

Saw Blade Se

The following chart is a guide for selecting the proper Timberline™

Timberline™ Blades			
Part No.	Blade Dia.	Page No.	Machine types
120-300	4-3/8"/4-1/2"	5, 9	Circular Saws, Worm Drives, Trim Saws Jepson®, 8211 Makita®, 4100RH Makita®, 4200NH Panasonic®, EY3502FQMKW-12Volt Porter-Cable®, 314, 9314
135-300	5-3/8"/5-1/2"	5, 9	Circular Saws, Worm Drives, Trim Saws Black&Decker®, CS144-14.4Volt DeWalt®, DW930K-12Volt DeWalt®, DW935K-14Volt DeWalt®, DW936K/936-18Volt Grizzly®, G8598-18Volt Makita®, 5005BA Panasonic®, EY3503FQWKW-12Volt Panasonic®, EY3531FQWKW-15.6Volt Ryobi®, R10730K2-18Volt Skil®, HD5510
150-200 150-400	6"	5	Circular Saws, Worm Drives, Trim Saws Porter Cable®, 345 SAW BOSS® Porter Cable®, 9845 SAW BOSS® -19.2Volt
165-240 165-400	6-1/2"	5, 9	Circular Saws, Worm Drives, Trim Saws DeWalt®, DW007K-24Volt, DW939K-18Volt Hitachi®, C6DC-18Volt Makita®, 5620DWA-18Volt, 5621DWD-18Volt, 5026DWD-18Volt, 5630DWA-14.4Volt Milwaukee®, 6310-20-18Volt, 6310-22-18Volt Skil®, HD5825, HD5525, 5125 Talon®, TJ759000-18Volt
175-24, 175-40, 175-60 185-180, 185-240, 185-36 185-140, 185-505, 190-240	7-1/4"	4, 6, 7, 9 11, 13	Circular Saws, Worm Drives, Cordless Saws Black&Decker®, 2683, 2684, 2694, 2700, 2701 Bosch®, 1655, 1657, 1658, 1655K, 1658K DeWalt®, DW359/359K, DW362/362K, DW369CSK, DW364, DW378G, DW368K Grizzly®, G9906 Hitachi®, C7BD, C7S Jepson®, 8207, 8218 Makita®, 5007NB/K, 5037NB/K/A, 5057KB, 5007NHK/NLK, 5007FK/FAK, 5740NB, 5177B, 5277B BLS712SFK-24Volt, BSS730SHK-24Volt, LS0711Z Milwaukee®, 6368, 6365-6, 6366-6, 6375-20, 6375-21, 6376-20, 6390-20, 6390-21, 6377-6, 6369-6, 6394-21, 6391-21 Porter-Cable®, 315-1, 347K, 447K, 743K, 843K Ryobi®, CSB120, CSB130, W660 Skil®, HD5575, HD77, HD77-72, HD77M, HD5658, HD5657, 5375, 5275-05, 5175, 5150
72524, 72540			
200-401 80032 80040 80060	8"	8, 13	Portable Table Saws, Contractor Table Saws, Compound Miter Saws, Sliding Compound Miter Saws, Radial Arm Saws, Panel Saws Delta®, 33-055 Delux Sawbuck® Milwaukee®, 6480
215-240 215-400	8-1/4"	7, 13	Circular Saws, Worm Drives, Trim Saws, Cordless Saws, Portable Table Saws, Compound Miter Saws Black&Decker®, 2685, 2695, 2710

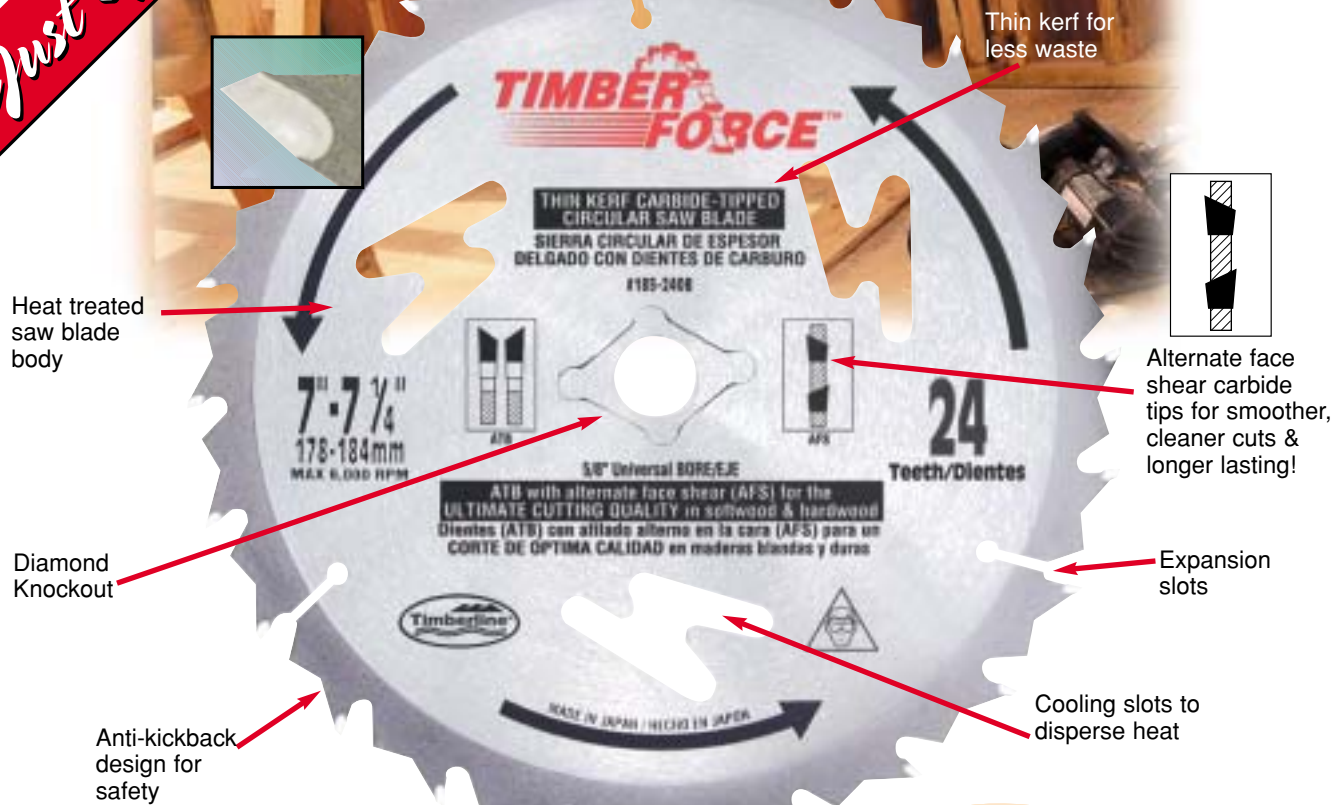
Selection Chart

blade for many of the popular saws out there in today's market.

Timberline™ Blades

Part No.	Blade Dia.	Page No.	Machine types
215-240 215-400	8-1/4"	7, 13	Bosch®, 1656 Delta®, 36-040, 36-275 DeWalt®, DW384 Hitachi®, C8 Jepson®, 8408 Makita®, 5008NB, 2702/X1, 2708W Milwaukee®, 6378, 6405-6, 6460 Pro-Tech®, 7203 Skil®, HD5660, HD5860
235-400 235-600 240-600	8-1/2"	7	Sliding Compound Miter Saws Freud®, TR215 Hitachi®, C8FB2 Makita®, BLS820SFK-24Volt Ryobi®, TSS200
250-400 250-600, 250-601 250-800, 250-801 10-240, 10-240-30 10-400, 10-400-30 10-500 10-600, 10-600-30 10-601, 10-601-30 10-800, 10-800-30 10-801, 10-801-30 10-805, 10-805-30	10"	8, 10, 11, 13	Portable Table Saws, Contractor Table Saws, Miter Saws, Compound Miter Saws, Radial Arm Saws, Sliding Compound Miter Saws, Dual Sliding Compound Miter Saws Bosch®, 3915 Delta®, 36-540, 36-444, 36-445, 36-490, 36-070, 36-075, 36-220, 36-225, 36-240, 36-250, 36-440, 36-480, 36-540, 36-090, 36-630, 36-600, 36-210 DeWalt®, DW744S, DW746, DW703 Grizzly®, G5045, G1022, G1022Z, G1022ZFX, G1022SM, G1023S/SL Hitachi®, C10RA2, C10FC2, C10FS, C10FCD Jepson®, 9213, 9211MB, 9410 Jet®, JTS-10DD, JWTS-100JF, JWTS-10CW2-PFX, JWTS-10PF, JWTS-10PFX Makita®, 2711, 2703/X1, LS1030N, LS1040, LS1045, LS1011, LS1013, 5201NA Milwaukee®, 6490-6, 6496-6, 6497-6, 6494-6 Porter Cable®, 3307, 3812 Pro-Tech®, 7107, 7207, 7208 Pro-Tech Power®, 4106 Ryobi®, BT3000, TS254, TS230 Skil®, 3300, 3400, 3400-08
300-400 300-600, 300-601 300-100, 300-101 12-240, 12-240-30 12-400, 12-400-30 12-961, 12-961-30 12-965, 12-965-30	12"	8, 9, 10 11, 13	Miter Saws, Radial Arm Saws, Compound Miter Saws, Sliding Compound Miter Saws, Table Saws, Dual Sliding Compound Miter Saws Black&Decker®, 3680, 3660 Bosch®, 3912 Delta®, 36-235, 33-890, 33-990 DeWalt®, DW704, DW705S, DW708, DW706 Grizzly®, G5959 Makita®, LS1220, LS1211, LS1212 Porter Cable®, 3802 Pro-Tech®, CS72121 Skil®, HD3812
14-280, 14-280-30 14-400, 14-400-30 14-540, 14-540-30	14"	9, 10	Circular Saws, Miter Saws, Table Saws, Radial Arm Saws Delta®, RT-40, 33-400 Grizzly®, G7209, G7210 Mafell North America®, MKS 125 Makita®, LS1440

*The Best
Just Got Better*



Try a TimberForce™ blade today! You'll notice the difference!

TIMBERFORCE™

New, improved TimberForce™ blades, with their revolutionary grinding technology, produce cleaner, faster cuts; and, they **cost less** than other premium contractor blades! TimberForce™ is a general purpose blade with anti-kickback safety design, cooling and expansion slots to prevent heat buildup. The “do-all” blade for a contractor. It all adds up to improved speed and performance for you.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
185-240	Carded	7-1/4"	24	ATB	.075	1.9	.047	1.2	20°	5/8" ◆
185-240B	†Bulk	7-1/4"	24	ATB	.075	1.9	.047	1.2	20°	5/8" ◆

† Bulk Packed: 10 pieces per box



Carded



◆ denotes 5/8" arbor with ◆ diamond knockout.

Thin Kerf Saw Blades

These blades feature an ultra thin kerf design requiring less horsepower and reduced stock loss. The Individual blades are fully tensioned, hand hammered and heat treated for virtually no run-out. We utilize premium carbide tips that can be re-sharpened many times. Blades are available for all types of materials and will fit most brands of portable battery and electrical saws, trim saws, portable table saws, contractor table saws, miter saws, compound miter saws, sliding compound miter saws, dual sliding compound miter saws and radial arm saws.



GENERAL PURPOSE WOOD CUTTING TRIM

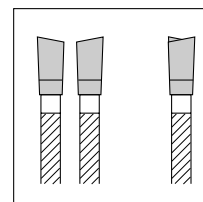
This blade is designed for small portable electric and battery powered cordless saws. Skin-packed for display.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
120-300	Carded	4-3/8"/4-1/2"	30	ATB	.071	1.8	.047	1.2	20°	20MM*

*Comes with adapter (bushing) for 3/8" arbor

This blade fits the following saws:

- Jepson® 8211
- Makita® 4100RH, 4200NH
- Panasonic® EY3502FQMKW-12Volt
- Porter-Cable® 314



ATB GRIND



GENERAL PURPOSE WOOD CUTTING TRIM

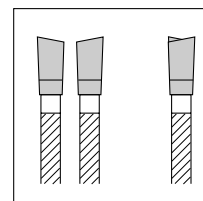
This blade is designed for small portable electric and battery powered cordless saws. Skin-packed for display.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
135-300	Carded	5-3/8"/5-1/2"	30	ATB	.071	1.8	.053	1.35	15°	5/8"*

*Comes with adapter (bushing) for 1/2" and 10MM arbors

This blade fits the following saws:

- Black&Decker® CS144-14.4Volt
- Grizzly® G8598-18Volt
- DeWalt® DW930K-12Volt, DW935K/14.4Volt, DW936K-18Volt
- Makita® 5005BA
- Panasonic® EY3503FQWKW-12Volt, EY3531FQWKW-15.6Volt
- Skil® HD5510



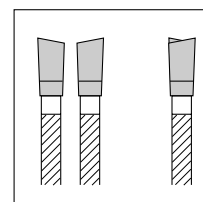
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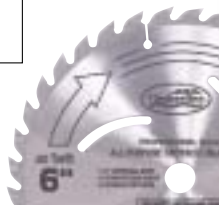
CONTRACTOR WOOD CUTTING TRIM

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
150-200	Carded	6"	20	ATB	.067	1.7	.051	1.3	20°	1/2"
150-400	Carded	6"	40	ATB	.067	1.7	.051	1.3	20°	1/2"

For use on Porter-Cable®, Saw Boss® Trim Saw Model #345 and Model #9845 19.2Volt



ATB GRIND

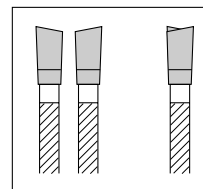


CONTRACTOR WOOD CUTTING TRIM

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
165-240	Carded	6-1/2"	24	ATB	.095	2.4	.063	1.6	20°	5/8" ♦
165-400	Carded	6-1/2"	40	ATB	.095	2.4	.063	1.6	20°	5/8" ♦

This blade fits the following saws:

- DeWalt® DW007K-24Volt, DW939-18Volt
- Hitachi® C6DC-18Volt
- Makita® 5630DWA-14.4Volt, 5620DWA-18Volt
- Makita® 5621DWD-18Volt, 5026DWD-18Volt
- Skil® HD 5825
- Talon® TJ759000-18Volt



ATB GRIND



♦ denotes 5/8" arbor with ♦ diamond knockout.

See pages 2-3 for blade/machine cross reference



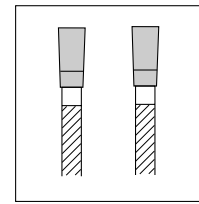
Thin Kerf Saw Blades

NAIL CUTTING

This blade was designed for cutting recycled lumber and flooring with hidden or embedded nails.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
185-140	Carded	7-1/4"	14	FT	.118	3.0	.071	1.8	-5°	5/8" ◆

All blades fit popular portable 7-1/4" Electric & Worm Drive circular saws.
Black&Decker®, Bosch®, DeWalt®, Hitachi®, Jepson®, Makita®, Milwaukee®, Porter-Cable®, Ryobi®, Skil®



FT GRIND

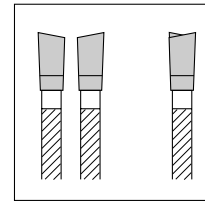


CONTRACTOR RIPPING

An excellent blade for fast cutting, framing and ripping. Also works well on Trek® board plastic decking. Anti-kickback design.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
185-180	Carded	7-1/4"	18	ATB	.079	2.0	.053	1.35	15°	5/8" ◆
185-180B	†Bulk	7-1/4"	18	ATB	.079	2.0	.053	1.35	15°	5/8" ◆

†Bulk Pack: 10 pcs. per box



ATB GRIND

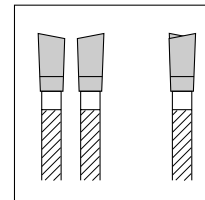


TIMBERFORCE™ GENERAL PURPOSE WOOD CUTTING

General purpose blade with anti-kickback safety design and cooling slots to prevent heat build-up. The "do-all" blade for a contractor.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
185-240	Carded	7-1/4"	24	ATB	.075	1.9	.047	1.2	20°	5/8" ◆
185-240B	†Bulk	7-1/4"	24	ATB	.075	1.9	.047	1.2	20°	5/8" ◆

†Bulk Pack: 10 pcs. per box



ATB GRIND

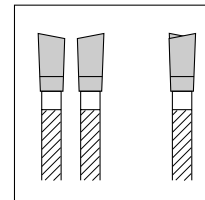


PRESSURE TREATED

Excellent blade with anti-kickback design for pressure treated lumber. Its coating allows the blade to cut easier through material by reducing pitch and resin build-up. Special carbide to stand up to the rigors of cutting pressure treated material.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
190-240	Carded	7-1/4"	24	ATB	.083	2.1	.053	1.35	20°	5/8" ◆
190-240B	†Bulk	7-1/4"	24	ATB	.083	2.1	.053	1.35	20°	5/8" ◆

†Bulk Pack: 10 pcs. per box



ATB GRIND

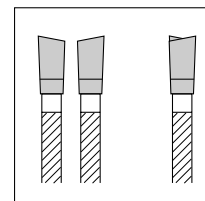


FINISHING

This blade was designed for superior cross-cutting and trimming of wood paneling, plywood and man made material. It has an alternate face shear design for exceptionally clean cuts. Yields a table saw quality cut with a hand-held machine.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
185-36	Carded	7-1/4"	36	ATB	.063	1.6	.039	1.0	20°	5/8" ◆
185-36B	†Bulk	7-1/4"	36	ATB	.063	1.6	.039	1.0	20°	5/8" ◆

All 175, 185, and 190 Series Blades fit the popular 7-1/4" Electric and Worm Drive circular saws.
Black&Decker®, Bosch®, DeWalt®, Hitachi®, Jepson®, Makita®, Milwaukee®, Porter-Cable®, Ryobi®, Skil®
†Bulk Pack: 10 pcs. per box



ATB GRIND
w/Alternate
Face Shear
(holds blade
"on-line")



◆ denotes 5/8" arbor with ◆ diamond knockout.

See pages 2-3 for blade/machine cross reference

PROFESSIONAL SPECIALTY ALL PURPOSE

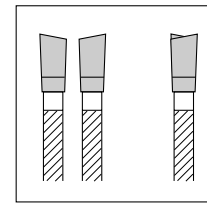
A durable series of blades designed for the contractors and Do-It-Yourselfers. These are very popular all-purpose blades used for ripping and cross cutting wood framing, decking and plywood.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
175-24C	Carded	7-1/4"	24	ATB	.106	2.7	.059	1.5	18°	5/8" ◆
175-24B	Bulk	7-1/4"	24	ATB	.106	2.7	.059	1.5	18°	5/8" ◆
175-40C	Carded	7-1/4"	40	ATB	.106	2.7	.059	1.5	18°	5/8" ◆
175-40B	Bulk	7-1/4"	40	ATB	.106	2.7	.059	1.5	18°	5/8" ◆
175-60C	Carded	7-1/4"	60	ATB	.095	2.4	.062	1.6	12°	5/8" ◆
175-60B	Bulk	7-1/4"	60	ATB	.095	2.4	.062	1.6	12°	5/8" ◆

Bulk Pack: 25 per box.

All blades fit popular portable 7-1/4" Electric & Worm Drive circular saws.

Black&Decker®, Bosch®, DeWalt®, Hitachi®, Jepson®, Makita®, Milwaukee®, Porter-Cable®, Ryobi®, Skil®



ATB GRIND



GENERAL PURPOSE

Ideal blade for framing work (rip & crosscuts). Perfect general purpose use blade for 8-1/4" side-winder and/or worm drive saws.

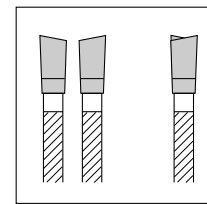
Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
215-240	Clamshell	8-1/4"	24	ATB	.079	2.0	.053	1.35	15°	5/8" ◆
215-400	Clamshell	8-1/4"	40	ATB	.087	2.2	.063	1.6	20°	5/8" ◆

Blade fits all popular 8-1/4" Electric and Worm Drive saws.

Black&Decker®, Bosch®, DeWalt®, Hitachi®, Makita®, Milwaukee®, Porter-Cable®, Skil®

Popular saws made by:

Delta® 36-275, Jepson® 8408, Makita® 2702, 2708W
Compound Miter Saws:
Delta® 36-049, Pro-tech® 7203



ATB GRIND



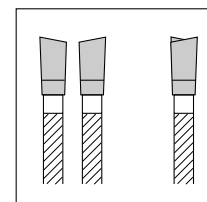
SLIDING COMPOUND MITER

Designed to work on sliding compound miter saws. A 3° negative hook angle prevents the blade from grabbing the wood too aggressively. Excellent for cross cutting and trimming crown molding, softwoods and hardwoods. Clamshell packed.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
235-400	Clamshell	8-1/2"	40	ATB	.087	2.2	.063	1.6	-3°	5/8" ◆
235-600	Clamshell	8-1/2"	60	ATB	.087	2.2	.063	1.6	-3°	5/8" ◆

These blades fit the following sliding compound miter saws:

Freud® TR215, Hitachi® C8FB2, Ryobi® TSS200, Makita® BLS820SFK-24Volt



ATB GRIND



ALUMINUM & NON-FERROUS

This blade is designed for cutting thin non-ferrous products and plastics. It features a 3° or 5° negative hook angle. When cutting non-ferrous metals, a coolant or blade wax should be used and proper clamping devices employed. Clamshell packed.

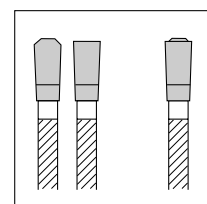
WARNING: Never attempt to cut ferrous metals (steel, iron, etc.) with these saw blades.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
★185-505	Boxed	7-1/4"	50	TCG	.110	2.8	.087	2.2	-5°	5/8" ◆
*240-600	Clamshell	8-1/2"	60	TCG	.087	2.2	.063	1.6	-3°	5/8" ◆

★Not for use on worm drive saws.

