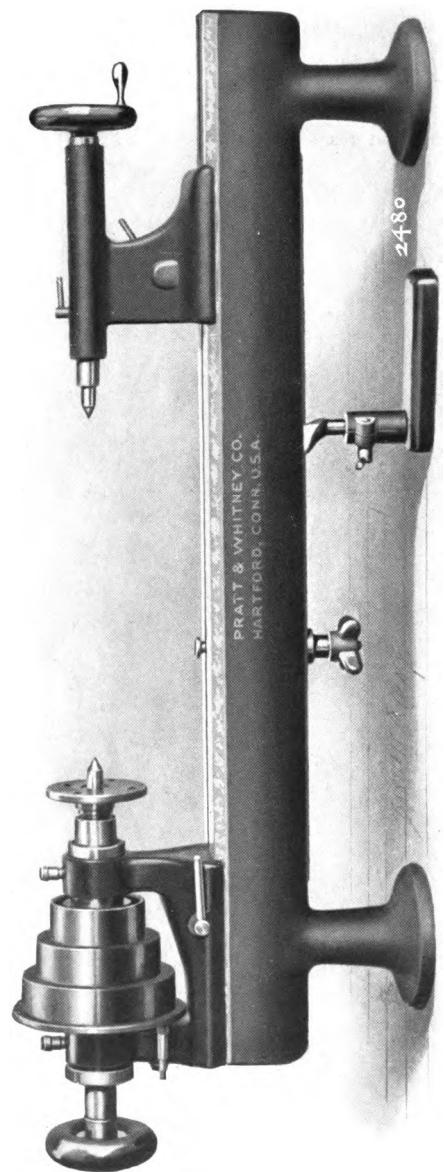


P R E C I S I O N T O O L S



7 x 32-inch Bench Lathe

P R A T T & W H I T N E Y C O M P A N Y

BENCH LATHE

The Bench Lathe properly equipped and understood undoubtedly presents the widest field for usefulness of any machine tool in use at the present time. For the toolmaker it is an indispensable tool; its convenience of operation, accuracy and universal features making possible an unlimited variety of work. Extreme care is exercised in the manufacture of the Lathes and the various attachments, all parts being made to master standards to insure their being interchangeable with one another.

SPECIFICATIONS

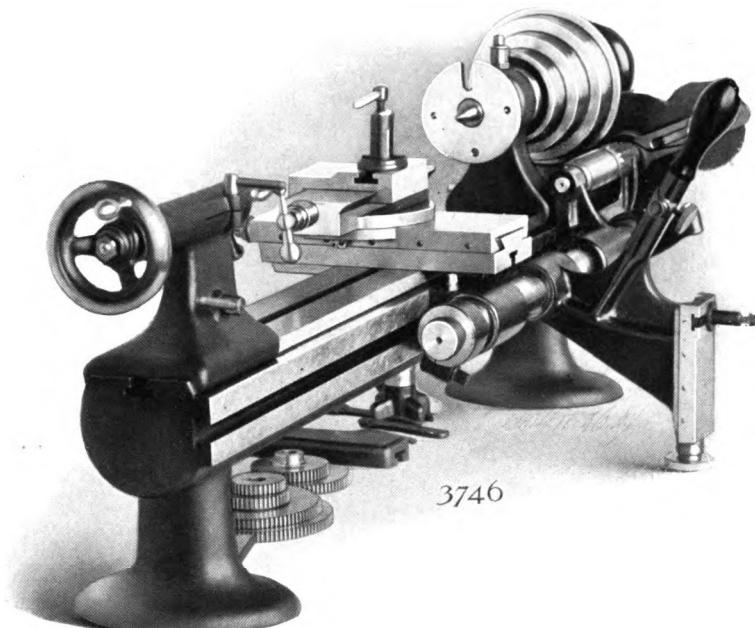
RANGE . . .	Length of Bed	32"
	Center Distance, maximum	16"
	Swing over Bed	7"
	Swing over Bed, with Raising Blocks	13"
	Back-rests, capacity	3", 4", 5", and 6"
	Tool Post takes Tool	1/2" x 1/4"
	Collet Capacity	1/2"
HEADSTOCK SPINDLE	Tool Steel (H. & G.); Front Bearing, double taper; Rear Bearing, cylindrical.	
	Boxes, Tool Steel (H. & G.), adjustable for wear.	
	Hole through Chuck Seat650"
	*Taper Hole in Spindle Collet, No. 4 Jarno.	
	Front End, conical.	
TAILSTOCK SPINDLE	Diameter750"
	Travel	3"
	*Taper Hole, No. 4 Jarno.	
SPEEDS . . .	Spindle Speeds (6), R. P. M.	144 to 1208
	†Cone (Spindle), diameter (3 steps)	3", 3 3/8", 4 3/4"
	Cone (Counter.), diameter (3 steps)	5 1/2", 6 3/8", 7 1/4"
	Countershaft Pulley (tight and loose) diameter	5"
	Countershaft V-Grinding Pulley, 10" diameter, R. P. M.	413 and 1667
	Belt Width (Cone)	1"
	Belt Width (Countershaft Pulleys)	1 1/4"
	Countershaft Speed, R. P. M.	125 and 500
BENCH SPACE	Bench Space	6" x 35"
WEIGHTS . . .	Machine Regular Equipment, net pounds	100
	Boxing Material, approximate pounds	50
	Box, cubic feet	5

*For detailed information, see "Tapers", page 247.

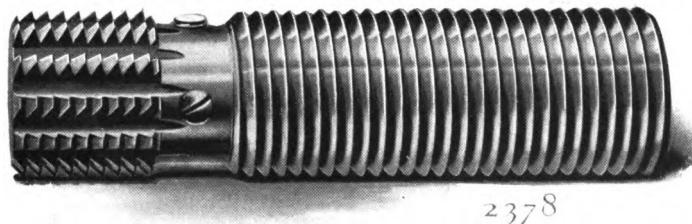
[†] Index Holes in Cone Flange, 48 and 60.

