

HOLE SAWS

Bi-Metal Hole Saw

Manufactured in high-speed steel HSS Bi-Metal M42 (8 % Cobalt).



- Variable Pitch: 4/6 Teeth per inch.
- Normal Pitch: 10 Teeth per inch.
- for skilled craftsmen and industrial use

Other dimensions are also available.

Ref.	Diameter		Ref.	Diameter	
	(mm)	Inch		(mm)	Inch
J.COS14V	14	9/16	J.COS60V	60	2 3/8
J.COS16V	16	5/8	J.COS63V	63	1 7/8
J.COS17V	17	11/16	J.COS64V	64	2 1/2
J.COS19V	19	3/4	J.COS65V	65	2 3/16
J.COS20V	20	25/32	J.COS67V	67	2 5/9
J.COS21V	21	13/16	J.COS68V	68	2 11/16
J.COS22V	22	7/8	J.COS70V	70	2 3/4
J.COS23V	23	29/32	J.COS73V	73	2 7/8
J.COS24V	24	15/16	J.COS76V	76	3
J.COS25V	25	1	J.COS79V	79	3 1/8
J.COS27V	27	1 1/16	J.COS83V	83	3 1/4
J.COS29V	29	1 1/8	J.COS86V	86	3 3/8
J.COS30V	30	1 3/16	J.COS89V	89	3 1/2
J.COS32V	32	1 1/4	J.COS92V	92	3 5/8
J.COS33V	33	1 5/16	J.COS95V	95	3 3/4
J.COS35V	35	1 3/8	J.COS98V	98	3 7/8
J.COS37V	37	1 7/16	J.COS102V	102	4
J.COS38V	38	1 1/2	J.COS105V	105	4 1/8
J.COS40V	40	1 9/16	J.COS108V	108	4 1/4
J.COS41V	41	1 5/8	J.COS111V	111	4 3/8
J.COS43V	43	1 1/16	J.COS114V	114	4 1/2
J.COS44V	44	1 3/4	J.COS121V	121	4 3/4
J.COS46V	46	1 13/18	J.COS127V	127	5
J.COS48V	48	1 7/8	J.COS133V	133	5 1/2
J.COS50V	50	1 7/8	J.COS140V	140	5 1/2
J.COS51V	51	2	J.COS146V	146	5 1/2
J.COS52V	52	2 1/16	J.COS152V	152	6
J.COS54V	54	2 1/8	J.COS160V	160	6 5/16
J.COS56V	56	1 7/8	J.COS168V	168	6 5/8
J.COS57V	57	2 1/4	J.COS177V	177	7
J.COS58V	58	1 7/8	J.COS200V	200	5 1/2
J.COS59V	59	2 5/16	J.COS210V	210	8 5/16

Hole Saw Sets



Hole Saw Sets supplied in light shockproof cases. With the most common sizes for the most frequent applications, and the corresponding hole saw arbors and accessories. Suitable for carpenters, plumbers, electricians, mechanics, DIY, . . .

Ref.	application	Diameter (mm)	Arbors	Extension
J.EQC1	no. 1	16-22-29-35-44-51	H3A+H4A	–
J.EQC2	no. 2	19-22-29-35-38-44-51-57-68	H3A+H4A	–
J.EQC3	no. 3	19-22-25-32-35-38-44-51-57-64-68-76	H3A+H4A	EXS 330

Other combinations available on request.

Hole Saws (Grit)

Carbide gritted



Carbide gritted hole saws are best for very hard and abrasive materials like:

- cast iron,
- fiber reinforced plastic, graphite composites, carbon, plastic laminates, composition board,
- masonry materials and cement.

