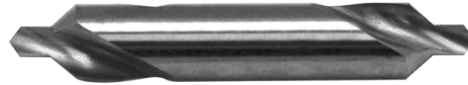


# COMBINED DRILL & COUNTERSINKS

## COMBINED DRILL & COUNTERSINKS

PLAIN TYPE-60°, 82° and 90° Included Angle

- Used for producing center holes in components or workpieces which require machining between centers
- Available in 60°, 82° and 90° included angles
- Right hand -left hand also available
- Available with TiN coating
- Made in the USA



Size	Body Dia	Point Dia	Point Length	OAL	60° Included Angle				82° Included Angle		90° Included Angle	
					HSS Part Number	Price Each	COBALT Part Number	Price Each	HSS Part Number	Price Each	HSS Part Number	Price Each
0000	1/8	0.015	0.015	1-1/4	KEO-10015	\$7.97	KEO-10017	\$33.19	KEO-10039	\$28.42	KEO-10019	\$30.00
000	1/8	0.020	0.020	1-1/4	KEO-10020	\$7.56	KEO-10022	\$22.55	KEO-10040	\$18.22	KEO-10024	\$19.22
00	1/8	0.025	0.025	1-1/4	KEO-10025	\$7.56	KEO-10027	\$22.55	KEO-10029	\$19.22	KEO-10030	\$19.22
0	1/8	1/32	1/32	1-1/4	KEO-10032	\$7.56	KEO-10034	\$22.55	KEO-10036	\$19.22	KEO-10037	\$19.22
#1	1/8	3/64	3/64	1-1/4	KEO-10100	\$5.27	KEO-10142	\$12.21	KEO-10182	\$8.61	KEO-10190	\$8.61
#2	3/16	5/64	5/64	1-7/8	KEO-10200	\$5.50	KEO-10242	\$12.61	KEO-10282	\$8.82	KEO-10290	\$8.82
#3	1/4	7/64	7/64	2	KEO-10300	\$5.73	KEO-10342	\$13.03	KEO-10382	\$9.13	KEO-10390	\$9.13
#4	5/16	1/8	1/8	2-1/8	KEO-10400	\$5.91	KEO-10442	\$13.57	KEO-10482	\$9.49	KEO-10490	\$9.49
#4-1/2	3/8	9/64	9/64	2-1/2	KEO-14500	\$8.15	KEO-14542	\$20.18	KEO-14582	\$12.99	KEO-14590	\$12.99
#5	7/16	3/16	3/16	2-3/4	KEO-10500	\$9.38	KEO-10542	\$21.39	KEO-10582	\$14.46	KEO-10590	\$14.46
#6	1/2	7/32	7/32	3	KEO-10600	\$14.10	KEO-10642	\$33.17	KEO-10682	\$21.88	KEO-10690	\$21.88
#7	5/8	1/4	1/4	3-1/4	KEO-10700	\$21.39	KEO-10742	\$49.93	KEO-10782	\$30.98	KEO-10790	\$30.98
#8	3/4	5/16	5/16	3-1/2	KEO-10800	\$29.38	KEO-10842	\$70.68	KEO-10882	\$43.44	KEO-10890	\$43.44
#9	7/8	11/32	11/32	3-5/8	KEO-10900	\$53.31	KEO-10942	\$130.86	KEO-10982	\$80.11	KEO-10990	\$80.11
#10	1	3/8	3/8	3-3/4	KEO-11000	\$69.98	KEO-11042	\$171.83	KEO-11082	\$105.39	KEO-11090	\$105.39

## 5 PIECE COMBINED DRILL & COUNTERSINK SETS

60° Included Angle Right Hand HSS

- 5 piece set includes #1 through #5 plain type combined drill and countersink with 60° included angle
- Available in HSS, cobalt and carbide
- Provided with wooden case
- Made in the USA



Description	Part Number	Set Price
#1 - #5 HSS	KEO-10000	\$47.72
#1 - #5 TiN Coated	KEO-10000-TIN	\$61.06
#1 - #5 Cobalt	KEO-10002	\$88.74
#1 - #5 Carbide	KEO-10003	\$158.56

