Sears CRAFTSMAN

Quick Facts

ROUTER BITS AND ACCESSORIES





HANDBOOK OF ROUTER BITS' AND ROUTER ACCESSORIES

CONTENTS

One Piece Bits — High Speed Steel	. 4	1 -	7
Wing Type Bits High Speed Steel	. 7	7 -	9
One Piece Bits — Carbide Tipped	. 10) -	12
Wing Type Bits — Carbide Tipped	.12	2 -	14
Router Accessories	. 15	5 -	27
Router Bit Sets	. 28	3 -	30
Safety Information	. 31	1	

© Copyright 1982, 1979, 1976, 1973 Sears, Roebuck and Co.

Printed in U.S.A.

ROUTER BITS, TYPES AND USES

CRAFTSMAN ROUTER BITS ARE AVAILABLE MADE FROM HIGH SPEED STEEL AND FROM STEEL BODIES WITH CARBIDE TIPPED CUTTING EDGES.

HIGH SPEED STEEL BITS are PROFESSIONAL QUALITY bits which are hardened tempered, ground and Kromedge treated for rust resistance and good cutting life.

CARBIDE TIPPED BITS are also PROFESSIONAL QUALITY bits which have silver brazed cutting edges of TUNGSTEN CARBIDE, one of the hardest of the "man made" metals. Carbide tipped router bits last 15 times longer than high speed steel bits.

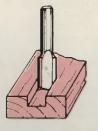
Ordinarily, high speed steel bits are quite satisfactory for routing solid woods. If one does a lot of routing, carbide tipped bits would be more economical in the long run. Plywood, chipboard, veneers, plastics and laminated woods are all very abrasive materials and will dull high speed steel rather rapidly. For this reason, it is preferable to use the carbide tipped bits on these materials.

ROUTER ACCESSORIES

The last portion of this booklet shows many of the accessories for routers which are available at Sears. They include the Router Table, Router Crafter, Drawer and Door Panel Decorator, Edge Crafter, Butt Hinge Mortising Template, Dovetail Joint Fixture, Edge Guides, Trammel Point, Routa-Form Pantograph, Lettering Template Set, Router Bit Sets and others. Look through these and see how amazingly versatile your router is — with the proper accessories.

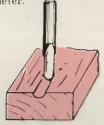
STRAIGHT BITS

Plain bits with straight cutting edge for general routing — Straight square edges, dadoing, and small rabbets. Available up to 3/4" diameter.



VEINING BITS

For cutting round bottomed grooves and small concave corner edges. Radii on the end of the bits are ½ the bit diameter. Available up to ¼" diameter.



VEE-GROOVING BIT

For making Vee shaped grooves and beveling edges. Available in ½" diameter to cut ¾" bevel and in 1¼" diameter to cut ¾" bevel.



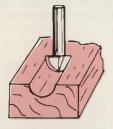
VEE CARVING BIT

Double end 45° Vee on one end, 60° Vee on other end.



CORE BOX BITS

For cutting half circles and concave quarter circles. Available in ½" diameter.



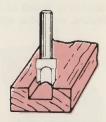
DOVETAILING BITS

For making interlocking joints such as for drawers and shelves. (FIXTURE FOR MAKING DRAWER JOINTS SHOWN ON PAGE 24). Available in 1/4" and 1/2" diameter.



BUTT HINGE MORTISING BIT

1/2" diameter for cutting mortises for hinges. (HINGE MORTISING TEMPLATES are shown as page 15).



1/4" COMBINATION PANEL BIT

For plunging through and cutting out holes such as a cut-out in wood to install a sink. Also used for trimming wood veneer. THIS BIT IS IDEAL FOR MAKING CUT-OUTS IN WALL PANELING FOR SWITCH BOXES—RECEPTACLES, ETC.



%2" POINT CUTTING OGEE BIT

Used for center cutting decorations where pilots cannot be used. Very versatile for use on router crafters, cuts beads, reeds, ornate blending from square to round on table legs, roping, and other spirals.



