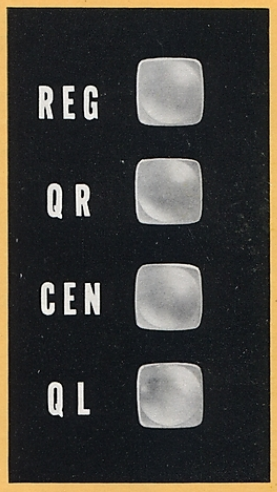
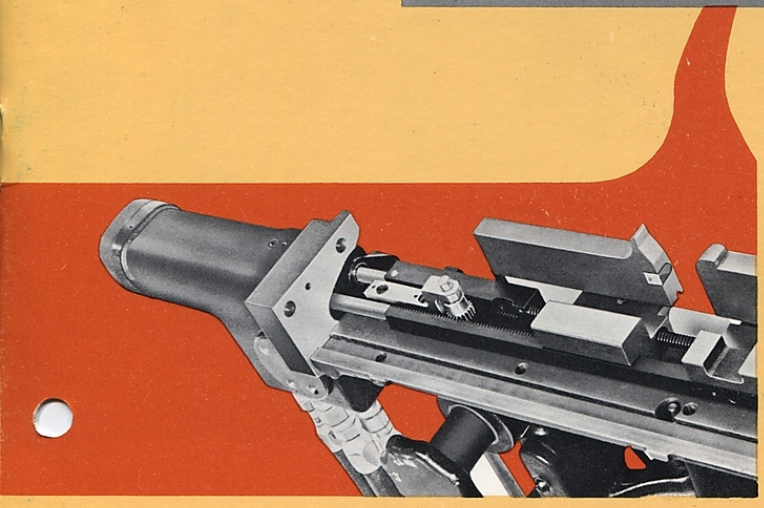
THE HYDRAQUADDER

