

### Tungsten carbide hole saws, shallow cut

Cutting edges: tungsten carbide  
 Material thickness: up to 4mm  
 Cutting depth: up to max. 10mm  
 Cutting angle: works standard

Suitable for high-alloyed steels such as stainless and acid resistant steel (up to 2mm), steel and cast steel, non-ferrous and light metals, plastics, reinforced fabrics, plasterboard and light building boards, wood.

Right hand cutting

Ø mm	Ø inch	Through dimensions M + PG	Tube dimensions inch	Shank Ø mm	Part no.
16.0	5/8	~ PG 9		10	R105016
16.5		M 16		10	R105165
17.0				10	R105017
18.0				10	R105018
18.7		PG 11		10	R105186
19.0	3/4		3/8	10	R105019
20.0				10	R105020
20.4	13/16	M 20/PG 13.5		10	R105204
21.0				10	R105021
22.0			1/2	10	R105022
22.5	7/8	PG 16		10	R105225
23.0				10	R105023
24.0	15/16			10	R105024
25.0				10	R105025
25.5	1	M 25		10	R105255
26.0				10	R105026
27.0	1 1/16			10	R105027
28.0	1 3/32			10	R105028
28.3	1 1/8	PG 21		10	R105283
29.0			3/4	10	R105029
30.0	1 3/16			10	R105030
31.0	1 7/32			10	R105031
32.0	1 1/4			10	R105032
32.5				10	R105325
33.0				10	R105033
34.0				10	R105034
35.0	1 3/8		1	10	R105035
36.0				10	R105036
37.0	1 7/16	PG 29		10	R105037
38.0	1 1/2			10	R105038
39.0				10	R105039
40.0	1 9/16			10	R105040
40.5		M 40		10	R105405
41.0	1 5/8			10	R105041
42.0				10	R105042
43.0	1 11/16			10	R105043
44.0	1 3/4		1 1/4	10	R105044
45.0				10	R105045
46.0				10	R105046
47.0	1 7/8	PG 36		10	R105047
48.0				10	R105048
49.0				10	R105049
50.0	1 31/32			10	R105050
50.5		M 50		10	R105505
51.0	2		1 1/2	13	R105051
52.0				13	R105052
53.0				13	R105053
54.0	2 1/8	PG 42		13	R105054
55.0				13	R105055
56.0				13	R105056
57.0	2 1/4			13	R105057
58.0				13	R105058
59.0				13	R105059
60.0	2 3/8	~PG 48		13	R105060
63.5	2 1/2	M 63	2	13	R105635
65.0				13	R105065



#### Characteristics:

- Pilot drill HSS Co5
- Split point in accordance with DIN 1412C
- High rotational precision
- Sturdy construction
- Hole saw and shank in one piece
- Triangular shank
- With cutting-depth limiter
- Positive chipping angle with specially ground cutting edge
- Good chip removal
- Exchangeable centring drill
- Regrindable tungsten-carbide blades
- Unsuitable for percussion-drill operation
- Only slight pressure required to start drilling
- Drill with light, steady pressure
- Avoid pendulum movements while drilling
- Observe table of drilling speeds
- Use prescribed cooling agents

RUKO tungsten-carbide-tipped hole saws can be used in hand and pillar drills. When employing pillar drills, use manual advance only.

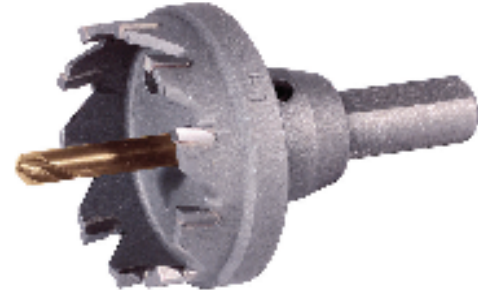
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#### Right hand cutting

Ø mm	Ø inch	Through dimensions M + PG	Tube dimensions inch	Shank Ø mm	Part no.
68.0				13	R105068
70.0	2 3/4			13	R105070
75.0				13	R105075
80.0				13	R105080
85.0				13	R105085
90.0				13	R105090
95.0	3 3/4			13	R105095
100.0				13	R105100
110.0				13	R105110
120.0				13	R105120
130.0	5 1/8			13	R105130
140.0	5 1/2			13	R105140
150.0				13	R105150



### Pilot drills for tungsten carbide hole saws, shallow cut

Version HSS Co 5 ground blade  
 split point in accordance  
 with DIN 1412 C  
 tungsten carbide blade

Suitable for high-alloyed steels such as stainless and acid resistant steel (up to 2mm), steel and cast steel, non-ferrous and light metals, plastics, reinforced fabrics, plasterboard and light building boards, wood.