*This blade fits the following sliding compound miter saws:

Freud® TR215, Hitachi® C8FB2, Ryobi® TSS200, Makita® BLS820SFK-24Volt



TCG GRIND



GENERAL PURPOSE & FINISHING BLADE FOR MITER SAW OR STATIONARY TABLE SAW

Excellent for general purpose, cross-cutting and finishing of softwoods and hardwoods. The 0° hook angle allows for use on a broad range of material as well as machine types. Clamshell packed.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
250-400	Clamshell	10"	40	ATB	.091	2.3	.063	1.6	0°	5/8"
250-600	Clamshell	10"	60	ATB	.091	2.3	.063	1.6	0°	5/8"
250-800	Clamshell	10"	80	ATB	.091	2.3	.063	1.6	0°	5/8"

Perfect for the following miter box saws, compound miter saws, sliding compound miter saws and dual sliding compound miter saws:

Bosch® 3915

Delta® 36-070, 36-040, 36-075, 36-220, 36-225, 36-240, 36-250

Hitachi® C10FC2, C10FS, C10FCD

Makita® LS1039N, LS1040, LS1045, LS1011, LS1013

Milwaukee® 6490-6, 6496-6, 6497-6

Portable table saws and contractor table saws:

Delta® 36-540, 36-440, 36-444, 36-445, 36-480, 36-490

DeWalt® DW744S, DW746, DW703

Grizzly® G5045, G1022, G1022Z, G1022ZFX, G1022SM, G1023S/SC

Jet® JWTS-10JF, JWTS-10CW2-PFX, JWTS-10PF, JWTS-10PFX

Jet Equipment® JTS-10DD

Porter Cable® 3807

Pro-tech® 7107, 7207, 7208

Ryobi® TS254

Radial arm saws:

Delta® 33-990

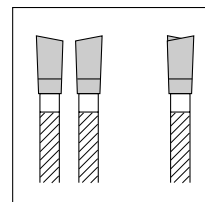
Hitachi® C10RA2

Makita® 2711, 2703/X1

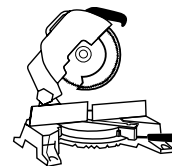
Porter Cable® 3812 • Pro-tech® 4106

Ryobi® BT3000

Skil® 3300, 3400, 3400-08



ATB GRIND



FINISHING BLADE FOR MITER SAW OR STATIONARY TABLE SAW

Blades are designed for cross-cutting and finishing of softwoods and hardwoods. The 0° hook angle allows for use on a broad range of material as well as machine types. Clamshell packed.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
300-400 New	Clamshell	12"	40	ATB	.118	3.0	.087	2.2	0°	1"
300-600	Clamshell	12"	60	ATB	.118	3.0	.087	2.2	0°	1"
300-100	Clamshell	12"	100	ATB	.118	3.0	.087	2.2	0°	1"

Perfect for the following miter box saws, compound miter saws, sliding compound miter saws and dual sliding compound miter saws:

Bosch® 3912

DeWalt® DW704, DW705, D708

Delta® 36-235

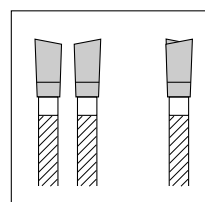
Makita® LS1220, LS1211

Porter Cable® 3802

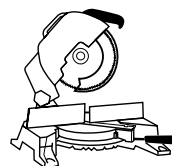
Pro-tech® CS72121

Radial arm saws:

Delta® 33-890



ATB GRIND



FINISHING BLADE FOR MITER SAW OR STATIONARY TABLE SAW

These blades are designed for finishing, cross-cutting plastics, double sided melamine and plastic laminated MDF. The 0° hook angle allows for use on a broad range of material as well as machine types. Clamshell packed.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
300-601	Clamshell	12"	60	TCG	.118	3.0	.087	2.2	0°	1"
300-101	Clamshell	12"	100	TCG	.118	3.0	.087	2.2	0°	1"

Perfect for the following miter box saws, compound miter saws, sliding compound miter saws and dual sliding compound miter saws:

Bosch® 3912

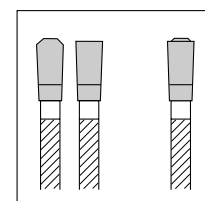
DeWalt® DW704, DW705, DW706, DW708

Delta® 36-235 • Makita® LS1220, LS1211, LS1212

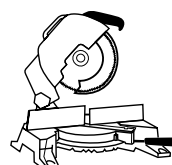
Porter Cable® 3802 • Pro-tech® CS72121

Radial arm saws:

Delta® 33-890



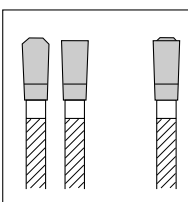
TCG GRIND



FINISHING

These blades are designed for finishing, cross-cutting plastics, double sided melamine and plastic laminated MDF. The 0° hook angle allows for use on a broad range of material as well as machine types. Clamshell packed.

Tool No.	Packaging	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
					Inch	MM	Inch	MM		
200-401*	Clamshell	8"	40	TCG	.118	3.0	.071	1.8	0°	5/8"
250-601	Clamshell	10"	60	TCG	.091	2.3	.063	1.6	0°	5/8"
250-801	Clamshell	10"	80	TCG	.091	2.3	.063	1.6	0°	5/8"



TCG GRIND



Introducing

Industrial Saw Blades



NEW

STEELFORCE™ - STEEL/METAL CUTTING

The Timberline™ SteelForce™ blade easily cuts through steel studs, steel sheets, metal rods, steel pipes, channels, and rebar.

Specially designed carbide grade resists breakage and lasts longer than standard carbide or abrasive discs.

The SteelForce™ blade is the ideal blade for cutting through all sorts of metal due to its unique two-ply blade body design, unique tooth geometry, special carbide and its chip limiting steel support.

The Timberline™ SteelForce™ blade is available in a wide range of sizes:

Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Bore
				Inch	MM	Inch	MM	
STL110-24	4-3/8"	24	MTCG	.059	1.5	.048	1.22	20MM
STL135-30	5-3/8"	30	MTCG	.055	1.4	.039	1.0	20MM
STL160-48	6-1/4"	48	MTCG	.079	2.0	.061	1.55	5/8"
STL185-38	7-1/4"	38	MTCG	.079	2.0	.061	1.55	5/8" ♦
STL185-48	7-1/4"	48	ATB	.079	2.0	.061	1.55	5/8" ♦
STL305-60	12"	60	TCG	.098	2.5	.087	2.2	1"
STL305-80	12"	80	TCG	.098	2.5	.087	2.2	1"
STL355-72	14"	72	TCG	.094	2.4	.079	2.0	1"

THE STEELFORCE™ BLADE

- Reduces noise & sparking
- Allows for fewer blade changes
- Reduces burr on edges of cutting surface
- Eliminates dust clouds

FIBERFORCE™ - FIBER CEMENT BOARD CUTTING

The Timberline™ FiberForce™ blade contains a unique 6 tooth carbide tipped design that is made for cutting single sheets of cement board or wonderboard™.

NEW

- Special flat top tooth grind
- Unique shoulder design for consistent chip removal
- Hardened body for long life
- Harder carbide for maximum cutting life



Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Bore
				Inch	MM	Inch	MM	
185-06	7-1/4"	6	FT	.071	1.80	.055	1.13	5/8" ♦

DEMOLITION

NEW

Designed to cut through most building materials - roofing, shingles, wood, nails, sand and non-ferrous materials. Each blade comes with two reduction serrated bushings.

Tool No.	Diameter		Teeth	Grind	Kerf		Plate		Hook	Bore	Incl. Bushings
	Inch	MM			Inch	MM	Inch	MM			
DB12-120	12	305	12	FT	.136	3.4	.096	2.4	-5°	1"	1" - 7/8" & 1" - 20MM
DB12-240	12	305	24	FT	.136	3.4	.096	2.4	-5°	1"	1" - 7/8" & 1" - 20MM
DB14-240	14	355	24	FT	.160	4.0	.120	3.0	-5°	1"	1" - 7/8" & 1" - 20MM



WARNING: This blade is not to be used on multi-purpose cutoff saws or gas power saws, unless saw has a guard that covers both the upper half and the lower half of the blade completely. The guard must extend to the lowest point of the cutting teeth on the bottom of the blade. Consult owner's manual of the saw & follow all instructions and safety procedures - including wearing safety goggles at all times while working with this blade.



One can never have enough saw blades. At Timberline™ we are always on the cutting edge of saw blade technology.

Our Timberline™ Industrial Blades are a quality blade that will cut with a high degree of precision while maintaining the toughness one would expect. All at a price you can afford.

Timberline's features include:

- Blades are heat treated for added strength.
- Every blade is hand hammered to keep run-out to a minimum.
- European style kerf and plate for maximum re-sharpenings and durability.
- Available in 7-1/4" dia. through 14" dia.
- Sizes to fit all popular brands of table saws, miter boxes, compound miter saws, radial arm saws and others.

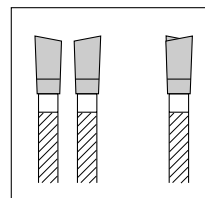
ALL SAW BLADES ON PAGES 10 & 11 ARE PACKAGED IN 4 COLOR INDUSTRIAL BOX.



RIPPING

For ripping natural woods along the grain. These anti-kickback blades will produce a quality finish on both hardwood and softwood.

Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
				Inch	MM	Inch	MM		
10-240	10"	24	ATB	.126	3.2	.087	2.2	18°	5/8"
10-240-30	10"	24	ATB	.126	3.2	.087	2.2	18°	30MM
12-240	12"	24	ATB	.130	3.3	.098	2.5	18°	1"
12-240-30	12"	24	ATB	.130	3.3	.098	2.5	18°	30MM
14-280	14"	28	ATB	.130	3.3	.098	2.5	18°	1"
14-280-30	14"	28	ATB	.130	3.3	.098	2.5	18°	30MM



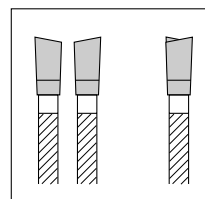
ATB GRIND



GENERAL PURPOSE

An excellent blade designed for universal use. Applications include cross-cutting and ripping of softwood and hardwood.

Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
				Inch	MM	Inch	MM		
10-400	10"	40	ATB	.126	3.2	.087	2.2	10°	5/8"
10-400-30	10"	40	ATB	.126	3.2	.087	2.2	10°	30MM
12-400	12"	40	ATB	.130	3.3	.098	2.5	10°	1"
12-400-30	12"	40	ATB	.130	3.3	.098	2.5	10°	30MM
14-400	14"	40	ATB	.130	3.3	.098	2.5	10°	1"
14-400-30	14"	40	ATB	.130	3.3	.098	2.5	10°	30MM
14-540	14"	54	ATB	.130	3.3	.098	2.5	10°	1"
14-540-30	14"	54	ATB	.130	3.3	.098	2.5	10°	30MM



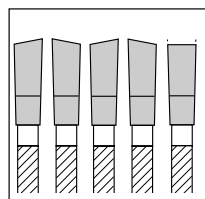
ATB GRIND



COMBINATION

The combination blade is an ideal all-purpose blade. It can be used to cross-cut or rip solid woods as well as cutting plywood.

Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
				Inch	MM	Inch	MM		
10-500	10"	50	4 & 1	.134	3.4	.097	2.45	10°	5/8"



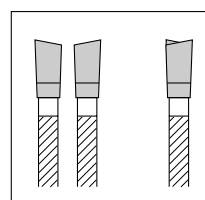
4 & 1



FINISHING

General trimming and cross-cutting of hardwood, softwood, plywood and veneers.

Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
				Inch	MM	Inch	MM		
10-600	10"	60	ATB	.126	3.2	.087	2.2	10°	5/8"
10-600-30	10"	60	ATB	.126	3.2	.087	2.2	10°	30MM
10-800	10"	80	ATB	.126	3.2	.087	2.2	10°	5/8"
10-800-30	10"	80	ATB	.126	3.2	.087	2.2	10°	30MM



ATB GRIND

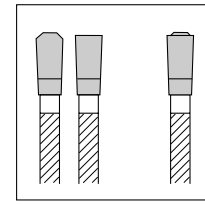


MDF/LAMINATE

Designed for chip free cutting of MDF laminates and chipboard.

ALL SAW BLADES
ON PAGES 10 & 11 ARE
PACKAGED IN 4 COLOR
INDUSTRIAL BOX.

Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
				Inch	MM	Inch	MM		
10-601	10"	60	TCG	.126	3.2	.087	2.2	10°	5/8"
10-601-30	10"	60	TCG	.126	3.2	.087	2.2	10°	30MM
10-801	10"	80	TCG	.126	3.2	.087	2.2	10°	5/8"
10-801-30	10"	80	TCG	.126	3.2	.087	2.2	10°	30MM
12-961	12"	96	TCG	.130	3.3	.098	2.5	10°	1"
12-961-30	12"	96	TCG	.130	3.3	.098	2.5	10°	30MM



TCG GRIND

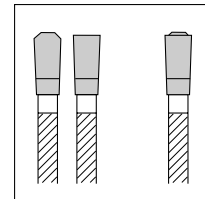


ALUMINUM & NON-FERROUS

Application: Specially designed carbide and blade geometry for cutting relatively thin-walled aluminum & non-ferrous extrusions & frames. A coolant or blade wax should be used and proper clamping devices employed.

WARNING: Never attempt to cut ferrous metals (steel, iron, etc.) with these saw blades.

Tool No.	Dia.	Teeth	Grind	Kerf		Plate		Hook Angle	Bore
				Inch	MM	Inch	MM		
185-505	7-1/4"	50	TCG	.110	2.8	.089	2.3	-5°	5/8"
10-805	10"	80	TCG	.110	2.8	.087	2.2	-5°	5/8"
10-805-30	10"	80	TCG	.110	2.8	.087	2.2	-5°	30MM
12-965	12"	96	TCG	.122	3.1	.098	2.5	-5°	1"
12-965-30	12"	96	TCG	.122	3.1	.098	2.5	-5°	30MM



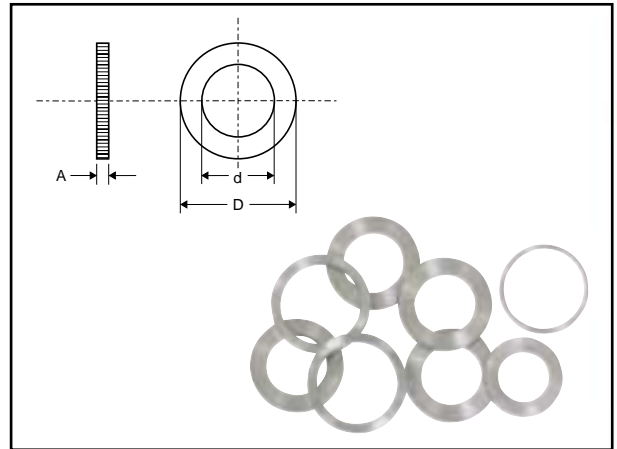
TCG GRIND



SAW BLADE REDUCING BUSHINGS

Order #	'd' Inside Dia.	'D' Outside Dia.	'A' Bushing Thickness
BU-100	5/8"	1"	.086
BU-110	1/2"	5/8"	.060
BU-130	3/4"	22MM	.062
BU-150	5/8"	3/4"	.062
BU-400	1"	1-1/4"	.086
BU-515	5/8"	30MM	.070
BU-525	1"	30MM	.070

NOTE: Most saw blade bushings have serrations on the outside diameter edge to provide a better grip and fit.

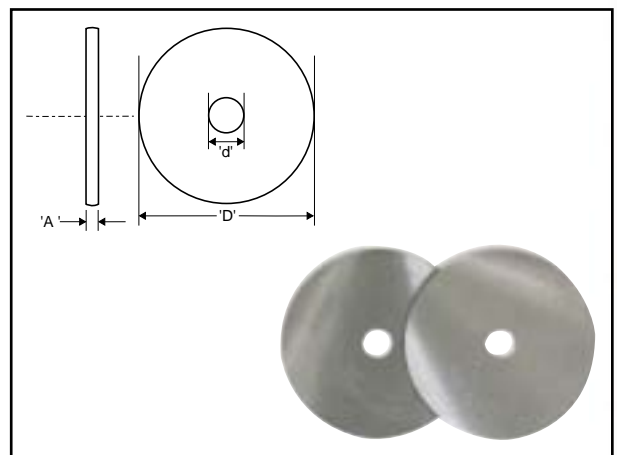


SAW BLADE STABILIZERS

Application: Used in conjunction with the collar(s) provided on your machine to increase the overall 'stiffness' of the saw blade. Particularly useful for 'thin-kerf' type blades. Unlike certain other brands, **Timberline™** stabilizers are made from the same quality tool steel that is used on our Industrial Series saw blades. The steel is ground (not stamped) and is extremely flat on both sides to reduce run-out & vibration.

Please note that the depth of cut will be reduced slightly and the table insert (if applicable) may obstruct the stabilizers when raising the blade height on table saws. You may use one or two stabilizers, depending on application and arbor length. Each order number consists of **one pair**.

Order #	'd' Bore Dia.	'D' Outside Dia.	'A' Stabilizer Thickness	Use With Saw Blade Diameter(s)
STF-4	5/8"	4"	.110" (x2)	8" - 10"
STF-6	1"	6"	.110" (x2)	12" - 14"





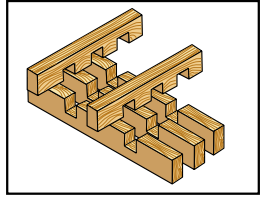
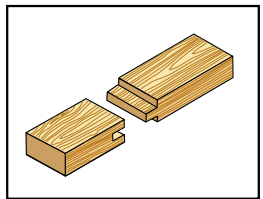
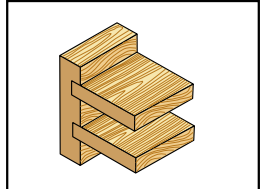
Machine guard has been removed for photo clarity.

Timberline™ 8" precision stacking dado set.
High performance results with an incredible value.



DADO SET

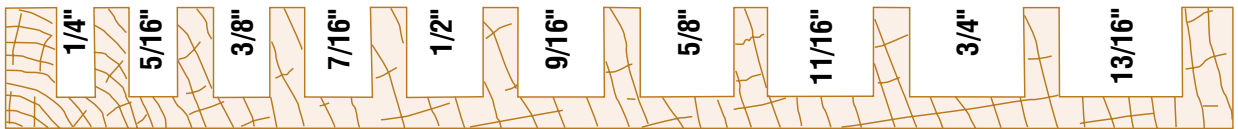
Designed to cut grooves and dados from 1/8" to 13/16". The standard set, Part #800-240, consists of two outside saw blades, four 1/8" chippers, and one 1/16" chipper. Black oxide finish. Dado Set Includes Shim Set Part #DSS-100 and instructions.



Tool No.	Dia.	Teeth	Grind	Bore
800-240	8"	24	ATB/FT	5/8"

Replacement		Kerf					Plate		
Part No.	Description	Dia.	Teeth	Grind	Inch	MM	Inch	MM	Bore
800-241	Outside Right Blade	8"	24	ATB/FT	.126	3.2	.071	1.8	5/8"
800-242	Outside Left Blade	8"	24	ATB/FT	.126	3.2	.071	1.8	5/8"
800-243	1/8" Chipper	8"	2	FT	.095	2.4	.125	3.2	5/8"
800-244	1/16" Chipper	8"	2	FT	.154	3.4	.062	1.6	5/8"

Please refer to the instruction manual enclosed with set for directions on how to stack and operate this fine dado or call our technical department for support.



DADO SHIM SET

The perfect accessory for any dado set with 5/8" bore. Set includes 14 color-coded plastic shims in various thicknesses for precise adjustment of your dado set. Especially useful for undersized plywood, etc.

Part #DSS-100

Shim Quantity	Inch	MM	Color
4	.002	.05	Gold
2	.004	.10	Yellow
4	.010	.25	Clear
4	.020	.50	White

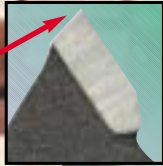




CONTRACTOR BLADES

Contractor Series

Large Carbide Tipped
Micro-grain carbide



NEW

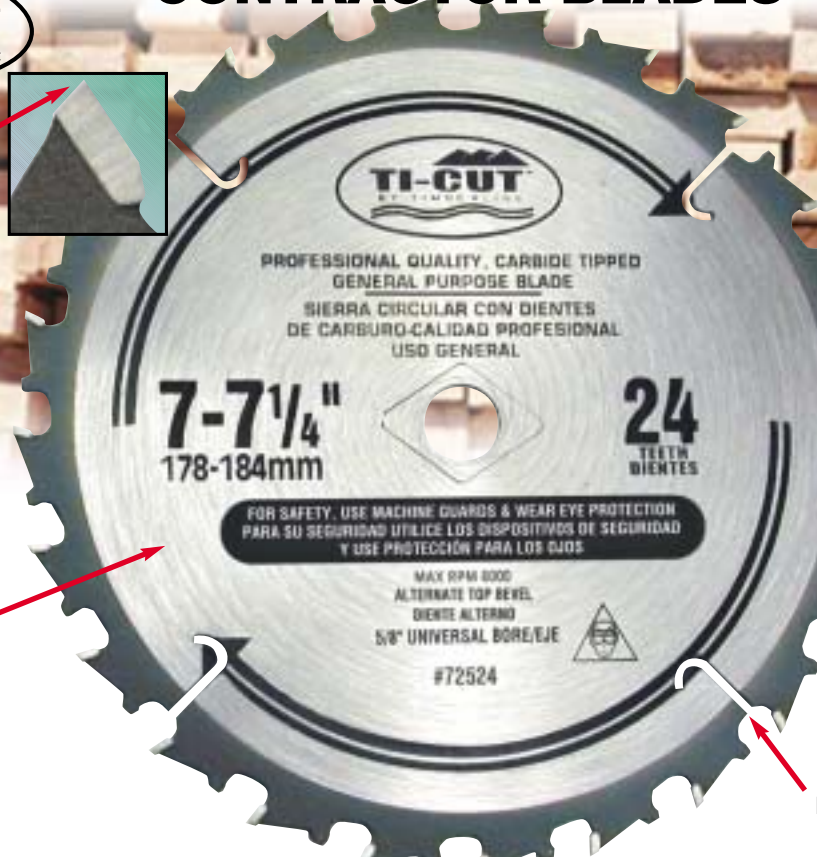
Thin Kerf for ease of cut and minimal waste

Hardened bodies Avoids warping



Anti-kickback design used for #72524 & #72540

Expansion slots



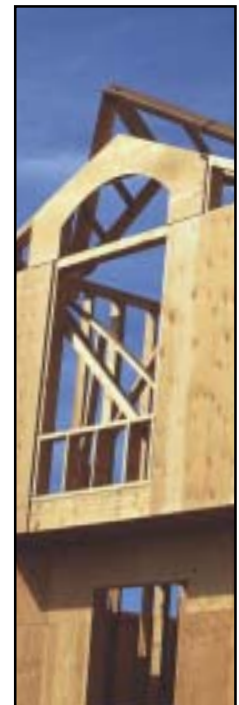
TI-CUT™

GENERAL PURPOSE & FINISHING

Heat-treated, hand-hammered bodies and large carbide tips, these blades are designed for the do-it-yourself market and contractors. Low retail price, very economical. Clamshell packed.