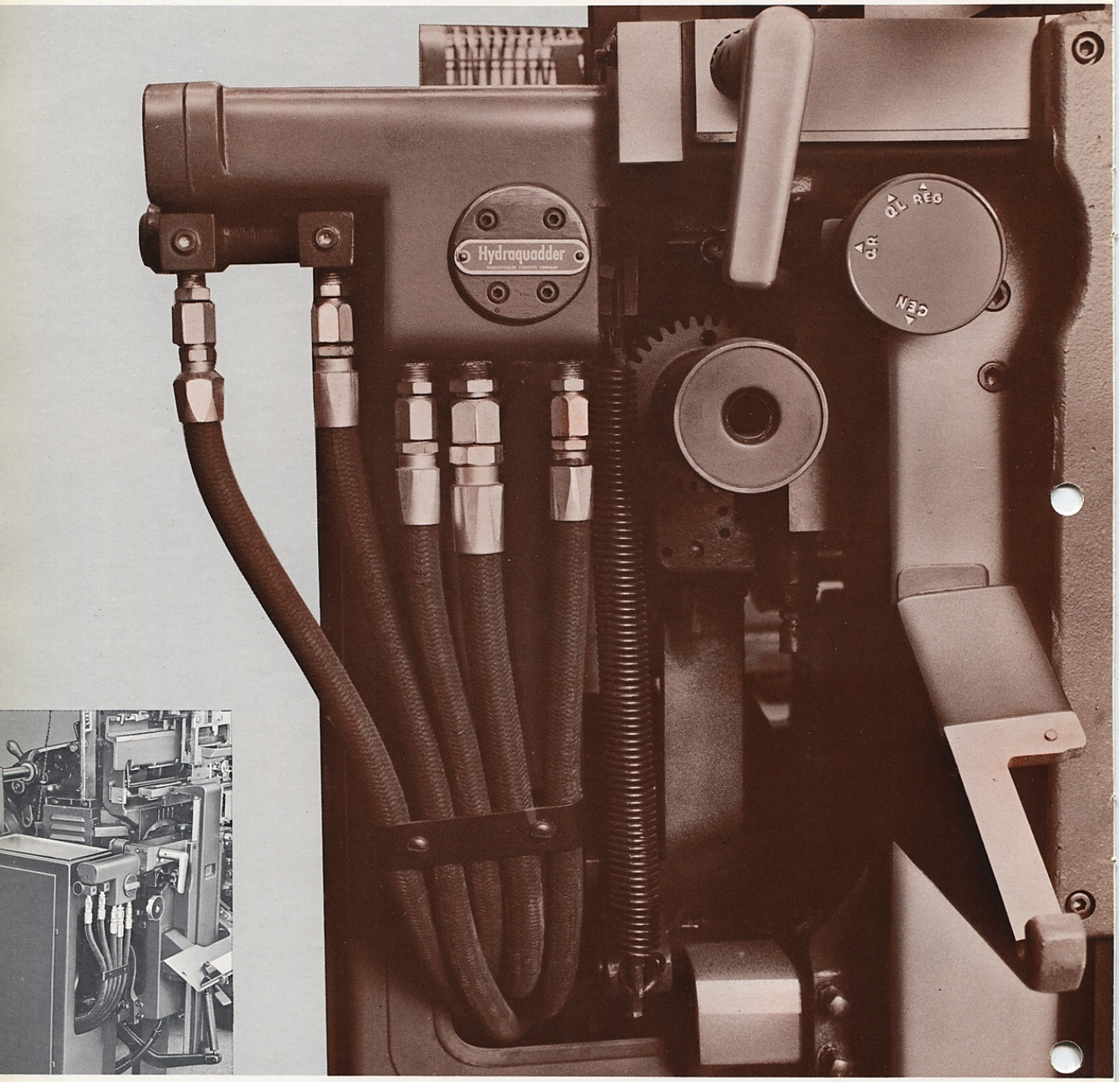


FOR MANUAL USE,
PUSH-BUTTON OR
TAPE OPERATION



Mergenthaler

The double-acting hydraulic cylinders are contained in the housing shown here. The hoses extend downward from the selector valve.



Hydraquadder hydraulic action design provides perfect accuracy and smooth jaw action.

The Mergenthaler Hydraquadder is an electromechanical-hydraulic Linotype accessory which automatically provides solid spacing on a slug when one or more words must appear flush left, flush right, or centered on the slug. Many years of successful performance have proven the design to offer maximum efficiency and accuracy, while requiring minimum maintenance.

When composition specifications call for white space with lines which are set flush left, centered, or flush right, the Mergenthaler Hydraquadder means savings . . . by enabling the operator to set quadded and centered matter at speeds faster than the simplest straight matter.

SIMPLE AND POSITIVE IN OPERATION

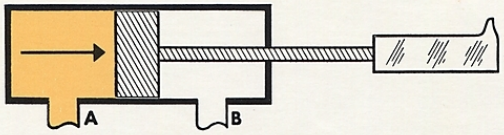
The Hydraquadder consists of three simple units: 1) a pump driven by the machine motor drive of the Linotype; 2) a control valve timed *from* and operated *by* the Hydraquadder cam to control the flow of hydraulic fluid; and 3) two double-acting hydraulic cylinders which drive the vise jaws. A selector valve directs the flow of fluid required for the various quadding functions.

The pump circulates the fluid continuously. When the cam shaft rotates, the control valve directs the fluid through hoses to the selector valve which regulates the flow to the cylinders. In each cylinder is a piston rigidly connected to a vise jaw. The hydraulic fluid, as regulated by the selector valve, acts on pistons and vise jaws.

Because of the controlled hydraulic force, the jaws close gently and smoothly at low velocity, preventing "slap". . . then grip firmly at high pressure for casting.

Each vise jaw is controlled independently by its own hydraulic cylinder when "quad left" or "quad right" are selected. Perfect accuracy is inherent in the design.

Setting measures in picas and points is accomplished manually on Blue Streak Linotypes with the Mohr Measure Control, furnished with the Hydraquadder. There is a choice of controls on the Blue Streak: one sets the left-hand vise jaw, the other control sets both the vise jaw and the assembler slide in one operation. A scale indicates the measure setting and the control dial is graduated in points for precision setting of odd measures.



Hydraquadder action is so smooth because of its hydraulic operation. A piston is rigidly connected to the vise jaw. Fluid enters the cylinder at A to move the vise jaw to the right, or at B to move it to the left. Controlled jaw motion prevents "slap."

With a Hydraquadder you can quad left, center or quad right –any size of type, any measure, any number of characters, smoothly and accurately, with or without spacebands.

