter is equipped with a large digital screen for easy viewing. The counter counts down one sheet per machine stroke from a preset value set by the operator. Once it reaches zero, the system beeps and starts to count down from the preset value again.

Accessibility for everyone

Realizing that some of our customers may employ special needs workers, we can manufacture our machines to fit any particular need as well as meeting any specific requirements so that all individuals can work efficiently and safely.



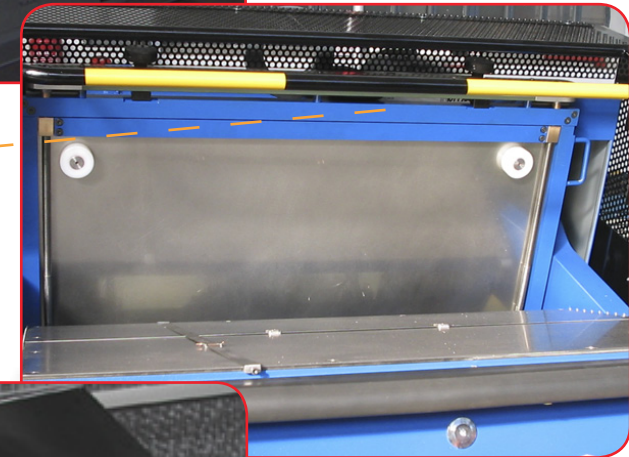
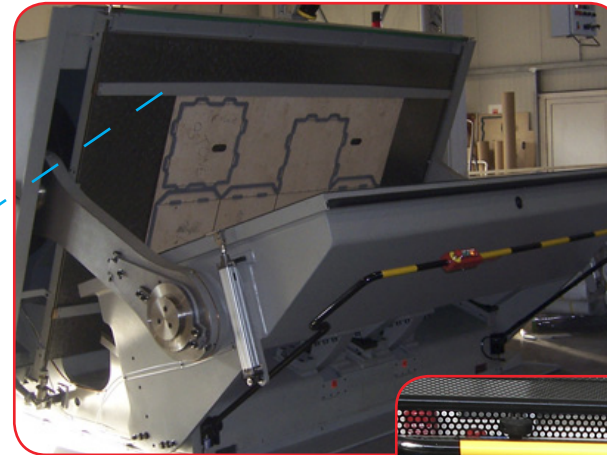
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Valuable Accessories to improve production

We have a wide range of options to help the operator lower make-ready time:

Cutting die fixing options

Minimizing the cutting die change over time when starting a new job is possible with our optional automatic chase systems. These systems can be single or double type. The latter allows the cutting die to be moved up or down. It can be operated by a hand wheel, by a pneumatic motor or by an electric motor. We can also manufacture it with a **standard chase frame** so the frame can be removed to **maximize the cutting die size**. Any of the above options can be fitted to meet a particular need



Pneumatic cutting plate lifter

Minimizes the make-ready time when setting up a new job. The optional **pneumatic cutting plate lifter** raises the cutting plate to allow the operator fast and easy access to the setup sheet which speeds up the make-ready process.





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Valuable Accessories to improve production

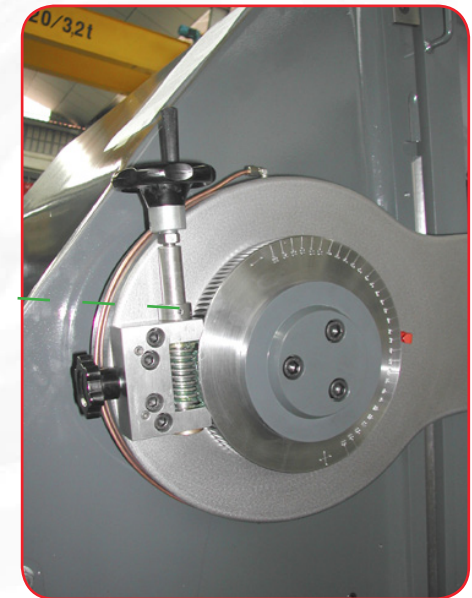
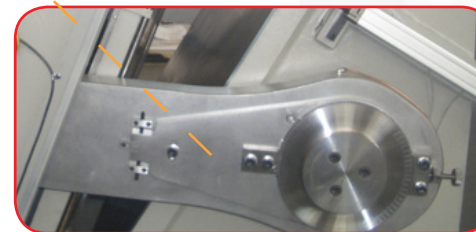
Lay-on sheet bands

Reduce make-ready time by using the optional **sheet band guide** system it's easily adjusted to fit any size sheet.