Code words, page 265.

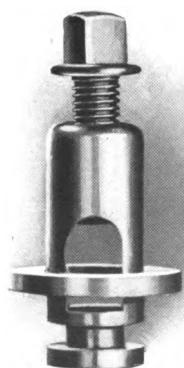
P R E C I S I O N T O O L S



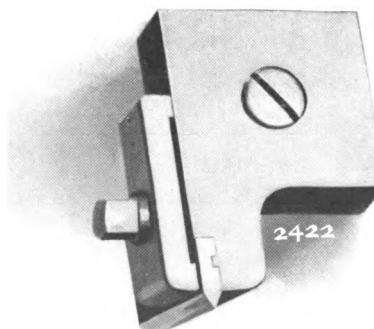
Rear View with Thread Cutting Attachment Thrown Back



Hob Screw



Regular Tool Post



Special Threading Tool

BENCH LATHE EQUIPMENT

Important Notice In ordering attachments state explicitly whether for old or new model, as some of the attachments will not interchange. All Bench Lathes with "Pratt & Whitney" cast on bed are new model.

Attachments applied to the bed work equally well on either old or new model, with exception of the Threading Attachment. Special brackets and spindle gear are furnished to order, which enables the old model Threading Attachment to be used on the new model lathe.

Attachments which fit the headstock or tailstock will not interchange, as there is a difference in the size of collets and in taper of centers. Special spindle to accommodate old style collets can be furnished to order.

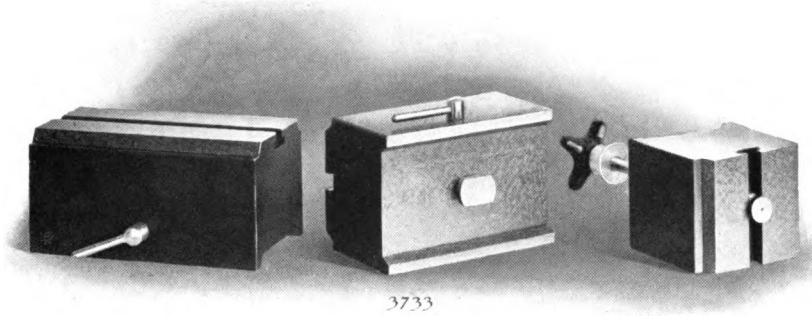
Regular Equipment Comprises: Bed with Rear Slide planed for Threading Attachment ; Headstock with Face Plate, Center Collet and Center ; Tailstock with Center ; T-Rest with Binder.

Threading Attachment Consists of: Chasing Bar and Brackets ; One Spindle Gear ; One Intermediate Gear ; 6-Change Gears (permitting any multiple of Hob Screw from 1 to 6 to be cut) ; One Hob Screw any standard pitch as specified below ; Hand Lever and Arm for carrying Threading Tool ; Plain Tool Post with either English or Metric Micrometer Adjustment and Stop-plate attached to bed.

Hob Screws with Hob for chasing nut, standard pitches: 10, 11, 12, 13, 14, 15, 16, 17, 18 and 20.

Special Threading Tool and Holder for Threading Attachment, furnished to order.

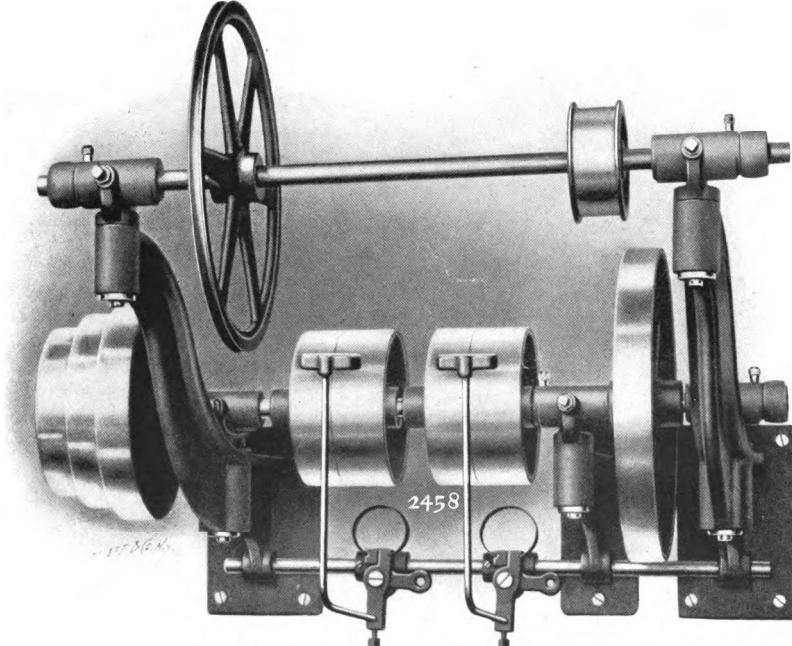
Brackets, Long and Short, also Spindle Gear to enable old model Threading Attachments to be used on new model lathes, furnished to order.



3733

Raising Blocks

Raising Blocks 3 inches high, increasing swing of lathe to 13 inches; 3 in set: one each for Head, Tailstock and one for Compound Rest or other attachments.