## COMBINED DRILL & COUNTERSINKS

Plain Type 60° Angle  
HSS & M42 Cobalt

magafor



Size	Body Dia	Point Dia	Point Length	OAL	HSS M2 Part Number	Price Each	COBALT Part Number	Price Each
000	1/8	.020	.020	1-1/4	MAG-1150001	\$6.95	-	-
00	1/8	.025	.020	1-1/4	MAG-1150002	\$6.95	-	-
0	1/8	.031	.031	1-1/4	MAG-1150003	\$6.95	-	-
1-0	1/8	.040	.040	1-1/4	MAG-1103151	\$6.53	-	-
1	1/8	3/64	3/64	1-1/4	MAG-1150100	\$5.09	MAG-1055010	\$10.08
(BS 2)	3/16	1/16	1/16	1-3/4	MAG-1140200	\$6.82	-	-
2	3/16	5/64	5/64	1-7/8	MAG-1150200	\$5.22	MAG-1055020	\$10.49
3	1/4	7/64	7/64	2	MAG-1150300	\$5.49	MAG-1055030	\$10.94
4	5/16	1/8	1/8	2-1/8	MAG-1150400	\$5.72	MAG-1055040	\$11.48
4-1/2	3/8	9/64	9/64	2-1/2	MAG-1150450	\$7.70	-	-
5	7/16	3/16	3/16	2-3/4	MAG-1150500	\$9.00	MAG-1055050	\$17.87
6	1/2	7/32	7/32	3	MAG-1150600	\$13.37	MAG-1055060	\$26.60
7	5/8	1/4	1/4	3-1/4	MAG-1150700	\$19.53	MAG-1055070	\$38.93
8	3/4	5/16	5/16	3-1/2	MAG-1150800	\$30.29	MAG-1055080	\$60.57

## COMBINED DRILL & COUNTERSINKS

Plain Type- 82°/90° Angle  
M2 HSS

magafor



Size	Body Dia	Point Dia	Point Length	OAL	82° Angle Part Number	90° Angle Part Number	Price Each
1	1/8	3/64	3/64	1-1/4	MAG-1540100	MAG-1550100	\$7.07
2	3/16	5/64	5/64	1-7/8	MAG-1540200	MAG-1550200	\$7.43
3	1/4	7/64	7/64	2	MAG-1540300	MAG-1550300	\$7.70
4	5/16	1/8	1/8	2-1/8	MAG-1540400	MAG-1550400	\$8.15
5	7/16	3/16	3/16	2-3/4	MAG-1540500	MAG-1550500	\$12.47
6	1/2	7/32	7/32	3	MAG-1540600	MAG-1550600	\$18.59
7	5/8	1/4	1/4	3-1/4	MAG-1540700	MAG-1550700	\$26.96
8	3/4	5/16	5/16	3-1/2	MAG-1540800	MAG-1550800	\$42.12

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# SOLID SPADE DRILLS/COUNTERSINKS

B

## PLAIN TYPE COMBINED DRILL & COUNTERSINKS

### Solid Carbide

- Manufactured from premium sub-micron carbide with 10 cobalt
- Pilot has 118° drill point
- Available with 60°, 82° or 90° included angle
- TiN Coated 60° also available
- Made in USA



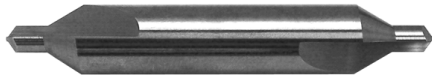
Size	Diameter		OAL	60° Angle Part Number	82° Angle Part Number	90° Angle Part Number	Price Each
	Point	Shank					
00	0.0265	1/8	1-1/2	MO-CD00-60	MO-CD00-82	MO-CD00-90	\$10.91
0	1/32	1/8	1-1/2	MO-CD0-60	MO-CD0-82	MO-CD0-90	\$10.25
1	3/64	1/8	1-1/2	MO-CD1-60	MO-CD1-82	MO-CD1-90	\$10.25
2	5/64	3/16	1-7/8	MO-CD2-60	MO-CD2-82	MO-CD2-90	\$13.61
3	7/64	1/4	2	MO-CD3-60	MO-CD3-82	MO-CD3-90	\$16.23
4	1/8	5/16	2-1/8	MO-CD4-60	MO-CD4-82	MO-CD4-90	\$22.25
5	3/16	7/16	2-3/4	MO-CD5-60	MO-CD5-82	MO-CD5-90	\$33.74
6	7/32	1/2	3	MO-CD6-60	MO-CD6-82	MO-CD6-90	\$43.00
7	1/4	5/8	3-1/4	MO-CD7-60	MO-CD7-82	MO-CD7-90	\$102.00
8	5/16	3/4	3-1/2	MO-CD8-60	MO-CD8-82	MO-CD8-90	\$143.87



**Full Line Available!**  
Please call for more information.

## COMBINED DRILL & COUNTERSINKS

### Solid Carbide-Plain Type-60° Included Angle



Size	Body Dia.	Point Dia	Point Length	OAL	Part Number	Price Each
00	1/8	.025	.025	1-1/2	KEO-19025	\$15.68
#0	1/8	1/32	1/32	1-1/2	KEO-19032	\$14.23
#1	1/8	3/64	3/64	1-1/2	KEO-19105	\$14.23
#2	3/16	5/64	5/64	2	KEO-19205	\$21.46
#3	1/4	7/64	7/64	2	KEO-19305	\$28.57
#4	5/16	1/8	1/8	2-1/8	KEO-19405	\$36.35
#5	7/16	3/16	3/16	2-3/4	KEO-19505	\$56.67
#6	1/2	7/32	7/32	3	KEO-19605	\$74.65
#7	5/8	1/4	1/4	3-3/4	KEO-19705	\$166.72
#8	3/4	5/16	5/16	4	KEO-19805	\$227.37

- Used for producing center holes in components or workpieces which require machining between centers
- Available with 60° included angle
- Right hand
- Made in the USA

