

Q2

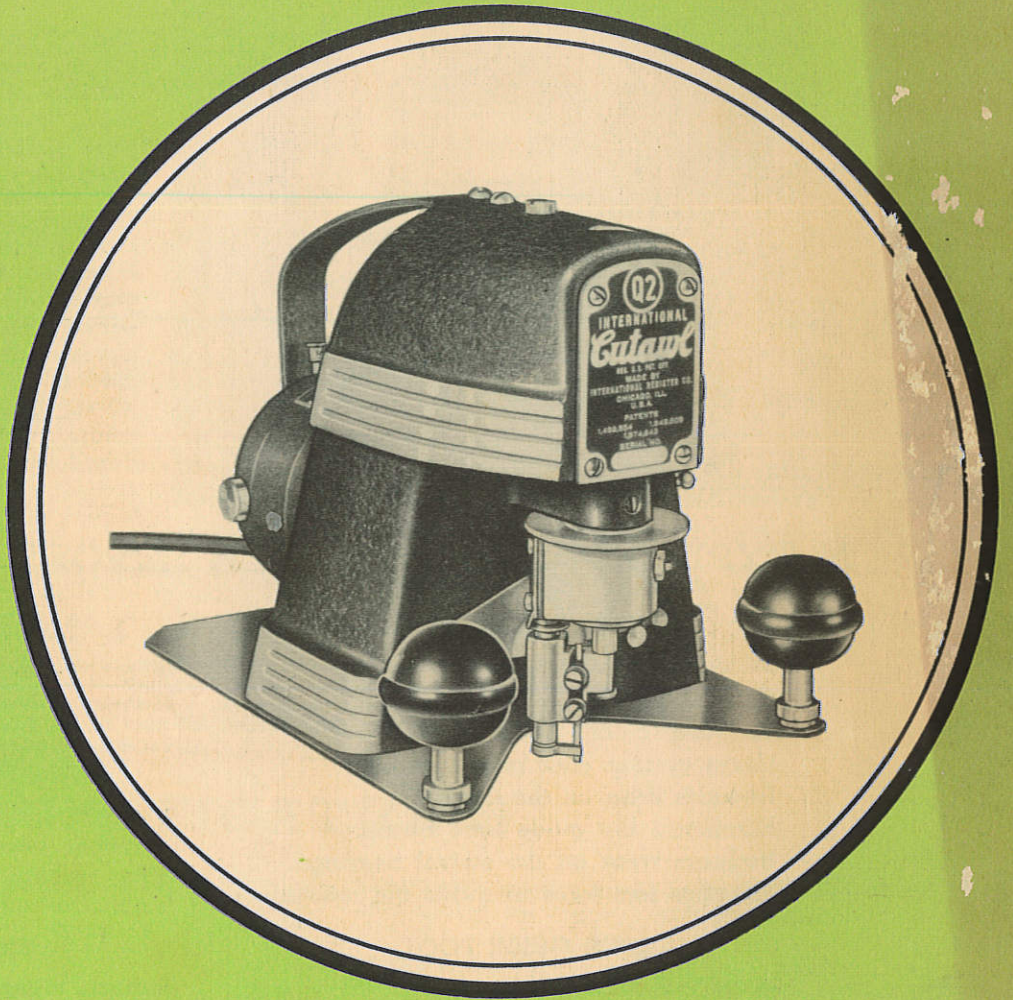
FOR FAIRS and EXPOSITIONS



FOR SIGN SHOPS



FOR THEATRES



Cutaway

FOR ALL CUTOUT WORK

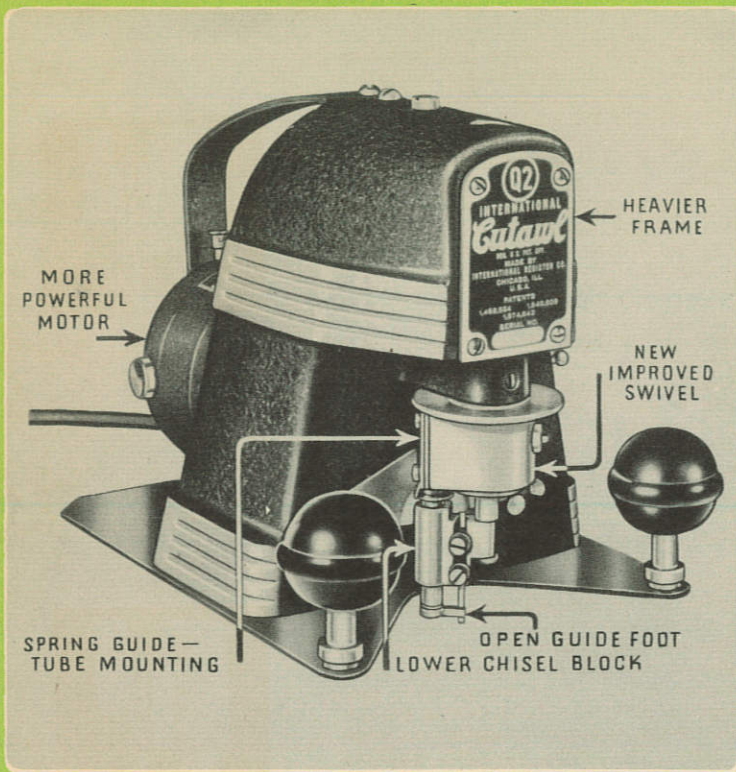
Q2 Cutawl

MOTOR DRIVEN POWERFUL QUIET



The Q2 Cutawl is designed to give the maximum in cutting service at the lowest price possible without sacrifice of quality. It is made to meet the need of sign shops, department stores and theatres which do not have sufficient volume of cutout work to justify the purchase of a larger Cutawl.

The low price of the Q2 Cutawl has been made possible through simplification. The machine is beautifully balanced, runs smoothly and almost noiselessly. It is guided over the work with the greatest readiness and with a minimum of physical effort. The swivel mechanism is similar to that used so successfully in the larger models of the Cutawl. Ball bearings are used to carry all rotating parts, which, combined with an effective central lubricating system, insures long life and freedom from repairs.



A NEW TYPE SWIVEL and OTHER IMPORTANT IMPROVEMENTS

NEW TYPE SWIVEL

- Increases chisel life.
- Gives smoother cutting.
- Increases cutting speed.
- Gives greater ease of operation.
- Reduces drag on the Cutawl.
- Eliminates the guide tube bushing.
- Reduces wear on the swivel bearings.
- Requires less force to guide the machine.

OPEN GUIDE FOOT

- Increases chisel life.
- Eliminates guide foot breakage.

LOWER CHISEL BLOCK

- Increases chisel life.
- Makes a better cut.

MORE POWERFUL MOTOR

- Increases Cutting speed.
- Increases ease of operation.
- Gives reserve power for heavy cutting.

