

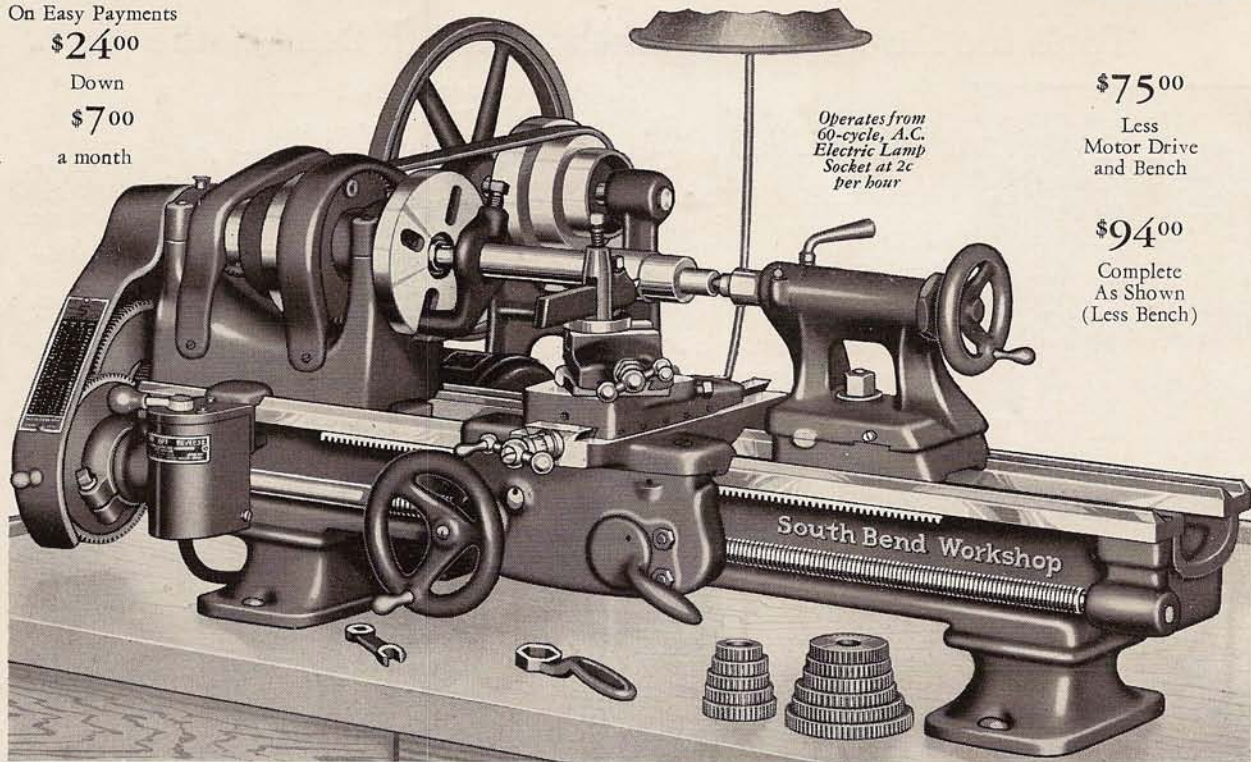
On Easy Payments

\$24.00

Down

\$7.00

a month



9" x 3' No. 405-Y, "Workshop" South Bend Bench Lathe with Horizontal Motor Drive.

9-inch "Workshop" South Bend Horizontal Motor Driven Bench Lathe

A Back-Geared, Screw Cutting Lathe—Automatic Longitudinal Power Feed to Carriage

The 9-inch No. 5 "Workshop" South Bend Lathe is the smallest and lowest priced lathe in our line and represents the latest development of this Company, which has specialized for 28 years in building lathes. This lathe is accurate, well constructed and guaranteed. No die-cast metal is used. Lathe is painted a sea gull grey.

The 9-inch "Workshop" Lathe is recommended for small machine shops, electrical shops, auto electric shops, manufacturing plants, repair shops, automotive repair shops, home work shops, laboratories, school machine shops, etc. and will handle all classes of machine operations on all kinds of metal, fibre, hard rubber, wood, bakelite, catalin, celluloid, etc.

