



Tec-Spiral®

Better Cutter, Better Work

Cutting Tool (III)

Core Drill & Hole Saw

High Performance Quality For Industrial Applications



Introduction

Tec-Spiral, with state-of-the-art technology, manufactures a full range of high performance quality core drills and hole saws in China.

With the spirit of Continual Innovation, unceasing improvement, we are able to provide not only various standard cutters, but also customized cutters.

We are always following the strictest international standard in our production, inspection and quality control. The ISO9001-2008 certification granted by LRQA resulted from our strict quality control system and excellent business management. We never stop the pursuit of constant improvement.

By using high quality HSS, HSS Cobalt, alloy steel and carbide raw material and advanced CNC machine, we are manufacturing first class core drills and hole saws in modern plant. With remarkable manufacture ability and abundant inventory we can meet customers' various demands in very short time.

Our staff members all bear in mind the importance of customer satisfaction. Advanced technology, stable quality and quick response are the keys to our customer satisfaction.

We are a leading pioneer in the field of core drills and hole saws in China. Our products are widely used in the global fields of railway construction, bridge construction, building construction, etc. We are providing the best solutions for cutting on metal and nonmetal. Great passion is always our inspiration to fulfill the desire of mutual development with our customers and to meet the new challenges.



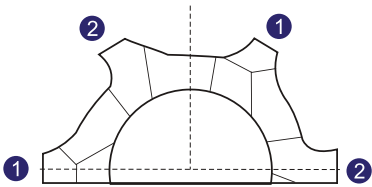
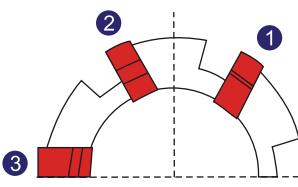
Warmly welcome your visit at Tec-spiral. We will be at your service at anywhere and any time!







Product Features

- ◆ Used on the Magnet-Seat Drilling Machines and Press, Milling machine also available
- ◆ Best choice for annular drilling on steel plate materials and large workpieces
- ◆ Special multi-Cut design help to remove chips and reduce cutting resistance.
- ◆ With center pin for piloting and ejecting the cutted piece
- ◆ Much higher in cutting efficient and better cutting result than the traditional Twist Drills
- ◆ Suitable for Steel Structure Projects, Railway-Traffic, Bridging, Shipbuilding, Aviation and Spaceflight Industry





Core Drill Series

HSS Core Drill	T.C.T. Core Drill
 <ul style="list-style-type: none"> ◆ Made by solid high performance High Speed Steel ◆ The mainly and widely used in practical using ◆ Can be re-grinding (reshaped) for many times after using. 	 <ul style="list-style-type: none"> ◆ Carbide tipped cutting edge welded to the tough alloy steel body ◆ High cutting speed, High wear resistance and considerably longer tool life ◆ Can achieve good drilling performance on complicated (harder) materials.
	 <ul style="list-style-type: none"> ① Outer Blade ② Middle Blade ③ Inner Blade

Shank Type

<p style="text-align: center;">Weldon Shank</p>	
<ul style="list-style-type: none"> ◆ Ø19.05mm(3/4") Most popular shank ◆ With high precision fixing with arbor ◆ Have more secure clamping ◆ Suitable for most brands of magnet drilling machines, Like Alfa, Hougén, Jancy, Euroboor, BDS, Ruko and all kinds of drilling presses 	
<p style="text-align: center;">Universal Shank</p>	
<ul style="list-style-type: none"> ◆ Ø19.05mm (3/4") ◆ Easy loading and removing ◆ Suitable for all kinds of magnetic drills and press 	
<p style="text-align: center;">FEIN Quick-IN Shank</p>	
<ul style="list-style-type: none"> ◆ Ø18mm ◆ Special for FEIN magnetic drills ◆ More fast in cutter changing 	
<p style="text-align: center;">Thread Shank</p>	
<ul style="list-style-type: none"> ◆ Thread : M18 x 6 P1.5 mm ◆ Specially for FEIN and HITACHI magnetic drills. 	

Center Pin

Center Pin	Size	Suitable For	Order No.
	6.34/5.3 x 77mm	Cutting depth 30mm	14QZ00003
	6.34/5.3 x 102mm	Cutting depth 55mm	14QZ00004
	7.98 x 130mm	Cutting depth 80mm	14QZ00005
	7.98 x 160mm	Cutting depth 110mm	14QZ00006
	7.98 x 90mm	T.C.T. Cutter dia.18-60mm Cutting depth 40mm	14QZ00002
	7.98 x 105mm	T.C.T. Cutter dia.18-60mm Cutting depth 55mm	14QZ00007

Selection of the Core Drills

Cut material Page No.	HSSM2 Core Drills	HSS-E Core Drills	T.C.T. Core Drills
Carbon Steel (up to 500N)	★	★	★
Carbon Steel (up to 750N)	●	★	★
Alloy Steel (up to 900N)	√	★	★
Alloy Steel (up to 1100N)		★	★
Alloy Steel (up to 1400N)		●	★
Stainless Steel (to 900N)		●	★
Stainless Steel (from 900N)		√	★
Aluminum Steel	●	★	★
Carbon, Bress, Nickel, Tin		●	●
Plastic	★	★	
Cast iron		√	★
Graphit			★
Hard Soil, Nickel based alloy			★
Railtraficks		√	√

Note:

★	The optical Choice
●	The good choice
√	The possible Choice

Recommended Cutting Speeds



For HSS Core Drills

Material		High Carbon Struc steel up to <750	Alloyed steel up to <1200	Stainless Steel	Aluminum	Grey Cast iron	Brass	Copper
Vc=m/min		20	10	12	37	18	25	40
Coolant		Cutting spray	Cutting spray	Cutting spray	Cutting spray	Compr. Air	Cutting spray	Cutting spray
Ø mm	Ø inch	r.p.m	r.p.m	r.p.m	r.p.m	r.p.m	r.p.m	r.p.m
12-18	7/16"-11/16"	530-350	265-175	320-210	980-655	480-320	660-440	1060-700
19-25	3/4"-1"	340-250	165-130	200-150	620-470	300-230	420-320	670-510
26-32	1 1/16"-1 1/4"	245-200	125-100	145-120	455-370	200-180	305-250	490-400
33-39	1 5/16"-1 9/16"	195-165	95-80	115-95	360-305	175-147	240-200	390-330
40-46	1 5/8"-1 13/16"	160-140	79-70	90-85	295-255	143-125	195-170	320-280
47-53	1 7/8"-2 1/16"	135-120	67-60	80-72	250-225	122-108	165-150	270-240
54-60	2 1/8"-2 3/8"	115-105	58-53	70-63	220-195	106-95	145-130	235-210
61-70	2 13/32"-2 3/4"	163-90	52-45	62-54	193-170	93-81	125-115	205-180
71-80	2 51/64"- 3 5/32"	87-78	44-40	53-47	165-150	80-71	110-100	178-160
81-90	3 3/16"- 3 9/16"	77-70	39-35	46-42	145-130	70-63	95-90	157-140
91-100	3 19/32"- 3 15/16"	68-63	34-32	41-38	129-117	62-57	85-80	138-130

For T.C.T. Core Drill

Vc=m/min		45	30	20	90	35	50	35
12-18	7/16"-11/16"	1327-796	795-530	530-350	2390-1590	930-620	1325-885	930-620
19-25	3/4"-1"	754-537	500-380	340-250	1510-1150	590-450	840-635	590-450
26-32	1 1/16"-1 1/4"	550-448	370-300	245-200	1100-895	430-340	615-500	430-340
33-39	1 5/16"-1 9/16"	434-367	290-245	195-165	870-735	335-285	490-410	335-285
40-46	1 5/8"-1 13/16"	358-311	240-265	160-140	715-625	280-240	400-345	280-240
47-53	1 7/8"-2 1/16"	304-270	200-180	135-120	610-540	239-210	340-300	239-210
54-60	2 1/8"-2 3/8"	265-230	175-160	115-105	530-480	205-185	295-265	205-185
61-70	2 13/32"-2 3/4"	234-204	155-135	103-90	470-410	182-160	260-230	182-160
71-80	2 51/64"- 3 5/32"	201-179	135-120	87-78	405-360	155-140	225-200	155-140
81-90	3 3/16"- 3 9/16"	177-159	117-105	77-70	355-320	137-125	195-175	137-125
91-100	3 19/32"- 3 15/16"	157-143	104-95	68-63	315-285	122-110	174-160	122-110

For longer tool life and better chip removal ability, different coatings are available for different materials.

HSS-E 	TiAIN 
<p>HSS-Co(Cobalt Hss) have higher red hardness permitting drilling of materials such as heat-resistant alloys and materials with hardness greater than 38HRC and high-alloyed chromium steel such as stainless and acidresistant steel</p>	<p>High performance coating with a high degree of hardness, high wear resistance and low heat conductivity. Good chemical stability and oxidation resistance and wear resistance. Suitable for processing heat resisting alloys, high-alloy steel, stainless steel, Titanium alloys and NiCo alloys.</p>

Operation Suggestion

- ◆ Speed Choice : Refer to recommended cutting speeds
- ◆ Feed recommendation: 0.06 - 0.18 mm / cycle. Feed is the key point for hole cutting. Different feed forms different shaped chips, which determine the performance of chips removal.
- ◆ During the beginning and termination of hole cutting, decrease feed 1/3 can reduce the damage of cutter.
- ◆ Sufficient coolant supply can increase the smoothness of holes and quantities of holes to be cut.
- ◆ Some materials like cast iron / copper occur lots of powder when cutting, Compressed air is recommended for cooling instead of coolant.
- ◆ Remove the chips twining around the cutter promptly, which is the better way for chip removal. Better chips removal is quite important.
- ◆ Withdraw the cutter when it still rotates after hole drilling.
- ◆ Clear the chips after hole drilling.
- ◆ For multi-layer work pieces, clear the chips after every layer drilling.
- ◆ When the wear width of the cutting edges reaches 0.4 mm, cutter should be replaced.

Safety Appliances



Safety Glasses



Safety Facial Mask



Safety Earflap



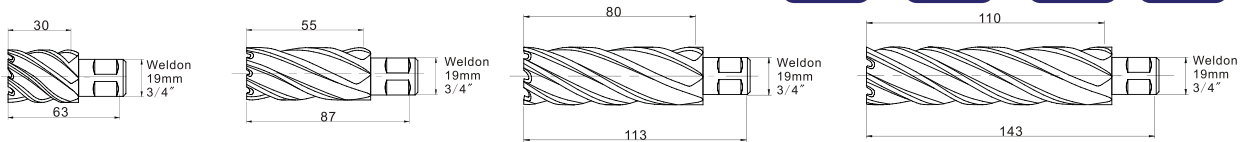
Safety Gloves

HSS Core Drill With Weldon Shank

- ◆ Made by solid high performance High Speed Steel
- ◆ Special Multi-Cut design help to remove chips and reduce cutting resistance.
- ◆ **Ø19.05mm(3/4") Weldon Shank**
- ◆ Suitable for most brands of magnet drilling machines and all kinds of drilling presses



Metric Size



Cutter Dia. d mm	Cuting Depth 25mm Order No.	Cuting Depth 50mm Order No.	Cuting Depth 75mm Order No.	Cuting Depth 100mm Order No.
12	14QA00001	14QA00051	N/A	N/A
13	14QA00002	14QA00052	N/A	N/A
14	14QA00003	14QA00053	N/A	N/A
15	14QA00004	14QA00054	N/A	N/A
16	14QA00005	14QA00055	N/A	N/A
17	14QA00006	14QA00056	N/A	N/A
18	14QA00007	14QA00057	14QA00107	14QA00157
19	14QA00008	14QA00058	14QA00108	14QA00158
20	14QA00009	14QA00059	14QA00109	14QA00159
21	14QA00010	14QA00060	14QA00110	14QA00160
22	14QA00011	14QA00061	14QA00111	14QA00161
23	14QA00012	14QA00062	14QA00112	14QA00162
24	14QA00013	14QA00063	14QA00113	14QA00163
25	14QA00014	14QA00064	14QA00114	14QA00164
26	14QA00015	14QA00065	14QA00115	14QA00165
27	14QA00016	14QA00066	14QA00116	14QA00166
28	14QA00017	14QA00067	14QA00117	14QA00167
29	14QA00018	14QA00068	14QA00118	14QA00168
30	14QA00019	14QA00069	14QA00119	14QA00169
31	14QA00020	14QA00070	14QA00120	14QA00170