MORE WEIGHT

- Reduces vibration.
- Gives smoother operation.



SHOW WINDOWS



INTERIORS



EXTERIORS

Q2 Chisel Action

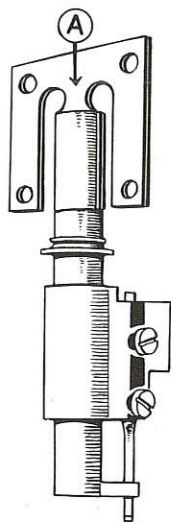


Figure 1

The leaf spring mounting of the guide tube on the Q2 Cutawl is illustrated at A.

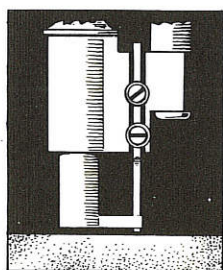


Figure 2

The spring mounted guide tube of the Q2 Cutawl assumes a vertical position as shown whenever the chisel is out of the work.

All Cutawls previous to the Q2 had rigidly mounted guide tubes, chisel blocks and chisels. With this construction the chisels, if flexible, bent when cutting as the Cutawl moved forward, as shown in Figure 4. If the chisels were rigid, as with some of the heavier types, the forward motion of the Cutawl was arrested whenever the chisel was in the work, so that the Cutawl progressed in a series of jerks instead of at a uniform even pace. In either case strain was put on both machine and chisel and chisel life was decreased and machine wear increased. Furthermore, since the machine could not be pulled forward at a continuous even pace, the cutting speed was greatly retarded and operation was made difficult.

To overcome the objection to the chisel action of previous Cutawls a completely redesigned swivel with a spring mounted guide tube has been incorporated in the Q2 machine. The spring mounting is illustrated in Figure 1. The spring is shown at A. The guide tube, chisel block and chisel are free to swing in a short arc. The backward swing is checked by a guard while the forward swing is arrested in a vertical position by the swivel body.

