



Tools – Hole Saws

Bi-Metal Hole Saws • Applications

Use High Speed Steel saws with varied cutting teeth for easily cut materials, such as unalloyed steel (up to 101,521 psi strength), non-ferrous and light metals, plastics, plasterboard and light building boards, fiberboard, plywood and wood.

Use High Speed Steel Cobalt 8 saws with fine cutting teeth for cutting metals such as alloyed and non-alloyed steels (up to 145,037 psi strength), high chromium alloyed steels, such as stainless steel, steels resistant to rusts and acids, non-ferrous and light metals.



Features

- Cutting edges of HSS or HSS Co 8
- Alloyed steel 6135 jacket
- Cutting depth up to 1-1/2" (38 mm)
- High rotational precision
- Sturdy construction
- Hole saw and shank in two parts, so hole saws of different diameters can be exchanged and fitted faster
- Positive chipping and cutting angles ensure more aggressive cutting
- Teeth welded onto steel jacket
- HSS hole saws have 5 teeth per inch, Co 8 hole saws have 6 teeth per inch
- Good chip removal
- Slots in the jacket side aid in removal of cutouts
- Exchangeable centering drill
- Right-hand cutting
- Arbors are sold separately

RUKO Hole Saws Selection Guide

Part # High Speed Steel	Price	Part # High Speed Steel Cobalt 8	Price	Diameter (mm) A	Diameter (inch) A	Conduit Size	Pipe Size (inch)	Arbor Holders
106014		126014		14	9/16	–	–	A1 / A5
106016		126016		16	5/8	–	–	A1 / A5
106017		not available		17	11/16	–	–	A1 / A5
106019		126019		19	3/4	–	3/8	A1 / A5
106020		not available		20	25/32	–	–	A1 / A5
106021		not available		21	13/16	–	–	A1 / A5
106022		126022		22	7/8	1/2	1/2	A1 / A5
106024		126024		24	15/16	–	–	A1 / A5
106025		126025		25	1	–	–	A1 / A5
106027		126027		27	1-1/16	–	–	A1 / A5
106029		126029		29	1-1/8	3/4	3/4	A1 / A5
106030		126030		30	1-3/16	–	–	A1 / A5
106032		126032		32	1-1/4	–	–	A2 / A6
106033		not available		33	1-5/16	–	–	A2 / A6
106035		126035		35	1-3/8	1	1	A2 / A6
106036		not available		36	1-13/32	–	–	A2 / A6
106037		not available		37	1-7/16	–	–	A2 / A6
106038		126038		38	1-1/2	–	–	A2 / A6
106040		not available		40	1 9/16	–	–	A2 / A6
106041		126041		41	1-5/8	–	–	A2 / A6
106043		126043	Retired	43	1-11/16	–	–	A2 / A6
106044		126044		44	1-3/4	1-1/4	1-1/4	A2 / A6
106046		126046		46	1-13/16	–	–	A2 / A6
106048		126048		48	1-7/8	–	–	A2 / A6
106051		126051		51	2	1-1/2	1-1/2	A2 / A6
106052		not available		52	2-1/16	–	–	A2 / A6
106054		126054		54	2-1/8	–	–	A2 / A6
106055		not available		55	2-11/64	–	–	A2 / A6
106057		126057		57	2-1/4	–	–	A2 / A6
106059		not available		59	2-5/16	–	–	A2 / A6

Tools – Hole Saws

Dimensions



Important Operating Notes

- These saws are unsuitable for hammer drill operation
- Only slight pressure required to start drilling
- Drill with light, steady pressure
- Avoid pendulum movements while drilling
- Follow table of cutting speeds
- Use cooling agents recommended for material
- Arbors are sold separately

Note: For pushbuttons, use RUKO knockout punches listed in previous pages.