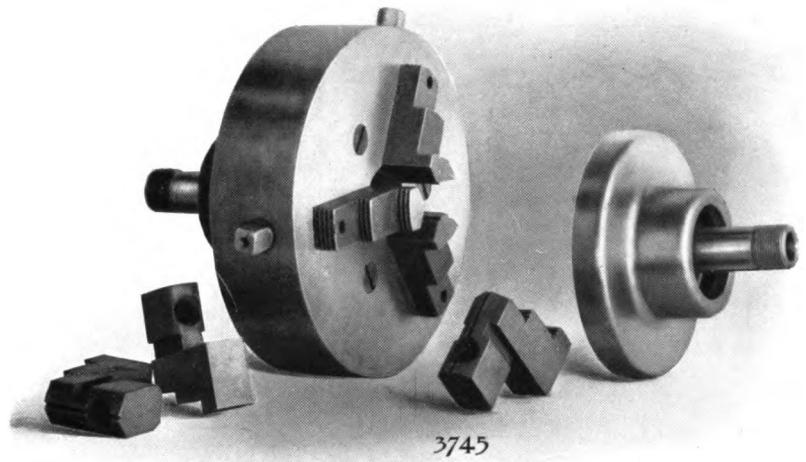


Two-speed Wall Countershaft with Grinding Attachment

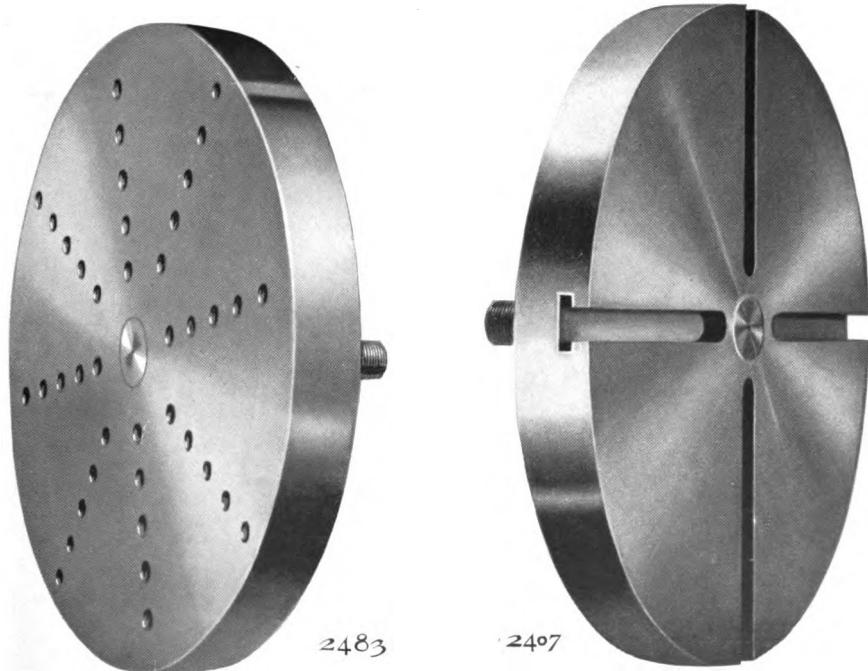
Countershafts Two-speed Wall with or without grinding attachment; Two-speed Wall-rod with or without grinding attachment.

Wall Countershafts bolt directly to the wall; Wall-rod Countershafts are bolted to Wall-rods, which is preferable when a number of lathes are used together or are placed in front of windows. Wall-rod Brackets and Wall-rods 1 inch diameter, are carried in stock and furnished to order.

P R A T T & W H I T N E Y C O M P A N Y

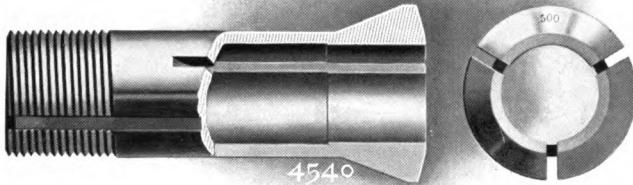


Combination Chucks: 4 and 6-inch with 2 sets of Jaws and Chuck-plate



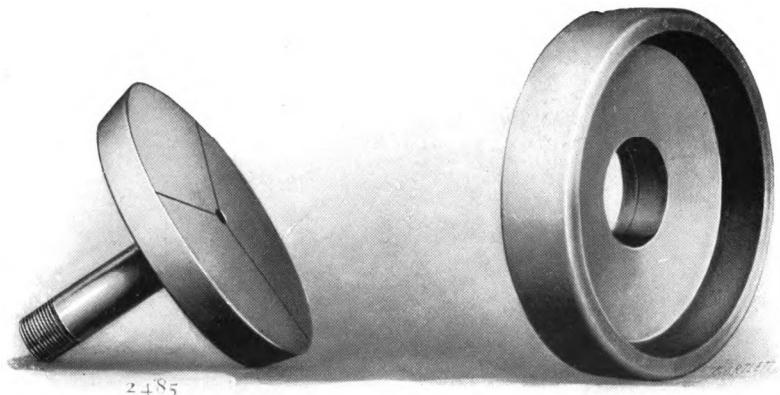
7-inch Face-plate Chuck with Tapped Holes

7-inch Face-plate Chuck with T-slots



Collet

Collets English sizes, $\frac{1}{64}$ " to $\frac{1}{2}$ " varying by 64th or .025" to .5" varying by .005. Metric sizes, .5 to 12 m/m varying by .5 m/m.



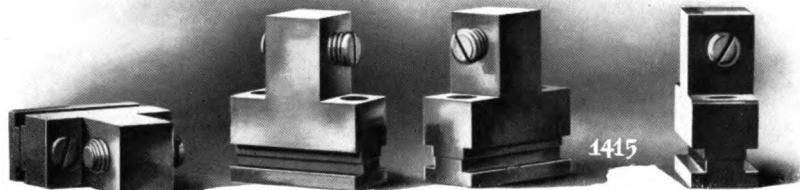
Blank Split Step-chuck and Closer

Step-chucks and Closers Made in five sizes.

