

# PRODUCTION CALCULATORS

## MACHINING TIME CALCULATORS

### Models F.1, F.2, F.3

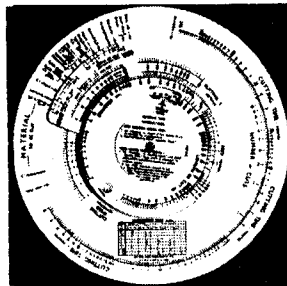
These calculators provide a complete system of unequalled simplicity for determining consistent machining times, quickly, easily, and accurately, without time study. The information they provide is so complete that they may be used by personnel with very limited experience.

Three separate calculators are available, as described below, one for each of the most common groups of machining operations. In each case the total floor-to-floor time for a particular operation is obtained by adding together time elements determined in three separate places on the calculator.

**Cutting Time:** Read off directly on the front of the calculator after setting dials to relevant details of operation. Information on cutting speeds and feeds is also incorporated.

**Loading & Handling Time:** Separately determined by a simple setting of dials on the reverse side of the calculator. All necessary allowances relating to weight, size, accuracy, type of operation, etc., are taken into account.

**Set-up Time:** Determined in another section of each calculator.



## LATHEWORK CALCULATOR Model F.1

Calculates times for turned components of all kinds on center lathes, turret lathes and boring mills. Extremely wide range.

7-1/2" Diameter

## MILLING CALCULATOR Model F.2

Calculates times for all kinds of milling operations on vertical or horizontal milling machines. All types of cutters, fixtures, dividing heads, etc.

7-1/2" Diameter

## DRILLING, REAMING & TAPPING CALCULATOR Model F.3

Calculates times for drilling, reaming, or tapping holes of all sizes in lathes, single and multi-spindle drills.

7-1/2" Diameter

## WELDING TIME CALCULATOR FOR MANUAL METAL ARC WELDING

### Model P51A

A calculator for rapid and easy calculation of welding times for all sizes of fillet weld. Indispensable to Estimators and Manufacturing Engineers.

Completely new and based on the most up-to-date information. Calculates accurate and consistent welding times, and number of electrodes required. Covers all kinds of fabrication work produced by manual metal-arc (stick type) welding. Equally suitable for the small or large shop.

Eliminates laborious calculations. A simple setting of the dials to the weld sizes and details, and it calculates:

- Arc times for full welds.
- Deslag and brush times.
- Ancillary time (electrode changes, etc.)
- Total weld times.
- Number of electrodes required.

**Scope**—The calculator has a wide range suitable for almost any size of fabrication, large or small, and covers the following:

Fillet weld sizes—1/8" to 1"

Weld lengths—from 1" to 1,000 feet

Welding position—any

Electrode types—cellulose; rutile; rutile heavy; basic hydrogen-controlled; (with ASW references).

**Quality & Reliability**—Made from high grade, non-warping acrylic, with fully-engraved scales. A high quality instrument of sturdy, careful construction to give many years of regular daily use. Supplied complete with an attractive case.

7-1/2" diameter x 1/4" thick

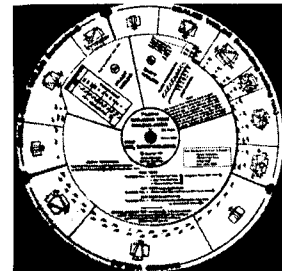


## WELDING TIME CALCULATOR

### FOR MIG CO<sub>2</sub> WIRE WELDING

#### Model P50A

A disc calculator for rapid and easy calculation of welding times. Covers almost all types and sizes of butt and fillet weld. Indispensable to Estimators and Manufacturing Engineers. Completely new and based on the most up-to-date information on Mig wire welding. It calculates accurate and consistent welding times and is suitable for almost all kinds of welding and fabrication work, large or small in size.



Eliminates laborious calculations—by a simple setting of dials it calculates:

- Arc time for full weld. (Also indicates suitable wire feed rates for given current amps.)
- Additional sealing run preparation time, for sealed welds.
- Total Wire length usage; number of stops; stop time ancillaries.
- General ancillaries.

**Scope**—For semi-automatic Mig welding of carbon steels.

Fillet welds—1/8" to 1"

Butt welds—Backed, unbacked and sealed for plates from 1/16" to 1" thick

Weld lengths—1/2" to 35 feet

Welding wire size—.030" to 1/8" dia. (solid and flux-cored).

**Quality & Reliability**—Substantially made from high grade, non-warping acrylic with fully-engraved scales. Sturdy construction to give many years of use, and supplied complete with attractive case and instructions.

7-1/2" Diameter x 5/16" thick

## FLAME-CUTTING CALCULATOR

### For Machine or Manual Flame Cutting Model P.56A

A disc calculator for rapid and easy calculation of flame-cutting times and quantity of gas and oxygen consumed. Indispensable to Estimators and Manufacturing Engineers.

Completely new and up-to-date, this unit covers machine and manual flame-cutting of all sizes of plate up to 12" thick, with allowance for operator skill and material quality.

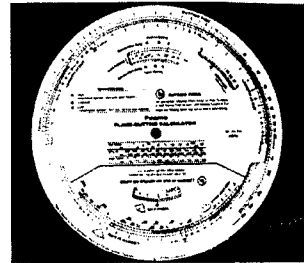
Eliminates Laborious Calculations—simple and easy to operate, the calculator has four sections which, by a simple setting of dials, successively calculates:

- Lengths of cut for circular arcs. (to simplify profile length calculation.)
- Flame-cutting times for almost any size of plate or profile shape. (also indicates cutting speeds.)
- Quantity of pre-heat oxygen and gas consumed. (acetylene, propane or natural gas.)
- Quantity of cutting oxygen consumed.

**Scope:** For manual or machine flame-cutting of steel plates up to 12" thick. Any cut from 1/2" to 60' long, using acetylene, propane or natural gas.

Made from high grade, non-warping acrylic with multi-color engraved scales. A high quality instrument of sturdy construction designed to give many years of use. Supplied with instructions and case.

7-1/2" diameter x 1/4" thick



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