









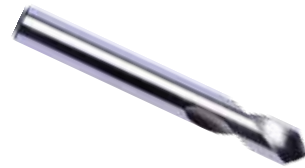
**DRILLS & SPOT DRILLS**  
PRICES VALID FOR DRILL OALS UP TO 20XD



Straight or Taper Shank Drills		
DIA	HSS	CARB
.108 - .250	\$2.25	\$4.90
To .375	\$4.00	\$6.50
To .625	\$9.36	\$9.56
To 1.00	\$12.42	\$17.50
To 1.250	\$16.56	X
To 1.75	\$25.55	X
To 2.0	\$30.60	X
To 3.0	\$40.56	



Carbide Hi-Performance Drills	
DIA	Price Each
.078 to .125	\$10.60
.126 - .375	\$9.26
.376 - .625	\$14.96
.626 - .8125	\$26.03
.813 - 1.00	\$39.64



Spot Drills		
DIA	HSS	CARB
TO .500	\$5.70	\$8.76
.501 - .8125	\$9.14	\$17.82
.8125 - 1.250	\$18.58	\$27.24



HSS-Carb 3 Flute Drills or Core Drills	
DIA	Price Each
.078 to .125	\$13.25
.126 - .375	\$11.58
.376 - .625	\$18.70
.626 - .8125	\$32.54
.813 - 1.00	\$49.55



Brad Point (Or Spur Point)	
DIA	HSS Price
TO .250	\$6.50
.251 - .375	\$7.50
.376 - .500	\$9.50
.501 - .750	\$12.75



Automotive "Fender" Drills	
To 10MM	\$6.50

Up-Charges	
OAL >20xD to 30xD:	Price x 2
OAL > 30xD	Price x 3
L. H. Drills:	Price x 2
Flat Bottom Drills	Price x 1.25
Convert to Flat Bottom Drill	Price x 2
Cut off & Re-Manufacture	Price x 2

**KEY CUTTERS, DOVETAIL CUTTERS,  
CONICAL MILLS**

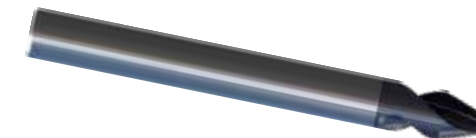


Key Cutters-Grind O.D. Straight or Stagger Tooth			
DIA	HSS or Carb	RADII	
		Bot	Bot/Top
.500"	\$10.00	\$18.00	\$28.00
to .750	\$14.00	\$22.00	\$32.00
to 1.25	\$20.00	\$28.00	\$38.00
to 1.50	\$26.00	\$32.00	\$42.00
to 2.0	\$32.00	\$40.00	\$50.00
to 3.00	\$40.00	\$50.00	\$62.00



Dovetail Cutters		
DIA	HSS or Carb	Add Radii
.500"	\$24.00	\$36.00
to .750	\$28.00	\$40.00
to 1.25	\$34.00	\$46.00
to 1.50	\$40.00	\$52.00
to 2.0	\$46.00	\$58.00
to 3.00	\$54.00	\$66.00

Key Cutters-Grind Faces Only Straight or Stagger Tooth	
DIA	HSS or Carb
.500"	\$5.00
to .750	\$7.00
to 1.25	\$10.00
to 1.50	\$13.00
to 2.0	\$16.00
to 3.00	\$20.00



Conical Mills HSS or Carb-Sq or Corner Rad			
2-4 FL MAJOR DIA	LOC		
	TO 1"	TO 2"	TO 3"
0.250 - .375	\$14.15	\$16.98	\$17.69
0.376 - .500	\$17.92	\$21.50	\$22.40
0.501 - .625	\$20.78	\$24.93	\$25.97
0.626 - .750	\$23.65	\$28.38	\$29.56
0.751 - 1.000	\$38.42	\$46.10	\$48.02
1.001 - 1.250	\$49.45	\$59.34	\$61.81

Conical Mills HSS or Carb-Sq or Corner Rad			
5+ FL MAJOR DIA	LOC		
	TO 1"	TO 2"	TO 3"
0.250 - .375	X	X	X
0.376 - .500	\$22.40	\$26.88	\$28.00
0.501 - .625	\$25.98	\$31.16	\$32.46
0.626 - .750	\$29.56	\$35.48	\$36.95
0.751 - 1.000	\$48.03	\$57.63	\$60.03
1.001 - 1.250	\$61.81	\$74.18	\$77.26

THREAD MILLS & WOOD ROUTER BITS



Thread Mills Grind Flute Face	
O.D.	CARBIDE OR HSS
TO .500 DIA	\$14.00
TO .750 DIA	\$20.00
TO 1.0 DIA	\$23.00
OVER 1.0 DIA	\$30.00



Wood Router Bits Carbide or HSS - Down or Up Cut			
2-4 FL	LOC		
MAJOR DIA	TO 1"	TO 2"	TO 3"
0.250 - .375	\$15.15	\$16.67	\$18.18
0.376 - .500	\$18.92	\$20.81	\$22.70
0.501 - .625	\$21.78	\$23.96	\$26.14
0.626 - .750	\$24.95	\$27.45	\$29.94
0.751 - 1.000	\$39.44	\$43.38	\$47.33
1.001 - 1.250	\$45.88	\$50.47	\$55.06



PVD COATING SERVICE

ALL STYLES OF END MILLS AND DRILLS UP TO 12" OAL.

