

COMELZ

THE CUTTING EDGE COMPANY

CZ/P

SWING ARM KNIFE CUTTING MACHINE

With the flexibility typical of cnc knife cutting machines, CZ/P recreates the same optimal working conditions of swing arm clicking presses. In the CZ/P, the work area is compact and ergonomic (1300 x 650 mm) and it is served by a cutting head mounted on a telescopic swing arm with axial rotation. This structure which was indeed inspired by swing arm clicking presses allows a **complete accessibility of the work area** that is unobstructed on the front and sides and has a rear pocket to accommodate the leather. The optional **conveyor belt** helps the movement of the material allowing an excellent flow of the work cycle.

A MULTI-USE CUTTING UNIT

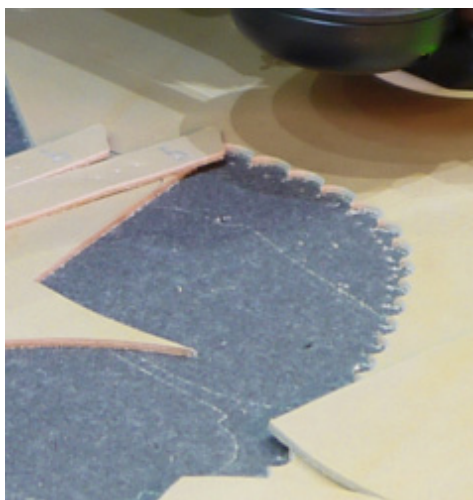
In addition to the compact design is the versatility of the multiuser cutting unit, the efficiency of the vacuum distribution system with micro-sectors, and the comfort of a good noise reduction system. For this reason CZ/P is also very suitable for design departments and small cutting facilities. The control software has a practical editor to import and modify CAD patterns, even in dxf format.

A UNIQUE WORKING AREA

The retractable telescopic head creates optimal conditions for man-machine integration by facilitating the visibility of the material. The integrated laser projector projects distinct shapes of materials of every color and under all lighting conditions

POWERFUL SOFTWARE

The control software has a intuitive editor to import and modify cad patterns, even in DXF format.



STOP&GO FOR CUTTING CORNERS

The Stop&Go patented system, available in the pneumatic Comelz oscillators, speeds up the execution of fragmented corners because allows the blade to place in vertical controlled position during the very oscillation, in order to get in and out the material during the cutting of corners without moving the head vertically, which is slower.

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COMPLETE ACCESSIBILITY

The standard CZ/P is accessible on all four sides. The retractable telescopic head creates optimal conditions for man-machine integration by facilitating the visibility of the material.

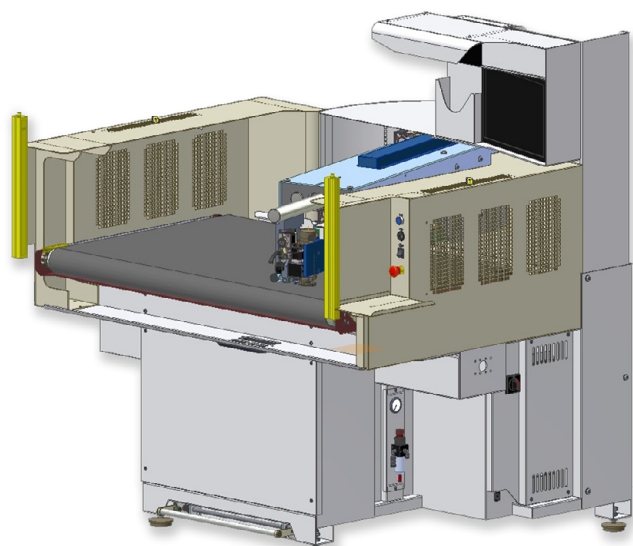


LASER PROJECTION

The integrated laser projector projects distinct shapes of materials of every color and under all lighting conditions.

INTEGRATED VISION SYSTEM

The patented multi-point vision system supplies information to the software modules that allows for automatic nesting, for re-cutting pieces, and to a sophisticated system, specific for logo typed, that automatically corrects the position and/or the geometry of pieces according to the material distortions.