Tool No.	Dia.	Teeth	Grind	Bore
†72524	7-1/4"	24	ATB	5/8"◆
†72540	7-1/4"	40	ATB	5/8"◆
80032	8"	32	ATB	5/8"◆
80040	8"	40	ATB	5/8"◆
80060	8"	60	ATB	5/8"◆
82524	8-1/4"	24	ATB	5/8"◆
82540	8-1/4"	40	ATB	5/8"◆
10030	10"	30	ATB	5/8"
‡10030-30	10"	30	ATB	30MM
10040	10"	40	ATB	5/8"
‡10040-30	10"	40	ATB	30MM
10060	10"	60	ATB	5/8"
‡10060-30	10"	60	ATB	30MM
10080	10"	80	ATB	5/8"
‡10080-30	10"	80	ATB	30MM
12024	12"	24	ATB	1"
‡12024-30	12"	24	ATB	30MM
12040	12"	40	ATB	1"
‡12040-30	12"	40	ATB	30MM
12060	12"	60	ATB	1"
‡12060-30	12"	60	ATB	30MM
12080	12"	80	ATB	1"
‡12080-30	12"	80	ATB	30MM
12100	12"	100	TCG	1"
‡12100-30	12"	100	TCG	30MM

† Anti-kickback design ◆ denotes 5/8" arbor with ◆ diamond knockout.



TI-CUT™ ALUMINUM & NON-FERROUS

Application: Specially designed carbide and blade geometry for cutting relatively thin-walled aluminum & non-ferrous extrusions & frames. A coolant or blade wax should be used and proper clamping devices employed.

Tool No.	Dia.	Teeth	Grind	Bore
*10181	10"	80	TCG	5/8"
‡*10181-30	10"	80	TCG	30MM

*Non-Ferrous -5° Negative Hook Angle

‡Blades with 30MM bore include the following reduction bushings: 30MM to 1", 30MM to 3/4" and 30MM to 5/8"

WARNING: Never attempt to cut ferrous metals (steel, iron, etc.) with these saw blades.



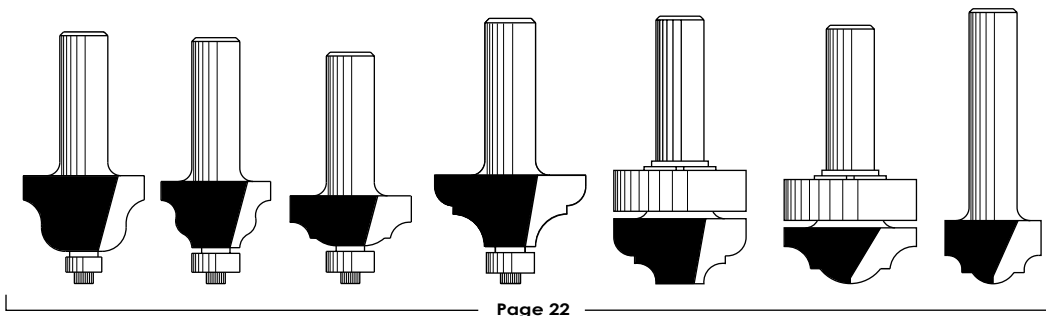
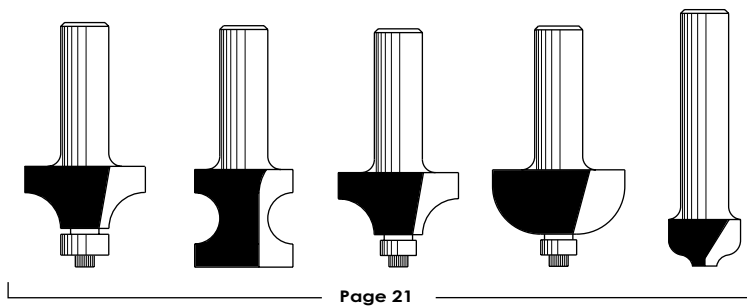
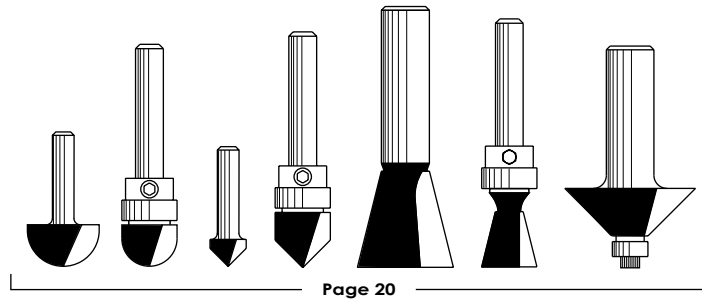
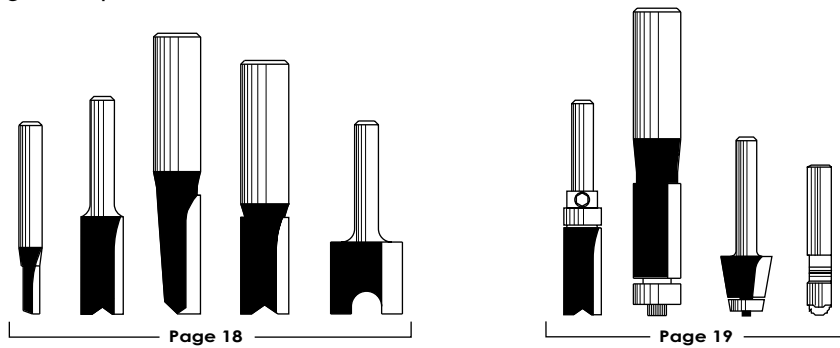
Timberline™ Carbide Tipped Router Bits

On the following pages we are proud to present our broad line of Timberline™ Carbide Tipped Router Bits.

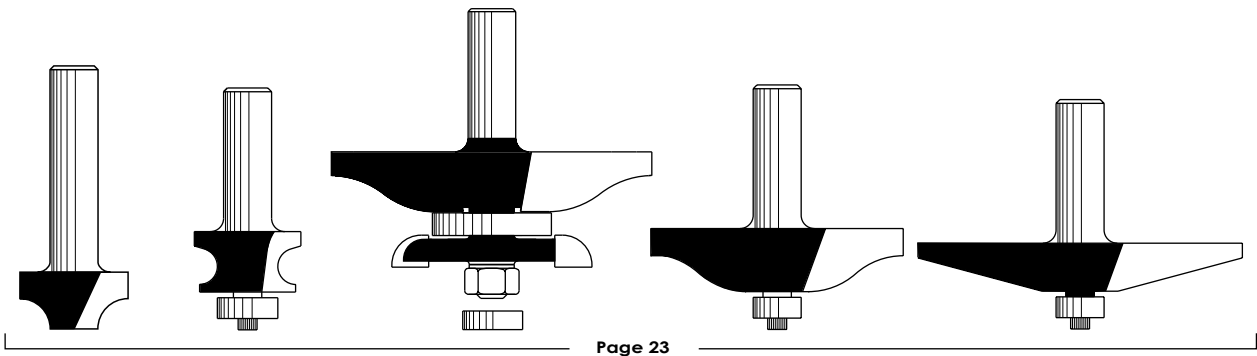
These Router Bits are turned from solid tool steel and incorporate an anti-kickback design. This inhibits the cutting tool from removing an unbalanced load of material with each flute pass, thereby decreasing the likelihood of a kickback. This offers a better degree of safety to the end-user by limiting the chip-thickness of the material being removed.

We use a high quality carbide in the manufacturing of our Timberline™ Router Bits resulting in 1) longer life 2) smoother feeds and 3) industrial quality performance.

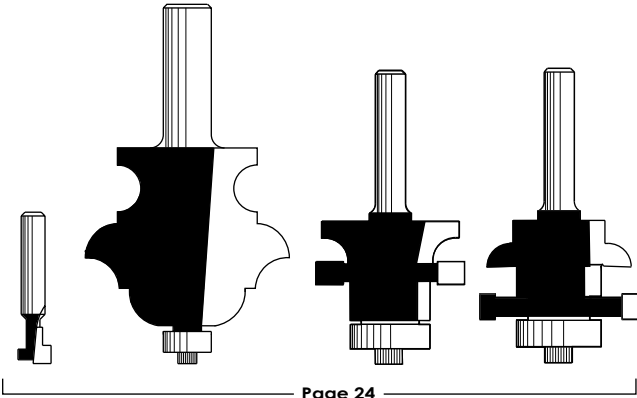
In addition, all form type bits such as corner rounds, ogees etc., feature a shear angle, radial relief and multi-axis grinding for super smooth results.



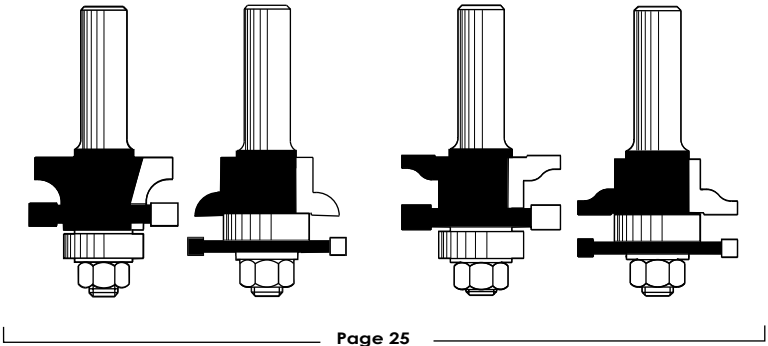
Note: *The above illustrations are not a true representation of the actual anti-kickback design.



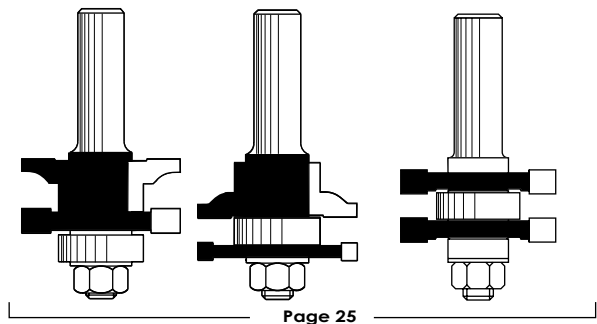
Page 23



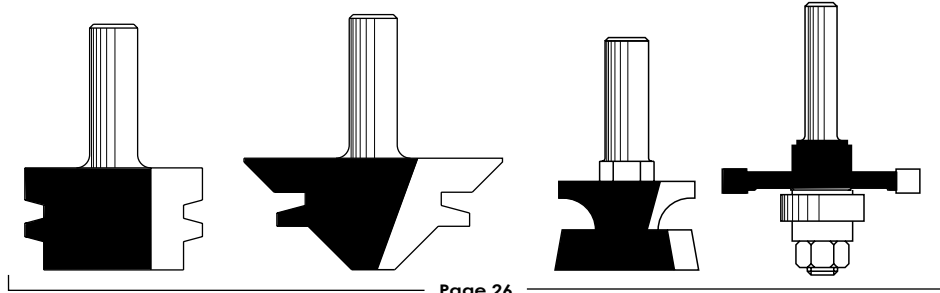
Page 24



Page 25



Page 25



Page 26

Note: *The above illustrations are not a true representation of the actual anti-kickback design.



Router Bit Selection, Application and Maintenance

All Router Bits Are Carbide-Tipped Unless Stated Otherwise.

We have prepared the following guidelines to assist our distributors and customers in the selection, application and maintenance of Timberline's™ professional router bits.

1. GENERAL INFORMATION

The router bits contained in this catalog are designed for use in portable or stationary routing machines only. Do not use router bits in any other equipment such as a drill press, portable electric drill, etc. Conversely, 'Boring Bits', are designed for boring machines and/or drill presses, and not for routing machines or portable drills. Unless specified otherwise, all router bits in this catalog are for clockwise (right hand) rotation.

Always wear proper eye protection while operating routers.

Read and understand all information provided with the particular router you are using. The router should be of high quality and all parts thereof should be well maintained. Keep body, clothing and hair away from all moving parts.

Cutting tools that are properly sharpened and maintained will cut faster, better and longer, and will be safer to use. In addition, less horsepower is required (both machine & operator) when sharp tools are used.

2. ROUTER TOOL SELECTION

Carbide router bits provide an excellent finish in solid hard and softwood, wood by-products such as MDF and plywood, and abrasive materials such as plastic, Corian® and other solid surface sheet goods. Under certain conditions, non-ferrous metals such as aluminum and brass can also be cut using carbide tools provided that a coolant is used and proper clamping devices are employed. Extreme care should be taken when cutting non-ferrous metals, and if you are not familiar with the special cutting properties of these materials, please seek professional advice before you attempt any routing or sawing. **Never** attempt to cut ferrous metals (steel, iron, carbide router bits).

Solid steel portions of our tools (shank, tool body) are **turned, milled and ground** (not cast) from the highest quality tool steel available.

Note: On certain grinding equipment, **cast body tools** have been known to be more difficult to re-sharpen due to indexing complications. Choose your tools carefully.

Always use the **shortest cutting edge** available that will meet the requirements of your application. Excessive cutting edge length and/or overall length compounds vibration and deflection - a leading cause of tool breakage.

Always use the **largest diameter shank** available that your router will accommodate.

Always use the **correct size collet** for your router & avoid using collet reducing sleeves or bushings. Reducers only add to vibration and run-out, and they generally do not provide the necessary holding capabilities as with a collet alone.

3. ROUTER TOOL USAGE

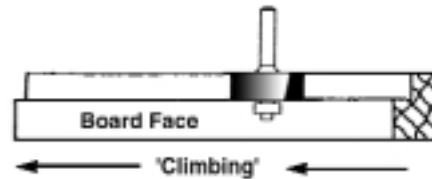
Always use **properly sharpened cutting tools**.

The **feed-rate** of a router to the workpiece (or vice-versa if used in a router table) is very important to the longevity of the tool and the overall quality of cut. The operator should feel a constant, even pressure when the work is applied to the cutter. If chattering occurs, stop the router promptly and inspect the router, cutting tool, collet and clamping devices, and ensure that the proper tool is being used for the material being cut.

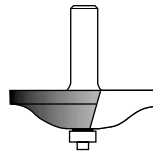
Always keep the tool moving: allowing the tool to 'dwell' in the cut will cause burning and reduce tool life immensely. Remember, heat can ruin a sharp tool.

Feed-rate ultimately depends on three factors: 1) the type of material being cut, 2) the amount of material being removed and 3) the type of tool being used.

'Climb-cutting' is **not recommended** as a portable routing technique. This action tends to grab the wood and pull the cutting tool in the direction indicated.



If using extremely **large diameter** tools, always accomplish the cut with several passes of the router or, if applicable, remove as much material prior to using the large tool by means of chamfering, etc. This method will increase tool life and generally be a safer practice than trying to remove too much material in one pass. Large diameter router bits should generally be used in a high quality router table.



Proper **collet condition** is of extreme importance. Worn, scored or out-of-round router collets do not provide adequate holding power and will increase run-out and vibration. Multiply these factors by the router R.P.M. (22,000 and greater), and you will realize why we must emphasize the importance of proper router collet condition. Do not assume that new collets are geometrically correct. Dark marks or grooves in the router bit shank usually indicate slippage and a worn collet, which should be replaced immediately.



Router bits should always be **completely inserted** into the collet and backed-off slightly (1/16" approx.). **Never partially insert the bit into the collet.** Follow the guidelines provided in your router owners manual for further information regarding this and the appropriate usage of the router base and sub-base (particularly for larger diameter tools that do not clear the standard opening in the router sub-base).



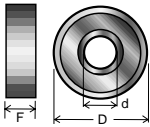
Router Bit Selection, Application and Maintenance

All Router Bits Are Carbide-Tipped Unless Stated Otherwise.

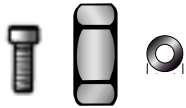
4. ROUTER TOOL MAINTENANCE

Carbide tools can be **re-sharpened** many times. Always have your cutting tools re-sharpened by a **reputable grinding firm only**. Do not attempt to sharpen your own router bits by means of files, whetstones, etc.

Keep your cutting tools clean and free of dirt, wood resin, pitch and other contaminants using a standard commercial solvent. A light coat of machine oil should prevent any surface deterioration or rust. Thoroughly wipe clean all shanks to prevent slippage during use.



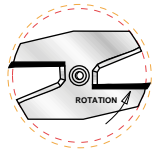
Ball Bearings should not be cleaned with solvents, as this will deteriorate the special grease packed inside them. Rather, use an air gun to blow off any dust or dirt. 'Frozen' ball bearings (ones that do not rotate freely) should be replaced promptly.



Hardware (nuts, screws, washers) should be replaced if worn.

5. ANTI-KICKBACK

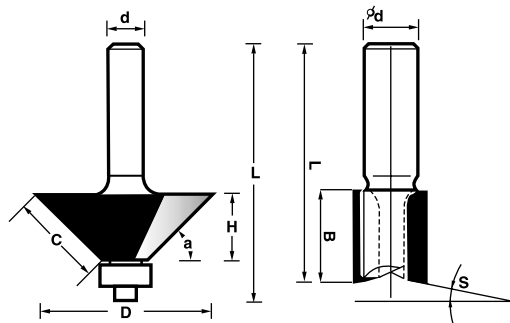
All Timberline™ router bits above 5/8" in dia. are anti-kickback design that offer some degree of safety to the end-user because they limit the 'chip-thickness' of the material being cut. In other words, the cutting tool will take less of a 'bite', thereby decreasing the likelihood of a kickback. While this is true, however, it should be pointed out that there are significant details to be considered when using cutting tools.



6. ROUTER TOOL TERMINOLOGY

Cutting Diameter ('D') refers to the largest cutting diameter of the tool and is represented in fractions, decimals and/or millimeters.

Cutting Length ('B or C') refers to the length or 'depth' of the cutting edge. This dimension usually represents the cutting edge length **parallel** to the length of the shank. Represented in fractions and/or millimeters.



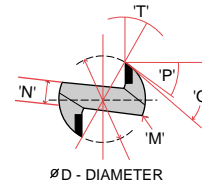
Shank Diameter ('d') refers to the largest diameter of the shank and is equivalent to the router collet **inside diameter** that is necessary to use the tool. This dimension is represented in fractions.

Overall Length ('L') refers to the total length of a router bit from the top of the shank to the bottom of the tool at its furthestmost point. This dimension is represented in fractions and/or millimeters.

Radius ('R') of a cutting tool edge refers to one-half the diameter of a complete circle, and is shown in fractions and/or millimeters.

Bevel Angle ('A') refers to the angle formed between the cutting tool edge and a straight line drawn perpendicular to the shank length, and is measured in degrees.

Rake Angle ('T') refers to the angle (or 'hook') of the cutting tool tip in relationship to a straight line drawn perpendicular through the center of the tool. This dimension is measured in degrees.



Primary Radial Clearance ('P') refers to the relief grind on the tip of the tool and is measured in degrees.

Secondary Radial Clearance ('O') refers to the combined relief grind of the primary clearance and the clearance ground into the body of the tool. This dimension is measured in degrees.

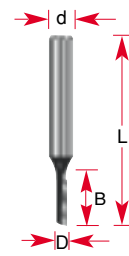
Penetration Clearance ('S') refers to the angle formed between the cutting tool edge and a straight line drawn perpendicular to the shank of the tool, and is measured in degrees. This angle allows gradual penetration into the material.

Web Diameter ('N') refers to the thickness of the ground steel body of the tool, including the heel area ('M'). The web must be of adequate thickness to withstand industrial routing applications.

