

Rotary Hammer Drills & Accessories

armeg



PROMAC®

Tools that last... longer



Price List - June 2014



JPM
TOOLS

IMPORTER • DISTRIBUTOR

Tile Cutters



Diamond Crowns

PTC2 Diamond Crowns	9
PTC2 Diamond Crown Accessories	9
PTC2 Diamond Crown Starter Kits	10

Porcelain Tile Cutters

Porcelain Tile Cutters	9
------------------------	---

Electric Hammer Tools



Electric Hammer Tools

SDS Series	16
SDS Max Series	16
K900 Series	17
PH65 Series	17

Drill Holders



Drill Holders

K Taper Drill Holders	18
Quick Fit Drill Holders	18

JPM TOOLS Pty Ltd reserve the right to change pricing and/or product specifications without notice.

Masonry Drill Bits



A Taper
 A Taper Masonry Drill Bits 8



K Taper
 K Taper Masonry Drill Bits 7
 K Taper Drill Extensions 7
 K Taper Drill Holders 18



SDS Max
 SDS Max Masonry Drill Bits 6
 SDS Max Accessories 16



SDS T3 Multifit
 SDS T3 Multifit Masonry Drill Bits 4-5
 SDS T3 Accessories 16

Core Drills



Heavy Duty Core Drills
 Heavy Duty Core Drills 11
 Heavy Duty Core Drill Adaptors & Accessories 11

Light Weight Core Drills
 Light Weight Core Drills 12
 Light Weight Core Drill Adaptors & Accessories 12



Dry Diamond Core Drills
 Dry Diamond Core Drills 14
 Dry Diamond Core Drill Adaptors & Accessories 15

Deep Core Light Weight Drills
 Deep Core Light Weight Drills 14
 Deep Core Light Weight Drill Adaptors & Accessories 15

SDS T3 Masonry Drill Bits

SDS T3 Multifit shank sizes will fit all SDS Machines including all Ramset and Hilti machines. EVO Plus is the latest carbide tip technology leads to increased penetration rates and more efficient cutting. 'Point thinning' aids start up and reduces wander. Produces clean and accurate holes for optimum fit of fixings. Tip technology enables user to drill into multiple materials. Precision machining produces optimum support behind the seated tip, also ensuring precise tip alignment resulting in hole concentricity. Copper brazing to 1100° gives ultimate bond between body and tip. Speed of penetration and efficiency of cut enables significant increase in number of holes per cordless battery charge. Up to 25% more holes can be drilled with the same charge. Newly evolved grade of carbide used ensures extended tool life and maximises number of holes drilled. Flute geometry is designed to cope with the maximum amount of spoil removal with the core width being the optimum cross sectional area. Combination of flute and tip geometry produces truer and rounder holes. Extra long 1000mm are available to broaden the appeal and prove versatile for most deep masonry drilling applications.

NB: When using drill bits 450mm long and over, a pilot hole using a shorter length bit of the same diameter must be drilled first.



PRODUCT GROUP: A1

Part Number	Size (mm)	Working Length (mm)	Description	List Price (\$)	Barcode
S+4x110	4x110	50	T3 Multifit Masonry Drill	14.89	5022081012005
S+5x110	5x110	50	T3 Multifit Masonry Drill	11.03	5022081012012
S+5x160	5x160	100	T3 Multifit Masonry Drill	12.13	5022081012036
S+5x210	5x210	150	T3 Multifit Masonry Drill	18.74	5022081012043
S+5.5x110	5.5x110	50	T3 Multifit Masonry Drill	11.03	5022081012050
S+5.5x160	5.5x160	100	T3 Multifit Masonry Drill	12.13	5022081012067
S+5.5x210	5.5x210	150	T3 Multifit Masonry Drill	18.74	5022081012074
S+6x110	6x110	50	T3 Multifit Masonry Drill	11.03	5022081012081
S+6x160	6x160	100	T3 Multifit Masonry Drill	12.13	5022081012098
S+6x210	6x210	150	T3 Multifit Masonry Drill	18.74	5022081012104
S+6.5x110	6.5x110	50	T3 Multifit Masonry Drill	11.03	5022081012111
S+6.5x160	6.5x160	100	T3 Multifit Masonry Drill	12.13	5022081012128
S+6.5x210	6.5x210	150	T3 Multifit Masonry Drill	18.74	5022081012876
S+6.5x400	6.5x400	350	T3 Multifit Masonry Drill	54.02	5022081012753
S+7x160	7x160	100	T3 Multifit Masonry Drill	12.13	5022081012142
S+8x110	8x110	50	T3 Multifit Masonry Drill	12.13	5022081012166
S+8x160	8x160	100	T3 Multifit Masonry Drill	14.33	5022081012173
S+8x210	8x210	150	T3 Multifit Masonry Drill	17.64	5022081012180
S+8x260	8x260	200	T3 Multifit Masonry Drill	22.05	5022081012197
S+8x450	8x450	400	T3 Multifit Masonry Drill	41.90	5022081012777
S+10x110	10x110	50	T3 Multifit Masonry Drill	15.44	5022081012227
S+10x160	10x160	100	T3 Multifit Masonry Drill	16.54	5022081012234
S+10x210	10x210	150	T3 Multifit Masonry Drill	19.85	5022081012241
S+10x260	10x260	200	T3 Multifit Masonry Drill	25.36	5022081012258
S+10x450	10x450	400	T3 Multifit Masonry Drill	46.31	5022081012272
S+12x160	12x160	100	T3 Multifit Masonry Drill	19.85	5022081012319
S+12x210	12x210	150	T3 Multifit Masonry Drill	23.15	5022081012326
S+12x250	12x250	200	T3 Multifit Masonry Drill	27.56	5022081012333
S+12x450	12x450	400	T3 Multifit Masonry Drill	46.31	5022081012357
S+12x600	12x600	550	T3 Multifit Masonry Drill	77.18	5022081012364
S+12x1000	12x1000	950	T3 Multifit Masonry Drill	99.23	5022081012807