The Horizontal Motor Drive with which this lathe is operated consists of a horizontal countershaft and $\frac{1}{4}$ H.P. start-and-stop reversing motor which is mounted on the

bench back of the lathe (may also be mounted on wall or ceiling). Drive is by V-belt from motor to countershaft pulley and by flat leather belt to headstock spindle cone. Motor drive equipment may be purchased complete with the lathe or any item may be omitted.

Regular Lathe Equipment included in price consists of: Graduated compound rest; face plate; forged steel tool post; two 60° lathe centers, No. 2 Morse Taper; spindle sleeve; wrenches; change gears for cutting standard screw threads from 4 to 40 per inch; large turning gears for automatic longitudinal power feeds as low as .003" per rev. of spindle; installation plan and book "How to Run a Lathe."

Attachments, Chucks, Tools and Accessories for the 9-inch "Workshop" Lathe are illustrated and priced in Bulletin No. 5-W. Copy mailed free, postpaid, on request.

Lathe Features

Back-geared headstock, six spindle speeds.
Hollow steel spindle, $\frac{3}{8}$ " hole.
Reverse gear for left-hand threads and feeds.
Graduated compound rest swivels to any angle.
Carriage lock for accurate facing and cutting-off.
Tailstock set-over for taper turning.
Micrometer graduations on feed screws.
Automatic longitudinal power feeds to carriage.
Precision lead screw for screw thread cutting.
Half-nuts for screw thread cutting.
Three V-ways and one flat-way on lathe bed.
Adjustable bearings for spindle.
Adjustable gibs on cross feed and compound rest.

Lathe Specifications

Swing over bed.....9 $\frac{1}{2}$ " in.
Swing over carriage.....6 $\frac{1}{2}$ " in.
Hole through spindle $\frac{3}{8}$ ". Collet capacity..... $\frac{1}{8}$ " to $\frac{1}{2}$ " in.
Standard screw thread cutting range.....4 to 40 per in.
Spindle speeds.....39, 70, 124, 202, 353, 630 R.P.M.
Width of cone pulley belt.....1 in.
Lathe tool shank $\frac{3}{8}$ " x $\frac{3}{4}$ ". Cutter Bits..... $\frac{1}{4}$ " x $\frac{1}{2}$ " in.
Size of spindle nose.....1 $\frac{1}{2}$ " in. diam., 10 threads
Head and tail spindle centers.....No. 2 Morse Taper
Lead screw, Acme thread..... $\frac{1}{4}$ " in. diam., 8 threads
Tool cross slide travel.....5 $\frac{1}{2}$ " in.
Angular travel compound rest top.....1 $\frac{1}{2}$ " in.
Tailstock spindle travel.....1 $\frac{1}{2}$ " in.

Net Factory Prices of 9-inch "Workshop" South Bend Bench Lathe

	9" x 3' No. 405-Y	9" x 3 $\frac{1}{2}$ ' Acets 405-Z	9" x 4' Acfog 405-A	9" x 4 $\frac{1}{2}$ ' Abpib 405-R
9-inch "Workshop" South Bend Bench Lathe with Graduated Compound Rest and Regular Equipment, but less Countershaft and Bench.....	\$75.00	\$87.00	\$99.00	\$116.00
Prices of Horizontal Motor Drive Equipment				
Horizontal Countershaft, Plain Type.....	5.00	5.00	5.00	5.00
$\frac{1}{4}$ H.P. Heavy Duty Start-and-Stop Reversing Split-Phase Motor, 1725 R.P.M. (1-phase, 60-cycle, A.C. 110-volt).....	7.75	7.75	7.75	7.75
V-Groove Pulley for Motor (2" diam., for $\frac{1}{16}$ " V-Belt).....	.50	.50	.50	.50
Drum Reversing Switch (Style R-12) and Bracket for Attaching Switch to Lathe.....	4.00	4.00	4.00	4.00
V-Belt, $\frac{1}{16}$ " Heavy Duty Motor to Drive Unit.....	.75	.75	.75	.75
Flat Leather Belt (good quality oak-tanned, medium weight single ply) with Round Lacing.....	1.00	1.00	1.00	1.00
Cash Price, Motor Drive Lathe and Equipment, Complete.....	\$94.00	\$106.00	\$118.00	\$135.00
EASY PAYMENT TERMS:				
Amount of Down Payment.....	\$24.00	\$28.00	\$29.00	\$31.00
12 Equal Monthly Payments.....	7.00	7.00	8.00	9.00
Distance Between Spindle Centers of Lathe.....	18 in.	24 in.	30 in.	36 in.
Shipping Weight, Lathe and Motor Drive Equipment.....	300 lbs.	325 lbs.	350 lbs.	400 lbs.