STRAIGHT PLUNGE

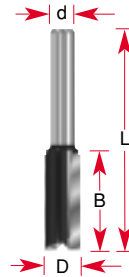
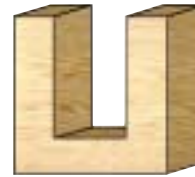
1/4" Shank • Single Flute

Tool No.	D	B	d	L
100-01 New	1/8"	7/16"	1/4"	2"
100-02 New	1/4"	1"	1/4"	2-3/8"



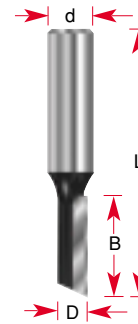
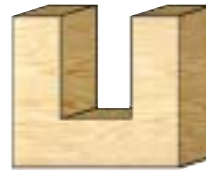
1/4" Shank • 2 Flute

Tool No.	D	B	d	L
100-04 New	1/16"	3/16"	1/4"	1-3/4"
100-08 New	3/32"	1/4"	1/4"	1-13/16"
100-10 New	1/8"	7/16"	1/4"	2"
100-12 New	5/32"	7/16"	1/4"	2-5/16"
100-14	3/16"	3/4"	1/4"	2-1/2"
100-15 New	7/32"	3/4"	1/4"	2-1/8"
100-16	1/4"	3/4"	1/4"	2"
100-17 New	1/4"	1/2"	1/4"	2"
100-18	1/4"	1"	1/4"	2-1/4"
100-22	1/4"	1"	1/4"	2-7/8"
100-26	9/32"	1"	1/4"	2-1/4"
100-30	5/16"	1"	1/4"	2-1/4"
100-34	3/8"	1"	1/4"	2-1/4"
100-38	7/16"	1"	1/4"	2-1/8"
100-42	1/2"	1"	1/4"	2-1/8"
100-46	5/8"	3/4"	1/4"	2"
100-50	3/4"	3/4"	1/4"	2"
100-54	1"	3/4"	1/4"	2"



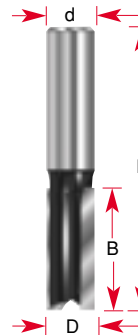
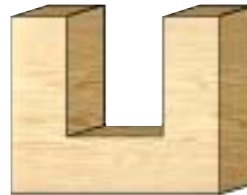
1/2" Shank • Single Flute

Tool No.	D	B	d	L
110-08 New	1/2"	1-1/2"	1/2"	3-13/16"



1/2" Shank • 2 Flute

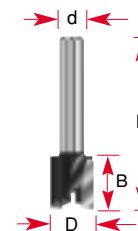
Tool No.	D	B	d	L
110-10 New	1/4"	1"	1/2"	2-3/4"
110-12 New	3/8"	3/4"	1/2"	2-1/2"
110-14	3/8"	1"	1/2"	2-3/4"
110-16 New	7/16"	1-1/4"	1/2"	3"
110-18	1/2"	1"	1/2"	2-5/8"
110-22	1/2"	1-1/4"	1/2"	2-7/8"
110-26	1/2"	1-1/2"	1/2"	3-1/8"
110-28	1/2"	2"	1/2"	4-1/4"
110-29 New	9/16"	1-1/4"	1/2"	2-7/8"
110-30	5/8"	1-1/4"	1/2"	2-7/8"
110-31 New	23/32"	1-1/4"	1/2"	2-7/8"
110-33 New	3/4"	1"	1/2"	2-5/8"
110-34	3/4"	1-1/4"	1/2"	2-7/8"
110-38	7/8"	1-1/4"	1/2"	2-7/8"
110-42 New	1"	1-1/4"	1/2"	2-7/8"



MORTISING

1/4" Shank • 2 Flute

Tool No.	D	B	d	L
130-10	1/2"	3/4"	1/4"	2"
130-12 New	5/8"	3/4"	1/4"	2"
130-14	3/4"	3/4"	1/4"	2"



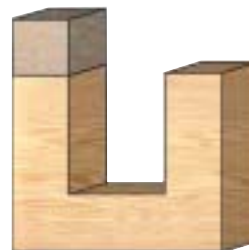
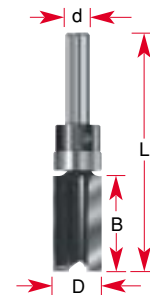
FLUSH TRIM PLUNGE

1/4" Shank • 2 Flute With Upper Ball Bearing

Tool No.	D	B	d	L	Replacement	
					Bearing	Collar
120-08 New	1/2"	1/4"	1/4"	1-3/4"	47701	47724
120-10	1/2"	1"	1/4"	2-1/2"	47701	47724
120-12 New	1/2"	1-1/4"	1/4"	2-3/4"	47701	47724
120-14	5/8"	1"	1/4"	2-3/4"	47712	47724
120-16	3/4"	1"	1/4"	2-1/2"	47714	47724

1/2" Shank • 2 Flute With Upper Ball Bearing

Tool No.	D	B	d	L	Replacement	
					Bearing	Collar
120-20 New	3/4"	1"	1/2"	3"	47721	47739
120-24 New	3/4"	1-3/4"	1/2"	3-3/4"	47721	47739
120-28 New	1-1/8"	1-1/2"	1/2"	3-1/2"	47738	47740



FLUSH TRIM

1/4" Shank • With Ball Bearing Guide

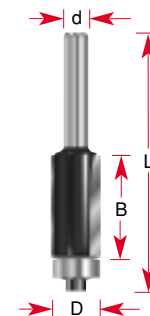
Tool No.	Flutes	D	B	d	L	Replacement Bearing
190-10	2	3/8"	1"	1/4"	2-5/8"	47702
190-14	2	3/8"	1/2"	1/4"	2-1/8"	47702
190-18	2	1/2"	1"	1/4"	2-5/8"	47706
190-22	2	1/2"	1/2"	1/4"	2-1/4"	47706
190-28 New	3	1/2"	1/2"	1/4"	2-1/4"	47706
190-30	3	1/2"	1"	1/4"	2-5/8"	47706

Replacement Screw Part No. 500-10

1/2" Shank • With Ball Bearing Guide

Tool No.	Flutes	D	B	d	L	Replacement Bearing
190-26	2	1/2"	1"	1/2"	3-1/4"	47706
190-34	3	1/2"	1"	1/2"	3"	47706
190-38	2	1/2"	1-1/2"	1/2"	3-7/8"	47706
190-42	2	1/2"	2"	1/2"	4-1/4"	47706
190-46 New	3	1/2"	1-1/2"	1/2"	3-7/8"	47706
190-50 New	2	3/4"	1"	1/2"	3-1/4"	47714

Replacement Screw Part No. 500-10



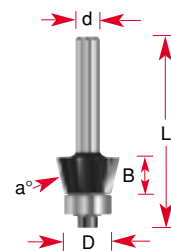
BEVEL TRIM

1/4" Shank • 2 Flute With Ball Bearing Guide

Tool No.	a°	D	B	d	L
200-10	15°	5/8"	1/4"	1/4"	2"
200-14	25°	23/32"	1/4"	1/4"	2"
200-18	45°	1"	1/4"	1/4"	2-1/16"

Replacement Bearing Part No. 47706

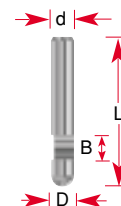
Replacement Screw Part No. 500-10



FLUSH & BEVEL TRIM W/PILOT (SOLID CARBIDE)

1/4" Shank • Single Flute

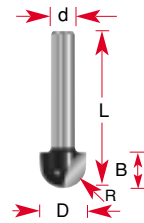
Tool No.	Type of Cut	D	B	d	L
	195-10				
195-14	7° Bevel	1/4"	1/4"	1/4"	1-1/2"



CORE BOX

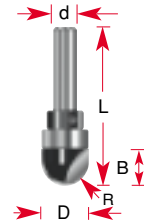
1/4" Shank • 2 Flute

Tool No.	R	D	B	d	L
160-10	1/8"	1/4"	1/4"	1/4"	1-5/8"
160-14	3/16"	3/8"	1/4"	1/4"	1-1/2"
160-18	1/4"	1/2"	3/8"	1/4"	1-1/2"
160-50 New	5/16"	5/8"	7/16"	1/4"	1-11/16"
160-22 New	3/8"	3/4"	7/16"	1/4"	1-3/4"
160-24	1/2"	1"	5/8"	1/4"	1-7/8"



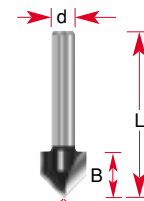
1/2" Shank • 2 Flute

Tool No.	R	D	B	d	L
160-20 New	1/4"	1/2"	3/8"	1/2"	2-1/8"
160-54 New	3/8"	3/4"	7/16"	1/2"	2"
160-58 New	1/2"	1"	11/16"	1/2"	2-3/16"



1/4" Shank • 2 Flute with Upper Ball Bearing

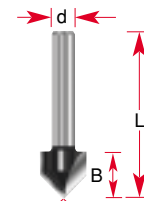
Tool No.	R	D	B	d	L
160-70	1/4"	1/2"	3/8"	1/4"	2



'V' GROOVE

1/4" Shank • 2 Flute

Tool No.	a°	D	B	d	L
180-10	90°	3/8"	7/16"	1/4"	1-5/8"
180-14 New	90°	1/2"	1/2"	1/4"	1-3/4"
180-18 New	60°	1/2"	5/8"	1/4"	1-7/8"

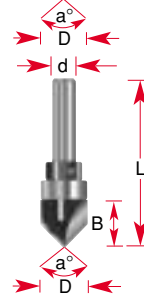
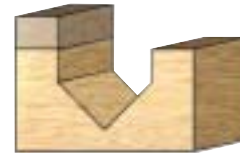


1/4" Shank • 2 Flute with Upper Ball Bearing

Tool No.	a°	D	B	d	L
180-70 New	90°	1/2"	1/2"	1/4"	2"

Replacement Bearing Part No. 47701

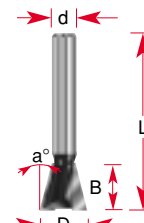
Replacement Collar Part No. 47724



DOVETAIL

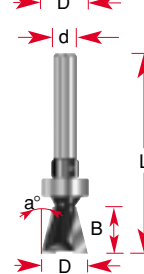
1/4" Shank • 2 Flute

Tool No.	a°	D	B	d	L
150-08 New	9°	3/8"	3/8"	1/4"	1-3/4"
150-10	14°	1/2"	1/2"	1/4"	1-3/4"



1/2" Shank • 2 Flute

Tool No.	a°	D	B	d	L
150-12 New	9°	3/8"	3/8"	1/2"	2-3/16"
150-14	14°	1/2"	1/2"	1/2"	2-3/8"
150-20 New	7°	7/8"	7/8"	1/2"	2-3/8"

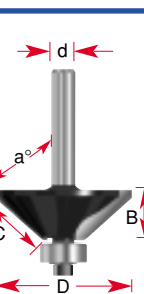


1/4" Shank • 2 Flute with Upper Ball Bearing

Tool No.	a°	D	B	d	L
150-70 New	14°	1/2"	1/2"	1/4"	2-1/4"

Replacement Bearing Part No. 47701

Replacement Collar Part No. 47724



CHAMFER

1/4" Shank • 2 Flute With Ball Bearing Guide

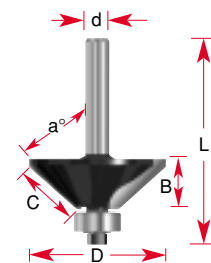
Tool No.	a°	D	C	B	d	L	Replacement Bearing
280-10	45°	1-1/4"	1/2"	5/8"	1/4"	2"	47704

Replacement Screw Part No. 500-10

1/2" Shank • 2 Flute With Ball Bearing Guide

Tool No.	a°	D	C	B	d	L	Replacement Bearing
280-14	45°	1-1/4"	1/2"	5/8"	1/2"	2-3/8"	47704
280-20 New	22-1/2°	1-1/4"	15/16"	7/8"	1/2"	1-7/8"	47706
280-42 New	30°	1-3/8"	7/8"	13/16"	1/2"	2-3/4"	47706
280-28 New	45°	2"	1-1/8"	3/4"	1/2"	1-3/4"	47706
280-32 New	45°	2-1/2"	1-3/8"	1"	1/2"	3"	47706

Replacement Screw Part No. 500-10



CORNER ROUND

1/4" Shank • 2 Flute With Ball Bearing Guide

Tool No.	R	D	B	d	L
320-10	1/8"	3/4"	3/8"	1/4"	2"
320-14	3/16"	7/8"	1/2"	1/4"	2"
320-18	1/4"	1"	1/2"	1/4"	2"
320-20 New	5/16"	1-1/8"	1/2"	1/4"	2-1/16"
320-26	3/8"	1-1/4"	5/8"	1/4"	2-3/16"
320-34	1/2"	1-1/2"	3/4"	1/4"	2-1/4"

Replacement Bearing Part No. 47706

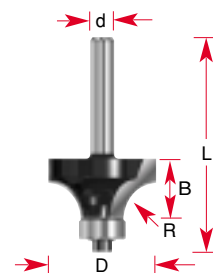
Replacement Screw Part No. 500-10

1/2" Shank • 2 Flute With Ball Bearing Guide

Tool No.	R	D	B	d	L
320-22	1/4"	1"	1/2"	1/2"	2-7/16"
320-30	3/8"	1-1/4"	5/8"	1/2"	2-9/16"
320-38	1/2"	1-1/2"	3/4"	1/2"	2-5/8"
320-42	3/4"	2"	1"	1/2"	2-7/8"

Replacement Bearing Part No. 47706

Replacement Screw Part No. 500-10

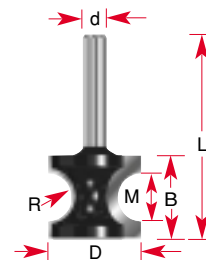


BULL NOSE RADIUS

1/2" Shank • 2 Flute

Tool No.	*M'	R	D	B	d	L
350-10 New	1/4"	9/64"	21/32"	3/4"	1/2"	2-1/4"

*M' denotes thickness of material on which a full 180° round over can be accomplished.



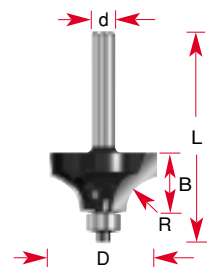
BEADING

1/4" Shank • 2 Flute With Ball Bearing Guide

Tool No.	R	D	B	d	L
340-10	3/16"	7/8"	1/2"	1/4"	2"
340-14	1/4"	1"	1/2"	1/4"	2"
340-16 New	5/16"	1-1/8"	1/2"	1/4"	2-1/16"
340-18	3/8"	1-1/4"	5/8"	1/4"	2-3/16"
340-22	1/2"	1-1/2"	3/4"	1/4"	2-1/4"

Replacement Bearing Part No. 47702

Replacement Screw Part No. 500-10



COVE

1/4" Shank • 2 Flute With Ball Bearing Guide

Tool No.	R	D	B	d	L
220-10	1/4"	7/8"	1/2"	1/4"	2"
220-14	3/8"	1-1/8"	1/2"	1/4"	2"
220-18	1/2"	1-3/8"	5/8"	1/4"	2-1/4"

Replacement Bearing Part No. 47704

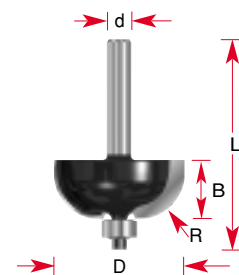
Replacement Screw Part No. 500-10

1/2" Shank • 2 Flute With Ball Bearing Guide

Tool No.	R	D	B	d	L
220-30 New	3/8"	1-1/8"	9/16"	1/2"	2-29/64"
220-34 New	1/2"	1-3/8"	3/4"	1/2"	2-41/64"

Replacement Bearing Part No. 47702

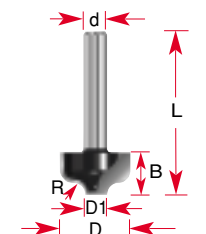
Replacement Screw Part No. 500-10



OGEE

1/2" Shank • 2 Flute

Tool No.	D	D1	R	B	d	L
450-60 New	3/4"	.256	9/64"	1/2"	1/2"	2"



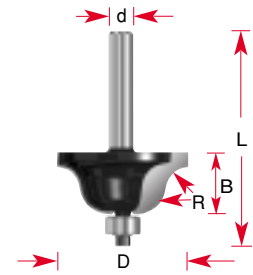
ROMAN OGEE

1/4" Shank • 2 Flute With Ball Bearing Guide

Tool No.	D	R	B	d	L
240-10	1"	5/32"	15/32"	1/4"	2-1/8"
240-18	1-3/8"	1/4"	21/32"	1/4"	2-1/4"

Replacement Bearing Part No. 47704

Replacement Screw Part No. 500-10



1/2" Shank • 2 Flute With Ball Bearing Guide

Tool No.	D	R	B	d	L
240-14	1"	5/32"	15/32"	1/2"	2-1/2"
240-22 New	1-3/8"	1/4"	7/8"	1/2"	2-5/8"

Replacement Bearing Part No. 47704

Replacement Screw Part No. 500-10

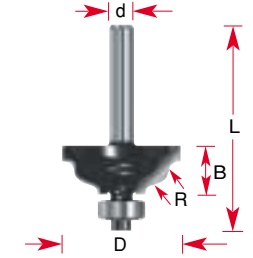
WAVY EDGE

1/4" Shank • 2 Flute With Ball Bearing Guide

Tool No.	D	R	B	d	L
380-10	1-1/4"	5/32"	9/16"	1/4"	2-1/4"

Replacement Bearing Part No. 47706

Replacement Screw Part No. 500-10



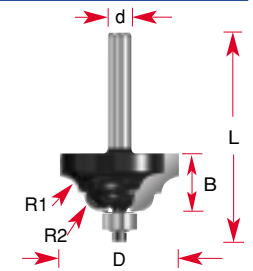
CLASSICAL

1/4" Shank • 2 Flute With Ball Bearing Guide

Tool No.	D	R1	R2	B	d	L
360-10	1-1/4"	13/64"	5/16"	1/2"	1/4"	2"
360-14	1-1/2"	15/64"	7/32"	5/8"	1/4"	2-1/8"

Replacement Bearing Part No. 47706

Replacement Screw Part No. 500-10



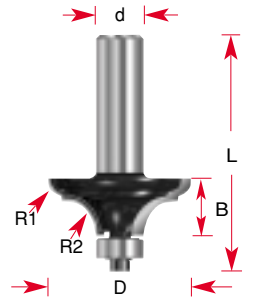
CLASSICAL COVE & BEAD

1/2" Shank • 2 Flute With Ball Bearing Guide

Tool No.	D	R1	R2	B	d	L
400-10	1-1/2"	3/16"	5/16"	11/16"	1/2"	2-1/2"

Replacement Bearing Part No. 47706

Replacement Screw Part No. 500-10



CLASSICAL PLUNGE

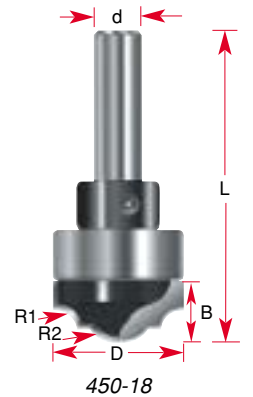
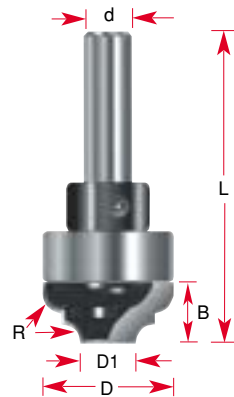
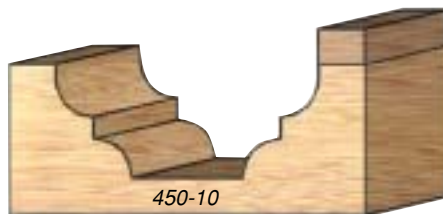
1/2" Shank • 2 Flute With Ball Bearing Guide

Can be Used with a Template

Tool No.	R	R1	R2	D	D1	B	d	L
450-10	13/64	—	—	1-3/8"	.522	9/16"	1/2"	2-5/8"
450-18 New	—	1/4"	13/32"	1-3/8"	—	9/16"	1/2"	2-5/8"

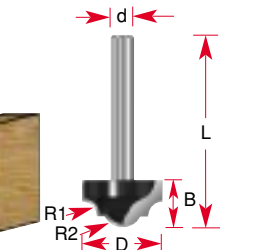
Replacement Bearing Part No. 47734

Replacement Collar Part No. 47740



1/4" Shank

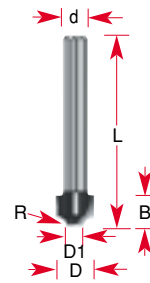
Tool No.	D	D1	R1	R2	B	d	L
450-08 New	1/2"	—	3/32"	9/64"	7/16"	1/4"	2"



PLUNGE BEADING

1/4" Shank • 2 Flute

Tool No.	R	D	D1	B	d	L
450-04 New	3/32"	3/8"	3/16"	5/16"	1/4"	2"



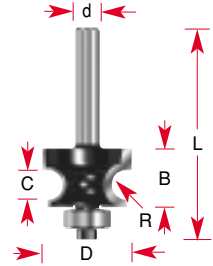
CORNER BEADING

2 Flute With Ball Bearing Guide

Tool No.	R	D	B	C	d	L
370-10	1/8"	7/8"	1/2"	1/4"	1/4"	2-1/8"

Replacement Bearing Part No. 47706

Replacement Screw Part No. 500-10



RAISED PANEL

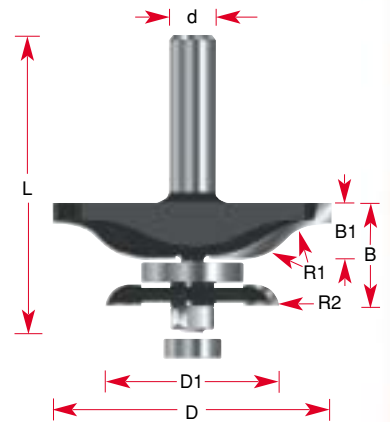
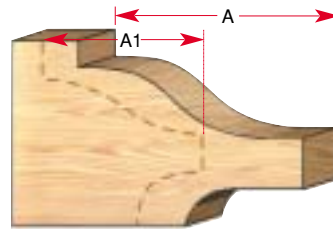
OGEE WITH BACK CUTTER

2 Flute With Ball Bearing Guide

Tool No.	'A' Reveal	'A1' Reveal	R1	R2	D	D1	B	B1	d	L
420-50 New	1-3/8"	1-1/16"	7/8"	5/16"	3-3/8"	2-1/8"	1-3/16"	5/8"	1/2"	3-1/16"

Replacement Bearing Part No. 47713 (8mm x 16mm) for 'A' reveal.

Replacement Bearing Part No. 47763 (8mm x 1-1/4") included for 'A1' reveal.



