



05

ANNULAR CUTTERS

QUICK PAGES REFERENCES

ANNULAR CUTTERS



High Speed Steel

Bright Finish
For low to medium tensile strength materials

Type	Series	Catalog page reference
	9100SE, 9200SE	406
	9300SE, 9400SE	407



High Speed Steel + Aluminum (M2Al)

Bronze Surface Treatment
For most materials

Type	Series	Catalog page reference
SST	05-A, 05-E	408



Coated High Speed Steel + Aluminum (M2Al)

Chromium Aluminium Based Coating
For longer tool life

Type	Series	Catalog page reference
ICECUT™	05-B, 05-F	409



Cobalt Annular Cutters **NITRO**

Bronze Finish
For long life on stainless steel, titanium, high tensile steel, other hard materials

Type	Series	Catalog page reference
	9100N, 9200N, 9300N	410



Carbide Tipped Annular Cutters

Bright Finish
For high performance on cast iron, cast steel, other hard materials

Type	Series	Catalog page reference
	9100CT, 9200CT	411



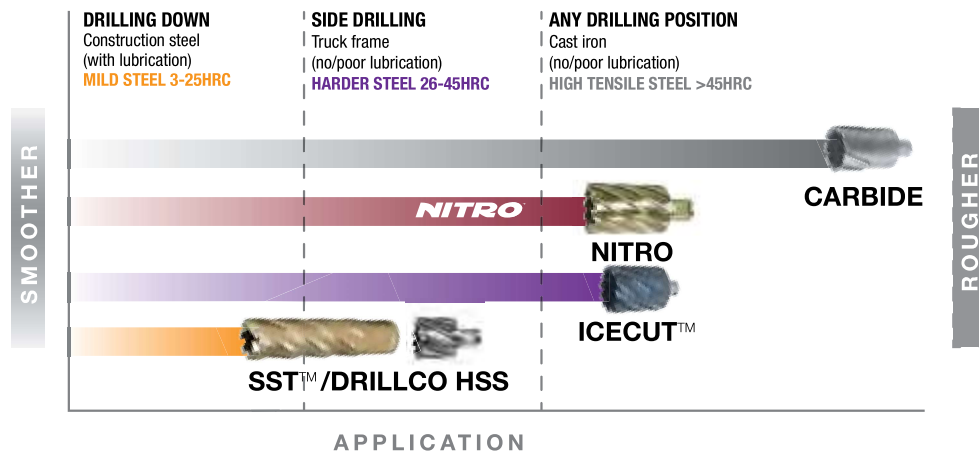
Carbide Tipped Annular Cutters

Bright Finish
For high performance on cast iron, cast steel, other hard materials

Type	Series	Catalog page reference
	05-D, 05-F, 05-H	412



ANNULAR CUTTERS PERFORMANCE CHART



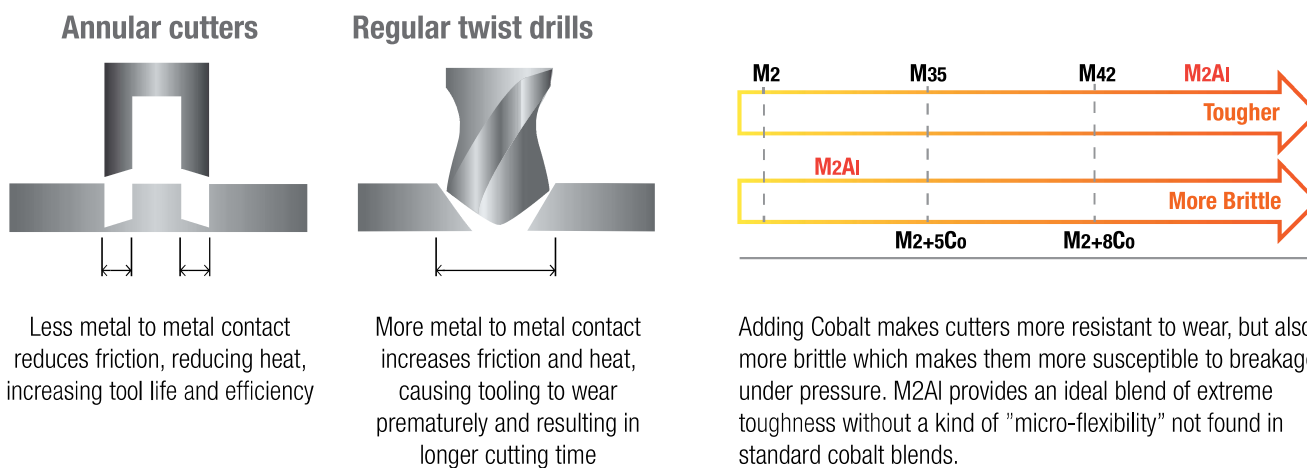
ANNULAR CUTTERS EXPLAINED

HIGH-PERFORMANCE ANNULAR CUTTERS

When drilling large holes through thick, flat metal surfaces, it is often more cost effective to use an annular cutter, which cuts at the circumference of the circle, instead of cutting through the entire area of the circle. This allows you to make holes faster and more efficiently.

WALTER annular cutters are tougher because they are made with a sophisticated high speed steel and aluminum blend (M2Al). This advanced HSS blend extends the life of the core cutters by providing excellent toughness and durability, while also reducing the brittleness of the cutter. Conventional cutting tools are typically enhanced with cobalt to increase the resistance to wear (M35 or M42). However, as more cobalt is added, the product actually becomes more brittle, which increases the risk of breakage under load.