Ref.	Diameter (mm)	Inch	Ref.	Diameter (mm)	Inch
J.COG14N	14	9/16	J.COG64N	64	2 1/2
J.COG16N	16	5/8	J.COG65N	65	2 3/16
J.COG17N	17	11/16	J.COG67N	67	2 5/9
J.COG19N	19	3/4	J.COG68N	68	2 11/16
J.COG20N	20	25/32	J.COG70N	70	2 3/4
J.COG21N	21	13/16	J.COG73N	73	2 7/8
J.COG22N	22	7/8	J.COG76N	76	3
J.COG23N	23	29/32	J.COG79N	79	3 1/8
J.COG24N	24	15/16	J.COG83N	83	3 1/4
J.COG25N	25	1	J.COG86N	86	3 3/8
J.COG27N	27	1 1/16	J.COG89N	89	3 1/2
J.COG29N	29	1 1/8	J.COG92N	92	3 5/8
J.COG30N	30	1 3/16	J.COG95N	95	3 3/4
J.COG32N	32	1 1/4	J.COG98N	98	3 7/8
J.COG33N	33	1 5/16	J.COG102N	102	4
J.COG35N	35	1 3/8	J.COG105N	105	4 1/8
J.COG37N	37	1 7/16	J.COG108N	108	4 1/4
J.COG38N	38	1 1/2	J.COG111N	111	4 3/8
J.COG40N	40	1 9/16	J.COG114N	114	4 1/2
J.COG41N	41	1 5/8	J.COG121N	121	4 3/4
J.COG43N	43	1 1/16	J.COG127N	127	5
J.COG44N	44	1 3/4	J.COG133N	133	
J.COG46N	46	1 13/18	J.COG140N	140	5 1/2
J.COG48N	48	1 7/8	J.COG146N	146	
J.COG51N	51	2	J.COG152N	152	6
J.COG52N	52	2 1/16	J.COG160N	160	6 5/16
J.COG54N	54	2 1/8	J.COG168N	168	6 5/8
J.COG57N	57	2 1/4	J.COG177N	177	7
J.COG59N	59	2 5/16	J.COG200N	200	
J.COG60N	60	2 3/8	J.COG210N	210	8 5/16



Accessories for Bi-Metal and Carbide gritted Hole Saw Blades

Hole Saw Blade Arbors for Bi-Metal



Ref.	Hole Saw diameter	Characteristics	Arbor diameter
J.H1	from Ø 14 to Ø 30	round shaft	Ø 6.35 mm (1/4 inch)
J.H3	from Ø 14 to Ø 30	hexagonal shaft	Ø 11 mm
J.H3A	from Ø 14 to Ø 30	hexagonal shaft	Ø 9.52 mm
J.H3B	from Ø 14 to Ø 30	hexagonal shaft	Ø 8.75 mm
J.H3SDS	from Ø 14 to Ø 30	SDS plus	
J.H4	from Ø 32 to Ø 210	hexagonal shaft	Ø 11 mm
J.H4A	from Ø 32 to Ø 210	hexagonal shaft	Ø 9.52 mm
J.H4B	from Ø 32 to Ø 210	hexagonal shaft	Ø 8.75 mm
J.H4SDS	from Ø 32 to Ø 210	SDS plus	

Special production available.

Hole Saw Blade Arbors for Grit Hole Saws

Ref.	Hole Saw diameter	Characteristics	Arbor diameter
J.HC1	from Ø 14 to Ø 30	round shaft	Ø 6.35 mm (1/4 inch)
J.HC3	from Ø 14 to Ø 30	hexagonal shaft	Ø 11 mm
J.HC3A	from Ø 14 to Ø 30	hexagonal shaft	Ø 9.52 mm
J.HC3SDS	from Ø 14 to Ø 30	SDS plus	
J.HC4	from Ø 32 to Ø 210	hexagonal shaft	Ø 11 mm
J.HC4A	from Ø 32 to Ø 210	hexagonal shaft	Ø 9.52 mm
J.HC4SDS	from Ø 32 to Ø 210	SDS plus	

Special production available.