The chisel action of the Q2 is illustrated in Figures 2 and 3. Whenever the chisel is out of the work it is held vertically as shown in Figure 2. As soon as the chisel enters the work, the drag against the chisel caused by the forward movement of the machine flexes the spring mounting and swings the chisel block and guide tube backward as a unit so that they take the slanting position shown in Figure 3. The extent of the slant depends on the rate of forward movement of the Cutawl. While excessive incline is limited by the guard to prevent breakage of the spring mounting, sufficient deflection is provided to permit operating the machine at the optimum forward rate without placing undue strain on the chisel. The spring strength, machine speed and limit of deflection have been coordinated to insure smooth forward action, rapid cutting, greatly increased bearing life and reduced chisel breakage.

On the later Cutawls previous to the Q2 a closed type guide foot was necessary to support the lower end of the chisel. Because any excessive heat caused by the chisel rubbing against the foot tends to destroy the temper of the chisel and hence reduces its life, the closed guide foot is not ideal. Furthermore, if a chisel is set too high the guide foot might be broken when the chisel strikes it on a down stroke. To eliminate these drawbacks, an open guide foot is used on the Q2. The short fixed stroke and the lowered chisel block of this machine make this construction possible.

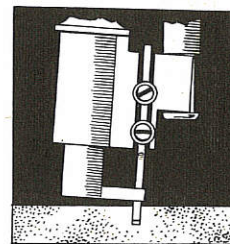


Figure 3

When cutting with the chisel in the work, the spring mounting of the guide tube flexes and the guide tube and chisel incline backwards as shown, without bending the chisel.

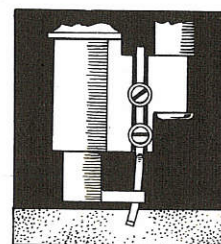


Figure 4

With a rigidly mounted guide tube the chisel is bent backward when in the work as shown above, resulting in hard and jerky operation of the Cutawl and reduced chisel life.

SPECIFICATIONS

- 1 **STROKE**—The stroke is set permanently at $\frac{5}{16}$ ". By adjusting the setting of the chisel in the chisel block and using the proper chisel, two layers of wallboard, $\frac{1}{4}$ " plywood and corresponding thicknesses of other materials can be cut at one time.
- 2 **SWIVEL**—A swivel similar in construction to that used on the larger Cutawls is employed. An improved ball bearing raceway insures maximum life and free turning no matter what the load.
- 3 **GUIDE TUBE, GUIDE FOOT AND CHISEL BLOCK**—The newly designed spring mounting for the guide tube, the lowered position of the chisel block and the new style foot greatly increase chisel life.
- 4 **IMPROVED WRIST PIN CONSTRUCTION**—The improved wrist pin construction insures longer life even under the most severe operating conditions.
- 5 **BEARINGS**—All rotating parts are carried in ball bearings. The chisel block, plunger shaft and wrist pin travel in special bronze bushings.
- 6 **MOTOR**—The motor is of the universal type which will operate equally well on direct or alternating current of any cycle, without the need of auxiliary apparatus of any kind. Its power has been increased to provide high speed and an ample reserve for heavy cutting.
- 7 **SPEED**—The chisel is driven at the rate of approximately 2800 strokes per minute, insuring fast, clean, accurate cutting.
- 8 **LUBRICATION**—All moving parts, exclusive of the motor, are lubricated by means of wicks drawing lubricant from two reservoirs. Two additional wicks lubricate the motor bearings. Oil leakage and possible marking of the work is eliminated.
- 9 **DRIVE**—The motor drives the mechanism by means of a non-slip, rubber V belt, which does not require attention or adjustment.
- 10 **CHISELS**—Most of the standard chisels may be used. Saws cannot be employed to advantage.
- 11 **ILLUMINATION**—A light located in the lower part of the frame, where it is protected from accidental breakage, provides adequate illumination to follow any design readily and easily.
- 12 **VIBRATION AND NOISE**—Vibration is practically eliminated by the use of counter-balanced parts, rigidly constructed and accurately fitted. The Q2 Cutawl operates very quietly, saving the operator physical and nervous strain in consequence.