AlTiN	TiN	TiCN	ZrN	AlCrN
Aluminum Titanium Nitride (Dark Purple-Black)	Titanium Nitride (Golden Yellow)	Titanium Carbo Nitride (Bronze - Metallic)	Zirconium Nitride (Gold-Metallic)	Aluminum Chromium Nitride (Slate-Gray)
APPLICATIONS: The workhorse coating. Suitable for high velocity machining of all ferrous metals including nickel based hi temp alloys and stainless.	APPLICATIONS: The basic choice for machining of all metals both ferrous and non ferrous. Stable tool protection.	APPLICATIONS: Cast Aluminum, Cast Iron, Tool Steels over 40HRC, Interrupted Cutting.	APPLICATIONS: Excellent for aggressive machining aluminum, brass and copper. Also great for UN-AGED Titanium (Best choice for hard or aged Titanium is AlTiSiN)	APPLICATIONS: High Microhardness with remarkable resistance to heat. Very Thin coating with low Coefficient of Friction. Especially proficient in exotic alloys.
ADVANTAGE: Excellent heat insulation, dry machining. Creates oxidized layer for built-in lubricity.	ADVANTAGE: Good General-purpose coating.	ADVANTAGE: High shock resistance, High hardness & abrasion resistance.	ADVANTAGE: Extra lubricity over TiN. Reduces chip welding.	ADVANTAGE: The top performer. Use for the most stringent of applications

Largest Dia	HSS PRICE	CARBIDE PRICE
1/8	\$2.53	\$2.91
3/16	\$2.73	\$3.12
1/4	\$2.97	\$3.44
5/16	\$3.50	\$4.00
3/8	\$4.32	\$4.95
7/16	\$5.97	\$6.85
1/2	\$6.22	\$7.15
5/8	\$9.33	\$10.76
3/4	\$9.69	\$11.15
1.0	\$12.42	\$14.28
1-1/4	\$15.36	\$17.66
1-1/2	\$16.97	\$19.52
2+	\$21.18	\$24.36

CARBIDE PRICE
\$5.23
\$5.56
\$6.19
\$7.63
\$9.12
\$10.72
\$12.21
\$18.36
\$21.40
\$30.59
\$32.50
\$36.88
\$39.75



## SHIPPING RATES

### Direct Customers of KV

**Ship To KV Tooling:** All Orders free shipping via our truck or UPS Collect.

### Return To Customer:

**Orders \$499 and Under** - At cost either UPS or Maine parcel (MPS applies only within Maine)

**Orders \$500 and Over** - No Extra Charge

*NOTE: NO CHARGE WHEN DELIVERING ORDERS WHILE ON NORMAL SALES VISIT*

### Tool Distributors

**Ship To KV Tooling:** Distributor's cost

**Return To Customer:** Distributor's cost



2459 N. Belfast Avenue, Augusta, ME 04330  
P: 207.626.3377 F: 866.207.3660  
sales@kvtooling.com www.kvtooling.com

## KV TOOLING, LLC PACKAGING GUIDELINES

After years of trial and error, we have developed safe tool packaging practices which have proven effective at protecting your cutting tools during transit. These guidelines are recommended practices in ensuring your cutting tools arrive safely at their destination. We cannot guarantee that all tools will arrive safely no matter how well packed, but these guidelines will greatly reduce damages that can occur using most parcel services.

### TOOL PACKAGING

#### BEST

The plastic packaging that the tools came in is the best way to protect tools from damage during transit. Please use the original plastic tool tubing whenever possible.

#### GOOD

If its not possible to use tubing, the best alterenate method is to use a hot plastic dipseal. Dip each tool to cover the cutting edges completely.

#### OK

Wrap each tool individually in bubble wrap, news paper or bulk paper and tape to secure.

#### NEVER

Send tools un-tubed, dipped or wrapped.

**IMPORTANT:** Once tools are protected, bundle 2-6 tools together, depending on size, using a rubber band. After bundling, wrap each bundle in a single layer of bubble wrap or bulk paper.

### BOXING

**Documentation:** Be sure to include all pertinent instructions and notes inside the box to assure proper service. Also include a packing slip either inside or in a protective sleeve attached to the outside of the box.

**Notification:** Notify KV Tooling, LLC when ready to send tools. We will email you a UPS label, or send a courier.

**Condition:** Select a box that is sturdy and in good condition.

**Size:** Pick a box that will be approx 50% larger than the gross mass of the tools inside.

- Too much space will let tools bounce around in box.
- Too little space does not allow for proper cushioning.
- Use multiple boxes if needed.

**Loading:** Layer groups of tooling inside box using bubble wrap or bulk paper as cushion. Place tools side by side. Add plenty of cushioning around tools. **Do not load tools end-to-end as damage may occur.**

**Sealing:** Seal all boxes with high quality packing tape or reinforced paper tape. Tape all seams.

**Labeling:** Remove or cover old box labeling including old UPS/FEDEX labels. Label box with Customer name, and PO (if applicable)

## KV TOOLING, LLC PACKAGING GUIDELINES

**Weight:** Cardboard boxes should not be overloaded or they can split. See chart below:

Minimum Bursting Test, Singlewall, Doublewall (lbs. per sq. in)	Minimum Edge Crush Test (ECT) (lbs. per in. width)	Minimum Combined Weight of Facings, Including Center Facing(s) of Doublewall	Maximum Weight of Box and Contents (lbs.)	Maximum Outside Dimensions, Length, Width, and Depth Added (inches)
<b>SINGLE WALL</b>				
125	23	52	20	40
150	26	66	35	50
175	29	75	50	60
200	32	84	65	75
250	40	111	80	85
275	44	138	95	95
350	55	180	120	105
<b>DOUBLE WALL</b>				
200	42	92	80	85
275	48	110	100	95
350	51	126	120	105
400	61	180	140	110
500	71	222	160	115
600	82	270	180	120
<b>E-FLUTE</b>				
150	26	66	35	50
200	32	84	50	60





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