

PRODUCTION CALCULATORS

PRODUCTION ENGINEER'S CALCULATOR

Model F.5

Machine Horsepower Requirements: Computes machine horsepower required for any given combination of cutting speed, feed, depth of cut and material.

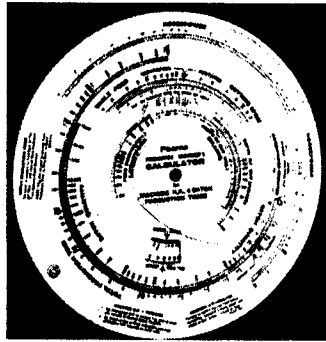
Batch Production Times: Calculates batch production times for a given quantity and time each (or number per hour), or vice-versa.

Machining Times: Calculates machining times for turning, milling, drilling, etc. for given feed rate, cutting speed, diameter, length and number of cuts.

Speed, Feed, and Spindle R.P.M. Calculations: Works out speeds, feeds, spindle r.p.m., etc., including conversion between feed/min. and feed/rev.

An indispensable tool for any production engineer and a great time-saver. All scales have extremely wide range, sufficient to cover almost any size of work.

7-1/2" Diameter



GEAR HORSEPOWER CALCULATORS

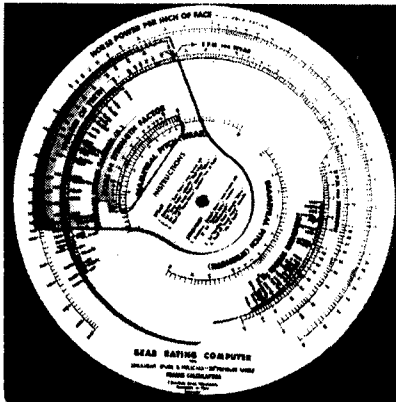
Model F.42

These calculators are used for determining the horsepower transmitting capacity of gears of all kinds and sizes.

Each calculator reduces the previous laborious calculations to a simple matter of setting dials and reading out the answer. Completely reliable and with scale ranges to cover almost any condition or size of drive.

7-1/2" Diameter

Model F.42 SPUR & HELICAL GEAR



CALCULATOR FOR PLATE BENDING PRESSES

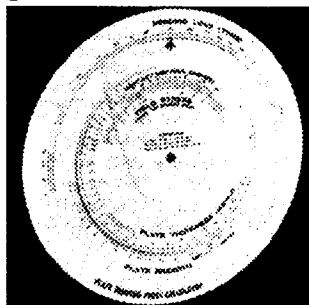
Model F.9

An ingenious, simple-to-use, instrument which, by a simple setting of two dials, immediately computes the bending load, in tons, required to bend any size of steel plate.

Equally quickly it will determine the maximum plate sizes which may be bent in any particular bending press. Robust construction for regular daily use in workshop or office and requires no mathematical ability, or knowledge of slide-rules to operate. Should form part of the equipment of every fabricating shop.

For plate thicknesses from 1/2" to 8" and bending loads to 5000 tons.

Double sided Dual English-Metric
Main dial 7 1/2" diameter, 1/4" thick



POWER PRESS CALCULATOR

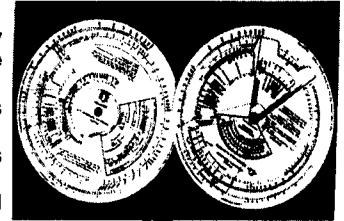
Model F.46

Eliminate trial-and-error and lengthy calculations. A simple setting of one or two dials gives instantly:

- Press tonnage required for all kinds of punching and blanking operations.
- Press tonnage required for all kinds of drawing and forming operations.
- Limiting deep drawing ratios for all sizes and shapes of shell.
- Die clearances for punching and blanking.
- Gauge and thickness conversion.

An indispensable aid in any design, tooling or production department concerned with presswork. Results in more efficient uses of presses and minimizes danger of breakdown due to overloading.

Suitable for presses up to 1,000 tons and metal thickness up to 0.5".
7-1/2" Diameter Dual English-Metric



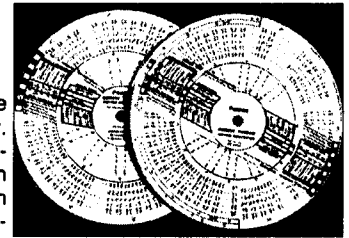
SCREW THREAD METRIC CONVERTER

Model F.45

An economically priced, simple-to-use screw thread selector and converter.

This unit is quite comprehensive, covering all standard American and British threads up to 1 1/2" diameter. All modern screw thread details are at your fingertips, including: tapping and clearance drill sizes, threads per inch, root areas for strength calculations, (all with metric equivalents), plus a rapid and ingenious system for quickly determining the closest equivalent metric thread in the ISO fine and coarse series. A "must" for every engineer and designer.

5-1/2" Diameter

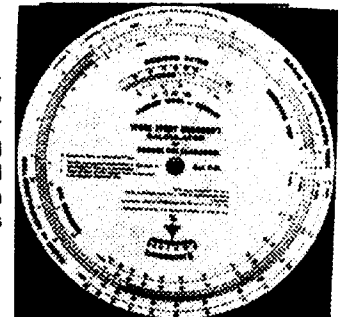


WORK STUDY ENGINEER'S CALCULATOR For STANDARD TIME CALCULATIONS

Model F.39

Indispensable to Work Study Engineers in any industry, this unit rapidly converts observed times to basic or normalized times at any required standard rating level. An additional section is provided for rapid calculation of percentage additions or reductions to times.

5-1/2" Diameter



ESTIMATOR'S UNIVERSAL CALCULATOR

Model F.4

A reduced size simplified version of the Production Engineer's Calculator (Model F.5), incorporating the machining time and speeds and feeds sections only.

A valuable tool for the personal use of estimators and foremen.

5" Diameter

