

## Profile Tooling

- Single Edge
- Solid Carbide
- V Bottom

### For Use On:

**Softwood:** Cedar, Cottonwood, Pine and Redwood

**Hardwood:** Ash, Beech, Birch, Cherry, Mahogany, Maple, Oak, Poplar, Teak and Walnut

**Composite Wood:** MDF, Particle Board and Plywood

**Soft Plastic:** ABS, Polycarbonate, Polyethylene, PVC, Polypropylene, HDPE, Polystyrene, UHMW, and Extruded Acrylic

**Hard Plastic:** Cast Acrylic, Melamine, Nylon, PVC and Vinyl

**Solid Surface**

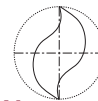
**Laminated and Veneered**



Designed for V grooving or beveling 90°.

Catalog Number	Cutting Edge Dia.	Cutting Edge Lgth.	Shank Dia.	Overall Length	Bevel Angle
<b>Solid Carbide</b>					
H25XOS-37-50	3/16	5/8	1/4	2	90°
H25XAM-45780		1/2			82.5°
H25XOS-37-51	3/4	90°			
H25XAM-47782	3/16	1-1/2		60°	
H25XOS-37-52	3/8	3/4	3/8	2-1/2	90°
H25XAM-45733	9/16	7/16	1/2	2-1/4	60°

- Double Edge
- Solid Carbide
- Upcut Spiral Ball Nose



### For Use On:

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**Hard Plastic:** Cast Acrylic, Melamine, Nylon, PVC and Vinyl

**Aluminum**

**Solid Surface**



Designed for carving and modeling operations. Their improved tip geometry gives a superior cut compared to most ball nose end mills.

Catalog Number	Cutting Edge Dia.	Cutting Edge Lgth.	Shank Dia.	Overall Lgth.
H25XOS-52-235B	1/16	1/4	1/8	2
H25XOS-52-244B	1/8	1/2		
H25XOS-52-240B	3/16	3/4	1/4	
H25XOS-52-260B		1		
H25XAM-46376	1/4	1	1/2	3
H25XAM-52-360B	3/8	1-1/4	3/8	
H25XAM-46378	1/2	2-1/8	1/2	4
H25XAM-46380		1		
H25XAM-46384	1/2	2-1/8	1/2	4
<b>Extended Length</b>				
H25XOS-52-235BL	1/16	1/4	1/8	3
H25XOS-52-244BL	1/8	1/2		
H25XOS-52-240BL	3/16	3/4	1/4	
H25XOS-52-260BL		1		4
H25XOS-52-280BL	1/4	1	3/8	5
H25XOS-52-320BL	3/8	1-1/4	1/2	
H25XOS-52-360BL	1/2	2-1/2	5/8	6
H25XOS-52-386BL	3/4	3	3/4	
H25XOS-52-397BL	3/4	3	3/4	6

Helix Angle ≈30°

## Profile Tooling

- Double Edge
- Carbide-Tipped
- Round & Rout

### For Use On:

**Softwood:** Cedar, Cottonwood, Pine and Redwood

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**Foam**



This bit creates a flat-bottom groove between two quarter-round shapes. Short vertical walls extending below the radius lend extra depth to the appearance. Depending upon the cut depth adjustment, the radii can be flush with the work surface or recessed. The profile can be formed on an edge using an edge guide.

Catalog Number	Overall Diameter	Cutter Diameter	Radius	Cutting Edge Length	Overall Length	Max. Cutter Length	Shank Diameter
H25XAM-56100	3/8	3/16	3/32	5/16	2	5/16	1/4
H25XAM-56170	1/2	1/4	1/8	3/8	1-7/8	3/8	
H25XAM-49700	3/4	.240	1/4	1/2	2	3/16	1/2
H25XAM-49701	.615		3/16		2-1/8		
H25XAM-49702	7/8	.245	5/16	9/16	2-1/6	7/16	
H25XAM-49704	1	.250	3/8	5/8	2-1/8	15/32	
H25XAM-56178	1-1/8	1/2	5/16	9/16	2-3/4	9/16	
H25XAM-49706	1-3/8	.363	1/2	1	2-1/2	3/4	
H25XAM-49708	1-3/4	.500	5/8	1-1/4	2-3/4	1	
H25XAM-49710	2		3/4	1-7/16	2-15/16	1-1/8	

## Profile Tooling

- Double Edge
- Carbide-Tipped
- V-Groove Cutter

### For Use On:

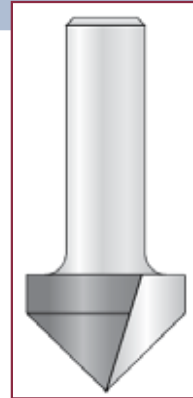
**Softwood:** Cedar, Cottonwood, Pine and Redwood

**Hardwood:** Ash, Beech, Birch, Cherry, Mahogany, Maple, Oak, Poplar, Teak and Walnut

**Plastic**

**Foam**

Designed for cutting decorative 'V' grooves and lettering on signs with these 'V' Groove bits. Use with an edge guide to chamfer and bevel edges.



