

CHALLENGE® 370 & 420 SERIES CUTTERS



Rugged Simplicity,

World Class Cutters

- Productive
- 37" Paper Cutters
- 42" Paper Cutters
- Easy To Operate
- Cast Iron & Steel Construction
- Rotary Actuator Hydraulic-Powered Knife
- Adjustable Clamp Pressure
- Low Pressure Foot Pedal Clamping
- Micrometer Backgage Adjustment
- Two Microprocessors Control & Monitor All Machine Functions
- Line Light Cut Position Indicator
- Lighted Work Surface
- Built To Last

Details

The Challenge CRT, LED, and PB model paper cutters are available in 37" and 42" sizes. All of the models feature computer diagnostics, add/delete/change programmed channels, backgage position display in thousandths (.001"), repeat positioning accuracy $\pm .003$ ", and inch/metric – fraction/decimal cut instruction entry and display. Any program can be reviewed or changed without moving the backgage.

The PB

The PB cutters feature a full-function, microprocessor-based, programmable memory with 50 cuts on two channels, auto and air table, and an LED digital readout.

The LED

The LED cutters include the features of the PB plus 3,800 cuts on 99 channels, channel lockout for security, air table, label cutting routines, a computer memory that will "auto search" – quickly seeking open channels for your new job instructions, and more.

The CRT

The CRT cutters feature a video screen that prompts you through job setup and displays layout graphics of your job, 4,000 cuts on 99 channels, programmable air table, an alpha-numeric data entry system, auto programming of finish sizes from parent size, label cutting routines, math calculator functions, and more.

Solid Advantages

The exclusive measuring system is separated from the backgage screw for consistently accurate backgage readings. Knife changing is easy with no eccentrics to adjust.

- Precision-machined, cast iron table.
- The one shot, Bijur lubrication system saves you maintenance time.
- Built with cast iron and steel.

Microprocessor Computer

Your commands are secure and protected with memory lockout. A back-up battery provides memory protection in the event of a power failure and when power to the machine is locked out for maintenance procedures.

Hydraulic Cutting & Clamping

The rotary actuator produces powerful hydraulic cutting and dual cylinder hydraulic clamping action. Tougher and more reliable than clutch and brake assemblies, the rotary actuator will automatically raise the knife immediately upon release of either cut button.

Computer Controlled Backgage

The precise backgage position indicator reads the backgage position to .001". The backgage position indicator will keep you posted on the exact location of the backgage during all stages of the cutting operation. The Challenge exclusive rack and pinion direct reading backgage position system eliminates the wear and inaccuracies of a lead screw reading system and insures ultimate precision.

Clamp Pressure Control

At the touch of a dial, you can adjust hydraulic-powered clamping pressure for the finest cut of any stock from sensitive carbonless to thick, coated stocks.

Start with low-pressure foot pedal clamping, and when cut cycle is activated, clamp pressure increases to your selected setting. Maximum control for precision cutting results.

The foot clamping function is activated safely by depressing the foot treadle and both left and right cut buttons.

Production on your cutting jobs will increase with the large six-inch clamp opening. This large clamp opening makes handling paper much easier and allows you to cut more stock with the same number of cutting strokes.

Efficient Cutting Operations

Efficient cutting operations are achieved through computer sequence monitoring. If the computer does not detect the proper knife and clamp action, all machine operations are shut down.

The clamping function is activated by depressing the foot pedal, and then both left and right cut buttons simultaneously.

The "push out" function of the cutter moves stock forward five inches, allowing you to remove jobs without placing your hands in the clamp and knife area. Also, this is automatic when you are running programmed jobs.

The hydraulic motor will shut down whenever two minutes elapses between cycles. At the touch of the cut buttons, the cutter returns to full power.

Standard Equipment

24 x 36"/60 x 90 cm Side Tables
False Clamp Plate
Two Knives
Four Plastic Cutting Sticks
Jogging Aid
Tool Kit

