



Routers

Tools and Accessories

Section Guide

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Accessories

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Advanced Modular Router System



Total Control at Your Finger Tips



The MR23EVS Router Series provides the total control at your fingertips! Bosch introduces the first fixed base router and router combo kit on the market with the trigger controlled power switches in the base handles. The Microfine Depth controls save time with fast and accurate depth adjustments. LED lights provide always-on, optimal lighting to help ensure precision on every job.



Exclusive Trigger Control System
on Both Fixed and Plunge Bases



Exclusive Afterlock
Microfine Depth Adjustment



Always-on Dual LED Lighting

Award Winning

Innovative Bosch routers have won numerous awards in the past.
The new MRC23EVS kit is no exception!

MRC23EVS Wood Magazine Hot Best New Products of 2010

PR20EVSK *Fine Homebuilding* Authors Best Overall Choice

1617EVSPK *Wood Magazine* Top Tool Approved (Multibase router Kits)

Popular Mechanics 5 Stars

Fine Woodworking Best Overall Readers Choice

American Woodworkers Editor's Choice



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See pages 117-140 for
router accessories.

Routers

Modular Fixed/Plunge Base Routers

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MRF23EVS – 2.3 HP Fixed-Base Router



- Trigger Control System - Trigger power switch (with lock-on button) conveniently located in handle for enhanced control
 - Versatile Depth Adjustment System - For easy and precise bit depth adjustment. Features 1-5/8" (41 mm) continuous microfine adjustment range & hex wrench for microfine adjustment through top of optional router table
 - LED Lighting - For enhanced visibility in bit area
 - Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs and other guidance devices
 - Two-Stage Quick Clamp System - Allows motor to be easily adjusted or moved from base to base
 - Variable-Speed Dial
 - Soft Start - Reduces start-up torque
 - Constant-Response™ Circuitry - Maintains constant speed under load
- Includes:** Motor, Fixed Base, 1/4" & 1/2" Self-Releasing Collets, 16mm and 24mm Bit Wrenches, T-Handle Hex Wrench, (3) M4 Screws for Table Mounting

MRP23EVS – 2.3 HP Plunge-Base Router



- Trigger Control System - Trigger power switch (with lock-on button) conveniently located in handle for enhanced control
 - Afterlock Microfine Depth Adjustment - Easy & precise adjustment at any plunge setting
 - Smooth Plunge Action, Spring-Lock Plunge Lever, and Depth Rod - For easy and precise plunge routing
 - Adjustable Turret Depth Stop
 - LED Lighting - For enhanced visibility in bit area
 - Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs and other guidance devices
 - Two-Stage Quick Clamp System - Allows motor to be easily adjusted or moved from base to base
 - Variable-Speed Dial
 - Soft Start - Reduces start-up torque
 - Constant-Response™ Circuitry - Maintains constant speed under load
- Includes:** Motor, Plunge Base, 1/4" & 1/2" Self-Releasing Collets, 16mm and 24mm Bit Wrenches

MRC23EVSK – 2.3 HP Modular Router System



- Trigger Control System - Trigger power switch (with lock-on button) conveniently located in handle for enhanced control
 - Afterlock Microfine Depth Adjustment - Easy & precise adjustment at any plunge setting
 - Smooth Plunge Action, Spring-Lock Plunge Lever, and Depth Rod - For easy and precise plunge routing
 - Versatile Fixed-Base Depth Adjustment - Features 1-5/8" (41 mm) continuous microfine adjustment range & hex wrench for microfine adjustment through top of optional router table
 - LED Lighting - For enhanced visibility in bit area
 - Precision Centering Design
 - Two-Stage Quick Clamp System
 - Variable-Speed Dial, Soft Start, Constant-Response™ Circuitry
 - Easy-to-Pack Case
- Includes:** Motor, Fixed and Plunge Bases, 1/4" & 1/2" Self-Releasing Collets, 16mm and 24mm Bit Wrenches, T-Handle Hex Wrench, (3) M4 Screws for Table Mounting, Case

Specifications

Model#	Rating	Amperage	Max. Tool HP	No Load RPM	Fixed Base Continuous Depth Range	Fixed Base Macro Depth Steps (3)	Plunge Depth (in.)	Plunge Base Afterlock Adjustment Range	Subbase/Base Openings	Height (in.)	Weight (lbs.)
MRF23EVS	120V AC	15	2.3	10,000-25,000	1-5/8"	1/2"	N/A	N/A	2"/3.75"	9.5	9.3
MRP23EVS	120V AC	15	2.3	10,000-25,000	N/A	N/A	3"	5/8"	2"/3.32"	12	12.6
MRC23EVSK	120V AC	15	2.3	10,000-25,000	1-5/8"	1/2"	3"	5/8"	2"/3.32" (fixed)/3.32" (plunge)	9.5 (12)	9.3 (fixed)/12.6 (plunge)

The Colt Palm Routers are the first small routers to offer power, precision, versatility and comfort. They are perfect for many routing tasks, including rounding off deck planks and railings, creating decorative edges, cutting slots and grooves, trimming laminates and cabinet face frames, making window cut-outs, routing decorative inlays and dovetails, and more.



Round Off Deck Planks & Rails



Route Hinge Mortises



Trim Hard-to-Reach Corners
Using Tilt Base



Scribe Backsplashes Using
Offset Base

PR10E – Colt™ Single-Speed Electronic Palm Router



- Rugged Aluminum Fixed Base - Durable, solid and precise
- Fast & Precise Depth Adjustment System - Allows both macro and micro adjustment
- Versatile Bit-Changing System: Fast, easy bit changes using two wrenches or spindle lock and one wrench
- Softstart - Reduces start-up torque
- Constant Response™ Circuitry - Monitors and maintains speed under load for consistent performance and provides overload protection
- Quick-Clamp System - Allows motor to be easily adjusted or moved from base to base

Includes: Motor, Fixed Base, 1/4" Self-Releasing Collet, 10mm Shaft Wrench, 17mm Collet Wrench

PR20EVSK(EVSNK) – Colt™ Variable-Speed Electronic Palm Router Kit (Installer's Kit)



PR20EVSNK



- Variable Speed Dial
- Straight Edge Guide – Guides router along edges of workpiece or up to 3-5/8" from edge
- Rugged Aluminum Fixed Base - Durable, solid and precise
- Fast & Precise Depth Adjustment System - Allows both macro and micro adjustment
- Versatile Bit-Changing System: Fast, easy bit changes using two wrenches or spindle lock and one wrench
- Softstart - Reduces start-up torque
- Constant Response™ Circuitry - Monitors and maintains speed under load for consistent performance and provides overload protection
- Quick-Clamp System - Allows motor to be easily adjusted or moved from base to base

Includes: Motor, Fixed Base, 1/4" Self-Releasing Collet, 10mm Shaft Wrench, 17mm Collet Wrench, Straight Edge Guide, Carrying Case

PR20EVSNK also features

- Tilt Base with Detents at Key Angles - Allows routing at special angles and in hard-to-reach areas
- Offset Base with Spindle Lock - Allows routing near vertical surfaces, such as when trimming laminate applied to top of countertop backsplash
- Underscribe Attachment - Mounts to fixed base for creating precise seams between sheets of laminates
- Roller Guide - Guides router when non-bearing bit or unpiloted bit is used

Includes: Motor, Fixed Base, (2) 1/4" Self-Releasing Collets, Shaft and Collet Wrenches, Straight Edge Guide, Roller Guide, Offset Base with Roller Guide, Tilt Base, Underscribe Plate with Wrenches, Carrying Case

Specifications

Model#	Rating	Motor	Amperage	Max. Tool HP	No Load RPM	Collet Capacity	Base Opening	Height (in.)	Weight (lbs.)
PR10E	120V	PR10E	5.6	1	35,000	1/4"	1-9/16"	7.5	3.2
PR20EVSK (PR20EVSNK)	120V	PR20EVS	5.6	1	16,000-35,000	1/4"	1-9/16"	7.5	3.3



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See pages 117-140 for
router accessories.

Routers

Fixed/Plunge Base Routers

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1617(EVS) – 2 HP Fixed-Base Router
(2.25 HP Fixed-Base Electronic Router)

1617EVSPK – 2.25 HP Combination Plunge
& Fixed-Base Router Pack



1617EVS



1617EVSPK



- Macro and Microfine Bit Depth Adjustment System with Resettable Depth Indicator - For fast, precise depth adjustment
- Now Includes RA1161 Fixed Base with System - For adjusting bit depth from above a router table
- Quick-clamp System - Allows motor to be easily adjusted or moved from base to base
- Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
- Large 3-3/4" Base Opening Plus 2" Subbase Opening - Accepts large bits
- One-piece Armature Shaft - For accuracy and long bit shank capacity
- Dust-sealed Power Switch

Includes: 1/4" & 1/2" S. R. Collet Chucks, 16mm Shaft Wrench, 24mm Collet Nut Wrench, Chip Shield, T-Handle Hex Height Adjustment Wrench

1617EVS also features

- Variable Speed Dial
 - Soft-start - Reduces start-up torque
 - Constant-Response™ Circuitry - Maintains constant speed under load
- Includes:** 1/4" & 1/2" Self-Releasing Collet Chucks, 16mm Shaft Wrench, 24mm Collet Nut Wrench, Chip Shield, T-Handle Hex Height Adjustment Wrench

1617EVSPK also features

- Plunge Base with smooth plunge action, spring-lock plunge lever, and depth rod - For easy and precise plunge routing
- Fine adjustment on depth rod - For fast, accurate bit depth setting
- Easy to Pack Case

Includes: 16171 & 16176 Motors, Plunge & Fixed Bases, 1/4" & 1/2" Self-Releasing Collet Chucks, 16mm Shaft Wrench, 24mm Collet Nut Wrench, Fixed Base Chip Shield, T-Handle Hex Height Adjustment Wrench, Plunge Base Chip Shield, Carrying Case

Routers

1618EVS – 2.25 HP Fixed-Base Electronic
D-Handle Router



- Comfortable D-handle design with trigger switch and reversible auxiliary handle
 - Macro and Microfine Bit Depth Adjustment System with Resettable Depth Indicator - For fast, precise depth adjustment
 - Quick-clamp System - Allows motor to be easily adjusted or moved from base to base
 - Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
 - Large 3-3/4" Base Opening Plus 2" Subbase Opening - Accepts large bits
 - One-piece Armature Shaft - For accuracy and long bit shank capacity
- Includes:** 1/4" & 1/2" Self-Releasing Collet Chucks, 16mm Shaft Wrench, 24mm Collet Nut Wrench, Chip Shield

Specifications

Model#	Rating	Amperage	Max. Tool HP	No Load RPM	Collet Capacity	Base Opening	Base Diameter	Plunge Depth (in.)	Height (in.)	Weight (lbs.)
1617(1617EVS)	120V AC	11(12)	2(2.25)	25,000(8,000-25,000)	1/4", 3/8", 1/2", 8mm	3-3/4"	6"	N/A	8-5/8"(9-1/4")	8.1(8.3)
1617EVSPK	120V AC	12	2.25	8,000-25,000	1/4", 3/8", 1/2", 8mm	3-3/4" (fixed)/ 3-5/16" (plunge)	6" (fixed)/ 6-11/16" (plunge)	2-5/16"	9-1/4"/11-5/8"	8.3 (fixed)/ 10 (plunge)
1618EVS	120V AC	12	2.25	25,000	1/4", 3/8", 1/2", 8mm	3-3/4"	6"	N/A	9-1/4"	8.6



