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HSS TOOL DATA

Suggested Drill Bits To Be used For Various Types Of Materials:

MATERIAL	DRILL STYLE	ANGLE POINT	PRESSURE TO APPLY	COOLANT OR LUBRICANT
CARBON STEEL DUCTILE STEEL BRASS BRONZE	GENERAL PURPOSE DRILLS	118° POINT	MEDIUM TO HEAVY	OIL or WATER SOLUTION
CARBON STEEL ALUMINUM AUSTENETIC STAINLESS STEEL	HEAVY DUTY AND TITANIUM	135° SPLIT POINT	MEDIUM TO HEAVY	OIL or ACTIVATED SOLUTION
STAINLESS STEEL SERIES C CAST IRON	COBALT DRILLS	135° SPLIT POINT	MEDIUM TO HEAVY	OIL or ACTIVATED SOLUTION
HARD STEEL HEAT TREATED ALLOYS	HARD BODY CARBIDE TIPPED AND COBALT	130° & 135° SPLIT POINT	HEAVY	OIL or ACTIVATED SOLUTION

Chemical Analysis Of The Three Primary High Speed Steels Used To Manufacture HSS Drill Bits:

TYPE	CHEMICAL COMPOSITION						ROCKWELL C HARDNESS	TERM
	CARBON	TUNGSTEN	MOLYBDENUM	CHROMIUM	VANADIUM	COBALT		
M2	0.85	6.00	5.00	4.00	1.90	-	63-65	HSS
M35	1.10	1.50	9.50	1.15	1.15	5.00	65-67	COBALT
M42	1.10	1.50	9.50	1.15	1.15	8.00	65-67	SUPER COBALT

M2 "HSS" is the standard material used for all BBI drill bits. M2 has good red-hardness and retains its cutting edge longer than other general purpose high speed steels because of its increased quantity of tungsten (dull red heat up to 1000° F without loss of hardness or rapid dulling of cutting edge).

M2 is generally favored for high production machine work.

M35 M35 is the standard cobalt material used for most BBI cobalt drill bits. M35 has excellent resistance to abrasion and very good red-hardness for working difficult materials.

M42 M42 "Super Cobalt" is American made premium cobalt material used for higher performance BBI cobalt drill bits. M42 has the best resistance to abrasion and red-hardness.

COBALT DRILLS

Made of the finest Cobalt steel obtainable and furnished with a 135° split point, these drills are designed for use in machining hard, tough materials beyond the normal cutting capabilities of regular high speed steel tools. These include work-hardening grades of stainless steels, titanium, high temperature alloys, and many other heat treated materials. In addition, due to their resistant properties, they can also be used at higher speeds to drill abrasive plastics, cast iron, and other types of difficult to machine work materials.

THE TITANIUM ADVANTAGE

The Titanium Nitrate coating extends the life of the twist drill by up to 4 times. Titanium drills are mostly used in production because of their extended life. The Titanium Nitrate coating acts as a THERMAL BARRIER between the high speed drill and the material being drilled. This feature improves the speed and the drilling time by 40% to 50% over a standard HSS drill bit. Titanium drills are manufactured with a 135° split point for fast penetration and accurate starting without the use of a center punch. The precision ground point, flute, body clearances, and drill diameters are especially designed for ultimate accuracy and performance.

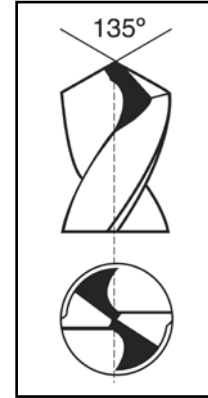
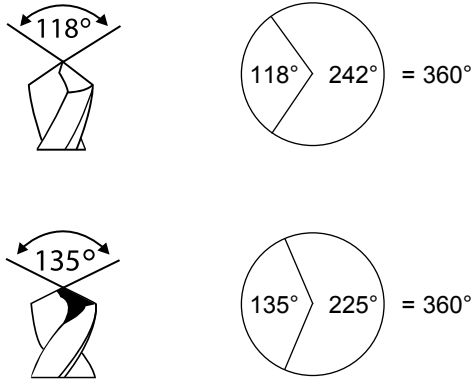


Always Use Protection When Drilling.

Always Use High RPM For Smaller Diameters and Lower RPM For Larger Diameters.

HSS TOOL DATA

Understanding High Speed Steel Drill Bits:



Split Point

An extra cutting angle on the 2 cutting edges of a drill bit.

Split Point is designated here in black.

Split Pointing is almost always reserved for 135° HSS drill bits.

118° drill bits have a sharp point and are common on standard / general purpose drill bits where light duty work is needed. Because of this sharp point, 118° drill bits will tend to “walk” or spin like a top on flat surfaces. This is why a centering drill or center punch is normally used to start off holes. If the operator has very steady hands, then the 118° drill bit can be used without center punching.

135° drill bits have a flatter point which gives the drill bit more cutting surface area. When more surface area cuts the steel, drilling is faster.



Understanding Nomenclature Vis-a-vis Size:

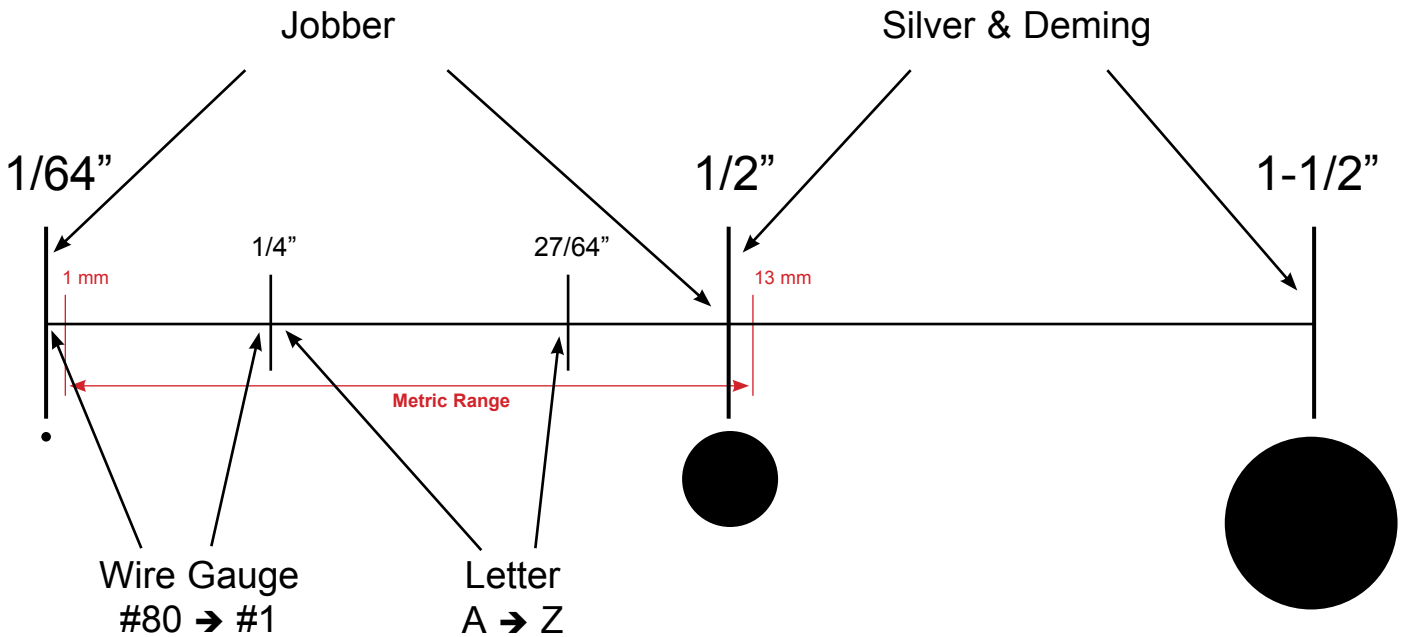


Chart Not To Scale.



Jobber Drills - HEAVY DUTY - BLACK OXIDE FINISH M2 HSS

- ◆ Jobber Length
- ◆ 135° Split Point
- ◆ Ground Flute
- ◆ Straight Shank
- ◆ Heavy Duty Web
- ◆ Black Oxide Finish
- ◆ M2 HSS

- ➔ Cast Iron
- ➔ Steel
- ➔ Steel Forging
- ➔ Light Gauge Stainless Steel



Part #	Size	Dec.	OAL	Flute	Qty.	Part #	Size	Dec.	OAL	Flute	Qty.
C21100	1/16"	.0625	1-7/8"	7/8"	12	C21115	19/64"	.2969	4-3/8"	3-1/16"	12
C21101	5/64"	.0781	2"	1"	12	C21116	5/16"	.3125	4-1/2"	3-3/16"	12
C21102	3/32"	.0938	2-1/4"	1-1/4"	12	C21117	21/64"	.3281	4-5/8"	3-5/16"	6
C21103	7/64"	.1094	2-5/8"	1-1/2"	12	C21118	11/32"	.3438	4-3/4"	3-7/16"	6
C21104	1/8"	.1250	2-3/4"	1-5/8"	12	C21119	23/64"	.3594	4-7/8"	3-1/2"	6
C21105	9/64"	.1406	2-7/8"	1-3/4"	12	C21120	3/8"	.3750	5"	3-5/8"	6
C21106	5/32"	.1562	3-1/8"	2"	12	C21121	25/64"	.3906	5-1/8"	3-3/4"	6
C21107	11/64"	.1719	3-1/4"	2-1/8"	12	C21122	13/32"	.4062	5-1/4"	3-7/8"	6
C21108	3/16"	.1875	3-1/2"	2-5/16"	12	C21123	27/64"	.4219	5-3/8"	3-15/16"	6
C21109	13/64"	.2031	3-5/8"	2-7/16"	12	C21124	7/16"	.4375	5-1/2"	4-1/16"	6
C21110	7/32"	.2188	3-3/4"	2-1/2"	12	C21125	29/64"	.4531	5-5/8"	4-3/16"	6
C21111	15/64"	.2344	3-7/8"	2-5/8"	12	C21126	15/32"	.4688	5-3/4"	4-5/16"	6
C21112	1/4"	.2500	4"	2-3/4"	12	C21127	31/64"	.4844	5-7/8"	4-3/8"	6
C21113	17/64"	.2656	4-1/8"	2-7/8"	12	C21128	1/2"	.5000	6"	4-1/2"	6
C21114	9/32"	.2812	4-1/4"	2-15/16"	12						

Wire Gauge Drills - HEAVY DUTY - BLACK OXIDE FINISH M2 HSS

- ◆ Wire Gauge
- ◆ 135° Split Point
- ◆ Ground Flute
- ◆ Straight Shank
- ◆ Heavy Duty Web
- ◆ Black Oxide Finish
- ◆ M2 HSS

- ➔ Cast Iron
- ➔ Steel
- ➔ Steel Forging
- ➔ Light Gauge Stainless Steel



NOTE:
SIZES 40 → 60
HAVE NO
SPLIT POINT.