## BELL TYPE COMBINED DRILL & COUNTERSINKS

### 60° Included Angle-HSS & Cobalt



- Used for producing center holes in components or workpieces which require machining between centers
- Additional 120° included chamfer eliminates the risk of deforming the countersink seat
- Right hand and left hand available
- Made in the USA

**Full Line Available!**  
Please call for more information.

Size	Body Dia.	Point Dia.	Point Length	OAL	Bell Dia.	HSS Part Number	Price Each	COBALT Part Number	Price Each
#11	1/8	3/64	3/64	1-1/4	0.100	KEO-11100	\$6.29	KEO-11142	\$14.92
#12	3/16	1/16	1/16	1-7/8	0.150	KEO-11200	\$6.59	KEO-11242	\$15.31
#13	1/4	3/32	3/32	2	0.200	KEO-11300	\$6.68	KEO-11342	\$15.71
#14	5/16	7/64	7/64	2-1/8	0.250	KEO-11400	\$6.91	KEO-11442	\$16.24
#15	7/16	5/32	5/32	2-3/4	0.350	KEO-11500	\$10.50	KEO-11542	\$25.89
#16	1/2	3/16	3/16	3	0.400	KEO-11600	\$16.18	KEO-11642	\$40.03
#17	5/8	7/32	7/32	3-1/4	0.500	KEO-11700	\$25.05	KEO-11742	\$59.59
#18	3/4	1/4	1/4	3-1/2	0.600	KEO-11800	\$33.19	KEO-11842	\$83.13
#19	7/8	5/16	5/16	3-5/8	0.700	KEO-11900	\$57.29	KEO-11942	\$140.99
#20	1	3/8	3/8	3-3/4	0.800	KEO-12000	\$73.84	KEO-12042	\$181.77

## COMBINED DRILL & COUNTERSINKS

### Bell Type- 60°/120° Angle-HSS



Magafor combined drills and countersinks with a 120° chamfer protects the 60° countersink from any risk of blows and deformation. The splay resulting from the protective chamfer makes it easier to load parts between centers on machines with automatic feed.



Size	Body Dia	Bell Dia	Point Dia	Point Length	OAL	Part Number	Price Each
11	1/8	.100	3/64	3/64	1-1/4	MAG-1351100	\$5.94
12	3/16	.150	1/16	1/16	1-7/8	MAG-1351200	\$6.03
13	1/4	.200	3/32	3/32	2"	MAG-1351300	\$6.21
14	5/16	.250	7/64	7/64	2-1/8	MAG-1351400	\$6.44
15	7/16	.350	5/32	5/32	2-3/4	MAG-1351500	\$9.95
16	1/2	.400	3/16	3/16	3"	MAG-1351600	\$15.12
17	5/8	.500	7/32	7/32	3-1/4	MAG-1351700	\$22.77
18	3/4	.600	1/4	1/4	3-1/2	MAG-1351800	\$32.18
19	7/8	.700	5/16	5/16	3-5/8	MAG-1351900	\$57.29
20	1"	.800	3/8	3/8	3-3/4	MAG-1352000	\$70.79

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LATHE CHUCKS  
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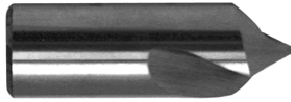
# CENTER/SPOTTING DRILLS

## SPOTTING & CENTERING DRILLS

90° & 118° Point Angles



- Prevents misalignment caused by using regular drills for centering
- These short drills can be chucked close to the point, ensuring accuracy and true starts
- Made in the USA



Body Dia.	Flute Length	OAL	90° Point				118° Point			
			HSS Part Number	Price Each	TIN Coated Part Number	Price Each	HSS Part Number	Price Each	TIN Coated Part Number	Price Each
1/8	3/8	1-1/4	KEO-30151	\$5.16	KEO-30151-TIN	\$6.15	KEO-30150	\$5.16	KEO-30150-TIN	\$6.15
3/16	1/2	1-3/8	KEO-30181	\$5.60	KEO-30181-TIN	\$7.02	KEO-30180	\$5.60	KEO-30180-TIN	\$7.02
1/4	5/8	1-1/2	KEO-30251	\$6.18	KEO-30251-TIN	\$8.08	KEO-30250	\$6.18	KEO-30250-TIN	\$8.08
5/16	5/8	1-1/2	KEO-30311	\$7.02	KEO-30311-TIN	\$9.45	KEO-30310	\$7.02	KEO-30310-TIN	\$9.45
3/8	1	2	KEO-30381	\$7.95	KEO-30381-TIN	\$10.37	KEO-30380	\$7.95	KEO-30380-TIN	\$10.37
7/16	1	2	KEO-30761	\$10.72	KEO-30761-TIN	\$14.60	KEO-30760	\$10.72	KEO-30760-TIN	\$14.60
1/2	1	2	KEO-30121	\$13.12	KEO-30121-TIN	\$17.01	KEO-30120	\$13.12	KEO-30120-TIN	\$17.01
9/16	1	2	KEO-30961	\$19.55	KEO-30961-TIN	\$24.38	KEO-30960	\$19.55	KEO-30960-TIN	\$24.38
5/8	1-1/8	2-1/4	KEO-30581	\$21.71	KEO-30581-TIN	\$28.15	KEO-30580	\$21.71	KEO-30580-TIN	\$28.15
3/4	1-1/8	2-1/4	KEO-30341	\$30.18	KEO-30341-TIN	\$37.56	KEO-30340	\$30.18	KEO-30340-TIN	\$37.56
7/8	1-1/4	2-1/2	KEO-30781	\$36.99	KEO-30781-TIN	\$47.10	KEO-30780	\$36.99	KEO-30780-TIN	\$47.10
1	1-1/4	2-1/2	KEO-31001	\$47.28	KEO-31001-TIN	\$60.13	KEO-31000	\$47.28	KEO-31000-TIN	\$60.13

