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MASONRY FAST & SLOW SPIRAL

Type 215

Fast Spiral, Heavy-Duty Rotary

- Carbide tipped, hardened steel bodies & bright finish.
- These masonry drills are designed with the fast spiral flutes to drill faster in the extra hard masonry products.



FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Qty. per/pack
46000	1/8	3	12
46010	3/16	3	12
46020	3/16	4	12
46040	1/4	4	12
46050	1/4	6	12
46060	5/16x1/4	4	6
46070	5/16x1/4	6	6
46080	3/8x1/4	4	6
46090	3/8x1/4	6	6
46220	3/8	12	6
46380	3/8	18	6
46100	7/16x1/4	4	6
46110	7/16x1/4	6	6
46120	1/2x1/4	4	6
46130	1/2x3/8	6	6
46360	1/2x1/4	6	6
46230	1/2x3/8	12	6
46390	1/2x3/8	18	6
46140	9/16x1/2	6	1
46370	9/16x3/8	6	1
46150	5/8x1/2	6	1
46160	11/16x1/2	6	1
46170	3/4x1/2	6	1
46180	7/8x1/2	6	1
46190	1x1/2	6	1

Type 225

Slow Spiral, Heavy-Duty Rotary

- Carbide tipped, hardened steel bodies & bright finish.
- Fastest, easiest way to drill holes in brick, tile, cement, asbestos, marble, concrete, etc.
- No special equipment needed.
- Use them in any regular electric drill.



FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Qty. per/pack
46240	1/8	2	12
45800	1/8	3	12
46400	1/8	6	12
46250	5/32	3	12
46260	11/64	3	12
45810	3/16	3	12
45820	3/16	4	12
45830	3/16	6	12
46270	13/64	3	12
46280	7/32	4	12
46420	7/32	6	12
46290	1/4	3	12
45840	1/4	4	12
45850	1/4	6	12
46300	9/32x1/4	4	12
46440	9/32x1/4	6	12
45860	5/16x1/4	4	6
45870	5/16x1/4	6	6
46460	5/16	6	6
45880	3/8x1/4	4	6
45890	3/8x1/4	6	6
46480	3/8	6	6
45900	7/16x1/4	4	6
45910	7/16x1/4	6	6
46490	7/16x3/8	6	6
45920	1/2x1/4	4	6
45930	1/2x1/4	6	6
46860	1/2x3/8	6	6
46870	1/2	6	6
45940	9/16x3/8	6	1
45950	5/8x1/2	6	1
46310	5/8x3/8	6	1
45960	11/16x1/2	6	1
45970	3/4x1/2	6	1
46320	13/16x1/2	6	1
45980	7/8x1/2	6	1
45990	1x1/2	6	1
45120	1-1/8x1/2	6	1
45130	1-1/4x1/2	6	1
46340	1-3/8x1/2	6	1
45140	1-1/2x1/2	6	1

SLOW SPIRAL - HEAVY DUTY ROTARY

Type 216

Slow Spiral, Heavy-Duty Rotary

- Carbide tipped, hardened steel bodies & bright finish.
- Fastest easiest way to drill in brick, tile, cement, asbestos, marble, concrete etc.
- No special equipment needed.
- Use them in any electric drill. For Drills shorter than 12" see Type 215 on page 107.

FLUTE LENGTH Maximum standard flute for drills 18 through 48 inches long with 1/4 through 3/4 inch diameter is 16 inches. All drills over 3/4 inch diameter have a maximum standard flute length of 5 1/2 inches.



FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Qty. per/pack
46500	1/8	12	1
46620	1/8	18	1
46510	3/16	12	1
46630	3/16	18	1
46520	7/32	12	1
46640	7/32	18	1
45680	1/4	12	1
45500	1/4	18	1
47200	1/4	24	1
47370	1/4	36	1
46740	1/4	48	1
46530	9/32x1/4	12	1
46650	9/32x1/4	18	1
47210	9/32x1/4	24	1
47380	9/32x1/4	36	1
45690	5/16x1/4	12	1
46540	5/16	12	1
45510	5/16x1/4	18	1
46660	5/16	18	1
47220	5/16	24	1
47390	5/16	36	1
46750	5/16	48	1
45700	3/8x5/16	12	1
46550	3/8	12	1
45520	3/8x5/16	18	1
46670	3/8	18	1
47230	3/8	24	1
47400	3/8	36	1
46760	3/8	48	1
45710	7/16x3/8	12	1
45530	7/16x3/8	18	1
47240	7/16x3/8	24	1
47410	7/16x3/8	36	1
45720	1/2x3/8	12	1
45540	1/2x3/8	18	1
47250	1/2x3/8	24	1
47420	1/2	36	1
46770	1/2	48	1
45730	9/16x3/8	12	1
45550	9/16x3/8	18	1
47260	9/16x3/8	24	1
47430	9/16x1/2	36	1
45740	5/8x1/2	12	1
45560	5/8x1/2	18	1
47270	5/8x1/2	24	1

FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Qty. per/pack
47440	5/8x1/2	36	1
46780	5/8x1/2	48	1
46560	11/16x1/2	12	1
46680	11/16x1/2	18	1
47280	11/16x1/2	24	1
47450	11/16x1/2	36	1
45750	3/4x1/2	12	1
45570	3/4x1/2	18	1
47290	3/4x1/2	24	1
47460	3/4x1/2	36	1
46790	3/4x1/2	48	1
46570	13/16x1/2	12	1
46690	13/16x1/2	18	1
47300	13/16x1/2	24	1
47470	13/16x1/2	36	1
45760	7/8x1/2	12	1
45580	7/8x1/2	18	1
47310	7/8x1/2	24	1
47480	7/8x1/2	36	1
46800	7/8x1/2	48	1
45770	1x1/2	12	1
45590	1x1/2	18	1
47320	1x1/2	24	1
47490	1x1/2	36	1
46810	1x1/2	48	1
46580	1-1/8x1/2	12	1
46700	1-1/8x1/2	18	1
47330	1-1/8x1/2	24	1
47500	1-1/8x1/2	36	1
46820	1-1/8x1/2	48	1
46590	1-1/4x1/2	12	1
46710	1-1/4x1/2	18	1
47340	1-1/4x1/2	24	1
47510	1-1/4x1/2	36	1
46830	1-1/4x1/2	48	1
46600	1-3/8x1/2	12	1
46720	1-3/8x1/2	18	1
47350	1-3/8x1/2	24	1
47520	1-3/8x1/2	36	1
46840	1-3/8x1/2	48	1
46610	1-1/2x1/2	12	1
46730	1-1/2x1/2	18	1
47360	1-1/2x1/2	24	1
47530	1-1/2x1/2	36	1
46850	1-1/2x1/2	48	1

HEAVY DUTY - HIGH PERFORMANCE

Type 214

All Purpose, Heavy-Duty

- Carbide tipped, hardened steel bodies (3/8" diameter and smaller), 6% cobalt carbide grade, lifetime tip warranty against braze failure, and slow spiral.
- Black surface finish with bronze colored tip.
- Recommended for both impact and rotary use.
- Especially suited for drilling **2500-5000 psi** concrete.



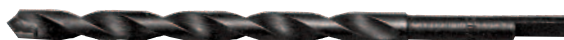
FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Qty. per/pack
94600	1/8	3	12
94610	3/16	4	12
94620	3/16	6	12
94640	1/4	4	12
94650	1/4	6	12
94660	1/4	13	1
94670	5/16x1/4	4	6
94680	5/16x1/4	6	6
94700	3/8x1/4	4	6
94710	3/8x1/4	6	6
94720	3/8x1/4	13	1
94730	3/8x3/8	6	6
94740	3/8x3/8	13	1
94750	7/16x1/4	4	6
94760	7/16x1/4	6	6
94770	7/16x1/4	13	1
94810	1/2x1/4	6	6
94820	1/2x1/4	13	1
94830	1/2x3/8	6	6
94840	1/2x3/8	13	1
94860	9/16x3/8	13	1
94870	9/16x1/2	6	1
94880	9/16x1/2	13	1
94890	5/8x3/8	6	1
94910	5/8x1/2	6	1
94920	5/8x1/2	13	1

Type 217

High-Performance - Tapcon™ Style

- 217 Series high performance drills are designed for use in the Tapcon™ style anchoring systems used for setting masonry anchor screws with self-tapping threads.
- The 217 series fits most standard installation tools.
- Constructed of hardened alloy steel and a close tolerance carbide tip which provide long life and superior performance.