Routers

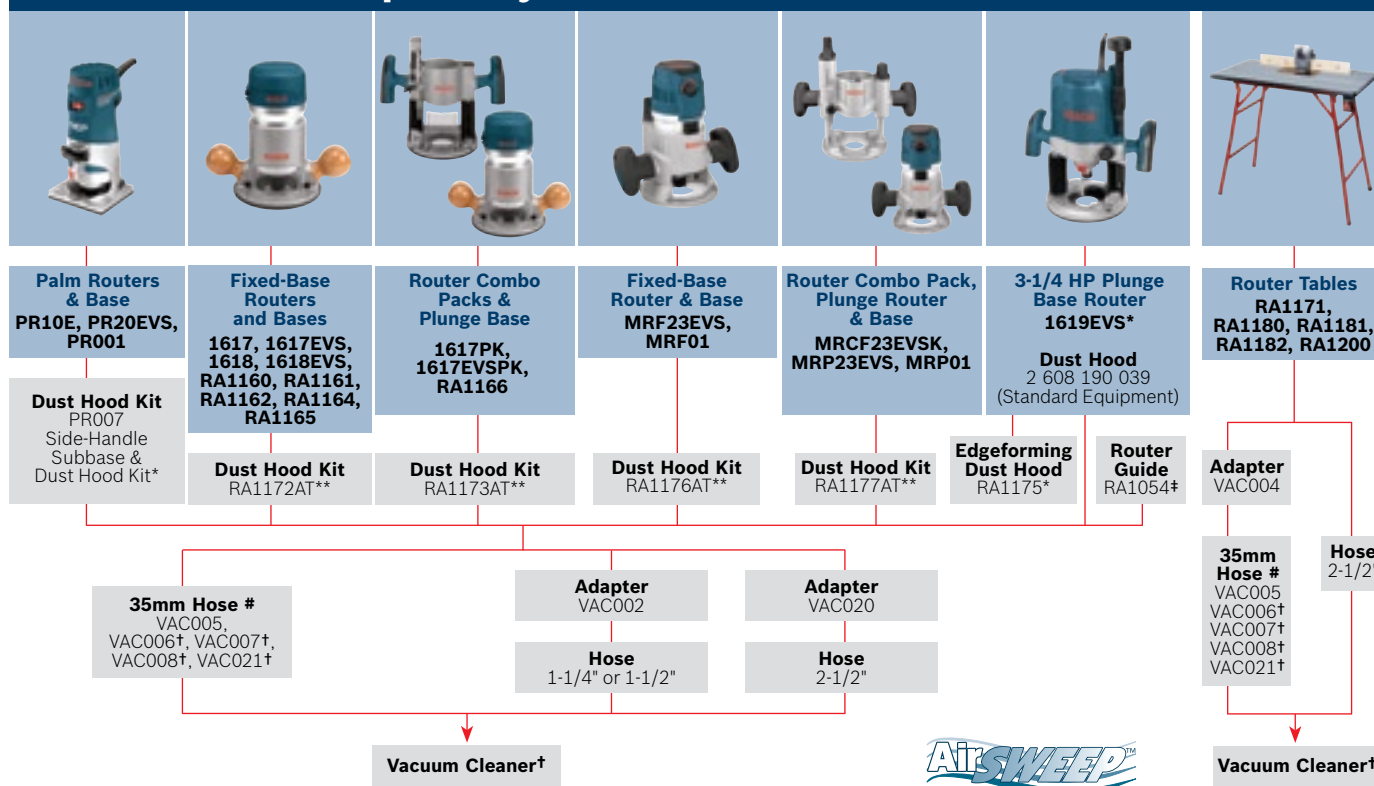
Plunge Router

1619EVS – 3.25 HP Electronic Plunge Router



- The most versatile and precise router above and below the table
 - Converts easily spring mangement for use with router table and back to upright use
 - Bosch-exclusive System - Defeats both plunge lock and plunge springs - For effortless depth adjustments in router table
 - Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
 - 3-3/4" Base Opening and 2" Subbase Opening - Accepts large bits
 - Macro and microfine adjustment knobs plus depth rod and turret - Versatile, precise depth adjustment
 - Variable Speed Dial
 - Soft-start - Reduces start-up torque
 - Constant-Response™ Circuitry - Maintains constant speed under load
- Includes:** 1/4" & 1/2" Self-Releasing Collet Chucks, 24mm Collet Nut Wrench, Fine Adjustment Control Extension, Dust Extraction Hood, Vacuum Hose Adater

Dust Extraction Compatibility Chart



†Competitor vacuum cleaners' ports won't accept VAC006-VAC021 locking hoses. They are only for use with Bosch 3931, 3931A and 3931A-PB vacs.

*Includes VAC002 Adapter.

** The RA1175 Edge-Forming Dust Extraction Hood is also included in the RA1172AT, RA1173AT, RA1176AT, and RA1177AT Kits and can be used with the RA1160, RA1161, RA1162, RA1166, MRF01 and MRP01 router bases. Includes VAC002 Adapter.

†RA1054 Router guide can be used with any of these routers except the palm routers. Includes VAC002 Adapter.

Specifications

Model#	Rating	Amperage	Max. Tool HP	No Load RPM	Collet Capacity	Base Opening	Base Diameter	Plunge Depth (in.)	Height (in.)	Weight (lbs.)
1619EVS	120V AC	15	3.25	8,000-21,000	1/4", 3/8", 1/2", 8mm	3-3/4"	7-1/2"	2-9/16"	12-7/8"	13.2



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See pages 117-140 for
router accessories.

Palm Routers

O1J "J" Roller for Palm Router

- Designed especially for laminate installers.
- The aluminum handle is designed to place the necessary pressure over the roller, with minimum effort.
- The solid non-marking roller is recessed on the end for rolling near walls or backsplashes.
- 1-1/2" Dia. x 3" W x 14" L



PR002 Straight Edge Guide for Palm Router

- Guides router along edges of workpiece or to up to 3-5/8" in from edge
- Includes mounting hardware



PR004 Offset Base with Roller Guide for Palm Router

- Offset Base with Spindle Lock - Allows routing near vertical surfaces, such as when trimming laminate applied to top of countertop backsplash
- Quick-Clamp System - Allows motor to be easily adjusted or moved from base to base
- Spindle lock - For easy bit changes
- Durable aluminum and steel construction
- Includes Base Cover, Phenolic Subbase, 1/4" Self-Releasing Collet, Drive Gear, Special roller guide for PR004 and Comfortable Forged Wrench



PR006 Underscribe Plate with Wrenches for Palm Router

- Underscribe Attachment - Mounts to fixed base for creating precise seams between sheets of laminates
- Easy front-to-back adjustment
- Shield at bottom of bit recess prevents bit from hitting guiding piece of laminate
- Includes Guide Plate, Adjustment Cam, Adjusting Tool, Wrench, Hardware



PR008 Base Cover for Palm Router

- Provides extra insulation from heat in heavy-use situations



PR010 Palm Router Subbase for use with Threaded Templet Guides

- Accepts threaded templet guides (not included)
- Precision Centering Design allows accurate positioning of bit within subbase and templet guides - Makes it easy to follow intended cut line when using jigs, templates, dovetail fixtures and similar guidance devices
- Smooth, long-wearing phenolic construction
- Includes mounting screws



PR001 Fixed Base for Palm Router

- Quick-Clamp System - Allows motor to be easily adjusted or moved from base to base
- Enhanced Bit Capacity - Fixed Base accepts bits up to 1-5/16" in diameter
- Finger Support Pockets - For additional stability, especially when trimming edges
- Includes Phenolic Subbase



PR003 Roller Guide for Palm Router

- Guides router when non-bearing bit or unpiloted bit is used
- Includes mounting hardware



PR005 Tilt Base for Palm Router

- Tilt Base with Detents at Key Angles - Allows routing at special angles and in hard-to-reach areas
- Quick-Clamp System - Allows motor to be easily adjusted or moved from base to base
- Tool-Less Tilt Adjustment Range of 70° - 30° to 45°
- Detents every 7.5° - For easy setting of common angles
- Fast & Precise Depth Adjustment System
- Durable aluminum and steel construction
- Includes Phenolic Subbase



PR007 Side-Handle Subbase with Dust Extraction Port

- Side Handle - Provides additional gripping location for support of router
- Includes vacuum hose port and dust extraction hood for user when edge-forming
- Accepts Bosch VAC005-VAC008 and VAC021 Vacuum Hose or standard 1-1/4" & 1-1/2" hoses
- Can be used with PR006 Underscribe Attachment for creating precision seams between two sheets of laminates. Connection to dust extraction system provides excellent means to prevent chips from getting under laminate sheets and into glue.
- Not for use with templet guides
- Includes Offset Subbase with Side Handle, Hose Port, Dust Collection Hood for use when edge-forming, Two sets of attachment screws, Mounting Screws, VAC002 Vacuum Hoses Adapter



PR009 Palm Router Subbase for use with Bosch RA-Series Templet Guides

- Accepts Bosch RA-Series templet guides (not included)
- Precision Centering Design allows accurate positioning of bit within subbase and templet guides - Makes it easy to follow intended cut line when using jigs, templates, dovetail fixtures and similar guidance devices
- Smooth, long-wearing phenolic construction
- Includes mounting hardware



Medium and Large Routers

MRF001 Fixed Base

- Trigger Control System – Trigger power switch (with lock-on button) conveniently located in handle for enhanced control
- Versatile Fixed Base Depth Adjustment System – For easy and precise bit depth adjustment. Features 1-5/8" (41mm) continuous microfine adjustment range and hex wrench for microfine adjustment through top of optional router table
- Macro and microfine adjustment system with resettable depth indicator – For fast, precise bit depth adjustment
- Large 3-3/4" base opening & 2" subbase opening – Accepts larger bits, and provides better viewing visibility
- Precision Centering Design – Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
- Includes table-mounting hardware and adjustment wrench
- For use with MR23EVS Series Routers



MRP001 Plunge Base

- Trigger Control System – Trigger power switch (with lock-on button) conveniently located in handle for enhanced control
- Afterlock Microfine Depth Adjustment – For easy and precise bit depth adjustment at any plunge setting
- Smooth Plunge Action, Spring-lock Plunge Lever, and Depth Rod – For easy and precise plunge routing
- Adjustable Turret Stop – Makes it easy to set any cumulative depth for multiple-pass operations
- Wide 3-5/16" base opening & 2" subbase opening – Accepts larger bits and provides better visibility
- Precision Centering Design – Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
- Contoured soft grip handles – Provides enhanced control and comfort
- Plunge release lever – Conveniently located to allow maximum control
- For use with MR23EVS Series Routers



RA1161 Fixed Base

- Macro and microfine adjustment system with resettable depth indicator - For fast, precise bit depth adjustment
- Large 3-3/4" base opening & 2" subbase opening - Accepts larger bits, and provides better viewing visibility
- Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
- Same router table features as RA1165
- Includes chip shield, table mounting hardware and adjustment wrench
- For use with 1617-18 Series Router Motors



RA1162 D-Handle Fixed Base

- Macro and microfine adjustment system with resettable depth indicator - For fast, precise bit depth adjustment
- Large 3-3/4" base opening & 2" subbase opening - Accepts larger bits, and provides better viewing visibility
- Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
- Includes chip shield
- For use with 1618 Series Router Motors



RA1165 Router Table Base

- Designed for router table usage
- Wrench access from above table for convenient depth adjustment
- Wide 3-3/4" base opening allows for use of large bits
- Tool-free base change - Quick clamp system allows motor to be moved with ease
- Base is predrilled and tapped for Bosch 4-hole mounting pattern, plus industry-standard 3-hole mounting pattern
- Includes mounting hardware, adjustment wrench and chip shield
- For use with 1617-18 Series Router Motors



RA1166 Plunge Base

- Fine adjustment on depth rod - For fast, accurate bit depth setting
- Wide 3-5/16" base opening & 2" subbase opening - Accepts larger bits and provides better visibility
- Precision Centering Design - Makes it easy to keep bit on intended cutline when using jigs, templates, dovetail fixtures and similar guidance devices
- Contoured soft grip handles - Provides enhanced control and comfort
- Plunge release lever - Conveniently located to allow maximum control
- Plunge depth of 2-5/16"
- For use with 1617-18 Series Router Motors



RA1100 Threaded Templet Guide Adapter

- For use with Bosch routers with Quick Change templet guide adapter system and with PR009 palm router optional subbase
- Allows use of Porter-Cable or any similar threaded templet guides



RA1126 Quick Change Tool-Free Templet Guide Adapter

- For fast and easy changes of Bosch Quick-Change/RA-Style Templet Guides
- See chart on page 114 for router compatibility
- See chart on page 115 for range of Bosch Quick-Change/ RA-Style Templet Guides



RA1110 Bosch Threaded Templet Guide Adapter

- For use with older Bosch routers that use the Bosch "standard style" templet guide adapter system
- Allows use of Porter-Cable, or any similar threaded templet guides



RA1054 Deluxe Router Guide

- Precision fine adjustment control
- Guides cut along the workpiece or up to 8" in from edge
- Easily converts into circle guide for making arcs and circles up to 32" in diameter
- Includes pivot plate, dust extraction hood, vacuum hose adapter & attachment hardware
- Fits models 1613, 1617, 1618, 1619 and MR23EVS series routers and bases



RA1151

- For precise centering of router subbases or templet guides
- For use with all Bosch routers that have Precision Centering Design, including Palm Routers


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Router Tables

RA1171

Benchtop Router Table



Features

- Smooth laminated top for precision woodworking with 25" x 15-1/2" work surface
- 4-7/8" x 25-1/8" aluminum fence with adjustable MDF face plates. Outfeed can be offset for jointing
- Rigid aluminum router mounting plate pre-drilled for a wide variety of routers
- Starter pin and guard included. Offers support for routing curved work pieces
- Dust ports on fence and in cabinet fit standard 2-1/2" vacuum hoses
- 2 adjustable featherboards mount on fence or table to guide work
- Dual outlet switch with 6' power cord. Lock helps prevent unauthorized use

Specifications

Height (in.)	14-1/2"
Depth (in.)	15-7/8"
Width (in.)	25-1/2"
Max. Fence Opening (in.)	3-3/16"
Max. Throat Opening (in.)	3-5/8"
Cord Length (ft.)	6'