## NC SPOTTING DRILLS

HSS M35 5% Cobalt-Standard Length



- Very narrow chisel edge. Short flute and stubby length provide precise spotting prior to drilling.
- "H6" tolerance ensures perfect centering of the web and cutting edge.
- Point Angle 90° can combine centering and chamfering into one operation.
- Point Angle 120° best when follow-on drill has a 118° drill point, precise hole location.



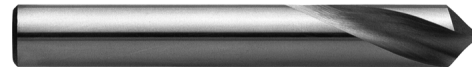
Size	Dec.	OAL	Cutting Length	90° Angle Part Number	120° Angle Part Number	Price Each
2 mm	.0787	1-5/8	5/16	MAG-1950200	MAG-1960200	\$16.12
3 mm	.1181	2	7/16	MAG-1950300	MAG-1960300	\$14.65
4 mm	.1575	2-1/16	1/2	MAG-1950400	MAG-1960400	\$16.12
5 mm	.1969	2-3/8	5/8	MAG-1950500	MAG-1960500	\$18.28
6 mm	.2362	2-5/8	3/4	MAG-1950600	MAG-1960600	\$20.24
1/4"	.2500	2-5/8	7/8	MAG-1950635	MAG-1960635	\$20.63
8 mm	.3150	3-1/8	1	MAG-1950800	MAG-1960800	\$21.51
3/8"	.3750	3-1/2	1	MAG-1950952	MAG-1960952	\$22.05
1/2"	.5000	4	1-3/8	MAG-1951270	MAG-1961270	\$28.42
5/8"	.6250	4-1/2	1-3/8	MAG-1951587	MAG-1961587	\$41.21
3/4"	.7500	5-1/8	1-5/8	MAG-1951905	MAG-1961905	\$57.77
1"	1.000	5-1/2	1-3/4	MAG-1952540	MAG-1962540	\$110.54

## SOLID CARBIDE N/C SPOTTING DRILLS

90° & 120° Point Angles



- Solid carbide
- Designed with a narrow chisel edge for quick starting
- Right hand
- Made in the USA



Dia	Flute Length	OAL	90° Point Angle				120° Point Angle			
			Uncoated Part Number	Price Each	TIN Coated Part Number	Price Each	Uncoated Part Number	Price Each	TIN Coated Part Number	Price Each
1/8	3/8	1-1/2	KEO-34180	\$16.91	KEO-34180-TIN	\$17.94	KEO-34181	\$16.91	KEO-34181-TIN	\$17.94
3/16	9/16	2	KEO-34187	\$22.22	KEO-34187-TIN	\$23.71	KEO-34188	\$22.22	KEO-34188-TIN	\$23.71
1/4	3/4	2-1/2	KEO-34140	\$28.35	KEO-34140-TIN	\$31.05	KEO-34141	\$28.35	KEO-34141-TIN	\$31.05
5/16	3/4	2-1/2	KEO-34312	\$34.20	KEO-34312-TIN	\$37.56	KEO-34313	\$34.20	KEO-34313-TIN	\$37.56
3/8	3/4	2-1/2	KEO-34380	\$39.15	KEO-34380-TIN	\$42.55	KEO-34381	\$39.15	KEO-34381-TIN	\$42.55
1/2	1	3	KEO-34120	\$61.22	KEO-34120-TIN	\$66.65	KEO-34121	\$61.22	KEO-34121-TIN	\$66.65
5/8	1	3-1/2	KEO-34580	\$112.73	KEO-34580-TIN	\$121.28	KEO-34581	\$112.73	KEO-34581-TIN	\$121.28
3/4	1-1/8	4	KEO-34340	\$188.16	KEO-34340-TIN	\$199.47	KEO-34341	\$188.16	KEO-34341-TIN	\$199.47