RUKO Hole Saws Selection Guide, continued

Part # High Speed Steel	Price	Part # High Speed Steel Cobalt 8	Price	Diameter (mm) A	Diameter (inch) A	Conduit Size	Pipe Size (inch)	For Arbor Holders
106060		126060		60	2-3/8	–	–	A2 / A6
106063		not available		63	2-15/32	–	–	A2 / A6
106064		126064		64	2-1/2	2	2	A2 / A6
106065		not available		65	2-9/16	–	–	A2 / A6
106067		126067		67	2-5/8	–	–	A2 / A6
106068		not available		68	2-11/16	–	–	A2 / A6
106070		126070		70	2-3/4	–	–	A2 / A6
106073		126073		73	2-7/8	–	–	A2 / A6
106076		126076		76	3	2-1/2	2-1/2	A2 / A6
106079		126079		79	3-1/8	–	–	A2 / A6
106083		126083		83	3-1/4	–	–	A2 / A6
106086		126086		86	3-3/8	–	–	A2 / A6
106089		126089		89	3-1/2	–	–	A2 / A6
106092		126092		92	3-5/8	3	3	A2 / A6
106095		126095		95	3-3/4	–	–	A2 / A6
106098		126098		98	3-7/8	–	–	A2 / A6
106102		126102		102	4	–	–	A2 / A6
106105		not available		105	4-1/8	3-1/2	3-1/2	A2 / A6
106108		126108		108	4-1/4	–	–	A2 / A6
106111		126111		111	4-3/8	–	–	A2 / A6
106114		126114		114	4-1/2	4	4	A2 / A6
106121		126121		121	4-3/4	–	–	A2 / A6
106127		126127		127	5	–	–	A2 / A6
106133		not available		133	5-1/4	–	–	A2 / A6
106140		126140		140	5-1/2	–	5	A2 / A6
106152		126152		152	6	–	–	A2 / A6
106160		126160		160	6-5/16	–	–	A2 / A6
106168		126168		168	6-5/8	–	–	A2 / A6
106177		not available		177	6-31/32	–	–	A2 / A6
106200		126200		210	8-1/4	–	–	A2 / A6

Tools – Hole Saws

Arbor Holders with Pilot Drill

To select the correct arbor size, find the arbors that are compatible with your hole saw diameter.

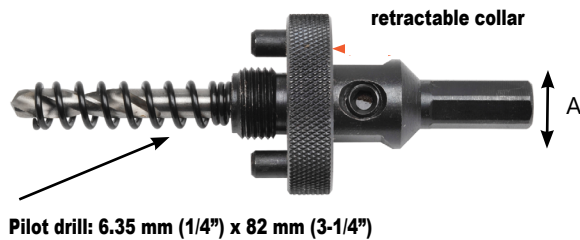
From those, choose one with a shank size that fits into your drill chuck.

Arbors include HSS pilot bit, ejector spring and 4 mm allen wrench.



Part Numbers **106202**, **106209**

RUKO Arbor Holders with Pilot Drill for HSS Hole Saws						
Part # High Speed Steel	Price	Hole Saws Diameter (inch)	Arbor Holders Type	Shank Diameter (inch) A	Shank Shape	Thread
106201		9/16 - 1-3/16	A1	7/16	Hex	1/2in x 20 thread
106202		1-1/4 - 8-1/4	A2	7/16	Hex	5/8in x 18 thread
106209		1-1/4 - 8-1/4	A6	3/8	Hex	5/8in x 18 thread
106210		9/16 - 1-3/16	A5	3/8	Hex	1/2in x 20 thread



Part Numbers **106201**, **106210**



Pilot Drills



RUKO Pilot Drill for HSS and HSS Co8 Hole Saws					
Part # High Speed Steel	Price	Part # High Speed Steel Cobalt 8	Price	Arbor Holders Type	Description
106206		126206		A1, A2, A5, A6	Pilot drill HSS / HSS Co 5, ground, Ø 6.35 mm x 82 mm and split point in accordance with DIN 1412 C

Tools – Hole Saw Kits

Bi-Metal hole saw kits include either 6, 10 or 15 High-speed steel or Colbalt 8 hole saws of various sizes in a plastic case.



106304

RUKO Bi-Metal Hole Saw Kits							
Part # HSS Varied Tooth	Price	Part # HSS-Co8 Fine Tooth	Price	Type	Hole Saw Diameters Included inches (mm)	Arbors Included	Pcs / Pkg
106302		126302		Electricians	7/8, 1-1/8, 1-3/8, 1-3/4, 2, 2-11/16 (22.0, 29.0, 35.0, 44.0, 51.0, 68.0)	A2, A4	8
106304		126304		Super	7/8, 1, 1-1/4, 1-3/8, 1-5/8, 1-3/4, 2, 2-1/8, 2-3/8, 2-1/2 (22.0, 25.0, 32.0, 35.0, 41.0, 44.0, 51.0, 54.0, 60.0, 64.0)	A2, A4	12
106318		126318*		Premium	5/8, 3/4, 13/16, 15/16, 1, 1-1/8, 1-1/4, 1-7/16, 1-9/16, 1-7/8, 2, 2-1/8, 2-3/8, 2-7/8, 3-1/4 (16.0, 19.0, 21.0, 24.0, 25.0, 29.0, 32.0, 37.0, 40.0, 48.0, 51.0, 54.0, 60.0, 73.0, 83.0)	A1, A2	19