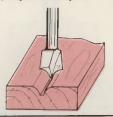
EDGE ROUNDING ROUTER BIT

Bit specially designed for slightly rounding table edges and the like up to %" thick. Also for use with 9 25188 Edge Crafter shown on page 20.



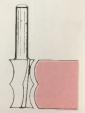
3/16" POINT CUTTING OUARTER ROUND BIT

Cuts approximate 3/6" corner round. For use on center and panel cuts where pilots cannot be used. For use on router crafters to cut small beads, reeds, ropes and spirals.



DOUBLE BEAD EDGING ROUTER BIT

Double Bead Edging Bit is designed to make two beads $\frac{1}{6}$ " wide at one time, or to make $\frac{1}{2}$ " bead at a time. Also for use with $\frac{9}{2}$ 25188 Edge Crafter shown on page 20.



OGEE TWO FLUTE ROUTER BIT 3/4" DIAMETER

Cuts 3/16" radii with 3/6" flat center diameter. Very popular for decorative cuts with 9 25188 Edge Crafter shown on page 20 and 9 25472 Door and Drawer Panel Decorator shown on page 18-19.



1/16" TAPERED CARVING ROUTER BIT

Special carving type bit for use with Craftsman Recreator. Cutting edge tapers from $\frac{1}{16}$ " to $\frac{1}{4}$ " over a length of $\frac{1}{4}$ ".



WING TYPE BITS—HIGH SPEED STEEL

THESE BITS ARE MADE WITH A THREADED CENTER HOLE AND MUST BE USED WITH 9 2589 ARBOR AND PILOT SET, OR 9 25601 BALL BEARING ARBOR SET SHOWN ON NEXT PAGE.



9 2589 3 Pq. ARBOR AND PILOT SET CONSISTS OF A 1/4" ARBOR, A 7/6" PILOT AND A 5/6" PILOT. YOU NEED ONLY ONE SET TO USE ALL OF THE WING TYPE HIGH SPEED STEEL BITS.

WING TYPE BITS—HIGH SPEED STEEL

9 25601 3 PC. BALL BEARING ARBOR SET

Consists of a $\frac{1}{4}$ " arbor, $\frac{7}{16}$ " Ball Bearing Pilot and a $\frac{5}{16}$ " solid type pilot. (This is same as $\frac{9}{2}$ 2589 except that the $\frac{7}{16}$ " pilot is a ball bearing.)



CORNER ROUND AND BEADING BITS

These bits make a corner round cut (Fig. A) when the large pilot is used. When the small pilot is used, the bits make a bead cut (Fig. B). Bits available to cut 1/4", 3/8" and 1/2" radius.





TYPICAL DROP LEAF TABLE CONSTRUCTION

TABLE TOP EDGE CUT WITH CORNER ROUND AND BEAD BIT—



DROP LEAF EDGE CUT WITH COVE BIT.

COVE BITS

Cut a ¼ concave round when used with the large pilot from the 2 2589 Arbor and Pilot Set. Available to cut 3/8" and 1/2" radius.



WING TYPE BITS—HIGH SPEED STEEL

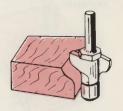
2Pc. RABBETTING BIT

The rabbetting bit is supplied with a very small pilot. Using this small pilot the bit will cut a %" rabbet. Using the small pilot from the \$2589 Arbor and Pilot Set will cut a \(\frac{1}{6}\) rabbet, and using the largest pilot the bit makes a \(\frac{1}{4}\) " rabbet. Use bit without pilot for surfacing.



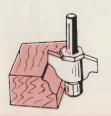
OGEE BIT

The 3/6" Ogee bit will make the Ogee cut shown when used with the large pilot from the 22589 Arbor and Pilot Set. Used mostly for edge decoration.