Part for Hole Saws



Arbor adapter	
	Reducing bore Ø 5/8" to Ø 3/8" for the use of hole saws from Ø 32 to 210 with J.H1, J.H3, J.H3a & J.H3SDS arbors.
Ref.	
J.AH12	

Extension	
Ref.	Characteristics
J.EXT330	330 mm / Ø 11.2 mm
J.EXT330A	330 mm / Ø 9.52 mm

Spring	
Ref.	
J.M7	

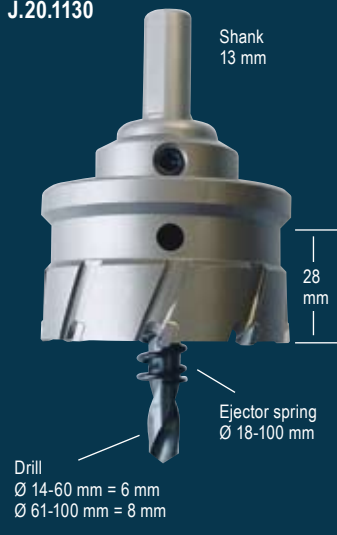
Drill HSS (ground)	
Ref.	Characteristics
J.BR85 HSS	HSS-85 mm
J.BR105 HSS	HSS-105 mm
J.BR85 HM	Tungston Carbide Tipped 85 mm
J.BR105 HM	Tungston Carbide Tipped 105 mm

Morse Cone	
Ref.	Characteristics
J.CM2	no. 2
J.CM3	no. 3

HEAVY-DUTY

Hole Saw Heavy-Duty model and core drill combined in one tool

J.20.1130



Model Ref. J.20.1130:

The hole saws comes with 13 mm shank, HSS drill, ejector spring and allen key (has to be assembled)

Model Ref. J.20.1130 A:

The Hole Saws comes without shank, centre drill, ejector spring. Choose from the accessories to individually tailor your hole saw (allen key enclosed).

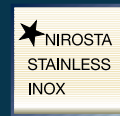
- For portable machines
- For pillar drilling machines
- For core drilling machines...

See next page to choose from the accessories.

J.20.1130 A



Maximum cutting depth:



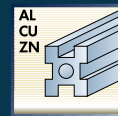
stainless
up to 28mm



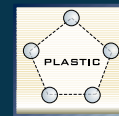
steel
up to 28mm



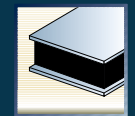
sheet metal
up to 28mm



ALU/non-ferrous metal
up to 28mm



plastics
up to 28mm



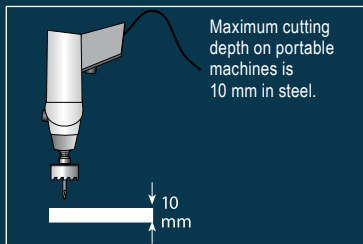
sandwich materials
up to 28mm

Application:

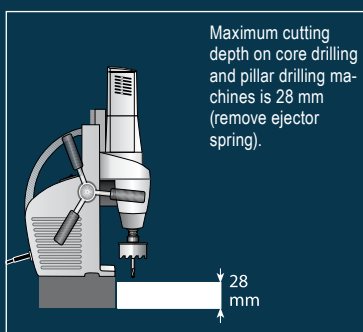
- for sheet material
- for pipes, vaulted surfaces
- cuts overlapping holes

For using on following machines:

Core drilling machines up to 28 mm cutting depth in steel
Pillar drilling machines up to 28 mm cutting depth in steel
Portable drilling machines up to 10 mm cutting depth in steel



For cutting depth over 6 mm we recommend repeated chip removal by lightly lifting or quickly removing the hole saw from the hole being drilled.

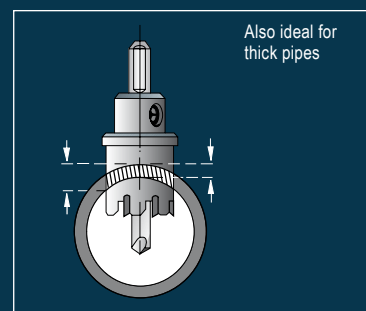
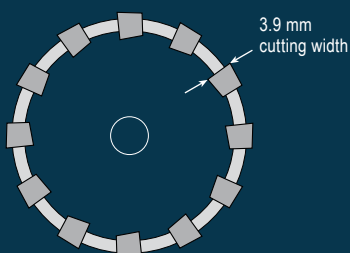