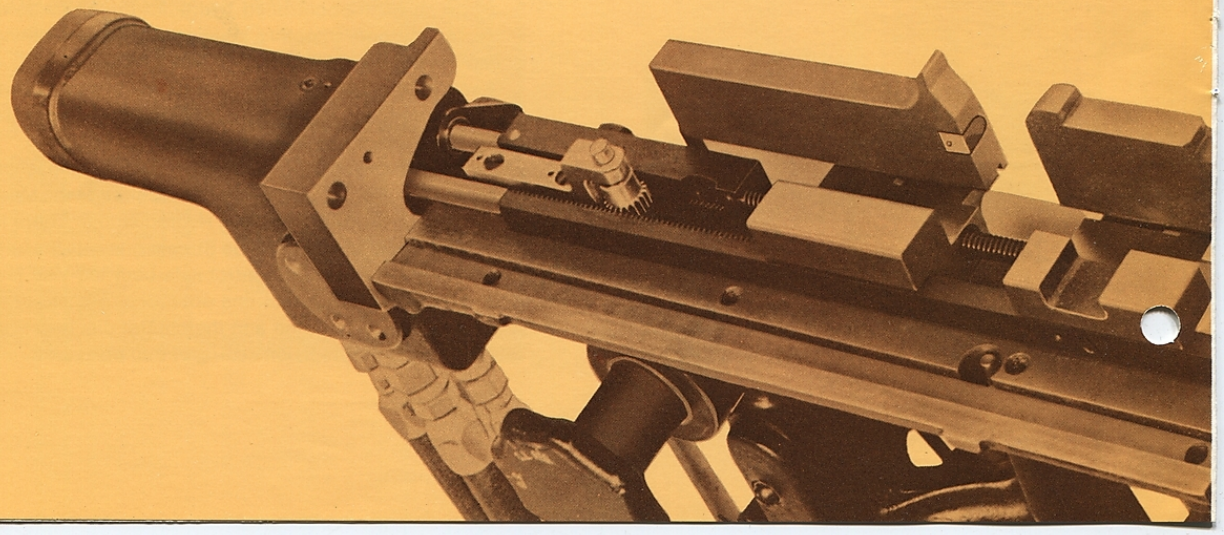
On Elektron Linotypes, measures are set by the normal machine measure control which gives a visible indication of selected line length in picas and points. Manual control can be provided on an Elektron at customer option.

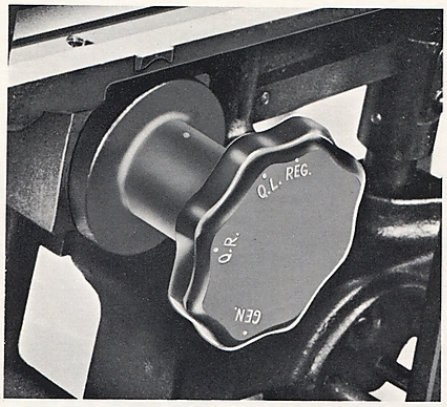
The Hydraquadder is designed to prolong the life of matrices. Its automatic jaw-wiping action removes metal which might accumulate on the face of the jaws *before* it can damage matrices. After casting takes place, vise jaw pressure is reduced precisely enough to allow matrices to wipe against the jaws without binding as they are elevated for distribution.

The left-hand vise jaw electrical safety button eliminates "squirts" by preventing a cast, whether quadding or operating "regular," unless the line is held firmly between the vise jaws.

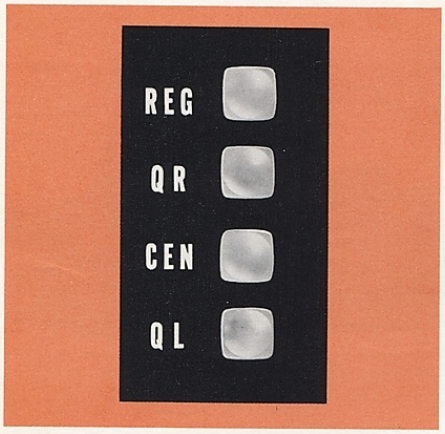
Vise jaws are automatically synchronized whenever "center" is selected. This synchronization equalizes the travel of the jaws, insuring that the line will be positioned exactly in the center of the measure. Since the jaws are driven independently, the line force is the same in centering as in quadding.

The direct, in-line design of the cylinders, pistons and vise jaws is simple and assures trouble-free operation.

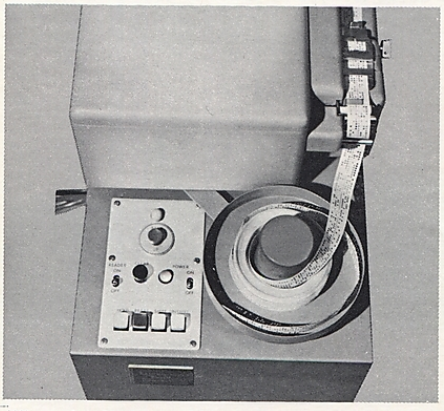




The Selector Knob, for left-hand manual operation, has four positions for Hydraquadder functions.