SDS T3 Masonry Drill Bits (continued)

- * Latest carbide tip technology - increased penetration and efficiency of cut.
- * Ideal for cordless drills with increased numbers of holes per battery charge.
- * Grade of carbide ensures extended tool life and number of holes drilled.
- * Clean and accurate holes in multiple material types.
- * Proven flute geometries enable maximum spoil removal.
- * Combination of flute and tip geometry produces truer and rounder holes.
- * Copper brazed with optimum tip support.
- * High impact point of sale units available.



PRODUCT GROUP: A1

Part Number	Size (mm)	Working Length (mm)	Description	List Price (\$)	Barcode
S+13x250	13x250	200	T3 Multifit Masonry Drill	29.77	5022081012388
S+13x450	13x450	400	T3 Multifit Masonry Drill	49.61	5022081012418
S+14x250	14x250	200	T3 Multifit Masonry Drill	31.97	5022081012449
S+14x450	14x450	400	T3 Multifit Masonry Drill	51.82	5022081012463
S+14x600	14x600	550	T3 Multifit Masonry Drill	82.69	5022081012470
S+14x1000	14x1000	950	T3 Multifit Masonry Drill	104.74	5022081012814
S+15x250	15x250	200	T3 Multifit Masonry Drill	44.10	5022081012500
S+16x200	16x200	150	T3 Multifit Masonry Drill	38.59	5022081012531
S+16x300	16x300	250	T3 Multifit Masonry Drill	43.00	5022081012548
S+16x450	16x450	400	T3 Multifit Masonry Drill	55.13	5022081012555
S+16x600	16x600	550	T3 Multifit Masonry Drill	82.69	5022081012562
S+16x1000	16x1000	950	T3 Multifit Masonry Drill	121.28	5022081012821
S+18x250	18x250	200	T3 Multifit Masonry Drill	57.33	5022081012609
S+18x450	18x450	400	T3 Multifit Masonry Drill	77.18	5022081012616
S+18x600	18x600	550	T3 Multifit Masonry Drill	99.23	5022081012890
S+18x1000	18x1000	950	T3 Multifit Masonry Drill	148.84	5022081012838
S+20x250	20x250	200	T3 Multifit Masonry Drill	71.66	5022081012654
S+20x450	20x450	400	T3 Multifit Masonry Drill	83.79	5022081012678
S+20x600	20x600	550	T3 Multifit Masonry Drill	132.30	5022081012906
S+22x250	22x250	200	T3 Multifit Masonry Drill	82.69	5022081012685
S+22x450	22x450	400	T3 Multifit Masonry Drill	104.74	5022081012692
S+24x250	24x250	200	T3 Multifit Masonry Drill	98.12	5022081012708
S+24x450	24x450	400	T3 Multifit Masonry Drill	132.30	5022081012715
S+25x250	25x250	200	T3 Multifit Masonry Drill	104.74	5022081012722
S+25x450	25x450	400	T3 Multifit Masonry Drill	142.22	5022081012739
S+25x600	25x600	550	T3 Multifit Masonry Drill	192.94	5022081012913
S+26x250	26x250	200	T3 Multifit Masonry Drill	110.25	5022081012746
S+26x450	26x450	400	T3 Multifit Masonry Drill	148.84	5022081012753

SDS Max Masonry Drill Bits



SINGLE TIPPED (12-15mm) - Armeg's proven single tip design, combined with twin flutes, provides rapid penetration and a very cost effective method of producing larger diameter holes. Reduced flute lengths on select diameters are ideal for fixings applications where machine power is transmitted in the most efficient manner to maximise drilling performance.