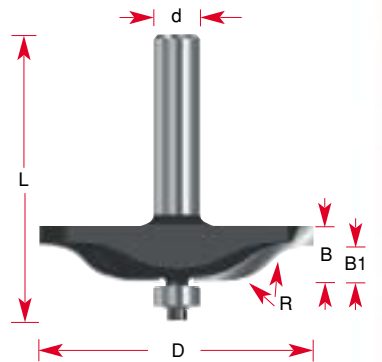
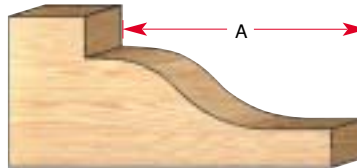
OGEE

2 Flute With Ball Bearing Guide

Tool No.	'A' Reveal	R	D	B	B1	d	L
420-10	1-1/16"	3/4"	2-5/8"	5/8"	5/16"	1/2"	2-1/2"
420-22 New	1-7/16"	7/8"	3-3/8"	9/16"	3/8"	1/2"	2-1/2"

Replacement Bearing Part No. 47706

Replacement Screw Part No. 500-10



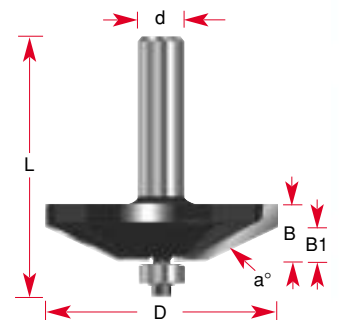
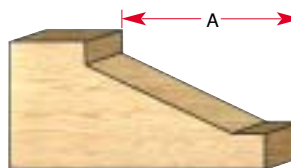
TRADITIONAL

2 Flute With Ball Bearing Guide

Tool No.	'A' Reveal	a°	D	B	B1	d	L
420-30 New	1-7/16"	15°	3-3/8"	1/2"	5/16"	1/2"	2-15/32"

Replacement Bearing Part No. 47706

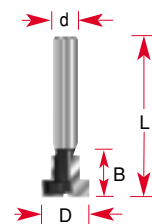
Replacement Screw Part No. 500-10



KEYHOLE

Single Flute

Tool No.	D	B	d	L
140-10	3/8"	3/8"	1/4"	1-1/2"
140-14	1/2"	3/8"	1/4"	1-1/2"



MULTI-FORM

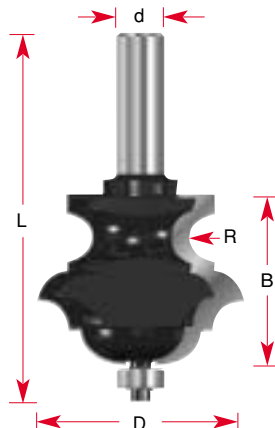
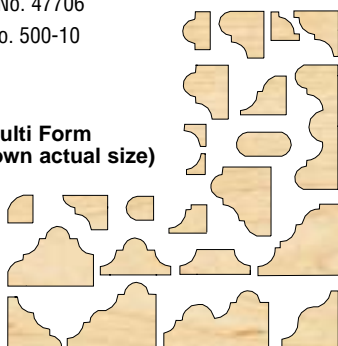
2 Flute With Ball Bearing Guide

Tool No.	R	D	B	d	L
12 390-10	15/64"	2-1/4"	1-7/8"	1/2"	4"

Replacement Bearing Part No. 47706

Replacement Screw Part No. 500-10

Multi Form
(not shown actual size)



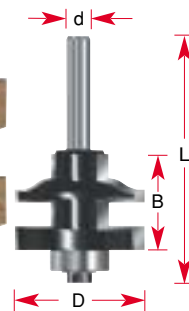
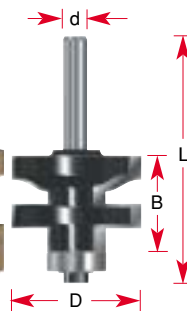
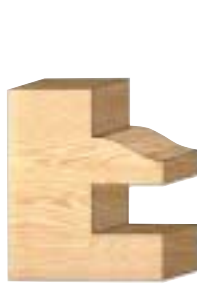
2-PIECE OGEE STILE AND RAIL SET

2 Flute With Ball Bearing Guide

Tool No.	Pattern Type	D	B	d	L
440-24 New	Ogee Set	1-3/8"	1"	1/4"	3"

Replacement Bearing Part No. 47712

Replacement Screw Part No. 500-10



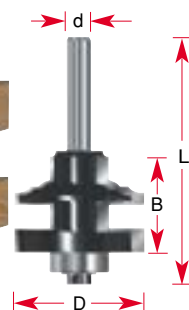
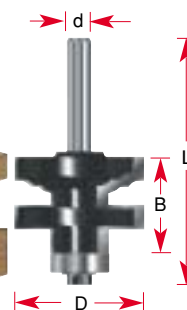
2-PIECE CLASSICAL STILE AND RAIL SET

2 Flute With Ball Bearing Guide

Tool No.	Pattern Type	D	B	d	L
440-26 New	Classical Set	1-3/8"	1"	1/4"	3"

Replacement Bearing Part No. 47712

Replacement Screw Part No. 500-10



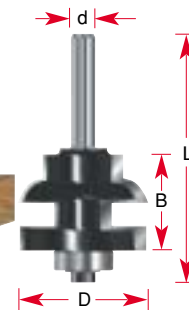
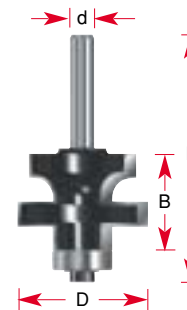
2-PIECE CONCAVE STILE AND RAIL SET

2 Flute With Ball Bearing Guide

Tool No.	Pattern Type	D	B	d	L
440-28 New	Concave Set	1-3/8"	1"	1/4"	3"

Replacement Bearing Part No. 47712

Replacement Screw Part No. 500-10

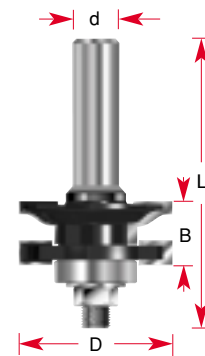


REVERSIBLE OGEE STILE AND RAIL

2 Flute With Ball Bearing Guide

Tool No.	Pattern Type	D	B	d	L
440-10	Ogee Assembly	1-5/8"	7/8"	1/2"	3"

Replacement Bearing Part No. 47708

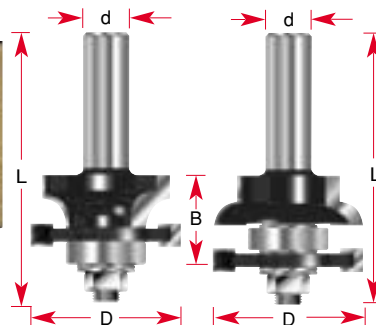
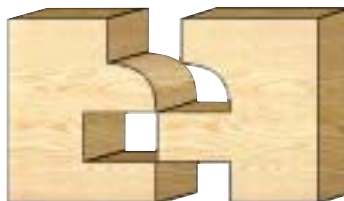


2-PIECE CONCAVE STILE AND RAIL

2 Flute With Ball Bearing Guide

Tool No.	Pattern Type	D	B	d	L
440-14	Concave Set	1-5/8"	1-1/16"	1/2"	3-5/16"

Replacement Bearing Part No. 47708

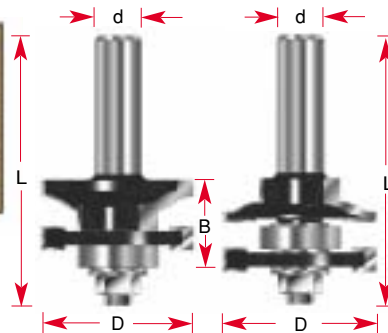


2-PIECE OGEE STILE AND RAIL

2 Flute With Ball Bearing Guide

Tool No.	Pattern Type	D	B	d	L
440-18	Ogee Set	1-5/8"	1-1/16"	1/2"	3-5/16"

Replacement Bearing Part No. 47708

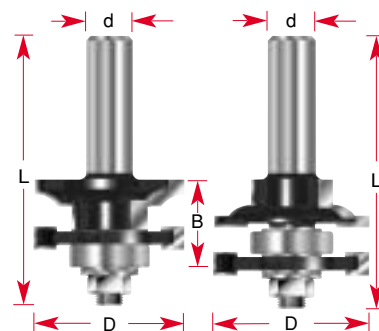
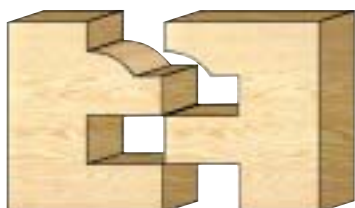


2-PIECE BEAD STILE AND RAIL

2 Flute With Ball Bearing Guide

Tool No.	Pattern Type	D	B	d	L
440-22	Bead Set	1-5/8"	1-1/16"	1/2"	3-5/16"

Replacement Bearing Part No. 47708



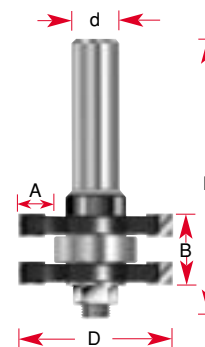
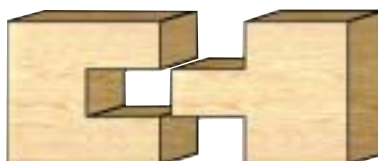
TONGUE AND GROOVE ASSEMBLY

2 Flute With Ball Bearing Guide

1 Bit Set Includes 2 Cutters, 2 Bearings & 1 Arbor

Tool No.	D	B	"A" Depth of Cut	d	L
460-10	1-5/8"	3/4"	3/8"	1/2"	3"

Replacement Bearing Part No. 47708

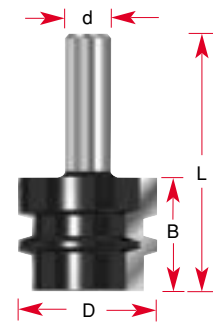


GLUE JOINT

2 Flute

Second piece is cut 'upside-down' to the first for a perfect fit. There is no need to realign the router depth, provided that the wood is centered to the cutting edge of the bit. For 5/8" through 1" material.

Tool No.	D	B	d	L
470-10	1-7/8"	1-3/32"	1/2"	2-5/8"

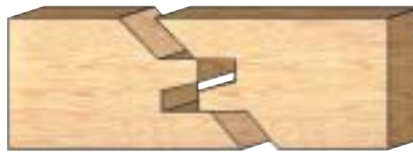
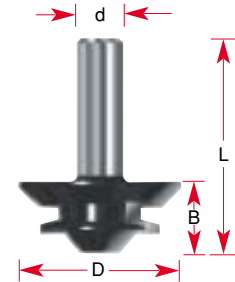
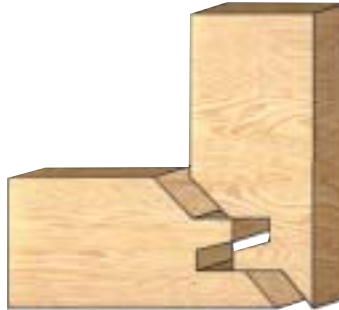


LOCK MITER

2 Flute

First piece is cut flat (horizontal) and the second is cut perpendicular (vertical) to the first for a perfect fit. There is no need to re-align the router depth, provided that the wood is centered to the cutting edge of the bit. Not recommended for use in a pin router nor a router table unless the length of your material can be handled easily.

Tool No.	D	B	d	L
490-10	2-11/16"	1-3/16"	1/2"	2-5/8"

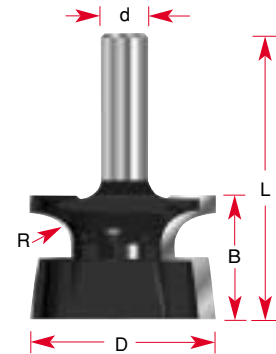


DOOR LIP

2 Flute

Corner Round & Taper Rabbet

Tool No.	D	R	B	d	L
480-10	2"	3/8"	1-3/16"	1/2"	2-3/4"



SLOTING CUTTER ASSEMBLIES

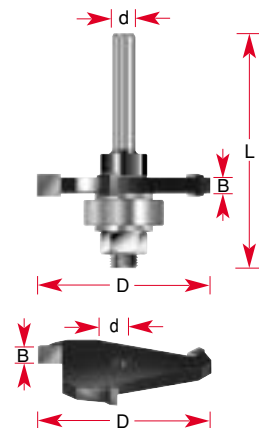
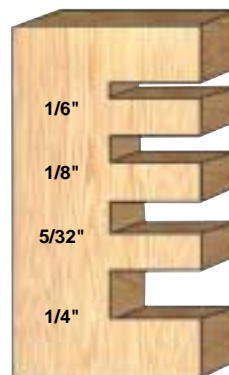
3-Wing 1/4" Shank

Includes Cutter, Arbor & Ball Bearing



Tool No.	D	B	d	L
270-10	1-7/8"	1/16"	1/4"	2-1/8"
270-12	1-7/8"	1/8"	1/4"	2-1/8"
270-14	1-7/8"	5/32"	1/4"	2-1/8"
270-16	1-7/8"	1/4"	1/4"	2-1/8"

Replacement Bearing Part No. 47708

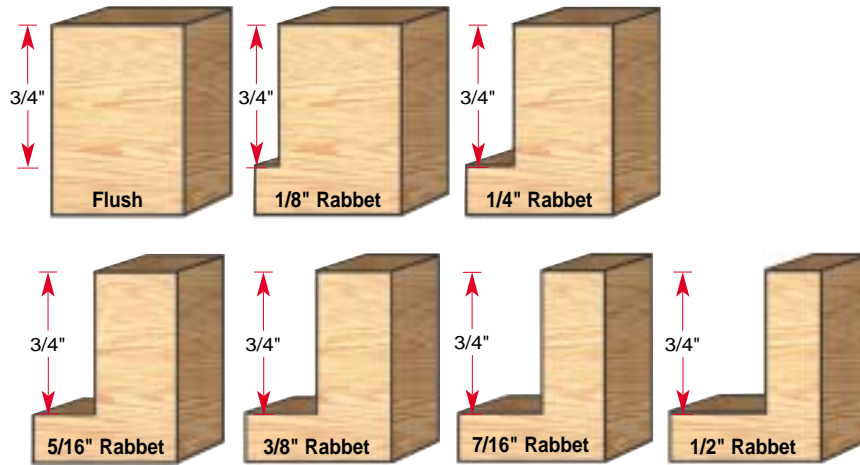


RABBET SET

Our new Multi-Depth Rabbet Set is perfect for any size cabinet shop. Micro-grain carbide tips, a 3/4" cutting length with an aggressive shear for chip-free cutting in today's "highly abrasive" materials. Cuts 7 sizes ranging from flush to 1/2" rabbet.

Tool No.	D	A (Rabbet Depth)	B	d	L
260-40 New	1-3/8"	Multi-Depth Rabbet Set Rabbets: Flush, 1/8", 1/4", 5/16", 3/8", 7/16", 1/2"	3/4"	1/2"	2-15/16"

Replacement Screw Part No. 500-10

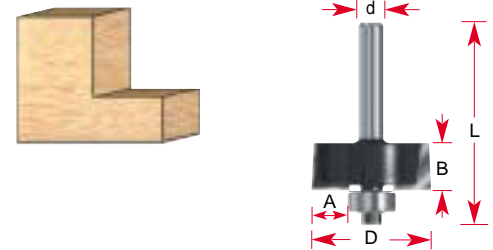


RABBETING BITS

2 Flute With Ball Bearing Guide

Tool No.	D	A	B	d	L
260-10	1-1/4"	3/8"	1/2"	1/4"	2"
260-14	1-1/4"	3/8"	1/2"	1/2"	2-3/8"

Replacement Bearing Part No. 47706
Replacement Screw Part No. 500-10



RABBET & FLUSH TRIM SET TRS-300

Two bits with four ball bearings

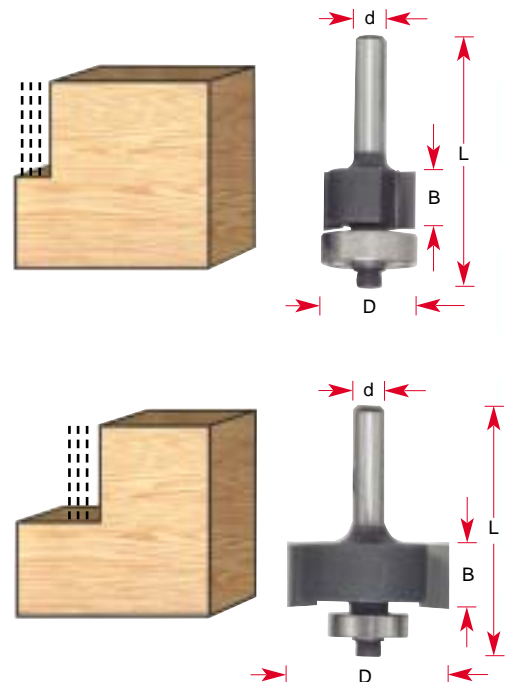
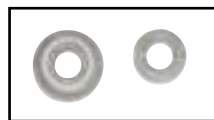
This unique system utilizes two rabbet bits and four bearings allowing eight different cuts. Flush to 7/16" rabbet.

Tool No.	D	B	d	L
Flush Bit	3/4"	1/2"	1/4"	2"
Rabbet Bit	1-1/4"	1/2"	1/4"	2-1/4"
TRS-300 Complete set of 2 bits and 4 bearings Flush, 1/16", 1/8", 3/16", 1/4", 5/16", 3/8", 7/16"				

Replacement Screw Part No. 67096

Replacement bearings:

Order No.	Size	For Rabbet Depth
47702	3/16" x 3/8"	3/16" and 7/16"
47706	3/16" x 1/2"	1/8" and 3/8"
47718	3/16" x 5/8"	1/16" and 5/16"
47720	3/16" x 3/4"	Flush and 1/4"



11 PIECE STARTER SET

TRS-160

1/4" Shank



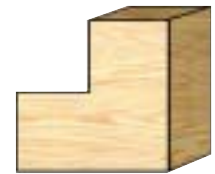
NEW



280-10



100-16



260-10



150-10



200-10



100-34



100-42



190-18



320-26

Consists of one each of the following:

Tool No.	Description
280-10	45° Chamfer bit
100-16	1/4" Dia. straight plunge bit, 3/4" cutting length
260-10	3/8" Depth rabbet bit, 1/2" cutting length
150-10	1/2" Dia. 14° dovetail bit, 1/2" cutting length
200-10	15° Bevel trim bit
100-34	3/8" Dia. straight plunge bit, 1" cutting length
100-42	1/2" Dia. straight plunge bit, 1" cutting length
190-18	1/2" Dia. flush trim bit, 1" cutting length
320-26	3/8" Radius corner round bit
47702	3/16" x 3/8" Bearing (changes #320-26 to #340-18 bead bit)
5000	Allen key

Includes a custom-made hardwood storage case.

For detailed tool specifications, see router bit section of catalog.

11 PIECE STARTER SET

TRS-170

1/2" Shank

NEW



100-14



110-22



150-14



190-26



220-30



240-14



260-14



280-14



320-30

Consists of one each of the following:

Tool No.	Description
100-14	3/16" Dia. straight plunge bit, 1/4" cutting length
110-22	1/2" Dia. straight plunge bit, 1-1/4" cutting length
150-14	1/2" Dia. 14° dovetail bit, 1/2" cutting length
190-26	1/2" Dia. flush trim bit, 1" cutting length
220-30	3/8" Radius cove bit
240-14	5/32" Radius Roman Ogee bit
260-14	3/8" Depth rabbet bit, 1/2" cutting length
280-14	45° Chamfer bit
320-30	3/8" Radius corner round bit
47702	3/16" x 3/8" Bearing (Changes #320-30 to bead bit)
5000	Allen key

Includes a custom-made hardwood storage case.

For detailed tool specifications, see router bit section of catalog.

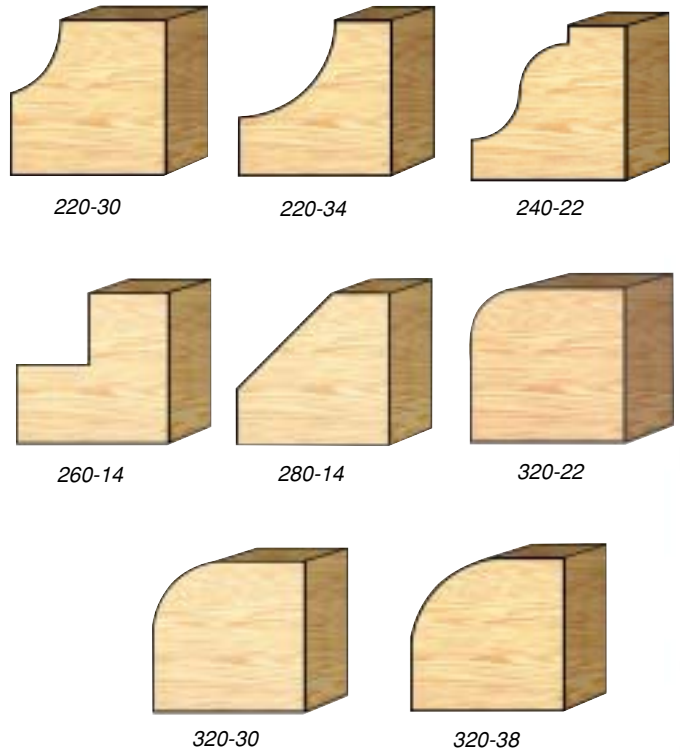


NOTE: All wood samples on this page are shown actual size.

