



# Tools – Black & Gold Jobber Length Drill Bits



228807

## Application

Use black & gold HSS-Co5 drills for:

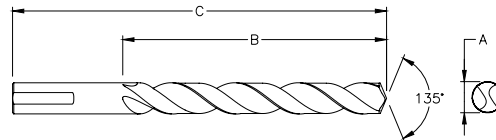
- Alloyed and unalloyed steel (up to strength of 1200 N/mm2)
- Steel resistant to rust and acid
- Cast iron
- Aluminum
- Aluminum alloys
- Copper
- Brass and bronze

## 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.

## 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.



Jobber length drill 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

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
228801	10		1/16	0.0625	7/8	1-7/8	
228802	10		5/64	0.0781	1	2	
228803	10		3/32	0.0938	1 1/4	2-1/4	
228804	10		7/64	0.1094	1 1/2	2-5/8	
228805	10		1/8	0.1250	1-5/8	2-3/4	
228806	10		9/64	0.1406	1-3/4	2-7/8	
228807	10		5/32	0.1562	2	3-1/8	
228808	10		11/64	0.1719	2-1/8	3-1/4	
228809	10		3/16	0.1875	2-5/16	3-1/2	
228810	10		13/64	0.2031	2-7/16	3-5/8	
228811	10		7/32	0.2188	2-1/2	3-3/4	
228812	10		15/64	0.2344	2-5/8	3-7/8	
228813	10		1/4	0.2500	2-3/4	4	
228814	10		17/64	0.2656	2-7/8	4-1/8	
228815	10		9/32	0.2813	2-15/16	4-1/4	
228816	10		19/64	0.2969	3-1/16	4-3/8	
228817	10		5/16	0.3125	3-3/16	4-1/2	265038UNC
228818	10		21/64	0.3281	3-5/16	4-5/8	
228819	10		11/32	0.3438	3-7/16	4-3/4	
228820	10		23/64	0.3594	3-1/2	4-7/8	
228821	10		3/8	0.3750	3-5/8	5	
228822	10		25/64	0.3906	3-3/4	5-1/8	
228823	10		13/32	0.4062	3-7/8	5-1/4	
228824	5		27/64	0.4219	3-15/16	5-3/8	
228825	5		7/16	0.4375	4-1/16	5-1/2	
228826	5		29/64	0.4531	4-3/16	5-5/8	
228827	5		15/32	0.4688	4-5/16	5-3/4	
228828	5		31/64	0.4844	4-3/8	5-7/8	
228829	5		1/2	0.5000	4-1/2	6	