CROSS HEAD (16-40mm) - Patent protected, cross head design hammer drills provide a combination of smoother drilling and prolonged life to give users outstanding performance. Design features, such as co-planer faceting and deep clearways, maximise spoil removal. Four carbide cutting edges rapidly penetrate the hardest of masonry materials with a smoother action and a prolonged life expectancy with high penetration rates.

PRODUCT GROUP: A2



Part Number	Size (mm)	Working Length (mm)	Description	List Price (\$)	Barcode
MAX12x390	12x390	250	SDS Max Single Head	56.23	5022081019004
MAX12x540	12x540	400	SDS Max Single Head	74.97	5022081019011
MAX13x390	13x390	250	SDS Max Single Head	60.64	5022081019028
MAX13x540	13x540	400	SDS Max Single Head	82.69	5022081019035
MAX14x390	14x390	250	SDS Max Single Head	62.84	5022081019042
MAX14x540	14x540	400	SDS Max Single Head	78.28	5022081019059
MAX15x390	15x390	250	SDS Max Single Head	66.15	5022081009066
MAX15x540	15x540	400	SDS Max Single Head	72.00	5022081009080
MAX16x390	16x390	250	SDS Max Cross Head	68.36	5022081019080
MAX16x540	16x540	400	SDS Max Cross Head	79.38	5022081019097
MAX16x920	16x920	770	SDS Max Cross Head	157.66	5022081009400
MAX18x390	18x390	250	SDS Max Cross Head	88.20	5022081019103
MAX18x540	18x540	400	SDS Max Cross Head	93.71	5022081019110
MAX19x390	19x390	250	SDS Max Cross Head	90.41	5022081009127
MAX19x540	19x540	400	SDS Max Cross Head	93.71	5022081009134
MAX20x370	20x370	250	SDS Max Cross Head	92.61	5022081009141
MAX20x520	20x520	400	SDS Max Cross Head	93.71	5022081019158
MAX20x920	20x920	800	SDS Max Cross Head	168.68	5022081019165
MAX22x370	22x370	250	SDS Max Cross Head	93.71	5022081019172
MAX22x520	22x520	400	SDS Max Cross Head	112.46	5022081019189
MAX22x920	22x920	800	SDS Max Cross Head	170.89	5022081019196
MAX24x370	24x370	250	SDS Max Cross Head	108.05	5022081009202
MAX24x520	24x520	400	SDS Max Cross Head	115.76	5022081019219
MAX25x370	25x370	250	SDS Max Cross Head	98.12	5022081019226
MAX25x520	25x520	400	SDS Max Cross Head	121.28	5022081019233
MAX25x920	25x920	800	SDS Max Cross Head	191.84	5022081019240
MAX26x370	26x370	250	SDS Max Cross Head	124.58	5022081019257
MAX26x520	26x520	400	SDS Max Cross Head	136.71	5022081019264
MAX28x370	28x370	250	SDS Max Cross Head	163.17	5022081019271
MAX28x570	28x570	450	SDS Max Cross Head	177.50	5022081019288
MAX30x370	30x370	250	SDS Max Cross Head	175.30	5022081019295
MAX30x570	30x570	450	SDS Max Cross Head	186.32	5022081019301
MAX32x370	32x370	250	SDS Max Cross Head	176.40	5022081019318
MAX32x570	32x570	450	SDS Max Cross Head	198.45	5022081019325
MAX32x920	32x920	800	SDS Max Cross Head	297.68	5022081009332
MAX35x570	35x570	450	SDS Max Cross Head	255.78	5022081019356
MAX38x570	38x570	450	SDS Max Cross Head	275.63	5022081019370

K Taper Masonry Drill Bits

Flexible and cost effective method of drilling in most masonry materials and concrete. From 12mm to 50mm the range is extensive with lengths ranging from 200mm to 900mm. When combined with a broad range of drill holders, the K taper system becomes extremely versatile and can be used in any electro-pneumatic drilling machine, from SDS Max to Spline, Kango and Wacker.