Ref.
J.20.1130
J.20.1130A

Ø mm	14	23	32.5	42	52	62	80
	15	24	33	43	53	63	85
	16	25	34	44	54	64	90
	16.5	25.5	35	45	55	65	95
	17	26	36	46	56	66	100
	18	27	37	47	57	67	
	19	28	38	48	58	68	Other Ø on request
	20	29	39	49	59	69	
	20.5	30	40	50	60	70	
	21	31	40.5	50.5	60.5	75	
	22	32	41	51	61	78	

As from diameter 61 mm we recommend to use our MT tool holder (see Ref. J.20.1135/J.20.1136)

Ø 16.5/20.5/25.5/32.5/40.5/50.5/60.5 = Drilling and thread cutting for cable connections according to the newest Euro-Norm DIN EN 60423.



Accessories For using portable drilling machines



shank Ø 10 mm for hole saws Ø 15-36 mm
Suitable centre drill see Ref. J.20.1110 or J.20.1445. **J.20.1131**



shank Ø 13 mm for hole saws Ø 15-60 mm
Suitable centre drill see Ref. J.20.1110 or J.20.1445. **J.20.1134**



shank Ø 13 mm for hole saws Ø 61-100 mm
Suitable centre drill see Ref. J.20.1110 or J.20.1445. **J.20.1137**



shank SDS-PLUS for hole saws Ø 16-100 mm
Suitable centre drill see Ref. J.20.1133 or J.20.1446.
Use only without hammer **J.20.1123**



HSS centre drill 6x80 mm for shank (J.20.1131, J.20.1134)
for average use **J.20.1110**



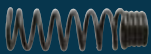
HSS centre drill (cross hatch+coated) 6x80 mm for shank (J.20.1131, J.20.1134)
for heavy-duty use **J.20.1445**



HSS centre drill 8x80 mm for shank (J.20.1123, J.20.1137)
for average use **J.20.1133**



HSS centre drill (cross hatch+coated) 8x80 mm for shank (J.20.1123, J.20.1137)
for heavy-duty use **J.20.1446**



Ejector spring for centre drill Ø 6 mm = (J.20.1110, J.20.1445)
Pushes the core slug out of the hole saw. Can be used from Ø 18-100 mm. **J.20.1003**



Ejector spring for centre drill Ø 8 mm = (J.20.1133, J.20.1446)
Pushes the core slug out of the hole saw. Can be used from Ø 18-100 mm. **J.20.1006**

For using pillar drilling machines



Morse Taper 2 for hole saws Ø 16-100 mm
Suitable centre drill see Ref. J.20.1133 or J.20.1446. **J.20.1135**



Morse taper 3 for hole saws Ø 16-100 mm
Suitable centre drill see Ref. J.20.1133 or J.20.1446. **J.20.1136**

For using core drilling machines



Adapter for core drilling machines with Weldon shank 19 mm for Ø 14-65 mm **J.20.1442**



Adapter for core drilling machines with Weldon shank 32 mm for Ø 14-100 mm
Strongly recommended for Ø 60-100 mm. **J.20.1453**



Adapter for Fein- core drilling machines with Quick-In shank for Ø 14-65 mm **J.20.1443**



Adapter for Nitto-Kohki- core drilling machines with "one touch" shank for Ø 14-65 mm **J.20.1444**

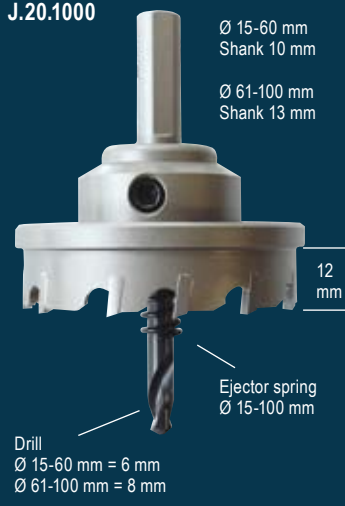


Suitable ejector pins for above mentioned adapters (packing unit: 2 pieces) **J.20.1271**

T.C.T. Hole Saw Short-type

Multi-tooth model for clean cutting edges and more lifetime

J.20.1000



Model Ref. J.20.1000:

The hole saws comes with 10/13 mm shank, HSS-drill, ejector spring and allen key (has to be assembled).