Part #	Size	Dec.	OAL	Flute	Qty.	Part #	Size	Dec.	OAL	Flute	Qty.
C21150	1	.2280	3-7/8"	2-5/8"	12	C21180	31	.1200	2-3/4"	1-5/8"	12
C21151	2	.2210	3-7/8"	2-5/8"	12	C21181	32	.1160	2-3/4"	1-5/8"	12
C21152	3	.2130	3-3/4"	2-1/2"	12	C21182	33	.1130	2-5/8"	1-1/2"	12
C21153	4	.2090	3-3/4"	2-1/2"	12	C21183	34	.1110	2-5/8"	1-1/2"	12
C21154	5	.2055	3-3/4"	2-1/2"	12	C21184	35	.1100	2-5/8"	1-1/2"	12
C21155	6	.2040	3-3/4"	2-1/2"	12	C21185	36	.1065	2-1/2"	1-7/16"	12
C21156	7	.2010	3-5/8"	2-7/16"	12	C21186	37	.1040	2-1/2"	1-7/16"	12
C21157	8	.1990	3-5/8"	2-7/16"	12	C21187	38	.1015	2-1/2"	1-7/16"	12
C21158	9	.1960	3-5/8"	2-7/16"	12	C21188	39	.0995	2-3/8"	1-3/8"	12
C21159	10	.1935	3-5/8"	2-7/16"	12	C21189	40	.0980	2-3/8"	1-3/8"	12
C21160	11	.1910	3-1/2"	2-5/16"	12	C21190	41	.0960	2-3/8"	1-3/8"	12
C21161	12	.1890	3-1/2"	2-5/16"	12	C21191	42	.0935	2-1/4"	1-1/4"	12
C21162	13	.1850	3-1/2"	2-5/16"	12	C21192	43	.0890	2-1/4"	1-1/4"	12
C21163	14	.1820	3-3/8"	2-3/16"	12	C21193	44	.0860	2-1/8"	1-1/8"	12
C21164	15	.1800	3-3/8"	2-3/16"	12	C21194	45	.0820	2-1/8"	1-1/8"	12
C21165	16	.1770	3-3/8"	2-3/16"	12	C21195	46	.0810	2-1/8"	1-1/8"	12
C21166	17	.1730	3-3/8"	2-3/16"	12	C21196	47	.0785	2"	1"	12
C21167	18	.1695	3-1/4"	2-1/8"	12	C21197	48	.0760	2"	1"	12
C21168	19	.1660	3-1/4"	2-1/8"	12	C21198	49	.0730	2"	1"	12
C21169	20	.1610	3-1/4"	2-1/8"	12	C21199	50	.0700	2"	1"	12
C21170	21	.1590	3-1/4"	2-1/8"	12	C21200	51	.0670	2"	1"	12
C21171	22	.1570	3-1/8"	2"	12	C21201	52	.0635	1-7/8"	7/8"	12
C21172	23	.1540	3-1/8"	2"	12	C21202	53	.0595	1-7/8"	7/8"	12
C21173	24	.1520	3-1/8"	2"	12	C21203	54	.0550	1-7/8"	7/8"	12
C21174	25	.1495	3"	1-7/8"	12	C21204	55	.0520	1-7/8"	7/8"	12
C21175	26	.1470	3"	1-7/8"	12	C21205	56	.0465	1-3/4"	3/4"	12
C21176	27	.1440	3"	1-7/8"	12	C21206	57	.0430	1-3/4"	3/4"	12
C21177	28	.1405	2-7/8"	1-3/4"	12	C21207	58	.0420	1-5/8"	11/16"	12
C21178	29	.1360	2-7/8"	1-3/4"	12	C21208	59	.0410	1-5/8"	11/16"	12
C21179	30	.1285	2-3/4"	1-5/8"	12	C21209	60	.0400	1-5/8"	11/16"	12



Letter Drills - HEAVY DUTY - BLACK OXIDE FINISH M2 HSS

Part #	Size	Dec.	OAL	Flute	Qty.	Part #	Size	Dec.	OAL	Flute	Qty.
C21250	A	.2340	3-7/8"	2-5/8"	12	C21263	N	.3020	4-3/8"	3-1/16"	6
C21251	B	.2380	4"	2-3/4"	12	C21264	O	.3160	4-1/2"	3-3/16"	6
C21252	C	.2420	4"	2-3/4"	12	C21265	P	.3230	4-5/8"	3-5/16"	6
C21253	D	.2460	4"	2-3/4"	12	C21266	Q	.3320	4-3/4"	3-7/16"	6
C21254	E	.2500	4"	2-3/4"	12	C21267	R	.3390	4-3/4"	3-7/16"	6
C21255	F	.2570	4-1/8"	2-7/8"	12	C21268	S	.3480	4-7/8"	3-1/2"	6
C21256	G	.2610	4-1/8"	2-7/8"	12	C21269	T	.3580	4-7/8"	3-1/2"	6
C21257	H	.2660	4-1/8"	2-7/8"	12	C21270	U	.3680	5"	3-5/8"	6
C21258	I	.2720	4-1/8"	2-7/8"	12	C21271	V	.3770	5"	3-5/8"	6
C21259	J	.2770	4-1/8"	2-7/8"	12	C21272	W	.3860	5-1/8"	3-3/4"	6
C21260	K	.2810	4-1/4"	2-15/16"	12	C21273	X	.3970	5-1/8"	3-3/4"	6
C21261	L	.2900	4-1/4"	2-15/16"	6	C21274	Y	.4040	5-1/4"	3-7/8"	6
C21262	M	.2950	4-3/8"	3-1/16"	6	C21275	Z	.4040	5-1/4"	3-7/8"	6

- ◆ Jobber Length
- ◆ 135° Split Point
- ◆ Ground Flute
- ◆ Straight Shank
- ◆ Heavy Duty Web
- ◆ Black Oxide Finish
- ◆ M2 HSS

- Cast Iron
- Steel
- Steel Forging
- Light Gauge Stainless Steel



Silver & Deming - 1/2" Shank - M2 HSS

Part #	Size	Dec.	OAL	Flute	Qty.	Part #	Size	Dec.	OAL	Flute	Qty.
C21300	33/64"	.5156	6"	2-3/4"	1	C21320	53/64"	.8281	6"	2-3/4"	1
C21301	17/32"	.5312	6"	2-3/4"	1	C21321	27/32"	.8438	6"	2-3/4"	1
C21302	35/64"	.5469	6"	2-3/4"	1	C21322	55/64"	.8594	6"	2-3/4"	1
C21303	9/16"	.5625	6"	2-3/4"	1	C21323	7/8"	.8750	6"	2-3/4"	1
C21304	37/64"	.5781	6"	2-3/4"	1	C21324	57/64"	.8906	6"	2-3/4"	1
C21305	19/32"	.5938	6"	2-3/4"	1	C21325	29/32"	.9062	6"	2-3/4"	1
C21306	39/64"	.6094	6"	2-3/4"	1	C21326	59/64"	.9219	6"	2-3/4"	1
C21307	5/8"	.6250	6"	2-3/4"	1	C21327	15/16"	.9375	6"	2-3/4"	1
C21308	41/64"	.6406	6"	2-3/4"	1	C21328	61/64"	.9531	6"	2-3/4"	1
C21309	21/32"	.6562	6"	2-3/4"	1	C21329	31/32"	.9688	6"	2-3/4"	1
C21310	43/64"	.6719	6"	2-3/4"	1	C21330	63/64"	.9844	6"	2-3/4"	1
C21311	11/16"	.6875	6"	2-3/4"	1	C21331	1"	1.0000	6"	2-3/4"	1
C21312	45/64"	.7031	6"	2-3/4"	1	C21332	1-1/16"	1.0625	6"	2-3/4"	1
C21313	23/32"	.7188	6"	2-3/4"	1	C21333	1-1/8"	1.1250	6"	2-3/4"	1
C21314	47/64"	.7344	6"	2-3/4"	1	C21334	1-3/16"	1.1875	6"	2-3/4"	1
C21315	3/4"	.7500	6"	2-3/4"	1	C21335	1-1/4"	1.2500	6"	2-3/4"	1
C21316	49/64"	.7656	6"	2-3/4"	1	C21336	1-5/16"	1.3125	6"	2-3/4"	1
C21317	25/32"	.7812	6"	2-3/4"	1	C21337	1-3/8"	1.3750	6"	2-3/4"	1
C21318	51/64"	.7969	6"	2-3/4"	1	C21338	1-1/2"	1.5000	6"	2-3/4"	1
C21319	13/16"	.8125	6"	2-3/4"	1						

- ◆ 6" Length
- ◆ 118° Point
- ◆ Ground Flute
- ◆ 1/2" Shank
- ◆ Black Oxide Finish
- ◆ M2 HSS

- Cast Iron
- Steel
- Steel Forging
- Light to Medium Materials



- ◆ Stub Length
- ◆ 135° Split Point
- ◆ Ground Flute
- ◆ Straight Shank
- ◆ Heavy Duty Web
- ◆ Black Oxide Finish
- ◆ M2 HSS

- Cast Iron
- Steel
- Steel Forging
- Stainless Steel
- Sheet Metal
- Automotive



STUB Fractional - HEAVY DUTY

Part #	Size	Dec.	OAL	Flute	Qty.
C21350	1/16"	.0625	1-5/8"	5/8"	12
C21351	5/64"	.0781	1-11/16"	11/16"	12
C21352	3/32"	.0938	1-3/4"	3/4"	12
C21353	7/64"	.1094	1-13/16"	13/16"	12
C21354	1/8"	.1250	1-7/8"	7/8"	12
C21355	9/64"	.1406	1-15/16"	15/16"	12
C21356	5/32"	.1562	2-1/16"	1"	12
C21357	11/64"	.1719	2-1/8"	1-1/16"	12
C21358	3/16"	.1875	2-3/16"	1-1/8"	12
C21359	13/64"	.2031	2-1/4"	1-3/16"	12
C21360	7/32"	.2188	2-3/8"	1-1/4"	12
C21361	15/64"	.2344	2-7/16"	1-5/16"	12
C21362	1/4"	.2500	2-1/2"	1-3/8"	12
C21363	17/64"	.2656	2-5/8"	1-7/16"	12
C21364	9/32"	.2812	2-11/16"	1-1/2"	12
C21365	19/64"	.2969	2-3/4"	1-9/16"	12
C21366	5/16"	.3125	2-13/16"	1-5/8"	12
C21367	21/64"	.3281	2-15/16"	1-11/16"	6
C21368	11/32"	.3438	3"	1-11/16"	6
C21369	23/64"	.3594	3-1/16"	1-3/4"	6
C21370	3/8"	.3750	3-1/8"	1-13/16"	6
C21371	25/64"	.3906	3-1/4"	1-7/8"	6
C21372	13/32"	.4062	3-5/16"	1-15/16"	6
C21373	27/64"	.4219	3-3/8"	2"	6
C21374	7/16"	.4375	3-7/16"	2-1/16"	6
C21375	29/64"	.4531	3-9/16"	2-1/8"	6
C21376	15/32"	.4688	3-5/8"	2-1/8"	6
C21377	31/64"	.4844	3-11/16"	2-3/16"	6
C21378	1/2"	.5000	3-3/4"	2-1/4"	6



Double End - M2 HSS BLACK

Part #	Size	Dec.	OAL	Flute	Qty.
C21450	1/8"	.1250	2"	1/2"	12
C21451	#30	.1285	2"	1/2"	12

- ◆ Heavy Duty
- ◆ 135° Split Point
- ◆ M2 HSS
- ◆ Bright and Black Finish



- Sheet Metal
- Automotive



- ◆ Straight Shank
- ◆ 135° Split Point
- ◆ Ground Flute
- ◆ Extra Flexibility
- ◆ Heavy Duty Web
- ◆ Black Oxide Finish
- ◆ M2 HSS



- Steel
- Medium Alloys

6" Aircraft - M2 HSS

Part #	Size	Dec.	OAL	Flute	Qty.
C21400	1/16"	.0625	6"	7/8"	6
C21401	1/8"	.1250	6"	1-5/8"	6
C21402	9/64"	.1406	6"	1-3/4"	6
C21403	5/32"	.1562	6"	2"	6
C21404	11/64"	.1719	6"	2-1/8"	6
C21405	3/16"	.1875	6"	2-5/16"	6
C21406	13/64"	.2031	6"	2-7/16"	6
C21407	7/32"	.2188	6"	2-1/2"	6
C21408	15/64"	.2344	6"	2-5/8"	6
C21409	1/4"	.2500	6"	2-3/4"	6
C21410	17/64"	.2656	6"	2-7/8"	6
C21411	9/32"	.2812	6"	2-15/16"	6
C21412	5/16"	.3125	6"	3-3/16"	1
C21413	11/32"	.3438	6"	3-7/16"	1
C21414	3/8"	.3750	6"	3-5/8"	1
C21415	7/16"	.4375	6"	4-1/16"	1
C21416	1/2"	.5000	6"	4-1/2"	1

12" Aircraft - M2 HSS

Part #	Size	Dec.	OAL	Flute	Qty.
C21417	1/8"	.1250	12"	1-5/8"	1
C21418	5/32"	.1562	12"	2"	1
C21419	3/16"	.1875	12"	2-5/16"	1
C21420	7/32"	.2188	12"	2-1/2"	1
C21421	1/4"	.2500	12"	2-3/4"	1
C21422	9/32"	.2812	12"	2-15/16"	1
C21423	5/16"	.3125	12"	3-3/16"	1
C21424	11/32"	.3438	12"	3-7/16"	1
C21425	3/8"	.3750	12"	3-5/8"	1
C21426*	7/16"	.4375	12"	4-1/16"	1
C21427*	1/2"	.5000	12"	4-1/2"	1