PRODUCT GROUP: A2

Part Number	Size (mm)	Working Length (mm)	Description	List Price (\$)	Barcode
K12x200	12x200	150	K Taper Masonry Drill	35.28	5022081006004
K12x400	12x400	350	K Taper Masonry Drill	51.27	5022081006011
K13x200	13x200	150	K Taper Masonry Drill	35.84	5022081006028
K13x400	13x400	350	K Taper Masonry Drill	54.02	5022081006035
K14x200	14x200	150	K Taper Masonry Drill	36.94	5022081006042
K14x400	14x400	350	K Taper Masonry Drill	55.13	5022081006059
K16x250	16x250	200	K Taper Masonry Drill	41.90	5022081006103
K16x400	16x400	350	K Taper Masonry Drill	56.23	5022081006110
K18x250	18x250	200	K Taper Masonry Drill	45.76	5022081006158
K18x400	18x400	350	K Taper Masonry Drill	58.99	5022081006165
K18x600	18x600	550	K Taper Masonry Drill	88.20	5022081006172
K20x250	20x250	200	K Taper Masonry Drill	47.96	5022081006219
K20x400	20x400	350	K Taper Masonry Drill	62.84	5022081006226
K22x250	22x250	200	K Taper Masonry Drill	56.23	5022081006240
K22x400	22x400	350	K Taper Masonry Drill	69.46	5022081006257
K24x400	24x400	350	K Taper Masonry Drill	78.28	5022081006288
K25x250	25x250	200	K Taper Masonry Drill	61.74	5022081006301
K25x400	25x400	350	K Taper Masonry Drill	79.38	5022081006318
K25x600	25x600	450	K Taper Masonry Drill	104.74	5022081006325
K25x900	25x900	850	K Taper Masonry Drill	154.35	5022081006332
K26x400	26x400	350	K Taper Masonry Drill	98.12	5022081006356
K28x400	28x400	350	K Taper Masonry Drill	109.70	5022081006370
K30x400	30x400	350	K Taper Masonry Drill	115.76	5022081006400
K32x400	32x400	350	K Taper Masonry Drill	122.93	5022081006431
K35x400	35x400	350	K Taper Masonry Drill	149.94	5022081006486
K38x400	38x400	350	K Taper Masonry Drill	174.20	5022081006516
K40x400	40x400	350	K Taper Masonry Drill	222.71	5022081006554
K50x400	50x400	350	K Taper Masonry Drill	297.68	5022081006608

K Taper Drill Extension

Extends drilling depth with K Taper drills over 32mm diameter.



Part Number	Overall Length(mm)	Description	List Price (\$)	Barcode
E400K	400	K Taper Drill Extension	85.05	5022081003300

A Taper Masonry Drill Bits

Lengths over 150mm can be used as pilot drills for Deep Core Lightweight Drills and Dry Diamond Core Drills.



PRODUCT GROUP: A2

Part Number	Size (mm)	Working Length (mm)	Description	List Price (\$)	Barcode
A8x150	8x150	100	A Taper Masonry Drill	20.40	5022081001122
A10x150	10x150	100	A Taper Masonry Drill	20.95	5022081001160
A10x225	10x225	175	A Taper Masonry Drill	23.15	5022081001177
A10x300	10x300	250	A Taper Masonry Drill	36.38	5022081001184
A10x400	10x400	350	A Taper Masonry Drill	37.49	5022081001207

Porcelain Tile Cutters

Save time, save money – a drilling solution! No more time wasted trying to drill fixing holes into porcelain tiles – the new PTC drill bit range is the solution to this difficult application. PTC’s will drill through Class 5 tiles (PEI) and most domestic and industrial wall and floor tiles. PTC’s will also drill through a wide range of hard to penetrate materials such as granite, marble and ceramics. PTC’s specifically designed tip profile reduces wander and slip at start of drilling. Patent pending combination of P100 carbide and uniquely ground tip geometry enables the product to penetrate the hardest of materials efficiently and repeatedly. The drills have fluteless bodies and are suitable for 3 Jaw Chuck (plain shank) rotary drills. Each porcelain tile cutter comes complete with masonry drill and is supplied in a reusable case.



PRODUCT GROUP: A2

Part Number	Description	List Price (\$)	Barcode
CTCP05.0	5mm x 100mm Plain Shank Porcelain Tile Cutter	73.87	5022081024374
CTCP06.0	6mm x 100mm Plain Shank Porcelain Tile Cutter	73.87	5022081024381
CTCP06.5	6.5mm x 100mm Plain Shank Porcelain Tile Cutter	74.42	5022081024398
CTCP07.0	7mm x 100mm Plain Shank Porcelain Tile Cutter	78.28	5022081024404
CTCP08.0	8mm x 100mm Plain Shank Porcelain Tile Cutter	82.14	5022081024411
CTCP10.0	10mm x 100mm Plain Shank Porcelain Tile Cutter	92.61	5022081024824

PTC2 Diamond Crowns

PTC Diamond crown cores are a blend of tungsten and diamond for drilling porcelain, marble and ceramic tiles. Extremely durable, they will last up to 1000 holes in porcelain. Small diameter crowns require a water feed adaptor, drive guide and water feed pressure pump. The large diameter crowns can be purchased in a starter set, which includes all necessary components except the water feed pressure pump. For single large diameter crown purchases, it is necessary to purchase an 8mm pilot drill, a water feed adaptor and a water feed pressure pump.