SCREW THREAD CUTTING CHART				
9-inch WORKSHOP LATHE				
THREADS TO CUT	SPINDLE GEAR	COMP. GEAR	LEAD	SCREW GEAR
4	24	2-1	24	24
5	24	2-1	30	30
6	24	2-1	36	36
7	24	2-1	42	42
8	24	2-1	48	48
9	24	2-1	54	54
10	24	2-1	60	60
11	24	2-1	66	66
12	24	2-1	72	72
13	24	2-1	78	78
14	24	2-1	84	84
15	24	2-1	90	90
16	24	2-1	96	96
17	24	2-1	102	102
18	24	2-1	108	108
19	24	2-1	114	114
20	24	2-1	120	120
22	24	1-2	33	33
24	24	1-2	36	36
26	24	1-2	39	39
28	24	1-2	42	42
30	24	1-2	45	45
32	24	1-2	48	48
36	24	1-2	54	54
40	24	1-2	60	60

Metal Chart Attached to 9-inch "Workshop" Lathe showing arrangement of change gears for cutting screw threads from 4 to 40 per inch.

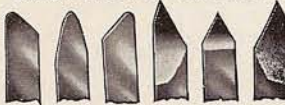


SOUTH BEND LATHE WORKS 425 E. Madison St., South Bend, Ind., U.S.A.

Tools for the 9-inch "Workshop" South Bend Lathe

Tool Holder and Cutter Bit Set \$2.35

Straight Tool Holder with Cutter Bit



Cutter Bits Ground to Form
A—L.H. Turning; B—Round Nose; C—R.H. Turning; D—L.H. Side; E—Threading; F—R.H. Side.

Tool Holder and Cutter Bit Set consists of: Drop Forged Tool holder (choice of straight, right-hand or left-hand), wrench, unground cutter bit and six high speed steel cutter bits ground to forms A, B, C, D, E, F.

Cat. No. 323-A. Code Word "Actit"
Price complete.....\$2.35



Turning Tool Holder

With wrench and one high speed steel unground cutter bit.

Right-Hand—No. 847-R, "Acurt".....\$1.25
Left-Hand —No. 847-L, "Acvet"..... 1.25
Straight —No. 847-S, "Acump"..... 1.25

High Speed Steel Cutter Bits



No. 1460. Unground Cutter Bit, Size $\frac{1}{4} \times \frac{1}{4} \times 2$. Code "Adwir," Each.....\$0.10

No. 1355. Cutter Bit, ground to forms A to F, shown at left. Size $\frac{1}{4} \times \frac{1}{4} \times 2$. Code "Adwap," Each.....\$0.20

No. 291. Set of Six Cutter Bits, ground to forms A to F shown at left. Code "Adwos," Each.....\$1.10

Cutting-Off Tool



With wrench and H.S. ground blade.
Right-Hand—No. 833-R, "Cemso".....\$1.50
Straight —No. 833-S, "Adeat"..... 1.50
Extra Cutter No. 819, "Adsop"..... .50

Threading Tool



With wrench and formed H. S. cutter.
No. 845, Code Word, "Adfob",.....\$2.50
Extra Cutter No. 814, "Adurp"..... 1.50

Knurling Tool



With one set of knurls, fine, medium or coarse: straight or diamond pattern.
No. 820, Code Word, "Domta".....\$3.00
No. 817, Knurls "Digmo" per pair.. 1.00



Boring Tool Holder Style "C"

With wrench, $\frac{1}{4}$ " ground boring bar, and one high speed steel cutter bit.