Includes

Adjustable Featherboards (2) . 2 610 927 685
Mounting Plate Insert Rings to adjust opening bit size (3) 2 610 915 125
Adjustable Clear Guard 2 610 927 687
Starter Pin 2 610 927 738
Starter Pin Guard 2 610 915 134
Outfeed Fence
Shims - 1/16" thick (2) 2 610 927 690
Hardware for Mounting Routers

RA1181

Benchtop Router Table



Features

- Large precision machined 27" x 18" aluminum work surface
- 4-7/8" x 25-1/8" aluminum fence with adjustable MDF face plates. Outfeed can be offset for jointing
- Rigid aluminum router mounting plate pre-drilled for a wide variety of routers
- Starter pin and guard included. Offers support for routing curved work pieces
- Dust collection port on fence fits standard 2-1/2" vacuum hoses
- 2 adjustable featherboards mount on fence or table to guide work
- Dual outlet switch with 6' power cord. Lock helps prevent unauthorized use

Specifications

Height (in.)	14-1/2"
Depth (in.)	18"
Width (in.)	27"
Max. Fence Opening (in.)	3-3/16"
Max. Throat Opening (in.)	3-5/8"
Cord Length (ft.)	6'

Includes

Adjustable Featherboards (2) . 2 610 927 685
Mounting Plate Insert Rings to adjust opening bit size (3) 2 610 915 125
Adjustable Clear Guard 2 610 927 687
Starter Pin 2 610 927 738
Starter Pin Guard 2 610 915 134
Outfeed Fence
Shims - 1/16" thick (2) 2 610 927 690
Hardware for Mounting Routers

RA1200

Portable Router Table



Features

- Extra-large 44" x 24" x 1-1/4" laminated MDF work surface
- Precision machined 24" aluminum fence with adjustable wood faces and easy-to-grasp knobs
- No-flex phenolic router mounting plate with leveler; pre-drilled for a wide variety of routers
- Built-in table leveling for fast, tool-free set-up
- Easy access lockable on/off switch
- 2 adjustable featherboards to attach to fence and table, providing additional guidance and kickback protection
- Locking T-slot accepts 3/4" standard or T-slot accessories
- Dust collection port for standard 2-1/2" vacuum hoses
- Stands 36" high
- Locking steel legs fold to compact size
- Includes 6 metal shims for adjusting outfeed fence

Specifications

Height (in.)	36"
Depth (in.)	24"
Width (in.)	44"
Max. Fence Opening (in.)	4-1/4"
Max. Throat Opening (in.)	3-3/4"

Includes

Insert Rings (2), Start Pin, and Auxiliary Guard 2 610 915 902
Adjustable Featherboards 2 610 907 916
Adjustable Clear Guard 2 610 907 918
Hardware for Mounting Most Bosch Routers
Outfeed Fence Shims (6)

Router Table Accessories

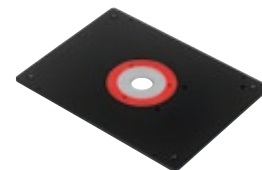
RA1185 Router Table Mounting Plate

- Strong 3/8" thick plate
- Ready to be drilled to accept most routers (except D-handle models)
- Fits Router Table Models RA1171, RA1180, RA1181, RA1182



RA1250 Mounting Plate

- For use with RA1200
- Strong thermoset 3/8" thick phenolic mounting plate
- Ready to be drilled to accept most routers (except D-handle models)
- Includes corner mounts and insert rings



Edge Forming Single Dust Extraction Hood



- Hose port angle maximizes collection efficiency, keeps hose out of the way
- Includes one vacuum adapter for 35mm, 1-1/4" & 1-1/2" hoses

RA1175

(see router compatibility chart below)

2-Hood Dust Extraction Kit



- With dust extraction hoods for edge forming & flat surface applications
- Consists of RA1175, plus hood for flat work surface applications with fixed-base

RA1172AT

(fits 1617/1618 series)

RA1176AT

(fits MRF23EVS)

3-Hood Dust Extraction Kit



- With dust extraction hoods for edge forming & flat surface applications
- Consists of 2-Hood kit, plus hood for flat work surface applications with plunge base

RA1173AT

(fits 1617EVSPK)

RA1177AT

(fits MRP23EVS and MRC23EVS)

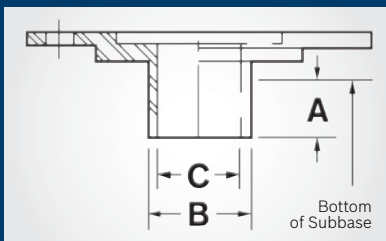
Templet Guides



Quick Change/RA-Style

ROUTER COMPATIBILITY

- 1613, 1613EVS, 1614, 1614EVS - The templet guides are attached to these routers by using the router's built-in templet guide adapter.
- 1613AEVS, 1617, 1617EVS, 1618, 1618EVS, 1619EVS, MRF23EVS, MRP23EVS, MRC23EVS - The templet guides are attached to these routers by using the RA1126 Templet Guide Adapter (sold separately).
- PR10E, PR20EVS - The templet guides are attached to these routers by placing the templet's flange in recess at top of the PR009 Subbase (sold separately) and then mounting it to the router.



A = Distance templet guide tip extends from bottom of base

B = Outside diameter templet guide tip

C = Inside diameter templet guide tip

Note: Cut diameter of router bit should be at least 1/16" less than dimension "C" on templet guide.

Templet Guides

Primary Application	Templet Guide Item #	Templet Guide Dimensions		
		A	B	C
General	RA1107	5/16"	7/16"	3/8"
General	RA1109	7/16"	1/2"	13/32"
General	RA1111	3/16"	5/8"	17/32"
General	RA1115	3/16"	3/4"	21/32"
General	RA1117	31/64"	13/16"	5/8"
General	RA1119	31/64"	1"	25/32"
Large dovetail	RA1105	9/64"	7/16"	3/8"
Radius hinge, 1/4"	RA1113	1/2"	5/8"	17/32"
Radius hinge, 5/8"	RA1121	7/16"	1-3/8"	1-19/64"
Small dovetail	RA1103	9/64"	5/16"	17/64"

7 pc. templet guide kit

RA1125

includes RA1103, RA1105, RA1109, RA1113, RA1115 and RA1100 adapter for threaded templet guides



Router inlay kit

RA1127

includes RA1101 and 85213M router bit



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Medium and Large Routers Accessory Compatibility

Router Item

1618	1617/PK	1611/1615 Series	1614 Series	1613AEVS	1613 & 1613EVS	1601-1606 Series	RA1200	RA1171, RA1181	1619EVS	1618EVS	1617EVS/PK	1617EVS	1617	MRP23EVS	MRP23EVS	MRC23EVS	Models
							X	X						•	Incl.	Incl.	MRF001 Fixed Base
														Incl.	•	Incl.	MRP001 Plunge Base
•	FB	RA1001†							•	•	FB	•	•	•	•	•	RA1002 Adjustable Extension
•	•	•	RA1052†	•	•				•	•	•	•	•	•	•	•	RA1054 Router Guide
Z	Z	RA1110†	•	Z	•	RA1110†			Z	Z	Z	Z	Z	Z	Z	Z	RA1100 Threaded Templet Guide Interface
•	•			•					•	•	•	•	•	•	•	•	RA1126 Quick-Change Templet Guide Adapter
•	•			•					•	•	•	•	•	•	•	•	RA1151 Centering Cone
•	Incl.						S	S		•	Incl.	Incl.	Incl.				RA1160/RA1161 Fixed Base
Incl.										Incl.							RA1162 D-Handle Base
*	*						S	S		*	*	*	*				RA1165 Under-Table Base
•	Incl.									•	Incl.	•	•				RA1166 Plunge Base
	FB	△	△	•	•				•		FB	•	•				RA1171.RA1181/RA1180/RA1182 Router Tables
•	•									•	•	•	•				RA1172AT Dust Hood Kit
	•										•						RA1173AT Dust Hood Kit
•	•			•	•	•			•	•	•	•	•	•	•	•	RA1175 Edge forming Dust Hood
															•	•	RA1176AT Edge forming /Fixed Base DustHood
														•	•	•	RA1177AT Edge forming/ Fixed & Plunge Base DustHood
	FB	•	•	•	•			•	•		FB	•	•				RA1185 Mounting Plate
	FB	○	○	•	•				•		FB	•	•				RA1200 Router Table
	FB	•	•	•	•		•		•		FB	•	•				RA1250 Mounting Plate
Incl.	Incl.	†	†	Incl.	Incl.				Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	1/4" Collet Chuck 2 610 906 283
Incl.	Incl.	†	†	Incl.	Incl.				Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	Incl.	1/2" Collet Chuck 2 610 906 284

Notes:

Incl. = Included

• = Compatible

* = Only for use in router table with 1617/18 series router motors.

FB = Compatible with fixed base only

† = Requires model other than model listed at top of column.

△ = Requires RA1185 mounting plate

○ = Requires RA1250 mounting plate

Z = Quick-Change templet guide adapter RA1126 (2610991370) required

S = For use with 1617/1618 series router motors

X = For use with MRP23EVS series router motors

Optional Router Equipment Compatibility

Routers



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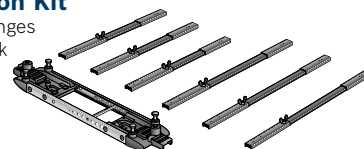
83038 Deluxe Door and Jamb Hinge Templet Kit

- For metal or wood stops. Also for remodeling - New door in old mortised jamb
- Transfers directly from jamb to door (or vice-versa) with hinges on either side of door - No turning templet end over end
- No straight edges, measuring tools, or calculations required
- Works with or without the stops installed
- Includes the deluxe hinge template, metal case, one regular and one 3 601 321 516 extra long top gauge assembly and 85159 bit
- Templet guide required, not included
- Use the competitive brand templet guide which matches the dimensions of the Bosch Templet Guide No. RA1113 as listed on page 115



83039 4-Hinge Conversion Kit

- Used when mortising for four hinges on 7'-9' doors. Includes three link rails for 7'-8' doors, three link rails for 8'-9' doors and one extra frame section
- Fits 83038 kit



Extra Templet Nails

For Hinge Templet Kit

83000, 83001, 83002, 83003
83037, 83038

Use Nail Item

83008 (12 pkg)
83018 (1 pkg)



Jamb Gauge Blocks

- Must be used when transferring hinge location from metal jambs to wood doors. Used with 83038 Deluxe Hinge Templet. Order three of a size for 3-hinge doors and four of a size for 4-hinge doors.

Item #	Hinge Size
83044	3"
83045	3-1/2"
83046	4"
83047	4-1/2"
83048	5"



83004 Extra-Long Link Rails

- Special link rails for use with 83002 & 83038 hinge templates when mortising 3-hinge, 8' door. (2 pcs.)



Router/Hinge Mortising Specifications & Where Used

To Rout Hinge Mortises for Doors with these Requirements

For Door & Jamb Hinge Templet

Door Height	Number of Hinges	Door Hinge Thickness	Hinge Size	For Wood Use or Metal* Jambs	Use Extra Link Rails	Use Conversion Kit
6' 6" to 7'	2 or 3	1-3/8" to 2-1/4"	2-1/2" to 5-1/2"	83038	NA	NA
8'	3	1-3/8" to 2-1/4"	2-1/2" to 5-1/2"	83038	83004	NA
7' to 9'	4	1-3/8" to 2-1/4"	2-1/4" to 5-1/2"	83038	NA	83039

*Metal jamb gauge blocks are required when working with metal jambs

Templet Guides & Router Bits Needed for Hinge Routing

When Using This Router	And Your Hinge Butt Has This Corner Radius	Use This Templet Guide	Use This Router Bit	Use This Cutter Head and Threaded Shank
1613, 1613EVS, 1613AEVS, 1614, 1614EVS, 1617, 1617EVS, 1618, 1618EVS, 1619EVS, MR23EVS	1/4"	RA1113	85159	NA
1613, 1613EVS, 1613AEVS, 1614**, 1614EVS**, 1617, 1617EVS, 1618, 1618EVS, 1619EVS, MR23EVS	5/8"	RA1121	NA	85238M and 92839 (1/4" Shank) or 85234M and 92840 (1/2" Shank)

**1614, 1614EVS only accept 1/4" Shank



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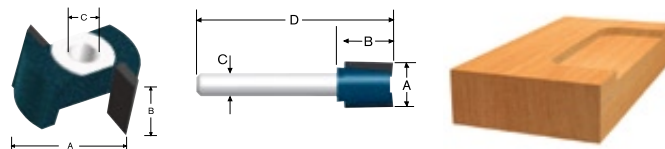
Straight/Mortising Bits



Carbide Tipped Hinge Mortising Bits

Micrograin bits cut fast for mortises when work is started at the edge and provide a smooth finish cut that is ideal for surfacing operations. Useful when good chip clearance is important, especially in gummy wood.