PRODUCT GROUP: A2

Part Number	Diameter (mm)	Core Depth (mm)	Description	List Price (\$)	Barcode
PTC05.0CRM	5	25	PTC Diamond Crown - Small	130.65	5022081024855
PTC06.0CRM	6	25	PTC Diamond Crown - Small	130.65	5022081024862
PTC06.5CRM	6.5	25	PTC Diamond Crown - Small	130.65	5022081024879
PTC07.0CRM	7	25	PTC Diamond Crown - Small	132.30	5022081024886
PTC08.0CRM	8	25	PTC Diamond Crown - Small	137.81	5022081024893
PTC10.0CRM	10	25	PTC Diamond Crown - Small	137.81	5022081024909
PTC13CR	13	25	PTC Diamond Crown - Large	137.81	5022081025463
PTC19CR	19	25	PTC Diamond Crown - Large	147.19	5022081024701
PTC26CR	26	25	PTC Diamond Crown - Large	171.44	5022081024718
PTC36CR	36	25	PTC Diamond Crown - Large	185.22	5022081024725
PTC44CR	44	25	PTC Diamond Crown - Large	216.09	5022081024732
PTC52CR	52	25	PTC Diamond Crown - Large	252.47	5022081027825
PTC70CR	70	25	PTC Diamond Crown - Large	283.90	5022081027832
PTC90CR	90	25	PTC Diamond Crown - Large	347.29	5022081027849
PTC112CR	112	25	PTC Diamond Crown - Large	472.43	5022081027856

PTC2 Diamond Crown Accessories

PRODUCT GROUP: A2

Part Number	Description	List Price (\$)	Barcode
PTCPAD5-10	Armeg PTC2 Water Feed Adaptor 5-10mm	95.92	5022081025487
PTCPAD	Armeg PTC2 Water Feed Adaptor 13-112mm	120.17	5022081024749
PTCMULTIGP25	Armeg PTC Drive Guide (5-10mm) Bag of 25	6.07	5022081025906
PTCWFLAMP	Armeg Water Feed Pipe Retaining Clamp	28.12	5022081024794
PTCWFKIT	Armeg Water Feed Pressure Pump	68.91	5022081024576
CTCP08.0	Armeg 8mm Straight Shank Porcelain Tile Cutter - Pilot Drill	82.14	502208104411

PTC2 Diamond Crown Starter Kits

PTC Diamond crown cores are a blend of tungsten and diamond for drilling porcelain, marble and ceramic tiles. Extremely durable, they will last up to 1000 holes in porcelain.

MADE UP ON REQUEST

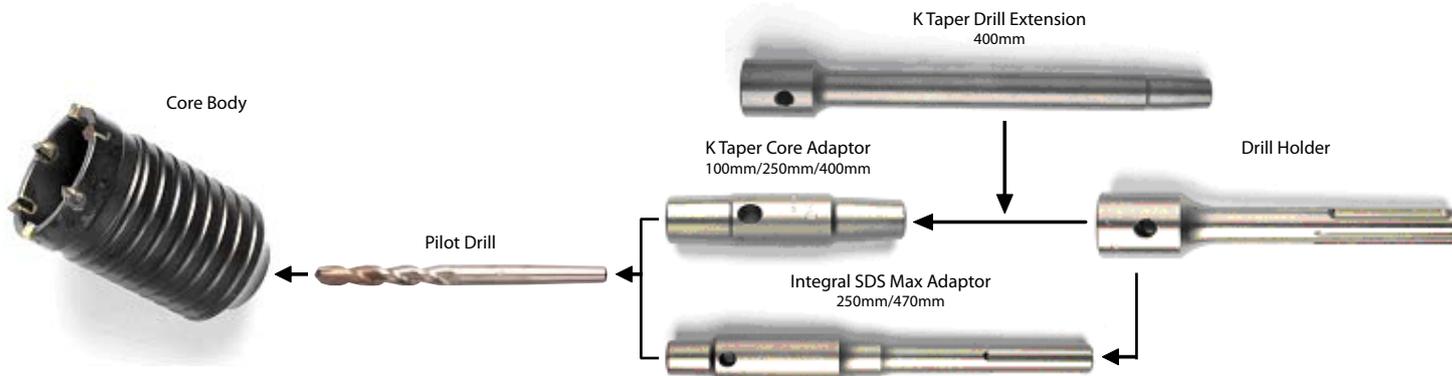
PRODUCT GROUP: A2

Part Number	Description	List Price (\$)	Barcode
PTC13SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 13mm PTC Diamond Crown	236.49	5022081027764
PTC19SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 19mm PTC Diamond Crown	252.47	5022081027771
PTC26SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 26mm PTC Diamond Crown	268.46	5022081027788
PTC36SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 36mm PTC Diamond Crown	283.90	5022081027795
PTC44SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 44mm PTC Diamond Crown	315.32	5022081027801
PTC52SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 52mm PTC Diamond Crown	350.60	5022081027863
PTC70SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 70mm PTC Diamond Crown	378.71	5022081027870
PTC90SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 90mm PTC Diamond Crown	442.10	502208107887
PTC112SSET	Armeg PTC Starter Set contains: 1 x 8.0mm PTC Pilot Drill, 1 x 8.0mm Masonry Drill, 1 x Water Feed Adaptor, 1 x 112mm PTC Diamond Crown	568.34	502208107894