No. 486. Code Word "Ipcen".....\$3.00
No. 483. $\frac{1}{8}$ " Boring bar, "Advep"..... .30
No. 485. $\frac{3}{16}$ " Boring bar, "Adwut"..... .35



Boring Tool Holder Style "D"

With wrench and $\frac{1}{4}$ " boring bar, ground.

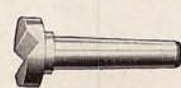
No. 505-F. Code Word "Adyot".....\$2.50
No. 498-B. $\frac{5}{16}$ " Boring bar, "Advor"..... .45



Center Gauge for Testing Lathe Centers and Setting Threading Tool
No. 650. Code Word "Xutjie".....\$0.50

Standard Lathe Dogs
Made of malleable iron. Designed for strength and service.

$\frac{3}{8}$ " cap. No. 1-WJ, "Adirm".....	\$0.30
$\frac{1}{2}$ " cap. No. 2-WJ, "Adjor".....	.40
$\frac{3}{4}$ " cap. No. 4-WJ, "Adkog".....	.50
$1\frac{1}{4}$ " cap. No. 6-WJ, "Adlef".....	.60
$1\frac{1}{2}$ " cap. No. 8-WJ, "Adlig".....	.70
$1\frac{3}{4}$ " cap. No. 10-WJ, "Adnag".....	.80



Crotch Centers

Used in tailstock spindle to center round work while being drilled.

No. 728-W, "Fanid".....\$2.00



Drill Pad

Used in tailstock spindle to support flat work while being drilled.

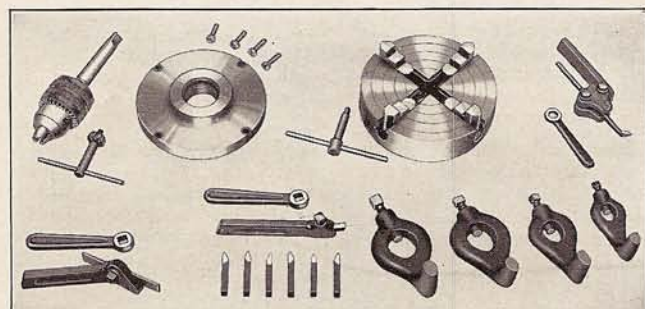
No. 727-W, "Donav".....\$2.00



Center Drill and Countersink

$\frac{1}{16}$ " dia. No. 898-A. Code Word "Xmqib".....	\$0.25
$\frac{3}{32}$ " dia. No. 898-B. Code Word "Xnrje".....	.30
$\frac{1}{8}$ " dia. No. 898-C. Code Word "Xoskd".....	.35

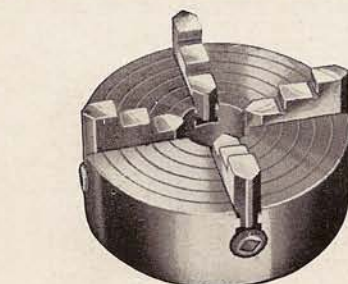
No. 105 Chuck and Tool Assortment for 9-inch "Workshop" Lathe



A Practical Chuck and Tool Assortment for General Machine Work

We recommend the chucks and tools listed below for use on the "Workshop" Lathe because this is the basic equipment required for handling the general machine jobs which come up every day, such as turning, boring, threading, cutting-off, chucking, etc.