Through a graduated hardening of the cutter body, and by adding aluminum to the base material, WALTER core cutters have more "micro-flexibility" than M35 or M42 core cutters. This makes WALTER HSS annular cutters less brittle than a regular M42 annular cutter, and also makes them last much longer than other high speed steels. An exclusive triple tooth design and special fluting angle help optimize chip evacuation and eliminate chip debris. WALTER's exclusive AlCrN coating on the ICECUT™ line of coated annular cutters forms a nano-sized lubrication layer when heated, making it self-lubricating and preventing materials from sticking, melting or deforming during hole-making. The ICECUT™ annular cutters provide the longest life of all coated HSS annular cutters.



Annular Cutter Selection Chart. Match the Best Cutter for your Application

	SST™ Core Cut/Drillco HSS	Icecut™	Nitro™ Cobalt	Carbide (WALTER/Drillco)
SPECIFICATIONS				
Diameter Range	1/2" - 4"	1/2" - 2-3/8"	7/16" - 2-1/4"	1/2" - 4"
Drilling Depth	1", 2", 3" and 4"	Up to 4" depth cutters on selected items	1", 2" and 3"	1-1/2", 2", 3", 4"
Shank Size	3/4" and 1-1/4"	3/4"	3/4"	3/4", 1-1/4"
Shank Type	Universal & Weldon shank with 2 flats	Universal & Weldon shank with 2 flats	Weldon shank	Universal & Weldon shank with 2 flats*
MATERIAL				
Mild Steel (3 to 25 HRC)	✓	✓	✓	✓
Harder Steel (26 to 45 HRC)	✓	✓	✓	✓
Stainless Steel (300 and 400 series)	✓	✓	✓	✓
Cast Iron	—	✓	✓	✓
Aluminum	✓	✓	✓	✓
Brass and Bronze	✓	✓	✓	✓
Hardox / Scandia	—	—	✓	✓
Rough / Uneven material	—	—	✓	✓
Railroad Track	—	—	✓	✓
CHARACTERISTICS				
Cutting Speed	Fast	Very Fast	Very Fast	Extra Fast
Cutter Life	Long	Very Long	Very Long	Extra Long

✓ Highly Recommended
 ✓ Recommended

*Metric line available

HIGH SPEED STEEL ANNULAR CUTTERS



Produce large diameter holes efficiently and quickly with less energy

Rather than drilling out the metal with a solid drill, Drillco cutters remove only the periphery of the hole, ejecting a slug at the end of the cut.

- ▷ For a wide range of materials
- ▷ Up to 4" diameter and 4" depth of cut
- ▷ Weldon Shank



9100SE SERIES HIGH SPEED STEEL 1" Depth of Cut Fractional



3/4" SHANK		
Size	HSS 9100SE Order No.	HSS 9100SE WITH PINS
7/16"	91SE128	91SE128K
1/2"	91SE132	91SE132K
9/16"	91SE136	91SE136K
5/8"	91SE140	91SE140K
11/16"	91SE144	91SE144K
3/4"	91SE148	91SE148K
13/16"	91SE152	91SE152K
7/8"	91SE156	91SE156K
15/16"	91SE160	91SE160K
1"	91SE164	91SE164K
1-1/16"	91SE204	91SE204K
1-1/8"	91SE208	91SE208K
1-3/16"	91SE212	91SE212K
1-1/4"	91SE216	91SE216K
1-5/16"	91SE220	91SE220K
1-3/8"	91SE224	91SE224K
1-7/16"	91SE228	91SE228K
1-1/2"	91SE232	91SE232K
1-9/16"	91SE236	-
1-5/8"	91SE240	-
1-11/16"	91SE244	-
1-3/4"	91SE248	-
1-13/16"	91SE252	-
1-7/8"	91SE256	-
1-15/16"	91SE260	-
2"	91SE264	-
2-1/16"	91SE304	-
2-1/8"	91SE308	-
2-3/16"	91SE312	-
2-1/4"	91SE316	-
2-5/16"	91SE320	-
2-3/8"	91SE324	-
2-7/16"	91SE328	-
2-1/2"	91SE332	-
2-9/16"	91SE336	-
2-5/8"	91SE340	-
2-11/16"	91SE344	-
2-3/4"	91SE348	-
2-13/16"	91SE352	-
2-7/8"	91SE356	-
2-15/16"	91SE360	-
3"	91SE364	-

1-1/4" SHANK	
Size	HSS 9100SE Order No.
3-1/16"	91SE404
3-1/8"	91SE408
3-3/16"	91SE412
3-1/4"	91SE416
3-5/16"	91SE420
3-3/8"	91SE424
3-7/16"	91SE428
3-1/2"	91SE432
3-9/16"	91SE436
3-5/8"	91SE440
3-11/16"	91SE444
3-3/4"	91SE448
3-13/16"	91SE452
3-7/8"	91SE456
3-15/16"	91SE460
4"	91SE464

HSS & Cobalt Annular Cutter Pilot Pins	
Description	Order No.
1" depth of cut pilot pin for 1/2" - 2-1/4"	91SE001
1" depth of cut pilot pin for 7/16"	91SE002
1" depth of cut pilot pin for 2-5/16" & larger sizes	91SE003