FRACTIONAL

Part No.	Diameter Inches	Overall Length Inches	Qty. per/pack
19910	5/32	3-1/2	12
19920	5/32	4-1/2	12
19930	5/32	5-1/2	12
19940	3/16	3-1/2	12
19950	3/16	4-1/2	12
19960	3/16	5-1/2	12
19970	3/16	6-1/2	12
19980	3/16	7-1/2	12

TIPS



Drill bit storage solutions can be found in the Displays, Cabinets & Index Sections.
Turn to Pages 139 - 152

PERCUSSION CORE DRILLS SPIRAL FLUTE

Type 605

Multiple Insert - Spiral Flute Carbide Tipped

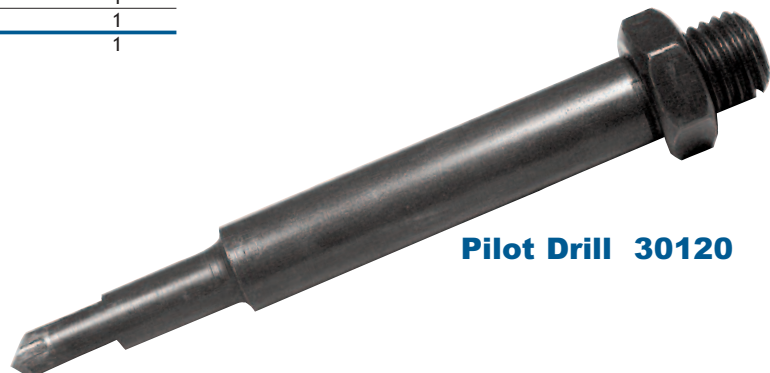
These rugged Percussion Core Bits are designed for the heavy-duty hammer-action electric tools. Special carbide tips used are designed for continuous hammering action and matched with extra tough alloy bodies to give maximum drilling life under the most demanding conditions.

- Bodies are drilled and threaded to receive 3/4-10 threaded shank
- Tough alloy body's for long life
- Deep spirals for fast dust removal & reduced heat build-up
- Specially engineered percussion carbide tips

These core bits can also be utilized for heavy rotary drilling, using standard rotary core drill shanks. They can also be used for rotary drilling in diamond core machines by using a conversion adapter.

TYPE 605

Part No.	Diameter Inches	Body Length Inches	Qty. per/pack
30000	1"	6	1
30010	1-1/8	6	1
30020	1-1/4	6	1
30030	1-1/2	6	1
30040	1-3/4	6	1
30050	2"	6	1
30060	2-1/2	6	1
30070	2-3/4	6	1
30080	3"	6	1
30090	3-1/2	6	1
30100	4"	6	1
30110	4-1/2	6	1
30120	Pilot Drill	-----	1



The **Percussion Core Drill Starter Bit** is interchangeable with all type 605 Percussion Core Drills. The Starter Bit is used to make the initial starting groove and then removed before drilling is continued. To be used only with 1-1/2" diameter and larger core drills.

IMPACT HAMMER DRILLS - SLOT DRIVE

Type 606

"Slot Drive System"

- These impact hammer drills are designed to fit all rotary hammers that specify an SDS shank.
- Positive drive slots deliver maximum torque and hammering energy for faster drilling.
- Performance of these drills is excellent over a wide variety of masonry applications