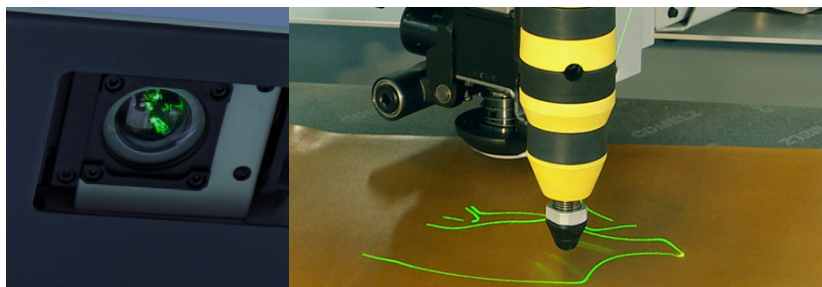


CZ/P-SP special safety package

Upgraded safety system that completely surrounds the cutting area. Photocells are placed on the top and on the front, metal grid are placed on the side and on the back. Every time the operator enters the work area, the machine will pause, making it impossible to touch moving parts.

POWERFUL VACUUM

The material is secured by a sophisticated vacuum system, that controls a large number of independent micro-sectors, each of just 10×14 cm. This optimally concentrates the vacuum power only when it's necessary, considerably reducing vacuum leaks along the irregular outline of the leather, increasing efficiency.



PNEUMATIC CUTTING HEAD

Standard cutting head for production. Features a higher stroke (4mm or 8mm) with stronger and more efficient cutting cycles. To reduce the noise level, the user can adjust through the software the vacuum pump frequency, as well as reduce the cutting frequency with the air regulator, depending on the level of production.

ELECTRIC CUTTING HEAD

Quieter cutting head for limited production and samples rooms. The cutting frequency is adjustable through the software. Using the software, the user can control the vacuum pump and cutting unit frequency, for quieter operation in "SILENT MODE". Electric cutting head stroke (distance between knife bottom position and knife top position) is limited to 3mm. Same cost as the standard pneumatic cutting head.

TECHNICAL DATA

	CU	CUP
Head Type	Electric	Pneumatic
Cutting speed:	50 m/min	50 m/min
Cutting Oscillations:	1.2 or 2mm	2, 4 or 8
Cutting Stroke:	3 mm	4 or 8 mm
Max. Cutting Thickness	2 mm	4.5 mm
Punch Holders:	5 Rotating	5 Rotating + Marking Pen

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TECHNICAL DATA	CZ/P	COMELZ ADVANTAGE
Cutting area:	51" x 25-1/2" (1300 x 650 mm)	Large, Open Work Area
Cutting speed:	50 m/min	
Max. punching frequency	300 holes/min	
Cutting Stroke:	3 mm (electric) 4 or 8 mm (pneumatic)	
Vacuum area:	48 sectors	Stronger Vacuum
Resolution:	0.025 mm	
Power supply	220V 3ph – 50/60Hz <i>(with transformer)</i>	
Max. power consumption	8 Kw	More Powerful System
Air supply	180 Liters/min (6 CFM) a 6 bar (87 psi)	
Avg Noise Rating	80 dB (pneumatic head) <i>The noise level depends on the material and settings</i>	
Net weight (Kg)	1985 lbs (900 Kg)	Ridged Construction
Gross weight (Kg)	3020 lbs (1370 Kg)	
Dimensions	69" x 62" x 66" (1750 x 1577 x 1664 mm)	
Packing dimensions	87 x 79 x 81" (220 x 200 x 205 cm)	

FEATURES

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Cutting Head:	Electric or Pneumatic - longer stroke
Accessibility:	Easy access on all four sides
Safety:	Safe working zone extended from the cutting head. If accessed the machine will pause, then will resume when clear without affecting the work cycle. Optional CZ/P-SP upgrade includes additional guards and light currents.
Projection:	Lasers projects distinct shapes of materials of every color and under full illumination. Better nesting and identification of leather.