Catalog Number	Overall Diameter	Tool Cut Angle	Maximum Cutter Length	Angle Length	Shank Diameter	Overall Length
H25XAM-45726	1-1/4	90°	3/4	5/8	1/2	2-1/2
H25XAM-45754		110°	47/64	7/16	1/4	2
H25XAM-45756		120°	21/32	23/64		1-59/64
H25XAM-45758		130°	31/64	13/64		1-3/4
H25XAM-45764		140°		15/64		1-47/64
H25XAM-45770		150°	7/16	11/64		1-11/16
H25XAM-45728*	1-1/2	90°	1	3/4		1/2
H25XAM-45732*	2		1-3/4	1	3-1/4	

\*Maximum rpm 18,000.

## Profile Tooling

- Double Edge
- Carbide-Tipped
- Elongated Core Box

### For Use On:

**Softwood:** Cedar, Cottonwood, Pine and Redwood

**Hardwood:** Ash, Beech, Birch, Cherry, Mahogany, Maple, Oak, Poplar, Teak and Walnut

### Foam

Ideal for fluting wood mouldings and columns. This cutter can be used for 3-D sculpting in foam materials



Catalog Number	Overall Diameter	Radius	Cutting Edge Length	Shank Diameter	Overall Length
H25XAM-45930	3/8	3/16	1	1/2	2-3/4
H25XAM-45932	1/2	1/4	1-1/4		
H25XAM-45936	5/8	5/16			
H25XAM-45938	3/4	3/8			
H25XAM-45942	1	1/2			
H25XAM-45946*	1-1/2	3/4			
H25XAM-45949**	2-1/4	1-1/8			3

\*Maximum rpm 18,000.

\*\*Maximum rpm 14,000.

## Profile Tooling

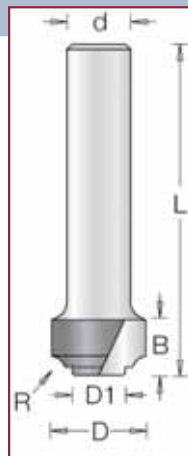
- Double Edge
- Carbide-Tipped
- Traditional & Classical Groove

### For Use On:

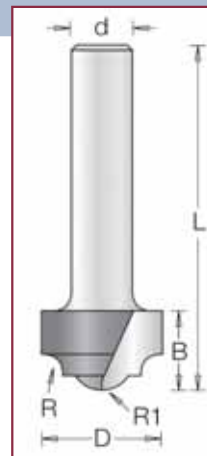
**Hardwood:** Ash, Beech, Birch, Cherry, Mahogany, Maple, Oak, Poplar, Teak and Walnut.

### Softwood

Designed for bead-sided routing on solid wood surfaces. The "traditional" profile is a more delicate profile that includes a step between the quarter-round and the flat bottom to the groove. The "classical" profile is used to form a bead-sided groove with a rounded bottom, embellishing solid wood surfaces.



Traditional Groove



Classical Groove

Catalog Number	Cutting Edge Dia.	SM Cutting Edge Dia.	Radius	Cutting Edge Length	Shank Diameter	Overall Length
<b>Traditional Groove</b>	(D)	(D1)	(R)	(B)	(d)	(L)
H25XAM-56102	1/2	.270	5/64	13/32	1/4	2-1/16
H25XAM-56106	3/4	.394	9/64	7/16	1/2	2-5/8

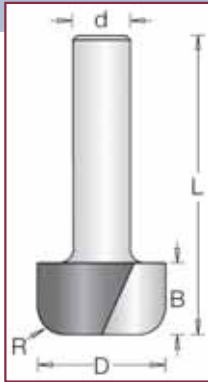
Catalog Number	Cutting Edge Dia.	Cutting Edge Radius	Radius	Cutting Edge Length	Shank Diameter	Overall Length
<b>Classical Groove</b>	(D)	(R1)	(R)	(B)	(d)	(L)
H25XAM-56108	1/2	3/32	9/64	7/16	1/4	2
H25XAM-56112	3/4	9/64	5/32	1/2	1/2	2-3/4
H25XAM-56114	1	13/64	1/4	11/16		3
H25XAM-56115	1-1/2	1/4		3/4		

## Profile Cutters

- Double Edge
- Carbide-Tipped
- Bowl and Tray

**For Use On:**  
**Solid Wood**

Designed for routing solid wood serving trays, flat dishes, shallow bowls and similar objects. 3 in 1 specialty plunging bit that cuts flat, smooth bottom surfaces, walls and a transition radius between them, all in one pass.