## SPOTTING AND CENTERING DRILLS

82°, 90°, 100°, 120° Included Drill Point



- Solid carbide
- Right hand
- Made in the USA



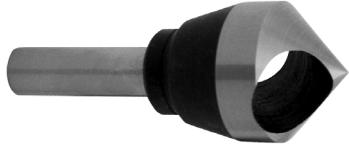
Dia.	OAL	Flute Len.	Incl. Drill Pt.	Part Number	Price Each	Dia.	OAL	Flute Len.	Incl. Drill Pt.	Part Number	Price Each
1/4	2	3/4	82°	MI-SPD250082	\$22.90	1/2	2	1	82°	MI-SPD500082	\$50.05
			90°	MI-SPD250090					90°	MI-SPD500090	
			100°	MI-SPD250100					100°	MI-SPD500100	
			120°	MI-SPD250120					120°	MI-SPD500120	
5/16	2	3/4	82°	MI-SPD312082	\$26.70	5/8	2-1/2	1-1/8	82°	MI-SPD625082	\$88.50
			90°	MI-SPD312090					90°	MI-SPD625090	
			100°	MI-SPD312100					100°	MI-SPD625100	
			120°	MI-SPD312120					120°	MI-SPD625120	
3/8	2	1	82°	MI-SPD375082	\$33.60	3/4	2-1/2	1-1/8	82°	MI-SPD750082	\$134.25
			90°	MI-SPD375090					90°	MI-SPD750090	
			100°	MI-SPD375100					100°	MI-SPD750100	
			120°	MI-SPD375120					120°	MI-SPD750120	

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# COUNTERSINKS

B

## ZERO FLUTE M35 COBALT COUNTERSINK AND DEBURRING TOOLS



- All-purpose tool provides flawless counter sinking and deburring
- Chatter-free cutting action requires minimal power
- Micro-smooth CNC precision ground construction produces clean, smooth cutting without smearing on a variety of materials
- Works on all materials- excels in aluminum, plastics and other non-metallic materials
- Made in the USA

Head Dia.	Dia. of Cut		OAL	Shank Dia	60° Angle	
	Min.	Max.			Part Number	Price Each
5/16	7/64	9/32	1-7/8	1/4	KEO-53500	\$13.67
3/8	5/32	11/32	1-7/8	1/4	KEO-53501	\$15.61
1/2	11/64	29/64	2	5/16	KEO-53502	\$18.69
5/8	3/16	37/64	2-1/2	3/8	KEO-53503	\$21.46
3/4	1/4	45/64	2-3/4	3/8	KEO-53504	\$32.67
1	19/64	27/32	3	3/8	KEO-53505	\$40.63
1-1/4	27/64	1-1/32	3-1/2	1/2	KEO-53506	\$98.46



### 4 PIECE ZERO FLUTE COUNTERSINK SETS

4 Piece Set Includes:	C°Sink Angle	Part Number	Price Each
5/16, 3/8, 1/2, 5/8	60°	KEO-53508	\$73.84
	82°	KEO-53518	\$73.84
	90°	KEO-53528	\$73.84

Head Dia.	Dia. of Cut		OAL	Shank Dia	82° Angle		90° Angle		100° Angle	
	Min.	Max.			Part Number	Price Each	Part Number	Price Each	Part Number	Price Each
5/16	3/32	9/32	1-5/8	1/4	KEO-53510	\$13.67	KEO-53520	\$13.67	KEO-53530	\$13.67
3/8	9/64	11/32	1-3/4	1/4	KEO-53511	\$15.61	KEO-53521	\$15.61	KEO-53531	\$15.61
1/2	5/32	29/64	1-3/4	5/16	KEO-53512	\$18.69	KEO-53522	\$18.69	KEO-53532	\$18.69
5/8	11/64	37/64	2-1/8	3/8	KEO-53513	\$21.46	KEO-53523	\$21.46	KEO-53533	\$21.46
3/4	13/64	45/64	2-3/8	3/8	KEO-53514	\$32.67	KEO-53524	\$32.67	KEO-53534	\$32.67
1	19/64	59/64	2-5/8	3/8	KEO-53515	\$40.63	KEO-53525	\$40.63	KEO-53535	\$40.63
1-1/4	23/64	1-3/32	3-1/8	1/2	KEO-53516	\$98.46	KEO-53526	\$98.46	KEO-53536	\$98.46

## ZEROFLUTE COUNTERSINKS & DEBURRING TOOLS

### HSS-M35 5% Cobalt

#### FEATURES:

- Zeroflute deburring tools give chatterless finishes.
- Single cutting edge for fast removal of stock.
- Free Cutting.
- Designed for 60°/82° and 90° cutting.
- Easily sharpened by use of a small mounted grinding wheel inserted into hole.