Model Ref. J.20.1000 A:

The hole saws comes without shank, HSS-centre drill, ejector spring (allen key enclosed). Choose from the accessories.

To individually tailor your hole saw for:

- Portable machines
- Pillar drilling machines
- Core drilling machines

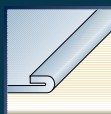
J.20.1000 A



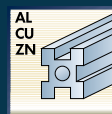
drills in:



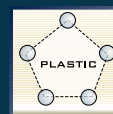
Maximum cutting depth:
 up to 4 mm
 Chrome nickel steel up to 2mm



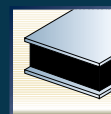
sheet metal
 up to 4 mm



non-ferrous metals
 up to 6 mm



plastics
 up to 6 mm



sandwich materials
 up to 6 mm

For using on following machines:

Core drilling machines up to 4 mm cutting depth in steel
 Pillar drilling machines up to 4 mm cutting depth in steel
 Portable drilling machines up to 4 mm cutting depth in steel

- High concentricity through strong construction
- Positive rake for good disposal of chips
- Large T.C. inserts for resharping up to six times

Ref.

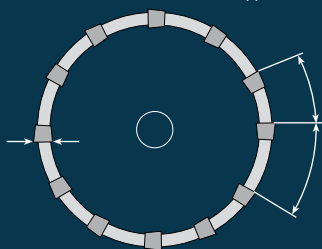
J.20.1000

J.20.1000A \varnothing mm

15	23	32	40.5	50	60	69
16	24	32.5	41	50.5	60.5	70
16.5	25	33	42	51	61	75
17	25.5	34	43	52	62	80
18	26	35	44	53	63	85
19	27	36	45	54	64	90
20	28	37	46	56	65	95
20.5	29	38	47	57	66	100
21	30	39	48	58	67	Other \varnothing on request
22	31	40	49	59	68	request

\varnothing 16.5 , 20.5 , 25.5 , 32.5 , 40.5 , 50.5 , 60.5 = Drilling and thread cutting for cable connections according to the newest Euro-Norm DIN EN 60423.

Cutting width
 approx. 2 mm



Variable teeth, less vibration, longer tool life, smoother cutting

Accessories For using portable drilling machines



shank Ø 10 mm for hole saws Ø 15-60 mm
Suitable centre drill see Ref. J.20.1011 or J.20.1440.

J.20.1131



shank Ø 13 mm for hole saws Ø 61-100 mm
Suitable centre drill see Ref. J.20.1012 or J.20.1441.

J.20.1137



shank SDS-PLUS for hole saws Ø 15-100 mm
Suitable centre drill see Ref. J.20.1012 or J.20.1441.
Use only without hammer

J.20.1123



HSS centre drill 6x60 mm for shank (J.20.1131)
for average use

J.20.1011



HSS centre drill (cross hatch+coated) 6x60 mm for shank (J.20.1131)
for heavy-duty use

J.20.1440



HSS centre drill 8x60 mm for shank (J.20.1123, J.20.1137)
for average use

J.20.1012



HSS centre drill (cross hatch+coated) 8x60 mm for shank (J.20.1123, J.20.1137)
for heavy-duty use

J.20.1441



Ejector spring for centre drill Ø 6 mm = (J.20.1011, J.20.1440)
Pushes the core slug out of the hole saw

J.20.1001



Ejector spring for centre drill Ø 8 mm = (J.20.1012, J.20.1441)
Pushes the core slug out of the hole saw

J.20.1002

For using pillar drilling machines



Morse Taper 2 for hole saws Ø 15-100 mm
Suitable centre drill see Ref. J.20.1012 or J.20.1441.

J.20.1135



Morse Taper 3 for hole saws Ø 15-100 mm
Suitable centre drill see Ref. J.20.1012 or J.20.1441.