Part No.	Diameter Inches	Overall Length Inches	Drilling Depth Inches	No. per/pack	Part No.	Diameter Inches	Overall Length Inches	Drilling Depth Inches	No. per/pack
58990	3/16	4	2-1/2	1	33160	1/2	18	16-7/8	1
33000	3/16	6	4-1/2	1	33170	9/16	6	4-7/8	1
33010	1/4	4	2-1/2	1	33180	9/16	9	7-7/8	1
33020	1/4	6	4-1/2	1	33190	9/16	12	10-7/8	1
33030	5/16	6	4-1/2	1	33200	9/16	18	16-7/8	1
33040	5/16	9	7-1/2	1	33210	5/8	6	4-7/8	1
33050	5/16	12	10-1/2	1	33220	5/8	9	7-7/8	1
33060	3/8	6	4-1/2	1	33230	5/8	12	10-7/8	1
33070	3/8	9	7-1/2	1	33240	5/8	18	16-7/8	1
33080	3/8	12	10-1/2	1	33260	3/4	9	7-1/4	1
33090	3/8	20	18	1	33270	3/4	12	10-1/4	1
33100	7/16	6	4-1/2	1	33280	3/4	18	16-1/4	1
33110	7/16	12	10-1/2	1	33310	7/8	9	7-1/4	1
33120	7/16	18	16-1/2	1	33320	7/8	12	10-1/4	1
33130	1/2	6	4-7/8	1	33330	7/8	18	16-1/4	1
33140	1/2	9	7-7/8	1	33340	1	12	10-1/4	1
33150	1/2	12	10-7/8	1	33350	1	18	16-1/4	1

DRILL FITS:

- AEG PH 210, PHE 16RL & PHE 19 RL, 26
- B&D 5014, 5016-09
- Bosch 11207, 11210VSR, 11212VSR, 11215 DVSR & 11213RK
- Hilti TE 10, 12, 14, 15, 17 & 22
- Hitachi VRT-22A, VA 16 & DH 22
- Kango 285, 327, 422 & 426
- Makita HR 2511 & HR 1821
- Metabo 6020, 6026 & 6018
- Phillips 555 & 715
- Porter Cable 639
- Ramset 425
- Ryobi ED-211
- Skil 1740
- Milwaukee 5366, 5368 & 5371
- * SDS Plus

SPLINE BITS - HEAVY DUTY

Type 614, 615 & 616

Spline Bits - Heavy-Duty

Percussion grade carbide tip with extra strength shank for the most demanding hammer drill applications.

Heavy-Duty shanks to fit the following popular hammer drills:

- AEG PH-350, 350D, 350HD, 240D & 38, PHD38 & 26
- B & D 5041, 5042, 5043 & 5044(Macho)
- Bosch 11202, 11203, 11204, 11205, 11209 & 11214
- Hitachi DH 50SB, DH 38YA, 38YE & 38YF
- Kango 430S, 501S, 637S, 638S & 950S
- Makita HR 3851
- Metabo RH66, RH99, RH99X & 1129
- Milwaukee 5343, 5344, 5347 & 5348
- Phillips 747-2
- Ramset 442, 445 & 475
- Ryobi ED 382P & ER 382
- Wacker 11/110



Type 614



Type 615



Type 616

11" & 17" lengths are packaged in plastic hang up tubes.

TYPE 614			
Part No.	Dia. Inches	Drilling Depth Inches	Overall Length Inches
47540	3/8	6	11
47550	1/2	6	11
47560	5/8	6	11
47570	3/4	6	11
47580	1	6	11
47590	1-1/8	6	11
Package quantity is 1.			

TYPE 615			
Part No.	Dia. Inches	Drilling Depth Inches	Overall Length Inches
47600	3/8	12	17
47610	1/2	12	17
47620	9/16	12	17
47630	5/8	12	17
47640	11/16	12	17
47650	3/4	12	17
47660	7/8	12	17
47670	1	12	17
47680	1-1/8	12	17
47690	1-1/4	12	17
47700	1-1/2	12	17
Package quantity is 1.			

TYPE 616			
Part No.	Dia. Inches	Drilling Depth Inches	Overall Length Inches
47710	1/2	18	23
47720	5/8	18	23
47730	3/4	18	23
47740	7/8	18	23
47750	1	18	23
47760	1-1/8	18	23
47770	1-1/4	18	23
47780	1-1/2	18	23
Package quantity is 1.			