91SE7S

9200SE SERIES HIGH SPEED STEEL 2" Depth of Cut Fractional



3/4" SHANK		
Size	HSS 9200SE Order No.	HSS 9200SE WITH PINS
7/16"	92SE128	92SE128K
1/2"	92SE132	92SE132K
9/16"	92SE136	92SE136K
5/8"	92SE140	92SE140K
11/16"	92SE144	92SE144K
3/4"	92SE148	92SE148K
13/16"	92SE152	92SE152K
7/8"	92SE156	92SE156K
15/16"	92SE160	92SE160K
1"	92SE164	92SE164K
1-1/16"	92SE204	92SE204K
1-1/8"	92SE208	92SE208K
1-3/16"	92SE212	92SE212K
1-1/4"	92SE216	92SE216K
1-5/16"	92SE220	92SE220K
1-3/8"	92SE224	92SE224K
1-7/16"	92SE228	92SE228K
1-1/2"	92SE232	92SE232K
1-9/16"	92SE236	-
1-5/8"	92SE240	-
1-11/16"	92SE244	-
1-3/4"	92SE248	-
1-13/16"	92SE252	-
1-7/8"	92SE256	-
1-15/16"	92SE260	-
2"	92SE264	-
2-1/16"	92SE304	-
2-1/8"	92SE308	-
2-3/16"	92SE312	-
2-1/4"	92SE316	-
2-5/16"	92SE320	-
2-3/8"	92SE324	-
2-7/16"	92SE328	-
2-1/2"	92SE332	-
2-9/16"	92SE336	-
2-5/8"	92SE340	-
2-11/16"	92SE344	-
2-3/4"	92SE348	-
2-13/16"	92SE352	-
2-7/8"	92SE356	-
2-15/16"	92SE360	-
3"	92SE364	-

1-1/4" SHANK	
Size	9200SE Order No.
3-1/16"	92SE404
3-1/8"	92SE408
3-3/16"	92SE412
3-1/4"	92SE416
3-5/16"	92SE420
3-3/8"	92SE424
3-7/16"	92SE428
3-1/2"	92SE432
3-9/16"	92SE436
3-5/8"	92SE440
3-11/16"	92SE444
3-3/4"	92SE448
3-13/16"	92SE452
3-7/8"	92SE456
3-15/16"	92SE460
4"	92SE464

HSS & Cobalt Annular Cutter Pilot Pins	
Description	Order No.
2" depth of cut pilot pin for 1/2" - 2-1/4"	92SE001
2" depth of cut pilot pin for 7/16" only	92SE002
2" depth of cut pilot pin for 2-5/16" & larger sizes	92SE003

9300SE SERIES
HIGH SPEED STEEL
3" Depth of Cut
Fractional



3/4" SHANK	
Size	HSS 9300SE Order No.
3/4"	93SE148
13/16"	93SE152
7/8"	93SE156
15/16"	93SE160
1"	93SE164
1-1/16"	93SE204
1-1/8"	93SE208
1-3/16"	93SE212
1-1/4"	93SE216
1-5/16"	93SE220
1-3/8"	93SE224
1-7/16"	93SE228
1-1/2"	93SE232
1-9/16"	93SE236
1-5/8"	93SE240
1-11/16"	93SE244
1-3/4"	93SE248
1-13/16"	93SE252
1-7/8"	93SE256
1-15/16"	93SE260
2"	93SE264
2-1/16"	93SE304
2-1/8"	93SE308
2-3/16"	93SE312
2-1/4"	93SE316
2-5/16"	93SE320
2-3/8"	93SE324
2-7/16"	93SE328
2-1/2"	93SE332
2-9/16"	93SE336
2-5/8"	93SE340
2-11/16"	93SE344
2-3/4"	93SE348
2-13/16"	93SE352
2-7/8"	93SE356
2-15/16"	93SE360
3"	93SE364

1-1/4" SHANK	
Size	9300SE Order No.
3-1/16"	93SE404
3-1/8"	93SE408
3-3/16"	93SE412
3-1/4"	93SE416
3-5/16"	93SE420
3-3/8"	93SE424
3-7/16"	93SE428
3-1/2"	93SE432
3-9/16"	93SE436
3-5/8"	93SE440
3-11/16"	93SE444
3-3/4"	93SE448
3-13/16"	93SE452
3-7/8"	93SE456
3-15/16"	93SE460
4"	93SE464

Annular Cutter Pilot Pin	
Description	Order No.
3" depth of cut pilot pin for 2-5/16" & larger sizes	93SE003

Annular Cutter Pilot Pin	
Description	Order No.
3" depth of cut pilot pin for 1/2" - 2-1/4"	93SE001



9400SE SERIES
HIGH SPEED STEEL
4" Depth of Cut
Fractional



3/4" SHANK	
Size	9400SE Order No.
3/4"	94SE148
13/16"	94SE152
7/8"	94SE156
15/16"	94SE160
1"	94SE164
1-1/16"	94SE204
1-1/8"	94SE208
1-3/16"	94SE212
1-1/4"	94SE216
1-5/16"	94SE220
1-3/8"	94SE224
1-7/16"	94SE228
1-1/2"	94SE232
1-9/16"	94SE236
1-5/8"	94SE240
1-11/16"	94SE244
1-3/4"	94SE248
1-13/16"	94SE252
1-7/8"	94SE256
1-15/16"	94SE260
2"	94SE264
2-1/16"	94SE304
2-1/8"	94SE308
2-3/16"	94SE312
2-1/4"	94SE316
2-5/16"	94SE320
2-3/8"	94SE324
2-7/16"	94SE328
2-1/2"	94SE332
2-9/16"	94SE336
2-5/8"	94SE340
2-11/16"	94SE344
2-3/4"	94SE348
2-13/16"	94SE352
2-7/8"	94SE356
2-15/16"	94SE360
3"	94SE364

1-1/4" SHANK	
Size	9400SE Order No.
3-1/16"	94SE404
3-1/8"	94SE408
3-3/16"	94SE412
3-1/4"	94SE416
3-5/16"	94SE420
3-3/8"	94SE424
3-7/16"	94SE428
3-1/2"	94SE432
3-9/16"	94SE436
3-5/8"	94SE440
3-11/16"	94SE444
3-3/4"	94SE448
3-13/16"	94SE452
3-7/8"	94SE456
3-15/16"	94SE460
4"	94SE464