Heavy Duty Core Drills

Ideal for concrete and slab work. Milled from solid stock of Sheffield steel. Tough enough for drilling large diameter holes up to 6 inches in concrete and other masonry materials. Versatility is available with K Taper adaptors. Can then be used in a wide range of machines using drill holders as shown on page 18. Extension rods, pilot drills, extractor drifts and adaptors all support the ability to switch machines, core diameters, lengths, etc. to match user requirements.



PRODUCT GROUP: A2

Part Number	Diameter (mm)	Core Depth (mm)	Description	List Price (\$)	Barcode
CO30	30	75	Heavy Duty Core Drill	81.59	5022081002006
CO35	35	75	Heavy Duty Core Drill	89.30	5022081002013
CO40	40	75	Heavy Duty Core Drill	97.58	5022081002020
CO45	45	75	Heavy Duty Core Drill	111.35	5022081002044
CO50	50	75	Heavy Duty Core Drill	126.24	5022081002051
CO55	55	75	Heavy Duty Core Drill	147.19	5022081002068
CO60	60	75	Heavy Duty Core Drill	164.83	5022081002075
CO65	65	75	Heavy Duty Core Drill	169.79	5022081002082
CO75	75	75	Heavy Duty Core Drill	194.04	5022081002099
CO80	80	75	Heavy Duty Core Drill	207.83	5022081002105
CO90	90	75	Heavy Duty Core Drill	227.12	5022081002112
CO100	100	75	Heavy Duty Core Drill	265.70	5022081002129
CO115	115	75	Heavy Duty Core Drill	315.87	5022081002136
CO125	125	75	Heavy Duty Core Drill	361.07	5022081002143
CO130	130	75	Heavy Duty Core Drill	350.18	5022081002150
CO152.4	152.4	75	Heavy Duty Core Drill	394.15	5022081002167

Heavy Duty Core Drill Adaptors & Accessories

PRODUCT GROUP: A2

Part Number	Shank Type	Shank Length (mm)	Working Length c/w Core Drill	Description	List Price (\$)	Barcode
D100KHD	K Taper	100	150	Heavy Duty Core Adaptor to K Taper	35.84	5022081003027
D250KHD	K Taper	250	300	Heavy Duty Core Adaptor to K Taper	59.54	5022081003102
D400KHD	K Taper	400	450	Heavy Duty Core Adaptor to K Taper	80.48	5022081003225
D250MX	SDS Max	250	200	Integral Core Adaptor to SDS Max	109.15	5022081003454
D470MX	SDS Max	470	420	Integral Core Adaptor to SDS Max	143.88	5022081003461
E11x130	A Taper		130	Pilot Drill 11x130mm	18.20	5022081003003
DDR				Extractor Drift Pin	4.97	5022081003485

Light Weight Core Drills

Ideal for brick work and block work – NOT for concrete or slab work. Gives versatility of core drilling from 25 to 110mm diameter. Speeds of up to 35% faster and with minimal breakthrough not normally associated with core drilling. Lightweight, thin wall design, weighing 50% less than traditional core drills, meets less resistance when cutting through masonry materials. More accurate holes can be drilled faster, and breakthrough minimised by drilling on rotation only mode, in softer materials. Innovative self locking mechanism, for securing the pilot drill, eliminates the need for awkward grub screws by using a unique ball locking operation. No need for extra tools or spanners, the core body actually fixes the pilot in place as it screws into the adaptor. Ideal for plumbing and electrical applications in brick, block, masonry, etc.. Adaptors for SDS+ or hexagonal shank (for use in 3 jaw chucks) in either 100 or 300mm long, add to the versatility.



Core Body

*Not to be used with 300mm adaptors

PRODUCT GROUP: A2

Part Number	Diameter (mm)	Core Depth (mm)	Description	List Price (\$)	Barcode
CL25S	25	65	Light Weight Core Drill	69.46	5022081002501
CL30S	30	65	Light Weight Core Drill	71.66	5022081002518
CL40S	40	65	Light Weight Core Drill	82.14	5022081002525
CL45S	45	65	Light Weight Core Drill	85.45	5022081002532
CL50S	50	65	Light Weight Core Drill	99.78	5022081002549
CL66S	66	65	Light Weight Core Drill	118.52	5022081002556
CL80S*	80	65	Light Weight Core Drill	167.58	5022081002563
CL110S*	110	65	Light Weight Core Drill	277.83	5022081002570