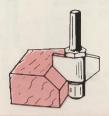
ROMAN OGEE BIT

The Roman Ogee Bits make the standard Ogee cut as shown when used with the large pilot from the $\frac{9}{2}$ 2589 Arbor and Pilot Set. Available in $\frac{5}{2}$ and $\frac{1}{4}$ " sizes.



CHAMFERING BIT

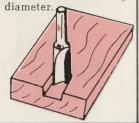
This bit will cut bevels up to 1/2" long Use large pilot or edge guide. Ideal for beveling curves and irregular edges where the edge guide cannot be used.



ONE PIECE BITS — CARBIDE TIPPED

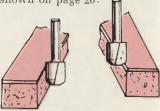
STRAIGHT TYPE SINGLE FLUTE BITS FOR STRAIGHT ROUTING

Carbide cutting edges last 15 times longer than high speed steel on abrasive materials such as plywood, chipboard, and masonite. Available up to 34" diameter.



COMBINATION STRAIGHT AND BEVEL TRIMMER BIT

Single flute carbide bit for edge trimming plastics and veneers. Lower edge cuts 22° bevel. Upper edge cuts straight edge. Use with edge guide or special roller guide shown on page 26.



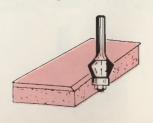
TRIMMER BITS WITH BALL BEARING PILOTS

Two flute carbide flush trimming bit has ball bearing pilot. Use for edge trimming veneers, Formica®, etc. Ball bearing provides perfect guide with no marring



TRIMMER BITS WITH BALL BEARING PILOTS

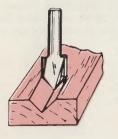
Two flute bevel trimmer bit with ball bearing pilot cuts a 22° bevel edge such as on counter tops.



ONE PIECE BITS — CARBIDE TIPPED

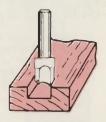
VEE-GROOVING BIT

For making Vee shaped grooves and beveling edges. Available in ½" diameter.



BUTT HINGE MORTISING BIT

1/2" diameter for cutting mortises for hinges. (HINGE MORTISING TEMPLATES are shown on page 15.



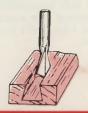
3/8" COMBINATION PANEL BIT

For plunging through and cutting out holes such as a cut-out in wood to install a sink. Also used for trimming wood veneer. THIS BIT IS IDEAL FOR MAKING CUT-OUTS IN WALL PANELING FOR SWITCH BOXES—RECEPTACLES, ETC.



DOVETAILING BITS

For making interlocking joints such as for drawers and shelves. (FIXTURE FOR MAKING DRAWER JOINTS SHOWN ON PAGE 24). Available in ½" joint size.



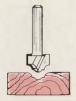
ONE PIECE BITS— CARBIDE TIPPED

OGEE TWO FLUTE CARBIDE TIPPED ROUTER BIT ½" DIAMETER

Use to raise panels and decorative cutting. For use with 9 25472 Drawer and Door Panel Decorator shown on page 18-19, and with 9 2525 Router Crafter shown on page 16-17.

"GLASSIC" TWO FLUTE GARBIDE TIPPED ROUTER BIT 1/2" DIAMETER

Design for panel raising and decorative edging. For use with 9 25472 Drawer and Door Panel Decorator shown on page 18-19, and 9 2525 Router Crafter shown on page 16-17.



WING TYPE BITS— CARBIDE TIPPED

FOR USE WITH BALL BEARING PILOTS

The bits shown and described are made for use with 9 25895 Arbor and Ball Bearing Pilot Set. This combination provides guiding features that enable the amateur to make perfect cuts on straight edges and inside and outside curves and irregular shapes.

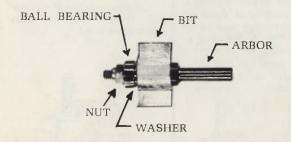
WING TYPE BITS — CARBIDE TIPPED



BALL BEARING ARBOR AND PILOT SET

Consists of a hardened and ground ¼" arbor, washer, ½" Ball Bearing, 5%" Ball Bearing, bushing and nut. Assembly of a cutter bit on the arbor is shown below.

