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PLaza 5 - 4466



THE TAFT-PEIRCE
24" LAPPING MACHINE

THE TAFT-PEIRCE MANUFACTURING COMPANY
WOONSOCKET, RHODE ISLAND
CATALOG NO. 311

The TAFT-PEIRCE 24" LAPPING M

The Ideal Machine for Finishing . . .

Cylindrical Machined Parts
Small Flat Work
Small Pump Housings,
Valve Fittings . . .
Any Parts Requiring a Flat or Cylindrical Lapped Finish



Flat-lapping a pump housing for an oil-tight seal. The Taft-Peirce 24" Lapping Machine is ideally suited for lap-finishing of plane as well as cylindrical surfaces.



Lapping a cylindrical part on the New Taft-Peirce 24" Lapping Machine.

THIS versatile Taft-Peirce Lapping Machine is designed to impart that last critical element of finished precision to plane or cylindrical surfaces of small and medium-sized parts. In both the tool room and the production shop, it offers a fast and accurate means for obtaining superfine finishes and true contact surfaces.

Basically, the machine consists of a circular lapping plate, 24" in diameter, which rotates on a motor-driven vertical spindle, supported in roller bearings and located within the base.

The action of the machine is both simple and fast. Flat lapping is accomplished by subjecting the plane surface of the work to the continuous rotary abrasion of the lapping plate, which may be charged with a suitable lapping compound. Cylindrical work is held on centers in a special fixture provided for the purpose and is rolled in contact with the rotating plate.

Though extremely low in original cost, and economical in operation and maintenance, the Taft-Peirce Lapping Machine has the speed and capacity required for rapid processing of parts on a production line basis. In many cases, it will eliminate the need for highly complex and expensive machine tools.

THE TAFT-PEIRCE MANUFACTURING COMP

MANUFACTURERS OF MACHINE TOOLS, MAGNETIC CHUCKS, SMALL TOOLS, AND GAGE

ACHINE . . . the high precision, economical way to obtain a SUPERFINE FINISH!



LAPPING PLATES — PLAIN OR GROOVED

Designed to impart a highly accurate and superfine finish, the lapping plates of the Taft-Peirce Lapping Machine are constructed of a special analysis of close-grained cast iron, devised particularly for lapping purposes. All plates are carefully heat treated to prevent distortion from seasonal changes. Working surfaces are precision ground within close tolerances to ensure the high degree of flatness required for fine lapping operations.

Plates are available with either plain or grooved working surfaces. Plain plates are best suited for lapping cylindrical work; grooved plates, which have a working surface serrated with vee-grooves .040″ deep x ½″ spacing, are preferred for lapping flat work only. Plates may be readily interchanged on the machine in only a few minutes time by removing the circular guard and unscrewing the plate originally in use.

Charging of the plate with lapping compound, or resurfacing, when necessitated by normal wear, can be accomplished simply, by means of a resurfacing block, illustrated on page 4, which is available as an accessory.

STEEL BASE

Fabricated of heavy gauge steel plate, the modern streamlined base provides adequate rigidity and support for precision lapping operations. The motor drive and gear reduction unit are fully enclosed within the base.

DRIVE

A ¾ h.p. motor and vee-belt drive transmit power through a worm gear reduction and roller-bearing spindle to impart a smooth rotary motion at constant speed to the lapping plate. A large door in the base permits easy access to the driving mechanism for inspection and maintenance.

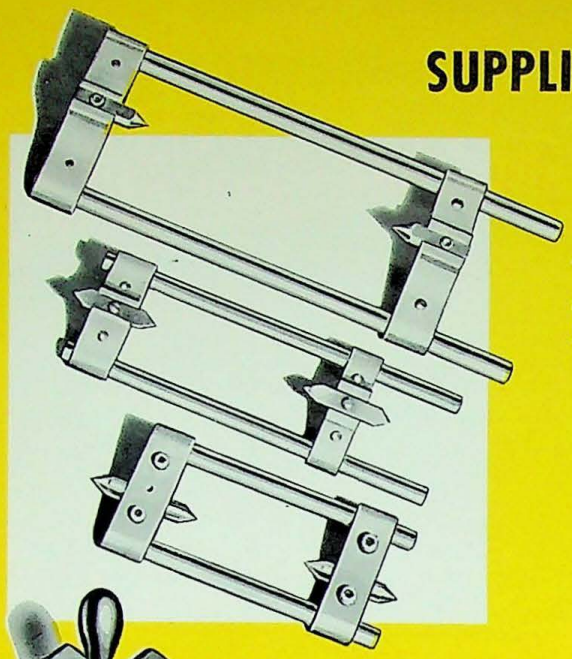
OTHER FEATURES

Drip pan beneath table to trap overflow of lapping compound. *Circular Table Guard* easily removed for cleaning. *Motor Control Switch* located on base convenient to operator. *Roller-bearing Support* and *Sealed Lubrication* throughout assure continuous service over the years with minimum maintenance.

Plate Diameter	24″
Plate Height from Floor	37½″
Plate Speed	40 R.P.M.
Base Dimensions (floor)	24″ x 24″
Net Weight	550 lbs.
Shipping Weight	625 lbs.
Motor	¾ H.P.

(Voltage to customer's specification)

SUPPLIES AND ACCESSORIES

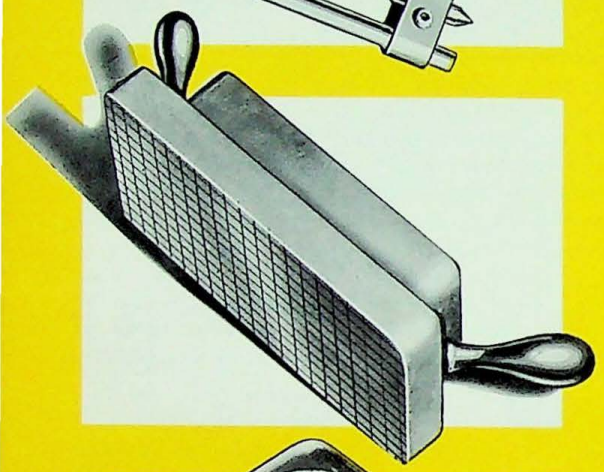


ADJUSTABLE HOLDING FIXTURES FOR CYLINDRICAL LAPPING

These fixtures provide a convenient means of holding cylindrical work against the plate during the lapping process. Centers are adjustable for length. Three standard sizes are available from stock as indicated below:

Style No.	Capacity: Work Diameter	Capacity: Max. Length Between Centers
#9665–1000	5/8" to 4"	10"
#9665–1005	1/2" to 2"	6 1/2"
#9665–1010	1/8" to 3/4"	3 1/2"

Special designs and sizes available on order.



RESURFACING BLOCK

(Style No. 9665–1020)

The Resurfacing Block, with grooved and ground face and two convenient handles, will be found very useful for charging the lapping plate with abrasive compound and for refinishing the lapping surface when necessitated by normal wear.

Face Size	10" x 6"
Net Weight	31 lbs.
Shipping Weight	40 lbs.



ABRASIVE LAPPING COMPOUND

We shall be glad to recommend and supply the abrasive best suited to your particular requirements. Available from stock in 5 lb. tins.

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564 West Randolph

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10700 Puritan Ave.

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14 Bobrich Drive, Apt. 26

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WOONSOCKET, RHODE ISLAND

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