Continued



Metric Size

Cutter Dia. d mm	Cuting Depth 25mm Order No.	Cuting Depth 50mm Order No.	Cuting Depth 75mm Order No.	Cuting Depth 100mm Order No.
32	14QA00021	14QA00071	14QA00121	14QA00171
33	14QA00022	14QA00072	14QA00122	14QA00172
34	14QA00023	14QA00073	14QA00123	14QA00173
35	14QA00024	14QA00074	14QA00124	14QA00174
36	14QA00025	14QA00075	14QA00125	14QA00175
37	14QA00026	14QA00076	14QA00126	14QA00176
38	14QA00027	14QA00077	14QA00127	14QA00177
39	14QA00028	14QA00078	14QA00128	14QA00178
40	14QA00029	14QA00079	14QA00129	14QA00179
41	14QA00030	14QA00080	14QA00130	14QA00180
42	14QA00031	14QA00081	14QA00131	14QA00181
43	14QA00032	14QA00082	14QA00132	14QA00182
44	14QA00033	14QA00083	14QA00133	14QA00183
45	14QA00034	14QA00084	14QA00134	14QA00184
46	14QA00035	14QA00085	14QA00135	14QA00185
47	14QA00036	14QA00086	14QA00136	14QA00186
48	14QA00037	14QA00087	14QA00137	14QA00187
49	14QA00038	14QA00088	14QA00138	14QA00188
50	14QA00039	14QA00089	14QA00139	14QA00189
51	14QA00040	14QA00090	14QA00140	14QA00190
52	14QA00041	14QA00091	14QA00141	14QA00191
53	14QA00042	14QA00092	14QA00142	14QA00192
54	14QA00043	14QA00093	14QA00143	14QA00193
55	14QA00044	14QA00094	14QA00144	14QA00194
56	14QA00045	14QA00095	14QA00145	14QA00195
57	14QA00046	14QA00096	14QA00146	14QA00196
58	14QA00047	14QA00097	14QA00147	14QA00197
59	14QA00048	14QA00098	14QA00148	14QA00198
60	14QA00049	14QA00099	14QA00149	14QA00199

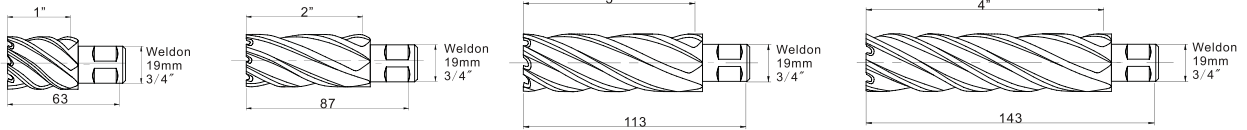
Center Pin	6.34 / 5.3 x 77 mm	6.34 / 5.3 x 102 mm	7.98 x 130 mm	7.98 x 160 mm
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Remarks: Bigger sizes and customized cutters are available

/ are available according to requirements

HSS Core Drill With Weldon Shank

Imperial Size

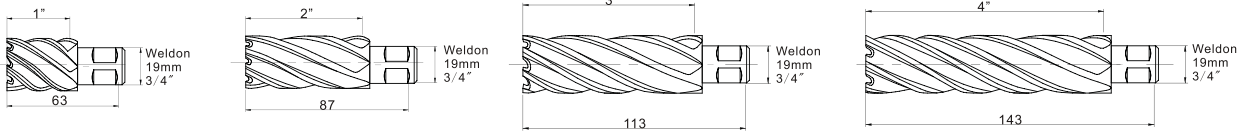


Cutter Dia.	Cutting Depth 1" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1/2"	14QA00201	14QA00232	N/A	N/A
9/16"	14QA00202	14QA00233	N/A	N/A
5/8"	14QA00203	14QA00234	N/A	N/A
11/16"	14QA00204	14QA00235	N/A	N/A
3/4"	14QA00205	14QA00236	14QA00267	14QA00298
13/16"	14QA00206	14QA00237	14QA00268	14QA00299
7/8"	14QA00207	14QA00238	14QA00269	14QA00300
15/16"	14QA00208	14QA00239	14QA00270	14QA00301
1"	14QA00209	14QA00240	14QA00271	14QA00302
1-1/16"	14QA00210	14QA00241	14QA00272	14QA00303
1-1/8"	14QA00211	14QA00242	14QA00273	14QA00304
1-3/16"	14QA00212	14QA00243	14QA00274	14QA00305
1-1/4"	14QA00213	14QA00244	14QA00275	14QA00306
1-5/16"	14QA00214	14QA00245	14QA00276	14QA00307
1-3/8"	14QA00215	14QA00246	14QA00277	14QA00308
1-7/16"	14QA00216	14QA00247	14QA00278	14QA00309
1-1/2"	14QA00217	14QA00248	14QA00279	14QA00310
1-9/16"	14QA00218	14QA00249	14QA00280	14QA00311
1-5/8"	14QA00219	14QA00250	14QA00281	14QA00312
1-11/16"	14QA00220	14QA00251	14QA00282	14QA00313

Continued

HSS Core Drill With Weldon Shank

Imperial Size



Cutter Dia. d inch	Cutting Depth 1" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1-3/4"	14QA00221	14QA00252	14QA00283	14QA00314
1-13/16"	14QA00222	14QA00253	14QA00284	14QA00315
1-7/8"	14QA00223	14QA00254	14QA00285	14QA00316
1-15/16"	14QA00224	14QA00255	14QA00286	14QA00317
2"	14QA00225	14QA00256	14QA00287	14QA00318
2-1/16"	14QA00226	14QA00257	14QA00288	14QA00319
2-1/8"	14QA00227	14QA00258	14QA00289	14QA00320
2-3/16"	14QA00228	14QA00259	14QA00290	14QA00321
2-1/4"	14QA00229	14QA00260	14QA00291	14QA00322
2-5/16"	14QA00230	14QA00261	14QA00292	14QA00323
2-3/8"	14QA00231	14QA00262	14QA00293	14QA00324

Center Pin	6.34 / 5.3 x 77 mm	6.34 / 5.3 x 102 mm	7.98 x 130 mm	7.98 x 160 mm
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Remarks: Bigger sizes and customized cutters are available

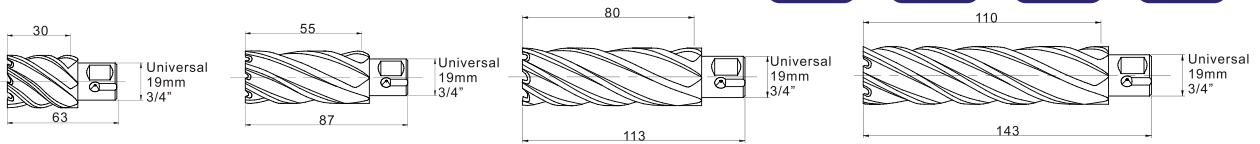
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HSS Core Drill With Universal Shank

- ◆ Made by solid high performance High Speed Steel
- ◆ Special Multi-Cut design help to remove chips and reduce cutting resistance.
- ◆ **Ø19.05mm(3/4") Universal Shank**
- ◆ Suitable for all kinds of magnetic drills and press

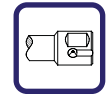


Metric Size



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12	14QB00001	14QB00051	N/A	N/A
13	14QB00002	14QB00052	N/A	N/A
14	14QB00003	14QB00053	N/A	N/A
15	14QB00004	14QB00054	N/A	N/A
16	14QB00005	14QB00055	N/A	N/A
17	14QB00006	14QB00056	N/A	N/A
18	14QB00007	14QB00057	14QB00107	14QB000157
19	14QB00008	14QB00058	14QB00108	14QB000158
20	14QB00009	14QB00059	14QB00109	14QB000159
21	14QB00010	14QB00060	14QB00110	14QB000160
22	14QB00011	14QB00061	14QB00111	14QB000161
23	14QB00012	14QB00062	14QB00112	14QB000162
24	14QB00013	14QB00063	14QB00113	14QB000163
25	14QB00014	14QB00064	14QB00114	14QB000164
26	14QB00015	14QB00065	14QB00115	14QB000165
27	14QB00016	14QB00066	14QB00116	14QB000166
28	14QB00017	14QB00067	14QB00117	14QB000167
29	14QB00018	14QB00068	14QB00118	14QB000168
30	14QB00019	14QB00069	14QB00119	14QB000169
31	14QB00020	14QB00070	14QB00120	14QB000170

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33	14QB00022	14QB00072	14QB00122	14QB000172
34	14QB00023	14QB00073	14QB00123	14QB000173
35	14QB00024	14QB00074	14QB00124	14QB000174
36	14QB00025	14QB00075	14QB00125	14QB000175
37	14QB00026	14QB00076	14QB00126	14QB000176
38	14QB00027	14QB00077	14QB00127	14QB000177
39	14QB00028	14QB00078	14QB00128	14QB000178
40	14QB00029	14QB00079	14QB00129	14QB000179
41	14QB00030	14QB00080	14QB00130	14QB000180
42	14QB00031	14QB00081	14QB00131	14QB000181
43	14QB00032	14QB00082	14QB00132	14QB000182
44	14QB00033	14QB00083	14QB00133	14QB000183
45	14QB00034	14QB00084	14QB00134	14QB000184
46	14QB00035	14QB00085	14QB00135	14QB000185
47	14QB00036	14QB00086	14QB00136	14QB000186
48	14QB00037	14QB00087	14QB00137	14QB000187
49	14QB00038	14QB00088	14QB00138	14QB000188
50	14QB00039	14QB00089	14QB00139	14QB000189
51	14QB00040	14QB00090	14QB00140	14QB000190
52	14QB00041	14QB00091	14QB00141	14QB000191
53	14QB00042	14QB00092	14QB00142	14QB000192
54	14QB00043	14QB00093	14QB00143	14QB000193
55	14QB00044	14QB00094	14QB00144	14QB000194
56	14QB00045	14QB00095	14QB00145	14QB000195
57	14QB00046	14QB00096	14QB00146	14QB000196
58	14QB00047	14QB00097	14QB00147	14QB000197
59	14QB00048	14QB00098	14QB00148	14QB000198
60	14QB00049	14QB00099	14QB00149	14QB000199

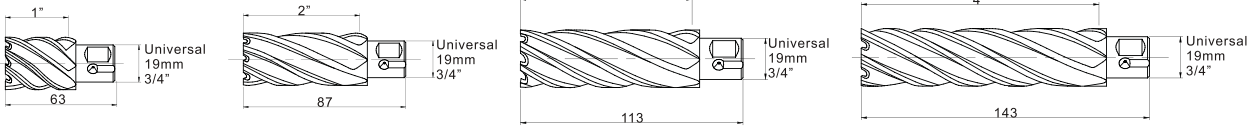
Center Pin	6.34 / 5.3 x 77 mm	6.34 / 5.3 x 102 mm	7.98 x 130 mm	7.98 x 160 mm
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Remarks: Bigger sizes and customized cutters are available

/ are available according to requirements

HSS Core Drill With Universal Shank

Imperial Size

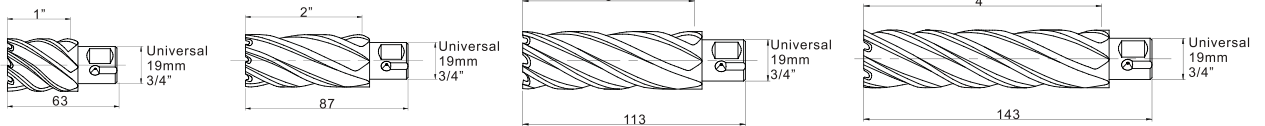


Cutter Dia. d inch	Cutting Depth 1" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1/2"	14QB00201	14QB00232	N/A	N/A
9/16"	14QB00202	14QB00233	N/A	N/A
5/8"	14QB00203	14QB00234	N/A	N/A
11/16"	14QB00204	14QB00235	N/A	N/A
3/4"	14QB00205	14QB00236	14QB00267	14QB00298
13/16"	14QB00206	14QB00237	14QB00268	14QB00299
7/8"	14QB00207	14QB00238	14QB00269	14QB00300
15/16"	14QB00208	14QB00239	14QB00270	14QB00301
1"	14QB00209	14QB00240	14QB00271	14QB00302
1-1/16"	14QB00210	14QB00241	14QB00272	14QB00303
1-1/8"	14QB00211	14QB00242	14QB00273	14QB00304
1-3/16"	14QB00212	14QB00243	14QB00274	14QB00305
1-1/4"	14QB00213	14QB00244	14QB00275	14QB00306
1-5/16"	14QB00214	14QB00245	14QB00276	14QB00307
1-3/8"	14QB00215	14QB00246	14QB00277	14QB00308
1-7/16"	14QB00216	14QB00247	14QB00278	14QB00309
1-1/2"	14QB00217	14QB00248	14QB00279	14QB00310
1-9/16"	14QB00218	14QB00249	14QB00280	14QB00311

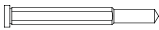
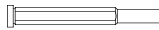


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HSS Core Drill With Universal Shank