IMPACT HAMMER DRILLS - EXTRA HEAVY DUTY

Type 609

Extra Heavy-Duty

- Straight shank impact hammer bit is designed for use in the hard hitting impact tools using a Jacobs type chuck.
- These extra tough bits will give outstanding performance in the roughest drilling applications.
- The specially heat treated alloy steel body, coupled with extra tough percussion tips will stay sharp longer, and can be resharpened many times for extra long life. 6" and shorter lengths are carded.

Over 6" lengths are packaged in plastic hang up tubes



FRACTIONAL

Part No.	Diameter Inches	O.A.L.	Shank Diameter Inches	No. per/pack	Part No.	Diameter Inches	O.A.L.	Shank Diameter Inches	No. per/pack
30450	1/8	2	1/8	1	30920	1/2	18	3/8	1
30470	5/32	3	5/32	1	30660	9/16	6	3/8	1
30460	11/64	3	11/64	1	30830	9/16	12	3/8	1
30480	3/16	3	3/16	1	30930	9/16	18	3/8	1
30490	3/16	4	3/16	1	30670	5/8	6	1/2	1
30500	3/16	6	3/16	1	30840	5/8	12	1/2	1
30510	13/64	3	13/64	1	30940	5/8	18	1/2	1
30520	7/32	4	7/32	1	30680	11/16	6	1/2	1
30530	1/4	4	1/4	1	30850	11/16	12	1/2	1
30540	1/4	6	1/4	1	30950	11/16	18	1/2	1
30780	1/4	12	1/4	1	30690	3/4	6	1/2	1
30550	9/32	4	1/4	1	30860	3/4	12	1/2	1
30560	5/16	4	1/4	1	30960	3/4	18	1/2	1
30580	5/16	6A	1/4	1	30700	13/16	6	1/2	1
30590	5/16	6B	5/16	1	30710	27/32	6	1/2	1
30790	5/16	12	5/16	1	30720	7/8	6	1/2	1
30570	3/8	4	1/4	1	30870	7/8	12	1/2	1
30600	3/8	6A	1/4	1	30970	7/8	18	1/2	1
30610	3/8	6B	3/8	1	30730	1	6	1/2	1
30800	3/8	12A	5/16	1	30880	1	12	1/2	1
30810	3/8	12B	3/8	1	30440	1	18	1/2	1
30900	3/8	18A	5/16	1	30740	1-1/8	6	1/2	1
30910	3/8	18B	3/8	1	30890	1-1/8	12	1/2	1
30620	7/16	6	3/8	1	30430	1-1/8	18	1/2	1
30630	15/32	6	3/8	1	30750	1-1/4	6	1/2	1
30640	1/2	6A	1/4	1	30760	1-3/8	6	1/2	1
30650	1/2	6B	3/8	1	30770	1-1/2	6	1/2	1
30820	1/2	12	3/8	1					

PERCUSSION BITS A-TAPER

Type 607

Heavy-Duty A-Taper

- Percussion grade carbide tip and strong alloy steel body
- These taper shank bits are excellent performers in all types of masonry drilling applications.
- The bits are designed to fit all standard taper chucks.



FRACTIONAL 3/16" - 9/16"

Part No.	Diameter Inches	Overall Length Inches	Drilling Depth Inches	No. per/pack
31000	3/16	4	2-3/4	1
31040	1/4	6	4-3/4	1
31050	9/32	6	4-3/4	1
31020	5/16	4	2-3/4	1
31060	5/16	6	4-3/4	1
31200	5/16	9	7-1/2	1
31340	5/16	12	10-3/4	1
31030	3/8	4	2-3/4	1
31070	3/8	6	4-3/4	1
31210	3/8	9	7-1/2	1
31350	3/8	12	10-3/4	1
31080	7/16	6	4-3/4	1
31220	7/16	9	7-1/2	1
31090	15/32	6	4-3/4	1
31230	15/32	9	7-1/2	1
31100	1/2	6	4-3/4	1
31240	1/2	9	7-1/2	1
31360	1/2	12	10-3/4	1
31440	1/2	19	17-3/4	1
31110	17/32	6	4-3/4	1
31250	17/32	9	7-1/2	1
31120	9/16	6	4-3/4	1
31260	9/16	9	7-1/2	1
31370	9/16	12	10-3/4	1

