
ELROD MACHINES

| | Price | Code Word |
|---|------------|-----------|
| ELROD STRIP-CASTING MACHINE | | |
| complete with standard motor (without molds) | | |
| Model F (up to and including 36-point) | | |
| Electric-heated | \$4,465.00 | SALPA |
| Gas-heated | 4,125.00 | SALTY |
| Model E (up to and including 18-point) | | |
| Electric-heated | 3,965.00 | SALTA |
| Gas-heated | 3,625.00 | SALVE |
| Accessory box and bracket (when ordered with machine) | 90.00 | POONS |
| (See Elrod Auxiliary Equipment) | | |
| Model K (up to and including 18-point) | | |
| Electric-heated..... | 2,725.00 | KALEC |
| Gas-heated..... | 2,425.00 | KAGAS |

The following are standard Elrod electrical specifications:

| | |
|--|-------|
| 115 volt D. C. | ABANA |
| 115 volt A. C. 60 cycle, single-phase | ABBAS |
| 115 volt A. C. 50 cycle, single-phase..... | ABEAR |
| 230 volt D. C. | ABOMA |
| 208 to 240 volt A.C. 60 cycle, single-phase..... | ABOON |
| 208 to 240 volt A.C. 50 cycle, single-phase..... | ABRAM |

According to the manufacturer, motors used on Elrod machines will operate satisfactorily on an approximate 10% variation plus or minus in voltage. In other words, a 115 volt motor is designed to operate satisfactorily on any line voltage between 103 volts and 126 volts, and a 230 volt motor is designed to operate satisfactorily on any line voltage between 207 and 253 volts,

If the electrical specifications are 3-phase or other than one of the above, the price of the E and F machine is increased..... \$87.00
 Model K machine is increased..... 59.00

This charge covers not only the additional cost of special equipment but also the additional wiring costs on three phase (3 wire) equipment.

ELROD MACHINES

Model F Elrod Machine

The Model F machine will cast material of all thicknesses from 1-point up to and including 36 point.

The Model F machine has all the new developments included in the Model E machine, and in addition to these improvements is equipped with the following:

- Intermittent Stroke Mechanism
- Reinforced Cutter Head Support
- Balance Hand Wheel
- Additional Front Tie Rod
- Widened Pulleys and Belt
- Large Mold Chamber
- Mold Adapter
- Safety-Slide-Equipped Cut-Off Lever
- 24 and 36 pt. Stationary Knives
- 24 and 36 pt. Material Holding Detent
- 24 and 36 pt. Puller Slide Material Stripper Plates
- 24 and 36 pt. Puller Wedge Shim
- 24 and 36 pt. Material Clamp Bracket Plates

The material from the 24, 30 and 36-point molds can be cast only from Model F Elroda.

Model E Elrod Machine

The Model E machine will cast material of all thicknesses from 1-point up to and including 18 points.

Water

A $\frac{1}{2}$ " water supply line, reduced to $\frac{3}{8}$ " at the machine, should be provided for. A $\frac{1}{4}$ " drain is also required.

The water consumption varies according to the product being produced. The hair-line on 2-point and twin lead material ordinarily require approximately 15 gallons of water per hour to properly carry off the heat. The 36-point material requires as much as 55 gallons per hour.

ELROD MACHINES

Monomelt Installations

To install the Monomelt Feeder on an Elrod machine equipped with a pressure oiler, the Monomelt Company have found it necessary to move the pressure oiler away from the crucible and attach it to the back of the main table, opposite the puller mechanism.

Although no company can be expected to approve the changing of their equipment to meet conditions brought about by the installation of other equipment, the Ludlow Typograph Company offers no objection to this change, as it should not affect the operation of the machine. It should be clearly understood, however, that such changes are not to be made by our representatives, and that we are not responsible for any damage to the pressure oiler or any other part of the equipment brought about by such changes made in our equipment.

Use of "Hard" Metal in Elrod Machines

It is not intended that any metal other than standard line-type metal be used in Elrod machines. The use of so-called "hard" metal, such as standard Monotype metal, is not practical. This is particularly true if the metal contains any portion of copper, which is most injurious to Elrod molds.