- 82816 and 82818 are shanks for use with 85234M
- 92839 and 92840 are shanks for use with 85238M
- 85158 and 85159 are HSS bits

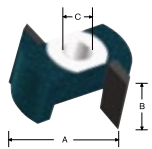


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Thread
85158	7/16"	3/8"	1/4"	1-7/8"	N/A
85159	1/2"	13/32"	1/4"	2-1/4"	N/A
85249M	1/2"	3/4"	1/4"	2"	N/A
85236M	5/8"	3/4"	1/4"	2"	N/A
85248M	3/4"	3/4"	1/4"	2"	N/A
85234M	1/2"	1/2"	N/A	N/A	1/4"-28
82816	N/A	N/A	1/4"	N/A	1/4"-28
82818	N/A	N/A	1/2"	N/A	1/4"-28
85238M	1-1/4"	35/64"	N/A	N/A	5/16"-24
92839	N/A	N/A	1/4"	N/A	5/16"-24
92840	N/A	N/A	1/2"	N/A	5/16"-24

Carbide Tipped Lock Mortising Bits

Micrograin bits that work with lock mortisers using 1/4" - 28 thread. Mount directly on the spindle shaft of Bosch item 1604LM or Porter Cable 513.

- 82816 and 82818 are shanks that allow lock mortising cutters to be used in portable routers

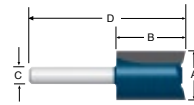


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	Thread	Description
85634M	3/4"	1/2"	N/A	1/4"-28	Cutter
85635M	1"	1/2"	N/A	1/4"-28	Cutter
85636M	1-1/4"	9/16"	N/A	1/4"-28	Cutter
82816	N/A	N/A	1/4"	1/4"-28	Arbor
82818	N/A	N/A	1/2"	1/4"-28	Arbor

Carbide Tipped Plywood Mortising Bits

Micrograin bits designed with undersized cut diameters to match up to the actual thickness of 1/4", 1/2" and 3/4" plywood. Produce a tight fit when mortising standard plywood.

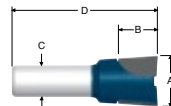
- 84600M is a solid carbide bit



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Application
84600M	15/64"	3/4"	1/4"	2"	for 1/4" plywood
84601M	31/64"	3/4"	1/4"	2-1/4"	for 1/2" plywood
84602M	23/32"	3/4"	1/4"	2"	for 3/4" plywood
84625M	31/64"	1"	1/2"	2-5/8"	for 1/2" plywood
84603M	23/32"	1-1/4"	1/2"	2-7/8"	for 3/4" plywood

Carbide Tipped Stair Routing Bit

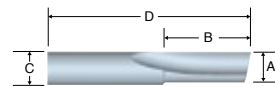
Micrograin bit cuts a dovetail-like joint for cutting stair stringers to accept stair treads.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Angle
85413M	7/8"	7/8"	1/2"	2-1/2"	3°

Solid Carbide Single Flute Straight Bits

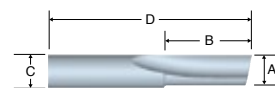
Designed for operations where high production feed rates are essential.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85208M	1/16"	3/16"	1/4"	1-5/8"
85209M	1/8"	7/16"	1/4"	2"
85212M	3/16"	7/16"	1/4"	2"
85215M	1/4"	3/4"	1/4"	2"

Solid Carbide Double Flute Straight Bits

Micrograin bits provide exceptional smoothness of cut and balanced cutting with minimal vibration. Positive hook angles cut efficiently, and specially designed tips allow for fast plunge cutting. Strong webbing and heavy cutter backing provide superior bit life.

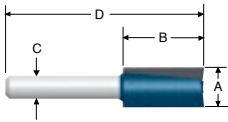


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85213M	1/8"	7/16"	1/4"	2"
85214M	3/16"	7/16"	1/4"	2"
85617M	1/4"	1"	1/4"	2-7/8"

Straight/Mortising Bits

Carbide Tipped Double Flute Straight Bits

Micrograin bits designed to give excellent smoothness of cut and balanced cutting with minimal vibration. Positive hook angles cut efficiently while specially designed tips provide fast plunge cutting. Strong webbing and heavy cutter backing extend bit life.

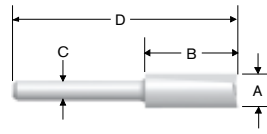


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85221M	1/4"	5/8"	1/4"	2"
85250M	1/4"	7/8"	1/4"	2-1/8"
85460M*	1/4"	3/4"	1/2"	2-1/2"
85613M*	1/4"	1"	1/4"	2-1/4"
85459M*	1/4"	1"	1/4"	2-7/8"
85223M	9/32"	1"	1/4"	2-1/4"
85274M	5/16"	3/4"	1/2"	2-1/2"
85224M	5/16"	1"	1/4"	2-1/4"
85253M	5/16"	1"	1/2"	2-3/4"
85277M	3/8"	3/4"	1/2"	2-1/2"
85225M	3/8"	1"	1/4"	2-1/4"
85241M	3/8"	1"	1/2"	2-3/4"
85276M	3/8"	1"	3/8"	2-1/2"
84207M	3/8"	1-1/4"	1/2"	3"
85228M	3/8"	1-1/4"	3/8"	3-3/8"
85254M	13/32"	3/4"	1/2"	2-1/2"
85226M	7/16"	1"	1/4"	2-1/8"
85255M	7/16"	1-1/4"	1/2"	3"
85227M	1/2"	1"	1/4"	2-1/4"
85427M	1/2"	1"	1/2"	2-5/8"
84209M	1/2"	1"	3/8"	2-1/2"
84210M	1/2"	1-1/4"	1/2"	2-7/8"
85242M	1/2"	1-1/2"	1/2"	3-1/8"
85256M	1/2"	1-1/2"	1/2"	4-1/4"
85251M	1/2"	2"	1/2"	4-1/4"
85252M*	1/2"	2-1/2"	1/2"	4-1/2"
85257M	17/32"	1-1/4"	1/2"	2-7/8"
85258M	9/16"	1-1/4"	1/2"	2-7/8"
85229M	9/16"	3/4"	1/4"	2-1/8"
85230M	5/8"	3/4"	1/4"	2"
85454M	5/8"	1-1/4"	1/2"	2-7/8"
85259M	21/32"	1-1/4"	1/2"	2-7/8"
85260M	11/16"	1-1/4"	1/2"	2-7/8"
85232M	3/4"	3/4"	1/4"	2"
85265M	3/4"	1-1/4"	1/2"	2-7/8"
85222M	3/4"	2"	3/4"	4"
82086M	3/4"	1-1/2"	1/2"	3-1/8"
85272M	3/4"	2"	1/2"	3-5/8"
82085M	3/4"	2-1/2"	3/4"	4-1/2"
85273M	25/32"	1-1/4"	1/2"	2-7/8"
85262M	13/16"	3/4"	1/4"	2"
85457M	13/16"	1-1/4"	1/2"	2-7/8"
85458M	7/8"	1-1/4"	1/2"	2-7/8"
85243M	1"	1-1/4"	1/2"	2-7/8"
85235M	1-1/16"	1-1/4"	1/2"	2-7/8"
85465M	1-1/8"	1-1/4"	1/2"	2-7/8"
85466M	1-1/4"	1-1/4"	1/2"	2-7/8"
85469M	1-1/2"	1-1/4"	1/2"	2-7/8"

* Not guaranteed against breakage due to extreme length.

High Speed Steel Double Flute Straight Bits

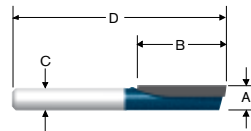
Provide smooth and balanced cutting with minimal vibration. Positive hook angles cut efficiently while specially designed tips provide fast plunge cutting. Strong webbing and heavy cutter backing extend bit life.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85096	1/4"	3/4"	1/4"	2"
85180	1/4"	1-1/8"	1/4"	2-3/8"
85097	5/16"	3/4"	1/4"	2"
85181	5/16"	1-1/8"	1/4"	2-3/8"
85098	3/8"	7/8"	1/4"	2-1/16"
85100	1/2"	7/8"	1/4"	2-1/4"
85140	1/2"	1-1/8"	1/2"	2-9/16"
85182	1/2"	2"	1/2"	4"
85102	5/8"	5/8"	1/4"	1-5/8"
85104	3/4"	5/8"	1/4"	1-5/8"

Carbide Tipped Single Flute Straight Bits

Micrograin bits designed for roughing operations where high production feed rates are essential. Optimum chip clearance and specially designed tip allows for fast plunge cutting.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85279M	3/16"	7/16"	1/4"	2"
84206M	1/4"	3/4"	1/4"	2"
85404M	1/4"	3/4"	1/2"	2-1/2"
85410M	1/4"	1"	1/4"	2-1/4"
85412M	9/32"	3/4"	1/4"	2"
85263M	3/8"	1"	3/8"	2-1/2"
85419M	3/8"	1-1/4"	3/8"	2-7/8"
85409M	3/8"	1"	1/2"	2-3/4"
85425M	1/2"	3/4"	1/2"	2-3/8"
85426M	1/2"	1-1/4"	1/2"	3-1/8"
85402M	1/2"	1-1/2"	1/2"	3-1/8"
85264M	1/2"	2"	1/2"	4-1/4"

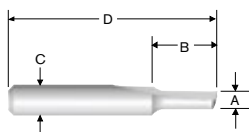

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Straight/Mortising Bits

High Speed Steel Single Flute Straight Bits

Designed for roughing operations where high production feed rates are essential. Optimum chip clearance and specially designed tip allows for fast plunge cutting.

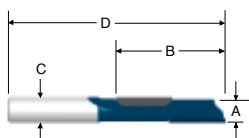


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Quantity
85091	1/16"	1/8"	1/4"	1-3/8"	1
85092	1/8"	5/16"	1/4"	1-1/2"	1
85152	1/8"	5/8"	1/4"	1-31/32"	1
85152B100*	1/8"	5/8"	1/4"	1-31/32"	100
85094	3/16"	7/16"	1/4"	1-17/32"	1
85153	3/16"	3/4"	1/4"	2-1/32"	1
85153B100*	3/16"	3/4"	1/4"	2-1/32"	100
85093	5/32"	1/2"	1/4"	2"	1
85154	1/4"	1"	1/4"	2-1/4"	1

* Bulk item.

Staggertooth Bits

Micrograin bits with staggered cutting flutes give 2-flute balance with single flute chip clearance for fast plunge cutting.

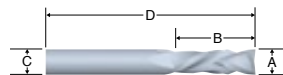


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85291M	3/8"	1-3/8"	3/8"	3"
85201M	3/8"	1-1/2"	1/2"	3-1/8"
85278M	1/2"	2-1/4"	1/2"	4-1/2"

Spiral Bits

Solid Carbide Double Flute Compression Up/Down Spirals

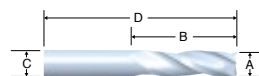
Ideal for general use with difficult-to-route materials. Specific bits rout rigid hard plastics, double-sided plywood and melamine.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
86026M	1/4"	7/8"	1/4"	2-1/2"

Solid Carbide Triple Flute Upcut Spirals

Bits work best on hard-to-route materials under reduced spindle speeds or horsepower. The upcut yields superior chip removal and a smooth finish.



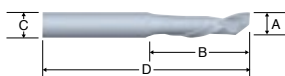
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85961M	1/2"	1-1/4"	1/2"	3"

Routers

Spiral Bits

Solid Carbide Single Flute Compression Spirals

Bits feature open flutes with single edges for the most efficient chip-ejection at faster speeds.

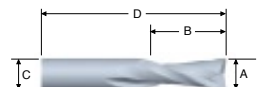


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
86019M	1/2"	1-1/4"	1/2"	3"
86020M	1/2"	1-5/8"	1/2"	3-1/2"

Solid Carbide Double Flute Extra-long Spirals

Suitable for use when long flute length is required. Especially useful for cutting the front built-up edge on a countertop when a thick, smooth edge is required.

Industrial / CNC bit for high duty cycle applications



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Spiral
85922M	1/2"	1-5/8"	1/2"	3-1/2"	Up

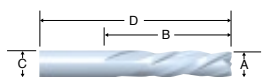
Router Bits

Spiral/Plastic Cutting

Spiral Bits

Solid Carbide Triple Flute Downcut Spirals

Ideal for penetrating hard-to-route materials under reduced spindle speeds or horsepower. The downcut holds the material and forces chips down during routing.

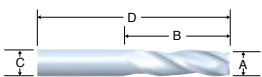


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85974M	1/2"	1"	1/2"	3"

Solid Carbide Double Flute Up Spirals

For use when material needs to be pulled in an upward motion toward the router motor, improving chip removal. Excellent when dust collection is required.