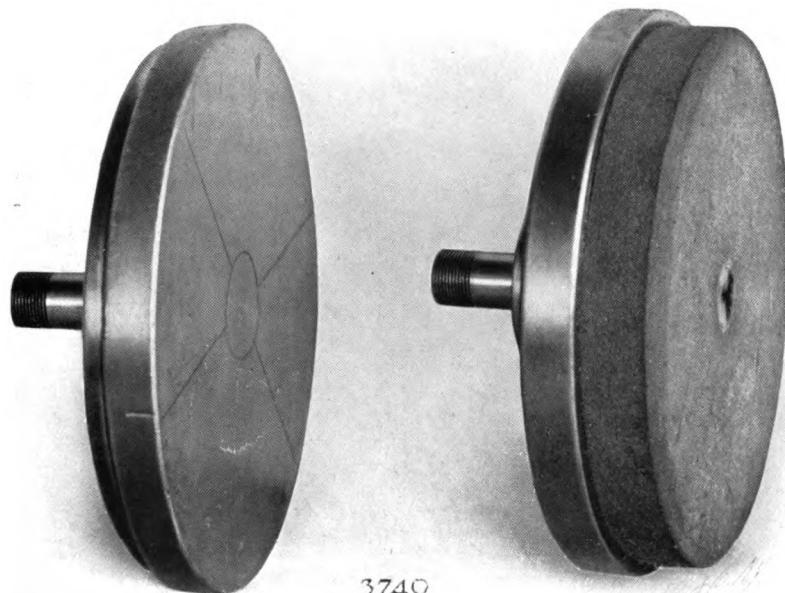
Chuck A (C. I.)	Maximum Recess	1.25"	Diameter x .125" Deep
Chuck B (C. I.)	Maximum Recess	1.75"	Diameter x .125" Deep
Chuck C (C. I.)	Maximum Recess	2.25"	Diameter x .125" Deep
Chuck D (C. I.)	Maximum Recess	2.75"	Diameter x .125" Deep
Chuck E (C. I.)	Maximum Recess	3.25"	Diameter x .125" Deep

Closers A, B, C, D, E for above Chucks.

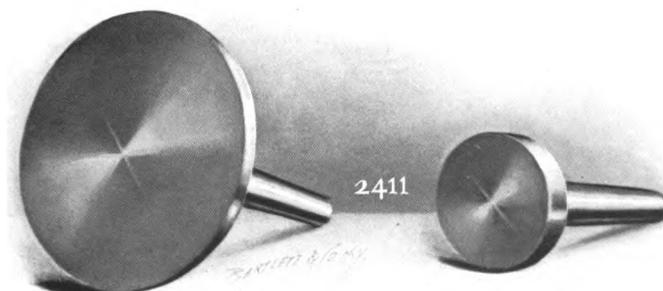
P R A T T & W H I T N E Y C O M P A N Y



Chuck Jaws: For Face-plate Chucks with T-slots. Also used for Face-plate Quills with T-slots