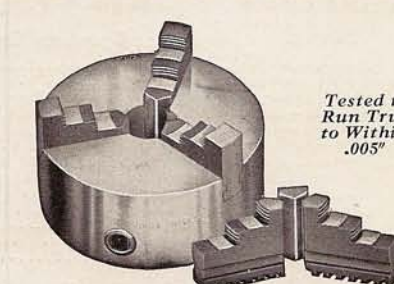
Cat No.	Description	Price
No. 4806	6" Model "O" 4-Jaw Independent Lathe Chuck.....	\$15.25
No. 258	Fitting Chuck to Lathe including chuck back.....	4.00
No. 220	$\frac{1}{2}$ " 3-Jaw Model "A" Drill Chuck.....	4.25
No. 709	Arbor Fitted to above Drill Chuck.....	.60
No. 847-S	Straight Shank Tool Holder with $\frac{1}{4}$ " Cutter Bit.....	1.25
No. 291	Six $\frac{1}{4}$ " High Speed Steel Ground Cutter Bits.....	1.10
No. 505-F	Boring Tool Holder, Style "D", with $\frac{1}{4}$ " Boring Bar.....	2.50
No. 833-R	Cutting Off Tool Holder, Right Hand, with ground cutter.....	1.50
	Four Malleable Lathe Dogs, $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1, $1\frac{1}{4}$ ".....	2.20
No. 105	Chuck and Tool Assortment. Code "Adpol".....	\$32.65



MODEL "O"

4-Jaw Independent Lathe Chuck

The Model "O" Chuck is a good, substantial, accurate chuck for machining metals of all kinds. Has four reversible independent jaws with individual screw adjustment for chucking round or irregular work in a concentric or eccentric position. Chuck body is semi-steel, ground; the face is graduated. Jaws are $\frac{3}{8}$ " wide, made of special steel, hardened and ground. Screws are hardened alloy steel, have 11 pitch square thread. Capacity $1\frac{1}{4}$ ". Ship. Wt. 6 $\frac{1}{2}$ lbs. No. 4806, 6" 4-Jaw Chuck, Model "O". Price includes wrench and screws, but not chuck-back or fitting; code "Rapno".....\$15.25*



MODEL "T"

3-Jaw Universal Lathe Chuck

The Model "T" Chuck is a good, substantial, accurate chuck for machining metals of all kinds. The chuck is self-centering and holds round or hexagonal work. Has two sets of jaws, one for outside chucking, the other for inside chucking. Chuck body is semi-steel, ground. Jaws are $\frac{3}{8}$ " wide, made of special alloy steel, hardened and ground. The scroll is of high grade steel; it is balanced and accurate. The bevel pinion is hardened alloy steel. Cap. 5", Ship. Wt. 6 $\frac{3}{4}$ lbs. No. 3805, 5" 3-Jaw Chuck, Model "T". Price includes wrench and screws, but not chuck-back or fitting; code "Rasep".....\$17.00*

Tested to Run True to Within .005"

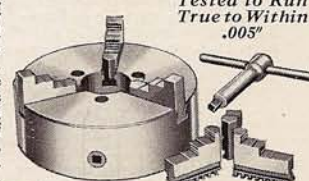
Low Priced Light Weight Chucks

Model "P" and Model "X" Lathe Chucks listed below are good quality, low priced light weight chucks, practical for an occasional chucking job. Where a quantity of accurate chucking work is to be done, we recommend the Model "O" and Model "T" Chucks shown at left.

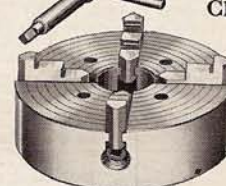
3-Jaw Universal Chuck Model "X"

A light weight, low priced chuck. Cap. 5". Ship. Wt. 6 $\frac{1}{2}$ lbs. Price includes wrench and two sets of jaws, 5 in. chuck. Cat. No. 3905. "Abhix" \$12.00*

Tested to Run True to Within .005"



4-Jaw Independent Chuck Model "P"



A light weight, low priced chuck. Cap. 7". Shipping Wt. 5 $\frac{5}{8}$ lbs. Price includes wrench.

6" Chuck. Cat. No. 4906. "Abhod".....\$8.00*

*Price extra for fitting above chucks to lathe including chuck-backs. Each.....\$4.00

(See Other Side)