J.20.1136

For using core drilling machines



Adapter for core drilling machines with Weldon shank 19 mm

J.20.1442



Adapter for Fein- core drilling machines with "Quick In" shank

J.20.1443



Adapter for Nitto-Kohki- core drilling machines with "one touch" shank

J.20.1444



Suitable ejector pins for above mentioned adapters (packing unit: 2 pieces)

J.20.1261

HM-Hole Saw Multi Purpose Multi-tooth model for clean cutting edges and more lifetime

J.20.1121



Model Ref. J.20.1121:

The hole saws comes with 13 mm shank HSS-drill, ejector spring and allen key (has to be assembled).

Model Ref. J.20.1121 A:

The hole saws comes without shank HSS-drill, ejector spring (allen key is included).

To individually tailor your hole saw for:

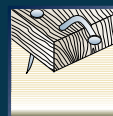
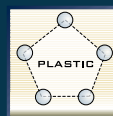
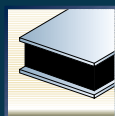
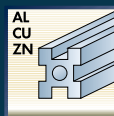
- Portable machines
- Pillar drilling machines
- Core drilling machines

See next page to choose from the accessories.

J.20.1121 A



drills in:



Maximum cutting depth:

non-ferrous metals
up to 60 mm

sandwich-materials
up to 60 mm

plastics
up to 60 mm

wood with nails
up to 60 mm

wood
up to 60 mm

ceramics
up to 60 mm

For using on following machines:

Core drilling machines up to 60 mm cutting depth

Pillar drilling machines up to 60 mm cutting depth

Portable drilling machines up to 60 mm cutting depth

More teeth for clean cutting edges and more lifetime.

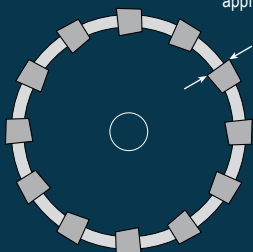
Ø 25 - 35 mm = 4 teeth

Ø 40 - 45 mm = 6 teeth

Ø 50 - 75 mm = 8 teeth

Ø 76 - 105 mm = 12 teeth

Cutting width
approx. 2.4 mm



Ø mm	Examples for application	Ref. J.20.1121 and J.20.1121 A
25	Sanitary and heating pipes	
30		
35		
40	Sanitary drain pipes, water and heating pipes with insulation	
45		
50		
55		
58	Build in lamps	
60	Cover for cable opening	
63	Switch box	
65	Hollow wall boxes 65 mm	
68	Hollow wall boxes 68 mm	
70	Branch boxes 70 mm	
71		
74	Branch boxes 74 mm	
75		
76	Build in lamps	
80	Distributing box	
85		
90	Build in lamps	
95		
100		
105	Outgoing air pipes	

Accessories For using portable drilling machines



shank Ø 13 mm for hole saws Ø 25-105 mm
Suitable centre drill see Ref. J.20.1111 or J.20.1127.

J.20.1137



shank SDS-PLUS for hole saws Ø 25-105 mm
Suitable centre drill see Ref. J.20.1111 or J.20.1127.
Use only without hammer

J.20.1123



HSS centre drill 8x104 mm
For all sandwich materials, non-ferrous materials, plastic, wood and similiar.

J.20.1111



HM centre drill 8x104 mm
For masonry, ceramics, auto claved aerated concrete and similiar.

J.20.1127



Ejector spring for centre drill (J.20.1111, J.20.1127)
Pushes the core slug out of the hole saw

J.20.1005

For using pillar drilling machines



Morse Taper 2 for hole saws Ø 25-105 mm
Suitable centre drill see Ref. J.20.1111 or J.20.1127.

J.20.1135



Morse Taper 3 for hole saws Ø 25-105 mm
Suitable centre drill see Ref. J.20.1111 or J.20.1127.

J.20.1136

For using core drilling machines



Adapter for core drilling machines with Weldon shank 19 mm

J.20.1442



Adapter for Fein- core drilling machines with "Quick In" shank

J.20.1443



Adapter for Nitto-Kohki- core drilling machines with "one touch" shank

J.20.1444



Suitable ejector pins for above mentioned adapters (packing unit: 2 pieces)

J.20.1160