Only one bearing is used at a time — either the $\frac{1}{2}$ " diameter or the $\frac{5}{8}$ " diameter. The small bushing must always be used in the $\frac{5}{8}$ " bearing.

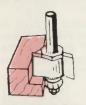


WING TYPE BITS — CARBIDE TIPPED

FOR USE WITH BALL BEARING ARBOR SET

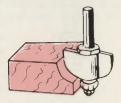
RABBETTING BIT

Makes %" and %6" rabbetts. %8" rabbett is made using the %2" diameter ball bearing on the 925895 arbor. %16" rabbett is made by using the %8" diameter bearing.



COVE BITS

Cove cuts (female or concave radius) are made using the 1/2" diameter bearing on the 9 25895 arbor. Available to cut 3/8" and 1/2" radius.



CORNER ROUNDING AND BEADING BITS

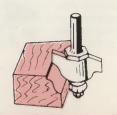
Makes two types of cuts. Corner Rounding is done by using 5/8" diameter bearing as shown in Fig. A. Beading is done by using 1/2" diameter bearing as shown in Fig. B. Bits available to cut 1/4", 3/8" and 1/2" radius.





ROMAN OGEE BIT

Use with 9.25895 arbor and 5/8" bearing. Popular 1/4" and 5/32" radius size for most decorative cuts.



A FULL LINE OF ACCESSORIES FOR YOUR ROUTER ARE AVAILABLE AT YOUR LOCAL SEARS STORE OR CATALOG ORDER HOUSE. GET THE MOST FROM YOUR ROUTER. USE THESE ACCESSORIES FOR PROFESSIONAL RESULTS.

§ 25187 3-Section Butt Hinge Template

For square or round-cornered hinges to 5" long. Mortises 2 or 3 hinge doors to 7 feet high, 3/4" to 23/4" thick.

Use with guide bushings No. 225069 and router bit No.

9 2555 or 9 25551.



Sears

CRAFTSMAN®

Router Crafter

9 2525

Contour turning straight fluting and beading right and left hand spiraling and roping

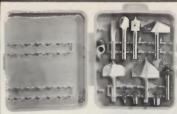
9 25256 DRIVE ADAPTER

for Router-Crafter Allows cuts over full length of work piece

(not included with Router-Crafter)

easily

made



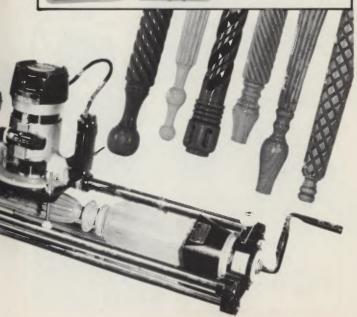
Special ROUTER CRAFTER

ROUTER BIT SET

9 21227

CONTAINS 2568, 25567, 25579, 25583, 25594, 25596, 2589 AND 25581

(Not included with 9 2525)





Drawer Panel

Decorates Panels Up To 34" X 34"



(Router Not Included)

and Door Decorator

9 25472

Radius Arm Attachment swings radii from 5 to 17½ in.





carbide tipped
Special PANEL DECORATOR
RDUTER BIT SET
9 22115
CDNTAINS
25578 ½" V-GRODVE CHAMFERING
25584 ½" OGEE, 25595 ½" CLASSIC
(Not included with 9 25472)



EDGE CRAFTER 9 25188

LETS YOU ROUT ROUND AND WAVY EDGES AND MAKE PIECRUST, OVAL TABLE TOPS, MIRROW FRAMES WITH DECORATIVE EDGES UP TO 30 INCHES IN DIAMETER



includes these templates



Wavy Round Template #1



Smooth Oval Template #2



Wavy Oval Template #3



Round with 8 lobes Template #4



Special EDGE CRAFTER
ROUTER BIT SET
<u>9</u> 21214
CONTAINS 25586, 25594,
25596, 25597 AND 25598
(Not included with 9 25188)