Imperial Size



Cutter Dia. d inch	Cutting Depth 1" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1-5/8"	14QB00219	14QB00250	14QB00281	14QB00312
1-11/16"	14QB00220	14QB00251	14QB00282	14QB00313
1-3/4"	14QB00221	14QB00252	14QB00283	14QB00314
1-13/16"	14QB00222	14QB00253	14QB00284	14QB00315
1-7/8"	14QB00223	14QB00254	14QB00285	14QB00316
1-15/16"	14QB00224	14QB00255	14QB00286	14QB00317
2"	14QB00225	14QB00256	14QB00287	14QB00318
2-1/16"	14QB00226	14QB00257	14QB00288	14QB00319
2-1/8"	14QB00227	14QB00258	14QB00289	14QB00320
2-3/16"	14QB00228	14QB00259	14QB00290	14QB00321
2-1/4"	14QB00229	14QB00260	14QB00291	14QB00322
2-5/16"	14QB00230	14QB00261	14QB00292	14QB00323
2-3/8"	14QB00231	14QB00262	14QB00293	14QB00324

Center Pin	 6.34 / 5.3 x 77 mm	 6.34 / 5.3 x 102 mm	 7.98 x 130 mm	 7.98 x 160 mm
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Remarks: Bigger sizes and customized cutters are available

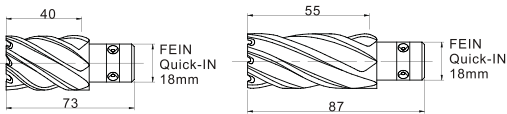
 /  are available according to requirements

HSS Core Drill With FEIN Quick-IN Shank

- ◆ Made by solid high performance High Speed Steel
- ◆ Special Multi-Cut design help to remove chips and reduce cutting resistance.
- ◆ **Ø18mm FEIN Quick-IN Shank**
- ◆ Special for FEIN magnetic drills



Metric Size



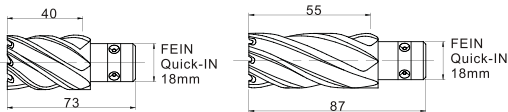
Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
12	14QC00051	14QC00101
13	14QC00052	14QC00102
14	14QC00053	14QC00103
15	14QC00054	14QC00104
16	14QC00055	14QC00105
17	14QC00056	14QC00106
18	14QC00057	14QC00107
19	14QC00058	14QC00108
20	14QC00059	14QC00109
21	14QC00060	14QC00110
22	14QC00061	14QC00111
23	14QC00062	14QC00112
24	14QC00063	14QC00113
25	14QC00064	14QC00114
26	14QC00065	14QC00115

Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
27	14QC00066	14QC00116
28	14QC00067	14QC00117
29	14QC00068	14QC00118
30	14QC00069	14QC00119
31	14QC00070	14QC00120
32	14QC00071	14QC00121
33	14QC00072	14QC00122
34	14QC00073	14QC00123
35	14QC00074	14QC00124
36	14QC00075	14QC00125
37	14QC00076	14QC00126
38	14QC00077	14QC00127
39	14QC00078	14QC00128
40	14QC00079	14QC00129
41	14QC00080	14QC00130

Continued

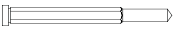
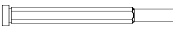
HSS Core Drill With FEIN Quick-IN Shank

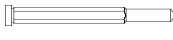
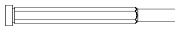
Metric Size





Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
42	14QC00081	14QC00131
43	14QC00082	14QC00132
44	14QC00083	14QC00133
45	14QC00084	14QC00134
46	14QC00085	14QC00135
47	14QC00086	14QC00136
48	14QC00087	14QC00137
49	14QC00088	14QC00138
50	14QC00089	14QC00139
51	14QC00090	14QC00140

Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
52	14QC00091	14QC00141
53	14QC00092	14QC00142
54	14QC00093	14QC00143
55	14QC00094	14QC00144
56	14QC00095	14QC00145
57	14QC00096	14QC00146
58	14QC00097	14QC00147
59	14QC00098	14QC00148
60	14QC00099	14QC00149

Center Pin	 6.34 / 5.3 x 90 mm	 6.34 / 5.3 x 102 mm
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Center Pin	 6.34 / 5.3 x 90 mm	 6.34 / 5.3 x 102 mm
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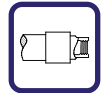
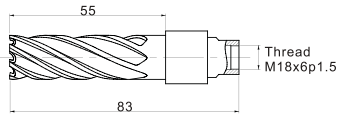
 /  are available according to requirements

Hss Core Drill With Thread Shank



- ◆ Made by solid high performance High Speed Steel
- ◆ Special Multi-Cut design help to remove chips and reduce cutting resistance.
- ◆ **M18 x 6 p1.5 mm Thread Shank**
- ◆ Specially for FEIN and HITACHI magnetic drills.



Metric Size



Cutter Dia. d mm	Cutting Depth 50mm Order No.	Cutter Dia. d mm	Cutting Depth 50mm Order No.
12	14QD00001	32	14QD00021
13	14QD00002	33	14QD00022
14	14QD00003	34	14QD00023
15	14QD00004	35	14QD00024
16	14QD00005	36	14QD00025
17	14QD00006	37	14QD00026
18	14QD00007	38	14QD00027
19	14QD00008	39	14QD00028
20	14QD00009	40	14QD00029
21	14QD00010	41	14QD00030
22	14QD00011	42	14QD00031
23	14QD00012	43	14QD00032
24	14QD00013	44	14QD00033
25	14QD00014	45	14QD00034
26	14QD00015	46	14QD00035
27	14QD00016	47	14QD00036
28	14QD00017	48	14QD00037
29	14QD00018	49	14QD00038
30	14QD00019	50	14QD00039
31	14QD00020		





 /  are available according to requirements



6-pcs HSS Core Drill Kit In Metal Box

In Metal Box

- ◆ Group of 6 pcs common size HSS core drill for general applications
- ◆ Metal Box with stand packing protects cutting edges and convenient for picking and storage



Contents					
Cutter Dia. d mm	Cutting Depth mm	Weldon Shank Order No.	Universal Shank Order No.	FEIN Quick-IN Shank Order No.	Thread Shank Order No.
14	25				
16	25				
18	25				
20	25	27AH00001	27AH00002	N/A	N/A
22	25				
24	25				
Pilot pin: 6.34 / 5.3 x 90 mm					

 /  are available according to requirements




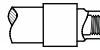
Special kit contents can be modified.



6-pcs HSS Core Drill Kit In Plastic Box

In Plastic Box

- ◆ Group of 6 pcs common size HSS coer drill for general applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage



Contents					
Cutter Dia. d mm	Cutting Depth mm	Weldon Shank Order No.	Universal Shank Order No.	FEIN Quick-IN Shank Order No.	Thread Shank Order No.
14	25				
16	25				
18	25				
20	25	27AH00003	27AH00004	N/A	N/A
22	25				
24	25				
Pilot pin: 6.34 / 5.3 x 77 mm					

 /  are available according to requirements





Special kit contents can be modified.



6-pcs HSS Core Drill Kit In Plastic Box

In Plastic Box

- ◆ Group of 6 pcs common size HSS coer drill for general applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage



Contents					
Cutter Dia. d mm	Cutting Depth mm	Weldon Shank Order No.	Universal Shank Order No.	FEIN Quick-IN Shank Order No.	Thread Shank Order No.
14	50				
16	50				
18	50				
20	50	27AH00005	27AH00006	27AH00007	27AH00008
22	50				
24	50				
Pilot pin: 6.34 / 5.3 x 102 mm					

 /  are available according to requirements

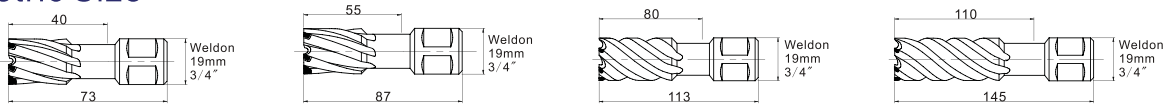
Special kit contents can be modified.

T.C.T. Core Drill With Weldon Shank

- ◆ Carbide tipped cutting edge welded to the tough alloy steel body
- ◆ Special Multi-Cut design (3-ply) help to remove chips and reduce cutting resistance.
- ◆ High cutting speed, High wear resistance and considerably longer tool life
- ◆ Can achieve good drilling performance on complicated (harder) materials.
- ◆ **Ø19.05mm (3/4") Weldon Shank**
- ◆ Suitable for most brands of magnet drilling machines and all kinds of drilling presses



Metric Size



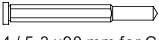
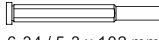



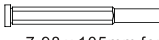
Cutter Dia. d mm	Cuting Depth 35mm Order No.	Cuting Depth 50mm Order No.	Cuting Depth 75mm Order No.	Cuting Depth 100mm Order No.
12	14QE00001	14QE00051	N/A	N/A
13	14QE00002	14QE00052	N/A	N/A
14	14QE00003	14QE00053	N/A	N/A
15	14QE00004	14QE00054	N/A	N/A
16	14QE00005	14QE00055	N/A	N/A
17	14QE00006	14QE00056	N/A	N/A
18	14QE00007	14QE00057	14QE00107	14QE00157
19	14QE00008	14QE00058	14QE00108	14QE00158
20	14QE00009	14QE00059	14QE00109	14QE00159
21	14QE00010	14QE00060	14QE00110	14QE00160
22	14QE00011	14QE00061	14QE00111	14QE00161
23	14QE00012	14QE00062	14QE00112	14QE00162
24	14QE00013	14QE00063	14QE00113	14QE00163
25	14QE00014	14QE00064	14QE00114	14QE00164
26	14QE00015	14QE00065	14QE00115	14QE00165
27	14QE00016	14QE00066	14QE00116	14QE00166
28	14QE00017	14QE00067	14QE00117	14QE00167
29	14QE00018	14QE00068	14QE00118	14QE00168
30	14QE00019	14QE00069	14QE00119	14QE00169
31	14QE00020	14QE00070	14QE00120	14QE00170

Continued



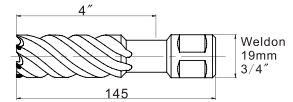
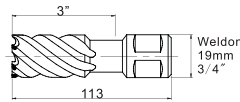
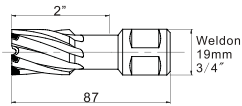
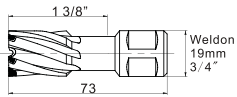
Metric Size

Cutter Dia. d mm	Cuting Depth 35mm Order No.	Cuting Depth 50mm Order No.	Cuting Depth 75mm Order No.	Cuting Depth 100mm Order No.
32	14QE00021	14QE00071	14QE00121	14QE00171
33	14QE00022	14QE00072	14QE00122	14QE00172
34	14QE00023	14QE00073	14QE00123	14QE00173
35	14QE00024	14QE00074	14QE00124	14QE00174
36	14QE00025	14QE00075	14QE00125	14QE00175
37	14QE00026	14QE00076	14QE00126	14QE00176
38	14QE00027	14QE00077	14QE00127	14QE00177
39	14QE00028	14QE00078	14QE00128	14QE00178
40	14QE00029	14QE00079	14QE00129	14QE00179
41	14QE00030	14QE00080	14QE00130	14QE00180
42	14QE00031	14QE00081	14QE00131	14QE00181
43	14QE00032	14QE00082	14QE00132	14QE00182
44	14QE00033	14QE00083	14QE00133	14QE00183
45	14QE00034	14QE00084	14QE00134	14QE00184
46	14QE00035	14QE00085	14QE00135	14QE00185
47	14QE00036	14QE00086	14QE00136	14QE00186
48	14QE00037	14QE00087	14QE00137	14QE00187
49	14QE00038	14QE00088	14QE00138	14QE00188
50	14QE00039	14QE00089	14QE00139	14QE00189
51	14QE00040	14QE00090	14QE00140	14QE00190
52	14QE00041	14QE00091	14QE00141	14QE00191
53	14QE00042	14QE00092	14QE00142	14QE00192
54	14QE00043	14QE00093	14QE00143	14QE00193
55	14QE00044	14QE00094	14QE00144	14QE00194
56	14QE00045	14QE00095	14QE00145	14QE00195
57	14QE00046	14QE00096	14QE00146	14QE00196
58	14QE00047	14QE00097	14QE00147	14QE00197
59	14QE00048	14QE00098	14QE00148	14QE00198
60	14QE00049	14QE00099	14QE00149	14QE00199

Center Pin	 6.34 / 5.3 x 90 mm for Cutter Dia. 12-17mm	 6.34 / 5.3 x 102 mm for cutter dia. 12-17mm	 7.98 x 130 mm	 7.98 x 160 mm
	 7.98 x 90 mm for Cutter Dia. 18-60mm	 7.98 x 105mm for Cutter Dia. 18-60mm		

T.C.T. Core Drill With Weldon Shank

Imperial Size

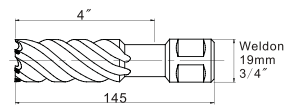
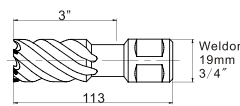
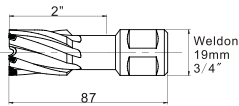
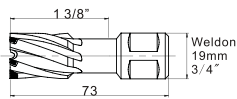