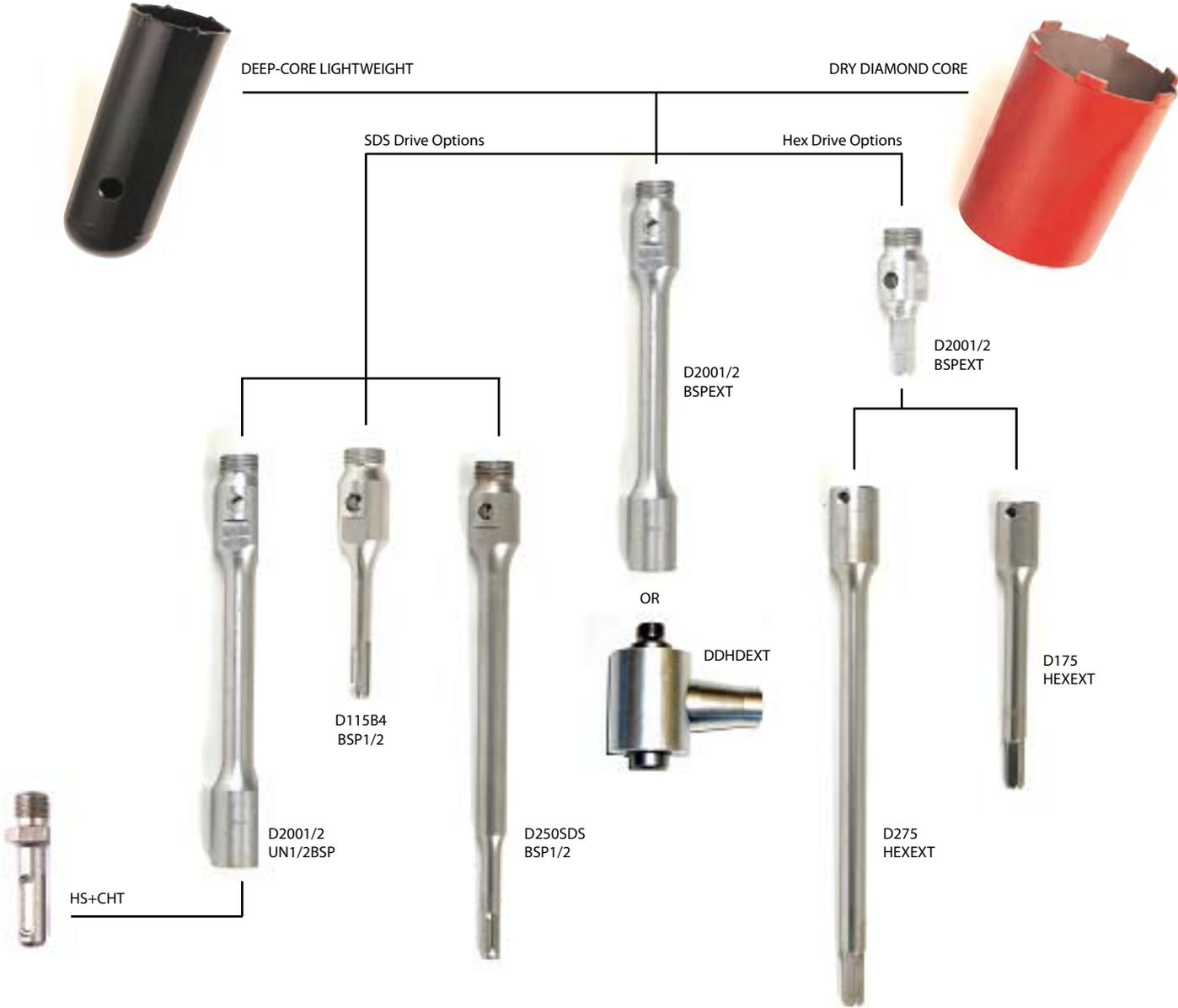
Light Weight Core Drill Adaptors & Accessories



PRODUCT GROUP: A2

Part Number	Shank Length	Description	List Price (\$)	Barcode
DL100B4S	100	Adaptor to T3 Multifit (SDS+)	46.86	5022081003393
DL100x13S	100	Adaptor to 13mm Hex	46.86	5022081003416
DL300B4S	300	Adaptor to T3 Multifit (SDS+) (recommended for use only when necessary)	66.15	5022081003409
DL300x13S	300	Adaptor to 13mm Hex (recommended for use only when necessary)	66.15	5022081003423
CLPDS		7mm Pilot Drill	12.68	5022081003386
CLTB	200	Tommy Bar (for disassembly)	16.54	5022081003478

Deep Core & Dry Diamond Drilling Connection Diagram



Dry Diamond Core Drills

Combination of superior design and high quality manufacture. Ideally suited to lightweight building materials, ordinary facing brickwork and blockwork up to 10n/mm². Range is designed to give rapid, clean service entries with virtually no making good required. Virtually no 'break out' damage. Power tools of over 900W with a slipping clutch are required. Rotary action only. Can be QFDS (SDS+) or Hex Driven. Full range of accessories available, see page 18.