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\*15% to 20% greater for 60° countersinks only + Double Ended

Size	Body Dia	Dia of Cut		OAL	Shank Dia	60° Angle	82° Angle	90° Angle	Price Each
		Min*	Max			Part Number	Part Number	Part Number	
0+	1/4	.08	.22	1-3/4	1/4	MAG-4120635	MAG-4140635	MAG-4110635	\$15.83
1	7/16	.15	.40	1-3/4	1/4	MAG-4121120	MAG-4141120	MAG-4111120	\$17.05
2	9/16	.20	.52	2"	1/4	MAG-4121400	MAG-4141400	MAG-4111400	\$21.27
3	13/16	.30	.75	2-5/8	1/2	MAG-4122040	MAG-4142040	MAG-4112040	\$38.51
4	1-3/16	.48	1.10	3-1/2	1/2	MAG-4123010	MAG-4143010	MAG-4113010	\$62.13

## SINGLE FLUTE COUNTERSINKS

### 60°, 82° & 90° Point Angles-HSS & Cobalt



- Ideal for chamfering, deburring and countersinking
- Large positive rake and single flute construction provide a smooth surface finish on a wide variety of materials
- Tool versatility can help increase productivity on all general purpose applications
- Made in the USA

Body Dia	OAL	Shank Dia	HIGH SPEED STEEL				COBALT			
			60° Angle Part Number	82° Angle Part Number	90° Angle Part Number	Price Each	60° Angle Part Number	82° Angle Part Number	90° Angle Part Number	Price Each
1/8	1-1/4	1/8	KEO-53186	KEO-53188	KEO-53189	\$8.47	KEO-55400	KEO-55412	KEO-55424	\$9.74
3/16	1-3/8	3/16	KEO-53176	KEO-53178	KEO-53179	\$8.68	KEO-55401	KEO-55413	KEO-55425	\$9.98
1/4	1-1/2	1/4	KEO-53146	KEO-53148	KEO-53149	\$9.03	KEO-55402	KEO-55414	KEO-55426	\$10.39
3/8	1-3/4	1/4	KEO-53386	KEO-53388	KEO-53389	\$10.30	KEO-55403	KEO-55415	KEO-55427	\$11.85
1/2	2	1/4	KEO-53126	KEO-53128	KEO-53129	\$12.60	KEO-55404	KEO-55416	KEO-55428	\$14.50
5/8	2-1/4	3/8	KEO-53586	KEO-53588	KEO-53589	\$16.87	KEO-55405	KEO-55417	KEO-55429	\$19.39
3/4	2-5/8	1/2	KEO-53346	KEO-53348	KEO-53349	\$24.61	KEO-55406	KEO-55418	KEO-55430	\$28.30
1	2-3/4	1/2	KEO-53106	KEO-53108	KEO-53109	\$42.21	KEO-55407	KEO-55419	KEO-55431	\$48.55
1-1/4	3	1/2	KEO-53246	KEO-53248	KEO-53249	\$82.63	KEO-55408	KEO-55420	KEO-55432	\$95.03
1-1/2	3-1/4	3/4	KEO-53226	KEO-53228	KEO-53229	\$111.89	KEO-55409	KEO-55421	KEO-55433	\$128.67
1-3/4	3-1/2	3/4	KEO-53446	KEO-53448	KEO-53449	\$142.84	KEO-55410	KEO-55422	KEO-55434	\$164.27
2	3-3/4	3/4	KEO-53206	KEO-53208	KEO-53209	\$199.93	KEO-55411	KEO-55423	KEO-55435	\$229.91



## SINGLE FLUTE COUNTERSINKS

### HSS-M35 5% Cobalt

- Single flute countersinks provide smooth finishes on a wide range of materials.
- Great countersinking capacity from the point to the outside diameter.
- Complete size range is available in 60° - 82° or 90° included angles.



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Size	OAL	Shank Dia	60° Angle Part Number	82° Angle Part Number	90° Angle Part Number	Price Each
1/8	1-1/4	1/8	MAG-4220317	MAG-4240317	MAG-4210317	\$10.34
3/16	1-3/8	3/16	MAG-4220476	MAG-4240476	MAG-4210476	\$10.88
1/4	1-1/2	1/4	MAG-4220635	MAG-4240635	MAG-4210635	\$11.07
5/16	1-5/8	1/4	MAG-4220793	MAG-4240793	MAG-4210793	\$12.45
3/8	1-3/4	1/4	MAG-4220952	MAG-4240952	MAG-4210952	\$12.74
1/2	2"	1/4	MAG-4221270	MAG-4241270	MAG-4211270	\$16.32
5/8	2-1/4	3/8	MAG-4221587	MAG-4241587	MAG-4211587	\$21.81
3/4	2-5/8	1/2	MAG-4221905	MAG-4241905	MAG-4211905	\$29.06
7/8	2-3/4	1/2	MAG-4222222	MAG-4242222	MAG-4212222	\$49.00
1"	2-3/4	1/2	MAG-4222540	MAG-4242540	MAG-4212540	\$50.86
1-1/4	2-3/4*	1/2	MAG-4223175	MAG-4243175	MAG-4213175	\$87.22

\*The 60° Countersink (MAG-4223175) has an overall length of 3"

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# COUNTERSINKS/CENTER REAMERS

## THREE FLUTE CENTER REAMERS

60°, 82° & 90° Point Angles-High Speed Steel

KEO 3-flute center reamers are versatile tools designed for countersinking holes for centers or for enlarging existing holes. Made from high speed steel.