Annular Cutter Pilot Pin	
Description	Order No.
4" depth of cut pilot pin for 1/2" thru 1-7/16" sizes	94SE001
4" depth of cut pilot pin for 1-1/2" and larger sizes	94SE003



Annular Cutters 32.pc Fractional Sizes display			
Material	Series	Includes	Item Number
Nitro® (Cobalt)	9100N & 9200N	1 each of the following: 1/2, 5/8, 11/16, 3/4,	912N32D
High Speed Steel	9100SE & 9200SE	13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, and 6 pins	912SE32D
Carbide Tipped	9100CT & 9200CT	1 each of the following: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, and 6 pins	912CT32D



HIGH SPEED STEEL SST™ CORE CUT ANNULAR CUTTERS

05-A / 05-E Series

HIGH SPEED STEEL

1", 2" & 3" Depth of Cut
Fractional

Guaranteed to outperform all uncoated cutters

Super Speed Tip (SST) Core Cutters are made with state-of-the-art surface treatment technology that removes porosity during the fabrication process. This creates a perfectly smooth finish which allows for a better evacuation of material while cutting. It also helps to improve product life and reduce cutting time as it decreases friction with the work surface, which in turn reduces the amount of heat generated.

- ▷ Cuts faster
- ▷ Lasts longer
- ▷ Universal shank
- ▷ Exclusive SST surface treatment
- ▷ Multiple tooth design
- ▷ Packaged in reusable plastic packaging



Diameter		Std pkg	Weldon Shank			Universal Shank	
Inches	mm		1" cutters	2" cutters	3" cutters	1" cutters	2" cutters
Use with pilot pin			Order No.	Order No.	Order No.	Order No.	Order No.
			05-Z 001	05-Z 002	05-Z 018	05-Z 029	05-Z 002
7/16"	11.1	1				05-E 007*	
						*Use with pilot pin 05-Z 029	
1/2"	12.7	1	05-A 008	05-A 308		05-E 008	05-E 308
9/16"	14.3	1	05-A 009	05-A 309		05-E 009	05-E 309
5/8"	15.9	1	05-A 010	05-A 310		05-E 010	05-E 310
11/16"	17.5	1	05-A 011	05-A 311	05-A 611	05-E 011	05-E 311
3/4"	19.0	1	05-A 012	05-A 312		05-E 012	05-E 312
13/16"	20.6	1	05-A 013	05-A 313	05-A 613	05-E 013	05-E 313
7/8"	22.2	1	05-A 014	05-A 314		05-E 014	05-E 314
15/16"	23.8	1	05-A 015	05-A 315	05-A 615	05-E 015	05-E 315
1"	25.4	1	05-A 100	05-A 400		05-E 100	05-E 400
1-1/16"	27.0	1	05-A 101	05-A 401	05-A 701	05-E 101	05-E 401
1-1/8"	28.6	1	05-A 102	05-A 402		05-E 102	05-E 402
1-3/16"	30.2	1	05-A 103	05-A 403		05-E 103	05-E 403
1-1/4"	31.8	1	05-A 104	05-A 404		05-E 104	05-E 404
1-5/16"	33.3	1	05-A 105	05-A 405		05-E 105	05-E 405
1-3/8"	34.9	1	05-A 106	05-A 406		05-E 106	05-E 406
1-7/16"	36.5	1	05-A 107	05-A 407		05-E 107	05-E 407
1-1/2"	38.1	1	05-A 108	05-A 408		05-E 108	05-E 408
1-9/16"	39.7	1	05-A 109	05-A 409			05-E 409
1-5/8"	41.3	1	05-A 110	05-A 410			
1-3/4"	44.5	1	05-A 112	05-A 412			
1-13/16"	46.0	1	05-A 113	05-A 413			
1 7/8"	47.6	1	05-A 114	05-A 414			
1-15/16"	49.2	1	05-A 115	05-A 415			
2"	51.0	1	05-A 200	05-A 500			
2-1/16"	52.4	1	05-A 201	05-A 501			
2-1/8"	54.0	1	05-A 202	05-A 502			
2-3/16"	55.6	1	—	05-A 503			
2-1/4"	57.2	1		05-A 504			
2-5/16"	58.7	1		05-A 505			
2-3/8"	60.3	1		05-A 506			

Other sizes are available upon special request. Please speak with your WALTER sales representative.



SST Core Cut Kits	
Material	
Special bronze SST surface treatment Weldon shank	
Includes	
1 of each diameter: 9/16", 11/16", 13/16", 15/16", 1", 1-1/16" and pilot pin"	
Depth of Cut	Item Number
1" annular cutter kit	05-A 991
2" annular cutter kit	05-A 992

COATED HIGH SPEED STEEL ICECUT™ ANNULAR CORE CUTTERS

05-B / 05-F Series

COATED HIGH SPEED STEEL

1", 2", 3" & 4" Depth of Cut
Fractional

Guaranteed to cut more holes in less time!

ICECUT™ annular cutters are coated with an exclusive mixture of chromium and aluminum (AlCrN) and are designed to be used where lubricants are not permitted or problematic to apply. This technology outperforms any annular core cutters coated with Titanium Nitride (TiN) or Titanium Aluminum Nitride (TiAlN). By incorporating a chromium aluminum blend into the coating, WALTER ICECUT™ annular cutters generate less heat and can withstand temperatures at least 200°C higher than conventional TiAlN cutters. This exclusive coating makes the ICECUT™ more resistant to higher stress under load and impact.