Cutting pressure adjustment

One of the most time consuming tasks to perform when setting up a new job is adjusting the cutting pressure. **Normally pressure adjustment** is performed manually with tools by unlocking and turning the micro-fine eccentric gear and often the operator will need to change the pressure setting several times during each make-ready which consumes valuable time. We provide two options to reduce pressure adjustment time, our exclusive motorized pressure adjustment system and our **hand wheel adjustment system**. Cauhé is the only clamshell die cutter manufacturer in the world to offer an optional **motorized pressure adjustment system**. The operator simply presses a button to raise or lower cutting pressure. Our second option is a hand wheel pressure adjustment system. No tools need for either pressure adjustment system.



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Accessories to work with hot dies and foil stamping

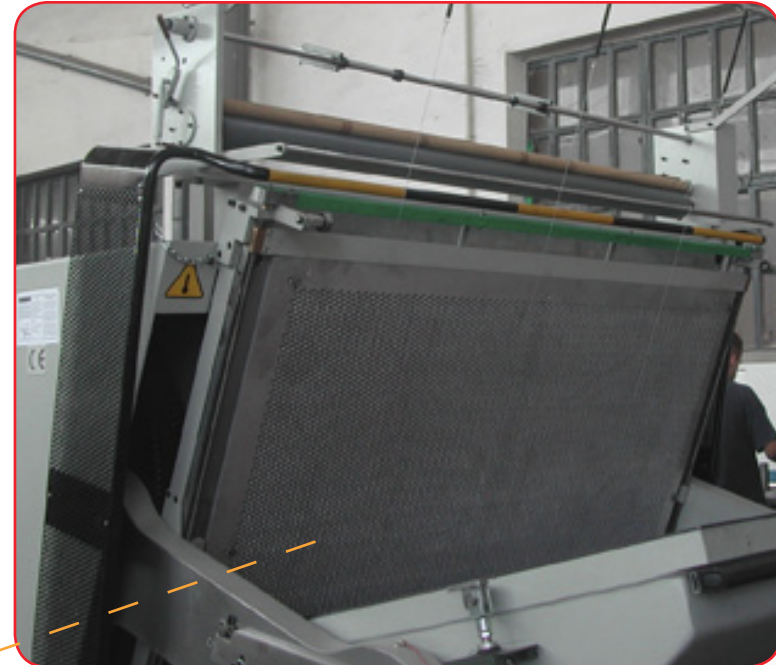
Our optional die heating system allows the operator to work with less cutting pressure and at the same time obtain a higher quality finish on many types of plastic, styrene and *vinyl* materials. Easily programmable heat zone controls allow the operator to rapidly adjust die heater temperature.

Customers that have materials that need to be pre-heated before die cutting would benefit from our optional second heating unit installed in the moving platen.

Clients requiring foil stamping capabilities would greatly benefit from our optional foil stamping system. The foil's fed from the roller stand at the rear of the machine up to the used foil collection rewind unit located on top of the machine. We can provide as many rewinding units as needed.

Our one touch control screen allows for fast and accurate adjustments for the foil speed and stroke of each individual foil roller.

Our removable honeycomb plate allows the operator the ability to die cut or foil stamp with one machine.



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Accessories to work with hot dies and foil stamping

Our honeycomb plates are designed to be easily installed or removed for foil stamping or die cutting. We can manufacture the honeycomb plate to fit any kind of automatic chase which allows the operator to fit it as easy and fast as fitting a cutting die.

And If the machine's equipped with the double chase system the honeycomb plate can be moved up or down with the foil stamping die already attached to adjust it to the correct position minimizing make-ready time.

We can install a second dwell timer to stop the moving platen at the point of impression and restart it after a preset time to do special jobs like thick creasing etchings etc...

Some applications may require the installation of different filling plates in the stationary platen or the moving platen that can be removed when it is necessary to work with thick material like book covers.