Material	Ø mm	Length mm	For hole saws Ø mm	For hole saws cutting depth	Part no.
HSS Co 5	6	52.00	16 - 70	shallow	R105170
HSS Co 5	8	52.00	75 - 150	shallow	R105171
tungsten carbide	6	52.00	16 - 70	shallow	R105172
tungsten carbide	8	52.00	75 - 150	shallow	R105173
Ejector spring					R105174



### HSS bi-metal hole saws, with varied toothings

Ø mm	Ø inch	Through dimensions M + PG	Tube dimensions inch	For arbor holders	Part no.
14	9/16			A1 / A4 / A5	R106014
16	5/8	~ PG 9		A1 / A4 / A5	R106016
17				A1 / A4 / A5	R106017
19	3/4	~ PG 11	3/8	A1 / A4 / A5	R106019
20				A1 / A4 / A5	R106020
21		~ PG 13.5		A1 / A4 / A5	R106021
22	7/8		1/2	A1 / A4 / A5	R106022
24	15/16	~ PG 16		A1 / A4 / A5	R106024
25	1			A1 / A4 / A5	R106025
27	1 1/16			A1 / A4 / A5	R106027
28	1 3/32			A1 / A4 / A5	R106028
29	1 1/8	~ PG 21	3/4	A1 / A4 / A5	R106029
30	1 3/16			A1 / A4 / A5	R106030
32	1 1/4			A2 / A6 / A7	R106032
33				A2 / A6 / A7	R106033
35	1 3/8		1	A2 / A6 / A7	R106035
36				A2 / A6 / A7	R106036
37		PG 29		A2 / A6 / A7	R106037
38	1 1/2			A2 / A6 / A7	R106038
40				A2 / A6 / A7	R106040
41	1 5/8			A2 / A6 / A7	R106041
43	1 11/16			A2 / A6 / A7	R106043
44	1 3/4		1 1/4	A2 / A6 / A7	R106044
46	1 13/16			A2 / A6 / A7	R106046
48	1 7/8	~ PG 36		A2 / A6 / A7	R106048
51	2		1 1/2	A2 / A6 / A7	R106051
52				A2 / A6 / A7	R106052
54	2 1/8	PG 42		A2 / A6 / A7	R106054
55				A2 / A6 / A7	R106055
57	2 1/4			A2 / A6 / A7	R106057
59				A2 / A6 / A7	R106059
60	2 3/8	~ PG 48		A2 / A6 / A7	R106060
63				A2 / A6 / A7	R106063
64	2 1/2		2	A2 / A6 / A7	R106064
65				A2 / A6 / A7	R106065
67	2 5/8			A2 / A6 / A7	R106067
68				A2 / A6 / A7	R106068
70	2 3/4			A2 / A6 / A7	R106070
73	2 7/8			A2 / A6 / A7	R106073
76	3		2 1/2	A2 / A6 / A7	R106076
79	3 1/8			A2 / A6 / A7	R106079
83	3 1/4			A2 / A6 / A7	R106083
86	3 3/8			A2 / A6 / A7	R106086
89	3 1/2			A2 / A6 / A7	R106089
92	3 5/8		3	A2 / A6 / A7	R106092
95	3 3/4			A2 / A6 / A7	R109095
98	3 7/8			A2 / A6 / A7	R106098
102	4			A2 / A6 / A7	R106102
105			3 1/2	A2 / A6 / A7	R106105
108	4 1/4			A2 / A6 / A7	R106108
111	4 3/8			A2 / A6 / A7	R106111
114	4 1/2		4	A2 / A6 / A7	R106114
121	4 3/4			A2 / A6 / A7	R106121
127	5			A2 / A6 / A7	R106127
140	5 1/2			A2 / A6 / A7	R106140
152	6			A2 / A6 / A7	R106152
160	6 5/16			A2 / A6 / A7	R106160
168	6 5/8			A2 / A6 / A7	R106168
177				A2 / A6 / A7	R106177
210	8 9/32			A2 / A6 / A7	R106200

Suitable for unalloyed steel (up to 700 N/mm<sup>2</sup> strength), non-ferrous and light metals, plastics, plasterboard and light building boards, fibreboard, plywood and wood.

Cutting edges: HSS  
 Jacket: special steel  
 Cutting depth: up to max. 38mm (1 1/2")  
 Cutting teeth: varied toothings  
 Right hand cutting  
 Packing unit: individual carton



Characteristics:  
 High rotational precision  
 Sturdy construction  
 Hole saw and shank in two parts, so hole saws of different diameters can be exchanged and fitted more rapidly  
 A1, A2, A5, A6 arbor with hexagonal shank and A7 arbor with SDS-plus shank  
 A4 arbor with cylindrical shank  
 Positive chipping and cutting angles ensure more aggressive cutting  
 Varied toothings ensures:  
 -smoother cutting  
 -less effort  
 -less vibration and heat production during cutting  
 -up to three times longer tool life  
 The HSS teeth are welded onto a jacket of special steel  
 Good chip removal  
 Slots in the jacket side assist removal of cutouts  
 Exchangeable centring drill  
 Unsuitable for percussion-drill operation  
 Only slight pressure required to start drilling  
 Drill with light, steady pressure  
 Avoid pendulum movements while drilling  
 Observe table of drilling speeds  
 Use prescribed cooling agents

RUKO HSS bi-metal hole saws can be used in hand and pillar drills. When employing pillar drills, use manual advance only.  
 Also suitable for other makes of drill.  
 Prices without arbor.