- ▷ Well-known quality and durability
- ▷ Lasts longer than uncoated core cutters
- ▷ Exclusive ICECUT™ AlCrN coating
- ▷ Fully ground extra large flutes
- ▷ Packaged in reusable plastic packaging



ICECUT™ Core Cut Kits

Material

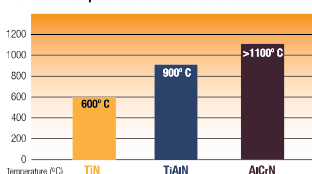
Exclusive ICECUT™ surface coating
Weldon shank

Includes

1 of each diameter:
9/16", 11/16", 13/16", 15/16", 1",
1-1/16" and pilot pin

Depth of Cut	Item Number
1" annular cutter kit	05-B 991
2" annular cutter kit	05-B 992

Maximum temperature before deformation



Diameter		Std pkg	Weldon Shank				Universal Shank	
			1" cutters	2" cutters	3" cutters	4" cutters	1" cutters	2" cutters
Inches	mm		Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
Use with pilot pin			05-Z 001	05-Z 002	05-Z 018 05-Z 032	05-Z 031 05-Z 033	05-Z 001	05-Z 002
7/16"	11.1	1					05-F 007* *Use with pilot pin 05-Z 029	05-F 307* *Use with pilot pin 05-Z 030
1/2"	12.7	1	05-B 008	05-B 308			05-F 008	05-F 308
9/16"	14.3	1	05-B 009	05-B 309			05-F 009	05-F 309
5/8"	15.9	1	05-B 010	05-B 310			05-F 010	05-F 310
11/16"	17.5	1	05-B 011	05-B 311	05-B 611	05-B 811	05-F 011	05-F 311
3/4"	19.0	1	05-B 012	05-B 312			05-F 012	05-F 312
13/16"	20.6	1	05-B 013	05-B 313	05-B 613	05-B 813	05-F 013	05-F 313
7/8"	22.2	1	05-B 014	05-B 314			05-F 014	05-F 314
15/16"	23.8	1	05-B 015	05-B 315	05-B 615	05-B 815	05-F 015	05-F 315
1"	25.4	1	05-B 100	05-B 400			05-F 100	05-F 400
1-1/16"	27.0	1	05-B 101	05-B 401	05-B 701	05-B 901	05-F 101	05-F 401
1-1/8"	28.6	1	05-B 102	05-B 402			05-F 102	05-F 402
1-3/16"	30.2	1	05-B 103	05-B 403			05-F 103	05-F 403
1-1/4"	31.8	1	05-B 104	05-B 404			05-F 104	05-F 404
1-5/16"	33.3	1	05-B 105	05-B 405			05-F 105	05-F 405
1-3/8"	34.9	1	05-B 106	05-B 406			05-F 106	05-F 406
1-7/16"	36.5	1	05-B 107	05-B 407			05-F 107	05-F 407
1-1/2"	38.1	1	05-B 108	05-B 408			05-F 108	05-F 408
1-9/16"	39.7	1	05-B 109	05-B 409				
1-5/8"	41.3	1	05-B 110	05-B 410				
1-3/4"	44.5	1	05-B 112	05-B 412				
1-13/16"	46.0	1	05-B 113	05-B 413				
1-7/8"	47.6	1	05-B 114	05-B 414				
1-15/16"	49.2	1	05-B 115	05-B 415				
2"	51.0	1	05-B 200	05-B 500				
2-1/16"	52.4	1	05-B 201	05-B 501				
2-1/8"	54.0	1	05-B 202	05-B 502				
2-3/16"	55.6	1		05-B 503				
2-1/4"	57.2	1		05-B 504				
2-5/16"	58.7	1		05-B 505				
2-3/8"	60.3	1		05-B 506				

Other sizes are available upon special request. Please speak with your WALTER sales representative.

COBALT ANNULAR CUTTERS



Offer even better performance over the standard High Speed Steel ranges

- ▷ Cobalt substrate helps deflect heat, allowing for faster speeds and feeds than HSS annular cutters
- ▷ Suitable for more demanding applications, such as stainless steel and titanium
- ▷ Bronze surface treatment for added lubricity

9100N SERIES

COBALT

1" Depth of Cut
Fractional



3/4" SHANK	
Size	Nitro® 9100N Order No.
7/16"	91N128
1/2"	91N132
9/16"	91N136
5/8"	91N140
11/16"	91N144
3/4"	91N148
13/16"	91N152
7/8"	91N156
15/16"	91N160
1"	91N164
1-1/16"	91N204
1-1/8"	91N208
1-3/16"	91N212
1-1/4"	91N216
1-5/16"	91N220
1-3/8"	91N224
1-7/16"	91N228
1-1/2"	91N232
1-9/16"	91N236
1-5/8"	91N240
1-11/16"	91N244
1-3/4"	91N248
1-13/16"	91N252
1-7/8"	91N256
1-15/16"	91N260
2"	91N264
2-1/16"	91N304
2-1/8"	91N308
2-3/16"	91N312
2-1/4"	91N316



3/4" SHANK	
Size	Nitro® 9100N Order No.
2-5/16"	91N320
2-3/8"	91N324
2-7/16"	91N328
2-1/2"	91N332

HSS & Cobalt Annular Cutter Pilot Pins	
Description	Order No.
1" depth of cut pilot pin for 1/2" – 2-1/4"	91SE001
1" depth of cut pilot pin for 7/16"	91SE002
1" depth of cut pilot pin for 2-5/16" & larger sizes	91SE003