* 3/8" Shank



Cobalt Jobber Drills - HEAVY DUTY - M35 COBALT

Part #	Size	Dec.	OAL	Flute	Qty.	Part #	Size	Dec.	OAL	Flute	Qty.
C22004	1/16"	.0625	1-7/8"	7/8"	12	C22019	19/64"	.2969	4-3/8"	3-1/16"	12
C22005	5/64"	.0781	2"	1"	12	C22020	5/16"	.3125	4-1/2"	3-3/16"	12
C22006	3/32"	.0938	2-1/4"	1-1/4"	12	C22021	21/64"	.3281	4-5/8"	3-5/16"	6
C22007	7/64"	.1094	2-5/8"	1-1/2"	12	C22022	11/32"	.3438	4-3/4"	3-7/16"	6
C22008	1/8"	.1250	2-3/4"	1-5/8"	12	C22023	23/64"	.3594	4-7/8"	3-1/2"	6
C22009	9/64"	.1406	2-7/8"	1-3/4"	12	C22024	3/8"	.3750	5"	3-5/8"	6
C22010	5/32"	.1562	3-1/8"	2"	12	C22025	25/64"	.3906	5-1/8"	3-3/4"	6
C22011	11/64"	.1719	3-1/4"	2-1/8"	12	C22026	13/32"	.4062	5-1/4"	3-7/8"	6
C22012	3/16"	.1875	3-1/2"	2-5/16"	12	C22027	27/64"	.4219	5-3/8"	3-15/16"	6
C22013	13/64"	.2031	3-5/8"	2-7/16"	12	C22028	7/16"	.4375	5-1/2"	4-1/16"	6
C22014	7/32"	.2188	3-3/4"	2-1/2"	12	C22029	29/64"	.4531	5-5/8"	4-3/16"	6
C22015	15/64"	.2344	3-7/8"	2-5/8"	12	C22030	15/32"	.4688	5-3/4"	4-5/16"	6
C22016	1/4"	.2500	4"	2-3/4"	12	C22031	31/64"	.4844	5-7/8"	4-3/8"	6
C22017	17/64"	.2656	4-1/8"	2-7/8"	12	C22032	1/2"	.5000	6"	4-1/2"	6
C22018	9/32"	.2812	4-1/4"	2-15/16"	12						

- ◆ Jobber Length
- ◆ 135° Split Point
- ◆ Ground Flute
- ◆ Straight Shank
- ◆ Heavy Duty Web
- ◆ Gold Finish
- ◆ M35 Cobalt

- Hardened Steel
- Stainless Steel
- High Temp Alloys
- Heat Treated Materials
- Abrasive Plastics

Cobalt Wire Gauge Drills - HEAVY DUTY - M35 COBALT

Part #	Size	Dec.	OAL	Flute	Qty.	Part #	Size	Dec.	OAL	Flute	Qty.
C22150	1	.2280	3-7/8"	2-5/8"	12	C22180	31	.1200	2-3/4"	1-5/8"	12
C22151	2	.2210	3-7/8"	2-5/8"	12	C22181	32	.1160	2-3/4"	1-5/8"	12
C22152	3	.2130	3-3/4"	2-1/2"	12	C22182	33	.1130	2-5/8"	1-1/2"	12
C22153	4	.2090	3-3/4"	2-1/2"	12	C22183	34	.1110	2-5/8"	1-1/2"	12
C22154	5	.2055	3-3/4"	2-1/2"	12	C22184	35	.1100	2-5/8"	1-1/2"	12
C22155	6	.2040	3-3/4"	2-1/2"	12	C22185	36	.1065	2-1/2"	1-7/16"	12
C22156	7	.2010	3-5/8"	2-7/16"	12	C22186	37	.1040	2-1/2"	1-7/16"	12
C22157	8	.1990	3-5/8"	2-7/16"	12	C22187	38	.1015	2-1/2"	1-7/16"	12
C22158	9	.1960	3-5/8"	2-7/16"	12	C22188	39	.0995	2-3/8"	1-3/8"	12
C22159	10	.1935	3-5/8"	2-7/16"	12	C22189	40	.0980	2-3/8"	1-3/8"	12
C22160	11	.1910	3-1/2"	2-5/16"	12	C22190	41	.0960	2-3/8"	1-3/8"	12
C22161	12	.1890	3-1/2"	2-5/16"	12	C22191	42	.0935	2-1/4"	1-1/4"	12
C22162	13	.1850	3-1/2"	2-5/16"	12	C22192	43	.0890	2-1/4"	1-1/4"	12
C22163	14	.1820	3-3/8"	2-3/16"	12	C22193	44	.0860	2-1/8"	1-1/8"	12
C22164	15	.1800	3-3/8"	2-3/16"	12	C22194	45	.0820	2-1/8"	1-1/8"	12
C22165	16	.1770	3-3/8"	2-3/16"	12	C22195	46	.0810	2-1/8"	1-1/8"	12
C22166	17	.1730	3-3/8"	2-3/16"	12	C22196	47	.0785	2"	1"	12
C22167	18	.1695	3-1/4"	2-1/8"	12	C22197	48	.0760	2"	1"	12
C22168	19	.1660	3-1/4"	2-1/8"	12	C22198	49	.0730	2"	1"	12
C22169	20	.1610	3-1/4"	2-1/8"	12	C22199	50	.0700	2"	1"	12
C22170	21	.1590	3-1/4"	2-1/8"	12	C22200	51	.0670	2"	1"	12
C22171	22	.1570	3-1/8"	2"	12	C22201	52	.0635	1-7/8"	7/8"	12
C22172	23	.1540	3-1/8"	2"	12	C22202	53	.0595	1-7/8"	7/8"	12
C22173	24	.1520	3-1/8"	2"	12	C22203	54	.0550	1-7/8"	7/8"	12
C22174	25	.1495	3"	1-7/8"	12	C22204	55	.0520	1-7/8"	7/8"	12
C22175	26	.1470	3"	1-7/8"	12	C22205	56	.0465	1-3/4"	3/4"	12
C22176	27	.1440	3"	1-7/8"	12	C22206	57	.0430	1-3/4"	3/4"	12
C22177	28	.1405	2-7/8"	1-3/4"	12	C22207	58	.0420	1-5/8"	11/16"	12
C22178	29	.1360	2-7/8"	1-3/4"	12	C22208	59	.0410	1-5/8"	11/16"	12
C22179	30	.1285	2-3/4"	1-5/8"	12	C22209	60	.0400	1-5/8"	11/16"	12



NOTE:
SIZES 40 → 60
HAVE NO
SPLIT POINT.



Cobalt Silver & Deming - 1/2" Shank - M35 COBALT

- ◆ 6" Length
- ◆ 118° Split Point
- ◆ Ground Flute
- ◆ 3-Flat Round 1/2" Shank
- ◆ Gold Finish
- ◆ M35 Cobalt

- Cast Iron
- Steel
- Steel Forging
- Stainless Steel

Part #	Size	Dec.	OAL	Flute	Qty.	Part #	Size	Dec.	OAL	Flute	Qty.
C22301	17/32"	.5312	6"	2-3/4"	1	C22325	29/32"	.9062	6"	2-3/4"	1
C22303	9/16"	.5625	6"	2-3/4"	1	C22327	15/16"	.9375	6"	2-3/4"	1
C22305	19/32"	.5938	6"	2-3/4"	1	C22329	31/32"	.9688	6"	2-3/4"	1
C22307	5/8"	.6250	6"	2-3/4"	1	C22331	1"	1.0000	6"	2-3/4"	1
C22309	21/32"	.6562	6"	2-3/4"	1	C22332	1-1/16"	1.0625	6"	2-3/4"	1
C22311	11/16"	.6875	6"	2-3/4"	1	C22333	1-1/8"	1.1250	6"	2-3/4"	1
C22313	23/32"	.7188	6"	2-3/4"	1	C22334	1-3/16"	1.1875	6"	2-3/4"	1
C22315	3/4"	.7500	6"	2-3/4"	1	C22335	1-1/4"	1.2500	6"	2-3/4"	1
C22317	25/32"	.7812	6"	2-3/4"	1	C22336	1-5/16"	1.3125	6"	2-3/4"	1
C22319	13/16"	.8125	6"	2-3/4"	1	C22337	1-3/8"	1.3750	6"	2-3/4"	1
C22321	27/32"	.8438	6"	2-3/4"	1	C22338	1-1/2"	1.5000	6"	2-3/4"	1
C22323	7/8"	.8750	6"	2-3/4"	1						



Spotweld - Double End - M42 COBALT

- ◆ Heavy Duty Spur
- ◆ M42 Super Cobalt
- ◆ High Red Hot Hardness
- ◆ Double End
- ◆ Gold Finish

Part #	Size	Frac.	OAL	Qty.
C24100	6.5 mm	1/4"	3-5/8"	5
C24101	8.0 mm	5/16"	3-5/8"	5
C24102	10.0 mm	3/8"	3-5/8"	5



Double End - M42 COBALT

Part #	Size	Dec.	OAL	Flute	Qty.
C23450	1/8"	.1250	2"	1/2"	12
C23451	#30	.1285	2"	1/2"	12



29 PC Jobber Drill Sets

Part #	Set	Sizes	Type	Point	Qty.
C20100	29 pc	1/16" → 1/2" x 64ths	BLACK OXIDE	135° S.P.	1
C20200	29 pc	1/16" → 1/2" x 64ths	COBALT	135° S.P.	1



TAP & DRILL Sets - CARBON / HSS TAPS

Part #	Sizes	Type	Point	Qty.
C40100	See Below	Carbon Taps	118°	1
C40200	See Below	HSS Taps	135° S.P.	1

HSS DRILL BIT SIZES: #36, #29, #25, #21, #7, F, 5/16", U, 27/64"
TAP SIZES: 6-32, 8-32, 10-24, 10-32, 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13

TAP AND DRILL CHART

NC = National Course
NF = National Fine

DRILL THIS SIZE HOLE			TO TAP FOR THIS BOLT OR SCREW
DECIMAL INCHES	DRILL SIZE	NEAREST FRACTION	
.0469"	3/64"	3/64"	0-80 NF
.0595"	No. 53	none	1-64 NC
.0595"	No. 53	1/16"	1-72 NF
.0700"	No. 50	none	2-56 NC
.0700"	No. 50	none	2-64 NF
.0785"	No. 47	5/64"	3-48 NC
.0820"	No. 45	none	3-56 NF
.0860"	No. 44	none	4-36 NS
.0890"	No. 43	3/32"	4-40 NC
.0935"	No. 42	3/32"	4-48 NF
.0984"	2.5mm	none	3mm-0.60mm
.1015"	No. 38	none	1/8-40 NS
.1015"	No. 38	none	5-40 NC
.1040"	No. 37	none	5-44 NF
.1100"	No. 35	7/64"	6-32 NC
.1110"	No. 34	none	6-36 NS
.1130"	No. 33	none	6-40 NF
.1200"	No. 31	none	6-48 NS
.1338"	3.4mm	none	4mm-0.70mm
.1338"	3.4mm	none	4mm-0.75mm
.1360"	No. 29	none	8-32 NC
.1360"	No. 29	9/64"	8-36 NF
.1405"	No. 28	none	8-40 NS
.1470"	No. 26	none	3/16-24 NS
.1495"	No. 25	5/32"	10-24 NC
.1570"	No. 22	none	3/16-32 NS
.1590"	No. 21	5/32"	10-32 NF
.1653"	4.2mm	none	5mm-0.90mm
.1693"	4.3mm	none	5mm-0.80mm
.1770"	No. 16	11/64"	12-24 NC
.1820"	No. 14	3/16"	12-28 NF
.1850"	No. 13	none	12-32 NEF
.1935"	No. 10	none	14-20 NS
.2010"	No. 7	13/64"	1/4-20 NC
.2010"	No. 7	none	14-24 NS
.2047"	5.2mm	none	6mm-1.00mm
.2090"	No. 4	none	1/4-24 NS
.2130"	No. 3	7/32"	1/4-28 NF
.2188"	7/32"	7/32"	1/4-32 NEF
.2280"	No. 1	none	1/4-40 NS
.2401"	6.1mm	15/64"	7mm-1.00mm
.2570"	Ltr. F	17/64"	5/16-18 NC
.2716"	6.9mm	17/64"	8mm-1.25mm
.2720"	Ltr. I	none	5/16-24 NF
.2795"	7.1mm	none	8mm-1.00mm
.2812"	9/32"	9/32"	5/16-32 NEF
.3110"	7.9mm	none	9mm-1.25mm
.3125"	5/16"	5/16"	3/8-16 NC