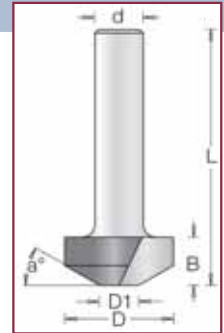


Catalog Number	Cutting Edge Dia.	Radius	Cutting Edge Lgth.	Shank Dia.	Overall Lgth.
	(D)	(R)	(B)	(d)	(L)
H25XAM-45981	1/2	1/8	1/2	1/4	2-1/8
H25XAM-45984	3/4	1/4	5/8	1/2	2-5/8
H25XAM-45986	1-1/8				

- Double Edge
- Carbide-Tipped
- Raised Panel 1/2" Shank

**For Use On:**  
**Solid Wood**  
**Composite Wood:** MDF,  
Particle Board, Plywood

Designed to rout decorative grooves on solid wood or panels. This cutter produces raised panels with a narrow bevel using a hand router equipped with an edge guide or on a router table.



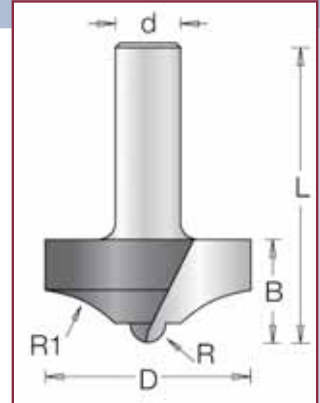
Catalog Number	Overall Cutting Edge Dia.	SM Cutting Edge Dia.	Angle Degree	Cutting Edge Lgth.	Overall Lgth.
	(D)	(D1)	(a°)	(B)	(L)
H25XAM-56116	1-1/8	.454	30°	1/2	2-3/4
H25XAM-56117	2-23/32	7/32	25°	3/4	2-1/4

## Profile Tooling

- Double Edge
- Carbide-Tipped
- Round and Ogee Groove

**For Use On:**
**Solid Wood**
**Composite Wood:** MDF, Particle Board, Plywood

Designed to rout decorative grooves on solid wood or MDF panels and surfaces with a handheld or CNC Router. Cutters form edges with a edge guide.



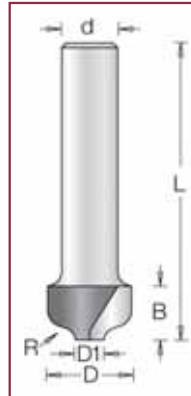
Catalog Number	Cutting Edge Dia.	SM Cutting Radius	LG Cutting Radius	Cutting Edge Length	Shank Diameter	Overall Length
	(D)	(R)	(R1)	(B)	(d)	(L)
<b>Ogee Groove</b>						
H25XAM-49230	1-9/16	5/32	7/8	7/8	1/2	2-9/32
<b>Round Groove</b>						
H25XAM-49232	1-5/8	3/8	3/4	23/32	1/2	2-3/16
H25XAM-49234	1-31/32	5/8	1-3/16			

## Profile Tooling

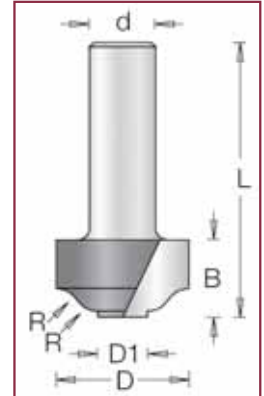
- Double Edge
- Carbide-Tipped
- Ogee Groove

**For Use On:**  
**Solid Wood**

Designed to rout flat-bottom grooves with ogee shoulders that decorate any solid wood surface. Reverse ogees rout a flat-bottom groove with a step profile for the shoulders.



Ogee Groove



Reverse Ogee Groove

Catalog Number	Overall Cutting Edge Dia.	SM Cutting Edge Diameter	Cutting Edge Radius	Cutting Edge Length	Shank Diameter (d)	Overall Length (L)
	(D)	(D1)	(R)	(B)		
<b>Ogee Groove</b>						
H25XAM-56118	3/4	.256	9/64	1/2	1/4	2-3/4
H25XAM-56122	1/2	.157	5/64	3/8		
H25XAM-56124	3/8	.123	1/16	5/16		2
<b>Reverse Ogee Groove</b>						
H25XAM-56204	15/16	5/16	5/32	21/32	1/4	1-7/8
H25XAM-56208	1	3/8	3/16	19/32	1/2	
H25XAM-56210	1-3/16	15/32	15/64			