SCALLOPED ROUND TABLE TOP WAS MADE USING HOMEMADE TEMPLATE OUT OF 3/8" PLYWOOD







FOR USE WITH ROUTERS 9 1736, 9 1737, 9 1738, 9 1740, 9 1747, 9 1748, 9 2506 AND 9 2507

- HEAVY DUTY
- DIE CAST ALUMINUM TOP
- SAWDUST PICK UP SYSTEM Hooks up to home or shop vac (not included)
- UNITIZED FENCE Lets you change work positions together or independently
- BUILT IN ROLLER PILOT Lets you guide work piece smoothly for making intricate cuts
- DIE CAST FENCES—WOOD FENCE FACINGS INCLUDED
- HINGED TRANSPARENT GUARD
- MITER GAUGE



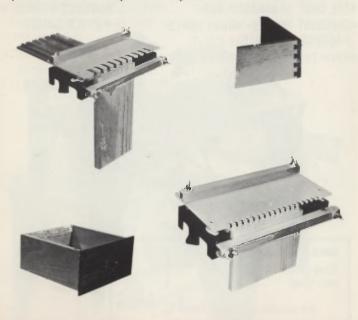
ROUTER TABLE 9 25444

FOR USE WITH ROUTERS 9 1736, 9 1737, 9 1738, 9 1740, 9 1747, 9 1748, 9 2506 AND 9 2507



2 2570 Dovetail Fixture

Unique design enables you to cut all four types of dovetail drawer joints — ½" flush, ½" flush-offset, ½" rabbetted and ¼" flush joints. Cuts joints for drawers up to 8" deep. Fixture comes complete with guide bushings for ½" and ½" joints and complete instructions for cutting all four types of dovetails. For good craftsmanship, drawers must have dovetailed joints which are simple and easy to make with this fixture.



9 1458 Router Case

Made from Permanex® polyethylene provides excellent protection for router when not in use as well as carrying from job to job. Has room for bits and some accessories.



9 25176 Light Attachment

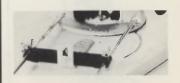
Fits router 21736 and 21738. Independent battery system uses two "C" cell batteries. Light can be left on when router is not running if desired.





9 25174 Trammel Point

Cuts circles 2" to 26" diameter. Fits routers 2 1736, 2 1737, 2 1738, 2 2506 2 2507 and 2 17381



9 25187 Rout-A-Form Pantograph

Lets router quickly convert pictures, line drawings, shapes and designs into fascinating wood engravings one half the size of the original. Simply trace lines of the original with handy stylus.



9 25732 Laminated Plastic Trimmer Attachment

Comes with carbide tipped router bit. Unit will flush trim and bevel trim at 22° angle and has a micrometer type adjustment for smooth, accurate trimming.

9 2573 Lettering and Numbering Template Set

Use to mortise 2½" high letters and numbers in all types of wood and hardboard. Set includes 40 templates—all letters of the alphabet, nine numbers, five punctuation marks and a clamp. Use with guide bushings § 25069.



9 6650 Sharpening Kits for 1/4" Shank Steel Router Bits

Unit mounts on the router to sharpen steel router bits. 1/4" shank mounted grinding wheel included.



2 25172 Adjustable Edge Guide

For straight cutting with routers 9 1736, 9 1737, 9 1738, 9 1740, 9 1747, 9 1748, 9 2506 and 9 2507.



⁹ 25179 Multi-purpose Router Guide

Multi-purpose Router Guide performs the functions of a laminate trimmer, edge guide and trammel point. For use with Routers 9 1736, 9 1737, 9 1738, 9 1740, 9 1747, 9 1748, 9 2506 and 9 2507.