DRILL THIS SIZE HOLE			TO TAP FOR THIS BOLT OR SCREW
DECIMAL INCHES	DRILL SIZE	NEAREST FRACTION	
.3189"	8.1mm	none	9mm-1.00mm
.3268"	8.3mm	none	9mm-0.75mm
.3320"	Ltr. Q	21/64"	3/8-24 NF
.3425"	8.7mm	none	10mm-1.50mm
.3503"	8.9mm	11/32"	10mm-1.25mm
.3583"	9.1mm	none	*10mm-1.00mm
.3680"	Ltr. U	23/64"	7/16"-14 NC
.3818"	9.7mm	none	11mm-1.50mm
.3906"	25/64"	25/64"	7/16-20 NF
.4133"	10.5mm	none	12mm-1.75mm
.4212"	10.7mm	27/64"	12mm-1.50mm
.4219"	27/64"	27/64"	1/2-13 NC
.4291"	10.9mm	27/64"	*12mm-1.25mm
.4531"	29/64"	29/64"	1/2-20 NF
.4531"	29/64"	29/64"	1/2-24 NS
.4803"	12.2mm	none	14mm-2.00mm
.4844"	31/64"	31/64"	9/16-12 NC
.4999"	12.7mm	none	14mm-1.50mm
.5039"	12.8mm	none	*14mm-1.25mm
.5156"	33/64"	33/64"	9/16-18 NF
.5312"	17/32"	17/32"	5/8-11 NC
.5590"	14.2mm	35/64"	16mm-2.00mm
.5781"	37/64"	37/64"	5/8-18 NF
.5787"	14.7mm	none	16mm-1.50mm
.5938"	19/32"	19/32"	11/16-11 NS
.6220"	15.8mm	39/64"	18mm-2.50mm
.6250"	5/8"	5/8"	11/16-16 NS
.6562"	21/32"	21/32"	3/4-10 NC
.6614"	16.8mm	none	*18mm-1.50mm
.6875"	11/16"	11/16"	3/4-16 NF
.7008"	17.8mm	11/16"	20mm-2.50mm
.7656"	49/64"	49/64"	7/8-9 NC
.8125"	13/16"	13/16"	7/8-14 NF
.8228"	20.9mm	none	22mm-1.50mm
.8281"	53/64"	53/64"	*7/8-18 NS
.8425"	21.4mm	53/64"	24mm-3.00mm
.8750"	7/8"	7/8"	1-8 NC
.8779"	22.3mm	none	24mm-2.00mm
.9219"	59/64"	59/64"	1-12 NF
.9375"	15/16"	15/16"	1-14 NS
.9844"	63/64"	63/64"	1-1/8 - 7 NC
1.0469"	1-3/64"	1-3/64"	1-1/8 - 12 NF
1.1094"	1-7/64"	1-7/64"	1-1/4 - 7 NC
1.1719"	1-11/64"	1-11/64"	1-1/4 - 12 NF
1.2188"	1-7/32"	1-7/32"	1-3/8 - 6 NC
1.2969"	1-19/64"	1-19/64"	1-3/8 - 12 NF
1.3468"	1-11/32"	1-11/32"	1-1/2 - 6 NC
1.4219"	1-27/64"	1-27/64"	1-1/2 - 12 NF

* Spark Plug Taps.



Carbon Steel Hand Taps - MACHINE SCREW

Part #	Description	Machine Screw Thread	No. Of Flutes	Ground Thread Limit	OAL	Use Thread Length	Drill Size	Qty.
C41100	PLUG TAP	4-40 NC	3	H2	1-7/8"	9/16"	43	5
C41101	PLUG TAP	4-48 NF	3	H2	1-7/8"	9/16"	42	5
C41102	PLUG TAP	5-40 NC	3	H2	1-15/16"	7/8"	38	5
C41103	PLUG TAP	5-44 NF	3	H2	1-15/16"	7/8"	37	5
C41104	PLUG TAP	6-32 NC	3	H2	2"	11/16"	35	5
C41105	PLUG TAP	6-40 NF	3	H2	2"	11/16"	33	5
C41106	PLUG TAP	8-32 NC	4	H3	2-1/8"	3/4"	29	5
C41107	PLUG TAP	8-36 NF	4	H3	2-1/8"	3/4"	29	5
C41108	PLUG TAP	10-24 NC	4	H3	2-3/8"	7/8"	25	5
C41109	PLUG TAP	10-32 NF	4	H3	2-3/8"	7/8"	21	5
C41110	PLUG TAP	12-24 NC	4	H3	2-3/8"	15/16"	16	5
C41111	PLUG TAP	12-28 NF	4	H3	2-3/8"	15/16"	14	5



5 PCS. PER
PACK FROM
4-40 TO
1/2"-20.

SOLD
1 PC.
OVER 1/2"-20.

Carbon Steel Hand Taps - FRACTIONAL

Part #	Description	Machine Screw Thread	No. Of Flutes	Ground Thread Limit	OAL	Use Thread Length	Drill Size	Qty.
C41112	PLUG TAP	1/4"-20 NC	4	H3	2-1/2"	1"	7	5
C41113	PLUG TAP	1/4"-28 NF	4	H3	2-1/2"	1"	3	5
C41114	PLUG TAP	5/16"-18 NC	4	H3	2-23/32"	1-1/8"	F	5
C41115	PLUG TAP	5/16"-24 NF	4	H3	2-23/32"	1-1/8"	I	5
C41116	PLUG TAP	3/8"-16 NC	4	H3	2-15/16"	1-1/4"	5/16"	5
C41117	PLUG TAP	3/8"-24 NF	4	H3	2-15/16"	1-1/4"	Q	5
C41118	PLUG TAP	7/16"-14 NC	4	H3	3-5/32"	1-7/16"	U	5
C41119	PLUG TAP	7/16"-20 NF	4	H3	3-5/32"	1-7/16"	25/64"	5
C41120	PLUG TAP	1/2"-13 NC	4	H3	3-3/8"	1-21/32"	27/64"	5
C41121	PLUG TAP	1/2"-20 NF	4	H3	3-3/8"	1-21/32"	29/64"	5
C41122	PLUG TAP	9/16"-12 NC	4	H3	3-19/32"	1-21/32"	31/64"	1
C41123	PLUG TAP	9/16"-18 NF	4	H3	3-19/32"	1-21/32"	33/64"	1
C41124	PLUG TAP	5/8"-11 NC	4	H3	3-13/16"	1-13/16"	17/32"	1
C41125	PLUG TAP	5/8"-18 NF	4	H3	3-13/16"	1-13/16"	37/64"	1
C41126	PLUG TAP	3/4"-10 NC	4	H3	4-1/4"	2"	21/32"	1
C41127	PLUG TAP	3/4"-16 NF	4	H3	4-1/4"	2"	11/16"	1
C41128	PLUG TAP	7/8"-9 NC	4	H4	4-11/16"	2-7/32"	49/64"	1
C41129	PLUG TAP	7/8"-14 NF	4	H4	4-11/16"	2-7/32"	13/16"	1
C41130	PLUG TAP	1"-8 NC	4	H4	5-1/8"	2-1/2"	7/8"	1
C41131	PLUG TAP	1"-12 NF	4	H4	5-1/8"	2-1/2"	59/64"	1
C41132	PLUG TAP	1"-14 NS	4	H4	5-1/8"	2-1/2"	15/16"	1
C41133	PLUG TAP	1-1/8"- 7 NC	4	H4	5-7/16"	2-9/16"	63/64"	1

(HSS) High Speed Steel Hand Taps - MACHINE SCREW GROUND THREAD

Part #	Description	Machine Screw Thread	No. Of Flutes	Ground Thread Limit	OAL	Use Thread Length	Drill Size	Qty.
C42100	PLUG TAP	4-40 NC	3	H2	1-7/8"	9/16"	43	5
C42101	PLUG TAP	4-48 NF	3	H2	1-7/8"	9/16"	42	5
C42102	PLUG TAP	5-40 NC	3	H2	1-15/16"	7/8"	38	5
C42103	PLUG TAP	5-44 NF	3	H2	1-15/16"	7/8"	37	5
C42104	PLUG TAP	6-32 NC	3	H2	2"	11/16"	35	5
C42105	PLUG TAP	6-40 NF	3	H2	2"	11/16"	33	5
C42106	PLUG TAP	8-32 NC	4	H3	2-1/8"	3/4"	29	5
C42107	PLUG TAP	8-36 NF	4	H3	2-1/8"	3/4"	29	5
C42108	PLUG TAP	10-24 NC	4	H3	2-3/8"	7/8"	25	5
C42109	PLUG TAP	10-32 NF	4	H3	2-3/8"	7/8"	21	5
C42110	PLUG TAP	12-24 NC	4	H3	2-3/8"	15/16"	16	5
C42111	PLUG TAP	12-28 NF	4	H3	2-3/8"	15/16"	14	5



(HSS) High Speed Steel Hand Taps - FRACTIONAL GROUND THREAD

Part #	Description	Machine Screw Thread	No. Of Flutes	Ground Thread Limit	OAL	Use Thread Length	Drill Size	Qty.
C42112	PLUG TAP	1/4"-20 NC	4	H3	2-1/2"	1"	7	5
C42113	PLUG TAP	1/4"-28 NF	4	H3	2-1/2"	1"	3	5
C42114	PLUG TAP	5/16"-18 NC	4	H3	2-23/32"	1-1/8"	F	5
C42115	PLUG TAP	5/16"-24 NF	4	H3	2-23/32"	1-1/8"	I	5
C42116	PLUG TAP	3/8"-16 NC	4	H3	2-15/16"	1-1/4"	5/16"	5
C42117	PLUG TAP	3/8"-24 NF	4	H3	2-15/16"	1-1/4"	Q	5
C42118	PLUG TAP	7/16"-14 NC	4	H3	3-5/32"	1-7/16"	U	5
C42119	PLUG TAP	7/16"-20 NF	4	H3	3-5/32"	1-7/16"	25/64"	5
C42120	PLUG TAP	1/2"-13 NC	4	H3	3-3/8"	1-21/32"	27/64"	5
C42121	PLUG TAP	1/2"-20 NF	4	H3	3-3/8"	1-21/32"	29/64"	5
C42122	PLUG TAP	9/16"-12 NC	4	H3	3-19/32"	1-21/32"	31/64"	1
C42123	PLUG TAP	9/16"-18 NF	4	H3	3-19/32"	1-21/32"	33/64"	1
C42124	PLUG TAP	5/8"-11 NC	4	H3	3-13/16"	1-13/16"	17/32"	1
C42125	PLUG TAP	5/8"-18 NF	4	H3	3-13/16"	1-13/16"	37/64"	1
C42126	PLUG TAP	11/16"-11 NS	4	H3	4-1/32"	1-13/16"	19/32"	1
C42127	PLUG TAP	11/16"-16 NS	4	H3	4-1/32"	1-13/16"	5/8"	1
C42128	PLUG TAP	3/4"-10 NC	4	H3	4-1/4"	2"	21/32"	1
C42129	PLUG TAP	3/4"-16 NF	4	H3	4-1/4"	2"	11/16"	1
C42130	PLUG TAP	7/8"-9 NC	4	H4	4-11/16"	2-7/32"	49/64"	1
C42131	PLUG TAP	7/8"-14 NF	4	H4	4-11/16"	2-7/32"	13/16"	1
C42132	PLUG TAP	1"-8 NC	4	H4	5-1/8"	2-1/2"	7/8"	1
C42133	PLUG TAP	1"-12 NF	4	H4	5-1/8"	2-1/2"	59/64"	1
C42134	PLUG TAP	1"-14 NS	4	H4	5-1/8"	2-1/2"	15/16"	1



5 PCS. PER
PACK FROM
4-40 TO
1/2"-20.

SOLD
1 PC.
OVER 1/2"-20.