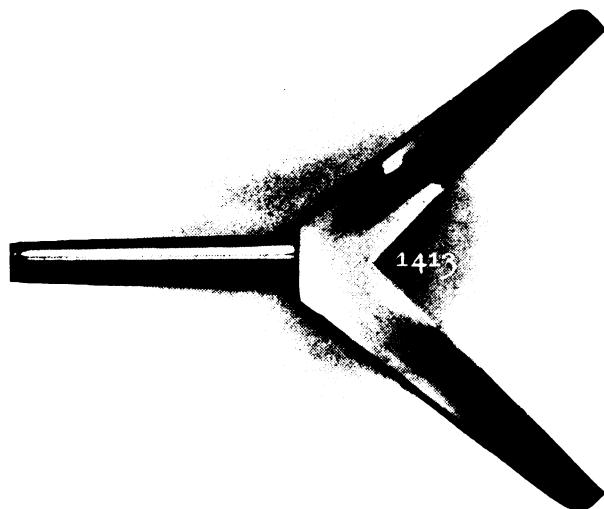


Face Emery Wheel and Face Lead Lap

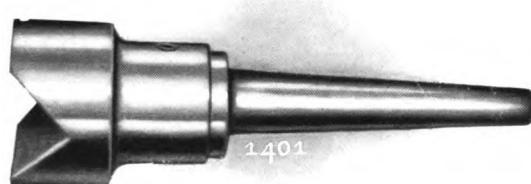


Drill Pads: 1, 2, 4 and 6-inch Diameter

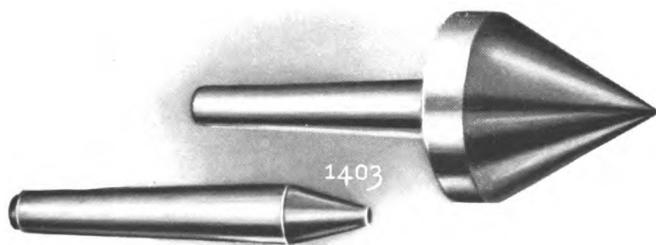
P R E C I S I O N T O O L S



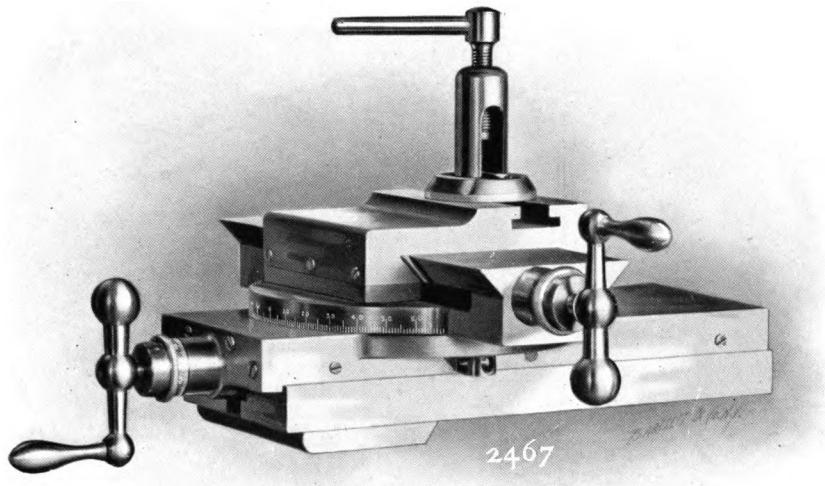
Plain V-center



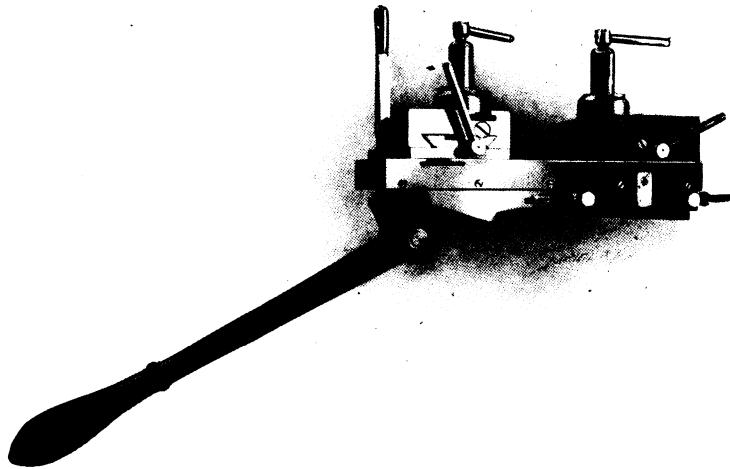
Swiveling V-center



Large Plain Center and Female Center

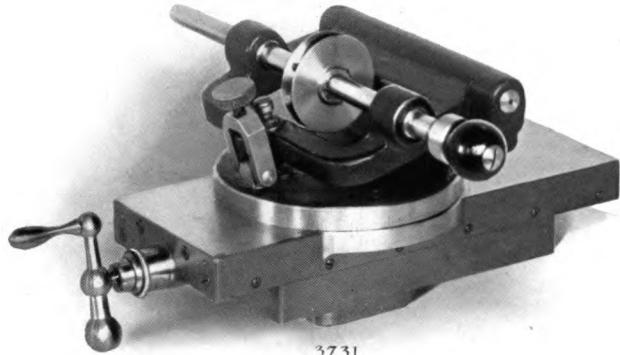


Compound Slide-rest: Graduated in Degrees for Angles and Provided with Micrometer Dials
either English or Metric



Double Slide-rest with Lever, Rack and Pinion Movement. Also made with Screw Movement

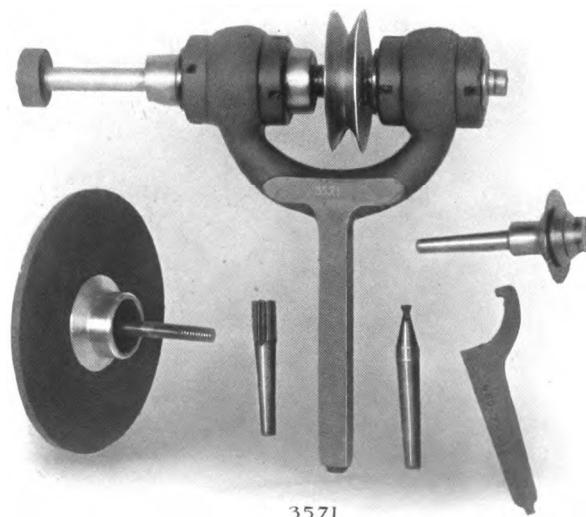
P R E C I S I O N T O O L S



Grinding Rest with Traversing Spindle: Graduated in Degrees for Angles and Provided with Micrometer Dials