Body Dia	OAL	Shank Dia	60° Angle Part Number	Price Each	82° Angle Part Number	90° Angle Part Number	Price Each
1/4	1-1/2	1/4	KEO-50146	\$9.55	KEO-50148	KEO-50149	\$9.55
3/8	1-3/4	1/4	KEO-50386	\$10.75	KEO-50388	KEO-50389	\$10.75
1/2	2	1/4	KEO-50126	\$13.23	KEO-50128	KEO-50129	\$13.23
5/8	2-1/4	3/8	KEO-50586	\$17.60	KEO-50588	KEO-50589	\$17.60
3/4	2-5/8	1/2	KEO-50346	\$25.73	KEO-50348	KEO-50349	\$25.73
1	2-3/4	1/2	KEO-51006	\$40.94	KEO-51008	KEO-51009	\$40.94
1-1/4	2-3/4*	1/2	KEO-51256	\$99.51	KEO-51258	KEO-51259	\$96.01
1-1/2	2-7/8*	3/4	KEO-51506	\$151.64	KEO-51508	KEO-51509	\$137.43
1-3/4	3*	3/4	KEO-51756	\$191.17	KEO-51758	KEO-51759	\$181.92
2	3-1/4*	3/4	KEO-52306	\$254.37	KEO-52308	KEO-52309	\$223.58

\*60°OAL:1-1/4=3", 1-1/2=3-1/4", 1-3/4=3-1/2", 2=3-3/4"

## CARBIDE COUNTERSINKS

- Manufactured from premium sub-micron carbide with 10 cobalt
- Sizes 1/4" diameter and smaller are solid carbide
- Sizes 3/8" and larger are composed of hardened steel shanks and induction brazed heads to insure a solid, safe and secure bond
- Made in USA



**CHATTERLESS!**  
Carbide Countersinks At A High Speed Steel Price!

Cutter Dia	Shank Dia	OAL	60° Angle Part Number	82° Angle Part Number	90° Angle Part Number	100° Angle Part Number	120° Angle Part Number	Price
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### SINGLE FLUTE

1/8"	1/8"	1-1/2"	MO-CC0125-60-1	MO-CC0125-82-1	MO-CC0125-90-1	MO-CC0125-100-1	MO-CC0125-120-1	\$6.38
3/16"	3/16"	2"	MO-CC0187-60-1	MO-CC0187-82-1	MO-CC0187-90-1	MO-CC0187-100-1	MO-CC0187-120-1	\$9.90
1/4"	1/4"	2"	MO-CC0250-60-1	MO-CC0250-82-1	MO-CC0250-90-1	MO-CC0250-100-1	MO-CC0250-120-1	\$11.14
5/16"	1/4"	2-1/2"	MO-CC0312-60-1	MO-CC0312-82-1	MO-CC0312-90-1	MO-CC0312-100-1	MO-CC0312-120-1	\$19.24
3/8"	1/4"	2-3/8"	MO-CC0375-60-1	MO-CC0375-82-1	MO-CC0375-90-1	MO-CC0375-100-1	MO-CC0375-120-1	\$20.55
1/2"	1/4"	2-1/2"	MO-CC0500-60-1	MO-CC0500-82-1	MO-CC0500-90-1	MO-CC0500-100-1	MO-CC0500-120-1	\$27.98
5/8"	3/8"	2-5/8"	MO-CC0625-60-1	MO-CC0625-82-1	MO-CC0625-90-1	MO-CC0625-100-1	MO-CC0625-120-1	\$36.90
3/4"	3/8"	2-7/8"	MO-CC0750-60-1	MO-CC0750-82-1	MO-CC0750-90-1	MO-CC0750-100-1	MO-CC0750-120-1	\$51.08
7/8"	1/2"	3"	MO-CC0875-60-1	MO-CC0875-82-1	MO-CC0875-90-1	MO-CC0875-100-1	MO-CC0875-120-1	\$82.39
1"	1/2"	3"	MO-CC1000-60-1	MO-CC1000-82-1	MO-CC1000-90-1	MO-CC1000-100-1	MO-CC1000-120-1	\$84.34
1-1/4"	3/4"	3-3/8"	MO-CC1250-60-1	MO-CC1250-82-1	MO-CC1250-90-1	MO-CC1250-100-1	MO-CC1250-120-1	\$119.51
1-1/2"	3/4"	3-1/2"	MO-CC1500-60-1	MO-CC1500-82-1	MO-CC1500-90-1	MO-CC1500-100-1	MO-CC1500-120-1	\$154.84

