



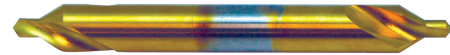
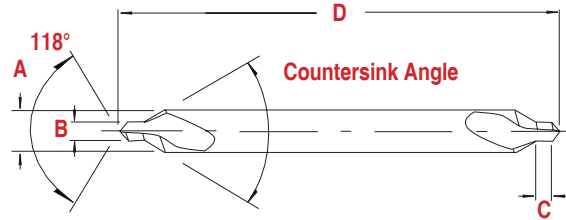
Combined Drill & Countersinks — Long Series

KEO long series combined drill and countersinks are used for producing center holes in components or workpieces with the extra length allowing access to difficult-to-reach areas.



Long Series 8"

Size	HSS 60°	A	B	C	D
		Body Dia.	Point Dia.	Point Length	OAL
#1 x 8	21080	1/8	3/64	3/64	8
#2 x 8	22080	3/16	5/64	5/64	8
#3 x 8	23080	1/4	7/64	7/64	8
#4 x 8	24080	5/16	1/8	1/8	8
#4-1/2 x 8	24580	3/8	9/64	9/64	8
#5 x 8	25080	7/16	3/16	3/16	8
#6 x 8	26080	1/2	7/32	7/32	8
#7 x 8	27080	5/8	1/4	1/4	8
#8 x 8	28080	3/4	5/16	5/16	8



Long Series

Size	Product Number					A Body Dia.	B Point Dia.	C Point Length	D OAL
	Countersink Angle/Coating								
	HSS 60°	HSS-TiN	HSS 82°	HSS 90°	CO 60°				
#1 x 3	21030	21030-TiN	21033	21034	21032	1/8	3/64	3/64	3
#1 x 4	21040	21040-TiN	21043	21044	21042	1/8	3/64	3/64	4
#1 x 5	21050	21050-TiN	21053	21054	21052	1/8	3/64	3/64	5
#1 x 6	21060	21060-TiN	21063	21064	21062	1/8	3/64	3/64	6
#2 x 3	22030	22030-TiN	22033	22034	22032	3/16	5/64	5/64	3
#2 x 4	22040	22040-TiN	22043	22044	22042	3/16	5/64	5/64	4
#2 x 5	22050	22050-TiN	22053	22054	22052	3/16	5/64	5/64	5
#2 x 6	22060	22060-TiN	22063	22064	22062	3/16	5/64	5/64	6
#3 x 3	23030	23030-TiN	23033	23034	23032	1/4	7/64	7/64	3
#3 x 4	23040	23040-TiN	23043	23044	23042	1/4	7/64	7/64	4
#3 x 5	23050	23050-TiN	23053	23054	23052	1/4	7/64	7/64	5
#3 x 6	23060	23060-TiN	23063	23064	23062	1/4	7/64	7/64	6
#4 x 3	24030	24030-TiN	24033	24034	24032	5/16	1/8	1/8	3
#4 x 4	24040	24040-TiN	24043	24044	24042	5/16	1/8	1/8	4
#4 x 5	24050	24050-TiN	24053	24054	24052	5/16	1/8	1/8	5
#4 x 6	24060	24060-TiN	24063	24064	24062	5/16	1/8	1/8	6
#4-1/2 x 4	24540	24540-TiN	24543	24544	24542	3/8	9/64	9/64	4
#4-1/2 x 5	24550	24550-TiN	24553	24554	24552	3/8	9/64	9/64	5
#4-1/2 x 6	24560	24560-TiN	24563	24564	24562	3/8	9/64	9/64	6
#5 x 4	25040	25040-TiN	25043	25044	25042	7/16	3/16	3/16	4
#5 x 5	25050	25050-TiN	25053	25054	25052	7/16	3/16	3/16	5
#5 x 6	25060	25060-TiN	25063	25064	25062	7/16	3/16	3/16	6
#6 x 4	26040	26040-TiN	26043	26044	26042	1/2	7/32	7/32	4
#6 x 5	26050	26050-TiN	26053	26054	26052	1/2	7/32	7/32	5
#6 x 6	26060	26060-TiN	26063	26064	26062	1/2	7/32	7/32	6
#7 x 6	27060	27060-TiN	27063	27064	27062	5/8	1/4	1/4	6
#8 x 6	28060	28060-TiN	28063	28064	28062	3/4	5/16	5/16	6

All dimensions in inches. Many tools are available with additional coatings. Please call for quote.



Combined Drill & Countersinks — Long Series (cont.)

60° Countersink Angle Solid Carbide — Long Series

Size	Product Number	A	B	C	D
		Body Dia.	Point Dia.	Point Length	OAL
#2-0 x 4	29004	1/8	0.025	0.025	4
#2-0 x 6	29006	1/8	0.025	0.025	6
#0 x 4	29014	1/8	1/32	1/32	4
#0 x 6	29016	1/8	1/32	1/32	6
#1 x 4	29104	1/8	3/64	3/64	4
#1 x 6	29106	1/8	3/64	3/64	6
#2 x 4	29204	3/16	5/64	5/64	4
#2 x 6	29206	3/16	5/64	5/64	6
#3 x 4	29304	1/4	7/64	7/64	4
#3 x 6	29306	1/4	7/64	7/64	6
#4 x 4	29404	5/16	1/8	1/8	4
#4 x 6	29406	5/16	1/8	1/8	6
#5 x 4	29504	7/16	3/16	3/16	4
#5 x 6	29506	7/16	3/16	3/16	6
#6 x 4	29604	1/2	7/32	7/32	4
#6 x 6	29606	1/2	7/32	7/32	6
#7 x 6	29706	5/8	1/4	1/4	6
#8 x 6	29806	3/4	5/16	5/16	6

All dimensions in inches.

Metric 60° Countersink Angle Cobalt — Long Series

OAL	Product Number	A	B	C
		Body Dia.	Point Dia.	Point Length
60	15061	3.5	0.75	1
60	15062	4	1	1.3
60	15063	5	1.5	2
80	15081	6	2	2.5
80	15082	8	2.5	3.1
80	15083	8	3	3.9
100	15101	4	1	1.3
100	15102	5	1.5	2
100	15103	6	2	2.5
100	15104	8	2.5	3.1
100	15105	8	3	3.9
100	15106	10	3	3.9
100	15107	10	4	5
100	15108	12	4	5
100	15109	12	5	6.3
120	15121	3.5	0.75	1
120	15122	4	1	1.3
120	15132	5	1.5	2
120	15123	5	1.6	2
120	15124	6	2	2.5
120	15125	8	2.5	3.1
120	15126	8	3	3.9
120	15127	10	3	3.9
120	15128	10	3.15	3.9
120	15129	10	4	5
120	15130	12	4	5
120	15131	14	5	6.3
150	15151	4	1	1.3
150	15152	5	1.5	2
150	15153	6	2	2.5
150	15154	8	2.5	3.1
150	15155	8	3	3.9
150	15156	10	3	3.9
150	15157	10	4	5
150	15158	12	4	5
150	15159	16	6.3	8
200	15201	5	2	2.5
200	15202	6.3	2.5	3.1
200	15203	8	3.15	3.9
200	15204	10	4	5

Point Length C	
Nominal	Tolerance
0 – 1.0 mm	+ 0.3/-0.0
1.1 – 1.4	+ 0.4/-0.0
1.5 – 2.4	+ 0.6/-0.0
2.5 – 3.9	+ 0.7/-0.0
4.0 +	+ 0.9/-0.0

All dimensions in millimeters.