Cutter Dia. d inch	Cutting Depth 1 3/8" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1/2"	14QE00201	14QE00232	N/A	N/A
9/16"	14QE00202	14QE00233	N/A	N/A
5/8"	14QE00203	14QE00234	N/A	N/A
11/16"	14QE00204	14QE00235	N/A	N/A
3/4"	14QE00205	14QE00236	14QE00267	14QE00298
13/16"	14QE00206	14QE00237	14QE00268	14QE00299
7/8"	14QE00207	14QE00238	14QE00269	14QE00300
15/16"	14QE00208	14QE00239	14QE00270	14QE00301
1"	14QE00209	14QE00240	14QE00271	14QE00302
1-1/16"	14QE00210	14QE00241	14QE00272	14QE00303
1-1/8"	14QE00211	14QE00242	14QE00273	14QE00304
1-3/16"	14QE00212	14QE00243	14QE00274	14QE00305
1-1/4"	14QE00213	14QE00244	14QE00275	14QE00306
1-5/16"	14QE00214	14QE00245	14QE00276	14QE00307
1-3/8"	14QE00215	14QE00246	14QE00277	14QE00308
1-7/16"	14QE00216	14QE00247	14QE00278	14QE00309
1-1/2"	14QE00217	14QE00248	14QE00279	14QE00310
1-9/16"	14QE00218	14QE00249	14QE00280	14QE00311
1-5/8"	14QE00219	14QE00250	14QE00281	14QE00312

Continued

T.C.T. Core Drill With Weldon Shank

Imperial Size



Cutter Dia. d inch	Cutting Depth 1 3/8" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1-11/16"	14QE00220	14QE00251	14QE00282	14QE00313
1-3/4"	14QE00221	14QE00252	14QE00283	14QE00314
1-13/16"	14QE00222	14QE00253	14QE00284	14QE00315
1-7/8"	14QE00223	14QE00254	14QE00285	14QE00316
1-15/16"	14QE00224	14QE00255	14QE00286	14QE00317
2"	14QE00225	14QE00256	14QE00287	14QE00318
2-1/16"	14QE00226	14QE00257	14QE00288	14QE00319
2-1/8"	14QE00227	14QE00258	14QE00289	14QE00320
2-3/16"	14QE00228	14QE00259	14QE00290	14QE00321
2-1/4"	14QE00229	14QE00260	14QE00291	14QE00322
2-5/16"	14QE00230	14QE00261	14QE00292	14QE00323
2-3/8"	14QE00231	14QE00262	14QE00293	14QE00324

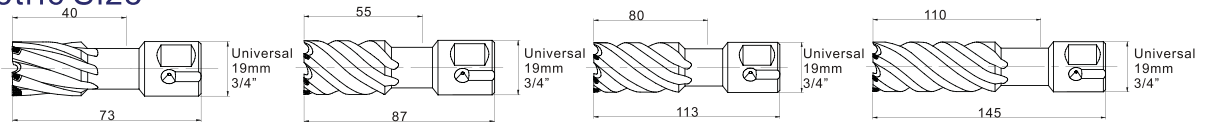
Center Pin	6.34 / 5.3 x 90 mm for Cutter Dia. 12-17mm	6.34 / 5.3 x 102 mm for cutter dia. 12-17mm	7.98 x 130 mm	7.98 x 160 mm
	7.98 x 90 mm for Cutter Dia. 18-60mm	7.98 x 105mm for Cutter Dia. 18-60mm		

T.C.T. Core Drill With Universal Shank

- ◆ Carbide tipped cutting edge welded to the tough alloy steel body
- ◆ Special Multi-Cut design (3-ply) help to remove chips and reduce cutting resistance.
- ◆ High cutting speed, High wear resistance and considerably longer tool life
- ◆ Can achieve good drilling performance on complicated (harder) materials.
- ◆ **Ø19.05mm(3/4") Universal Shank**
- ◆ Suitable for all kinds of magnetic drills and press , machines and all kinds of drilling presses



Metric Size



Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.	Cutting Depth 75mm Order No.	Cutting Depth 100mm Order No.
12	14QF00001	14QF00051	N/A	N/A
13	14QF00002	14QF00052	N/A	N/A
14	14QF00003	14QF00053	N/A	N/A
15	14QF00004	14QF00054	N/A	N/A
16	14QF00005	14QF00055	N/A	N/A
17	14QF00006	14QF00056	N/A	N/A
18	14QF00007	14QF00057	14QF00107	14QF00157
19	14QF00008	14QF00058	14QF00108	14QF00158
20	14QF00009	14QF00059	14QF00109	14QF00159
21	14QF00010	14QF00060	14QF00110	14QF00160
22	14QF00011	14QF00061	14QF00111	14QF00161
23	14QF00012	14QF00062	14QF00112	14QF00162
24	14QF00013	14QF00063	14QF00113	14QF00163
25	14QF00014	14QF00064	14QF00114	14QF00164
26	14QF00015	14QF00065	14QF00115	14QF00165
27	14QF00016	14QF00066	14QF00116	14QF00166
28	14QF00017	14QF00067	14QF00117	14QF00167
29	14QF00018	14QF00068	14QF00118	14QF00168
30	14QF00019	14QF00069	14QF00119	14QF00169
31	14QF00020	14QF00070	14QF00120	14QF00170

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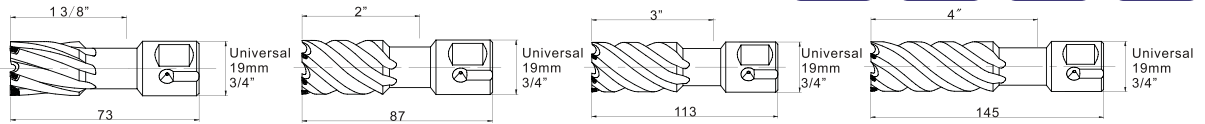
Metric Size

Cutter Dia. d mm	Cuting Depth 35mm Order No.	Cuting Depth 50mm Order No.	Cuting Depth 75mm Order No.	Cuting Depth 100mm Order No.
32	14QF00021	14QF00071	14QF00121	14QF00171
33	14QF00022	14QF00072	14QF00122	14QF00172
34	14QF00023	14QF00073	14QF00123	14QF00173
35	14QF00024	14QF00074	14QF00124	14QF00174
36	14QF00025	14QF00075	14QF00125	14QF00175
37	14QF00026	14QF00076	14QF00126	14QF00176
38	14QF00027	14QF00077	14QF00127	14QF00177
39	14QF00028	14QF00078	14QF00128	14QF00178
40	14QF00029	14QF00079	14QF00129	14QF00179
41	14QF00030	14QF00080	14QF00130	14QF00180
42	14QF00031	14QF00081	14QF00131	14QF00181
43	14QF00032	14QF00082	14QF00132	14QF00182
44	14QF00033	14QF00083	14QF00133	14QF00183
45	14QF00034	14QF00084	14QF00134	14QF00184
46	14QF00035	14QF00085	14QF00135	14QF00185
47	14QF00036	14QF00086	14QF00136	14QF00186
48	14QF00037	14QF00087	14QF00137	14QF00187
49	14QF00038	14QF00088	14QF00138	14QF00188
50	14QF00039	14QF00089	14QF00139	14QF00189
51	14QF00040	14QF00090	14QF00140	14QF00190
52	14QF00041	14QF00091	14QF00141	14QF00191
53	14QF00042	14QF00092	14QF00142	14QF00192
54	14QF00043	14QF00093	14QF00143	14QF00193
55	14QF00044	14QF00094	14QF00144	14QF00194
56	14QF00045	14QF00095	14QF00145	14QF00195
57	14QF00046	14QF00096	14QF00146	14QF00196
58	14QF00047	14QF00097	14QF00147	14QF00197
59	14QF00048	14QF00098	14QF00148	14QF00198
60	14QF00049	14QF00099	14QF00149	14QF00199

Center Pin	 6.34 / 5.3 x 90 mm for Cutter Dia.12-17mm	 6.34 / 5.3 x 102 mm for cutter dia.12-17mm	 7.98 x 130 mm	 7.98 x 160 mm
	 7.98 x 90 mm for Cutter Dia.18-60mm	 7.98 x 105mm for Cutter Dia.18-60mm		

T.C.T. Core Drill With Universal Shank

Imperial Size

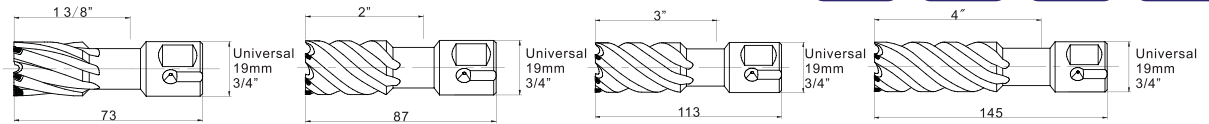


Cutter Dia. d inch	Cutting Depth 1 3/8" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1/2"	14QF00201	14QF00232	N/A	N/A
9/16"	14QF00202	14QF00233	N/A	N/A
5/8"	14QF00203	14QF00234	N/A	N/A
11/16"	14QF00204	14QF00235	N/A	N/A
3/4"	14QF00205	14QF00236	14QF00267	14QF00298
13/16"	14QF00206	14QF00237	14QF00268	14QF00299
7/8"	14QF00207	14QF00238	14QF00269	14QF00300
15/16"	14QF00208	14QF00239	14QF00270	14QF00301
1"	14QF00209	14QF00240	14QF00271	14QF00302
1-1/16"	14QF00210	14QF00241	14QF00272	14QF00303
1-1/8"	14QF00211	14QF00242	14QF00273	14QF00304
1-3/16"	14QF00212	14QF00243	14QF00274	14QF00305
1-1/4"	14QF00213	14QF00244	14QF00275	14QF00306
1-5/16"	14QF00214	14QF00245	14QF00276	14QF00307
1-3/8"	14QF00215	14QF00246	14QF00277	14QF00308
1-7/16"	14QF00216	14QF00247	14QF00278	14QF00309
1-1/2"	14QF00217	14QF00248	14QF00279	14QF00310
1-9/16"	14QF00218	14QF00249	14QF00280	14QF00311
1-5/8"	14QF00219	14QF00250	14QF00281	14QF00312

Continued

T.C.T. Core Drill With Universal Shank

Imperial Size



Cutter Dia. d inch	Cutting Depth 1 3/8" inch Order No.	Cutting Depth 2" inch Order No.	Cutting Depth 3" inch Order No.	Cutting Depth 4" inch Order No.
1-11/16"	14QF00220	14QF00251	14QF00282	14QF00313
1-3/4"	14QF00221	14QF00252	14QF00283	14QF00314
1-13/16"	14QF00222	14QF00253	14QF00284	14QF00315
1-7/8"	14QF00223	14QF00254	14QF00285	14QF00316
1-15/16"	14QF00224	14QF00255	14QF00286	14QF00317
2"	14QF00225	14QF00256	14QF00287	14QF00318
2-1/16"	14QF00226	14QF00257	14QF00288	14QF00319
2-1/8"	14QF00227	14QF00258	14QF00289	14QF00320
2-3/16"	14QF00228	14QF00259	14QF00290	14QF00321
2-1/4"	14QF00229	14QF00260	14QF00291	14QF00322
2-5/16"	14QF00230	14QF00261	14QF00292	14QF00323
2-3/8"	14QF00231	14QF00262	14QF00293	14QF00324

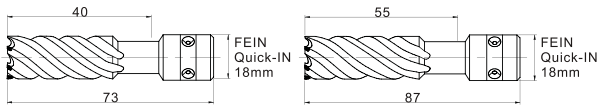
Center Pin	6.34 / 5.3 x 90 mm for Cutter Dia. 12-17mm	6.34 / 5.3 x 102 mm for cutter dia. 12-17mm	7.98 x 130 mm	7.98 x 160 mm
	7.98 x 90 mm for Cutter Dia. 18-60mm	7.98 x 105mm for Cutter Dia. 18-60mm		

T.C.T. Core Drill With FEIN Quick-IN Shank

- ◆ Carbide tipped cutting edge welded to the tough alloy steel body
- ◆ Special Multi-Cut design (3-ply) help to remove chips and reduce cutting resistance.
- ◆ High cutting speed, High wear resistance and considerably longer tool life
- ◆ Can achieve good drilling performance on complicated (harder) materials.
- ◆ **Ø18mm FEIN Quick-IN shank**
- ◆ Special for FEIN magnetic drills