Optional Equipment

Light Beam Safety Device
Air Blast Extension Tables

Reliable Durability



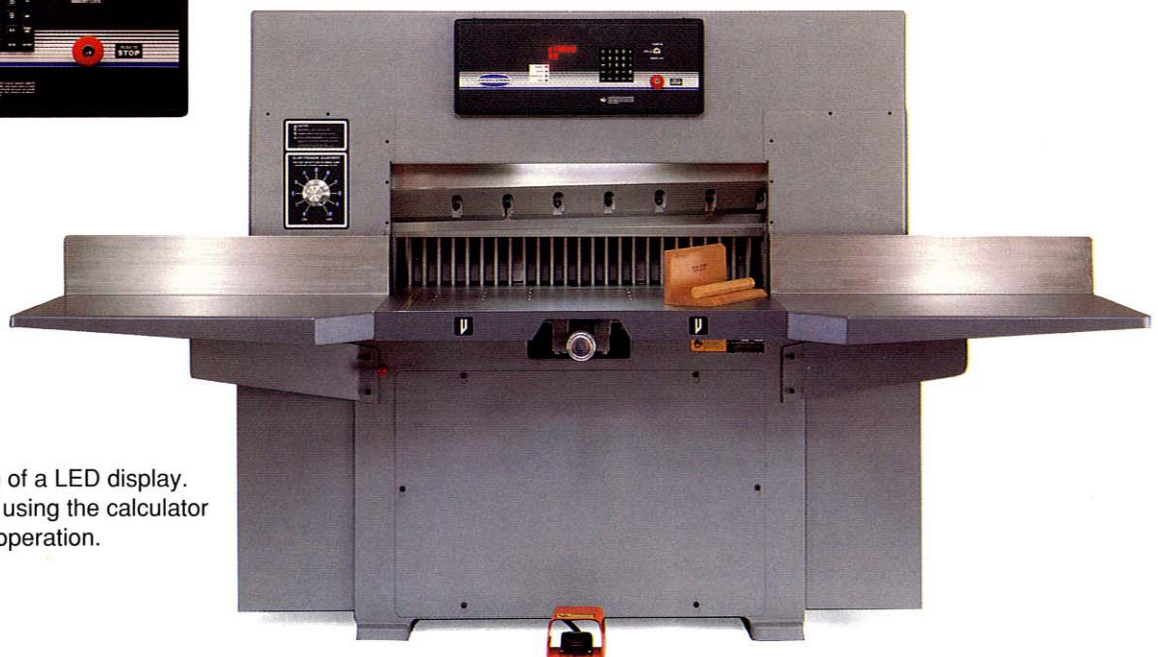
The 370 & 420 CRT

These cutters incorporate the use of a detailed CRT screen display, which visually prompts you through every step of the cutting application, insuring you efficiency and ultimate productivity.



The 370 & 420 PB and LED

These cutters incorporate the use of a LED display. All instructions are easily entered using the calculator keyboard providing fast, efficient operation.



Specifications

Cutting	37"	42"
Cutting Width	37" / 94 cm	42" / 107 cm
Clamp Opening	6" / 15 cm	6" / 15 cm
Maximum Clamp Pressure	1000 PSI	1000 PSI
Minimum Cut (without false clamp plate)	¾" / 1.9 cm	¾" / 1.9 cm
(with false clamp plate)	3" / 7.6 cm	3" / 7.6 cm
Backage Speed (fast/per second)	5½" / 14 cm	5½" / 14 cm
Knife Speed (strokes per minute)	40	40

Dimensions

Table (in front of knife)	26¾" / 68 cm	26¾" / 68 cm
(behind knife)	38" / 97 cm	42¼" / 107 cm
Table Height From Floor	37½" / 95 cm	37½" / 95 cm
Overall Height	69" / 175 cm	69" / 175 cm
Overall Length	99" / 252 cm	103" / 262 cm
Overall Width (without side tables)	70" / 178 cm	76" / 193 cm
(with side tables)	109" / 277 cm	114" / 290 cm
Will Pass Thru Door (assembled)	72" / 183 cm	78" / 198 cm
(knocked down)	38" / 97 cm	38" / 97 cm
Net Weight (approximate)	5340 lbs / 2422 kg	5700 lbs / 2585 kg
Shipping Weight (approximate)	5620 lbs / 2549 kg	6000 lbs / 2722 kg

Electrical - Computers are FCC approved

Standard Motor - 10 H.P., 3 Phase, 60 Hz, AC.

Available in 208 Volts/38 Amps, 230 Volts/33 Amps, or 460 Volts/16.5 Amps.

Service size 208 & 230 volts/60 Amps, 460 Volts/30 Amps.

Challenge reserves the right to make changes to any product or specification without notice and without incurring responsibility to existing units.

**For more information, please contact your local Challenge dealer or call
Challenge for the dealer near you: (800) 866-7800.**



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