9200N SERIES

COBALT

2" Depth of Cut
Fractional



3/4" SHANK	
Size	Nitro® 9200N Order No.
7/16"	92N128
1/2"	92N132
9/16"	92N136
5/8"	92N140
11/16"	92N144
3/4"	92N148
13/16"	92N152
7/8"	92N156
15/16"	92N160
1"	92N164
1-1/16"	92N204
1-1/8"	92N208
1-3/16"	92N212
1-1/4"	92N216
1-5/16"	92N220
1-3/8"	92N224
1-7/16"	92N228
1-1/2"	92N232
1-9/16"	92N236
1-5/8"	92N240
1-11/16"	92N244
1-3/4"	92N248
1-13/16"	92N252
1-7/8"	92N256
1-15/16"	92N260
2"	92N264
2-1/16"	92N304
2-1/8"	92N308
2-3/16"	92N312
2-1/4"	92N316

HSS & Cobalt Annular Cutter Pilot Pins	
Description	Order No.
2" depth of cut pilot pin for 1/2" – 2-1/4"	92SE001
2" depth of cut pilot pin for 7/16"	92SE002
2" depth of cut pilot pin for 2-5/16" & larger sizes	92SE003

9300N SERIES

COBALT

3" Depth of Cut
Fractional



3/4" SHANK	
Size	Nitro® 9300N Order No.
3/4"	93N148
13/16"	93N152
7/8"	93N156
15/16"	93N160
1"	93N164
1-1/16"	93N204
1-1/8"	93N208
1-3/16"	93N212
1-1/4"	93N216
1-5/16"	93N220
1-3/8"	93N224
1-7/16"	93N228
1-1/2"	93N232
1-9/16"	93N236
1-5/8"	93N240
1-11/16"	93N244
1-3/4"	93N248
1-13/16"	93N252
1-7/8"	93N256
1-15/16"	93N260
2"	93N264
2-1/16"	93N304
2-1/8"	93N308
2-3/16"	93N312
2-1/4"	93N316

Annular Cutter Pilot Pin	
Description	Order No.
3" depth of cut pilot pin	93SE001

CARBIDE TIPPED ANNULAR CUTTERS

Maximize the performance of any Magnetic Drill Machine

- ▷ Deliver reamer-quality, burr free holes in a fraction of the time of a twist drill
- ▷ Eliminates the need for costly pilot holes & step drilling
- ▷ Larger diameters and depths available by special order

9100CT SERIES
CARBIDE TIPPED
1-3/8" Depth of Cut
Fractional



3/4" SHANK	
Size	Carbide Tip 9100CT Order No.
7/16"	-
1/2"	-
9/16"	91CT136
5/8"	91CT140
11/16"	91CT144
3/4"	91CT148
13/16"	91CT152
7/8"	91CT156
15/16"	91CT160
1"	91CT164
1-1/16"	91CT204
1-1/8"	91CT208
1-3/16"	91CT212
1-1/4"	91CT216
1-5/16"	91CT220
1-3/8"	91CT224

Annular Cutter Pilot Pin	
Description	Order No.
1-3/8" depth of cut pilot pin for 3/4" and above	91CT001
1-3/8" depth of cut pilot pin for 9/16" - 11/16"	91CT002



9200CT SERIES
CARBIDE TIPPED
2" Depth of Cut
Fractional



3/4" SHANK	
Size	Carbide Tip 9200CT Order No.
7/16"	-
1/2"	-
9/16"	92CT136
5/8"	92CT140
11/16"	92CT144
3/4"	92CT148
13/16"	92CT152
7/8"	92CT156
15/16"	92CT160
1"	92CT164
1-1/16"	92CT204
1-1/8"	92CT208
1-3/16"	92CT212
1-1/4"	92CT216
1-5/16"	92CT220
1-3/8"	92CT224
1-7/16"	92CT228
1-1/2"	92CT232
1-9/16"	92CT236
1-5/8"	92CT240
1-11/16"	92CT244
1-3/4"	92CT248
1-13/16"	92CT252
1-7/8"	92CT256
1-15/16"	92CT260
2"	92CT264
2-1/16"	-
2-1/8"	92CT308
2-3/16"	-
2-1/4"	92CT316
2-3/8"	92CT324

Annular Cutter Pilot Pin	
Description	Order No.
2" depth of cut pilot pin for 3/4" and above	92CT001
2" depth of cut pilot pin for 9/16" - 11/16"	92CT002



912SE32D



Material	Series	Includes	Order No.
32 pc. Fractional Sizes Display			
Nitro® (Cobalt)	9100N & 9200N	1 each of the following: 1/2, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, and 6 pins.	912N32D
Carbide Tipped*	9100CT & 9200CT	1 each of the following: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, and 6 pins.	912CT32D
High Speed Steel	9100SE & 9200SE	1 each of the following: 1/2, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, and 6 pins.	912SE32D



91SE7S

Material	Series	Includes	Order No.
Annular Cutter Sets, 7 pc.			
Nitro® (Cobalt)	9100N	9/16, 5/8, 11/16, 3/4, 13/16, 15/16, and 1 pin.	91N7S
High Speed Steel	9100SE	9/16, 5/8, 11/16, 3/4, 13/16, 15/16, and 1 pin.	91SE7S

*also available with WALTER 05E annular cutters series

CARBIDE TIPPED ANNULAR CUTTERS

05-D / 05-F / 05-H SERIES

CARBIDE TIPPED

1 1/2", 2", 3" & 4" Depth of Cut
Fractional

Top performance and maximum productivity on hard metals and uneven surfaces!

WALTER Carbide Core Cut annular cutters accurately drill large diameter holes in a variety of hard or abrasive materials such as stainless steel, cast iron, tough alloys or composite materials. They outperform and outlast conventional HSS cutters and allow for higher speed and feed rates while requiring less effort to cut through some of the industry's toughest metals.