ROUTER BIT SET



SPECIAL RECREATOR ROUTER BIT SET 9 21216 CONTAINS:

- $\frac{9}{2}$ 2552
- 9 25521
- 9 25529
- 9 25545
- 9 2569





SET NO. 9 21213 CONTAINS:

9 2552 9 25522 9 2557 9 25592 9 25572 9 25562 9 2589

For Safety Information See Page 31

ROUTER BIT SET

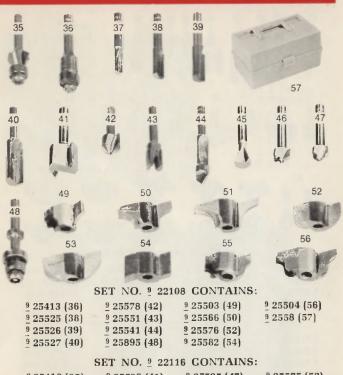


9 2552 (2)	9 25592 (8)	9 2589 (23)	⁹ 25581 (29)
9 25521 (3)	9 25594 (10)	9 25563 (24)	⁹ 25587 (31)
9 25522 (4)	9 25545 (11)	9 25562 (25)	9 2558 (34)
9 25523 (5)	9 2557 (16)	<u>9</u> 25572 (27)	

SET NO. 9 21221 CONTAINS:

9 25528 (1)	9 25594 (10)	⁹ 2554 (19)	9 25571 (28)
9 2552 (2)	9 25545 (11)	⁹ 2555 (20)	9 25581 (29)
9 25521 (3)	9 25567 (12)	9 2541 (21)	⁹ 25585 (30)
9 25522 [4]	9 25583 (13)	9 25579 (22)	⁹ 25587 (31)
9 25523 (5)	9 25596 (14)	⁹ 2589-(2) (23)	9 25588 (32)
9 25529 (6)	<u>9</u> 2568 (15)	9 25563 (24)	⁹ 25589 (33)
9 2559 (7)	9 2557 (16)	⁹ 25562 (25)	9 2558 (34)
9 25592 (8)	9 2553 (17)	9 25561 (26)	
9 25593 (9)	9 25531 (18)	9 25572 (27)	

CARBIDE TIPPED SET



	SET NO. 9 221	16 CONTAINS:	
9 25412 (35)	9 25506 (41)	9 25595 (47)	9 25575 (53)
9 25413 (36)	9 25578 (42)	9 25895 (48)	9 25582 (54)
9 25524 (37)	9 25551 (43)	9 25503 (49)	9 25507 (55)
9 25525 (38)	9 25541 (44)	9 25566 (50)	⁹ 25504 (56)
9 25526 (39)	9 25505 (45)	⁹ 25565 (51)	9 2558 (57)
9 25527 (40)	9 25584 (46)	9 25576 (52)	

IMPORTANT — SAFETY ADVICE

- DO NOT Allow sawdust to clog the motor air vents or the tool.
- DO Keep a firm hold on the tool when cutting . . . and also be certain that the workpiece is securely held by a vice, clamp or fixture.
- DO NOT Handle the running tool carelessly, allow your fingers or hands to get too close to the revolving cutter, or use an improperly secured workpiece set-up.
- DO Tighten all adjustments securely before starting an operation.
- DO Disconnect the electric cord when installing or removing cutters.
- DO NOT Make any adjustments while the tool is running.
- DO Be certain that the tool is properly grounded when in use if tool is supplied with a ground wire.
- DO NOT Use the tool under circumstances in which water or excessive dampness could cause a ground through you.
- DO Keep your tool, motor and cutters clean.
- DO NOT Wear loose clothing such as ties, long sleeves or gloves. These may become entangled in the tool and result in an injury.
- DO
 Protect your eyes—the operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety goggles before commencing power tool operation. Safety goggles are available at Sears retail or catalog stores.
- DO Read and understand instructions before attempting to use a router and/or any router accessory.



Sold by SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A.