### 3 FLUTE

Cutter Dia	Shank Dia	OAL	60° Angle Part Number	82° Angle Part Number	90° Angle Part Number	100° Angle Part Number	120° Angle Part Number	Price
1/8"	1/8"	1-1/2"	MO-CC0125-60-3	MO-CC0125-82-3	MO-CC0125-90-3	MO-CC0125-100-3	MO-CC0125-120-3	\$6.38
3/16"	3/16"	2"	MO-CC0187-60-3	MO-CC0187-82-3	MO-CC0187-90-3	MO-CC0187-100-3	MO-CC0187-120-3	\$9.90
1/4"	1/4"	2"	MO-CC0250-60-3	MO-CC0250-82-3	MO-CC0250-90-3	MO-CC0250-100-3	MO-CC0250-120-3	\$11.14
5/16"	1/4"	2-1/2"	MO-CC0312-60-3	MO-CC0312-82-3	MO-CC0312-90-3	MO-CC0312-100-3	MO-CC0312-120-3	\$19.24
3/8"	1/4"	2-3/8"	MO-CC0375-60-3	MO-CC0375-82-3	MO-CC0375-90-3	MO-CC0375-100-3	MO-CC0375-120-3	\$20.55
1/2"	1/4"	2-1/2"	MO-CC0500-60-3	MO-CC0500-82-3	MO-CC0500-90-3	MO-CC0500-100-3	MO-CC0500-120-3	\$27.98
5/8"	3/8"	2-5/8"	MO-CC0625-60-3	MO-CC0625-82-3	MO-CC0625-90-3	MO-CC0625-100-3	MO-CC0625-120-3	\$36.90
3/4"	3/8"	2-7/8"	MO-CC0750-60-3	MO-CC0750-82-3	MO-CC0750-90-3	MO-CC0750-100-3	MO-CC0750-120-3	\$51.08
7/8"	1/2"	3"	MO-CC0875-60-3	MO-CC0875-82-3	MO-CC0875-90-3	MO-CC0875-100-3	MO-CC0875-120-3	\$82.39
1"	1/2"	3"	MO-CC1000-60-3	MO-CC1000-82-3	MO-CC1000-90-3	MO-CC1000-100-3	MO-CC1000-120-3	\$84.34
1-1/4"	3/4"	3-3/8"	MO-CC1250-60-3	MO-CC1250-82-3	MO-CC1250-90-3	MO-CC1250-100-3	MO-CC1250-120-3	\$119.51
1-1/2"	3/4"	3-1/2"	MO-CC1500-60-3	MO-CC1500-82-3	MO-CC1500-90-3	MO-CC1500-100-3	MO-CC1500-120-3	\$154.84

### 6-FLUTE

Cutter Dia	Shank Dia	OAL	60° Angle Part Number	82° Angle Part Number	90° Angle Part Number	100° Angle Part Number	120° Angle Part Number	Price
1/8"	1/8"	1-1/2"	MO-CC0125-60-6	MO-CC0125-82-6	MO-CC0125-90-6	MO-CC0125-100-6	MO-CC0125-120-6	\$6.38
3/16"	3/16"	2"	MO-CC0187-60-6	MO-CC0187-82-6	MO-CC0187-90-6	MO-CC0187-100-6	MO-CC0187-120-6	\$9.90
1/4"	1/4"	2"	MO-CC0250-60-6	MO-CC0250-82-6	MO-CC0250-90-6	MO-CC0250-100-6	MO-CC0250-120-6	\$11.14
5/16"	1/4"	2-1/2"	MO-CC0312-60-6	MO-CC0312-82-6	MO-CC0312-90-6	MO-CC0312-100-6	MO-CC0312-120-6	\$19.24
3/8"	1/4"	2-3/8"	MO-CC0375-60-6	MO-CC0375-82-6	MO-CC0375-90-6	MO-CC0375-100-6	MO-CC0375-120-6	\$20.55
1/2"	1/4"	2-1/2"	MO-CC0500-60-6	MO-CC0500-82-6	MO-CC0500-90-6	MO-CC0500-100-6	MO-CC0500-120-6	\$27.98
5/8"	3/8"	2-5/8"	MO-CC0625-60-6	MO-CC0625-82-6	MO-CC0625-90-6	MO-CC0625-100-6	MO-CC0625-120-6	\$36.90
3/4"	3/8"	2-7/8"	MO-CC0750-60-6	MO-CC0750-82-6	MO-CC0750-90-6	MO-CC0750-100-6	MO-CC0750-120-6	\$51.08
7/8"	1/2"	3"	MO-CC0875-60-6	MO-CC0875-82-6	MO-CC0875-90-6	MO-CC0875-100-6	MO-CC0875-120-6	\$82.39
1"	1/2"	3"	MO-CC1000-60-6	MO-CC1000-82-6	MO-CC1000-90-6	MO-CC1000-100-6	MO-CC1000-120-6	\$84.34
1-1/4"	3/4"	3-3/8"	MO-CC1250-60-6	MO-CC1250-82-6	MO-CC1250-90-6	MO-CC1250-100-6	MO-CC1250-120-6	\$119.51
1-1/2"	3/4"	3-1/2"	MO-CC1500-60-6	MO-CC1500-82-6	MO-CC1500-90-6	MO-CC1500-100-6	MO-CC1500-120-6	\$154.84

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