- ◆ National Pipe Tap
- ◆ High Speed Steel
- ◆ Ground Thread
- ◆ Heavy Duty



**SOLD INDIVIDUALLY
IN PLASTIC TUBES**

(HSS) NPT Taper Pipe Taps

Part #	Size	Threads Per Inch NPT Only	No. Of Flutes	OAL	Thread Length	Qty.
C44100	1/16"	27	4	2-1/8"	11/16"	1
C44101	1/8"	27	4	2-1/8"	3/4"	1
C44102	1/4"	18	4	2-7/16"	1-1/16"	1
C44103	3/8"	18	4	2-9/16"	1-1/16"	1
C44104	1/2"	14	4	3-1/8"	1-3/8"	1
C44105	3/4"	14	5	3-1/4"	1-3/8"	1
C44106	1"	11.5	5	3-3/4"	1-3/4"	1
C44107	1-1/4"	11.5	5	4"	1-3/4"	1
C44108	1-1/2"	11.5	7	4-1/4"	1-3/4"	1
C44109	2"	11.5	7	4-1/2"	1-3/4"	1

- ◆ National Pipe Tap
- ◆ Carbon Steel
- ◆ Ground Thread
- ◆ General Purpose



**SOLD INDIVIDUALLY
IN PLASTIC TUBES**

(Carbon Steel) NPT Taper Pipe Taps

Part #	Size	Threads Per Inch NPT Only	No. Of Flutes	OAL	Thread Length	Qty.
C43100	1/16"	27	4	2-1/8"	11/16"	1
C43101	1/8"	27	4	2-1/8"	3/4"	1
C43102	1/4"	18	4	2-7/16"	1-1/16"	1
C43103	3/8"	18	4	2-9/16"	1-1/16"	1
C43104	1/2"	14	4	3-1/8"	1-3/8"	1
C43105	3/4"	14	5	3-1/4"	1-3/8"	1
C43106	1"	11.5"	5	3-3/4"	1-3/4"	1
C43107	1-1/4"	11.5"	5	4"	1-3/4"	1
C43108	1-1/2"	11.5"	7	4-1/4"	1-3/4"	1
C43109	2"	11.5"	7	4-1/2"	1-3/4"	1

NPT TAP-DRILL CHART



DRILL THIS SIZE HOLE			TO TAP FOR THIS BOLT OR SCREW
DECIMAL INCHES	DRILL SIZE	NEAREST FRACTION	
.3390"	Ltr. R	none	1/8-27 NPT
.4375"	7/16"	7/16"	1/4-18 NPT
.5781"	37/64"	37/64"	3/8- 8 NPT
.7031"	45/64"	45/64"	1/2-14 NPT
.9219"	59/64"	59/64"	3/4-14 NPT
1.1562"	1-5/32"	1-5/32"	1 - 11-1/2 NPT
1.5000"	1-1/2"	1-1/2"	1-1/4 - 11-1/2 NPT
1.7344"	1-47/64"	1-47/64"	1-1/2 - 11-1/2 NPT
2.2188"	2-3/16"	2-3/16"	2 - 11-1/2 NPT

Combo Drill Taps - HSS

Part #	Thread Size	Drill Size	Thread Length	OAL	Qty.
C45100	6-32	0.1095	11/16"	2"	1
C45101	8-32	0.1360	3/4"	2-1/8"	1
C45102	8-36	0.1360	3/4"	2-1/8"	1
C45103	10-24	0.1520	7/8"	2-3/8"	1
C45104	10-32	0.1520	7/8"	2-3/8"	1
C45105	12-24	0.1770	15/16"	2-3/8"	1
C45106	1/4"-20	0.2010	15/16"	2-1/2"	1
C45107	1/4"-28	0.2010	15/16"	2-1/2"	1
C45108	5/16"-18	0.2570	1-1/8"	3"	1
C45109	3/8"-16	0.3125	1-1/4"	3-1/2"	1
C45110	3/8"-24	0.3125	1-1/4"	3-1/2"	1
C45111	7/16"-14	0.3680	1-7/16"	3-7/8"	1
C45112	1/2"-13	0.4250	1-21/32"	4-1/4"	1



- ◆ High Speed Steel
- ◆ Ground Thread
- ◆ Heavy Duty

Drill and Tap holes in one operation, saving a complete set-up!

**SOLD INDIVIDUALLY
IN PLASTIC TUBES**

Spiral Point (Gun) Taps - HSS

Part #	Size	No. Of Flutes	OAL	Thread Length	Drill Size	Qty.
C46100	6-32	2	2"	11/16"	35	5
C46101	8-32	2	2-1/8"	3/4"	29	5
C46102	10-24	2	2-3/8"	7/8"	25	5
C46103	10-32	2	2-3/8"	7/8"	25	5
C46104	12-24	2	2-3/8"	15/16"	16	5
C46105	1/4"-20	2	2-1/2"	1"	7	5
C46106	1/4"-28	2	2-1/2"	1"	7	5
C46107	5/16"-18	2	2-23/32"	1-1/8"	F	5
C46108	3/8"-16	3	2-15/16"	1-1/4"	5/16"	5
C46109	1/2"-13	3	3-3/8"	1-21/32"	27/64"	5



- ◆ High Speed Steel
- ◆ Ground Thread
- ◆ Heavy Duty

Spiral Point Taps are ideal for machine tapping through holes or blind holes with adequate bottom clearance.



**Sold
5/Pack**

T-Handle Tap Wrench

Part #	O.D. Size	Qty.
C47100	#0 - 1/4"	1
C47200	#10 - 1/2"	1



Reaming Steel For Aligning
Existing Holes & Bolt / Rivet Installation

**BLACK
Oxide**



Reamer - CAR / Construction - Standard - HSS

- ◆ High Speed Steel (HSS)
- ◆ Tapered Point
- ◆ Left-Hand Spiral
- ◆ Right-Hand Cut
- ◆ 3-Flat Shank

Part #	Size	Point Diameter	OAL	Flute	Shank	Type	Qty.
C34100	3/8"	0.250	5"	4"	3/8"	3-Flat Car / Constr.	1
C34101	7/16"	0.281	5-1/4"	4"	7/16"	3-Flat Car / Constr.	1
C34102	1/2"	0.343	6"	4-1/2"	1/2"	3-Flat Car / Constr.	1
C34103	9/16"	0.343	6-1/4"	4-1/2"	1/2"	3-Flat Car / Constr.	1
C34104	5/8"	0.343	6-1/2"	4-1/2"	1/2"	3-Flat Car / Constr.	1
C34105	11/16"	0.375	7"	4-1/2"	1/2"	3-Flat Car / Constr.	1
C34106	3/4"	0.406	7-1/4"	5"	1/2"	3-Flat Car / Constr.	1
C34107	13/16"	0.468	7-1/4"	5"	1/2"	3-Flat Car / Constr.	1
C34108	7/8"	0.500	7-1/4"	5"	1/2"	3-Flat Car / Constr.	1
C34109	15/16"	0.585	7-1/4"	5"	1/2"	3-Flat Car / Constr.	1
C34110	1"	0.594	7-1/4"	5"	1/2"	3-Flat Car / Constr.	1
C34111	1-1/16"	0.807	7-1/4"	5"	1/2"	3-Flat Car / Constr.	1

**BLACK
Oxide**



Reamer - CAR - Standard - HEX - HSS

- ◆ High Speed Steel (HSS)
- ◆ Tapered Point
- ◆ Left-Hand Spiral
- ◆ Right-Hand Cut
- ◆ HEX Nut Shank

Part #	Size	Point Diameter	OAL	Flute	Shank	Type	Qty.
C34200	11/16"	0.375	6-3/8"	4-1/2"	1-1/16"	HEX Car	1
C34201	13/16"	0.468	7"	5"	1-1/4"	HEX Car	1
C34202	15/16"	0.585	7"	5"	1-7/16"	HEX Car	1
C34203	1-1/16"	0.807	7"	5"	1-5/8"	HEX Car	1

**BLACK
Oxide**



Reamer - BRIDGE - SPIRAL FLUTE - HEX - HSS

- ◆ High Speed Steel (HSS)
- ◆ Tapered Point
- ◆ Left-Hand Spiral
- ◆ Right-Hand Cut
- ◆ HEX Nut Shank

Part #	Size	Point Diameter	OAL	Flute	Shank	Type	Qty.
C34300	11/16"	0.375	6-3/8"	4-1/2"	1-1/16"	HEX Car	1
C34301	13/16"	0.468	7"	5"	1-1/4"	HEX Car	1
C34302	15/16"	0.585	7"	5"	1-7/16"	HEX Car	1
C34303	1-1/16"	0.807	7"	5"	1-5/8"	HEX Car	1



1/8"
5/32"
3/16"
7/32"
1/4"
9/32"
5/16"
11/32"
3/8"
13/32"
7/16"
15/32"
1/2"

Part# C25100
13 Steps 1/8" - 1/2"



3/16"
1/4"
5/16"
3/8"
7/16"
1/2"

Part# C25101
6 Steps 3/16" - 1/2"



1/4"
5/16"
3/8"
7/16"
1/2"
9/16"
5/8"
11/16"
3/4"

Part# C25102
9 Steps 1/4" - 3/4"

- ◆ HSS Step Drills
- ◆ Lobbed Non-Slip Shank
- ◆ Drill 1/8" Thick
- ◆ Double Flute
- ◆ Bright Finish

- Ferrous & Non-Ferrous Sheet Metals
- Plastic Laminates
- Sink Grade Stainless Steel
- Auto Body Repair
- Electrical
- HVAC



3/16"
1/4"
5/16"
3/8"
7/16"
1/2"
9/16"
5/8"
11/16"
3/4"
13/16"
7/8"

Part# C25103
12 Steps 3/16" - 7/8"



7/16"
1/2"
9/16"
5/8"
11/16"
3/4"
13/16"
7/8"
15/16"
1"
1-1/16"
1-1/8"

Part# C25104
12 Steps 7/16" - 1-1/8"



3/4"
13/16"
7/8"
15/16"
1"
1-1/16"
1-1/8"
1-3/16"
1-1/4"
1-5/16"
1-3/8"

Part# C25105
11 Steps 3/4" - 1-3/8"

STEP DRILLS
ARE SOLD
INDIVIDUALLY.



3/8"
7/16"
3/4"

For drilling 3 standard size holes to accommodate drive screws for knockout punches.

Part# C25106
3 Steps 3/8" - 3/4"



7/8"
1-1/8"

7/8" hole for 1/2" conduit.
1-1/8" hole for 3/4" conduit.

Part# C25107
2 Steps 7/8" - 1-1/8"



7/8"
1-1/8"
1-7/32"
1-1/4"
1-3/8"

1-7/32" hole for oil tight switches.

Part# C25108
5 Steps 7/8" - 1-3/8"

Recommended Cutting Speeds:

1/8" - 3/8"	1200RPM
3/8" - 1/2"	600 RPM
1/2" - 5/8"	400 RPM
5/8" - 3/4"	350 RPM
3/4" - 7/8"	300 RPM
1"	260 RPM
1-1/8"	240 RPM
1-1/2"	200 RPM



7/8"

Part# C25109
1 Cone 7/8"

More accurate control of hole size in various sheet materials up to 1/8" thick. Each step bit drills a range of sizes. The further the bit advances, the larger the diameter of the hole gets. Because step drill bits enter the material one step at a time, the operator can drill the desired hole by counting the individual steps, or by using a washer as a simple stop. The self starting tip eliminates the need for pilot holes. Applications include junction boxes, switch boxes, metal studs, electrical applications, lighting fixtures, auto body work, and many other uses.



3/16" Cutting Depth



1-3/8" Cutting Depth

T.C.T. Hole Cutter

Part #	Size	Cut	Shank	Qty.
C32100	5/8"	3/16"	3/8"	1
C32101	11/16"	3/16"	3/8"	1
C32102	3/4"	3/16"	3/8"	1
C32103	13/16"	3/16"	3/8"	1
C32104	7/8"	3/16"	3/8"	1
C32105	15/16"	3/16"	3/8"	1
C32106	1"	3/16"	3/8"	1
C32107	1-1/16"	3/16"	3/8"	1
C32108	1-1/8"	3/16"	3/8"	1
C32109	1-1/4"	3/16"	3/8"	1
C32110	1-3/8"	3/16"	3/8"	1
C32111	1-1/2"	3/16"	3/8"	1
C32112	1-5/8"	3/16"	3/8"	1
C32113	1-3/4"	3/16"	3/8"	1
C32114	1-7/8"	3/16"	3/8"	1
C32115	2"	3/16"	3/8"	1
C32116	2-1/8"	3/16"	3/8"	1
C32117	2-1/4"	3/16"	3/8"	1
C32118	2-3/8"	3/16"	3/8"	1
C32119	2-1/2"	3/16"	1/2"	1
C32120	2-3/4"	3/16"	1/2"	1
C32121	3"	3/16"	1/2"	1
C32122	3-1/4"	3/16"	1/2"	1
C32123	3-1/2"	3/16"	1/2"	1
C32124	3-5/8"	3/16"	1/2"	1
C32125	4"	3/16"	1/2"	1

T.C.T. Hole Cutter

Part #	Size	Cut	Shank	Qty.
C32200	9/16"	1-3/8"	1/2"	1
C32201	5/8"	1-3/8"	1/2"	1
C32202	11/16"	1-3/8"	1/2"	1
C32203	3/4"	1-3/8"	1/2"	1
C32204	13/16"	1-3/8"	1/2"	1
C32205	7/8"	1-3/8"	1/2"	1
C32206	15/16"	1-3/8"	1/2"	1
C32207	1"	1-3/8"	1/2"	1
C32208	1-1/16"	1-3/8"	1/2"	1
C32209	1-1/8"	1-3/8"	1/2"	1
C32210	1-3/16"	1-3/8"	1/2"	1
C32211	1-1/4"	1-3/8"	1/2"	1
C32212	1-3/8"	1-3/8"	1/2"	1
C32213	1-1/2"	1-3/8"	1/2"	1
C32214	1-5/8"	1-3/8"	1/2"	1
C32215	1-3/4"	1-3/8"	1/2"	1
C32216	1-7/8"	1-3/8"	1/2"	1
C32217	2"	1-3/8"	1/2"	1
C32218	2-1/8"	1-3/8"	1/2"	1
C32219	2-1/4"	1-3/8"	1/2"	1
C32220	2-3/8"	1-3/8"	1/2"	1
C32221	2-1/2"	1-3/8"	1/2"	1

- ◆ Excellent Wear and Heat Resistance
- ◆ Tungsten Carbide Teeth
- ◆ Cuts Stainless Steel and Tough Alloys
- ◆ Ejects the Slug Saving Time
- ◆ Works in 3/8" & 1/2" Chucks

- Sheet Metal
- Steel Plate
- Stainless Steel
- Copper
- Cast Iron



T.C.T. HOLE CUTTERS ARE SOLD INDIVIDUALLY.