Metric Size



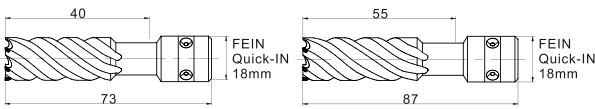
Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
12	14QG00001	14QG00050
13	14QG00002	14QG00051
14	14QG00003	14QG00052
15	14QG00004	14QG00053
16	14QG00005	14QG00054
17	14QG00006	14QG00055
18	14QG00007	14QG00056
19	14QG00008	14QG00057
20	14QG00009	14QG00058
21	14QG00010	14QG00059
22	14QG00011	14QG00060
23	14QG00012	14QG00061
24	14QG00013	14QG00062

Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
25	14QG00014	14QG00063
26	14QG00015	14QG00064
27	14QG00016	14QG00065
28	14QG00017	14QG00066
29	14QG00018	14QG00067
30	14QG00019	14QG00068
31	14QG00020	14QG00069
32	14QG00021	14QG00070
33	14QG00022	14QG00071
34	14QG00023	14QG00072
35	14QG00024	14QG00073
36	14QG00025	14QG00074
37	14QG00026	14QG00075

Continued





T.C.T. Core Drill With FEIN Quick-IN Shank





Metric Size



Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
38	14QG00027	14QG00076
39	14QG00028	14QG00077
40	14QG00029	14QG00078
41	14QG00030	14QG00079
42	14QG00031	14QG00080
43	14QG00032	14QG00081
44	14QG00033	14QG00082
45	14QG00034	14QG00083
46	14QG00035	14QG00084
47	14QG00036	14QG00085
48	14QG00037	14QG00086

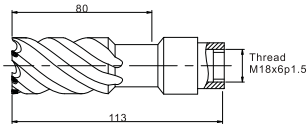
Cutter Dia. d mm	Cutting Depth 35mm Order No.	Cutting Depth 50mm Order No.
49	14QG00038	14QG00087
50	14QG00039	14QG00088
51	14QG00040	14QG00089
52	14QG00041	14QG00090
53	14QG00042	14QG00091
54	14QG00043	14QG00092
55	14QG00044	14QG00093
56	14QG00045	14QG00094
57	14QG00046	14QG00095
58	14QG00047	14QG00096
59	14QG00048	14QG00097
60	14QG00049	14QG00098

Center Pin		
	6.34 / 5.3 x 90 mm for Cutter Dia. 12-17mm	6.34 / 5.3 x 102 mm for cutter dia. 12-17mm
Center Pin		
	7.98 x 90 mm for Cutter Dia. 18-60mm	7.98 x 105mm for Cutter Dia. 18-60mm

Center Pin		
	6.34 / 5.3 x 90 mm for Cutter Dia. 12-17mm	6.34 / 5.3 x 102 mm for cutter dia. 12-17mm
Center Pin		
	7.98 x 90 mm for Cutter Dia. 18-60mm	7.98 x 105mm for Cutter Dia. 18-60mm

T.C.T. Core Drill With Thread Shank Metric Size

- ◆ Carbide tipped cutting edge welded to the tough alloy steel body
- ◆ Special Multi-Cut design (3-ply) help to remove chips and reduce cutting resistance.
- ◆ High cutting speed, High wear resistance and considerably longer tool life
- ◆ Can achieve good drilling performance on complicated (harder) materials.
- ◆ **M18 x 6 P1.5 mm Thread Shank**
- ◆ Specially for FEIN and HITACHI Magnetic Drills.

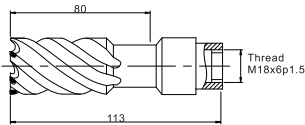


Cutter Dia. d mm	Cutting Depth 50mm Order No.
12	14QH00138
13	14QH00139
14	14QH00140
15	14QH00141
16	14QH00142
17	14QH00143
18	14QH00144
19	14QH00145
20	14QH00146
21	14QH00147
22	14QH00148
23	14QH00149
24	14QH00150

Cutter Dia. d mm	Cutting Depth 50mm Order No.
25	14QH00151
26	14QH00152
27	14QH00153
28	14QH00154
29	14QH00155
30	14QH00156
31	14QH00157
32	14QH00158
33	14QH00159
34	14QH00160
35	14QH00161
36	14QH00162
37	14QH00163



Continued



T.C.T. Core Drill With Thread Shank



Cutter Dia. d mm	Cutting Depth 50mm Order No.
38	14QH00164
39	14QH00165
40	14QH00166
41	14QH00167
42	14QH00168
43	14QH00169
44	14QH00170
45	14QH00171
46	14QH00172
47	14QH00173
48	14QH00174
49	14QH00175

Cutter Dia. d mm	Cutting Depth 50mm Order No.
50	14QH00176
51	14QH00177
52	14QH00178
53	14QH00179
54	14QH00180
55	14QH00181
56	14QH00182
57	14QH00183
58	14QH00184
59	14QH00185
60	14QH00186

Center Pin	 6.34 / 5.3 x 102 mm for Cutter Dia.12-17mm
	 7.98 x 105mm for Cutter Dia.18-60mm




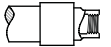
Center Pin	 6.34 / 5.3 x 102 mm for Cutter Dia.12-17mm
	 7.98 x 105mm for Cutter Dia.18-60mm

6 pcs T.C.T. Core Drill Kit In Plastic Box

In Plastic Box

- ◆ Group of 6 pcs common size T.C.T. core drill for general applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage



Contents					
Cutter Dia. d mm	Cutting Depth mm	Weldon Shank Order No.	Universal Shank Order No.	FEIN Quick-IN Shank Order No.	Thread Shank Order No.
14	35				
16	35				
18	35				
20	35				
22	35	27AH00009	27AH00010	27AH00011	N/A
24	35				
Pilot pin: 6.34 / 5.3 x 90 mm					
7.98x105 mm					



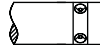

Special kit contents can be modified.

6 pcs T.C.T. Core Drill Kit In Plastic Box

In Plastic Box

- ◆ Group of 6 pcs common size T. C. T. core drill for general applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage

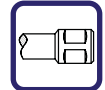
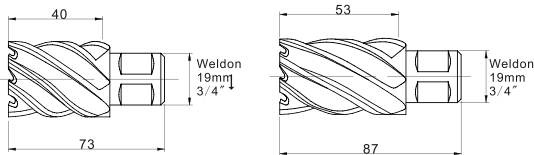


Contents					
Cutter Dia. d mm	Cutting Depth mm	Weldon Shank Order No.	Universal Shank Order No.	FEIN Quick-IN Shank Order No.	Thread Shank Order No.
14	50				
16	50				
18	50				
20	50				
22	50	27AH00012	27AH00013	27AH00014	27AH00015
24	50				
Pilot pin: 6.34 / 5.3 x 105 mm					
7.98x105mm					

Special kit contents can be modified.

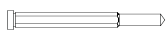

HSS Rail Cutter With Weldon Shank Metric Size

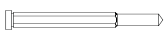

- ◆ Made by super tough High Speed Steel, Super endurance and impact resistance
- ◆ Special cutting geometry design guarantee smooth cutting, heavy duty chip remove and reduce cutting resistance.
- ◆ $\varnothing 19.05\text{mm}$ (3/4") Weldon Shank suitable for all rail drilling machines
- ◆ Applicable to hole cutting on rail track



Cutter Dia. d mm	Cutting Depth 30mm Order No.	Cutting Depth 50mm Order No.
18	14QI00001	14QI00020
19	14QI00002	14QI00021
20	14QI00003	14QI00022
21	14QI00004	14QI00023
22	14QI00005	14QI00024
23	14QI00006	14QI00025
24	14QI00007	14QI00026
25	14QI00008	14QI00027
26	14QI00009	14QI00028
27	14QI00010	14QI00029

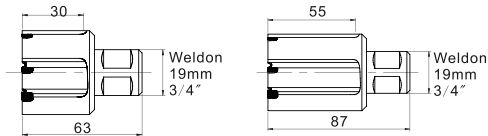
Cutter Dia. d mm	Cutting Depth 30mm Order No.	Cutting Depth 50mm Order No.
28	14QI00011	14QI00030
29	14QI00012	14QI00031
30	14QI00013	14QI00032
31	14QI00014	14QI00033
32	14QI00015	14QI00034
33	14QI00016	14QI00035
34	14QI00017	14QI00036
35	14QI00018	14QI00037
36	14QI00019	14QI00038

Center Pin	7.98 x 77 mm	7.98 x 103mm
		

Center Pin	7.98 x 77 mm	7.98 x 103mm
		



T.C.T. Rail Cutter With Weldon Shank
Metric Size



- ◆ Micron grain Tunsten Carbide Tipped cutting edge welded to the tough alloy steel body
- ◆ Special cutting geometry design guarantee smooth cutting, heavy duty chip remove and reduce cutting resistance.
- ◆ **Ø19.05mm(3/4") Weldon shank suitable for all rail drilling machines**
- ◆ Applicable to hole cutting on hardened rail



Cutter Dia. d mm	Cutting Depth 30mm Order No.	Cutting Depth 50mm Order No.
18	14QJ00001	14QJ00020
19	14QJ00002	14QJ00021
20	14QJ00003	14QJ00022
21	14QJ00004	14QJ00023
22	14QJ00005	14QJ00024
23	14QJ00006	14QJ00025
24	14QJ00007	14QJ00026
25	14QJ00008	14QJ00027
26	14QJ00009	14QJ00028
27	14QJ00010	14QJ00029

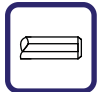
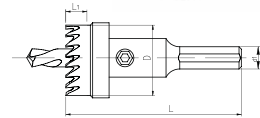
Cutter Dia. d mm	Cutting Depth 30mm Order No.	Cutting Depth 50mm Order No.
28	14QJ00011	14QJ00030
29	14QJ00012	14QJ00031
30	14QJ00013	14QJ00032
31	14QJ00014	14QJ00033
32	14QJ00015	14QJ00034
33	14QJ00016	14QJ00035
34	14QJ00017	14QJ00036
35	14QJ00018	14QJ00037
36	14QJ00019	14QJ00038

Center Pin	 7.98 x 77 mm	 7.98 x 103mm
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Center Pin	 7.98 x 77 mm	 7.98 x 103mm
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H.S.S. Hole Cutter for Thin Plate Materials

- ◆ Hole cutter made by high performance High Speed Steel
- ◆ Precision ground ensure better and sharper cutting edges
- ◆ High positive cut, Smooth low-heat running
- ◆ Ideal for steel (up to 800N/mm²), non-ferrous and light metals and reinforced fabrics
- ◆ Work with portable electric or pneumatic tools, vertical drill machines etc.
- ◆ **Effective length: 7mm**
- ◆ **Equipped with Ø6mm HSS Pilot Drill and Ejector Spring for piloting and removing the cutted piece.**



Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
14	9/16"	10	6	14PC00309
16	5/8"	10	6	14PC00310
17	11/16"	10	6	14PC00311
19	3/4"	10	6	14PC00312
20	25/32"	10	6	14PC00313
21	13/16"	10	6	14PC00314
22	7/8"	10	6	14PC00315
24	15/16"	10	6	14PC00316
25	1"	10	6	14PC00317
27	1-1/16"	10	6	14PC00318
29	1-1/8"	10	6	14PC00319
30	1-3/16"	10	6	14PC00320
32	1-1/4"	10	6	14PC00321
33	1-5/16"	10	6	14PC00322
35	1-3/8"	10	6	14PC00323
37	1-7/16"	10	6	14PC00324
38	1-1/2"	10	6	14PC00325
40	1-9/16"	10	6	14PC00326
41	1-5/8"	10	6	14PC00327
43	1-11/16"	10	6	14PC00328
44	1-3/4"	10	6	14PC00329

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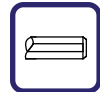
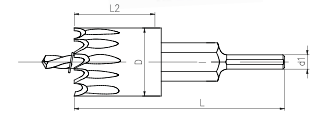


Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
46	1-13/16"	10	6	14PC00330
48	1-7/8"	10	6	14PC00331
51	2"	10	6	14PC00332
52	2-1/16"	10	6	14PC00333
54	2-1/8"	10	6	14PC00334
57	2-1/4"	10	6	14PC00335
59	2-5/16"	10	6	14PC00336
60	2-3/8"	10	6	14PC00337
64	2-1/2"	13	6	14PC00338
65	2-9/16"	13	6	14PC00339
67	2-5/8"	13	6	14PC00340
68	2-11/16"	13	6	14PC00341
70	2-3/4"	13	6	14PC00342
73	2-7/8"	13	6	14PC00343
76	3"	13	6	14PC00344
79	3-1/8"	13	6	14PC00345
83	3-1/4"	13	6	14PC00346
86	3-3/8"	13	6	14PC00347
89	3-1/2"	13	6	14PC00348
92	3-5/8"	13	6	14PC00349
95	3-3/4"	13	6	14PC00350
98	3-7/8"	13	6	14PC00351
102	4"	13	6	14PC00352
105	4-1/8"	13	6	14PC00353
108	4-1/4"	13	6	14PC00354
111	4-3/8"	13	6	14PC00355
114	4-1/2"	13	6	14PC00356
121	4-3/4"	13	6	14PC00357
127	5"	13	6	14PC00358
133	5-1/4"	13	6	14PC00359
140	5-1/2"	13	6	14PC00360
146	5-3/4"	13	6	14PC00361
152	6"	13	6	14PC00362