### Arbor holders including pilot drill for HSS and HSS Co 8 bi-metal hole saws

Packing unit: in individual carton

Hole saws Ø mm	Type	Shank Ø mm	Shank shape	Thread	Part no.
14.0 - 30.0	A1	11.0		1/2" x 20	R106201
32.0 - 210.0	A2	11.0		5/8" x 18	R106202
14.0 - 30.0	A4	6.0		1/2" x 20	R106204
14.0 - 30.0	A5	9.5		1/2" x 20	R106210
32.0 - 210.0	A6	9.5		5/8" x 18	R106209
32.0 - 210.0	A7	10.0	SDS-plus	5/8" x 18	R106211



R106202

### Adapter for arbor holders, type A1 / A4 / A5

Packing unit: individual plastic pack

Description	Part no.
Adaptor to support HSS and HSS Co 8 bi-metal hole saws from Ø 32 to Ø 210mm	R106212



R106212

### Accessories for HSS and HSS Co 8 bi-metal hole saws

Packing unit: individual plastic pack

Description	Part no.
Pilot drill HSS, ground, Ø 6.35mm x 102mm and split point in accordance with DIN 1412C (A4)	R106207
Pilot drill HSS, ground, Ø 6.35mm x 82mm and split point in accordance with DIN 1412C (A1 + A2 + A5 + A6 + A7)	R106206
Extension 300mm, arbors for A1 + A2	R106205
Ejector spring	R106208



R106207



R106205



R106208

### Sets of HSS bi-metal hole saws in plastic cases

Type	Description	Part no.
PK 1	For plumbers 6 HSS bi-metal hole saws Ø 19 - 22 - 29 - 38 - 44 - 57mm + 2 arbor holders A2 and A4	R106301
PK2	For plumbers 9 HSS bi-metal hole saws Ø 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64mm + 2 arbor holders A2 and A4	R106306



### Sets of HSS bi-metal hole saws in plastic cases

Type	Description	Part no.
EK1	For electricians 6 HSS bi-metal hole saws Ø 22 - 29 - 35 - 44 - 51 - 64mm + 2 arbor holders A2 and A4	R106305
EK2	For electricians 6 HSS bi-metal hole saws Ø 22 - 29 - 35 - 44 - 51 - 68mm + 2 arbor holders A2 and A4	R106302
Universal	10 HSS bi-metal hole saws Ø 19 - 22 - 25 - 29 - 35 - 38 - 44 - 51 - 57 - 64mm +2 arbor holders A2 and A4	R106303
Super	10 HSS bi-metal hole saws Ø 22 - 25 - 32 - 35 - 41 - 44 - 51 - 54 - 60 - 64mm +2 arbor holders A2 and A4	R106304
Premium	15 HSS bi-metal hole saws Ø 16 - 19 - 21 - 24 - 25 - 29 - 32 - 37 40 - 48 - 51 - 54 - 60 - 73 - 83 mm + 2 arbor holders A1 and A2 + 1 Pilot drill HSS Ø 6.35mm x 82mm +1 Extension 300mm, arbors for A1 and A2	R106318



R106304



R106318

### Sets of HSS Co 8 bi-metal hole saws in plastic cases

Type	Description	Part no.
PK1	For plumbers 6 HSS Co 8 bi-metal hole saws Ø 19 - 22 - 29 - 38 - 44 - 57mm +2 arbor holders A2 and A4	R126301
PK2	For plumbers 9 HSS Co 8 bi-metal hole saws Ø 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64mm +2 arbor holders A2 and A4	R126306
EK1	For electricians 6 HSS Co 8 bi-metal hole saws Ø 22 - 29 - 35 - 44 - 51 - 64mm +2 arbor holders A2 and A4	R126305
EK2	For electricians 6 HSS Co 8 bi-metal hole saws Ø 22 - 29 - 35 - 44 - 51 - 64mm +2 arbor holders A2 and A4	R126302
Universal	10 HSS Co 8 bi-metal hole saws Ø 19 - 22 - 25 - 29 - 35 - 38 - 44 - 51 - 57 - 64mm +2 arbor holders A2 and A4	R126303
Super	10 HSS Co 8 bi-metal hole saws Ø 22 - 25 - 32 - 35 - 41 - 44 - 51 - 54 - 60 - 64mm +2 arbor holders A2 and A4	R126304
Premium	15 HSS Co8 bi-metal hole saws Ø 16 - 19 - 21 - 24 - 25 - 29 - 32 - 37 40 - 48 - 51 - 54 - 60 - 73 - 83mm +2 arbor holders A1 and A2 + 1 Pilot drill HSS Ø 6.35mm x 82mm + 1 Extension 300mm, arbors for A1 and A2	R126318



R126306



R126304