Replacement Parts

Part #	Description	Qty.
C33100	CENTER DRILL φ6mm x 50L	1
C33101	SPRING 1.2MM X 16L	1
C33200	CENTER DRILL φ6mm x 75L	1
C33201	SPRING 1.2MM X 50L	1

RECOMMENDED CUTTING SPEEDS

Size	Steel (rpm)	Stainless Steel (rpm)
9/16" to 13/16"	700-1000	300-700
7/8" to 1-3/16"	500-800	200-450
1-1/4" to 1-9/16"	300-600	175-315
1-5/8" to 2"	200-500	120-225
2-1/16" to 2-3/8"	200-400	95-195
2-7/16" to 3"	150-300	80-150
3-1/16" to 5"	100-200	60-120



1" Cutting Depth

1" HSS Annular Cutter

Part #	Size	x	Depth	Qty.
C30100	7/16"	X	1"	1
C30101	1/2"	X	1"	1
C30102	9/16"	X	1"	1
C30103	5/8"	X	1"	1
C30104	11/16"	X	1"	1
C30105	3/4"	X	1"	1
C30106	13/16"	X	1"	1
C30107	7/8"	X	1"	1
C30108	15/16"	X	1"	1
C30109	1"	X	1"	1
C30110	1-1/16"	X	1"	1
C30111	1-1/8"	X	1"	1
C30112	1-3/16"	X	1"	1
C30113	1-1/4"	X	1"	1
C30114	1-5/16"	X	1"	1
C30115	1-3/8"	X	1"	1
C30116	1-7/16"	X	1"	1
C30117	1-1/2"	X	1"	1
C30118	1-9/16"	X	1"	1
C30119	1-5/8"	X	1"	1
C30120	1-11/16"	X	1"	1
C30121	1-3/4"	X	1"	1
C30122	1-13/16"	X	1"	1
C30123	1-7/8"	X	1"	1
C30124	1-15/16"	X	1"	1
C30125	2"	X	1"	1
C30126	2-1/16"	X	1"	1



2" Cutting Depth

2" HSS Annular Cutter

Part #	Size	x	Depth	Qty.
C30200	7/16"	X	2"	1
C30201	1/2"	X	2"	1
C30202	9/16"	X	2"	1
C30203	5/8"	X	2"	1
C30204	11/16"	X	2"	1
C30205	3/4"	X	2"	1
C30206	13/16"	X	2"	1
C30207	7/8"	X	2"	1
C30208	15/16"	X	2"	1
C30209	1"	X	2"	1
C30210	1-1/16"	X	2"	1
C30211	1-1/8"	X	2"	1
C30212	1-3/16"	X	2"	1
C30213	1-1/4"	X	2"	1
C30214	1-5/16"	X	2"	1
C30215	1-3/8"	X	2"	1
C30216	1-7/16"	X	2"	1
C30217	1-1/2"	X	2"	1
C30218	1-9/16"	X	2"	1
C30219	1-5/8"	X	2"	1
C30220	1-11/16"	X	2"	1
C30221	1-3/4"	X	2"	1
C30222	1-13/16"	X	2"	1
C30223	1-7/8"	X	2"	1
C30224	1-15/16"	X	2"	1
C30225	2"	X	2"	1
C30226	2-1/16"	X	2"	1

- ◆ M2 HSS
- ◆ 3/4" Weldon Shanks
- ◆ Aggressive Cutting Edges
- ◆ No Center Punch Required
- ◆ Cut up to 2"
- ◆ For All Magnetic Drills

- Steel
- Stainless Steel
- Castings



Allows overlap cut on existing holes



Pilot Pins

Part #	Description	Qty.
C31101	Pilot 1" Cutter	1
C31102	Pilot 2" Cutter	1



Industrial Wire Cups

Part #	Size	Description	Wire Type	Qty.
C38100	2-3/4"	Knotted Cup	.020 Carbon Steel	1
C39100	2-3/4"	Knotted Cup	.020 Stainless Steel	1
C38101	4"	Knotted Cup	.020 Carbon Steel	1
C38102	6"	Knotted Cup	.020 Carbon Steel	1
C38110	3"	Crimped Cup	.014 Carbon Steel	1
C38111	4"	Crimped Cup	.014 Carbon Steel	1

- ◆ Individually Blister Packaged
- ◆ Industrial Quality

- **Stainless Steel**
- **Ferrous Metals**
- **Non-Ferrous Metals**

◆ 5/8" - 11 SPINDLE

Industrial Wire Wheels

Part #	Size	Description	Wire Type	Qty.
C38120	4"	Twist Knot Wheel	.020 Carbon Steel	1
C38130	4"	Stringer Bead Wheel	.020 Carbon Steel	1
C39130	4"	Stringer Bead Wheel	.020 Stainless Steel	1
C38131	7"	Stringer Bead Wheel	.020 Carbon Steel	1
C38140	12"	Walk Behind Wire Brush	.020 Carbon Steel (1" Spindle)	1



Hand Wire Brush

Part #	Description	Material	Qty.
C38150	Hand Wire Brush	Carbon Steel	1



Part# C35100
6 PC. Screw Extractor Set

#1, #2, #3, #4, #5, #6



Screw Extractor - LEFT HAND SPIRAL FLUTE

Part #	Size	Shank Diameter	Removes Screws or Pipe	Qty.	
C36100	1	5/64"	3/32" to 5/32"	1	
C36101	2	7/64"	5/32" to 7/32"	1	
C36102	3	5/32"	7/32" to 9/32"	1	
C36103	4	1/4"	9/32" to 3/8"	1/8" Pipe	1
C36104	5	19/64"	3/8" to 5/8"	1/4" Pipe	1
C36105	6	13/32"	5/8" to 7/8"	3/8" Pipe	1
C36106	7	17/32"	7/8" to 1-1/8"	1/2" Pipe	1
C36107	8	13/16"	1-1/8" to 1-3/8"	3/4" Pipe	1
C36108	9	1-1/16"	1-3/8" to 2"	1" Pipe	1

6" Long Spade Wood Drill

Part #	Size	OAL	Qty.
C51100	1/4"	6"	1
C51101	5/16"	6"	1
C51102	3/8"	6"	1
C51103	7/16"	6"	1
C51104	1/2"	6"	1
C51105	9/16"	6"	1
C51106	5/8"	6"	1
C51107	11/16"	6"	1
C51108	3/4"	6"	1
C51109	13/16"	6"	1
C51110	7/8"	6"	1
C51111	15/16"	6"	1
C51112	1"	6"	1
C51113	1-1/8"	6"	1
C51114	1-1/4"	6"	1
C51115	1-3/8"	6"	1
C51116	1-1/2"	6"	1



- ◆ Cold Forged
- ◆ Full Length Treated
- ◆ Machine Finish Cutting Groove
- ◆ Rust Protection
- ◆ Wing Tip Design
- ◆ 1/4" Hex Power Groove Shank
- ◆ Individually Stamped With Size
- ◆ Industrial Quality

- Wood
- Drywall
- Plywood

ALL SPADE POINT POWER DRILL BITS ARE SOLD INDIVIDUALLY. 1 PER POUCH.



1/4" Hex Power Groove Shank



Part# C50100
6 Pc. Spade Bit Set
 3/8" - 1/2" - 5/8"
 3/4" - 7/8" - 1"



Extension - For Spade Bit

Part #	Size	For Shank	Ø	Qty.
C53100	1/4" x 12"	1/4"	5/8"	1
C53101	1/4" x 18"	1/4"	5/8"	1

1/4" Extensions - Drill Diameter Must Be Larger Than 5/8".

Quick Insert / Quick Spring Out Chuck Extensions. SOLD INDIVIDUALLY.

- ◆ Quick-Change
- ◆ 1 PC. Construction
- ◆ 1/4" Hex Power Groove Shank
- ◆ Industrial Quality



1/4" Hex Power Groove Shank



Self Feed (Multispur) Wood Drill

Part #	Size	MM	Pipe Entrance	Tubing Entrance	Cutting Flute	Shank	Qty.
C52100	1"	25.4	1/2"	7/8"	1"	7/16"	1
C52101	1-1/8"	28.6	1/2"	1"	1"	7/16"	1
C52102	1-1/4"	31.8	3/4"	1-1/8"	1"	7/16"	1
C52103	1-3/8"	34.9	1"	1-1/4"	1"	7/16"	1
C52104	1-1/2"	38.1	1"	1-3/8"	1"	7/16"	1
C52105	1-3/4"	44.5	1-1/4"	1-1/2"	1"	7/16"	1
C52106	2"	50.8	1-1/2"	1-7/8"	1"	7/16"	1
C52107	2-1/8"	54.0	1-1/2"	2"	1"	7/16"	1
C52108	2-1/4"	57.2	1-1/2"	2-1/8"	1"	7/16"	1
C52109	2-9/16"	65.1	2"	2-1/2"	1"	7/16"	1
C52110	3"	76.2	2-1/2"	2-7/8"	2"	7/16"	1
C52111	3-5/8"	92.1	3"	3-1/2"	2"	7/16"	1
C52112	4-5/8"	117.5	4"	4-1/2"	2"	7/16"	1

- ◆ Fast Continuous and Self Feeding
- ◆ Deep Holes
- ◆ 7/16" Impact Hex Shank
- ◆ Double End Screw
- ◆ Extra Screw & Wrench
- ◆ Industrial Quality

- Wood
- Drywall
- Plywood
- Plumbing
- Rough-in Work

SELF FEED WOOD DRILLS ARE SOLD INDIVIDUALLY. 1 PER TUBE.



Extensions for Ship Auger & Multispur

POWER BIT EXTENSIONS

- ◆ HEX Wrench Included
- ◆ 2 Set Screws

Part #	Size	For Shank	Ø	Qty.	Part #	Size	For Shank	Ø	Qty.
C53200	5/16" x 18"	5/16"	11/16"	1	C53300	7/16" x 12"	7/16"	7/8"	1
					C53301	7/16" x 18"	7/16"	7/8"	1

5/16" Extensions - Drill Diameter Must Be Larger Than 11/16".
7/16" Extensions - Drill Diameter Must Be Larger Than 7/8".



8" Long Ship Auger Wood Drill

Part #	Size	Size In 16ths	OAL	Hex Shank	Qty.
C55100	1/2"	8	8"	5/16"	1
C55101	9/16"	9	8"	5/16"	1
C55102	5/8"	10	8"	5/16"	1
C55103	11/16"	11	8"	5/16"	1
C55104	3/4"	12	8"	5/16"	1
C55105	13/16"	13	8"	5/16"	1
C55106	7/8"	14	8"	7/16"	1
C55107	15/16"	15	8"	7/16"	1
C55108	1"	16	8"	7/16"	1
C55109	1-1/8"	18	8"	7/16"	1
C55110	1-1/4"	20	8"	7/16"	1
C55111	1-3/8"	20	8"	7/16"	1
C55112	1-1/2"	24	8"	7/16"	1

- ◆ 6" Twist Length
- ◆ Heat Treated
- ◆ Machine Ground Hollows
- ◆ Deep Throat
- ◆ Single Twist
- ◆ Single Cutter
- ◆ Side Lip
- ◆ Self-Feeding Screw Point



ALL SHIP AUGER DRILL BITS ARE SOLD INDIVIDUALLY.