The following tools and consumable supply items are included in the price of a completely equipped Model E or F Elrod slug casting machine:

- 1 No. AEC-1015 Elrod Cleaning Outfit
 - 1 No. AEC-1020A Mold Container
 - 1 No. EC-1536A Twin Lead Separator
 - 1 No. AEC-1882 Starting Strip Scraper
 - 1 No. AEC-1655A Mold Remover
 - 1 No. AEC-1019 Mold Sealing Plate
 - ✓ 1 No. AEC-1337B Metal Drip Cup \$8.15
 - 1 No. EC-1255 Wrench for Oiler
 - 1 No. 963 Bristo Set Screw Wrench (1/4")
 - 1 No. EC-1616 1/2 Bristo Set Screw Wrench (5/16")
 - 1 No. M-179 1/2 A Wrench (1/2")
 - 1 No. EC-1194 1/2 Wrench (3/4")
 - 1 No. EC-1519 Screw Driver
 - 1 No. AEC-1043 Screw Driver
 - ✓ 1 No. AEC-1520 Pliers \$5.60
 - 1 Gal. No. AEC-1250A-1 Elrod Mold Oil
 - 6 No. EC-1318B Shearing Pins
 - 1 No. AEC-1281C Oil Diffusion Tube
 - 1 AFG-700 Pressure Oil Can
 - 1 Set AFG-125 Hexagon Socket Key
Wrenches
- A quantity of Starting Strips

ELROD MACHINES

The following tools and consumable items are included in the price of a completely equipped Model K Elrod slug casting machine.

- 1 No. AEC-1015 Elrod Cleaning Outfit
- 1 No. A-3020 Mold Container
- 1 No. 1536-B Twin Lead Separator
- 1 No. A-1532 Special Starting Strip
Scraper
- 1 No. A-1655-A Mold Remover
- 1 No. A-1019 Sealing Plate
- 1 No. A-1937-B Drip Cup
- 1 No. 1255 9/16" x 3/4" Wrench
- 1 No. M-179 1/2-B 3/8" x 1/2" Wrench
- 1 No. 1519 Screwdriver
- 1 No. A-1520 Special Mold Pliers
- 1 Set AFG-126 Hexagon Handi Key
Screwdriver For 3916
- 1 Set AFG-125 Hexagon Socket Key
Wrenches
- 1 No. A-1250-A-1 Mold Oil
- 1 No. A-1281-C Diffusion Tube
- 6 No. 1318-B Shear Pins
- 1 No. A-1328-C Mold Cover
- 1 No. AFG-700 Pressure Oil Can
- A Quantity of Starting Strips

ELROD PRODUCTION CHART

| Body Size | Height | Can Be Cast on Models | App. Stroke (ems) | Speed | App. ft. per Hour | App. lbs. per Hour |
|---------------|--------|-----------------------|-------------------|-------|-------------------|--------------------|
| 1 pt. twin | .765 | All models | 3 | High | 400 | 19 |
| 2 pt. single | .765 | All models | 6 | High | 420 | 40 |
| 2 pt. twin | .765 | All models | 5 | High | 750 | 70 |
| 2 pt. | Rule | All models | 5 | High | 325 | 35 |
| 3 pt. | .765 | All models | 7 | High | 500 | 70 |
| 4 pt. | Rule | All models | 5 | High | 350 | 80 |
| 6 pt. | .765 | All models | 6 | High | 400 | 115 |
| 6 pt. | Rule | All models | 5½ | Low | 240 | 80 |
| 12 pt. hollow | .765 | All models | 6 | Low | 275 | 100† |
| 12 pt. solid | Rule | All models | 5 | Low | 225 | 125 |
| 18 pt. hollow | .765 | See X below | 5 | Low | 225 | 135† |
| 18 pt. hollow | Rule | See X below | 4½ | Low | 200 | 140† |
| 24 pt. hollow | .765 | F only | 7½ | High* | 180 | 130† |
| 24 pt. hollow | Rule | F only | 6 | High* | 140 | 125† |
| 30 pt. hollow | .765 | F only | 6 | Low* | 100 | 90† |
| 30 pt. hollow | Rule | F only | 5 | Low* | 85 | 100† |
| 36 pt. hollow | .765 | F only | 6 | Low* | 100 | 105† |
| 36 pt. hollow | Rule | F only | 5 | Low* | 85 | 115† |

High speed = 84 strokes per minute

Low speed = 54 strokes per minute

* Cast with intermittent stroke.

† A saving in metal of approximately one-third is effected by use of Elrod Hollow Body Material.

(X) Eighteen-point material can be produced on the Model F, the Model E, all new Model D Elrod machines serial #933 and up, and on rebuilt Model D or Model Ds Elrods shipped after July 1, 1927.

MOTORS & CRUCIBLES FOR ELROD MACHINES

Price Code Word

Elrod motor 1/4 H.P., 1725 R.P.M. with pulley and set screw.

(Standard electrical specifications.)

This size motor is used on all models.