The standard accessories, such as the carrying case and circle cutter, can be used in conjunction with the Q2 Cutawl. However, the saw table cannot be used with the Q2 machine.

The Q2 Cutawl will cut the following materials into practically any design:

Aluminum	Cloth	Celotex	Insulite	Paper, all kinds	Upson Board
Beaver Board	Compo Board	Felt	Lead Sheet	Plywood	Veneer, 3 ply
Billowpak	Cork	Fibre Sheet	Leather	Rubber	Wall Board
Brass Sheet	Cornell Board	Galvanized Iron	Linoleum	Steel Sheet	Wood
Cardboard	Celluloid	Homasote	Masonite	Stencil Board	Zinc Sheet

STANDARD EQUIPMENT

Subject to Change Without Notice

The standard equipment supplied with each Q2 Cutawl, is as follows:

3 No. 3 Chisels	3 No. 22 Chisels	1 Tube Lubricant	2 K4129 Chisel Block Screws	Instruction Manual
6 No. 11 Chisels	6 No. 28 Chisels	1 Can Oil	1 Screwdriver	

PRICES

(F. O. B. Chicago, Illinois)

Cutawl with 110-120 volt Universal motor and standard equipment	\$75.00
Cutawl with 220-230 volt Universal motor and standard equipment	80.00
Cutawls with special motors and lights for voltages other than the above	\$70.00 to \$100.00
depending on the voltage required. Give voltage wanted when ordering.	
Circle Cutter, complete for Q2 Cutawl	7.50
Carrying Case, with handle and serviceable lock	5.00

CHISELS

	1 to 4 Doz. Per Doz.	5 to 11 Doz. Per Doz.	Gross Lots Per Doz.
No. 3, for general cutting of fine designs in soft materials	\$1.50	\$1.25	\$1.00
No. 6, step cut for general cutting of hard materials	1.75	1.50	1.25
No. 11, knife edge chisel for general cutting of soft materials	2.50	2.25	2.00
No. 22, special saw chisel for cutting wood and metal	2.50	2.25	2.00
No. 28, for general cutting of thin layers of soft materials	0.85	0.85	0.75

ELECTRIC LAMPS

120 volt, 20 watt, special Cutawl lamps. Price, each	\$0.50
On 200 to 250 volts, a resistance is used in series with a 120 volt lamp.	

BELTS , price each	\$0.40
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CUTAWL LUBRICANT , price, per tube	\$0.25	per pound can	\$0.75
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CUTAWL OIL , price, per can	\$0.25
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ADVANTAGES OF THE CUTAWL

The effectiveness of the Cutawl in reducing costs and improving quality is due to a number of exclusive advantages not possessed by any other cutting machine. Each of these features is important in itself; combined they firmly establish the superiority of the Cutawl. Check over the list given below. Every point is vital.

- 1. Starts Cutting Anywhere.** The Cutawl starts cutting anywhere. It is not necessary to bore a hole from which to begin.
- 2. The Work is Stationary.** The material being cut is not moved or turned. It is fastened firmly in place on a convenient table or bench. The design is then cut out by sliding the compact and easily maneuvered Cutawl over the surface of the work. This can be done quickly and accurately.
- 3. Cuts Designs of Any Size.** There is no limit to the size of the pattern which can be cut. There are no arms, throats or projections to interfere with the free motion of the Cutawl. The electric cord carrying power to the machine can be made as long as desired and causes no hindrance.
- 4. Is Portable.** The Q2 Cutawl is small, being only 9 1/4" long, 6 3/4" high and 6 1/8" wide. It can be carried and used anywhere. This is a great advantage since it permits making large cutouts where they will be used, thereby solving many a difficult transportation problem.
- 5. Easy to Operate.** The Cutawl is easy to operate, requiring very little physical exertion. Boys, girls, women and even the seriously incapacitated can operate it without difficulty. Half an hour's practice is all that is necessary for the average person to learn to do good work.
- 6. Safe to Use.** There has never been a serious accident to a Cutawl operator.

GUARANTEE

We guarantee the INTERNATIONAL CUTAWL against defects of material and workmanship for SIX MONTHS from date of shipment, and will replace or repair defective parts free of cost provided they are returned transportation charges paid to the factory at Chicago.

INTERNATIONAL REGISTER COMPANY
 15 South Throop Street
 Chicago, Illinois