Industrial / CNC bit for high duty cycle applications

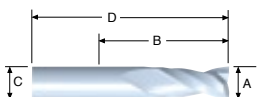


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85908M	1/8"	1/2"	1/4"	2"
85909M	3/16"	3/4"	1/4"	2"
85910M	1/4"	3/4"	1/4"	2-1/2"
85911M	1/4"	1"	1/4"	2-1/2"
85912M	3/8"	1"	3/8"	2-1/2"
85913M	3/8"	1-1/4"	1/2"	3"
85914M	1/2"	1-1/4"	1/2"	3"
85917M	1/2"	1-5/8"	1/2"	3-1/2"

Solid Carbide Double Flute Down Spirals

For use when material needs to be pushed away from the router motor. Excellent bits for templet cutting when downward pressure is advantageous.

Industrial / CNC bit for high duty cycle applications



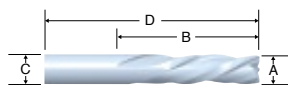
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85900M	1/8"	1/2"	1/4"	2"
85901M	3/16"	3/4"	1/4"	2"
85902M	1/4"	3/4"	1/4"	2-1/2"
85903M	1/4"	1"	1/4"	2-1/2"
85905M	3/8"	1-1/4"	1/2"	3"
85906M	1/2"	1-1/4"	1/2"	3"
85918M	1/2"	1-5/8"	1/2"	3-1/2"

Plastic Cutting Bits

Solid Carbide Double Flute Chipbreaker Spirals

Appropriate for use when faster feed rates and chip removal are desired. Available in up or down spirals to suit all applications.

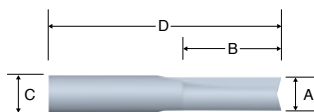
Industrial / CNC bit for high duty cycle applications



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Spiral
85907M	1/2"	1-1/8"	1/2"	3"	Down
85915M	1/2"	1-1/8"	1/2"	3"	Up

Solid Carbide Double Flute Straight Bits

Micrograin bits for general purpose routing of difficult-to-cut materials, particularly when smaller diameters are required

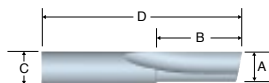


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85987M	1/4"	1"	1/4"	2-1/2"
85993M	7/16"	1-1/8"	1/2"	3"

Plastic Cutting Bits

Solid Carbide Single Flute O-flute Bits

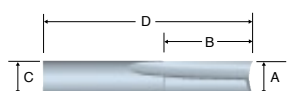
Micrograin bits for fast plastic cutting at high speeds. Ideal for soft plastics such as ABS, polycarbonate, polyethylene and PVC. The single flute design allows for a faster feed rate.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85997M	3/16"	5/8"	1/4"	2"
86002M	3/8"	1"	3/8"	2-1/2"

Solid Carbide Double Flute O-flute Bits

Micrograin bits for fast, smooth plastic cutting at high speeds. 2-flute design provides an exceptional edge finish. Good for soft plastics such as ABS, polycarbonate, polyethylene and PVC.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
86007M	1/8"	1/2"	1/4"	2"
86010M	1/4"	1"	1/4"	2-1/2"

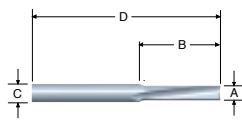

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For more details visit
Boschtools.com

Plastic Cutting Bits (Cont'd.)

Solid Carbide Double Flute Acrylic Bit

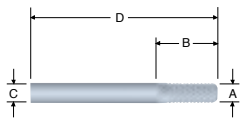
Micrograin bit for cutting single or multiple layers of acrylics and similar plastics. Unique bit geometry produces an improved finish, reduces heat buildup and prevents welding in the cut.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85611M	1/4"	1"	1/4"	2-1/2"

Solid Carbide Fiberglass Bit/Burr Bit

Useful for cutting fiberglass, epoxies and similar composite material



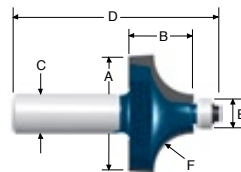
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85619M	1/4"	3/4"	1/4"	2"

Edge Forming Bits



Carbide Tipped Beading Bits

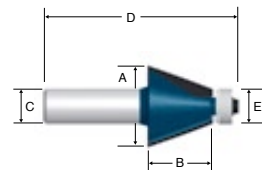
Micrograin control cut bits used to create attractive, decorative edging. Items 84413M and 85493M are not control cut bits.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Radius
84413M	7/8"	1/2"	1/2"	2-7/16"	3/8"	3/16"
85493M	7/8"	1/2"	1/4"	2"	3/8"	3/16"
85494M	1"	1/2"	1/4"	2"	3/8"	1/4"
84416M	1"	1/2"	1/2"	2-7/16"	3/8"	1/4"
85495M	1-1/8"	1/2"	1/4"	2-1/16"	3/8"	5/16"
85496M	1-1/4"	5/8"	1/4"	2-3/16"	3/8"	3/8"
85599M	1-1/4"	5/8"	1/2"	2-9/16"	3/8"	3/8"
85497M	1-1/2"	3/4"	1/4"	2-1/4"	3/8"	1/2"
85600M	1-1/2"	3/4"	1/2"	2-5/8"	3/8"	1/2"

Carbide Tipped Chamfer Bits

Micrograin control cut bits for beveling and decorative edging.

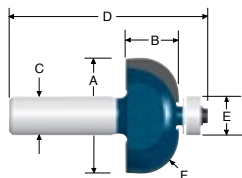


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	Angle
85299M	1-1/4"	15/16"	1/2"	2-7/8"	1/2"	22.5°
85597M	1-1/4"	1/2"	1/2"	2-3/8"	3/8"	45°
85298M	1-1/4"	1/2"	1/4"	2"	3/8"	45°
85593M	2-1/2"	1"	1/2"	2-7/8"	1/2"	45°

Edge Forming Bits

Carbide Tipped Cove Bits

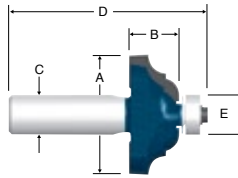
Micrograin control cut bits for decorative edging and period furniture.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Radius
85205M	7/8"	9/16"	1/4"	2"	3/8"	1/4"
84425M	7/8"	9/16"	1/2"	2-3/8"	1/2"	1/4"
85206M	1-1/8"	9/16"	1/4"	2"	3/8"	3/8"
84428M	1-1/8"	9/16"	1/2"	2-3/8"	1/2"	3/8"
85204M	3/4"	9/16"	1/4"	2"	1/2"	3/16"
85207M	1-3/8"	3/4"	1/4"	2-1/4"	1/2"	1/2"
84431M	1-3/8"	3/4"	1/2"	2-1/2"	3/8"	1/2"
84430M	1-5/8"	11/16"	1/2"	2-1/2"	1/2"	5/8"
84437M	2"	1"	1/2"	2-7/8"	1/2"	3/4"

Carbide Tipped Classical Bits

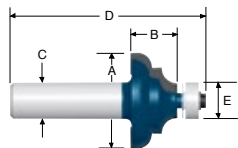
Micrograin control cut bits that add classic beauty with decorative edging.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
85579M	1-1/4"	1/2"	1/4"	2"	1/2"
85580M	1-1/4"	1/2"	1/2"	2-3/8"	1/2"
85581M	1-1/2"	5/8"	1/4"	2-1/8"	1/2"
85582M	1-1/2"	5/8"	1/2"	2-1/2"	1/2"

Carbide Tipped Cove & Bead Bits

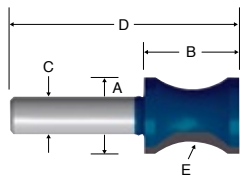
Micrograin bits used to create an attractive accent with a classic woodworking design.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
85604M	1-3/8"	11/16"	1/4"	2-3/16"	1/2"
85605M	1-3/8"	11/16"	1/2"	2-9/16"	1/2"

Carbide Tipped Convex Edging Bit

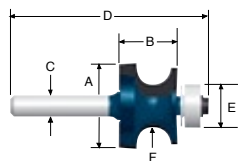
Micrograin bits used to create a shallow bullnose. Cutters above and below bit creates a top and bottom fillet on thicker stock.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Radius
84440M	13/16"	1-1/4"	1/2"	2-3/4"	23/32"

Carbide Tipped Edge Beading Bits

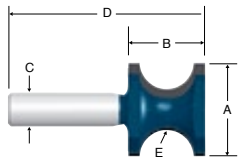
Versatile micrograin bits used for adding attractive edging on new pieces and matching many older molding cuts for remodeling work.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Radius
85631M	7/8"	9/16"	1/4"	2-1/8"	1/2"	1/8"
85632M	7/8"	9/16"	1/2"	2-1/2"	1/2"	1/8"
85666M	1-1/8"	11/16"	1/4"	2-1/4"	1/2"	3/16"
85668M	1-1/4"	3/4"	1/4"	2-1/4"	5/8"	1/4"
85669M	1-1/4"	3/4"	1/2"	2-5/8"	5/8"	1/4"

Carbide Tipped Bullnose Bits

Micrograin bits used for window sills, shelves or stair treads.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Radius
84438M	19/32"	1/2"	1/4"	1-3/4"	1/8"
84432M	19/32"	1/2"	1/2"	2"	1/8"
84435M	7/8"	3/4"	1/4"	2"	13/64"
84433M	7/8"	3/4"	1/2"	2-1/4"	13/64"
84434M	1-1/4"	1-5/16"	1/2"	2-3/4"	3/8"
84436M	1-11/16"	1-9/16"	1/2"	3-1/16"	1/2"

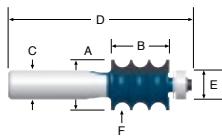

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Edge Forming Bits

Carbide Tipped Multi Bead/Reeding Bits

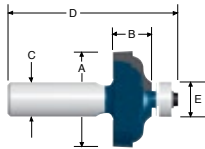
Micrograin control cut bits for creating classic triple beading with fillets in one pass.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Radius
84611M	7/8"	1"	1/2"	3"	1/2"	1/8"

Carbide Tipped Ogee Bits with Fillet

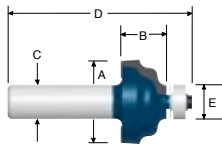
Micrograin control cut bits allow for three distinct cuts with one bit. Graceful lines of the ogee cut can be attractively accented with one or two fillets by lowering the depth setting or using 3/8" bearing (Item 3 600 900 501).



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
85584M	1-3/8"	1/2"	1/4"	2-1/16"	1/2"
85586M	1-5/8"	3/4"	1/2"	2-5/8"	1/2"

Carbide Tipped Wavy Edge Bits

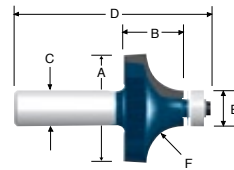
Micrograin bits with a unique pattern to create soft, rounded corners.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
85606M	1-1/4"	11/16"	1/4"	2-1/4"	1/2"
85607M	1-1/4"	11/16"	1/2"	2-5/8"	1/2"

Carbide Tipped Roundover Bits

Micrograin bits used for smooth, uniformly rounded edges. A lower depth setting produces a rounded corner with a decorative bead.

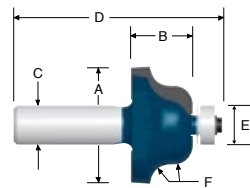


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Radius
85289M	5/8"	5/16"	1/4"	1-3/4"	1/2"	1/16"
85290M	3/4"	3/8"	1/4"	2"	1/2"	1/8"
85588M	3/4"	3/8"	1/2"	2-5/16"	1/2"	1/8"
85616M	3/4"	3/8"	1/4"	2-1/4"	1/2"	5/32"
85587M	5/8"	5/16"	1/2"	2-1/4"	1/2"	1/16"
85293M	7/8"	1/2"	1/4"	2"	1/2"	3/16"
84402M	7/8"	1/2"	1/2"	2-7/16"	1/2"	3/16"
85294M*	1"	1/2"	1/4"	2"	1/2"	1/4"
84405M*	1"	1/2"	1/2"	2-7/16"	1/2"	1/4"
85295M*	1-1/8"	1/2"	1/4"	2-1/16"	1/2"	5/16"
84408M*	1-1/8"	1/2"	1/2"	2-7/16"	1/2"	5/16"
85296M*	1-1/4"	5/8"	1/4"	2-3/16"	1/2"	3/8"
85594M*	1-1/4"	5/8"	1/2"	2-9/16"	1/2"	3/8"
85297M*	1-1/2"	3/4"	1/4"	2-1/4"	1/2"	1/2"
85595M	1-1/2"	3/4"	1/2"	2-5/8"	1/2"	1/2"
85596M*	1-3/4"	7/8"	1/2"	2-3/4"	1/2"	5/8"
85434M*	2"	1"	1/2"	2-7/8"	1/2"	3/4"
85432M*	2-1/4"	1-1/4"	1/2"	3-1/16"	1/2"	7/8"
85433M*	2-1/2"	1-1/4"	1/2"	3-3/16"	1/2"	1"

* Control cut bit.