*Includes 1/4" pilot drill and 11.81 inch long extension



Tools – Hole Saws

Recommended Cutting Speeds

RUKO Hole Saws Recommended Cutting Speeds									
Material		High carbon structural steel up to 101,521 psi	Alloyed steel up to 145,037 psi	Cast iron over 36,259 psi	CuZn alloy	Aluminium alloy up to 11% Silicon	Thermo-plastics	Duro-plastics	Wood
Vc = m/min		30	20	10	35	30	20	15	40
Coolant		Cutting spray	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
Ø inch	Ø mm	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.
9/16	14	682	455	227	796	682	455	341	910
5/8	16	597	398	199	697	597	398	299	796
11/16	17	562	375	187	656	562	375	281	749
3/4	19	503	335	168	587	503	335	251	670
25/32	20	477	318	159	557	477	318	239	637
13/16	21	455	303	152	531	455	303	227	607
7/8	22	434	290	145	507	434	290	217	579
15/16	24	398	265	133	464	398	265	199	531
1	25	382	255	127	446	382	255	191	510
1-1/16	27	354	236	118	413	354	236	177	472
1-1/8	29	329	220	110	384	329	220	165	439
1-3/16	30	318	212	106	372	318	212	159	425
1-1/4	32	299	199	100	348	299	199	149	398
1-5/16	33	290	193	97	338	290	193	145	386
1-3/8	35	273	182	91	318	273	182	136	364
1-13/32	36	265	177	88	310	265	177	133	354
1-7/16	37	258	172	86	301	258	172	129	344
1-1/2	38	251	168	84	293	251	168	126	335
1-9/16	40	239	159	80	279	239	159	119	318
1-5/8	41	233	155	78	272	233	155	117	311
1-11/16	43	222	148	74	259	222	148	111	296
1-3/4	44	217	145	72	253	217	145	109	290
1-13/16	46	208	138	69	242	208	138	104	277
1-7/8	48	199	133	66	232	199	133	100	265
2	51	187	125	62	219	187	125	94	250
2-1/16	52	184	122	61	214	184	122	92	245
2-1/8	54	177	118	59	206	177	118	88	236
2-11/64	55	174	116	58	203	174	116	87	231
2-1/4	57	168	112	56	196	168	112	84	223
2-5/16	59	162	108	54	189	162	108	81	216
2-3/8	60	159	106	53	186	159	106	80	212
2-15/32	63	152	101	51	177	152	101	76	202
2-1/2	64	149	100	50	174	149	100	75	199
2-9/16	65	147	98	49	171	147	98	73	196
2-5/8	67	143	95	48	166	143	95	71	190
2-11/16	68	141	94	47	164	141	94	70	187
2-3/4	70	136	91	45	159	136	91	68	182
2-7/8	73	131	87	44	153	131	87	65	175
3	76	126	84	42	147	126	84	63	168
3-1/8	79	121	81	40	141	121	81	60	161
3-1/4	83	115	77	38	134	115	77	58	153
3-3/8	86	111	74	37	130	111	74	56	148
3-1/2	89	107	72	36	125	107	72	54	143



Tools – Hole Saws – Recommended Cutting Speeds, continued

RUKO Hole Saws Recommended Cutting Speeds, continued									
Material	High carbon structural steel up to 101,521 psi	Alloyed steel up to 145,037 psi	Cast iron over 36,259 psi	CuZn alloy	Aluminium alloy up to 11% Silicon	Thermo-plastics	Duro-plastics	Wood	
Vc = m/min	30	20	10	35	30	20	15	40	
Coolant	Cutting spray	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air	
Ø inch	Ø mm	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.
3-5/8	92	104	69	35	121	104	69	52	138
3-3/4	95	101	67	34	117	101	67	50	134
3-7/8	98	97	65	32	114	97	65	49	130
4	102	94	62	31	109	94	62	47	125
4-1/8	105	91	61	30	106	91	61	45	121
4-1/4	108	88	59	29	103	88	59	44	118
4-3/8	111	86	57	29	100	86	57	43	115
4-1/2	114	84	56	28	98	84	56	42	112
4-3/4	121	79	53	26	92	79	53	39	105
5	127	75	50	25	88	75	50	38	100
5-1/4	133	72	48	24	84	72	48	36	96
5-1/2	140	68	45	23	80	68	45	34	91
6	152	63	42	21	73	63	42	31	84
6-5/16	160	60	40	20	70	60	40	30	80
6-5/8	168	57	38	19	66	57	38	28	76
6-31/32	177	54	36	18	63	54	36	27	72
8-1/4	210	45	30	15	53	45	30	23	61

Note: Vc equals the recommended maximum linear speed of hole saw for each material.