The Hydraquadder's four push buttons are conveniently located on the right of the Elektron keyboard.



When the Hydraquadder is used with tape it is plugged into the Linomatic Operating Unit and responds automatically to the signals on the tape.

Only Hydraquadder gives these advanced features

Available for manual, push-button or automatic tape operation, the Hydraquadder is independent of machine functions, except for timing operations, and operates quietly and smoothly at any machine speed. Maintenance is reduced to periodic lubrication.

MANUAL OPERATION

A single control, the Selector Knob, enables the operator to direct all the automatic responses of the Hydraquadder by turning it to any of the four indicated positions: *center, quad left, quad right* and *regular.*

The knob is located for convenient left-hand use. Operators soon learn to make the selection without even glancing up from the copy, and they can quad and center at better than straight matter speeds.

PUSH-BUTTON SELECTION

Four selector buttons, one for each of the four possible functions of the Hydraquadder, are conveniently located at the right of the keyboard (built-into the keyboard on the Elektron). The operator merely presses the button for the desired function and the Hydraquadder does the rest. Operation is continuous because the electrical system enables three lines to be in process at the same time.

The Hydraquadder's simplified electrical system is designed for trouble-free operation and servicing. Wiring is kept to a minimum and all relays and connections are of plug-in type and keyed to eliminate the possibility of error.

AUTOMATIC TAPE OPERATION

For tape operation, the Hydraquadder is simply plugged into the Linomatic Operating Unit. It then responds to coded signals on the tape. It operates accurately and dependably at speeds up to 15 lines a minute.

Changing from push-button to tape operation is automatic. The same electrical system is used for both tape and push-button operation. No switches, alterations or additional parts are required to change from one mode of operation to the other.

NEWSPAPER ABC FEATURE SYNDICATE

John R. Sloan
126 Nassau Street
New York, N. Y.
REgent 2-2100

JOB WORK

SUNDAY BUFFET

Cranberry Juice Cocktail *Red and White Canapes*
Chicken and Mushrooms a la King
Rice Ring
Radish Roses *Celery Curls*
Sponge Cake with Ice Cream *Maraschino Gelatin Mold*
Coffee

FINANCIAL TABLES

SALES AND EARNINGS

Net Sales	$293,267,408
Net Income	$ 9,536,181
Preferred Dividends	$ 1,253,765
Earned on Common Stock	$ 8,282,416

NEWS HEADS

Add Two Low-Priced Refrigerators To Line

Two low-priced refrigerators with de luxe features have been added to ABC's 1966 line of ma has been announced b Sloan, general manag hold Refrigerator Def

Only two feet wide frigerators provide m for apartment and sm installations and offer door shelves, vegetabl a full-width freezer co erto available only in priced models.

WORKMAN'S
Main Street Store

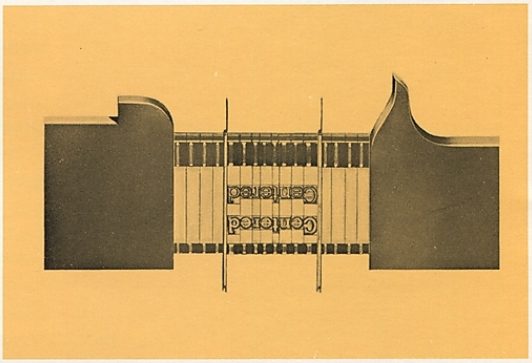
OFFERS
Challenging Opportunity
Recognition of Ability
Permanent Positions

If you feel qualified to sell
LADIES' SPORTSWEAR
BETTER READY TO WEAR
DEBUTANTE MILLINERY
CHILDREN'S WEAR
CORSETS

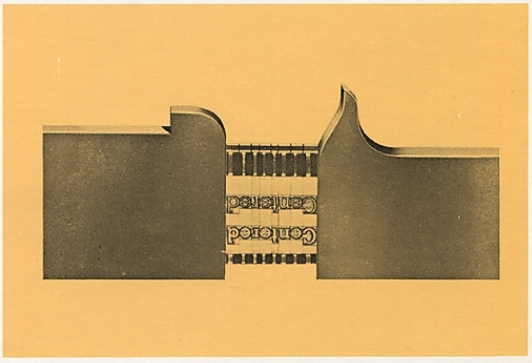
CLASSIFIED

New Ease and Economy in Display Composition

The Hydraquadder saves time and cuts costs on work such as display and classified composition. Not only does the operator do the job more easily, but the slugs also are ready for immediate use—quadded and cut to the measure before they are delivered to the galley.