HSS / TiN / TiAIN are available according to requirements

H.S.S. Hole Cutter for Thin Plate Materials, Euro Style

- ◆ Hole cutter made by high performance High Speed Steel
- ◆ Precision ground ensure better and sharper cutting edges
- ◆ High positive cut, Smooth low-heat running Ideal for steel (up to 800N/mm²), non-ferrous and light metals and reinforced fabrics
- ◆ Work with portable electric or pneumatic tools, vertical drill machines etc.
- ◆ **Effective length: 11mm**
- ◆ **Equipped with Ø6mm HSS Pilot Drill and Ejector Spring for piloting and removing the cutted piece.**



Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
14	9/16"	10	6	14PC00078
16	5/8"	10	6	14PC00079
17	11/16"	10	6	14PC00080
19	3/4"	10	6	14PC00081
20	25/32"	10	6	14PC00082
21	13/16"	10	6	14PC00083
22	7/8"	10	6	14PC00084
24	15/16"	10	6	14PC00085
25	1"	10	6	14PC00086
27	1-1/16"	10	6	14PC00087
29	1-1/8"	10	6	14PC00088
30	1-3/16"	10	6	14PC00089
32	1-1/4"	10	6	14PC00090
33	1-5/16"	10	6	14PC00091
35	1-3/8"	10	6	14PC00092
37	1-7/16"	10	6	14PC00093
38	1-1/2"	10	6	14PC00094
40	1-9/16"	10	6	14PC00095
41	1-5/8"	10	6	14PC00096
43	1-11/16"	10	6	14PC00097
44	1-3/4"	10	6	14PC00098

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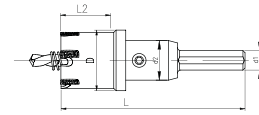


Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
46	1-13/16"	10	6	14PC00099
48	1-7/8"	10	6	14PC00100
51	2"	10	6	14PC00101
52	2-1/16"	10	6	14PC00102
54	2-1/8"	10	6	14PC00103
57	2-1/4"	10	6	14PC00104
59	2-5/16"	10	6	14PC00105
60	2-3/8"	10	6	14PC00106
64	2-1/2"	13	6	14PC00107
65	2-9/16"	13	6	14PC00108
67	2-5/8"	13	6	14PC00109
68	2-11/16"	13	6	14PC00110
70	2-3/4"	13	6	14PC00111
73	2-7/8"	13	6	14PC00112
76	3"	13	6	14PC00113
79	3-1/8"	13	6	14PC00114
83	3-1/4"	13	6	14PC00115
86	3-3/8"	13	6	14PC00116
89	3-1/2"	13	6	14PC00117
92	3-5/8"	13	6	14PC00118
95	3-3/4"	13	6	14PC00119
98	3-7/8"	13	6	14PC00120
102	4"	13	6	14PC00121
105	4-1/8"	13	6	14PC00122
108	4-1/4"	13	6	14PC00123
111	4-3/8"	13	6	14PC00124
114	4-1/2"	13	6	14PC00125
121	4-3/4"	13	6	14PC00126
127	5"	13	6	14PC00127
133	5-1/4"	13	6	14PC00128
140	5-1/2"	13	6	14PC00129
146	5-3/4"	13	6	14PC00130
152	6"	13	6	14PC00131

are available according to requirements

T.C.T. Hole Cutter for Thin Plate Materials

- ◆ Carbide tipped cutting edge welded to the tough alloy steel body
- ◆ Special Multi-Cut design (3-ply) help to remove chips and reduce cutting resistance.
- ◆ High cutting speed, High wear resistance and considerably longer tool life
- ◆ Ideal for high alloy and stainless steels, non-ferrous and light metals and reinforced fabrics
- ◆ Hole cutter and shank in one piece
- ◆ Work with portable electric or pneumatic tools, vertical drill machines etc.
- ◆ **Effective length: 12mm**
- ◆ **Equipped with Ø6mm HSS Pilot Drill and Ejector Spring for piloting and removing the cutted piece.**



Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
14	9/16"	10	6	14PG00055
16	5/8"	10	6	14PG00056
17	11/16"	10	6	14PG00057
19	3/4"	10	6	14PG00058
20	25/32"	10	6	14PG00059
21	13/16"	10	6	14PG00060
22	7/8"	10	6	14PG00061
24	15/16"	10	6	14PG00062
25	1"	10	6	14PG00063
27	1-1/16"	10	6	14PG00064
29	1-1/8"	10	6	14PG00065
30	1-3/16"	10	6	14PG00066
32	1-1/4"	10	6	14PG00067
33	1-5/16"	10	6	14PG00068
35	1-3/8"	10	6	14PG00069
37	1-7/16"	10	6	14PG00070
38	1-1/2"	10	6	14PG00071

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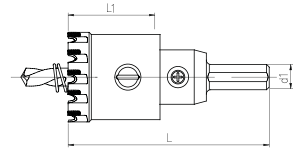


Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
40	1-9/16"	10	6	14PG00072
41	1-5/8"	10	6	14PG00073
43	1-11/16"	10	6	14PG00074
44	1-3/4"	10	6	14PG00075
46	1-13/16"	10	6	14PG00076
48	1-7/8"	10	6	14PG00077
51	2"	10	6	14PG00078
52	2-1/16"	10	6	14PG00079
54	2-1/8"	10	6	14PG00080
57	2-1/4"	10	6	14PG00081
59	2-5/16"	10	6	14PG00082
60	2-3/8"	10	6	14PG00083
64	2-1/2"	13	6	14PG00084
65	2-9/16"	13	6	14PG00085
67	2-5/8"	13	6	14PG00086
68	2-11/16"	13	6	14PG00087
70	2-3/4"	13	6	14PG00088
73	2-7/8"	13	6	14PG00089
76	3"	13	6	14PG00090
79	3-1/8"	13	6	14PG00091
83	3-1/4"	13	6	14PG00092
86	3-3/8"	13	6	14PG00093
89	3-1/2"	13	6	14PG00094
92	3-5/8"	13	6	14PG00095
95	3-3/4"	13	6	14PG00096
98	3-7/8"	13	6	14PG00097
102	4"	13	6	14PG00098
105	4-1/8"	13	6	14PG00099
108	4-1/4"	13	6	14PG00100
111	4-3/8"	13	6	14PG00101
114	4-1/2"	13	6	14PG00102
121	4-3/4"	13	6	14PG00103
127	5"	13	6	14PG00104

T.C.T. Hole Cutter for Thick Plate Materials

- ◆ Carbide tipped cutting edge welded to the tough alloy steel body
- ◆ Special Multi-Cut design (3-ply) help to remove chips and reduce cutting resistance.
- ◆ High cutting speed, High wear resistance and considerably longer tool life
- ◆ Ideal for high alloy and stainless steels, non-ferrous and light metals and reinforced fabrics
- ◆ Applications: Drill flat materials, tubes, vaulted surfaces, overlapped holes possible
- ◆ Work with portable electric or pneumatic tools, vertical drill machines etc.

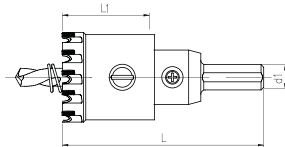
- ◆ **Effective length: 28mm**
- ◆ **Equipped with Ø6mm HSS Pilot Drill and Ejector Spring for piloting and removing the cutter piece.**
- ◆ **14-65mm(9/16"-2 9/16") hole cutter and shank in one piece**
- ◆ **67-152mm(2 5/8"-6") hole cutter and shank in separated**



Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
14	9/16"	10	6	14PG00109
16	5/8"	10	6	14PG00110
17	11/16"	10	6	14PG00111
19	3/4"	10	6	14PG00112
20	25/32"	10	6	14PG00113
21	13/16"	10	6	14PG00114
22	7/8"	10	6	14PG00115
24	15/16"	10	6	14PG00116
25	1"	10	6	14PG00117
27	1-1/16"	10	6	14PG00118
29	1-1/8"	10	6	14PG00119
30	1-3/16"	10	6	14PG00120
32	1-1/4"	10	6	14PG00121
33	1-5/16"	10	6	14PG00122

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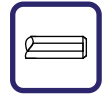
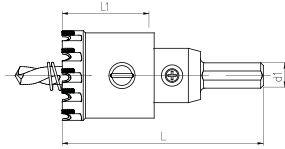
T.C.T. Hole Cutter for Thick Plate Materials



Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
35	1-3/8"	10	6	14PG00123
37	1-7/16"	10	6	14PG00124
38	1-1/2"	10	6	14PG00125
40	1-9/16"	10	6	14PG00126
41	1-5/8"	10	6	14PG00127
43	1-11/16"	10	6	14PG00128
44	1-3/4"	10	6	14PG00129
46	1-13/16"	10	6	14PG00130
48	1-7/8"	10	6	14PG00131
51	2"	10	6	14PG00132
52	2-1/16"	10	6	14PG00133
54	2-1/8"	10	6	14PG00134
57	2-1/4"	10	6	14PG00135
59	2-5/16"	10	6	14PG00136
60	2-3/8"	10	6	14PG00137
64	2-1/2"	13	6	14PG00138
65	2-9/16"	13	6	14PG00139
67	2-5/8"	13	6	14PG00140
68	2-11/16"	13	6	14PG00141
70	2-3/4"	13	6	14PG00142
73	2-7/8"	13	6	14PG00143
76	3"	13	6	14PG00144
79	3-1/8"	13	6	14PG00145
83	3-1/4"	13	6	14PG00146

Continued

T.C.T. Hole Cutter for Thick Plate Materials



Cutter Dia.		Shank Dia. mm	Pilot Drill Dia. mm	Order No.
mm	inch			
86	3-3/8"	13	6	14PG00147
89	3-1/2"	13	6	14PG00148
92	3-5/8"	13	6	14PG00149
95	3-3/4"	13	6	14PG00150
98	3-7/8"	13	6	14PG00151
102	4"	13	6	14PG00152
105	4-1/8"	13	6	14PG00153
108	4-1/4"	13	6	14PG00154
111	4-3/8"	13	6	14PG00155
114	4-1/2"	13	6	14PG00156
121	4-3/4"	13	6	14PG00157
127	5"	13	6	14PG00158
133	5-1/4"	13	6	14PG00159
140	5-1/2"	13	6	14PG00160
146	5-3/4"	13	6	14PG00161
152	6"	13	6	14PG00162

7 Pcs T.C.T. Hole Cutter Kits for Thin Plate Materials

In Plastic Box

- ◆ Group of 7 pcs common size T. C. T. hole cutter for general applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage



Contents		Order No.
mm	inch	
19	3/4"	27AQ00015
22	7/8"	
25	1"	
29	1-1/8"	
35	1-3/8"	
44	1-3/4"	
51	2"	
1 x Arbor		
1 x Pilot Drill		
1 x Ejector Spring		
2 x Hex Key		

A range of general purpose and specialist kits are available

Hole Saw Application:

		Constant Pitch Bi-Metal Hole Saw	Variable Pitch Bi-Metal Hole Saw	Carbide Tipped Hole saw	Carbide Grit Hole Saw	Diamond Coated Hole saw
Material Thickness	<3mm	✓	✓	✓	✓	✓
	3-13mm		✓	✓	✓	✓
	>13mm		✓	✓	✓	✓
Wood		●	●	★	●	
Nail Embedded Wood				★		
Non-Ferrous Metal			★		●	
Plastics & Composites		●	●	●	★	
Metal		★	★	★	●	
Inox(Stainless Steel)		★	★	★	●	
Drywall/Plaster		★	★	★	●	
Cast Iron		●	●	★	●	★
Cement Board					●	★
Abrasives					●	★
Tile				●	●	★
Stone					●	★

Cutting Performance

Excellent	★	Satisfactory	●
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Recommended Revolutions per Minute(RPM) For Sawing Various Materials By Hole Saw Diameter

Diameter	Mild Steel	Tool Steel	Brass & Aluminum	Wood
9/16"-1"	580-350	300-175	790-470	800-500
1-1/16"-2"	325-170	160-85	435-230	500-200
2-1/16"-3"	165-115	80-35	220-150	200-150
3-1/8"-4"	110-85	55-40	140-110	150-100
4-1/8"-6"	80-55	40-25	100-75	100-75
6-5/14-6-5/8"	50	25	75	150
6-31/32"	45	20	65	140
8-9/32"	40	20	60	125

Hole Saw Terminology and Application Tips.

- ◆ Pipe Size is designated by the Inside Diameter (ID). For example, a 7/8" diameter hole saw is used to prepare a hole through which a 1/2" pipe may be inserted.
- ◆ Tubing Size is designated by the Outside Diameter (OD). For example, when preparing an entrance hole for a given tubing diameter, select a hole saw with the same diameter.
- ◆ Pipe Taps listed are for threading holes prepared by hole sawing to receive threaded pipe. For example, a 7/8" diameter hole saw will provide a proper hole for a 3/4" pipe tap.