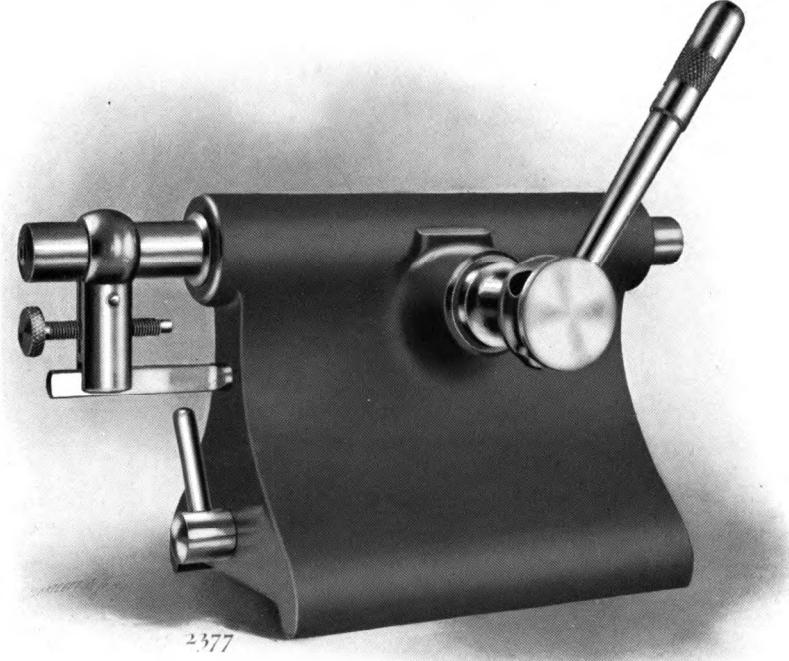


Slide-rest Traverse-spindle Grinder

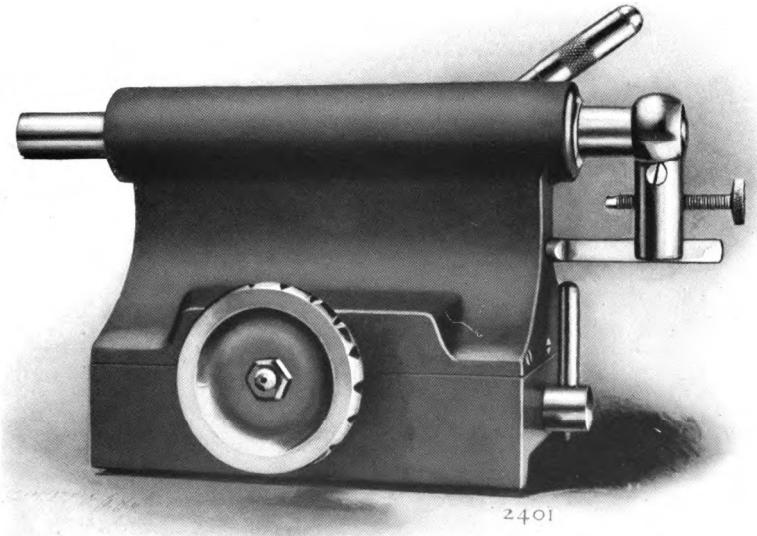


Tool-post Grinder and Appliances

P R A T T & W H I T N E Y C O M P A N Y

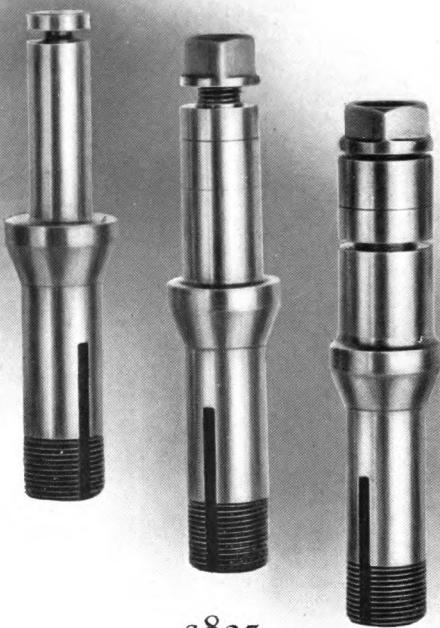


Plain Lever Tailstock

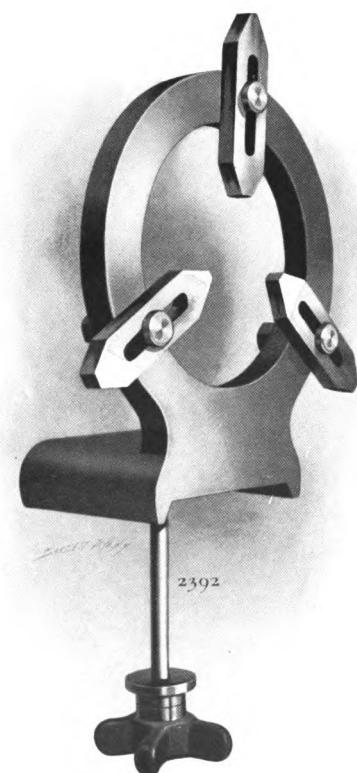


Lever Tailstock with Cross Slide

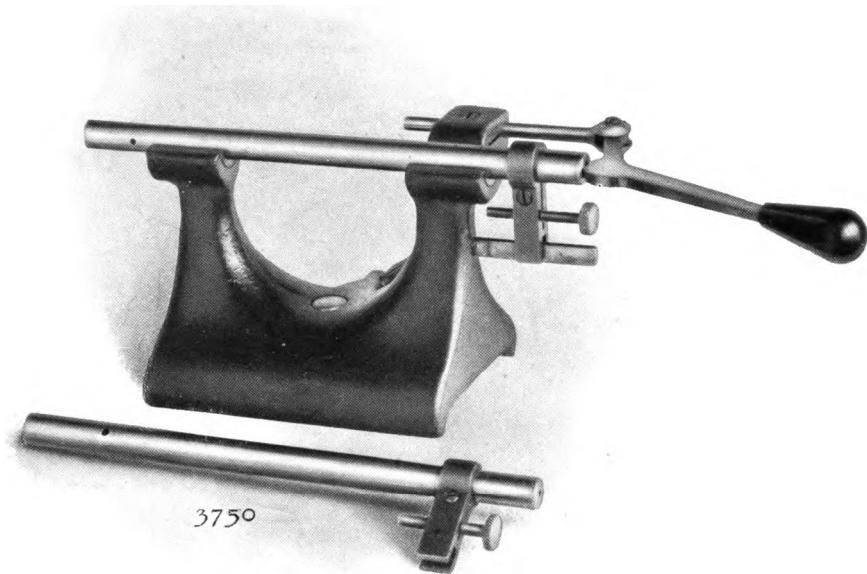
P R E C I S I O N T O O L S



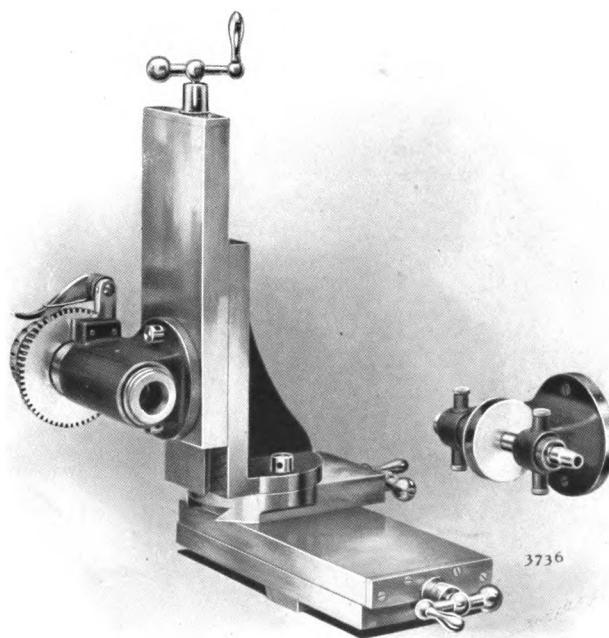
Arbors: $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch, for Milling Attachment