A line set without a Hydraquadder is shown above. To center the line the operator had to count the spaces and manually transfer quads to equalize space at both ends of the line.



Below is the same line set with a Hydraquadder. The Hydraquadder took over and centered the line with perfect accuracy.

Set White Space Faster . . . Quad Without Counting

Without a quadder: To center a line, the operator must keyboard enough quads and spaces to fill out the line. He then counts them and puts half at the beginning and half at the end of the line.

With the Hydraquadder: There is no counting, no fussing, no delay. The operator simply sets the Selector Knob or pushes the button, then casts as if he were setting ordinary straight matter.

Announcing

THE LUNCHEON AND RECEPTION

to present our new

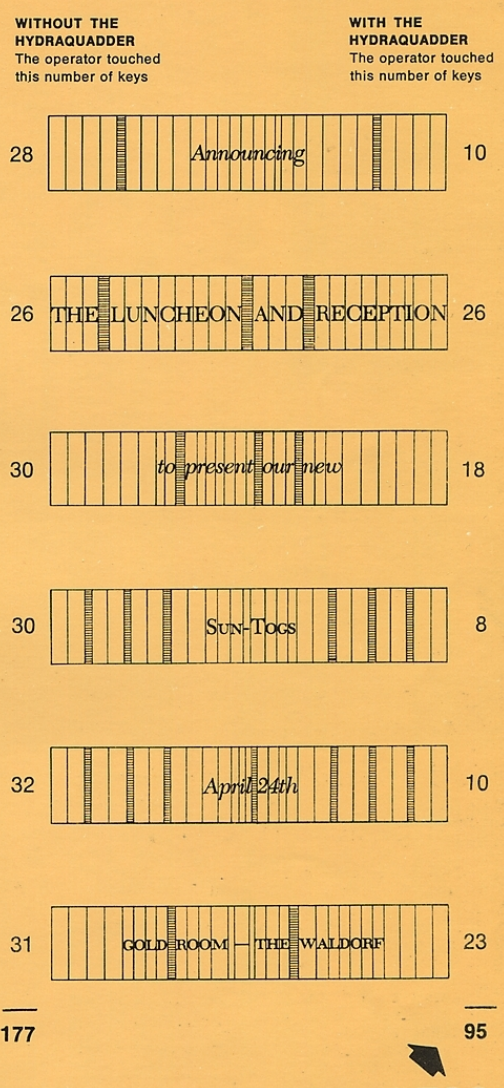
SUN-TOGS

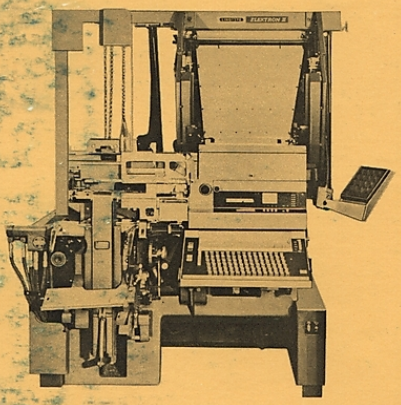
April 24th

GOLD ROOM — THE WALDORF

The Hydraquadder has proven itself by extensive use to be an invaluable production aid. Production executives, plant machinists and operators welcome the reliability, perfect accuracy and absence of maintenance which enables them to obtain a high production level with minimum fatigue and lower costs.

46% fewer keys were touched by an operator with a Hydraquadder





MERGENTHALER LINOTYPE COMPANY
29 Ryerson Street, Brooklyn, N. Y. 11205
A Division of ELTRA Corporation

ATLANTA 300 Luckie Street, N.W., Atlanta, Georgia 30313
BOSTON Park Square Building, Boston, Massachusetts 02116
CHICAGO 531 Plymouth Court, Chicago, Illinois 60605
DALLAS 1350 Motor Circle, Dallas, Texas 75247
LOS ANGELES 1212 Albany Street, Los Angeles, California 90015
NEW YORK 300 East 42 Street, New York, New York 10017
SAN FRANCISCO 155 Twelfth Street, San Francisco, California 94103
CANADA Canadian Linotype Company
Toronto · Montreal · Winnipeg · Vancouver

Mergenthaler

Printed in U.S.A. 760.125.2 (10-66-10M)