Alternating Current, Single Phase..... \$ 38.50

Direct Current..... 77.25

Three Phase Motor Only..... 62.00

Special Voltages Additional Charge..... 62.00

Model F Electric-Heated Crucible

Complete with all heating units, etc., minus control panel and minus resistors for throat and sealing heaters.

(No. AEC-1302 1/2 EA) 840.00 RADAS

Model E Electric-Heated Crucible

Complete with all heating units, etc., minus control panel and minus resistors for throat and sealing heaters.

(No. AEC-1302 EC) 840.00 TESTA

Model F Gas-Heated Crucible

(No. AEC-1802 1/2 A) 500.00 PONYS

Model E Gas-Heated Crucible

(No. AEC-1802 A) 500.00 FOODS

Model K Electric-Heated Crucible

(No. AEC-3900)..... 680.00 COMPA

Model K Gas-Heated Crucible

(No. AEC-3800)..... 450.00 CONCO

Model DR Gas-Heated Crucible

Complete with cast-iron casing, sealing valve, etc., and also including a complete Pressure Oiler.

(This assembly intended for installation on old Model D Elrod machines in the field) 481.50 HEUGH

Please note that no electric-heated machine can be converted into a gas-heated machine, either in the field or at the factory. Likewise, no gas-heated machine can be converted into an electric-heated machine. This is because of fundamental differences in the construction of the main table and other parts of the electric-heated and gas-heated Elrod machines.

MOTORS & CRUCIBLES FOR ELROD MACHINES

Electric-Heated Crucible (for Model F and Model E only)

According to the manufacturer, motors used on Elrod machines will operate satisfactorily on an approximate 10% variation plus or minus in voltage. In other words, a 115 volt motor is designed to operate satisfactorily on any line voltage between 103 volts and 126 volts, and a 230 volt motor is designed to operate satisfactorily on any line voltage between 207 and 253 volts.

Electric power consumption (8-hour day average including full flow for heating-out time of approximately one hour) equals 2 K.W.H. per hour.

As the maximum demand of the crucible and motor is 4600 watts, a #8 wire for 110 volts and #10 wire for 230 volts is required to bring the power to the machine.

Many buildings are not equipped with a #8 wire for the 110 volt circuit. Therefore, if the customer specifies 110 volt equipment, be very sure that the building is wired to take the maximum demand.

Gas-Heated Crucible

The gas-heated crucible on the Model F and the Model E machines is controlled by an automatic thermostat and a gas pressure regulator.

On orders for gas-heated Elrod machine always furnish gas specifications.

The gas consumption (over an 8-hour day, including full flow for heating-out time of approximately one hour) for the Model F and Model E machines equals approximately 28 cu. ft. (800 BTU gas) per hour. Connection 1/2" gas pipe to machine.

In those localities where neither gas nor electricity for heating is available, a bottled gas (Butane or Propane) may be used successfully with the standard Elrod Gas Crucible, the only change required being in the size of the spuds. The proper size spuds will be included in the Gas Crucible without extra charge provided proper information as to the B.T.U.s. per cubic foot and pressure at the machine are furnished with the order. There are a number of brands of bottled gas available. To our knowledge, Shellane, a product of the Shell Oil Company, is being used successfully on Gas-Heated Elrod Machines.

ELROD MACHINE IMPROVEMENTS

| | Price | Code Word |
|--|----------|-----------|
| Pressure Mold Lubricator | | |
| On all Improved Model D, Model DS, Model E Elrod Machines shipped after Feb. 1, 1931. On all Model F Elrod machines. | | |
| Can be installed by any competent mechanic on any Model D Elrod machine Serial No. 350 and above and on any Model E Elrod machine. | | |
| For field installation on Model E and F Elrods..... | \$168.00 | SCIOG |
| For field installation on Model D Elrods | 232.00 | SAMBO |
| Price does not include installation. | | |
| Plunger Gag. (AEC-1314 1/2)..... | 38.25 | HICHT |
| On all Model F Elrod machines. | | |
| On all Model E Elrod machines shipped after Sept. 15, 1936. | | |
| Can be installed on any Model E Elrod machine in the field. Price does not include installation. | | |
| Cannot be installed on Model D or DS Elrod machines in the field. | | |
| Extended Mold Housing to Accommodate Long Diffusion Tube; Side Water Jacket Caps. | | |
| On all Model E and Model F Elrod machines shipped after January 18, 1937. | | |
| Cannot be installed on crucibles in the field. For installation on machines in the field, the complete crucible must be replaced. | | |
| Improved Water Supply and Drain System, including two-way Water Valve. | | |
| On all Model E and Model F Elrod machines shipped after January 18, 1937. | | |
| Cannot be installed on machines in the field. | | |