

# DRILLS - TAPS - DIES

## AIRCRAFT GRADE SUPER COBALT DRILLS

These super cobalt hi-speed jobber length aircraft drill bits feature heavy duty construction to Type J aircraft specifications. Use to drill hard, tough metals, stainless steels, iron based and titanium alloys, and certain plastics. Hardness of cobalt permits speeds 30% over regular H.S.S. drills. Cobalt drills demand rigidly held, positive feed drilling equipment.

Part No.	Drill Size	Price Ea.	Part No.	Drill Size	Price Ea.
12-04212	42	.	12-04221	19	.
12-04213	41	.	12-04222	12	.
12-04214	40	.	12-04223	10	.
12-04215	36	.	12-04224	"D"	.
12-04216	33	.	12-04225	1/8"	.
12-04217	30	.	12-04226	5/32"	.
12-04218	28	.	12-04227	3/16"	.
12-04219	27	.	12-04228	1/4"	.
12-04220	23	.	12-04229	5/16"	.
12-14221	21	.	12-04235	#35	.

## 12" LONG DRILL BITS

These 12" long drill bits are for use with standard electric drills for the hard to reach jobs.

Drill Size	Size	Part No.	Price
3/32"	(.094")	12-05200	.
1/8"	(.125")	12-05300	.
3/16"	(.188")	12-05400	.
#10	(.194")	12-05500	.
1/4"	(.250")	12-05600	.

## MALE THREADED DRILL BITS

Male threaded drill bits of high speed steel screw into female spindle of angle drill or snake drill.

Drill Size	10-32 Thread	Price	1/4-28 Thread	Price
#10	12-05701	.	12-05702	.
#20	12-05801	.	12-05802	.
#21	12-05901	.	12-05902	.
#30	12-06001	.	12-06002	.
#40	12-06101	.	12-06102	.

## ANGLE DRILL ATTACHMENT

Quickly connects to any drill chuck. Makes a convenient, inexpensive close-quarter tool. 3/16 drill capacity. Specify threaded spindle size: 5/16-24 (P/N 12-18503), 1/4-28 (P/N 12-18501) or 10-32 (P/N 12-18502) .....

Angle Drill w/ Key Chuck (1/4-28 Only).....P/N 12-18511 .....

**ANGLE DRILL KIT** - Includes tool case, 24" flexible attachment, 4 threaded drills, collet adapter, 90° angle drill, straight drill attachment, 4 collet drills. P/N 12-18505 .....

## SNAKE DRILL ATTACHMENT

Heavy-duty 90° flexible drilling attachment. Overall length 26". 3 Female threaded spindle sizes.  
1/4-28 .....P/N 12-06500 .....

W/Key Chuck (5/32"cap.).....P/N 12-06800 .....

## CONE JAW CHUCK

Heavy duty yet mini size fits any angle drill or attachment with 1/4" x 28 threads. It's just what you need for close quarter drilling. Features: •Capacity from 1/16" to 1/4" 3/4" length, 0.13 lbs •Wrench included. P/N 12-00245 .....

## ANGLE DRILL COLLET & CHUCK KIT

This 10-piece kit gives you 3 different methods of drilling in tight spots. Each shank is 1/4" x 28 which will thread into most drill spindles that angle attachments and angle drills are supplied with. 0.25 lb. KIT INCLUDES: • (4) #200 collets & adapters - drill sizes 11, 21, 30, & 40 • (4) threaded drill bits (1-1/4" length) - drill sizes: 10,21,30,40 • (1) Cone jaw chuck Model TP258 .....P/N 12-00368 .....

## HAND THREAD TAPS

There are three basic types of straight thread taps:  
**PLUG TAPS** - used for ordinary threading and have a 3 to 5-thread chamfer, or relief, at the point.  
**TAPER TAPS** - have 8 to 10 threads chamfered for easy starting and are used for tough threading jobs.  
**BOTTOMING TAPS** - with their short chamfer (1 to 1-1/2 threads), are used where the thread must go to the bottom of the hole.  
**Specify Plug, Taper or Bottoming Tap.**

PLUG TAPS			
Die Size	Left-Hand	Right-Hand	
6-32	12-07601	12-07701	.
8-32	12-07801	12-07901	.
10-32	12-08001	12-08101	.
1/4-28	12-08201	12-08301	.
5/16-24	12-08401	12-08501	.
3/8-24	12-08601	12-08701	.

  

TAPER TAPS			
Die Size	Left-Hand	Right-Hand	
6-32	12-07602	12-07702	.
8-32	12-07802	12-07902	.
10-32	--	12-08102	.
1/4-28	12-08202	12-08302	.
5/16-24	12-08402	12-08502	.
3/8-24	--	12-08702	.

  

BOTTOMING TAPS (HIGH-SPEED STEEL)			
Die Size	Left-Hand	Right-Hand	
6-32	--	12-07703	.
8-32	--	12-07903	.
10-32	12-08003	12-08103	.
1/4-28	--	12-08303	.
5/16-24	--	12-08503	.
3/8-24	--	12-08703	.

## DRILLING & TAPPING SETS

13-Piece drilling and tapping set made from special high speed steel. Contains 6 screw machine length drill bits (Nos. 43, 35, 29, 25, 21 and 7), 16 NC taps (4-40, 6-32, 8-32, 10-24, 10-32 and 1/4-20) and one tap wrench. Choice of 135° split point or spiral point drill bits. Set with Split-Point Drill Bits. P/N 41095 .....

## ADJUSTABLE ROUND SPLIT DIES

Die Size	Left-Hand	Right-Hand	
6-32	12-07001	12-07002	.
8-32	12-07101	12-07102	.
10-32	12-07201	12-07202	.
1/4-28	12-07301	12-07302	.
5/16-24	12-07401	12-07402	.
3/8-24	12-07501	12-07502	.

## ROUND "KNOCK-OUT" PUNCHES & DIES

Save hours of tedious drilling, sawing, filing and hand-fitting. Produce clean, true holes for sockets, controls, instruments. Cut clean, burr-free holes with these easy-to-use tools. Can be operated by ordinary wrench. One punch required for each hole size.

Punch Size	Model 730 P/N	Price	Model 730 P/N	Punch Size	Price
1/2"	12-20905	.	12-20945	1-3/8"	.
5/8"	12-20910	.	12-20950	1-1/2"	.
3/4"	12-20915	.	12-20955	1-5/8"	.
7/8"	12-20920	.	12-20925	1"	.
2"	12-20970	.	12-20975	2-1/4"	.
1-1/8"	12-20930	.	3-1/8"	Comes w/ 304AVBB	.
1-7/32"	12-20935	.		12-20980	.
1-1/4"	12-20940	.			.

Additional Sizes Available. Drive punches with a ball bearing drive for faster, easier hand operation are available for the 2-1/4" & 3-1/8" knock-out punches.

Drive for 2-1/4" Punch .....P/N #304AVBB.....  
Drive for 3-1/8" Punch .....P/N #1433AVBB.....  
**DISCOUNT: 12 UNITS - LESS 15% (ASSORTED)**

## RAPTOR X81

Gives you the choice of using screw machine drills or threaded shank tools. Three flex collets encompass a range of 3/32-1/4 shank tools. A simple attachment immediately converts the tool to use threaded drills. Recommended to use short screw machined drills for special sizes and metric sizes, which is not possible with threaded series. Features: \* More power \* Greater Torque P/N 12-02251 .....

