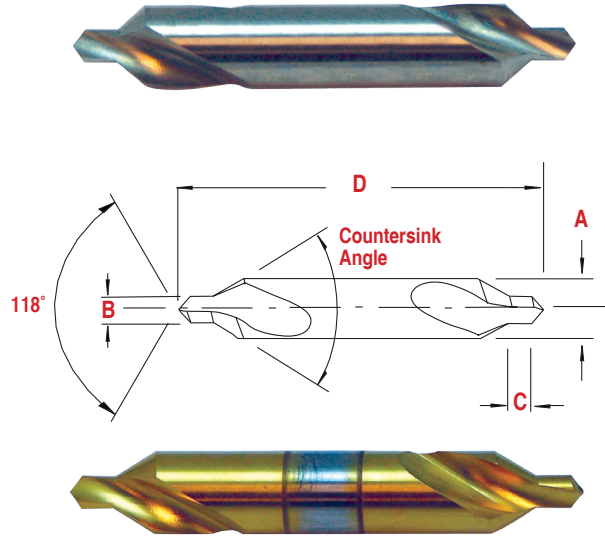




Combined Drill & Countersinks — Plain Type

KEO plain type combined drill and countersinks are used for producing center holes in components or workpieces which require machining between centers.

Also available with titanium-nitride coating or in a 5-piece set. For set information see page 46.



60° Countersink Angle

A I R C R A F T

Size	Product Number					A	B	C	D
	HSS	HSS-TiN	HSS-LH	CO	T15	Body Dia.	Point Dia.	Point Length	OAL
#5-0	10010	10010-TiN	10013	10012	10011	1/8	0.010	0.010	1-1/4
#4-0	10015	10015-TiN	10018	10017	10016	1/8	0.015	0.015	1-1/4
#3-0	10020	10020-TiN	10023	10022	10021	1/8	0.020	0.020	1-1/4
#2-0	10025	10025-TiN	10028	10027	10026	1/8	0.025	0.025	1-1/4
#0	10032	10032-TiN	10035	10034	10033	1/8	1/32	1/32	1-1/4
#1	10100	10100-TiN	10150	10142	10115	1/8	3/64	3/64	1-1/4
#2	10200	10200-TiN	10250	10242	10215	3/16	5/64	5/64	1-7/8
#3	10300	10300-TiN	10350	10342	10315	1/4	7/64	7/64	2
#4	10400	10400-TiN	10450	10442	10415	5/16	1/8	1/8	2-1/8
#4-1/2	14500	14500-TiN	14550	14542	14515	3/8	9/64	9/64	2-1/2
#5	10500	10500-TiN	10550	10542	10515	7/16	3/16	3/16	2-3/4
#6	10600	10600-TiN	10650	10642	10615	1/2	7/32	7/32	3
#7	10700	10700-TiN	10750	10742	10715	5/8	1/4	1/4	3-1/4
#8	10800	10800-TiN	10850	10842	10815	3/4	5/16	5/16	3-1/2
#9	10900	10900-TiN	10950	10942	10915	7/8	11/32	11/32	3-5/8
#10	11000	11000-TiN	11050	11042	11015	1	3/8	3/8	3-3/4

All dimensions in inches.

Many tools are available with additional coatings.

Please call for quote.

Tolerance		High	Low
OAL		+1/32	-1/16
Point Ø		+0.003	-0.0
Point Length	Point Ø < 1/32	+0.005	-0.005
	1/32 ≤ Point Ø ≤ 5/64	+0.008	-0.008
	Point > 5/64	+1/64	-1/64
Point Angle		2°	0°
CS Angles		+1°	-1°
Body Ø		+0.0	-0.002



Combined Drill & Countersinks — Plain Type (cont.)

82° Countersink Angle

Size	Product Number		A	B	C	D
	HSS	HSS-TiN	Body Dia.	Point Dia.	Point Length	OAL
#5-0	10038	10038-TiN	1/8	0.01	0.01	1-1/4
#4-0	10039	10039-TiN	1/8	0.015	0.015	1-1/4
#3-0	10040	10040-TiN	1/8	0.02	0.02	1-1/4
#2-0	10029	10029-TiN	1/8	0.025	0.025	1-1/4
#0	10036	10036-TiN	1/8	1/32	1/32	1-1/4
#1	10182	10182-TiN	1/8	3/64	3/64	1-1/4
#2	10282	10282-TiN	3/16	5/64	5/64	1-7/8
#3	10382	10382-TiN	1/4	7/64	7/64	2
#4	10482	10482-TiN	5/16	1/8	1/8	2-1/8
#4-1/2	14582	14582-TiN	3/8	9/64	9/64	2-1/2
#5	10582	10582-TiN	7/16	3/16	3/16	2-3/4
#6	10682	10682-TiN	1/2	7/32	7/32	3
#7	10782	10782-TiN	5/8	1/4	1/4	3-1/4
#8	10882	10882-TiN	3/4	5/16	5/16	3-1/2
#9	10982	10982-TiN	7/8	11/32	11/32	3-5/8
#10	11082	11082-TiN	1	3/8	3/8	3-3/4

AIRCRAFT

Tolerance		High	Low
OAL		+1/32	-1/16
Point Ø		+0.003	-0.0
Point Length	Point Ø < 1/32	+0.005	-0.005
	1/32 ≤ Point Ø ≤ 5/64	+0.008	-0.008
	Point > 5/64	+1/64	-1/64
Point Angle		2°	0°
CS Angles		+1°	-1°
Body Ø		+0.0	-0.002

90° Countersink Angle

Size	Product Number		A	B	C	D
	HSS	HSS-TiN	Body Dia.	Point Dia.	Point Length	OAL
#5-0	10014	10014-TiN	1/8	0.010	0.010	1-1/4
#4-0	10019	10019-TiN	1/8	0.015	0.015	1-1/4
#3-0	10024	10024-TiN	1/8	0.020	0.020	1-1/4
#2-0	10030	10030-TiN	1/8	0.025	0.025	1-1/4
#0	10037	10037-TiN	1/8	1/32	1/32	1-1/4
#1	10190	10190-TiN	1/8	3/64	3/64	1-1/4
#2	10290	10290-TiN	3/16	5/64	5/64	1-7/8
#3	10390	10390-TiN	1/4	7/64	7/64	2
#4	10490	10490-TiN	5/16	1/8	1/8	2-1/8
#4-1/2	14590	14590-TiN	3/8	9/64	9/64	2-1/2
#5	10590	10590-TiN	7/16	3/16	3/16	2-3/4
#6	10690	10690-TiN	1/2	7/32	7/32	3
#7	10790	10790-TiN	5/8	1/4	1/4	3-1/4
#8	10890	10890-TiN	3/4	5/16	5/16	3-1/2
#9	10990	10990-TiN	7/8	11/32	11/32	3-5/8
#10	11090	11090-TiN	1	3/8	3/8	3-3/4

AIRCRAFT

Tolerance		High	Low
OAL		+1/32	-1/16
Point Ø		+0.003	-0.0
Point Length	Point Ø < 1/32	+0.005	-0.005
	1/32 ≤ Point Ø ≤ 5/64	+0.008	-0.008
	Point > 5/64	+1/64	-1/64
Point Angle		2°	0°
CS Angles		+1°	-1°
Body Ø		+0.0	-0.002

All dimensions in inches.

See page 46 for set information.

Many tools are available with additional coatings.

Please call for quote.