8-PIECE PROFILE SET TRS-180



1/2" Shank



Consists of one each of the following:

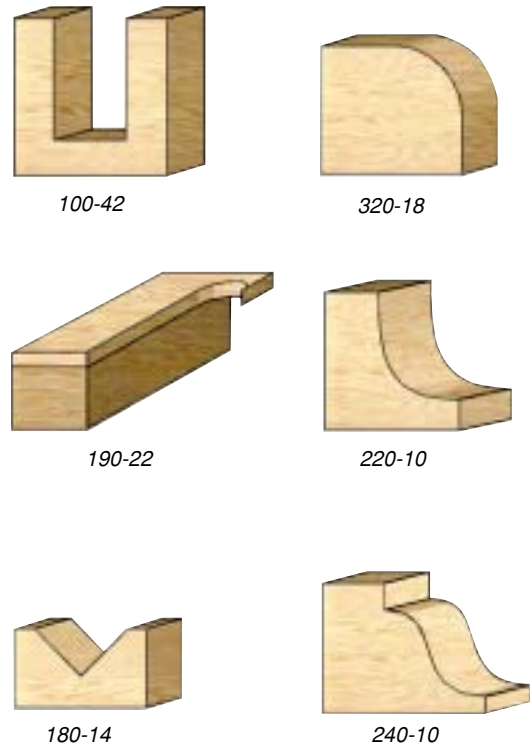
Tool No.	Description
220-30	3/8" Radius cove bit
220-34	1/2" Radius cove bit
240-22	1/4" Radius Roman ogee bit
260-14	Rabbet bit 3/8" depth of cut
280-14	45° Chamfer bit
320-22	1/4" Radius corner round bit
320-30	3/8" Radius corner round bit
320-38	1/2" Radius corner round bit

Includes a custom-made hardwood storage case.
For detailed tool specifications, see router bit section of catalog.

6-PIECE ALL PURPOSE SET TRS-240



1/4" Shank



Consists of one each of the following:

Tool No.	Description
100-42	1/2" Dia. straight bit, 1" cutting length
320-18	1/4" Radius corner round bit
190-22	1/2" Dia. flush trim bit, 1/2" cutting length
220-10	1/4" Radius cove bit
180-14	90° "V" Groove bit, 1/2" cutting length
240-10	5/32" Radius Roman Ogee bit

Includes a custom-made hardwood storage case.
For detailed tool specifications, see router bit section of catalog.

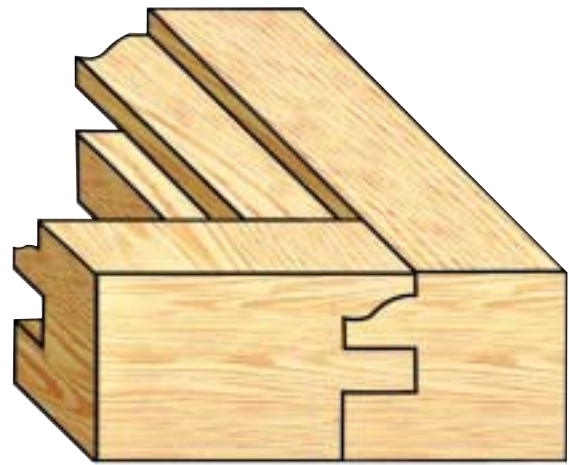
NOTE: All wood samples on this page are shown actual size.



3-PIECE RAISED PANEL SET WITH BACK CUTTER

TRS-250

1/2" Shank



440-18



420-50

Consists of one each of the following:	
Tool No.	Description
440-18	1-5/8" Dia. Ogee 2-piece stile & rail
*420-50	3-3/8" Dia. Ogee w/back cutter raised panel bit

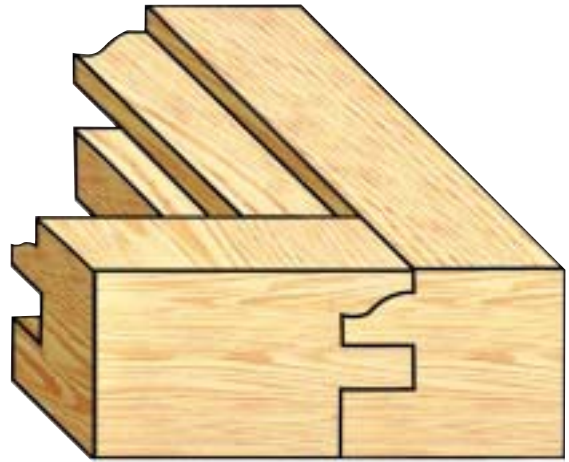
Includes a custom-made hardwood storage case.
For detailed tool specifications, see router bit section of catalog.

*Includes extra ball bearing No. 47713

3-PIECE RAISED PANEL SET

TRS-260

1/2" Shank



440-18



420-22

Consists of one each of the following:	
Tool No.	Description
440-18	1-5/8" Dia. Ogee 2-piece stile & rail
420-22	3-3/8" Dia. Ogee raised panel bit

Includes a custom-made hardwood storage case.
For detailed tool specifications, see router bit section of catalog.



5 PIECE DOOR MAKING SET

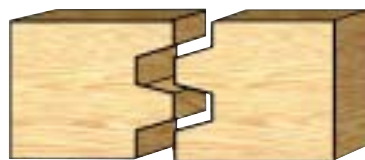
TRS-100

1/2" Shank

Consists of one each of the following:

Tool No.	Description
470-10	1-7/8" Dia. glue joint, 1-3/32" cutting length
480-10	2" Dia. door lip, 1-3/16" cutting length
420-10	2-5/8" Dia. raised panel, 5/8" cutting length
440-14	1-5/8" Dia. concave stile & rail set, 1-1/16" cutting length

Includes a custom-made hardwood storage case.
For detailed tool specifications, see router bit section of catalog.



470-10



480-10



420-10



440-14

5-PIECE CABINET MAKING SET

TRS-150

1/2" Shank

Consists of one each of the following:

Tool No.	Description
450-10	1-3/8" Dia. classical plunge, 9/16" cutting length
320-42	3/4" Rad. corner round
420-10	2-5/8" Dia. ogee raised panel, 5/8" cutting length
440-18	1-5/8" Dia. ogee stile & rail set, 1-1/16" cutting length

Includes a custom-made hardwood storage case.
For detailed tool specifications, see router bit section of catalog.



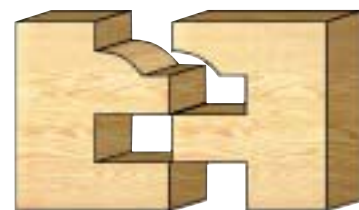
450-10



320-42



420-10



440-18

NOTE: All wood samples on this page are shown actual size.



5-PIECE MOULDING SET

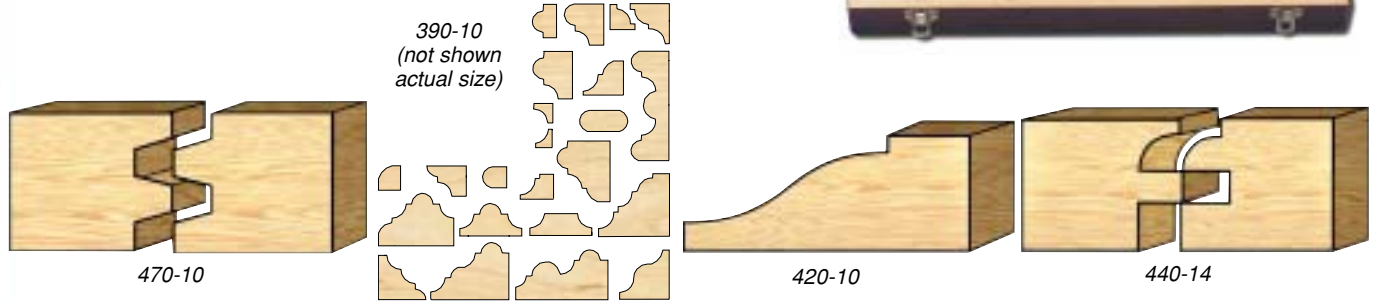
TRS-200

1/2" Shank

Consists of one each of the following:	
Tool No.	Description
470-10	1-7/8" Dia. glue joint, 1-1/2" cutting length
390-10	2-1/4" Dia. multi-form, 1-7/8" cutting length
420-10	2-5/8" Dia. raised panel, 5/8" cutting length
440-14	1-5/8" Dia. concave stile & rail set, 1-1/16" cutting length

Includes a custom-made hardwood storage case.

For detailed tool specifications, see router bit section of catalog.



12-PIECE ROUTER BIT SET

TRS-120

1/4" Shank

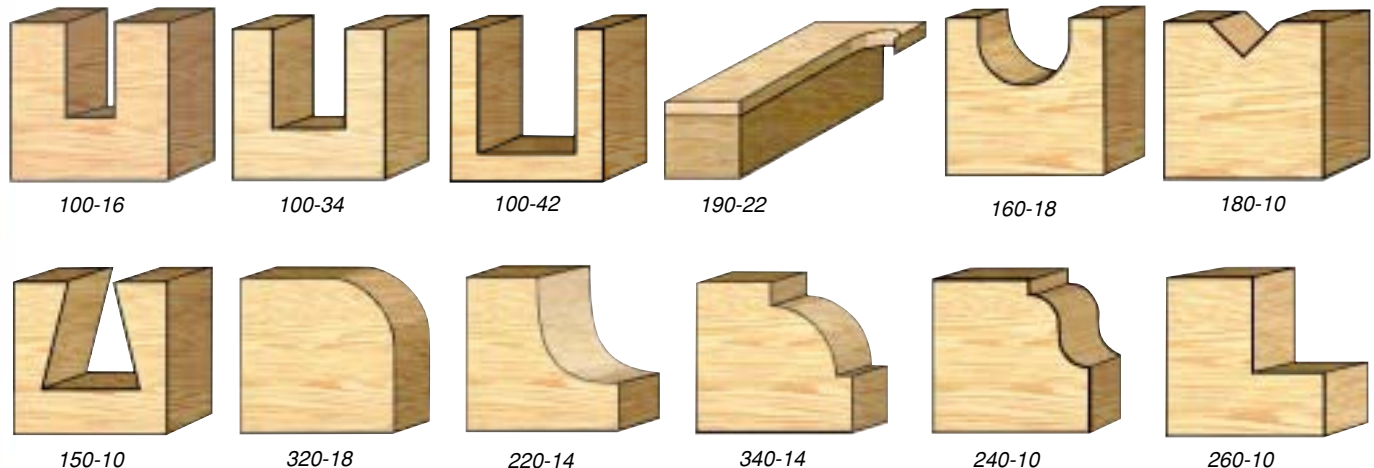
This professional 12-piece router bit set #TRS-120 contains all of the profiles to make your workshop complete.

Consists of one each of the following:	
Tool No.	Description
100-16	1/4" Dia. plunge bit, 3/4" cutting length
100-34	3/8" Dia. plunge bit, 1" cutting length
100-42	1/2" Dia. plunge bit, 1" cutting length
190-22	1/2" Dia. flush Trim, 1/2" cutting length
160-18	1/2" Dia. core box, 3/8" cutting length
180-10	1/4" Radius, 90° 'V' Groove, 7/16" cutting length
150-10	1/2" Dia. 14° dovetail, 1/2" cutting length
320-18	1/4" Radius corner round, 1/2" cutting length
220-14	1-1/8" Dia. cove bit, 1/2" cutting length
340-14	1/4" Radius beading bit, 1/2" cutting length
240-10	5/32" Radius Roman ogee, 15/32" cutting length
260-10	Rabbeting, 3/8" depth of cut

Includes a custom-made hardwood storage case.

For detailed tool specifications, see router bit section of catalog.

Wood samples are shown actual size.



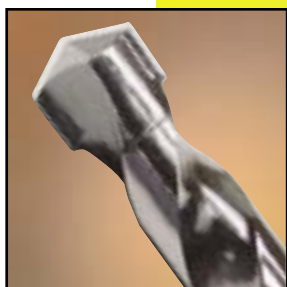
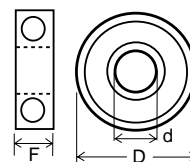
NOTE: All wood samples on this page are shown actual size.

STEEL BALL BEARING GUIDES

Timberline™ uses only the finest **industrial quality precision ball bearings** available. Bearings are double steel-shielded for extra rigidity and to inhibit dust. A special high-performance, high-temperature grease is used for maximum life.

NOTE: Solvents should not be used to clean ball bearings, as this will deteriorate the special grease. 'Frozen' bearings (ones that do not rotate freely), should be replaced immediately.

Part No.	'd' Inside Dia.	'D' Outside Dia.	'F' Face Width
47702	3/16"	3/8"	.124 (1/8")
47706	3/16"	1/2"	.195 (3/16")
47718	3/16"	5/8"	.195 (3/16")
47720	3/16"	3/4"	.280 (9/32")
47701	1/4"	1/2"	.186 (3/16")
47712	1/4"	5/8"	.195 (3/16")
47713	8MM	16MM	5MM
47714	1/4"	3/4"	.280 (9/32")
47708	5/16"	.865 (7/8")	.275 (9/32")
47734	15MM	35MM	11MM
47763	5/16"	1-1/4"	.250



MASONRY-HAMMER DRILL

- Special carbide tips designed to withstand the impact of hammer drills
- Hardened steel body
- For use with hammer drills or rotary drills

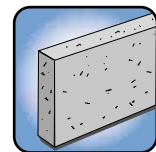


Unit pack: Carded

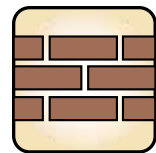
Unit pack: Bulk

Tool No.	Dia.	Length
610-102	1/8"	3"
610-104	5/32"	4"
610-106	3/16"	4"
610-108	1/4"	4"
610-110	5/16"	4"
610-112	3/8"	4"
610-114	1/4"	6"
610-116	5/16"	6"
610-118	3/8"	6"
610-120	7/16"	6"
610-122	1/2"	6"
610-126	9/16"	6"
610-128	5/8"	6"
610-130	3/4"	6"
610-132	7/8"	6"
610-134	1"	6"
610-500	1/4"	13"
610-502	5/16"	13"
610-506	3/8"	13"
610-508	7/16"	13"
610-510	1/2"	13"
610-512	9/16"	13"
610-514	5/8"	13"
610-516	3/4"	13"
610-518	7/8"	13"
610-520	1"	13"

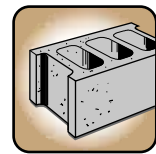
Tool No.	Dia.	Length	Pcs. Per Pk.
610-602	1/8"	3"	10
610-604	5/32"	4"	10
610-606	3/16"	4"	10
610-608	1/4"	4"	10
610-610	5/16"	4"	10
610-612	3/8"	4"	10
610-614	1/4"	6"	10
610-616	5/16"	6"	10
610-618	3/8"	6"	10
610-620	7/16"	6"	10
610-622	1/2"	6"	10
610-626	9/16"	6"	5
610-628	5/8"	6"	5
610-630	3/4"	6"	5
610-632	7/8"	6"	3
610-634	1"	6"	3
610-700	1/4"	13"	10
610-702	5/16"	13"	10
610-706	3/8"	13"	10
610-708	7/16"	13"	10
610-710	1/2"	13"	10
610-712	9/16"	13"	5
610-714	5/8"	13"	5
610-716	3/4"	13"	5
610-718	7/8"	13"	3
610-720	1"	13"	3



CEMENT BOARDS



MASONRY



CINDER BLOCK



ROTARY IMPACT DRILL



ROTARY DRILL

NOTE: All sizes over 3/8" diameter have a reduced shank of 3/8" diameter.

HIGH-SPEED STEEL DRILL

- Precision ground for drilling in wood, plastic and metal
- 135° split point designed for easy starting



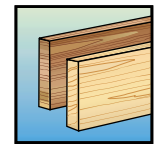
- Drills faster than regular high speed steel drills
- Black oxide finish

Unit pack: Carded

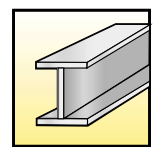
Unit pack: Bulk

Tool No.	Dia.	Pieces Per Pk.
611-100	1/32"	3
611-102	3/64"	3
611-104	1/16"	3
611-106	5/64"	3
611-108	3/32"	3
611-110	7/64"	3
611-112	1/8"	3
611-114	9/64"	1
611-116	5/32"	1
611-118	11/64"	1
611-120	3/16"	1
611-122	13/64"	1
611-124	7/32"	1
611-126	15/64"	1
611-128	1/4"	1
611-130	17/64"	1
611-132	9/32"	1
611-134	19/64"	1
611-136	5/16"	1
611-138	21/64"	1
611-140	11/32"	1
611-142	23/64"	1
611-144	3/8"	1
611-146	25/64"	1
611-148	13/32"	1
611-150	27/64"	1
611-152	7/16"	1
611-154	29/64"	1
611-156	15/32"	1
611-158	31/64"	1
611-162	1/2"	1
611-168	9/16"	1

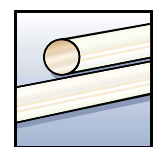
Tool No.	Dia.	Pieces Per Pk.
611-500	1/32"	10
611-502	3/64"	10
611-504	1/16"	10
611-506	5/64"	10
611-508	3/32"	10
611-510	7/64"	10
611-512	1/8"	10
611-514	9/64"	10
611-516	5/32"	10
611-518	11/64"	10
611-520	3/16"	10
611-522	13/64"	10
611-524	7/32"	10
611-526	15/64"	10
611-528	1/4"	10
611-530	17/64"	10
611-532	9/32"	10
611-534	19/64"	5
611-536	5/16"	5
611-538	21/64"	5
611-540	11/32"	5
611-542	23/64"	5
611-544	3/8"	5
611-546	25/64"	5
611-548	13/32"	5
611-550	27/64"	5
611-552	7/16"	5
611-554	29/64"	5
611-556	15/32"	5
611-558	31/64"	5
611-562	1/2"	5
611-568	9/16"	5



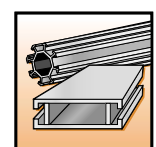
WOOD



METAL



PVC



NON-FERROUS



ROTARY DRILL

NOTE: All sizes over 3/8" diameter have a reduced shank of 3/8" diameter.

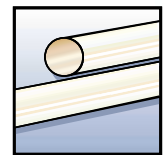
BI-METAL HOLE SAW

- Precision-sharpened teeth for smooth, fast cuts
- Cuts clean holes in wood, plastic, metal, gypsum boards
- Lasts up to 5 times longer than carbon steel hole saws
- Ideal for carpenters, electricians, plumbers

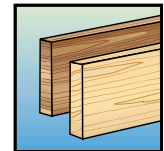


Unit pack: Individually carded

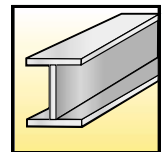
Tool No.	Diameter		Cutting Depth		Use Mandrel
	Inch	MM	Inch	MM	
602-100	5/8"	16MM	2-1/8"	54MM	602-330, 602-334, 602-336
602-102	11/16"	17MM	2"	51MM	602-330, 602-334, 602-336
602-104	3/4"	19 MM	2"	51MM	602-330, 602-334, 602-336
602-106	13/16"	21MM	2"	51MM	602-330, 602-334, 602-336
602-108	7/8"	22MM	2"	51MM	602-330, 602-334, 602-336
602-110	15/16"	24MM	2"	51MM	602-330, 602-334, 602-336
602-112	1"	25MM	2"	51MM	602-330, 602-334, 602-336
602-114	1-1/16"	27MM	2"	51MM	602-330, 602-334, 602-336
602-116	1-1/8"	29MM	2"	51MM	602-330, 602-334, 602-336
602-118	1-3/16"	30MM	2"	51MM	602-330, 602-334, 602-336
602-120	1-1/4"	32MM	2"	51MM	602-332, 602-338
602-122	1-5/16"	33MM	2"	51MM	602-332, 602-338
602-124	1-3/8"	35MM	2"	51MM	602-332, 602-338
602-126	1-7/16"	37MM	1-3/4"	44MM	602-332, 602-338
602-128	1-1/2"	38MM	1-3/4"	44MM	602-332, 602-338
602-130	1-9/16"	40MM	1-3/4"	44MM	602-332, 602-338
602-132	1-5/8"	41MM	1-3/4"	44MM	602-332, 602-338
602-134	1-11/16"	43MM	1-3/4"	44MM	602-332, 602-338
602-136	1-3/4"	44MM	1-3/4"	44MM	602-332, 602-338
602-138	1-7/8"	48MM	1-3/4"	44MM	602-332, 602-338
602-140	2"	51MM	1-3/4"	44MM	602-332, 602-338
602-142	2-1/16"	52MM	1-3/4"	44MM	602-332, 602-338
602-144	2-1/8"	54MM	1-3/4"	44MM	602-332, 602-338
602-146	2-1/4"	57MM	1-3/4"	44MM	602-332, 602-338
602-148	2-5/16"	59MM	1-3/4"	44MM	602-332, 602-338
602-150	2-3/8"	60MM	1-3/4"	44MM	602-332, 602-338
602-152	2-1/2"	64MM	1-3/4"	44MM	602-332, 602-338
602-154	2-9/16"	65MM	1-3/4"	44MM	602-332, 602-338
602-156	2-5/8"	67MM	1-3/4"	44MM	602-332, 602-338
602-158	2-3/4"	70MM	1-3/4"	44MM	602-332, 602-338
602-160	2-7/8"	73MM	1-3/4"	44MM	602-332, 602-338
602-162	3"	76MM	1-3/4"	44MM	602-332, 602-338
602-164	3-1/8"	79MM	1-3/4"	44MM	602-332, 602-338
602-166	3-1/4"	83MM	1-3/4"	44MM	602-332, 602-338
602-168	3-3/8"	86MM	1-3/4"	44MM	602-332, 602-338
602-170	3-1/2"	89MM	1-3/4"	44MM	602-332, 602-338
602-172	3-5/8"	92MM	1-3/4"	44MM	602-332, 602-338
602-174	3-3/4"	95MM	1-3/4"	44MM	602-332, 602-338
602-176	3-7/8"	99MM	1-3/4"	44MM	602-332, 602-338
602-178	4"	102MM	1-3/4"	44MM	602-332, 602-338
602-180	4-1/8"	105MM	1-3/4"	44MM	602-332, 602-338
602-182	4-1/2"	114MM	1-3/4"	44MM	602-332, 602-338
602-184	4-3/4"	121MM	1-3/4"	44MM	602-332, 602-338
602-186	5"	127MM	1-3/4"	44MM	602-332, 602-338
602-188	6"	152MM	1-3/4"	44MM	602-332, 602-338



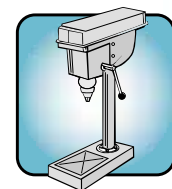
PVC



WOOD



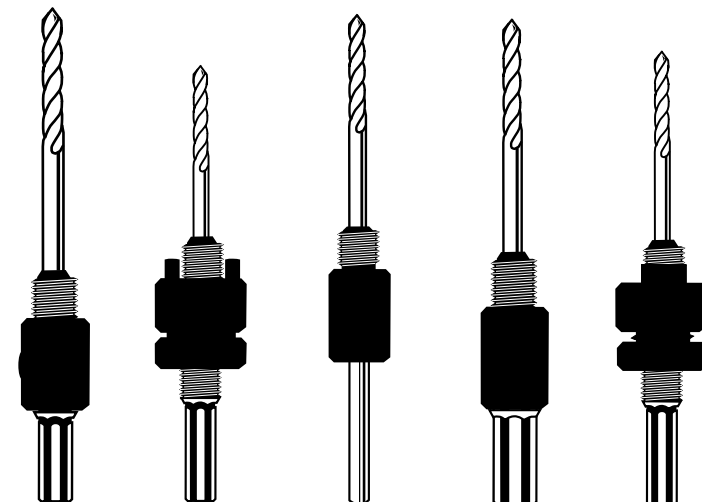
METAL



DRILL PRESS



ROTARY DRILL



602-330

602-332

602-334

602-336

602-338

See next page for Mandrel details.