For best performance and longest life, follow these guidelines every time you use hole saws.

- ◆ Always wear safety glasses.
- ◆ Keep hands, hair and loose clothing away from all rotating tools.
- ◆ Use oil or other coolants on most metal work pieces, except cast iron.
- ◆ Hold the saw firmly and drill perpendicular to the work surface.
- ◆ Apply sufficient pressure to enable the saw to cut freely. Clear chips away from area frequently.
- ◆ Operate the saw at the recommended speeds for the material being cut and the diameter of the saw. Never exceed the recommended operating speed.
- ◆ Avoid excessive heat generation on the cutting surface.

Safety Appliances



Safety Glasses



Safety Facial Mask



Safety Earflap









Safety Gloves

Hole Saw Arbors & Accessories









Hole saw arbors with HSS/carbide tipped pilot drills are built for use with portable drills and drill presses. The saws are quickly replaced without tools and without removing the arbor from the chuck.

Hole Saw Arbors

Model	Model No.	For Chuck Size	Fits Saw Size	Shank Size	Shank Type	Thread size	Order No.
	K4	1/4"	9/16" to 1 3/16"	1/4"	Round	1/2"-20UNF	14AZ00067
	K1	3/8"	9/16" to 1 3/16"	3/8"	Hex	1/2"-20UNF	14AZ00068
	K2	3/8"	1 1/4" to 7 7/8"	3/8"	Hex	5/8"-18UNF	14AZ00069
	K10	1/2"	1 1/4" to 7 7/8"	7/16"	Hex	5/8"-18UNF	14AZ00070
	K1Q	1/4" Quick Change	9/16" to 1 3/16"	1/4"	Quick change Hex shank	1/2"-20UNF	14AZ00071
	K2Q	1/4" Quick Change	1 3/4" to 3"	1/4"	Quick change Hex shank	5/8"-18UNF	14AZ00072

Other design/shank size are available according to requirements

Hole Saw Accessories



Model	Model No.	Description	Order No.
	K11D	1/4" x4" HSS Pilot Drill	14AA02184
	K12D	1/4" x4-1/2" HSS Pilot Drill	14AA02185
	K11CD	1/4" x4" Carbide Tipped Pilot Drill *	14AK00030
	K12CD	1/4" x4-1/2" Carbide Tipped Pilot Drill *	14AK00031
	K13A	Adapter Fits Arbors K1/K4	14PF00002
	K14S	Ejector Spring Fits over Pilot Drill(pushes core out of saw after cut)	14PE00002
	K15W	Hex Key Wrench	17CK00014
	K16E	5-1/2" (140mm)Extension Bar Fits Hex Shank	17ZZ00001
	K17E	10" (250mm)Extension Bar Fits Hex Shank	17ZZ00002
	K18E	12" (300mm)Extension Bar Fits Hex Shank	17ZZ00003
	K19E	18" (450mm)Extension Bar Fits Hex Shank	17ZZ00004

*Remark:When using carbide grit or diamond grit saws,choose carbide tipped pilot drills

Bi-Metal Hole Saws

- ◆ Featuring an hardened HSS cutting edge welded to a tough alloy steel body
- ◆ Heavy duty shatter resistant construction, Virtually unbreakable
- ◆ Modified cutting angle guarantee smooth running and positive cut
- ◆ Applicable for pipes and sheets such as wood, plastic, steel, cast iron, non-ferrous and light metals,
- ◆ Work with portable electric or pneumatic tools, vertical drill machines, lathe, boring/milling machines etc.

Teeth Pitch Type:

<p>Constant Pitch</p> <ul style="list-style-type: none"> ◆ First choice for cutting thin material up to 3mm thickness ◆ 6 teeth per inch (6TPI) ◆ Cutting Depth 38mm(1-1/2") 	
<p>Variable Pitch</p> <ul style="list-style-type: none"> ◆ The complete multi purpose saw, irrespective of thickness. ◆ Variable pitch teeth guarantee completely smooth running and high cutting performance ◆ Special tooth geometry allows faster and easier chip removal ◆ Greatly extended tooth life compare with constant pitch type ◆ 4 to 6 teeth per inch(4 to 6 TPI) ◆ Cutting Depth 38mm(1-1/2") 	

Bi-Metal Hole Saws



DIAMETER		PIPE TAP		PIPE ENTRANCE		USE ARBOR	Constant Pitch Order No.	Variable Pitch Order No.
Inch	mm	Inch	mm	Inch	mm	Model No		
9/16"	14	—	—	—	—	K1,K4 or K1Q	14PB00001	14PA00001
5/8"	16	—	—	—	—	K1,K4 or K1Q	14PB00002	14PA00002
11/16"	17	—	—	—	—	K1,K4 or K1Q	14PB00003	14PA00003
3/4"	19	1/2"	12.7	3/8"	9.5	K1,K4 or K1Q	14PB00004	14PA00004
25/32"	20	—	—	—	—	K1,K4 or K1Q	14PB00005	14PA00005
13/16"	21	—	—	—	—	K1,K4 or K1Q	14PB00006	14PA00006
7/8"	22	3/4"	19.1	1/2"	12.7	K1,K4 or K1Q	14PB00007	14PA00007
15/16"	24	—	—	—	—	K1,K4 or K1Q	14PB00008	14PA00008
1"	25	—	—	—	—	K1,K4 or K1Q	14PB00009	14PA00009
1 1/6"	27	—	—	—	—	K1,K4 or K1Q	14PB00010	14PA00010
1 1/8"	29	1"	25.4	3/4"	19.1	K1,K4 or K1Q	14PB00011	14PA00011
1 3/16"	30	—	—	—	—	K1,K4 or K1Q	14PB00012	14PA00012
1 1/4"	32	—	—	—	—	K2,K10 or K2Q	14PB00013	14PA00013
1 5/16"	33	—	—	—	—	K2,K10 or K2Q	14PB00014	14PA00014
1 3/8"	35	—	—	1"	25.4	K2,K10 or K2Q	14PB00015	14PA00015
1 7/16"	37	—	—	—	—	K2,K10 or K2Q	14PB00016	14PA00016
1 1/2"	38	1 1/4"	31.8	—	—	K2,K10 or K2Q	14PB00017	14PA00017
1 9/16"	40	—	—	—	—	K2,K10 or K2Q	14PB00018	14PA00018
1 5/8"	41	—	—	—	—	K2,K10 or K2Q	14PB00019	14PA00019
1 11/16"	43	—	—	—	—	K2,K10 or K2Q	14PB00020	14PA00020
1 3/4"	44	1 1/2"	38.1	1 1/4"	31.8	K2,K10 or K2Q	14PB00021	14PA00021
1-13/16"	46	—	—	—	—	K2,K10 or K2Q	14PB00022	14PA00057
1 7/8"	48	—	—	—	—	K2,K10 or K2Q	14PB00023	14PA00023
2"	51	—	—	1 1/2"	38.1	K2,K10 or K2Q	14PB00024	14PA00024
2 1/16"	52	—	—	—	—	K2,K10 or K2Q	14PB00025	14PA00025
2 1/8"	54	—	—	—	—	K2,K10 or K2Q	14PB00026	14PA00026
2 1/4"	57	2"	50.8	—	—	K2,K10 or K2Q	14PB00027	14PA00027
2 5/16"	59	—	—	—	—	K2,K10 or K2Q	14PB00028	14PA00028
2 3/8"	60	—	—	—	—	K2,K10 or K2Q	14PB00029	14PA00029
2 1/2"	64	—	—	2"	50.8	K2,K10 or K2Q	14PB00030	14PA00030

Continued



Bi-Metal Hole Saws



DIAMETER		PIPE TAP		PIPE ENTRANCE		USE ARBOR	Constant Pitch Order No.	Variable Pitch Order No.
Inch	mm	Inch	mm	Inch	mm	Model No		
2 9/16"	65	—	—	—	—	K2,K10 or K2Q	14PB00031	14PA00031
2 5/8"	67	2 1/2"	63.5	—	—	K2,K10 or K2Q	14PB00032	14PA00032
2 11/16"	68	—	—	—	—	K2,K10 or K2Q	14PB00033	14PA00033
2 3/4"	70	—	—	—	—	K2,K10 or K2Q	14PB00034	14PA00034
2 7/8"	73	—	—	—	—	K2,K10 or K2Q	14PB00035	14PA00035
3"	76	—	—	2 1/2"	63.5	K2,K10 or K2Q	14PB00036	14PA00036
3 1/8"	79	—	—	—	—	K2 or K10	14PB00037	14PA00037
3 1/4"	83	3"	76.2	—	—	K2 or K10	14PB00038	14PA00038
3 3/8"	86	—	—	—	—	K2 or K10	14PB00039	14PA00058
3 1/2"	89	—	—	—	—	K2 or K10	14PB00040	14PA00040
3 5/8"	92	—	—	3"	76.2	K2 or K10	14PB00041	14PA00041
3 3/4"	95	3 1/2"	85.7	—	—	K2 or K10	14PB00042	14PA00042
3 7/8"	98	—	—	—	—	K2 or K10	14PB00043	14PA00043
4"	102	—	—	—	—	K2 or K10	14PB00044	14PA00044
4 1/8"	105	—	—	3 1/2"	85.7	K2 or K10	14PB00045	14PA00045
4 1/4"	108	4"	95.3	—	—	K2 or K10	14PB00046	14PA00046
4 3/8"	111	—	—	—	—	K2 or K10	14PB00047	14PA00047
4 1/2"	114	—	—	—	—	K2 or K10	14PB00048	14PA00048
4 5/8"	117	—	—	4"	95.3	K2 or K10	14PB00089	14PA00055
4 3/4"	121	4 1/2"	108	—	—	K2 or K10	14PB00049	14PA00049
5"	127	—	—	—	—	K2 or K10	14PB00050	14PA00059
5 1/4"	133	—	—	—	—	K2 or K10	14PB00051	14PA00051
5 1/2"	140	—	—	—	—	K2 or K10	14PB00052	14PA00052
5 3/4"	146	—	—	—	—	K2 or K10	14PB00053	14PA00053
6"	152	—	—	—	—	K2 or K10	14PB00054	14PA00054
6 19/64"	160	—	—	—	—	K2 or K10	14PB00090	14PA00060
6 1/2"	165	—	—	—	—	K2 or K10	14PB00091	14PA00061
6 39/64"	168	—	—	—	—	K2 or K10	14PB00092	14PA00062
7"	178	—	—	—	—	K2 or K10	14PB00093	14PA00063
7 7/8"	200	—	—	—	—	K2 or K10	14PB00094	14PA00064

6 pcs Bi-Metal Hole Saws Kits Lockset Kit

In Plastic Box

- ◆ Group of 6 pcs common size Bi-Metal hole saws for general lockset applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage



Contents			
mm	inch	Constant Pitch Order No.	Variable Pitch Order No.
16	5/8"	27AQ00012	27AQ00013
20	25/32"		
25	1"		
32	1-1/4"		
40	1-9/16"		
51	2"		
Arbor	K4		
	K2		
Adapter	K13A		

A range of general purpose and specialist kits are available


6 pcs Bi-Metal Hole Saws Kits

Electrical kit

In Plastic Box

- ◆ Group of 6 pcs common size Bi-Metal hole saws for general electrical applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage



Contents			
mm	inch	Constant Pitch Order No.	Variable Pitch Order No.
22	7/8"	27AQ00014	27AQ00015
29	1-1/8"		
35	1-3/8"		
44	1-3/4"		
51	2"		
64	2-1/2"		
Arbor	K4		
	K2		
Ejector Spring	K14S		



A range of general purpose and specialist kits are available

11 pcs Bi-Metal Hole Saws Kits Industrial Kit

In Plastic Box

- ◆ Group of 11 pcs common size Bi-Metal hole saws for general industrial applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage



Contents			
mm	inch	Constant Pitch Order No.	Variable Pitch Order No.
19	3/4"		
22	7/8"		
25	1"		
32	1-1/4"		
35	1-3/8"		
38	1-1/2"		
44	1-3/4"		
51	2"	27AQ00016	27AQ00017
57	2-1/4"		
64	2-1/2"		
76	3"		
Arbor	K1		
	K2		
12" (300mm) Extension Bar	K18E		
Ejector Spring	K14S		



A range of general purpose and specialist kits are available

13 pcs Bi-Metal Hole Saws Kits Maintenance Kit

In Plastic Box

- ◆ Group of 13 pcs common size Bi-Metal hole saws for general maintenance applications
- ◆ Plastic Box with stand packing protects cutting edges and convenient for picking and storage