FRACTIONAL 9/16" - 7/8"

Part No.	Diameter Inches	Overall Length Inches	Drilling Depth Inches	No. per/pack
31450	9/16	19	17-3/4	1
31130	5/8	6	4-3/4	1
31270	5/8	9	7-1/2	1
31380	5/8	12	10-3/4	1
31460	5/8	19	17-3/4	1
31140	21/32	6	4-3/4	1
31280	21/32	9	7-1/2	1
31150	11/16	6	4-3/4	1
31290	11/16	9	7-1/2	1
31390	11/16	13	11	1
31470	11/16	19	17-3/4	1
31160	3/4	5	4-3/4	1
31300	3/4	9	7-1/2	1
31400	3/4	13	11	1
31480	3/4	19	17-3/4	1
31170	13/16	6	4-3/4	1
31320	13/16	9	7-1/2	1
31410	13/16	13	11	1
31180	27/32	6	4-3/4	1
31310	27/32	9	7-1/2	1
31420	27/32	13	11	1
31190	7/8	6	4-3/4	1
31330	7/8	9	7-1/2	1
31430	7/8	13	11	1

REBAR CUTTER - BITSAVER™

Type 612

Rebar Cutter - Bitsaver™

- The Bitsaver™ Rebar Cutter is the answer to your damaged impact hammer bit problem.
- The rebar cutter is to be used in the rotary drilling mode only.
- Using the impact hammer mode will damage the cutter.
- The Bitsaver cutter can be used in any 1/2" capacity drill motor with a rated no-load speed of **400 to 1200 RPM**.
- Includes most hammer drills with 3-jawed chucks.



Bitsaver™ Drilling Process

Drill into the concrete with an impact or rotary hammer carbide masonry bit. When the bit comes into contact with reinforcing bar or wire mesh, stop immediately.

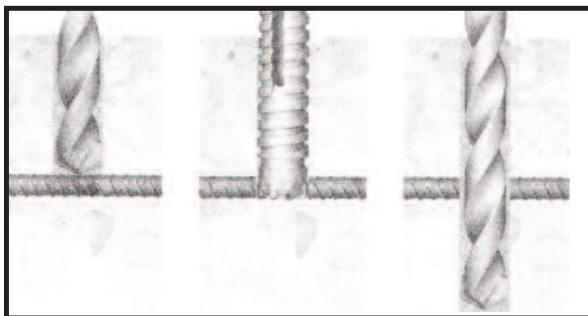
Continued drilling will most likely damage the carbide tip. Use a

1/2" rotary drill motor or switch the hammer drill into rotary only mode.

The Bitsaver cutter is inserted into the 3 jawed chuck and then placed into the hole with the rebar or mesh obstruction.

Drill using constant

and even pressure until you have cut through the rebar or wire mesh. Return to the original masonry bit and hammer drill after you have finished cutting the rebar or mesh and have removed the debris from the hole.



Part No.	Diameter Inches	Overall Length Inches	No. pe/pack
45211	1/2	12	1
45221	9/16	12	1
45231	5/8	12	1
45241	11/16	12	1
45251	3/4	12	1
45261	7/8	12	1
45271	1"	12	1
45281	1-1/8	12	1
45291	1-1/4	12	1
45301	1-3/8	12	1
45311	1-1/2	12	1
45321	1-3/4	12	1
45331	2"	12	1
45341	2-1/2	12	1
45351	3"	12	1

CARBIDE TIPPED WITH SPEAR POINT

Type 626

Carbide Tipped with Spear Point



- These drills are designed for drilling in glass, tile, mirrors, and ceramic materials.
- The spear point allows clean penetration with reduced cutting pressure and breakout.
- The carbide tip insures long tool life. Fits drills with 3/8" or larger chucks. Individually packaged in clear hanging tubes.

Part No.	Size Inches
56510	1/8
56520	5/32
56530	3/16
56540	1/4
56550	5/16
56560	3/8
56570	1/2

Type 626 SET Part # 56580

Convenient set includes four commonly used sizes;
1/8, 3/16, 1/4 & 5/16