Tools – Jig Saw Blades

RUKO T-shank jig saw blades in 5 or 20 piece sets for a variety of applications.

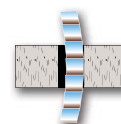
Fits power tools by Bosch®, Atlas Copco®, AEG®, Makita®, Metabo®, Black and Decker® and Hitachi®.

- All models have a wavy side set to prevent clamping of the saw blade in the work piece.
- Narrow blades (7.1 mm height) are suitable for profiled cuts.
- Bi-metal blades have a high-speed steel (HSS) cutting edge and high carbon steel (HCS) spine. This makes them highly flexible with high cutting performance and long service life for conditions where the saw blade is subjected to extreme stresses.



3218009

Wavy Side Set



Jig Saw Blades						
Part #	Pcs/ Pkg	Price	Construction	Tooth Spacing	Recommended Applications	Dimensions Length x Height x Thickness
3218009	5		HSS	24 teeth/in	Metals up to 5/64in [2mm] Fiberglass up to 5/32in [4mm] Hard plastics, hard fabrics, pressed materials and insulation materials up to 5/16in [8mm]	77.0 x 7.1 x 1.0 mm [3.03 x 9/32 x 0.04 in]
3238009	20					
3218011	5		HSS	14 teeth/in	Mild steel up to 5/16in [4mm] Stainless steel up to 7/64in [3mm] Non-ferrous metals up to 3/8in [9.5 mm]	77.0 x 7.9 x 1.0 mm [3.03 x 5/16 x 0.04 in]
3238011	20					
3218033	5		Bi-metal	21 teeth/in	Mild steel, stainless steel and non-ferrous metals 1/16 to 5/32in [1.5 to 4 mm]	77.0 x 7.9 x 1.0 mm [3.03 x 5/16 x 0.04 in]
3238033	20					

Note - Competitive blade specifications may vary.



Tools – Deburring Tools

Deburring Tools					
Part #	Pcs/ Pkg	Price	Description	Common Uses	
<u>107010</u>	1		Universal deburring Handle, with spare blade storage compartment	–	
<u>107011</u>	1		Steel blade holder for B blades	–	
<u>107012</u>	1		Deburring blade - B10	HSS blade most commonly used for internal and external deburring work on long-chipping materials such as steel, aluminum, plastics etc.	
<u>107014</u>	1		Deburring blade - B20	HSS blade used for short-chipping materials such as brass and cast iron. Can be used in both directions.	
<u>107015</u>	1		Deburring blade - B30	HSS blade suitable for the simultaneous deburring of inside and outside bores in material up to 5/32" thick.	
<u>107016</u>	1		Deburring blade - B50	Scriber with carbide-tipped point, regrindable.	
<u>107019</u>	1		Steel blade holder for C blades	–	
<u>107020</u>	1		Deburring blade - C40	Small HSS triangular scraper for precision work on surfaces up to 5/32" wide.	
<u>107021</u>	1		Deburring blade - C42	Large HSS triangular scraper for precision work on surfaces up to 5/16" wide.	
<u>107025</u>	1		Steel blade holder for E blades	–	
<u>107026</u>	1		Deburring blade - E100	HSS blade with B 10 cutting edge, long shank only. For internal and external deburring work on long-chipping materials such as steel, aluminum, plastics etc.	
<u>107027</u>	1		Deburring blade - E200	HSS blade with B 20 cutting edge, long shank only. For short-chipping materials such as brass and cast iron. Usable in both directions.	
<u>107028</u>	1		Deburring blade - E300	HSS blade with B 30 cutting edge, long shank only. For simultaneous deburring of internal and external bores in materials up to 5/32" thick.	
<u>107029</u>	1		Deburring blade - E350	HSS blade suitable for deburring straight edges, keyways etc.	
<u>107031</u>	1		Steel blade holder for F countersinks	–	
<u>107032</u>	1		Countersink F12	HSS countersink for deburring holes up to 1/2" Dia	
<u>107033</u>	1		Countersink F20	HSS countersink for deburring holes up to 3/4" Dia	
<u>107034</u>	1		Countersink F30	HSS countersink for deburring holes up to 1-3/16" Dia	
<u>107054</u>	1		Deburring tool with changeable E100 Blade	Internal and External deburring on long-chipping materials such as steel, aluminum and plastic.	