Carbide Tipped Roman Ogee Bits

Micrograin control cut bits used for decorative edging and period furniture.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Radius
85270M	1"	5/8"	1/4"	2-1/8"	1/2"	5/32"
85591M	1"	5/8"	1/2"	2-1/2"	1/2"	5/32"
85271M	1-3/8"	7/8"	1/4"	2-1/4"	1/2"	1/4"
85592M	1-3/8"	7/8"	1/2"	2-5/8"	1/2"	1/4"

Router Bits

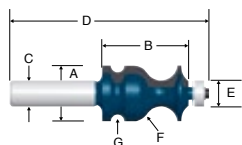
Edge Forming/Trimming/Cutout

Edge Forming Bits

Carbide Tipped Ogee & Bead Bit with Fillet

Classical architectural molding micrograin bit for making furniture and cabinet molding, door and window casing and other millwork.

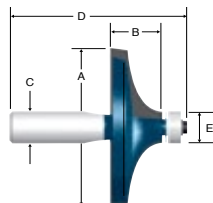
- Recommended for use with a router table



Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Length	E. Bearing Dia.	F. Large Radius	G. Small Radius
84621M	1"	1-11/16"	1/2"	3-1/4"	1/2"	3/8"	1/8"

Carbide Tipped Table Edge Bit

Creates a wide profile for attractive edging and curve for tables or handrails.

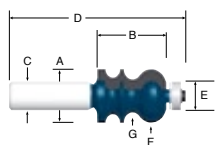


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
84515M	2-3/4"	5/8"	1/2"	2-1/2"	1/2"

Carbide Tipped Reverse Curve Ogee & Bead Bit

Classical architectural molding micrograin bit for making furniture and cabinet molding, door and window casing and other millwork.

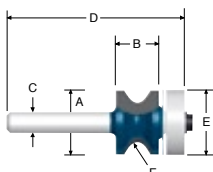
- Recommended for use with a router table



Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Length	E. Bearing Dia.	F. Large Radius	G. Small Radius
84620M	7/8"	1-3/8"	1/2"	3-3/8"	1/2"	5/16"	5/32"

Carbide Tipped Chair Mat Bit

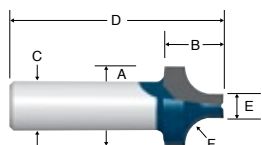
Micrograin control cut bit to cut out and edge form chair mats and other items fabricated from softer plastic such as vinyl and acrylic in a single operation. Bit is designed to help minimize edge cracking in such materials and is also suitable for use with 1/4" and thinner wood and plywood.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Radius
85612M	47/64"	17/32"	1/4"	2-7/32"	47/62"	3/32"

Carbide Tipped Plunge Roundover Bits

Micrograin control cut bits for special decorative grooving and edging.

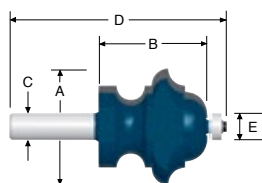


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Small Diameter	F. Radius
85471M	3/4"	1/2"	1/2"	2"	1/4"	1/4"

Carbide Tipped Multi-form Bit

Micrograin bit achieves many profiles and architectural designs. With a simple adjustment to the cutter height and fence position, 50 molding patterns are available.

- Recommended for use with a router table



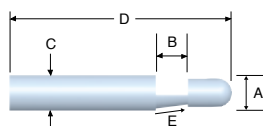
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
85700M	2-1/4"	1-7/8"	1/2"	2-3/4"	1/2"

Trimming/Cutout Bits



Solid Carbide Bevel Trimmer Bit

Provides a 7-1/2° bevel on the trim edge of plastic laminate surfaces. The self-pilot eliminates guide assembly.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Angle	Quantity
85286	1/4"	1/4"	1/4"	1-1/2"	7-1/2°	1
85286B100	1/4"	1/4"	1/4"	1-1/2"	7-1/2°	100

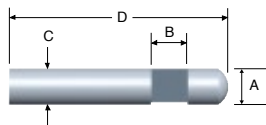

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For more details visit
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Trimming/Cutout Bits

Solid Carbide Flush Trimmer Bit

Self-piloting bit makes flush, trim and edge cuts.

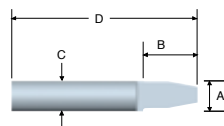
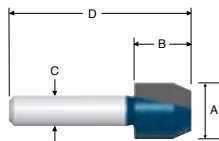


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	Quantity
85285	1/4"	1/4"	1/4"	1-1/2"	1
85285B100	1/4"	1/4"	1/4"	1-1/2"	100

Combination Flush & Bevel Trimmer Bits

Micrograin bits combine bevel or flush trim cuts in a single bit. Use with router guide assembly.

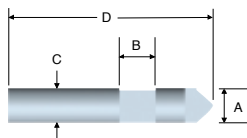
- 85288 is a solid carbide bit
- 85261M is a carbide tipped bit



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	Type of Cut
85261M	1/2"	1/2"	1/4"	1-3/4"	Flush or 22° bevel
85288	1/4"	3/8"	1/4"	1-1/2"	Flush or 10° bevel

Solid Carbide Hole & Flush Cut Trimmer Bit

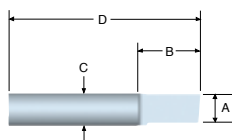
Bit drills through surface lamination into precut openings and trims edges flush in one operation.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85287	1/4"	1/4"	1/4"	1-1/2"

Solid Carbide Rip Bit & Slotter

Used for slotting or ripping sheets of laminates, woods and paneling.

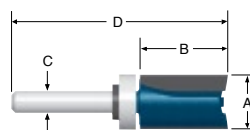


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85280	1/4"	5/16"	1/4"	1-1/2"

Carbide Tipped Top Bearing Mounted Straight/Trim Bits

Micrograin bits with top mounted ball bearing ride against templet for pattern routing.

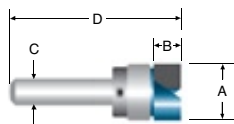
- Replacement collar 3 600 231 500
- Replacement set screw 3 603 401 506



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85680M	1/2"	1"	1/4"	2-1/2"
85672M	1/2"	1-1/4"	1/4"	2-3/4"
85681M	5/8"	1"	1/4"	2-3/4"
85682M	3/4"	1"	1/4"	2-1/2"
85671M	1-1/8"	1-1/2"	1/2"	3-1/2"

Carbide Tipped Top Bearing Mounted Dado Clean Out Bit

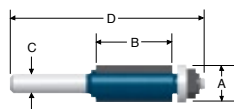
Short 1/4" cutting edge for dado clean out



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85674M	1/2"	1/4"	1/4"	1-5/8"

Carbide Tipped Double Flute Laminate Flush Trimming Bits

Micrograin bits ideal for fast, smooth, accurate trim cuts with a shielded, compact ball bearing pilot.



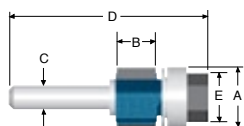
Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	Type of Cut
84501M	1/4"	1"	1/4"	2-1/2"	Flush
85269M	3/8"	1/2"	1/4"	2-1/8"	Flush
85268M	3/8"	1"	1/4"	2-5/8"	Flush
85437M	1/2"	3/8"	1/4"	2-5/64"	Flush or 22° bevel
85267M	1/2"	1/2"	1/4"	2-1/4"	Flush
85441M	1/2"	1"	1/2"	3-1/4"	Flush
85440M	1/2"	5/16"	1/4"	2"	Flush or 15° bevel
85438M	1/2"	5/16"	1/4"	2"	Flush or 25° bevel
85424M	1/2"	3/8"	1/4"	1-3/4"	22° bevel
85442M	1/2"	2"	1/2"	4-27/64"	Flush
85266M	1/2"	1"	1/4"	2-5/8"	Flush
84500M	3/4"	9/16"	1/2"	2-3/8"	Flush

Trimming/Cutout Bits

Carbide Tipped Double Flute Laminate Trimmer Assemblies

Micrograin bits ideal for fast, accurate trim cuts.

- Shank replacement arbor 82808

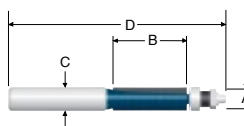


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	Angle
85431M	5/8"	3/8"	1/4"	1-15/16"	5/8"	10°
85430M	5/8"	3/8"	1/4"	1-15/16"	5/8"	Flush

Carbide Tipped Double Flute Templet/Trimming Bit

Micrograin bit provides smooth cuts for laminate trimming, cutouts and pattern cutting. Comes with two ball bearings. Use two ball bearings to widen the bearing surface and reduce templet ware

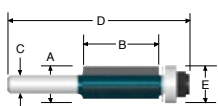
- Extra ball bearing 2 610 906 500



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length
85601M	1/2"	1-1/2"	1/2"	4-3/8"

Carbide Tipped Triple Flute Laminate Flush Trimming Bit

Micrograin bit provides chatter-free production trimming with an extra smooth, flush trim cut. Compact ball-bearing assembly is equipped with a glue shield.

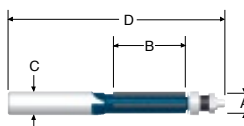


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
85216M	1/2"	1"	1/4"	2-5/8"	1/2"
85439M	1/2"	1"	1/2"	3-1/4"	1/2"

Carbide Tipped Triple Flute Trimming Bit

Micrograin bit for laminate trimming and trim cuts on heavier work when cutting with a templet. Can be used with 2 ball bearings to widen the bearing surface and reduce templet wear.

- Extra ball bearing 2 610 906 500

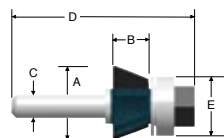


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85602M	1/2"	1-1/2"	1/2"	4-1/2"

Carbide Tipped Triple Flute Flush & Bevel Laminate Trimmer Assemblies

Micrograin bits for extra smooth production trimming. Assembly includes an arbor, replaceable 3-wing cutter and ball bearing.

- Replacement arbor 82808

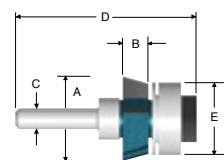


Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Length	E. Bearing Dia.	Angle	Fits
85421M	5/8"	3/8"	1/4"	1-15/16"	5/8"	Flush	—
85422M	3/4"	3/8"	1/4"	1-15/16"	5/8"	9°	—
85420M	7/8"	3/8"	1/4"	1-15/16"	5/8"	22°	—
85423M	1"	1/4"	1/4"	1-15/16"	5/8"	45°	—
85509M*	5/8"	3/8"	1/4"	-	-	Flush	85421M
85516M*	3/4"	3/8"	1/4"	-	-	9°	85422M
85511M*	7/8"	3/8"	1/4"	-	-	22°	85420M
85512M*	1"	1/4"	1/4"	-	-	45°	85423M

* Replacement cutters

Carbide Tipped Four Flute Laminate Trimmer Assemblies

Micrograin bits for ultra-smooth finish trimming. Ball bearing is equipped with a glue shield and individual assembly components are replaceable.



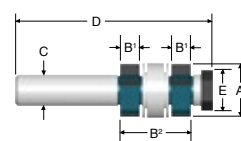
Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	Angle
85414M	7/8"	5/16"	1/4"	2-1/8"	7/8"	Flush
85415M	7/8"	5/16"	1/4"	2-1/8"	7/8"	15°
85417M*	7/8"	5/16"	5/16"	—	—	Flush

* Replacement cutters

Carbide Tipped Four Flute Double Flush Trimmer Assembly

Micrograin bit for flush trimming laminates on both sides of a piece in a single pass. Provided spacers adjust distance between cutters to allow width of cut from 1/2" to 1-1/2". 4-flute design provides ultra-smooth finish.

- Spacers 3 600 200 503



Item #	A. Overall Dia.	B1. Cutting Edge Lgth.	B2. Overall Cutting Lgth.	C. Shank Dia.	D. Overall Lgth.	E. Bearing Dia.
85416M	7/8"	5/16"	Adjustable 1/2" to 1-1/2"	1/2"	3-9/32"	7/8"
85417M*	7/8"	5/16"	N/A	5/16"	N/A	N/A

* Replacement cutters



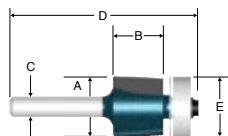
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Trimming/Cutout Bits

Carbide Tipped Helical Laminate Trimming Bits

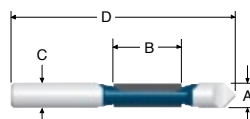
Provide extra smooth production trimming.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	Angle
85452M	3/4"	5/8"	1/4"	2-1/4"	3/4"	Flush

Pilot Panel Bits with Drill-through Point-Two Flutes

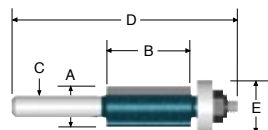
Two flutes give smooth cuts and even feed rates without chatter.