Back-rests: 3, 4, 5 and 6-inch Capacity

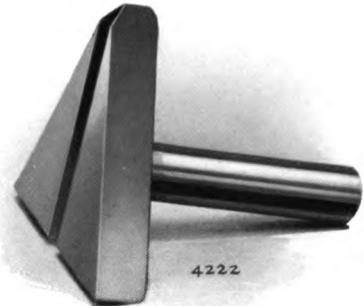


Open Tailstock with Extra Spindle and Dog. Also made with Full Bearings and Pulley on Spindle

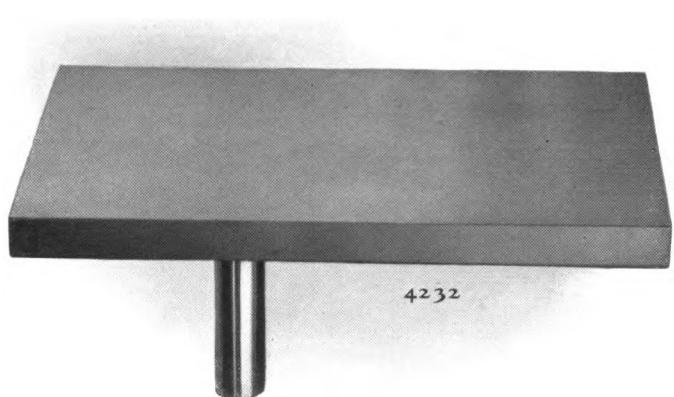


Milling Attachment with Extra Cutter Head

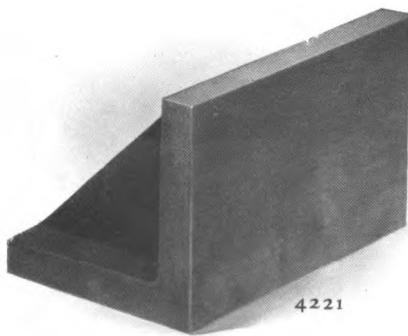
P R E C I S I O N T O O L S



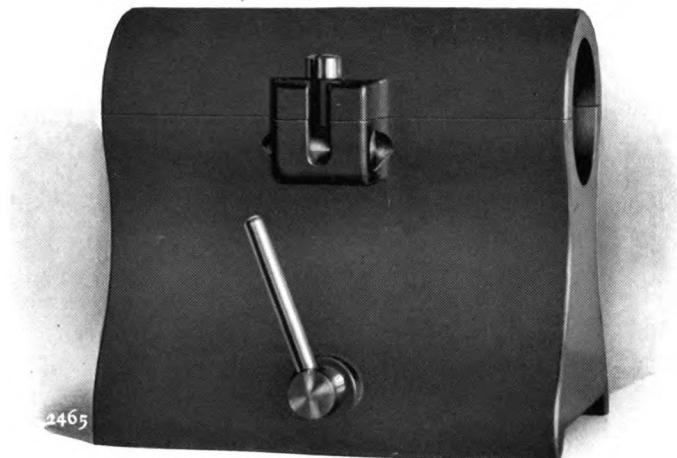
Triangular Table-rest, 2 $\frac{1}{8}$ -inch