Bi-Metal Hole Saw

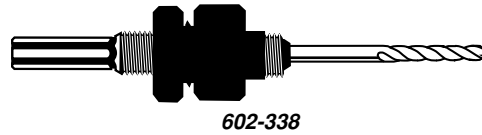
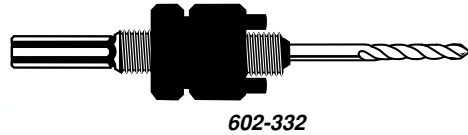
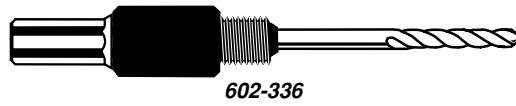
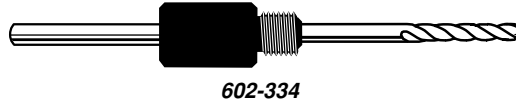
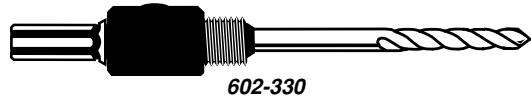
BI-METAL HOLE SAW MANDRELS



- To be used in conjunction with our bi-metal hole saws
- 1/4" high speed steel pilot drill included

Unit pack: Individually carded

Tool No.	Fits Hole Saw Size	Shank Size	Chuck Size
602-330	9/16"-1-3/16"	3/8" Hex	3/8"
602-332	1-1/4"-6"	7/16" Hex	1/2"
602-334	9/16"-1-3/16"	1/4" Round	1/4"
602-336	9/16"-1-3/16"	7/16" Hex	1/2"
602-338	1-1/4"-6"	3/8" Hex	3/8"



BI-METAL REPLACEMENT PILOT DRILLS For Bi-Metal Hole Saw Mandrels



Unit Pack: Individually carded

Tool No.	Size	Fits Mandrel
602-200	1/4" x 4"	602-334
602-202	1/4" x 3"	602-330, 602-332, 602-336, 602-338

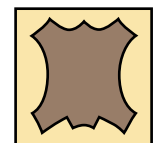
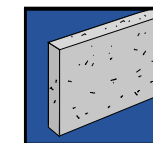
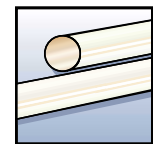
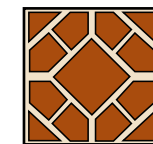
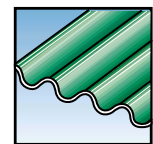
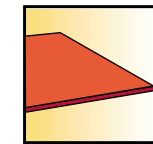


SCORING TOOL - Dual Carbide Tipped



- Dual Carbide Tipped
- Reversible Blade (Stored in the handle)
- Three Scoring Tips, two for cutting/scoring & the third for chiseling
- Re-Sharpenable Carbide Tips

Tool No. 3500



AUGER

Auger bits require little feed pressure because the threaded lead screw will pull the bit into the cut. For deep holes the auger clears its chips well and the screw point prevents the bit from wandering. Packaged in vinyl pouches.

9" Long Auger Bits

Unit pack: each

Tool No.	Diameter	Tool No.	Diameter
605-100	1/4"	605-180	3/4"
605-110	5/16"	605-190	13/16"
605-120	3/8"	605-200	7/8"
605-130	7/16"	605-210	15/16"
605-140	1/2"	605-220	1"
605-150	9/16"	605-230	1-1/8"
605-160	5/8"	605-240	1-1/4"
605-170	11/16"	605-250	1-3/8"

Also available in quick release see page 42.

18" Long Auger Bits

Unit pack: each

Tool No.	Diameter
605-500	3/8"
605-510	1/2"
605-520	9/16"
605-530	5/8"
605-540	11/16"
605-550	3/4"
605-560	13/16"
605-570	7/8"
605-580	15/16"
605-590	1"
605-600	1-1/8"
605-610	1-1/4"
605-620	1-3/8"



SPADE BITS WITH SPURS

Precision ground and hardened steel spade bits for general purpose drilling of hard and soft woods and wood by-products. Available in 21 different sizes from 1/4" through 1-1/2". Available in 6" and 16" lengths with 1/4" shank. Clamshell packed.

6" Long Spade Bits

Unit pack: 10 pieces

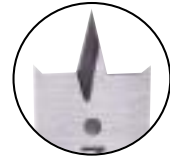
Tool No.	Diameter	Tool No.	Diameter
604-100	1/4"	604-550	15/16"
604-150	5/16"	604-600	1"
604-200	3/8"	604-610	26MM
604-240	7/16"	604-620	1-1/16"
604-250	1/2"	604-650	1-1/8"
604-270	5/8"	604-680	1-3/16"
604-300	9/16"	604-700	1-1/4"
604-350	11/16"	604-730	1-3/8"
604-400	3/4"	604-740	35MM
604-450	13/16"	604-750	1-1/2"
604-500	7/8"		

Also available in quick release see page 42.

16" Long Spade Bits

Unit pack: 10 pieces

Tool No.	Diameter
604-810	1/4"
604-820	3/8"
604-830	1/2"
604-840	5/8"
604-850	3/4"
604-860	7/8"
604-870	1"



SPADE BIT SET-6 PIECE

Unit pack: Each in vinyl pouch.

Tool No.	Description
604-800	6 piece spade bit set includes (3/8", 1/2", 5/8", 3/4", 7/8" & 1")



SPADE BIT EXTENSIONS

Unit pack: Each. Packaged in a vinyl pouch.

Tool No.	Description
604-760	6" spade bit extension, 1/4" shank
604-770	12" spade bit extension, 1/4" shank



LOCKSET INSTALLATION KITS

Includes 2-1/8" hole saw with 3/8" shank arbor and either 7/8" or 1" spade bit. For installation of 2-1/8" locksets. Instructions included. Clamshell Packed.

Unit pack: 5 pieces

Tool No.	Description
650-100	3 piece kit with 7/8" spade bit
650-200	3 piece kit with 1" spade bit



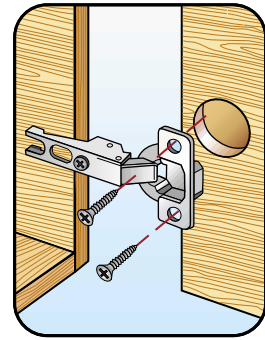
HINGE BORING (EUROPEAN)

57MM Long • 10MM Shank • 2 Wing with Spurs
Carbide Tipped With 10MM Shank



For European style concealed hinges.
Includes side cutting "spurs" for fast, clean boring.
Economically priced. Carded.

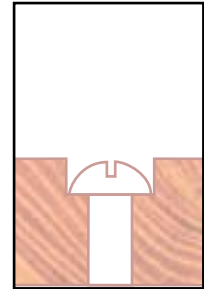
Tool No.	Diameter	Shank	Overall Length
620-120	12MM	10MM	57MM
620-150	15MM	10MM	57MM
620-180	18MM	10MM	57MM
620-200	20MM	10MM	57MM
620-220	22MM	10MM	57MM
620-250	25MM	10MM	57MM
620-260	26MM	10MM	57MM
620-300	30MM	10MM	57MM
620-350	35MM	10MM	57MM



FLAT BOTTOM COUNTERBORES

Up-shear Design • Drill Bits Included • Carbide Tipped

Tool No.	Drill Dia.		Wood Screw Size	Counterbore Dia.		Shank		Replacement Drill Bit
	Inch	MM		Inch	MM	Inch	MM	
630-100	1/8"	(3.2MM)	4-6	3/8"	(9.5MM)	5/16"	(8.0MM)	630-102
630-200	5/32"	(4.0MM)	6-8	.394	(10.0MM)	5/16"	(8.0MM)	630-202
630-300	11/64"	(4.4MM)	8-9	.394	(10.0MM)	5/16"	(8.0MM)	630-302
630-400	3/16"	(4.8MM)	10	1/2"	(12.7MM)	3/8"	(9.5MM)	630-402
630-500	7/32"	(5.6MM)	12	1/2"	(12.7MM)	3/8"	(9.5MM)	630-502
630-600	15/64"	(6.0MM)	14	1/2"	(12.7MM)	3/8"	(9.5MM)	630-602
630-700	1/4"	(6.3MM)	16	1/2"	(12.7MM)	3/8"	(9.5MM)	630-702



Unit pack: Each, carded.

Replacement set screws (2 required per tool) Part No. 67092

STRAIGHT WOOD PLUG CUTTERS

Tool No.	Diameter	Shank	Overall Length
607-100	1/4"	3/8"	2"
607-110	3/8"	3/8"	2"
607-120	1/2"	3/8"	2"
607-130	5/8"	3/8"	2"
607-500	8pc. Set In Wood Box		

Unit pack: Each, carded.

TAPERED WOOD PLUG CUTTERS

Quality wood cutters for making smooth tapered plugs.

Tool No.	Diameter	Shank	Overall Length
607-300	1/4"	3/8"	2"
607-310	3/8"	3/8"	2"
607-320	1/2"	3/8"	2"
607-330	5/8"	3/8"	2"

Unit pack: Each, carded.



607-500
8pc. Set In Wood Box
Includes Both Straight And
Tapered Plug Cutters.

MORTISING CHISELS & BITS

Used in drill press mortising attachments. Includes both square chisel & special drill bit.

Tool No.	D	B	d	L
609-100	1/4"	1-3/4"	19MM	8-1/4"
609-110	5/16"	1-3/4"	19MM	8-1/4"
609-120	3/8"	2-7/8"	19MM	8-1/4"
609-130	1/2"	2-7/8"	19MM	8-1/4"
609-140	5/8"	2-7/8"	19MM	8-1/4"

Unit pack: Each, carded.



FORSTNER

Especially designed to drill flat holes in soft and hard woods using portable or stationary equipment. Forstner Bits are good at drilling severe angles and for partial angled holes. All off-angled and overlapping holes cut with a forstner bit should be drilled on a drill press. Finished hole will show a small center hole at the bottom of the hole. Clamshell packed for hanging display.

Unit pack: Each.

Tool No.	Cutting Diameter	Shank Diameter	Overall Length	Tool No.	Cutting Diameter	Shank Diameter	Overall Length
600-100	1/4"	5/16"	3"	600-190	1-3/8"	3/8"	3-1/2"
600-110	3/8"	5/16"	3-1/2"	600-200	35MM	3/8"	3-1/2"
600-120	1/2"	5/16"	3-1/2"	600-210	1-1/2"	3/8"	3-1/2"
600-130	5/8"	5/16"	3-1/2"	600-220	1-5/8"	3/8"	3-1/2"
600-140	3/4"	3/8"	3-1/2"	600-230	1-3/4"	3/8"	3-1/2"
600-150	7/8"	3/8"	3-1/2"	600-240	1-7/8"	3/8"	3-1/2"
600-160	1"	3/8"	3-1/2"	600-250	2"	3/8"	3-1/2"
600-170	1-1/8"	3/8"	3-1/2"	600-260	2-1/8"	3/8"	3-1/2"
600-180	1-1/4"	3/8"	3-1/2"	660-300	Wooden Box Only		



CARBIDE TIPPED FORSTNER

Carbide tipped forstner bits were designed so the rim remains extremely sharp, especially at the leading edge. It is here that the rim stays engaged in the cut so the bit won't drift laterally. This prevents tearout at the beginning of the cut to give a smooth clean cut. The finished hole will show a small center hole at the bottom of the hole. Clamshell packed for hanging display.

Unit pack: Each.

Tool No.	Cutting Diameter	Shank Diameter	Overall Length	Tool No.	Cutting Diameter	Shank Diameter	Overall Length
660-100	1/2"	3/8"	3-1/2"	660-180	1-1/2"	3/8"	3-1/2"
660-110	5/8"	3/8"	3-1/2"	660-190	1-5/8"	3/8"	3-1/2"
660-120	3/4"	3/8"	3-1/2"	660-200	1-3/4"	3/8"	3-1/2"
660-130	7/8"	3/8"	3-1/2"	660-210	1-7/8"	3/8"	3-1/2"
660-140	1"	3/8"	3-1/2"	660-220	2"	3/8"	3-1/2"
660-150	1-1/8"	3/8"	3-1/2"	660-230	2-1/8"	3/8"	3-1/2"
660-160	1-1/4"	3/8"	3-1/2"	660-300	Wooden Box Only		
660-165	1-3/8"	3/8"	3-1/2"	660-500	14pc. set Carbide Tipped		
660-170	35MM	3/8"	3-1/2"				



660-500
14pc. Carbide Tipped Set

BRAD POINT DRILL

Brad Point drill bits are the bits of choice for precision wood cutting. They overcome the tendency to walk at the start of a hole and reduce tearout at the perimeter of the hole. The bits are made from high speed steel. They are fully ground and polished to give superior chip clearance.

We carry an extensive line of individual sizes ranging from 1/16" to 1". Our 7 piece set (606-200) is available with 7 of the most popular sizes 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2".

Unit pack: Each, carded.

Tool No.	Cutting Diameter	Shank Diameter	Overall Length	Tool No.	Cutting Diameter	Shank Diameter	Overall Length
606-100	1/16"	1/16"	1-7/8"	606-134	21/64"	21/64"	4-5/8"
606-102	5/64"	5/64"	2"	606-136	11/32"	11/32"	4-3/4"
606-104	3/32"	3/32"	2-1/4"	606-138	23/64"	23/64"	4-7/8"
606-106	7/64"	7/64"	2-5/8"	606-140	3/8"	3/8"	5"
606-108	1/8"	1/8"	2-3/4"	606-142	25/64"	3/8"	5-1/8"
606-110	9/64"	9/64"	2-7/8"	606-144	13/32"	3/8"	5-1/4"
606-112	5/32"	5/32"	3-1/8"	606-146	27/64"	3/8"	5-3/8"
606-114	11/64"	11/64"	3-1/4"	606-148	7/16"	3/8"	5-1/2"
606-116	3/16"	3/16"	3-1/2"	606-150	29/64"	3/8"	5-5/8"
606-118	13/64"	13/64"	3-5/8"	606-152	15/32"	3/8"	5-3/4"
606-120	7/32"	7/32"	3-3/4"	606-154	31/64"	3/8"	5-7/8"
606-122	15/64"	15/64"	3-7/8"	606-156	1/2"	3/8"	6"
606-124	1/4"	1/4"	4"	606-158	5/8"	1/2"	6-5/8"
606-126	17/64"	17/64"	4-1/8"	606-160	3/4"	1/2"	7-3/4"
606-128	9/32"	9/32"	4-1/4"	606-162	7/8"	1/2"	8-1/4"
606-130	19/64"	19/64"	4-3/8"	606-164	1"	1/2"	8-3/4"
606-132	5/16"	5/16"	4-1/2"	606-200	7pc. Brad Point Drill Set In Metal Box		



606-200
7pc. Brad Point
Drill Bit Set



Quick Release Accessories

All accessories have 1/4" hex shank for "quick-release" type chucks.

QUICK RELEASE KEYLESS CHUCK

A great product featuring a patented quick-release mechanism that makes instant tool changes simple and fast. Works with our countersink and drill bit accessories or any 1/4" hex power bit. Solid steel construction, knurled locking collar and no-slip 3/8" hex shank to fit in any drill, cordless drill or drill press with 3/8" or larger chuck or keyless chuck. Made in U.S.A. Clamshell packed.

Tool No.	Shank
608-100	3/8"

DRILL ADAPTERS WITH DRILL BITS

Includes HSS twist drill bit. You can also use these adapters with brad point, tapered, split point and any other type of drill bit.

Tool No.	Drill Bit Dia.	Overall Length	Replacement Drill Bit
608-200	5/64"	3-3/4"	630-001
608-202	3/32"	3-3/4"	630-002
608-204	7/64"	3-3/4"	630-098
608-206	1/8"	3-3/4"	630-102
608-208	9/64"	3-3/4"	630-802
608-210	5/32"	3-3/4"	630-202
608-212	11/64"	3-3/4"	630-302
608-214	3/16"	3-3/4"	630-402
608-216	7/32"	4"	630-502
608-218	15/64"	4"	630-602
608-220	1/4"	4"	630-702

DRILL ADAPTERS WITH TAPER POINT DRILLS



With Quick Change Adapter

Tool No.	Drill Bit Dia. MM	Drill Bit Dia. Inch	Overall Length	Replacement Drill Bit
608-260	2MM	5/64"	3"	630-260
608-262	2.4MM	3/32"	3-9/32"	630-262
608-264	2.8MM	7/64"	3-9/32"	630-264
608-266	3.2MM	1/8"	3-3/8"	630-266
608-268	3.6MM	9/64"	3-7/16"	630-268
608-270	4.0MM	5/32"	3-7/16"	630-270
608-272	4.4MM	11/64"	4"	630-272
608-274	4.8MM	3/16"	4-9/32"	630-274
608-276	5.6MM	7/32"	5"	630-276
608-278	6.3MM	1/4"	5-5/16"	630-278

STEP DRILLS

RTA furniture step drill. Used for drilling pilot hole, clearance hole and countersinking.

Tool No.	Drill Bit Dia.	RTA Screw Size	Countersink Dia.
608-150	3.5MM	5.0MM	7.0MM
608-152	5.0MM	7.0MM	10.0MM

Replacement 3.5mm HSS slow spiral drill bit, 2-3/4" long, #55104.
 Replacement 5.0mm HSS slow spiral drill bit, 3-7/16" long, #55105.
 Replacement #10-24 set screw, #67092 (requires #5000 3/32" hex key.)

*Recommended wood screw sizes represent general purpose applications. Harder or softer materials may require different size pilot holes.

CARBIDE TIPPED COUNTERSINKS

Drill pilot hole and tapered countersink for wood screws. Carbide tipped for long lasting results in hard wood, plywood, plastics, etc.

Tool No.	*Wood Screw Size	Drill Bit Dia.	Countersink Dia.
608-110	#4	5/64"	3/8"
608-112	#6	3/32"	3/8"
608-114	#8	7/64"	3/8"
608-116	#10	1/8"	3/8"
608-118	#12	9/64"	1/2"

DEPTH STOPS FOR COUNTERSINKS

Adjustable to control the depth of countersinks listed to the left.

Tool No.	Fits The Following Countersinks:
608-120	608-110, 608-112, 608-114, 608-116
608-122	608-118

CARBIDE TIPPED COUNTERBORES

Flat bottom counterbores for using round head screws, hex bolts, etc. Includes pilot drill.

Tool No.	Drill Bit Dia.	Counterbore Dia.
608-130	5/32"	3/8"
608-132	3/16"	3/8"
608-134	3/16"	1/2"
608-136	1/4"	1/2"
608-138	1/4"	5/8"

CARBIDE TIPPED BORING

For metric European hinges. Carded.

Tool No.	Dia.	Shank Dia.	Length
608-170	15MM	1/4"	55MM
608-172	20MM	1/4"	55MM
608-174	25MM	1/4"	55MM
608-176	26MM	1/4"	55MM
608-178	30MM	1/4"	55MM
608-180	35MM	1/4"	55MM

PLUG CUTTERS

Self ejecting style for making your own wood plugs. 3/8" size is #4 through #10 screws and 1/2" is for #12 screws.

Tool No.	Diameter
608-250	3/8"
608-252	10MM
608-254	1/2"

CARBIDE TIPPED GLASS AND TILE DRILLS



For use in drill presses and portable drills. Spear-point, ground for long life. Quick Change Shank for Quick Release System.

Tool No.	Drill Bit Dia.	Inch
608-290	3MM	1/8"
608-292	4MM	5/32"
608-294	5MM	3/16"
608-296	6MM	1/4"
608-298	8MM	5/16"
608-300	10MM	3/8"
608-302	12MM	1/2"

NOTE: Packaging for all items on this page is carded.

The Quick Release Drill System

Quick Release System

Timberline™ Quick Release



SELF CENTERING DRILL BIT GUIDES

Spring-loaded end for locating hinge screw holes. Includes HSS twist drill bit. Bright plated finish.

Tool No.	Drill Bit Size	Replacement Drill Bit
608-520	5/64"	630-001
608-522	7/64"	630-098
608-524	9/64"	630-302
608-526	11/64"	630-302

SOCKET ADAPTERS

Converts your drill into a power nut setter. Carded.

Tool No.	"D" Diameter	Length
608-550	1/4"	2-3/8"
608-552	3/8"	2-3/8"
608-554	1/2"	2-3/8"

FACE FRAME COUNTERBORE

Carbide tipped w/HSS drill. Used for making "pocket holes". Packaged in plastic hanging tube.