- Bulk Heads
- General Timber



18" Long Ship Auger Wood Drill

Part #	Size	Size In 16ths	OAL	Hex Shank	Qty.
C55150	3/8"	6	18"	5/16"	1
C55151	7/16"	7	18"	5/16"	1
C55152	1/2"	8	18"	5/16"	1
C55153	9/16"	9	18"	7/16"	1
C55154	5/8"	10	18"	7/16"	1
C55155	11/16"	11	18"	7/16"	1
C55156	3/4"	12	18"	7/16"	1
C55157	13/16"	13	18"	7/16"	1
C55158	7/8"	14	18"	7/16"	1
C55159	15/16"	15	18"	7/16"	1
C55160	1"	16	18"	7/16"	1
C55161	1-1/8"	18	18"	7/16"	1
C55162	1-1/4"	20	18"	7/16"	1
C55163	1-3/8"	22	18"	7/16"	1
C55164	1-1/2"	24	18"	7/16"	1

- ◆ 12" Twist Length
- ◆ Heat Treated
- ◆ Machine Ground Hollows
- ◆ Deep Throat
- ◆ Single Twist
- ◆ Single Cutter
- ◆ Side Lip
- ◆ Self-Feeding Screw Point



ALL SHIP AUGER DRILL BITS ARE SOLD INDIVIDUALLY.

- Bulk Heads
- General Timber

Made Of Premium Steel, Ship Auger Drills Are For Boring Bulkheads And General Timber.



- ◆ General Purpose
- ◆ Tungsten Carbide
- ◆ Slow Spiral Flute
- ◆ Tempered Body
- ◆ Black Oxide Finish
- ◆ Gold Head
- ◆ Straight Shank
- ◆ ANSI Specification

- **Brick**
- **Drywall**
- **Clay Pipe**
- **Tile**
- **Slate**
- **Cinder Block**



Use with rotation or Percussion

A first generation carbide tipped drill bit, mass produced since the early 1970's, first in Europe, then in Puerto Rico, then in the USA. Still used ubiquitously and found in anchor kits all over the world.

Slow Spiral Masonry Drills

Part #	Size	X	OAL	Shank	Qty.
C11010	1/8"	X	3"	1/8"	1
C11030	3/16"	X	4"	3/16"	1
C11040	3/16"	X	6"	3/16"	1
C11041	7/32"	X	4"	7/32"	1
C11050	1/4"	X	4"	1/4"	1
C11060	1/4"	X	6"	1/4"	1
C11061	1/4"	X	12"	1/4"	1
C11062	1/4"	X	18"	1/4"	1
C11063	5/16"	X	4"	1/4"	1
C11070	5/16"	X	6"	1/4"	1
C11071	5/16"	X	12"	1/4"	1
C11072	5/16"	X	18"	5/16"	1
C11073	3/8"	X	4"	1/4"	1
C11080	3/8"	X	6"	3/8"	1
C11081	3/8"	X	12"	3/8"	1
C11082	3/8"	X	18"	3/8"	1
C11083	3/8"	X	24"	3/8"	1
C11084	7/16"	X	6"	1/4"	1
C11085	1/2"	X	4"	1/4"	1
C11090	1/2"	X	6"	3/8"	1
C11091	1/2"	X	12"	3/8"	1
C11092	1/2"	X	18"	3/8"	1
C11093	9/16"	X	6"	3/8"	1
C11094	5/8"	X	6"	3/8"	1
C11095	5/8"	X	12"	3/8"	1
C11096	5/8"	X	18"	3/8"	1
C11097	3/4"	X	6"	1/2"	1
C11098	3/4"	X	12"	1/2"	1
C11099	3/4"	X	18"	1/2"	1
C11100	7/8"	X	6"	1/2"	1
C11101	7/8"	X	12"	1/2"	1
C11102	7/8"	X	18"	1/2"	1
C11103	1"	X	6"	1/2"	1
C11104	1"	X	12"	1/2"	1
C11105	1"	X	18"	1/2"	1



SDS-PLUS Rotary Hammer Drills

Part #	Size	X	OAL	Drilling	Head	Qty.
C10009	5/32"	X	4-1/4"	2"	4-PLUS	1
C10010	5/32"	X	6-1/4"	4"	4-PLUS	1
C10020	3/16"	X	4-1/2"	2"	4-PLUS	1
C10030	3/16"	X	6-1/2"	4"	4-PLUS	1
C10031	3/16"	X	8-1/2"	6"	4-PLUS	1
C10032	3/16"	X	12-1/2"	10"	4-PLUS	1
C10033	7/32"	X	6-1/2"	4"	4-PLUS	1
C10034	7/32"	X	8-1/2"	6"	4-PLUS	1
C10035	7/32"	X	10-1/2"	8"	4-PLUS	1
C10036	7/32"	X	16"	14"	4-PLUS	1
C10040	1/4"	X	4-1/2"	2"	4-PLUS	1
C10050	1/4"	X	6-1/2"	4"	4-PLUS	1
C10051	1/4"	X	8-1/2"	6"	4-PLUS	1
C10052	1/4"	X	10-1/2"	8"	4-PLUS	1
C10053	1/4"	X	14"	12"	4-PLUS	1
C10054	1/4"	X	16"	14"	4-PLUS	1
C10060	5/16"	X	6-1/2"	4"	4-PLUS	1
C10070	5/16"	X	12-1/2"	10"	4-PLUS	1
C10080	3/8"	X	6-1/2"	4"	4-PLUS	1
C10090	3/8"	X	10-1/2"	8"	4-PLUS	1
C10100	3/8"	X	12-1/2"	10"	4-PLUS	1
C10101	3/8"	X	18"	16"	4-PLUS	1
C10102	3/8"	X	24"	22"	4-PLUS	1
C10110	7/16"	X	6-1/2"	4"	4-PLUS	1
C10111	7/16"	X	12-1/2"	10"	4-PLUS	1
C10120	1/2"	X	6-1/2"	4"	4-PLUS	1
C10130	1/2"	X	10-1/2"	8"	4-PLUS	1
C10140	1/2"	X	12-1/2"	10"	4-PLUS	1
C10141	1/2"	X	18"	16"	4-PLUS	1
C10142	1/2"	X	24"	22"	4-PLUS	1
C10150	9/16"	X	6-1/4"	4"	4-PLUS	1
C10160	9/16"	X	12-1/4"	10"	4-PLUS	1
C10170	5/8"	X	6-1/4"	4"	4-PLUS	1
C10171	5/8"	X	8-1/4"	6"	4-PLUS	1
C10190	5/8"	X	12-1/4"	10"	4-PLUS	1
C10191	5/8"	X	18"	16"	4-PLUS	1
C10192	5/8"	X	24"	22"	4-PLUS	1
C10193	3/4"	X	8"	6"	4-PLUS	1
C10220	3/4"	X	12"	10"	4-PLUS	1
C10221	3/4"	X	18"	16"	4-PLUS	1
C10222	3/4"	X	24"	22"	4-PLUS	1
C10223	7/8"	X	8"	6"	4-PLUS	1
C10230	7/8"	X	10"	8"	4-PLUS	1
C10231	7/8"	X	12"	10"	4-PLUS	1
C10240	1"	X	10"	8"	4-PLUS	1
C10241	1"	X	18"	16"	4-PLUS	1



- ◆ Rotary Hammer Drill
- ◆ Serrated Head Geometry
- ◆ Self Centering Chisel Point
- ◆ ANSI Specification
- ◆ Tungsten Carbide Tip
- ◆ Copper / Silver Brazing
- ◆ Fastest Dust Removal
- ◆ Fastest Drilling Speeds
- ◆ Clean Round Holes
- ◆ Less Vibration
- ◆ Polished Finish
- ◆ Industrial Quality

- Concrete
- Brick
- Stone
- Masonry
- Aggregates



SOLD INDIVIDUALLY.
1 PER CLIP.



- ◆ Rotary Hammer Drill
- ◆ STOP - Lip Prevents Over-Drilling
- ◆ Drill Exact Depth For Drop-In Anchor
- ◆ Less Likely to Hit Rebar
- ◆ ANSI Specification



SDS-PLUS + STOP Rotary Hammer Bit

Part #	Size	Drill Depth	Anchor Size	Qty.
C12100	3/8"	1-1/16"	1/4"	1
C12102	1/2"	13/16"	3/8" Short	1
C12104	1/2"	1-11/16"	3/8"	1
C12106	5/8"	1-3/16"	1/2" Short	1
C12108	5/8"	2-1/16"	1/2"	1

- Concrete
- Brick
- Stone
- Masonry
- Aggregates



For Drop-in Anchors



GERMANY



ANSI



Half Flat Shank



Concrete Bits - FOR CONCRETE-SCREWS

Part #	Size	x	OAL	Screw	Qty.
R62004	5/32"	X	3-1/2"	12	25
R62005	5/32"	X	4-1/2"	12	25
R62006	5/32"	X	5-1/2"	12	25
R62008	3/16"	X	3-1/2"	14	25
R62003	3/16"	X	4-1/2"	14	25
R62001	3/16"	X	5-1/2"	14	25
R62002	3/16"	X	6-3/4"	14	25
R62009	3/16"	X	7-5/8"	14	25

- ◆ Industrial Quality
- ◆ Tungsten Carbide Tip
- ◆ Used for 5/32" Screws and 3/16" Screws

FOR USE WITH CONCRETE-SCREW SLEEVE

Each concrete-screw carbide drill bit is precisely ground to match a certain tolerance to assure proper hole diameter and to achieve maximum thread holding power. The flat on the shank fits all drill adapters. The drill bit is specially heat treated to make it very durable.



5/16" HEX SHOULDER

SDS-HEX Bits - FOR CONCRETE-SCREWS

Part #	Size	x	OAL	Drilling	Qty.
C19200	5/32"	X	5"	2-1/2"	1
C19201	5/32"	X	7"	4-1/2"	1
C19100	3/16"	X	5"	2-1/2"	1
C19101	3/16"	X	7"	4-1/2"	1



GERMANY

- ◆ Industrial Quality
- ◆ Special Tungsten Carbide Tip
- ◆ Copper / Silver Brazing
- ◆ Polished Finish
- ◆ Used for 5/32" Screws and 3/16" Screws

FOR USE WITH CONCRETE-SCREW SLEEVE

SDS-HEX Rotary Hammer drill bits are specifically designed for concrete-screw installation. These SDS bits have a special 5/16" HEX shoulder for direct use with concrete screw installation sleeves, eliminating the need for drill adapters. The benefit of using an SDS-Plus machine instead of a standard rotation drill is 2-3X faster performance, especially in harder concretes. **SEE BELOW FOR INSTALLATION KIT**

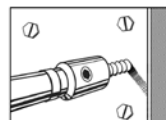
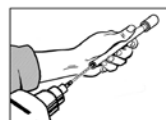
Installation Kit

Part # Description

C99010 Installation Kit

INCLUDES:

- 5/32" x 7" SDS-PLUS Hex Bit
- 3/16" x 7" SDS-PLUS Hex Bit
- 1/4" Magnetic Driver
- 5/16" Magnetic Driver
- Phillips Bit Adapter
- Masonry Drill Adapter
- 6-1/2" Sleeve
- 1/8" Hex Key
- Phillips #2 x 1" Insert
- Phillips #3 x 1" Insert



- ◆ Red Case
- ◆ Black Hardware

This Installation Kit is Suitable for both Standard Concrete Bits & SDS-HEX Rotary Hammer Bits.