Rectangular Table-rest, 4 x 6-inch



Angle Plate, 2 x 3 $\frac{1}{8}$ -inch



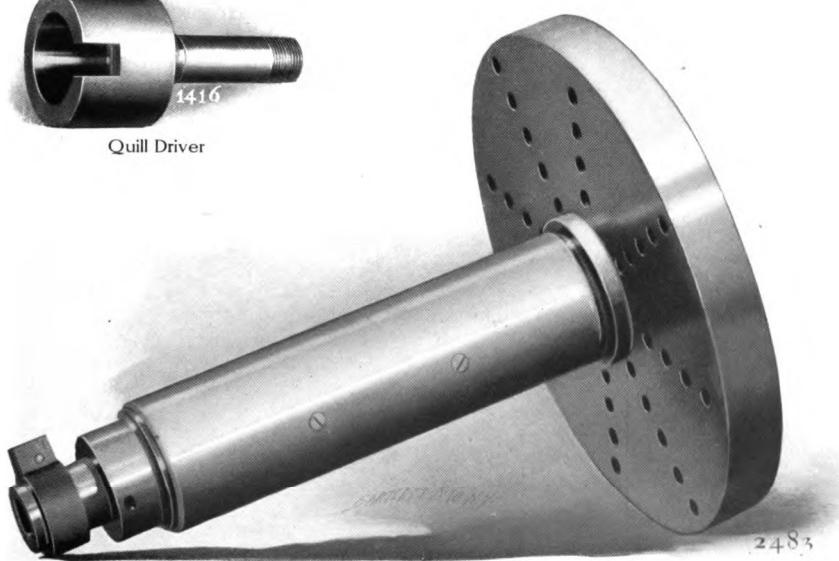
Quill-rest



Chuck Quill

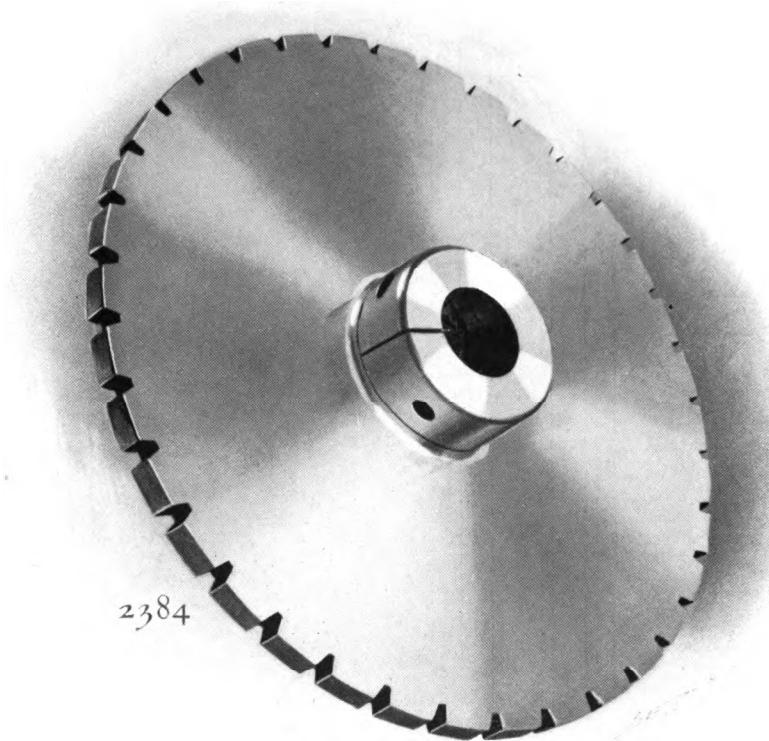


Quill Driver

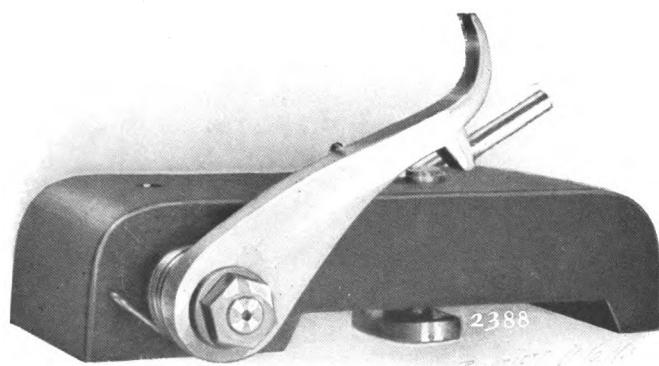


Face-plate Quill with Tapped Holes in Face-plate. Also made with T-slots in Face-plate

P R E C I S I O N T O O L S

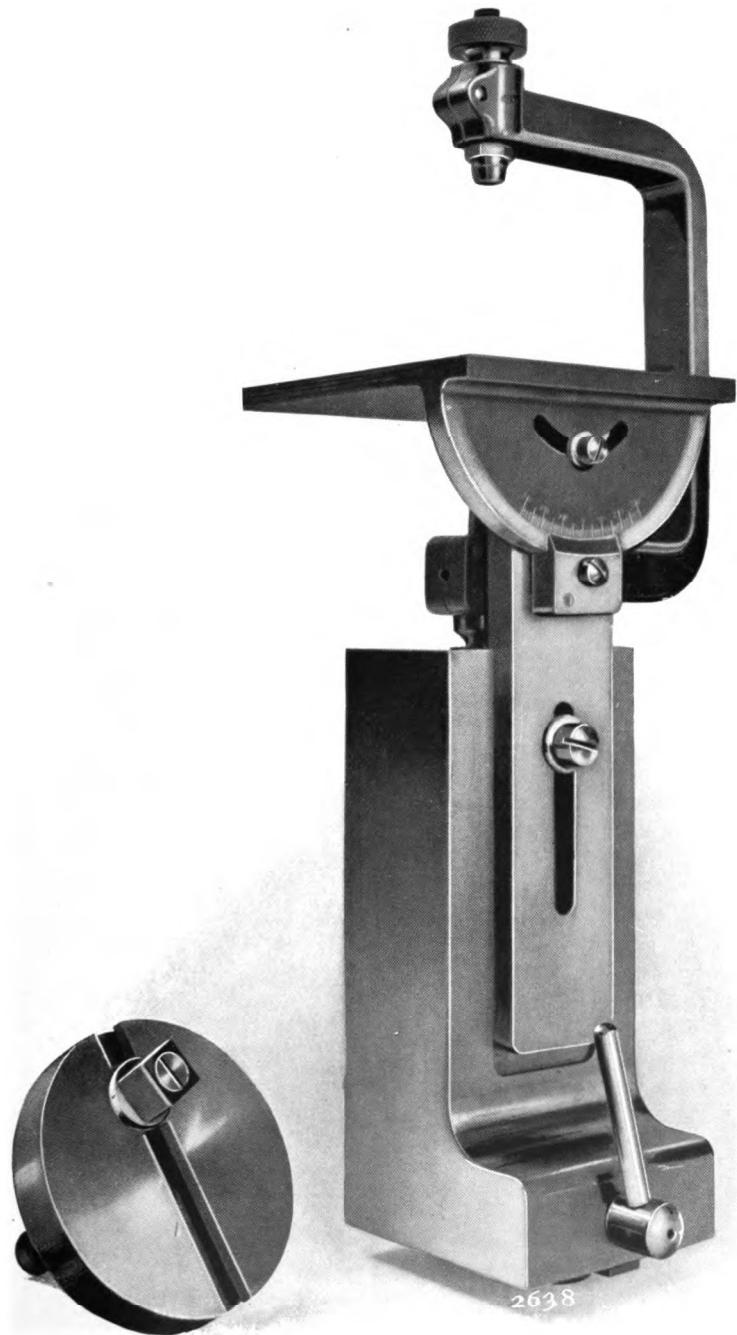


Index Plate: Number of Notches as Ordered



Index Pawl and Block

P R A T T & W H I T N E Y C O M P A N Y



Filing Attachment and Driver
Files of various shapes furnished to order