Tool No.	Description	Dia.	Length
608-160	Counter Bore #1	3/8"	4"
608-162	#29 HSS Fishtail Drill Bit	.136"	-

CEILING TILE HANGER

Unique tool for fastening special screws used in the installation of hanging ceiling grids. Carded.

Tool No.	Diameter	Shank Dia.
608-556	1/4"	1/4"
608-558	5/16"	1/4"

MAGNETIC NUT SETTERS

Universal 1/4" shank fits all drill and drivers. Used for power driving hex head screws, bolts and nuts. Carded.

Tool No.	Diameter	Length
608-560	1/4"	1-5/8"
608-562	1/4"	2-9/16"
608-564	5/16"	1-5/8"
608-566	5/16"	2-9/16"
608-568	3/8"	1-3/4"
608-570	3/8"	2-9/16"
608-572	7/16"	1-3/4"
608-574	7/16"	2-9/16"
608-576	1/2"	1-3/4"
608-578	1/2"	2-9/16"

MAGNETIC DRIVE GUIDE

Retracting screw holder for driving screws. 1/4" hex head fits all power driving bit tips. Carded.

Tool No.	Length
608-510	80MM
608-512	120MM

MAGNETIC BIT HOLDER

Accommodates all 1/4" hex insert bits for all driver/drills. Carded.

Tool No.	Length
608-500	2-1/4"
608-502	3"
608-504	4"

All accessories have 1/4" hex shank for "quick-release" type chucks.



SPADE BITS WITH SPURS

Precision ground and hardened steel spade bits for general purpose drilling of hard & softwood and wood by-products.

Tool No.	Diameter	Overall Length
608-400	3/8"	6"
608-410	1/2"	6"
608-420	5/8"	6"
608-430	3/4"	6"
608-440	7/8"	6"
608-450	1"	6"



AUGER BITS

Quality wood cutting auger bits for cutting with the quick release system.

Tool No.	Diameter	Overall Length
608-340	3/8"	4"
608-350	1/2"	4"
608-360	5/8"	4"
608-370	3/4"	4"
608-380	7/8"	4"
608-390	1"	4"



SLOTTED SCREW BIT TIPS

Packed 5 pieces per card.

Tool No.	Screw Size	Overall Length
608-610	#6	1"
608-612	#8	1"
608-614	#10	1"
608-616	#12	1"
608-640	#6	2"
608-642	#8	2"
608-644	#10	2"
608-646	#12	2"



PHILLIPS SCREW BIT TIPS

Packed 5 pieces per card.

Tool No.	Screw Size	Overall Length
608-600	#0	1"
608-602	#1	1"
608-604	#2	1"
608-606	#3	1"
608-630	#1	2"
608-632	#2	2"
608-634	#3	2"



Sample: 5 pieces per card.

PHILLIPS SCREW BIT TIPS

Bulk

Tool No.	Screw Size	Overall Length	Pieces Per Jar
608-633	#2	2"	150
608-637	#3	2"	150
608-690	#2	1"	250



HEX TIP BITS

Packed 5 pieces per card.

Tool No.	Dia.	Overall Length
608-660	1/16"	1"
608-662	3/32"	1"
608-664	1/8"	1"



MAGNETIC NUT SETTERS

Bulk

Tool No.	Overall Length	Pieces Per Jar
608-563	1/4" x 2-9/16"	50
608-567	5-1/6" x 2-9/16"	50
608-571	3/8" x 2-9/16"	50



SQUARE TIP BITS

Packed 5 pieces per card.

Tool No.	Screw Size	Overall Length
608-620	#1	1"
608-622	#2	1"
608-650	#1	2"
608-652	#2	2"
608-654	#3	2"



SQUARE TIP BITS

Bulk

Tool No.	Screw Size	Overall Length	Pieces Per Jar
608-623	#2	2"	150



All accessories have 1/4" hex shank for "quick-release" type chucks.

11 PIECE DRILL & DRIVE COUNTERSINK SET

This set includes 4 tool-steel countersinks designed for No. 6, 8, 10, 12 screws and 3/32", 7/64", 1/8" and 9/64" drill bits. Also included are 3 phillips screw tips (No. 0, 1, 2), 2 slotted screw tips and a quick release chuck*. Clamshell packed.



Tool No.
608-530 11pc. Set With Case

*This quick release chuck is not sold separately - only as part of a set.

STEEL HAND SCRAPERS

5" x 3"/Set of 3

Contains three scrapers, one each of three different thicknesses. Used for wood and glue scraping, etc. To sharpen, use a hard steel burnisher on the edge(s). Skin-packed for hanging display.



Tool No. 4010

Unit Pack: 10

E-Z QUICK CHANGE BIT SET & CASE

This craftsmans' clip-on case includes 9 of the most popular screw tips: phillips No. 0, 1, 2; hex 1/16", 3/32", 1/8" slotted No. 6, 8, 10 and a quick release chuck*. Ideal for cabinet makers, contractors and DIY. Carded.

Tool No.
608-532 11pc. Set With Case

*This quick release chuck is not sold separately - only as part of a set.



BEVEL EDGE WOOD CHISEL SETS

The bevel edge chisel sets are made of high carbon tool-steel and treated with black-oxide to prevent rust. Each chisel tip is hardened, tempered, ground and honed to a precision finish. Handles are made of high impact, polypropylene plastic. Overall length: 8"



No. 3370
Free Oil
Stone
Sharpener
with 8-Piece
Set



No. 3380

Made in Sheffield, England

Tool No. 3380, 3 Piece Set

Includes one of each size: 1/2", 3/4", 1"

Unit Pack: Each clamshell packed.

Tool No. 3370, 8 Piece Set

Includes one of each size: 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1"

Unit Pack: Each plastic case.

CARPENTER PENCILS

Blister packed for hang-up display. Each package contains 6 pencils.

Tool No. AL-200

Unit Pack: 12 pcs.



WALLBOARD SAW

6" Blade/7 Point

General-purpose wallboard saw for cutting sheetrock, gypsum board, etc. Saw features a 6" long pointed blade for plunge-type cuts and close-quarter work. Natural hardwood handle, 11" overall length. Skin-packed for hanging display.



Minimum order: 12 pieces.

Tool No. 1012

Unit Pack: 12

DOUBLE EDGE LAMINATE/VENEER TRIMMER

Very useful shop tool for bevel trimming all types of thin laminates, thin veneers and edgebanding. Will bevel trim both top and bottom of material ranging from 1/2" to 1" thick. Features include adjustable and replaceable steel knives. Packaging - carded.



Tool No. 3400

Unit Pack: Each carded.

6 Piece Replacement Knife Set Tool No. 3402



POCKET LEVEL WITH ANGLE FINDER

This 3 vial magnetic pocket level has special "V" grooved magnetic base for use on pipe work and has a rotating angle finder, with both horizontal and vertical vials. Carded.

Tool No. 1002

Made in Sheffield, England



POCKET LEVEL

With Detachable Mini Level

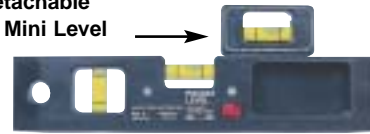
This 3 vial magnetic pocket level has a special "V" grooved magnetic base for use on pipe work and has a detachable magnetic mini level which can be used separately on building lines or pipes. Accuracy is 1MM/to 1 meter. Carded.

Tool No. 1001

Made in Sheffield, England



Handy Detachable Magnetic Mini Level



Base has a magnetic "V" good for leveling pipes.

FOLDING ROLLER WORK STAND

Easy to assemble and very useful for supporting long stock, especially infeed and outfeed for saws, jointers, planers, etc. Height adjusts from 25-1/2" to 42" tall instantly. 1-3/8" diameter roller x 12-1/2" long.

Shipping Weight: 14lbs.



Part #RS-870



Part #RS-872

FOLDING ROLLER BALL WORK STAND

Easy to assemble and very useful for supporting long stock, especially infeed and outfeed for saws, jointers, planers, etc. Height adjusts from 25-3/4" to 42" tall instantly. 11 Individual 3/4" Diameter Balls x 17" long.

Shipping Weight: 14lbs.

ROLLER WORK STANDS



Part #RS-874



Part #RS-875

Very useful for supporting long stock, especially infeed & outfeed for saws, jointers, planers, etc. Constructed of heavy duty steel, ball bearing rollers & cast iron base. Roller size: 2-1/4" x 15-3/4" Height adjustment: 26-1/4" to 45-3/4"

Part No.	# Rollers	Distance Between Rollers	Shipping Weight
RS-874	1	-	19 lbs.
RS-875	5	4-1/2"	34 lbs.



Part No. 420-100

DELUXE ROUTER TABLE WITH RIGID STEEL BASE

- Includes: 1) Router table top
2) Router table fence
3) Floor stand (heavy duty steel legs)

1. Router table top: 24" x 36" and made from heavy 1" thick MDF with a high pressure laminate on top and bottom surfaces. The acrylic insert is 3/8" thick to prevent sagging, and the 8" x 11-3/4" size makes it easy to remove for router adjustments. Each plate is pre-bored with a 1-3/4" bit hole. 3/8" x 3/4" miter gauge slot. Height is 32-1/2".

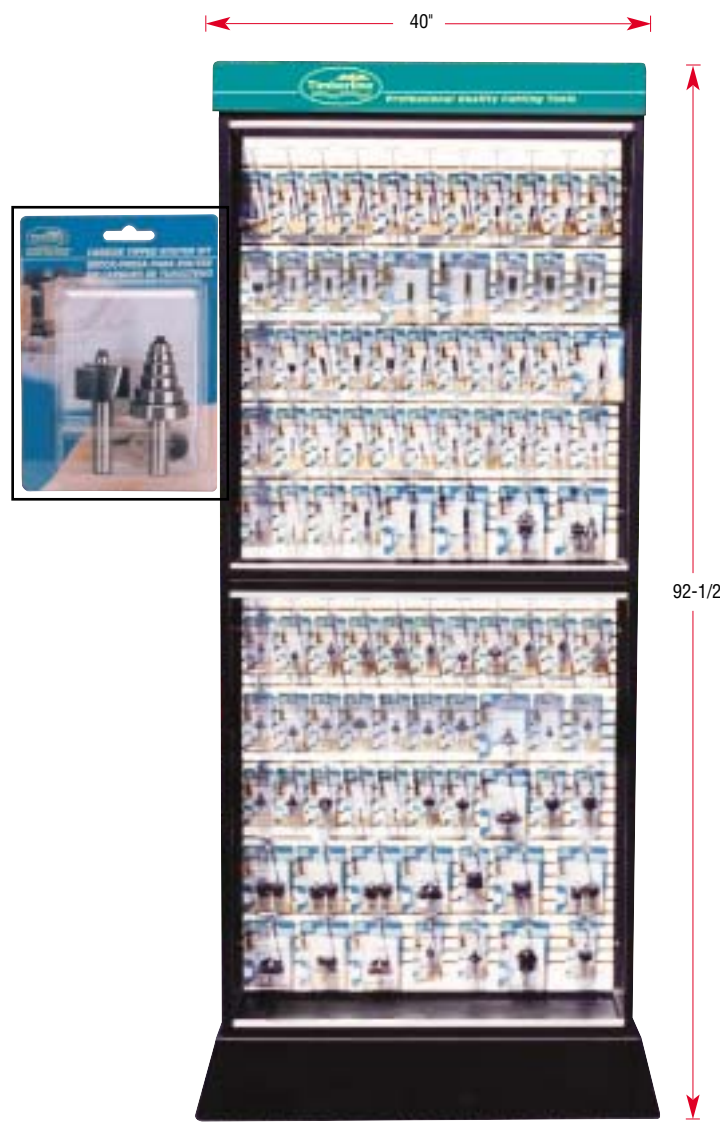
2. Router table fence: 36" long. Our fence is made of strong 3" x 3" x 1/4" extruded aluminum angle with a 3/4" hardwood subfence and features a large bit recess, with a fluorescent retractable bit guard and a 2-1/2" vacuum attachment.

3. Table leg assembly: Heavy duty steel leg set. Leg level adjusters and assembly hardware are included. Assembly required.

Total Shipping Weight: 55lbs.

Introducing

Displays

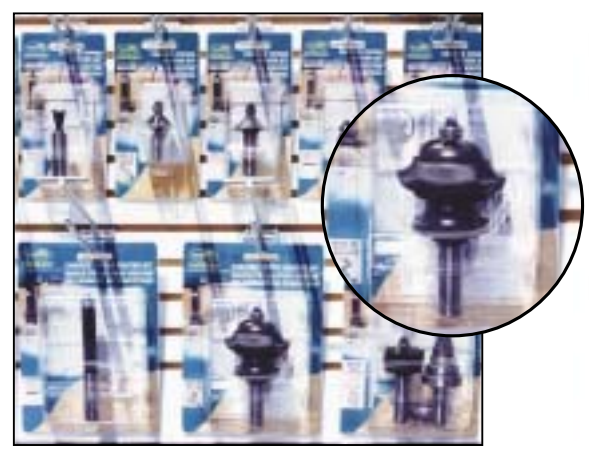


TLD-20 DISPLAY
Router Bit Display

NEW

Free standing metal frame fixture with acrylic side panels and lockable tempered glass sliding doors. Will accommodate 106 different sku's.

- Free standing metal & acrylic fixture
- Dimensions 40" wide x 92-1/2" long x 11" deep
- 106 different sku's



TLD-18 DISPLAY

NEW

Power Tool Accessories Display

Heavy-duty, black powder coated wire rack with three adjustable tiers. Can be used on either pegboard or slatwall. Will accommodate 18-24 different sku's. Several programs available for forstner bits, brad point bits, spade bits (shown), auger bits and quick change accessories. Includes 24 adjustable 4" long hooks, 24 re-order cards, 24 labels & label holders and colorful reversible header sign (one side Timberline™, 2nd side Amana®).

25-1/4"



TLD-24 DISPLAY



Heavy-duty, black powder coated wire rack with locking, hinged door. Can be used on either pegboard or slatwall. Will accommodate up to six each of 24 different Sku's. Includes one padlock with two keys and colorful, reversible header sign (one side Timberline™, 2nd side Amana Tool®). Also includes 24 re-order cards and three 1" high metal strips for bar coding/pricing info. Special hardware included to stack two units together.



TLD-18 DISPLAY

Power Tool Accessories Display



Heavy-duty, black powder coated wire rack with three adjustable tiers. Can be used on either pegboard or slot-wall. Will accommodate 18-24 different sku's. Several programs available for forstner bits, brad point bits, spade bits, auger bits and quick change accessories (shown). Includes 24 adjustable 4" long hooks, 24 re-order cards, 24 labels & label holders and colorful reversible header sign (one side Timberline™, 2nd side Amana Tool®).



TLD-16 DISPLAY

Timberline™ “TOWER OF TEETH” will help you take a bite out of your competition. Display utilizes highly elaborate product information graphics and is complete with 82 pieces of selling stock. Within two square feet of floor space, you can effectively service every popular circular saw (both portable & stationary) on the market today. Top and bottom sections of display rotate independently on ball bearing swivels.



TLD-3/TLD-6 DISPLAY

TLD-3/TLD-6 Saw Blade Racks

Heavy duty black powder-coated wire racks available in 3-hook and 6-hook versions. Both feature a 2-color header sign and may be used on pegboard, slat-wall or freestanding on your sales counter. Will accommodate all portable series blades from 4-3/8" through 8-1/2" diameter.



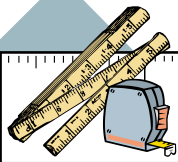
TLD-25 SAW BLADE COUNTER DISPLAY



Constructed of heavy steel in black matte finish with full color silk screened header. This unit is very substantial in order to safely support the weight of 25 blades.

Display designed to accommodate blades from 6" thru 8-1/4" in diameter.
Suggested location - countertop, near register.

TLD-25 can be used for the following item numbers:
175-24B, 175-40B, 175-60B, 185-180B, 185-240B,
190-240B, 185-36B. All products shipped in Bulk pack.



CONVERSION TABLE

Inch Decimals	Inch Fractions (x)						MM	Millimeters					
	/64	/32	/16	/8	/4	/2		1" + (x)	2" + (x)	3" + (x)	4" + (x)	5" + (x)	
0.015625	1/64						0.397	25.400	25.797	50.800	76.200	101.600	127.000
0.031250		1/32					0.794	26.194	25.797	51.197	76.597	101.997	127.397
0.046875	3/64						1.191	26.591	26.591	51.991	77.391	102.791	128.191
0.062500			1/16				1.588	26.988	26.988	52.388	77.788	103.188	128.588
0.078125	5/64						1.984	27.384	27.384	52.784	78.184	103.584	128.984
0.093750		3/32					2.381	27.781	27.781	53.181	78.581	103.981	129.381
0.109375	7/64						2.778	28.178	28.178	53.578	78.978	104.378	129.778
0.125000				1/8			3.175	28.575	28.575	53.975	79.375	104.775	130.175
0.140625	9/64						3.572	28.972	28.972	54.372	79.772	105.172	130.572
0.156250		5/32					3.969	29.369	29.369	54.769	80.169	105.569	130.969
0.171875	11/64						4.366	29.766	29.766	55.166	80.568	105.966	131.366
0.187500			3/16				4.762	30.162	30.162	55.562	80.962	106.362	131.762
0.203125	13/64						5.159	30.559	30.559	55.959	81.359	106.759	132.159
0.218750		7/32					5.556	30.956	30.956	56.356	81.756	107.156	132.556
0.234375	15/64						5.953	31.353	31.353	56.753	82.153	107.553	132.953
0.250000					1/4		6.350	31.750	31.750	57.150	82.550	107.950	133.350
0.265625	17/64						6.747	32.147	32.147	57.547	82.947	108.347	133.747
0.281250		9/32					7.144	32.544	32.544	57.944	83.344	108.744	134.144
0.296875	19/64						7.541	32.941	32.941	58.341	83.741	109.141	134.541
0.312500			5/16				7.938	33.338	33.338	58.738	84.138	109.538	134.938
0.328125	21/64						8.334	33.734	33.734	59.134	84.534	109.934	135.334
0.343750		11/32					8.731	34.131	34.131	59.531	84.931	110.331	135.731
0.359375	23/64						9.128	34.528	34.528	59.928	85.328	110.728	136.128
0.375000				3/8			9.526	34.925	34.925	60.325	85.725	111.125	136.525
0.390625	25/64						9.922	35.322	35.322	60.722	86.122	111.522	136.922
0.406250		13/32					10.319	35.719	35.719	61.119	86.519	111.919	137.319
0.421875	27/64						10.716	36.116	36.116	61.516	86.916	112.316	137.716
0.437500			7/16				11.112	36.512	36.512	61.912	87.312	112.712	138.112
0.453125	29/64						11.509	36.909	36.909	62.309	87.709	113.109	138.509
0.468750		15/32					11.906	37.306	37.306	62.706	88.106	113.506	138.906
0.484375	31/64						12.303	37.703	37.703	63.103	88.503	113.903	139.303
0.500000						1/2	12.700	38.100	38.100	63.500	88.900	114.300	139.700
0.515625	33/64						13.097	38.497	38.497	63.897	89.297	114.697	140.097
0.531250		17/32					13.494	38.894	38.894	64.294	89.694	115.094	140.494
0.546875	35/64						13.891	39.291	39.291	64.691	90.091	115.491	140.891
0.562500			9/16				14.288	39.688	39.688	65.088	90.488	115.888	141.288
0.578125	37/64						14.684	40.084	40.084	65.484	90.884	116.284	141.684
0.593750		19/32					15.081	40.481	40.481	65.881	91.281	116.681	142.081
0.609375	39/64						15.478	40.878	40.878	66.278	91.678	117.078	142.478
0.625000				5/8			15.875	41.275	41.275	66.675	92.075	117.475	142.875
0.640625	41/64						16.272	41.672	41.672	67.072	92.472	117.872	143.272
0.656250		21/32					16.669	42.069	42.069	67.469	92.869	118.269	143.669
0.671875	43/64						17.066	42.466	42.466	67.866	93.266	118.666	144.066
0.687500			11/16				17.462	42.862	42.862	68.262	93.662	119.062	144.462
0.703125	45/64						17.859	43.259	43.259	68.659	94.059	119.459	144.859
0.718750		23/32					18.256	43.656	43.656	69.056	94.456	119.856	145.256
0.734375	47/64						18.653	44.053	44.053	69.453	94.855	120.253	145.653
0.750000					3/4		19.050	44.450	44.450	69.850	95.250	120.650	146.050
0.765625	49/64						19.447	44.847	44.847	70.247	95.647	121.047	146.447
0.781250		25/32					19.844	45.244	45.244	70.644	96.044	121.444	146.844
0.796875	51/64						20.241	45.641	45.641	71.041	96.441	121.841	147.241
0.812500			13/16				20.638	46.038	46.038	71.438	96.838	122.238	147.638
0.828125	53/64						21.034	46.434	46.434	71.834	97.234	122.634	148.034
0.843750		27/32					21.431	46.831	46.831	72.231	97.631	123.031	148.431
0.859375	55/64						21.828	47.228	47.228	72.628	98.028	123.428	148.828
0.875000				7/8			22.225	47.625	47.625	73.025	98.425	123.825	149.225
0.890625	57/64						22.622	48.022	48.022	73.422	98.822	124.222	149.622
0.906250		29/32					23.019	48.419	48.419	73.819	99.219	124.619	150.019
0.921875	59/64						23.416	48.816	48.816	74.216	99.616	125.016	150.416
0.937500			15/16				23.812	49.212	49.212	74.612	100.012	125.412	150.812
0.953125	61/64						24.209	49.609	49.609	75.009	101.409	126.809	152.209
0.968750		31/32					24.606	50.000	50.000	75.406	100.806	126.206	151.606
0.984375	63/64						25.003	50.403	50.403	75.803	101.203	126.603	152.003