Item #	A. Cut Diameter	B. Flute Length	C. Shank Diameter	D. Overall Length
85428M	3/8"	1"	3/8"	3
85429M	1/2"	1-3/16"	1/2"	3-1/2

Carbide Tipped Overhang Cutoff Bits

Micrograin bits for rough sizing of plastic laminates, prior to gluing, without scribing or sawing. Bit leaves a slight overhang and is ideal for tops with irregular shapes.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	Overhang
85217M*	11/32"	1/2"	1/4"	2-19/64"	3/4"	3/16"
85210M**	1/2"	1"	1/4"	2-11/16"	5/8"	1/16"

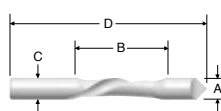
* Single flute.

** Double flute.

Pilot Panel Down Spiral

High speed steel bit for cutting aluminum sheets, wall panels, plywood, chip boards, insulation sheeting and other synthetic boards.

- Pushes chips down while cutting to eliminate chip build-up and clogging
- Eliminates chipping and upward tearing of material
- Eliminates vibration and extends bit life

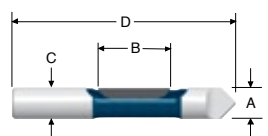


Item #	A. Cut Diameter	B. Flute Length	C. Shank Diameter	D. Overall Length
85183	1/4"	5/8"	1/4"	2-3/4"
85184	3/8"	3/4"	3/8"	3-1/8"
85185	1/2"	2-1/8"	1/2"	4-1/2"
85187	1/2"	1-1/4"	1/2"	3-13/16"

Pilot Panel Bits with Drill-through Point-Single Flute

For windows and door cutouts in abrasive insulation materials, plywood and paneling.

- Drill-through pilot for guiding on templet or framing after panel has been mounted
- The concave grind offers a faster cut over the straight grind pilot panel bits

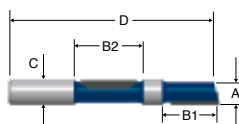


Item #	A. Cut Diameter	B. Flute Length	C. Shank Diameter	D. Overall Length
Carbide Tipped - Straight Fluted				
85244	1/4"	3/4"	1/4"	2-9/16"
85245	3/8"	1"	3/8"	3"
85246	1/2"	1-3/16"	1/2"	3-1/2"
85407M	1/2"	2"	1/2"	4-3/4"
Carbide Tipped - Concave Fluted				
85244M	1/4"	3/4"	1/4"	2-1/2"
85245M	3/8"	1"	3/8"	3"
85246M	1/2"	1-3/16"	1/2"	3-5/8"
High Speed Steel				
85146	1/4"	3/4"	1/4"	2-5/8"
85147	3/8"	7/8"	3/8"	3"
85188	1/2"	1-1/8"	1/2"	3-5/8"

Staggertooth with Center Pilot

Used for production cutting in aluminum and plywood sandwich panels and other layered materials such as windows, doors, and other openings.

- Center pilot guides the carbide tipped cutters along inner frame, typically found in manufactured housing applications

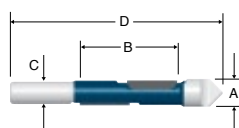


Item #	A. Overall Diameter	B1. Cutting Edge Lgth.	B2. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length
85406M	1/2"	2-13/16"	1-1/8"	1/2"	4-1/4"
85406MB50	1/2"	2-13/16"	1-1/8"	1/2"	4-1/4"

* Bulk Item

Staggertooth Pilot Panel Bit

Staggered flutes give excellent chip clearance and high feed rates. Used for production cutting of window, door and other openings in abrasive materials.



Item #	A. Cut Diameter	B. Flute Length	C. Shank Diameter	D. Overall Length
85408M	5/8"	2-1/4"	1/2"	4-3/4"

Router Bits

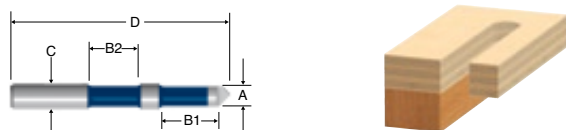
Trimming/Cutout/Surface Forming

Trimming/Cutout Bits

Staggertooth Pilot Panel with Center Pilot

Used for production cutting in aluminum and plywood sandwich panels and other layered materials such as windows, doors, and other openings.

- Center pilot guides the carbide tipped cutters along inner frame, typically found in manufactured housing applications



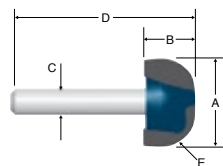
Item #	A. Overall Diameter	B1. Cutting Edge Lgth.	B2. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length
85405M	1/2"	1"	1"	1/2"	4-1/2"
85405MB50	1/2"	1"	1"	1/2"	4-1/2"

* Bulk Item

Surface Forming Bits

Carbide Tipped Dish Carving Bits

Micrograin bits used for removing large amounts of wood as in making trays, coasters, raised letter signs, etc.



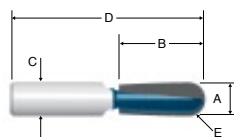
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Radius
84310M	1-1/8"	5/8"	1/2"	2-5/8"	1/4"

Surface Forming Bits



Carbide Tipped Core Box Bits – Two Flutes

Deeper cut round nose bits for cutting rounded grooves used in a variety of applications including doors and columns.

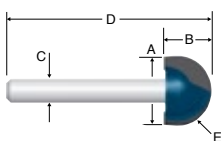


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Radius
85449M	1/2"	1-1/4"	1/2"	2-3/4"	1/4"
85456M	5/8"	1-1/4"	1/2"	2-3/4"	5/16"
85450M	3/4"	1-1/4"	1/2"	2-3/4"	3/8"
85451M*	1"	1-1/4"	1/2"	2-3/4"	1/2"

* Control cut bit

Carbide Tipped Core Box Bits

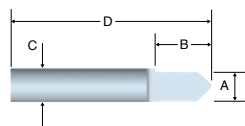
Micrograin bits for cutting rounded grooves used in a variety of applications including doors and columns.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Radius
85444M	1/4"	1/4"	1/4"	1-5/8"	1/8"
85445M	3/8"	1/4"	1/4"	1-1/2"	3/16"
85446M	1/2"	3/8"	1/4"	1-1/2"	1/4"
85447M	5/8"	7/16"	1/4"	1-1/4"	5/16"
85448M	3/4"	7/16"	1/4"	2-1/32"	3/8"

Solid Carbide V-groove & Scoring Bit

Excellent for door-front grooving and scoring panel design in wood. Produces simulated paneling for walls, doors and furniture.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Bevel
85284M	1/4"	3/4"	1/4"	1-1/2"	41°



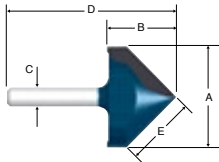
BOSCH

For more details visit
Boschtools.com

Surface Forming Bits

Carbide Tipped V-groove & Scoring Bits

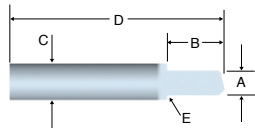
Micrograin bits ideal for door-front grooving, lettering and sign work. Features shear angle cutter geometry for smooth, efficient cutting.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Bevel
84300M	3/8"	7/16"	1/4"	1-5/8"	1/4" (45°)
84303M	5/8"	1/2"	1/2"	2"	5/16" (45°)
84306M	3/4"	5/8"	1/2"	2-1/8"	3/8" (45°)
85219M	9/16"	3/4"	1/4"	1-3/4"	3/8" (45°)
84309M	1"	5/8"	1/2"	2-1/4"	1/2" (45°)
85220M	1-1/4"	3/4"	1/4"	2-1/2"	5/8" (45°)

Solid Carbide Veining Bits

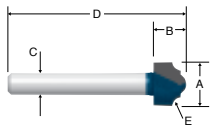
Provincial design veining bits are intended for recessed design veining in fine cabinet surfaces and used extensively for door front grooving.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Radius
85281M	1/8"	5/32"	1/4"	1-1/2"	1/16"
85282M	3/16"	25/64"	1/4"	1-1/2"	3/32"

Carbide Tipped Classical Bits

Micrograin bits are used for beautiful, decorative grooving, adding a quality accent to any project. Also recommended for edge forming with a router guide.



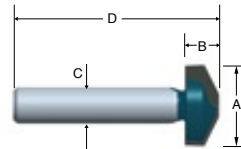
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Radius
85467M	1/2"	7/16"	1/4"	2"	3/32"
85468M	3/4"	1/2"	1/4"	2-1/16"	9/64"

Cabinetry/Joinery Bits



Carbide Tipped Raised Panel Bit

Use a raised panel bit for cutting wide, shallow grooves in one pass for a raised panel effect.

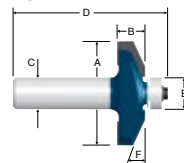


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85480M	1-1/8"	1/2"	1/2"	2-3/4"

Carbide Tipped Raised Panel Bit with Bearing

Micrograin control cut bit used to create clean, simple lines to accentuate a surface.

- Recommended for use with a router table. Minimum recommended panel thickness is 3/4"

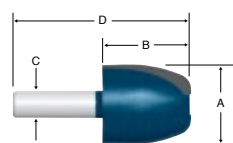


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Angle
85583M	1-5/8"	1/2"	1/2"	2-3/8"	1/2"	25°

Carbide Tipped Cove Vertical Panel Raiser Bit

Micrograin bit with a long, swooping radius (1/4" - 2-1/2") for creating beautiful panels.

- Recommended for use with a router table. Minimum recommended panel thickness is 3/4"



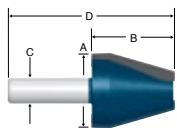
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85708M	1-1/8"	1-5/8"	1/2"	3-1/8"

Cabinetry/Joinery Bits

Carbide Tipped Bevel Vertical Panel Raiser Bit

Micrograin control cut bit for creating raised panel doors and drawer faces.

- Recommended for use with a router table. Minimum recommended panel thickness is 3/4"

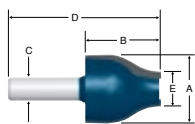


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
84520M	1-1/8"	1-5/8"	1/2"	3-1/8"

Carbide Tipped Ogee Vertical Panel Raiser Bit

Micrograin bit used to create beautiful shadow lines for cabinet doors.

- Recommended for use with a router table. Minimum recommended panel thickness is 3/4"

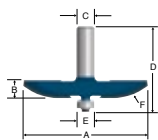


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Small Diameter
85712M	1-3/16"	1-5/8"	1/2"	3-1/8"	7/16"

Carbide Tipped Cove Raised Panel Cutter

Micrograin control cut bit used to create clean, simple lines to accentuate a surface.

- Recommended for use with a router table. Minimum recommended panel thickness is 3/4"

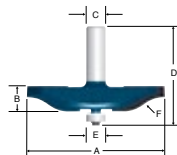


Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Lgth.	E. Bearing Dia.	F. Radius	Cutting Width
85641M	3-3/8"	1/2"	1/2"	2-7/8"	1/2"	1-9/16"	1-7/16"

Carbide Tipped Ogee Raised Panel Cutters

Micrograin bits produce raised panel cuts along straight and curved panel edges.

- These bits are not for use in hand-held routers. Use with a router table only. Minimum recommended panel thickness is 3/4"

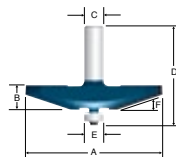


Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Lgth.	E. Bearing Dia.	F. Radius	Cutting Width
85638M	2-5/8"	5/8"	1/2"	2-1/2"	1/2"	3/4"	1-1/16"
85640M	3-3/8"	9/16"	1/2"	2-1/2"	1/2"	7/8"	1-7/16"

Carbide Tipped Raised Panel Cutters

Micrograin bits produce raised panel cuts along straight and curved panel edges.

- These bits are not for use in hand-held routers. Use with a router table only. Minimum recommended panel thickness is 3/4"

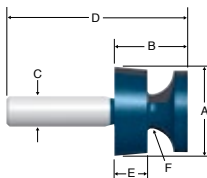


Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Length	E. Bearing Dia.	F. Angle	Cutting Width
85637M	2-3/4"	5/8"	1/2"	2-17/32"	1/2"	26°	1-1/8"
85639M	3-3/8"	1/2"	1/2"	2-3/8"	1/2"	15°	1-7/16"

Carbide Tipped Doorlip Bit

Micrograin bit achieves a popular shaper-quality doorlip cut with a router.

- Recommended for use with a router table

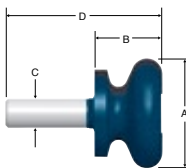


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Radius
85603M	1-9/16"	1"	1/2"	3"	3/8"

Carbide Tipped Finger Pull Bit

Micrograin control cut bit creates easy open door or drawer edges that eliminate metal pulls and enhance the hardwood effect.