3/4" Weldon Shank							
Diameter	1 1/2" cutters	2" cutters	3" cutters	4" cutters	Diameter	30 mm	55 mm
Inches	Order No.	Order No.	Order No.	Order No.	mm	Order No.	Order No.
Use with pilot pin	05-Z 019	05-Z 021	05-Z 018	05-Z 031		05-Z 019	05-Z 021
1/2"	05-D 008	05-D 308			12 mm	05-F 112	05-F 212
9/16"	05-D 009	05-D 309			13 mm	05-F 113	05-F 213
5/8"	05-D 010	05-D 310			14 mm	05-F 114	05-F 214
11/16"	05-D 011	05-D 311			15 mm	05-F 115	05-F 215
					16 mm	05-F 116	05-F 216
					17 mm	05-F 117	05-F 217
Use with pilot pin	05-Z 020	05-Z 022	05-Z 032	05-Z 033		05-Z 020	05-Z 022
3/4"	05-D 012	05-D 312		05-D 812	18 mm	05-F 118	05-F 218
13/16"	05-D 013	05-D 313	05-D 613	05-D 813	19 mm	05-F 119	05-F 219
7/8"	05-D 014	05-D 314			20 mm	05-F 120	05-F 220
15/16"	05-D 015	05-D 315	05-D 615	05-D 815	21 mm	05-F 121	05-F 221
1"	05-D 100	05-D 400	05-D 700	05-D 900	22 mm	05-F 122	05-F 222
1-1/16"	05-D 101	05-D 401	05-D 701	05-D 901	23 mm	05-F 123	05-F 223
1-1/8"	05-D 102	05-D 402			24 mm	05-F 124	05-F 224
1-3/16"	05-D 103	05-D 403			25 mm	05-F 125	05-F 225
1-1/4"	05-D 104	05-D 404			26 mm	05-F 126	05-F 226
1-5/16"	05-D 105	05-D 405			27 mm	05-F 127	05-F 227
1-3/8"	05-D 106	05-D 406			28 mm	05-F 128	05-F 228
1-7/16"	05-D 107	05-D 407			29 mm	05-F 129	05-F 229
1-1/2"	05-D 108	05-D 408			30 mm	05-F 130	05-F 230
1-9/16"	05-D 109	05-D 409			31 mm	05-F 131	05-F 231
1-5/8"	05-D 110	05-D 410			32 mm	05-F 132	05-F 232
1-3/4"	05-D 112	05-D 412			33 mm	05-F 133	05-F 233
1-13/16"	05-D 113	05-D 413			34 mm	05-F 134	05-F 234
1-7/8"	05-D 114	05-D 414			35 mm	05-F 135	05-F 235
1-15/16"	05-D 115	05-D 415			36 mm	05-F 136	05-F 236
2"	05-D 200	05-D 500	05-D 716	05-D 916	37 mm	05-F 137	05-F 237
2-1/16"	05-D 201	05-D 501			38 mm	05-F 138	05-F 238
2-1/8"	05-D 202	05-D 502			39 mm	05-F 139	05-F 239
2-3/16"		05-D 503			40 mm	05-F 140	05-F 240
2-1/4"		05-D 504	05-D 720	05-D 920	41 mm	05-F 141	05-F 241
2-5/16"		05-D 505			42 mm	05-F 142	05-F 242
2-3/8"		05-D 506			43 mm	05-F 143	05-F 243
					44 mm	05-F 144	05-F 244
					45 mm	05-F 145	05-F 245
					46 mm	05-F 146	05-F 246
					47 mm	05-F 147	05-F 247
					48 mm	05-F 148	05-F 248
					49 mm	05-F 149	05-F 249
					50 mm	05-F 150	05-F 250
					51 mm	05-F 151	05-F 251

1-1/4" Weldon Shank				
Use with pilot pin	05-Z 019	05-Z 034	05-Z 035	05-Z 036
2-7/16"		05-D 507		
2-1/2"		05-D 508	05-D 724	05-D 924
2-9/16"		05-D 509	05-D 725	05-D 925
2-5/8"		05-D 510		
2-3/4"		05-D 512	05-D 728	05-D 928
2-7/8"		05-D 514		
3"		05-D 532	05-D 732	05-D 932
3-1/4"		05-D 536	05-D 736	05-D 936
3-1/2"		05-D 540	05-D 740	
3-3/4"		05-D 544	05-D 744	
4"		05-D 548	05-D 748	

Universal Shank		
Dia.	1" cutters	2" cutters
Inches	Order No.	Order No.
Use with pilot pin	05-Z 027	05-Z 021
1/2"	05-H 008	05-H 308
9/16"	05-H 009	05-H 309
5/8"	05-H 010	05-H 310
11/16"	05-H 011	05-H 311
Use with pilot pin	05-Z 028	05-Z 022
3/4"	05-H 012	05-H 312
13/16"	05-H 013	05-H 313
7/8"	05-H 014	05-H 314
15/16"	05-H 015	05-H 315
1"	05-H 100	05-H 400
1-1/16"	05-H 101	05-H 401
1-11/8"	05-H 102	05-H 402
1-13/16"	05-H 103	05-H 403
1-11/4"	05-H 104	05-H 404
1-15/16"	05-H 105	05-H 405
1-13/8"	05-H 106	05-H 406
1-17/16"	05-H 107	05-H 407
1-1/2"	05-H 108	05-H 408



Carbide Core Cut Kits

Material

Highest quality TCT for premium performance
Weldon shank

Includes

1 of each diameter:
9/16", 11/16", 13/16", 15/16", 1",
1-1/16" and pilot pin

Depth of Cut	Item Number
1-3/8" annular cutter kit	05-D 991
2" annular cutter kit	05-D 992

ANNULAR CUTTERS ACCESSORIES



PILOT PINS

Precisely position annular cutters over drilling spot and eject slug after drilling is completed. All WALTER pilot pins are hardened and precision ground to provide the longest life in the industry.