SDS-MAX® Rotary Hammer Drills

Part #	Size	X	OAL	Drilling	Head	Qty.
C13100	3/8"	X	13"	7-1/2"	REGULAR	1
C13102	1/2"	X	13"	7-1/2"	REGULAR	1
C13104	1/2"	X	21"	15-1/2"	REGULAR	1
C13106	9/16"	X	21"	15-1/2"	REGULAR	1
C13108	5/8"	X	13"	7-1/2"	X-CUTTER	1
C13110	5/8"	X	21"	15-1/2"	X-CUTTER	1
C13112	5/8"	X	36"	30-1/2"	X-CUTTER	1
C13114	11/16"	X	21"	15-1/2"	X-CUTTER	1
C13116	3/4"	X	13"	8"	X-CUTTER	1
C13118	3/4"	X	21"	17"	X-CUTTER	1
C13120	3/4"	X	36"	31"	X-CUTTER	1
C13122	7/8"	X	13"	8"	X-CUTTER	1
C13124	7/8"	X	21"	17"	X-CUTTER	1
C13126	7/8"	X	36"	31"	X-CUTTER	1
C13128	1"	X	13"	8"	X-CUTTER	1
C13130	1"	X	21"	17"	X-CUTTER	1
C13132	1"	X	36"	31"	X-CUTTER	1
C13134	1-1/8"	X	17"	12"	X-CUTTER	1
C13136	1-1/8"	X	21"	17"	X-CUTTER	1
C13138	1-1/8"	X	36"	31"	X-CUTTER	1
C13140	1-1/4"	X	15"	10"	X-CUTTER	1
C13142	1-1/4"	X	23"	18"	X-CUTTER	1
C13144	1-3/8"	X	23"	18"	X-CUTTER	1
C13146	1-1/2"	X	23"	18"	X-CUTTER	1
C13148	1-3/4"	X	23"	18"	X-CUTTER	1
C13150	2"	X	23"	18"	X-CUTTER	1



- ◆ Rotary Hammer Drill
- ◆ Industrial Quality
- ◆ Tungsten Carbide Tip
- ◆ Copper / Silver Brazing
- ◆ Fastest Dust Removal
- ◆ Fastest Drilling Speeds
- ◆ Heat Treated Body
- ◆ Clean Round Holes
- ◆ Less Vibration
- ◆ Polished Finish
- ◆ ANSI Specification

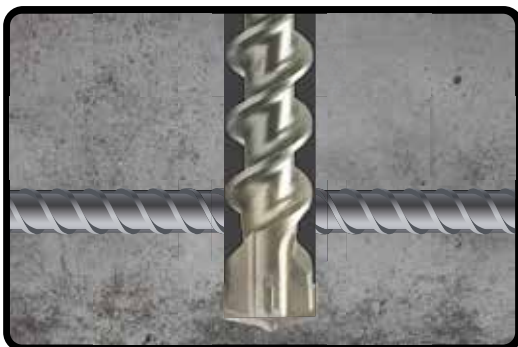
- Reinforced Concrete
- Brick
- Stone
- Masonry
- Aggregates



SOLD INDIVIDUALLY.
1 PER TUBE.

Bosch® License

WILL PENETRATE THROUGH REINFORCED CONCRETE





- ◆ Made In USA
- ◆ 1/2" Universal Shank
- ◆ Milled Teeth
- ◆ Matrix II Cutting Edge
- ◆ Tooth Hardness Rc 65-67
- ◆ 8% Cobalt
- ◆ Vacuum Heat Treatment
- ◆ Long Life
- ◆ Shock Resistant Teeth
- ◆ High Edge Hardness
- ◆ High Heat Resistance
- ◆ High Wear Resistance
- ◆ Greater Rigidity
- ◆ Resists Tooth Strippage
- ◆ Accepts Higher Feed Pressure

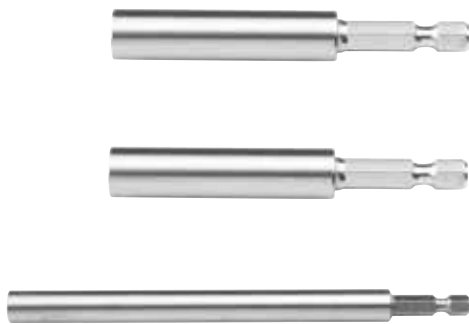


All Purpose Reciprocating Blades - Bi-Metal

Part #	Blade Length	Teeth Per Inch	Pack Description	Width / Length	Qty.
C60100	6"	6T	WOOD & NAIL SLOPE	3/4" x 6" x .050	5
C60101	9"	6T	WOOD & NAIL	3/4" x 9" x .050	5
C60102	12"	6T	WOOD & NAIL	3/4" x 12" x .050	5
C60103	6"	14T	METAL	3/4" x 6" x .035	5
C60104	6"	18T	METAL	3/4" x 6" x .035	5
C60105	6"	24T	METAL	3/4" x 6" x .035	5
C60106	8"	10T	METAL	3/4" x 8" x .035	5
C60107	8"	14T	METAL	3/4" x 8" x .035	5
C60108	8"	18T	METAL	3/4" x 8" x .035	5
C60109	12"	18T	METAL	3/4" x 12" x .035	5

- ◆ For all 1/4" Hex Insert Bits

Bit Holders - Stainless Steel - Magnetic



Part #	OAL	Body Dia.	Retaining Ring	Description	Qty.
T14100	3"	7/16"	YES	1PC. CONSTRUCTION	1

Part #	OAL	Body Dia.	Retaining Ring	Description	Qty.
T14101	4"	7/16"	YES	1PC. CONSTRUCTION	1

Part #	OAL	Body Dia.	Retaining Ring	Description	Qty.
T14102	6"	7/16"	YES	1PC. CONSTRUCTION	1



Lag Driver / Ceiling Tile Hanger Driver

Part #	Size	Type	Qty.
T51107	7/16" X 2-3/16"	LAG DRIVER WITH SLEEVE	10

- ◆ S2 Modified Steel
- ◆ Rc. 58-62 Heat Treated
- ◆ German Grade Steel



Phillips® Bits - 1/4" Hex Shank

Part #	Size	OAL	Type	Qty.
T50002	#1 X 1"		PHILLIPS INSERT	25
T50009	#1 X 2"		PHILLIPS POWER	25
T50100	#1 X 6"		PHILLIPS POWER	25
T50003	#2 X 1"		PHILLIPS INSERT	25
T50010	#2 X 2"		PHILLIPS POWER	25
T50101	#2 X 6"		PHILLIPS POWER	25
T50004	#3 X 1"		PHILLIPS INSERT	25
T50011	#3 X 2"		PHILLIPS POWER	25
T50102	#3 X 6"		PHILLIPS POWER	25



Star Insert Bits - 1/4" Hex Shank

Part #	Size	OAL	Type	Qty.
T58100	T6 X 1"		STAR INSERT	25
T58101	T7 X 1"		STAR INSERT	25
T58102	T8 X 1"		STAR INSERT	25
T58103	T9 X 1"		STAR INSERT	25
T58104	T10 X 1"		STAR INSERT	25
T58105	T15 X 1"		STAR INSERT	25
T58106	T20 X 1"		STAR INSERT	25
T58107	T25 X 1"		STAR INSERT	25
T58108	T27 X 1"		STAR INSERT	25
T58109	T30 X 1"		STAR INSERT	25
T58110	T40 X 1"		STAR INSERT	25
T58111	T10 X 2"		STAR POWER	25
T58112	T15 X 2"		STAR POWER	25
T58113	T20 X 2"		STAR POWER	25
T58114	T25 X 2"		STAR POWER	25
T58115	T27 X 2"		STAR POWER	25
T58116	T30 X 2"		STAR POWER	25
T58117	T40 X 2"		STAR POWER	25



Phillips® Stopper - 1/4" Hex Shank

Part #	Size	OAL	Type	Qty.
T50103	#2 X 1"		PHILLIPS STOPPER	25



Square Power Bits - 1/4" Hex Shank

Part #	Size	OAL	Type	Qty.
T59100	#1 X 1"		SQUARE INSERT	25
T59101	#1 X 2"		SQUARE POWER	25
T59102	#1 X 6"		SQUARE POWER	25
T59103	#2 X 1"		SQUARE INSERT	25
T59104	#2 X 2"		SQUARE POWER	25
T59105	#2 X 6"		SQUARE POWER	25
T59106	#3 X 1"		SQUARE INSERT	25
T59107	#3 X 2"		SQUARE POWER	25
T59108	#3 X 6"		SQUARE POWER	25



Hex Insert Bits - 1/4" Hex Shank

Part #	Size	OAL	Type	Qty.
T12100	5/64" X 1"		HEX INSERT	25
T12101	3/32" X 1"		HEX INSERT	25
T12102	7/64" X 1"		HEX INSERT	25
T12103	1/8" X 1"		HEX INSERT	25
T12104	5/32" X 1"		HEX INSERT	25
T12105	3/16" X 1"		HEX INSERT	25

- ◆ S2 Modified Steel
- ◆ Rc. 58-62 Heat Treated
- ◆ German Grade Steel



Spanner Insert Bits - 1/4" Hex Shank

Part #	Size	OAL	Type	Qty.
T13100	#6 X 1"		SPANNER	25
T13101	#8 X 1"		SPANNER	25
T13102	#10 X 1"		SPANNER	25
T13103	#12 X 1"		SPANNER	25
T13104	#14 X 1"		SPANNER	25



Hex Tamper Insert Bits - 1/4" Hex

Part #	Size	OAL	Type	Qty.
T13300	3/32" X 1"		HEX TAMPER	25
T13301	1/8" X 1"		HEX TAMPER	25
T13302	9/64" X 1"		HEX TAMPER	25
T13303	5/32" X 1"		HEX TAMPER	25
T13304	3/16" X 1"		HEX TAMPER	25
T13305	7/32" X 1"		HEX TAMPER	25
T13306	1/4" X 1"		HEX TAMPER	25
T13307	5/16" X 1"		HEX TAMPER	25



Star Tamper Insert Bits - 1/4" Hex

Part #	Size	OAL	Type	Qty.
T13200	T8 X 1"		STAR TAMPER	25
T13201	T9 X 1"		STAR TAMPER	25
T13202	T10 X 1"		STAR TAMPER	25
T13203	T15 X 1"		STAR TAMPER	25
T13204	T20 X 1"		STAR TAMPER	25
T13205	T25 X 1"		STAR TAMPER	25
T13206	T27 X 1"		STAR TAMPER	25
T13207	T30 X 1"		STAR TAMPER	25
T13208	T40 X 1"		STAR TAMPER	25



Tri-Wing Tamper Insert Bits - 1/4" Hex

Part #	Size	OAL	Type	Qty.
T13400	#1 X 1"		TRI-WING	25
T13401	#2 X 1"		TRI-WING	25
T13402	#3 X 1"		TRI-WING	25



Phillips® Tamper Insert Bits - 1/4" Hex

Part #	Size	OAL	Type	Qty.
T13500	#2 X 1"		PHILLIPS TAMPER	25
T13501	#3 X 1"		PHILLIPS TAMPER	25

Nut Setters - Magnetic Impact Protection

Part #	Hex Head Size	X	OAL	Type	Qty.
T51200	1/4"	X	1-3/4"	MAGNETIC IMPACT	10
T51201	1/4"	X	2-9/16"	MAGNETIC IMPACT	10
T51202	1/4"	X	4"	MAGNETIC IMPACT	5
T51203	1/4"	X	6"	MAGNETIC IMPACT	5
T51204	5/16"	X	1-3/4"	MAGNETIC IMPACT	10
T51205	5/16"	X	2-9/16"	MAGNETIC IMPACT	10
T51206	5/16"	X	4"	MAGNETIC IMPACT	5
T51207	5/16"	X	6"	MAGNETIC IMPACT	5
T51208	3/8"	X	1-3/4"	MAGNETIC IMPACT	10
T51209	3/8"	X	2-9/16"	MAGNETIC IMPACT	10
T51210	3/8"	X	4"	MAGNETIC IMPACT	5
T51211	3/8"	X	6"	MAGNETIC IMPACT	5

- ◆ Made for Powerful Impact Drivers / Wrenches
- ◆ 1pc Construction
- ◆ Industrial Grade Magnet
- ◆ 1/4" Hex Power Shank



1-3/4" Long



2-9/16" Long



4" Long

Nut Setters - Magnetic (Standard)

Part #	Hex Head Size	X	OAL	Type	Qty.
T51003	1/4"	X	1-3/4"	MAGNETIC	10
T51100	1/4"	X	2-9/16"	MAGNETIC	10
T51303	1/4"	X	4"	MAGNETIC	5
T51005	5/16"	X	1-3/4"	MAGNETIC	10
T51101	5/16"	X	2-9/16"	MAGNETIC	10
T51305	5/16"	X	4"	MAGNETIC	5
T51006	3/8"	X	1-3/4"	MAGNETIC	10
T51102	3/8"	X	2-1/8"	MAGNETIC	10
T51103	3/8"	X	2-9/16"	MAGNETIC	10
T51306	3/8"	X	4"	MAGNETIC	5
T51104	7/16"	X	1-3/4"	MAGNETIC	5
T51105	7/16"	X	2-9/16"	MAGNETIC	5
T51008	1/2"	X	1-3/4"	MAGNETIC	5
T51106	1/2"	X	2-9/16"	MAGNETIC	5

- ◆ 1pc Construction
- ◆ Industrial Grade Magnet
- ◆ 1/4" Hex Power Shank



1-3/4" Long



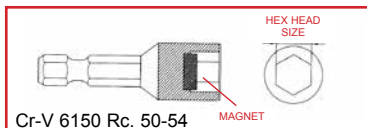
2-1/8" Long



2-9/16" Long



4" Long



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