- Recommended for use with a router table



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
84540M	1-3/4"	13/16"	1/2"	2-5/16"

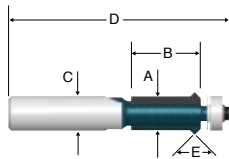

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Cabinetry/Joinery Bits

Carbide Tipped Face Frame/Flush Trim, V-groove Bits

Micrograin bits used to flush face frame to cabinet side while at the same time cutting a V-groove down cabinet joint. Also used for creating a decorative V-groove cut.

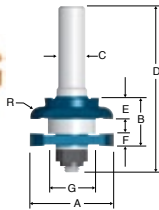
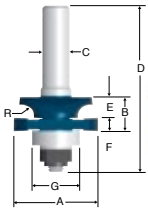


Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Angle	Bearing Diameter
85646M	5/8"	1"	1/4"	2-1/2"	90°	1/2"
85647M	5/8"	1"	1/2"	3	90°	1/2"

Carbide Tipped Beading Stile & Rail Bits

Micrograin bits with shear angle geometry, super-sharp cutting edges and close-tolerance manufacturing to ensure consistently smooth, tight-fitting joints.

- Recommended for use with a router table. Designed for 3/4" wood with a maximum wood thickness of 7/8"
- 85621M is a control cut bit

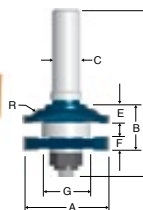
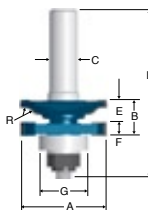


Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Length	E. Decorative Cut Depth	F. Kerf	G. Bearing Diameter	R. Radius
85621M	1-5/8"	5/8"	1/2"	3"	5/8"	1/4"	7/8"(22 mm)	7/32"
85622M	1-5/8"	57/64"	1/2"	3"	1-5/8"	1/4"	7/8"(22 mm)	1/2"
85620M	Beading stile and rail set includes 85621M and 85622M assemblies							

Carbide Tipped Ogee Stile & Rail Bits

Micrograin bits with shear angle geometry, super-sharp cutting edges and close-tolerance manufacturing to ensure consistently smooth, tight-fitting joints.

- These bits are not for use in hand-held routers. Use with a router table only. Designed for 3/4" wood with a maximum wood thickness of 7/8"
- Both 85626M and 85627M assemblies are reversible. Either can be used to make both stile and rail cuts by order on the arbor. This requires one workpiece to be cut "face up" and the other workpiece "face-down"

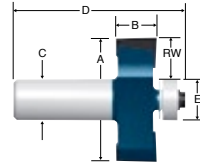


Item #	A. Overall Dia.	B. Cutting Edge Lgth.	C. Shank Dia.	D. Overall Length	E. Decorative Cut Depth	F. Kerf	G. Bearing Diameter	R. Radius
85626M	1-5/8"	43/64"	1/2"	3"	13/32"	3"	7/8"(22 mm)	1/2"
85627M	1-5/8"	51/64"	1/2"	3"	17/64"	3"	7/8"(22 mm)	1/2"
85625M	Ogee stile and rail set includes 85626M and 85627M assemblies							

Carbide Tipped Rabbeting Bits

Micrograin control cut bits for making rabbeting cuts without the use of a router guide.

- To increase the width of rabbet by 1/16" for 85218M and 85590M, purchase 3/8" diameter bearing 3 600 900 501 and dust shield 3 600 120 507

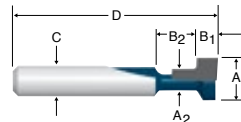


Item #	RW Rabbet Width	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter
85218M	3/8"	1-1/4"	1/2"	1/4"	2"	1/2"
85590M	3/8"	1-1/4"	1/2"	1/2"	2-3/8"	1/2"
85614M	1/2"	1-3/8"	1/2"	1/4"	2"	1/2"
85615M	1/2"	1-3/8"	1/2"	1/2"	2-3/8"	1/2"

Carbide Tipped Keyhole Bits

For plunge and slots cuts. Route mounting slots in picture frames and plaques.

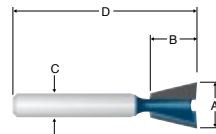
- 85608M is a carbide tipped bit
- 85078 is a high speed steel bit



Item #	A1. Large Diameter	A2. Small Diameter	B. Cutting Edge	C. Shank Diameter	D. Overall Length
85078	3/8"	3/16"	3/16"	1/4"	1-7/8"
85608M	3/8"	3/16"	3/8"	1/4"	1-1/2"

Carbide Tipped Dovetail Bits

Micrograin bits for making dovetail joints.



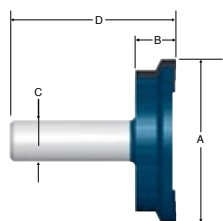
Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Degree
84706M	3/8"	3/8"	1/2"	2"	9
84702M	3/8"	3/8"	3/8"	2"	9
84703M	1/2"	1/2"	1/4"	2"	14
84709M	1/2"	17/32"	1/2"	2-1/2"	14
85240M	17/32"	1/2"	1/4"	1-7/8"	15
84710M	3/4"	3/4"	1/2"	3"	14
84705M	1"	1"	1/2"	2-3/4"	14

Cabinetry/Joinery Bits

Carbide Tipped Drawer Lock Joint Bit

Micrograin control cut bit for constructing durable drawer joints.

- Recommended for use with a router table

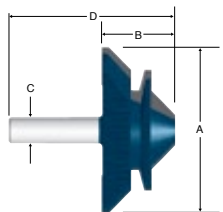


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
84512M	1"	1/2"	1/2"	1-5/16"

Carbide Tipped Lock Miter Bit

Micrograin control cut bit for making right angle joints and glue joints.

- Recommended for use with a router table

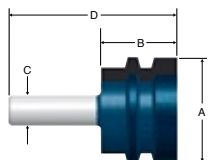


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
84508M	2-11/16"	1-3/16"	1/2"	2-5/8"

Carbide Tipped Reversible Glue Joint Bit

Micrograin control cut bit used for making glue-ups and strong joints in door panels, tabletops and more.

- Recommended for use with a router table

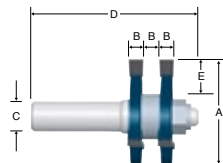


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
84505M	1-7/8"	1-3/32"	1/2"	2-5/8"

Carbide Tipped Tongue & Groove Bits

Micrograin bits designed to cut tongue and grooves on 1/2" through 3/4" thick material. To cut the tongue, use the complete assembly; to cut the groove, remove one slotting cutter.

- Recommended for use with a router table
- For 1/4" replacement arbor assembly use 84626
- 84623M replacement cutter is 85610M; arbor is 84626
- 84624M replacement cutter is 85610M

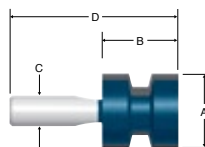


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Decorative Cut Depth
84623M	1-7/8"	1/4"	1/4"	2-1/2"	1/2"
84624M	1-7/8"	1/4"	1/2"	2-1/2"	1/2"

Carbide Tipped Wedge Tongue Bit

Micrograin control cut bit for making tongue style wedge cuts.

- Recommended for use with a router table

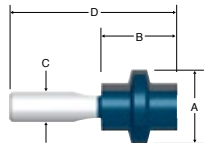


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
84509M	1-1/4"	1-1/4"	1/2"	2-3/4"

Carbide Tipped Wedge Groove Bit

Micrograin control cut bit for making groove style wedge cuts.

- Recommended for use with a router table



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
84510M	1-1/4"	1-1/4"	1/2"	2-3/4"

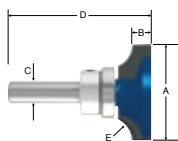


Solid Surface Bits



Carbide Tipped Under Round Bits

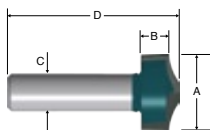
Micrograin bits used for cutting bottom-half of bullnose on 1" or 1-1/2" material without turning the material over.



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	Cutting Radius
85692M	2-1/8"	3/4"	1/2"	2-7/8"	1/2"
85693M	2-5/8"	1"	1/2"	3"	3/4"

Carbide Tipped No-Drip Bit

Micrograin bit used to cut a no-drip edge where countertop and face material meet.

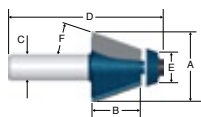


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85694M	1"	1/2"	1/2"	2-1/8"

Carbide Tipped Bevel Bowl Bit

Micrograin bit for use when fabricating solid undermount bowls.

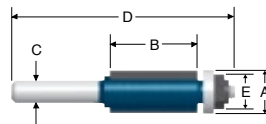
- Replacement ball bearing 3 600 200 514



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	D. Overall Length	E. Bearing Diameter	F. Cutting Width
85659M	1-1/4"	15/16"	1/2"	3"	3/4"	10°

Bowl & Sink Trim Bits

For sink cutouts. 85702M creates rough cut-out with 1/16" margin. 85701M creates flush finished cut.

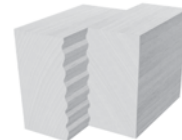
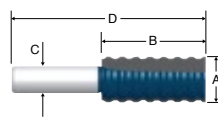


Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length	E. Small Diameter
85701M	3/4"	1"	1/2"	3-1/2"	0° - Flush Trim
85702M	3/4"	1"	1/2"	3-1/4"	10° - 1/16" Overhang

Carbide Tipped A-line Edge Aligning Bit

Micrograin bit designed to precisely join all solid surfacing materials, hardwoods and other dense materials. Mating edges are aligned at the precise level without changing the router bit or router base. Unique trapezoidal design increases surface area for a stronger glue joint.

- Requires A-line sub-base 3 601 039 504



Item #	A. Overall Diameter	B. Cutting Edge Length	C. Shank Diameter	D. Overall Length
85649M	7/8"	1-7/8"	1/2"	2-33/64"



Router Bits

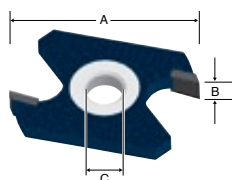
Slotting/Arbor/Cutters

Slotting/Arbor Cutters



2-wing Slotting Cutters

Micrograin control cut bits used for making slots for T-molding and weather stripping.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	Depth of Cut
85505M	1-3/16"	1/4"	1/4"	9/32"

Arbors for Slotting Cutters

For use with 2-wing and 3-wing slotting cutters.



82811



82808 92813

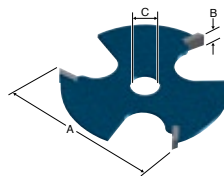


82810

Item #	Arbor Dia.	Bearing Dia.	Length	Shank Dia.	For Use With	Used on Part No.
82811	5/16"	7/8"	3"	1/2"	3-wing slotting cutters	85520M, 85609M, 85610M
92813	5/16"	N/A	1-23/32"	1/4"	3-wing slotting cutters	85526M, 85527M, 85528M, 85529M, 92837
82808	1/4"	5/8"	1-29/32"	1/4"	2-wing slotting cutters	85505M, 85506M, 85507M, 85508M
82810	5/16"	7/8"	2-5/8"	1/4"	2-wing slotting cutters	85517M, 85520M, 92837

3-wing Slotting Cutters

Micrograin bits used for making slots for T-molding and weather stripping.



Item #	A. Overall Diameter	B. Cutting Edge Lgth.	C. Shank Diameter	Depth of Cut
85526M	1-7/8"	1/16"	5/16" (bore)	1/2"
85527M	1-7/8"	5/64"	5/16" (bore)	1/2"
85528M	1-7/8"	3/32"	5/16" (bore)	1/2"
85529M	1-7/8"	1/8"	5/16" (bore)	1/2"
85530M*	1-7/8"	5/32"	5/16" (bore)	1/2"
85609M	1-7/8"	3/16"	5/16" (bore)	1/2"
85610M	1-7/8"	1/4"	5/16" (bore)	1/2"

*85530M is used for biscuit joint cutting.

Router Bit Components



Bearing Enlargers

Use Bosch bearing enlargers for changing profiles, widths and rabbeting depths of ball bearing-piloted router bits with 3/16" O.D. pilots.



Item #	Inside Diameter	Outside Diameter
BE006	3/16"	3/4"
BE007	3/16"	7/8"
BE008	3/16"	1"
BE009	3/16"	1-1/8"
BE400	One each of BE006, BE007, BE008 and BE009	

Non-marring Bearings

Non-marring high precision bearings are specially engineered and fitted with sleeves to prevent scratching on all surfaces. Use with piloted router bits including laminate trim and edge forming bits.



Item #	Inside Diameter	Outside Diameter
NMB004	3/16"	1/2"
NMB005	1/4"	5/8"
NMB006	1/4"	3/4"
NMB300	One each of NMB004, NMB005 and NMB006	


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