Cutter family	Diameter	Max. drilling depth	Order No.	Std. Pkg.	Std. Ctn.
For use with these cutters					
SST Core Cut and ICECUT™	1/2" – 2 3/8" dia.	1"	05-Z 001	1	10
SST Core Cut and ICECUT™	1/2" – 2 3/8" dia.	2"	05-Z 002	1	10
SST Core Cut and ICECUT™	13/16" – 1 1/16" dia.	3"	05-Z 018	1	10
SST Core Cut and ICECUT™	11/16" – 2" dia.	4"	05-Z 031	1	10
SST Core Cut and ICECUT™	7/16" dia.	1"	05-Z 029	1	10
SST Core Cut and ICECUT™	7/16" dia.	2"	05-Z 030	1	10
2-piece, SST and ICECUT™	11/16" – 2" dia.	3"	05-Z 032	1	10
2-piece, SST and ICECUT™	11/16" – 2" dia.	4"	05-Z 033	1	10
For use with these cutters					
CARBIDE core cutters					
	1/2" – 11/16" dia.	1"	05-Z 027	1	10
	1/2" – 11/16" dia.	1 1/2"	05-Z 019	1	10
	1/2" – 11/16" dia.	2"	05-Z 021	1	10
	3/4" – 1 1/2" dia.	1"	05-Z 028	1	10
	3/4" – 2 3/8" dia.	1 1/2"	05-Z 020	1	10
	3/4" – 2 3/8" dia.	2"	05-Z 022	1	10
	2 7/16" – 4" dia.	2"	05-Z 034	1	10
	13/16" – 1 1/16" dia.	3"	05-Z 018	1	10
	2 7/16" – 4" dia.	3"	05-Z 035	1	10
	2 7/16" – 4" dia.	4"	05-Z 036	1	10



Morse taper shank adaptors with coolant inducer

For use of WALTER annular cutters on drilling units with a Morse taper spindle. Coolant inducer feeds coolant through the pilot pin to increase cutter life.

Morse taper	Order No.	Std. Pkg.	Std. Ctn.
No. 2	05-Z 012	1	10
No. 3	05-Z 013	1	10
No. 3 (with 1 1/4" Weldon)	05-Z 037	1	10
No. 3 Extra Length (with 1 1/4" Weldon)	05-Z 038	1	10



Morse taper shank adaptors without coolant inducer

For use of WALTER annular cutters on drilling units with a Morse taper spindle. Ideal for all drilling machines that are equipped with an external cooling source.

Morse taper	Order No.	Std. Pkg.	Std. Ctn.
No. 2	05-Z 010	1	10
No. 3	05-Z 011	1	10



Fein and Nitto adaptors

For use of WALTER annular cutters on all Fein and Nitto magnetic drills.

Drilling Unit	Order No.	Std. Pkg.	Std. Ctn.
Fein (Adaptor)	05-Z 014	1	10
Fein (Pilot Pin)	05-Z 016	1	10
Nitto (Adaptor)	05-Z 015	1	10
Nitto (Pilot Pin)	05-Z 017	1	10



Extension adaptors

Leverage an arbor adaptor with your WALTER core cutters to drill deeper holes. These durable arbor adaptors allow you to drill up to 4" for a fraction of the price of a full size core cutter.

Extension Length	Description	Order No.	Std. Pkg.	Std. Ctn.
1"	Adaptor	05-Z 023	1	10
	Pilot pin	05-Z 025	1	10
2"	Adaptor	05-Z 024	1	10
	Pilot pin	05-Z 026	1	10

ANNULAR CUTTERS ACCESSORIES

ADAPTERS

Description	EDP No.
Machine Accessories	
1/2" chuck to annular adapter	MA000
Annular Cutter Reduced & Morse Taper Shank Holders	
7/16" thru 2-1/4" Dia. x 1" LOC	RSA001
1/2" thru 2-1/4" Dia. x 2" LOC	RSA002
1/2" thru 2-1/4" Dia. x 3" LOC	RSA003
1/2" thru 2-1/4" Dia. x 4" LOC	RSA004
3/4" Shank Adapters w/ 3 Flats	
2-5/16" thru 4" Dia. x 1" LOC	RSA005
2-5/16" thru 4" Dia. x 2" LOC	RSA006
2-5/16" thru 4" Dia. x 3" LOC	RSA007
2-5/16" thru 4" Dia. x 4" LOC	RSA008
#2 Morse Taper Shank Adapters	
7/16" thru 2-1/4" Dia. x 1" & 2" LOC	MTA001
1/2" thru 2-1/4" Dia. x 3" & 4" LOC	MTA002
#3 Morse Taper Shank Adapters	
7/16" thru 2-1/4" Dia. x 1" & 2" LOC	MTA003
1/2" thru 2-1/4" Dia. x 3" & 4" LOC	MTA004
2-5/16" thru 4" Dia. x 1" & 2" LOC	MTA005
2-5/16" thru 4" Dia. x 3" & 4" LOC	MTA006
#4 Morse Taper Shank Adapters	
2-5/16" thru 4" Dia. x 1" & 2" LOC	MTA007
2-5/16" thru 4" Dia. x 3" & 4" LOC	MTA008



MA000



RSA002



MTA003