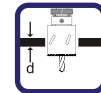


Contents			
mm	inch	Constant Pitch Order No.	Variable Pitch Order No.
19	3/4"		
22	7/8"		
25	1"		
29	1-1/8"		
32	1-1/4"		
35	1-3/8"		
38	1-1/2"		
44	1-3/4"		
51	2"		
57	2-1/4"	27AQ00018	27AQ00019
64	2-1/2"		
75	3"		
83	3-1/4"		
Arbor	K4		
	K2		
12" (300mm) Extension Bar	K18E		
Ejector Spring	K14S		
1/4" x4" HSS Pilot Drill	K11D		
1/4" x4-1/2" HSS Pilot Drill	K12D		

A range of general purpose and specialist kits are available

Carbide Tipped Hole Saws

- ◆ Featuring an carbide tipped cutting edge welded to a tough alloy steel body
- ◆ Carbide tipped ensure high wear resistance and considerably longer tool life
- ◆ Heavy duty shatter resistant construction, Virtually unbreakable
- ◆ Modified cutting angle guarantee smooth running and positive cut
- ◆ Applicable for tough material pipes and sheets such as tile, stainless steel, cast iron, nail embedded wood, non-ferrous and light metals,
- ◆ Work with portable electric or pneumatic tools, vertical drill machines, lathe, boring/milling machines etc.
- ◆ **3 teeth per inch(3 TPI)**
- ◆ **Cutting Depth 38mm(1-1/2")**



DIAMETER		PIPE TAP		PIPE ENTRANCE		USE ARBOR	Order No.
Inch	mm	Inch	mm	Inch	mm	Model No	
3/4"	19	1/2"	12.7	3/8"	9.5	K1,K4 or K1Q	14PG00221
25/32"	20	—	—	—	—	K1,K4 or K1Q	14PG00222
13/16"	21	—	—	—	—	K1,K4 or K1Q	14PG00223
7/8"	22	3/4"	19.1	1/2"	12.7	K1,K4 or K1Q	14PG00224
15/16"	24	—	—	—	—	K1,K4 or K1Q	14PG00225
1"	25	—	—	—	—	K1,K4 or K1Q	14PG00226
1 1/6"	27	—	—	—	—	K1,K4 or K1Q	14PG00227
1 1/8"	29	1"	25.4	3/4"	19.1	K1,K4 or K1Q	14PG00228
1 3/16"	30	—	—	—	—	K1,K4 or K1Q	14PG00229
1 1/4"	32	—	—	—	—	K1,K4 or K1Q	14PG00230
1 3/8"	35	—	—	1	25.4	K1,K4 or K1Q	14PG00231
1 1/2"	38	1 1/4"	31.8	—	—	K2,K10 or K2Q	14PG00232
1 9/16"	40	—	—	—	—	K2,K10 or K2Q	14PG00233
1 5/8"	41	—	—	—	—	K2,K10 or K2Q	14PG00234
1 11/16"	42	—	—	—	—	K2,K10 or K2Q	14PG00235
1 3/4"	45	1 1/2"	38.1	1 1/4"	31.8	K2,K10 or K2Q	14PG00236
1 7/8"	48	—	—	—	—	K2,K10 or K2Q	14PG00237

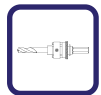
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DIAMETER		PIPE TAP		PIPE ENTRANCE		USE ARBOR	Order No.
Inch	mm	Inch	mm	Inch	mm	Model No	
2"	51	—	—	1 1/2"	38.1	K2,K10 or K2Q	14PG00238
2 1/16"	52	—	—	—	—	K2,K10 or K2Q	14PG00239
2 1/8"	54	—	—	—	—	K2,K10 or K2Q	14PG00240
2 1/4"	57	2"	50.8	—	—	K2,K10 or K2Q	14PG00241
2 3/8"	60	—	—	—	—	K2,K10 or K2Q	14PG00242
2 1/2"	64	—	—	2"	50.8	K2,K10 or K2Q	14PG00243
2 5/8"	67	2 1/2"	63.5	—	—	K2,K10 or K2Q	14PG00244
2 3/4"	70	—	—	—	—	K2,K10 or K2Q	14PG00245
2 7/8"	73	—	—	—	—	K2,K10 or K2Q	14PG00246
3"	76	—	—	2/12"	63.5	K2,K10 or K2Q	14PG00247
3 1/8"	79	—	—	—	—	K2 or K10	14PG00248
3 1/4"	83	3"	76.2	—	—	K2 or K10	14PG00249
3 3/8"	86	—	—	—	—	K2 or K10	14PG00250
3 1/2"	89	—	—	—	—	K2 or K10	14PG00251
3 5/8"	92	—	—	3"	76.2	K2 or K10	14PG00252
3 3/4"	95	3 1/2"	85.7	—	—	K2 or K10	14PG00253
3 7/8"	98	—	—	—	—	K2 or K10	14PG00254
4"	102	—	—	—	—	K2 or K10	14PG00255
4 1/8"	105	—	—	3 1/2"	85.7	K2 or K10	14PG00256
4 1/4"	108	4	95.3	—	—	K2 or K10	14PG00257
4 3/8"	111	—	—	—	—	K2 or K10	14PG00258
4 1/2"	114	—	—	—	—	K2 or K10	14PG00259
4 3/4"	121	4 1/2"	108	—	—	K2 or K10	14PG00260
5"	127	—	—	—	—	K2 or K10	14PG00261
5 1/4"	133	—	—	—	—	K2 or K10	14PG00262
5 1/2"	140	—	—	—	—	K2 or K10	14PG00263
5 3/4"	146	—	—	—	—	K2 or K10	14PG00264
6"	152	—	—	—	—	K2 or K10	14PG00265
6 1/2"	165	—	—	—	—	K2 or K10	14PG00266
7"	178	—	—	—	—	K2 or K10	14PG00267
7 7/8"	200	—	—	—	—	K2 or K10	14PG00268

Carbide Grit Hole Saws

- ◆ Featuring tough alloy steel body with multiple carbide grits permanently bonded to the teeth
- ◆ Very efficient at high speed
- ◆ Prevent binding action and cut smooth holes
- ◆ Applicable for abrasive material pipes and sheets such as ceramics, fiberglass, graphite, carbon, brick and concrete, laminates and other abrasive materials
- ◆ Work with portable electric or pneumatic tools, vertical drill machines, lathe, boring/milling machines etc.
- ◆ Cutting depth 47mm (1 7/8").
- ◆ Equipped with 1/4" carbide tipped pilot drills



DIAMETER		PIPE TAP		PIPE ENTRANCE		USE ARBOR	Order No.
Inch	mm	Inch	mm	Inch	mm	Model No	
3/4"	19	1/2"	12.7	3/8"	9.5	K1,K4 or K1Q	14PH00118
25/32"	20	—	—	—	—	K1,K4 or K1Q	14PH00119
13/16"	21	—	—	—	—	K1,K4 or K1Q	14PH00120
7/8"	22	3/4"	19.1	1/2"	12.7	K1,K4 or K1Q	14PH00121
1"	25	—	—	—	—	K1,K4 or K1Q	14PH00122
1 1/8"	29	1"	25.4	3/4"	19.1	K1,K4 or K1Q	14PH00123
1 1/4"	32	—	—	—	—	K1,K4 or K1Q	14PH00124
1 3/8"	35	—	—	1"	25.4	K1,K4 or K1Q	14PH00125
1 1/2"	38	1 1/4"	31.8	—	—	K2,K10 or K2Q	14PH00126
1 5/8"	41	—	—	—	—	K2,K10 or K2Q	14PH00127
1 3/4"	45	1 1/2"	38.1	1 1/4"	31.8	K2,K10 or K2Q	14PH00128
1 7/8"	48	—	—	—	—	K2,K10 or K2Q	14PH00129
2"	51	—	—	1 1/2"	38.1	K2,K10 or K2Q	14PH00130
2 1/8"	54	—	—	—	—	K2,K10 or K2Q	14PH00131
2 1/4"	57	2"	50.8	—	—	K2,K10 or K2Q	14PH00132
2 3/8"	60	—	—	—	—	K2,K10 or K2Q	14PH00133

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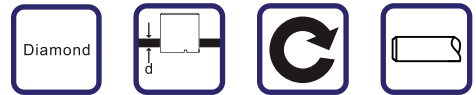
Carbide Grit Hole Saws



DIAMETER		PIPE TAP		PIPE ENTRANCE		USE ARBOR	Order No.
Inch	mm	Inch	mm	Inch	mm	Model No	
2 1/2"	64	—	—	2"	50.8	K2,K10 or K2Q	14PH00134
2 5/8"	68	2 1/2"	63.5	—	—	K2,K10 or K2Q	14PH00135
2 3/4"	70	—	—	—	—	K2,K10 or K2Q	14PH00136
3"	76	—	—	2/12"	63.5	K2,K10 or K2Q	14PH00137
3 1/8"	79	—	—	—	—	K2 or K10	14PH00138
3 1/4"	83	3"	76.2	—	—	K2 or K10	14PH00139
3 3/8"	85	—	—	—	—	K2 or K10	14PH00140
3 1/2"	89	—	—	—	—	K2 or K10	14PH00141
3 5/8"	92	—	—	3"	76.2	K2 or K10	14PH00142
3 3/4"	95	3 1/2"	85.7	—	—	K2 or K10	14PH00143
3 7/8"	98	—	—	—	—	K2 or K10	14PH00144
4"	102	—	—	—	—	K2 or K10	14PH00145
4 1/8"	105	—	—	3 1/2"	85.7	K2 or K10	14PH00146
4 1/4"	108	4"	95.3	—	—	K2 or K10	14PH00147
4 1/2"	114	—	—	—	—	K2 or K10	14PH00148
4 3/4"	121	4 1/2"	108	—	—	K2 or K10	14PH00149

Diamond Coated Hole Saws

- ◆ Featuring tough alloy steel body with synthetic diamond grits coated to the tip
- ◆ Efficient at high speed, Coolant recommended
- ◆ Prevent coating adhesion action and cut smooth holes
- ◆ Applicable for abrasive material sheets such as ceramics, tile, glass, fiberglass, germanium and other abrasive materials
- ◆ Work with portable electric or pneumatic tools, vertical drill machines etc.
- ◆ Cutting depth : 35mm

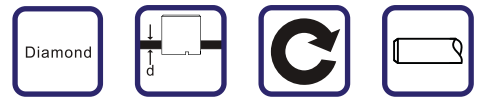


Diameter	Shank Diameter	Overall Length	Order No.
3	3	60	14PJ00001
4	3	60	14PJ00002
5	3	60	14PJ00003
6	3	60	14PJ00004
7	3	60	14PJ00005
8	3	60	14PJ00006
9	3	60	14PJ00007
10	3	60	14PJ00008
11	3	60	14PJ00009
12	3	60	14PJ00010
3	6	65	14PJ00011
4	6	65	14PJ00012
5	6	65	14PJ00013
6	6	65	14PJ00014
7	6	65	14PJ00015
8	6	65	14PJ00016
9	6	65	14PJ00017
10	6	65	14PJ00018

Diameter	Shank Diameter	Overall Length	Order No.
11	6	65	14PJ00019
12	6	65	14PJ00020
14	6	65	14PJ00021
16	6	65	14PJ00022
17	6	65	14PJ00023
19	6	65	14PJ00024
20	6	65	14PJ00025
21	6	65	14PJ00026
22	6	65	14PJ00027
24	6	65	14PJ00028
25	6	65	14PJ00029
27	6	65	14PJ00030
29	6	65	14PJ00031
30	6	65	14PJ00032
32	6	65	14PJ00033
33	6	65	14PJ00034
35	6	65	14PJ00035
37	6	65	14PJ00036

Continued

Diamond Coated Hole Saws



Diameter	Shank Diameter	Overall Length	Order No.
38	6	65	14PJ00037
40	6	65	14PJ00038
42	6	65	14PJ00039
43	6	65	14PJ00040
45	6	65	14PJ00041
46	6	65	14PJ00042
48	6	65	14PJ00043
51	6	65	14PJ00044
52	6	65	14PJ00045
54	6	65	14PJ00046
57	6	65	14PJ00047
59	6	65	14PJ00048
60	6	65	14PJ00049
64	6	65	14PJ00050
65	6	65	14PJ00051
67	6	65	14PJ00052
68	6	65	14PJ00053
70	6	65	14PJ00054

Diameter	Shank Diameter	Overall Length	Order No.
73	6	65	14PJ00055
76	6	65	14PJ00056
80	6	65	14PJ00057
83	6	65	14PJ00058
86	6	65	14PJ00059
89	6	65	14PJ00060
92	6	65	14PJ00061
95	6	65	14PJ00062
98	6	65	14PJ00063
102	6	78	14PJ00064
105	6	78	14PJ00065
108	6	78	14PJ00066
111	6	78	14PJ00067
114	6	78	14PJ00068
118	6	78	14PJ00069
121	6	78	14PJ00070
127	6	78	14PJ00071

Other design/shank size are available according to requirements

