



# Tools – Black & Gold Jobber Length Drill Bits



228807 shown

## Black & Gold Drills

These high performance twist drills are suitable for all normal drilling in conventional materials. High Speed Steel bits with 5% Cobalt alloy (HSS-Co5) and a black oxide surface treatment on the bevel decreases cutting forces and increases wear resistance of the bit.

- Point Cut: from 1/16" dia. with split point DIN 1412 C
- Shank: 5/32 and larger, three-surface shank
- Point angle: 135°
- Helix angle: 40°
- Right hand cutting

## Features

RUKO black & gold drills 5/32 and larger feature a 3-surface shank that helps align the bit in the chuck and eliminates bit spinning to provide ideal power transmission. A 135° cutting edge precisely aligns the bit and helps prevent drill bit walking. The black oxide surface treatment on the bevel increases wear resistance, preventing cold welding and edge build up and helps reduce current draw on the machine. The 40° helix angle enables fast chip removal and allows a high cutting speed with bit stability.

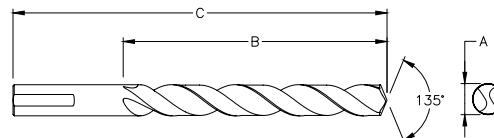
## Application

Use black & gold HSS-Co5 drills for:

- Alloyed and unalloyed steel (up to strength of 1200 N/mm<sup>2</sup>)
- Steel resistant to rust and acid
- Cast iron
- Aluminum
- Aluminum alloys
- Copper
- Brass and bronze

Jobber Length Drill Bits - Fractional Sizes

	Part # Black and Gold HSS-Co5	Pcs/ Pkg	Price	Drill Size (Gauge) (in.)	Ø Size (A) (in.)	Flute Length (B) (in.)	Overall Length (C) (in.)	For Tapping Use With
Fractional	228801	10	\$17.75	1/16	0.0625	7/8	1-7/8	
	228802	10	\$18.50	5/64	0.0781	1	2	
	228803	10	\$19.25	3/32	0.0938	1 1/4	2-1/4	
	228804	10	\$20.50	7/64	0.1094	1 1/2	2-5/8	
	228805	10	\$22.00	1/8	0.1250	1-5/8	2-3/4	
	228806	10	\$24.50	9/64	0.1406	1-3/4	2-7/8	
	228807	10	\$26.50	5/32	0.1562	2	3-1/8	
	228808	10	\$29.50	11/64	0.1719	2-1/8	3-1/4	
	228809	10	\$34.50	3/16	0.1875	2-5/16	3-1/2	
	228810	10	\$34.50	13/64	0.2031	2-7/16	3-5/8	
	228811	10	\$37.00	7/32	0.2188	2-1/2	3-3/4	
	228812	10	\$40.50	15/64	0.2344	2-5/8	3-7/8	
	228813	10	\$42.00	1/4	0.2500	2-3/4	4	
	228814	10	\$47.50	17/64	0.2656	2-7/8	4-1/8	
	228815	10	\$59.00	9/32	0.2813	2-15/16	4-1/4	
	228816	10	\$61.00	19/64	0.2969	3-1/16	4-3/8	
	228817	10	\$66.00	5/16	0.3125	3-3/16	4-1/2	265038UNC
	228818	10	\$76.00	21/64	0.3281	3-5/16	4-5/8	
	228819	10	\$84.00	11/32	0.3438	3-7/16	4-3/4	
	228820	10	\$88.00	23/64	0.3594	3-1/2	4-7/8	
	228821	10	\$92.00	3/8	0.3750	3-5/8	5	
	228822	10	\$99.00	25/64	0.3906	3-3/4	5-1/8	
	228823	10	\$102.00	13/32	0.4062	3-7/8	5-1/4	
	228824	5	\$59.00	27/64	0.4219	3-15/16	5-3/8	
	228825	5	\$62.00	7/16	0.4375	4-1/16	5-1/2	
	228826	5	\$71.00	29/64	0.4531	4-3/16	5-5/8	
	228827	5	\$73.00	15/32	0.4688	4-5/16	5-3/4	
	228828	5	\$79.00	31/64	0.4844	4-3/8	5-7/8	
	228829	5	\$85.00	1/2	0.5000	4-1/2	6	



Jobber length drill bit



# Tools – Black & Gold Jobber Length Drill Bit Sets



**Black & Gold jobber length drill set 228850RO shown**

Drill Bit Sets		
Part #	Price	Description
<b>228850RO</b>	\$109.00	<u>21-piece jobber length drill set</u> Fractional sizes 1/16 to 3/8 inch in increments of 1/64 inch, Cobalt 5 alloy, golden brown with black oxide bevel finish, 135 degrees point, heavy-duty plastic case included
<b>228851RO</b>	\$194.00	<u>29-piece jobber length drill set</u> Fractional sizes 1/16 to 1/2 inch in increments of 1/64 inch, Cobalt 5 alloy, golden brown with black oxide bevel finish, 135 degrees point, heavy-duty plastic case included