PRODUCT GROUP: A2

Part Number	Diameter (mm)	Core Depth (mm)	Description	List Price (\$)	Barcode
CDD022LS	22	300	Dry Diamond Core Drill	132.86	5022081022592
CDD028LS	28	300	Dry Diamond Core Drill	132.86	5022081022608
CDD038	38	150	Dry Diamond Core Drill	122.93	5022081022622
CDD048	48	150	Dry Diamond Core Drill	132.86	5022081022639
CDD052	52	150	Dry Diamond Core Drill	148.29	5022081022646
CDD065	65	150	Dry Diamond Core Drill	167.58	5022081022653
CDD078	78	150	Dry Diamond Core Drill	192.39	5022081022660
CDD107	107	150	Dry Diamond Core Drill	249.17	5022081022684
CDD117	117	150	Dry Diamond Core Drill	261.85	5022081022691
CDD127	127	150	Dry Diamond Core Drill	281.14	5022081022707
CDD152	152	150	Dry Diamond Core Drill	312.56	5022081022714

Deep Core Light Weight Drills

Product length (150mm core depth) allows user to drill in one continuous action with no need to stop and break out the core. Can be used with hammer action while utilising the same accessories as used in Dry Diamond drilling. Thinner, lightweight design of deep-core lightweight drills allows both hammer action and rotary only mode to be utilised. Faster drilling saves time and money. Product design and hammer action of QFDS (SDS+) machines contribute to rapid and progressive penetration in masonry materials. ½ inch BSP drive connections allow the use of dust extraction facilities.



PRODUCT GROUP: A2

Part Number	Diameter (mm)	Core Depth (mm)	Description	List Price (\$)	Barcode
CT034x150	34	150	Deep Core Light Weight	113.56	5022081025012
CT040x150	40	150	Deep Core Light Weight	114.66	5022081022738
CT052x150	52	150	Deep Core Light Weight	137.27	5022081022745
CT065x150	65	150	Deep Core Light Weight	158.21	5022081022752
CT078x150	78	150	Deep Core Light Weight	183.02	5022081022769
CT103x150	103	150	Deep Core Light Weight	243.11	5022081022776
CT117x150	117	150	Deep Core Light Weight	267.36	5022081022783

Dry Diamond & Deep Core Drill Adaptors & Accessories

PRODUCT GROUP: A2

Part Number	Overall Length	Description	List Price (\$)	Barcode
D115B4BSP1/2	115	SDS Adaptor to 1/2 BSP	39.14	5022081910004
D250SDSBSP1/2	250	SDS Adaptor to 1/2 BSP	61.19	5022081910011
D070HEXBSP1/2	70	Hex Adaptor to 1/2 BSP	35.28	5022081910028
D175HEXEXT	175	Hex Extension Rod	55.13	5022081910035
D275HEXEXT	275	Hex Extension Rod	71.12	5022081910042
D2001/2UNFBSP	200	Barrel Extension 1/2 BSP to 1/2 UNF	56.23	5022081910059
D2001/2BSPEXT	200	1/2 BSP Extension Rod	57.89	5022081910110
DSDSAP		3 Piece QFDS (SDS+) Adaptor Pack: 1 x DDR Drift Pin, 1 x 9A10.0x225GR Guide Rod, 1 x D115B4BSP1/2 SDS Adaptor to 1/2 BSP	87.65	5022081910066
DHEXAP		3 Piece Hex Adaptor Pack: 1 x DDR Drift Pin, 1 x 9A10.0x225GR Guide Rod, 1 x D070HEXBSP1/2 Hex Adaptor to 1/2 BSP	57.33	5022081910073
A10x225		A Taper Pilot Drill - 10mm x 225mm	23.15	5022081001184
A10x300		A Taper Pilot Drill - 10mm x 300mm	39.69	5022081001191
A10x400		A Taper Pilot Drill - 10mm x 400mm	35.28	5022081001207
9A10x225GR		A Taper 10mm x 225mm Guide Rod	18.74	5022081910103



SDS Series

A range of innovative accessories for use in most SDS type drilling machines. Chuck adaptors provide a quick and easy method of enabling a traditional 3 jaw chuck to be used in an SDS machine with hammer stop facility. A ½ inch adaptor with ¼ inch internal hexagon allows an SDS machine to be quickly converted to accept screw driver bits, a fast change from drilling to screw driving. Socket drivers also provide the instant switch from drilling to driving home of coach bolts, etc. Quality forged points and chisels.



PRODUCT GROUP:A2

Part Number	Blade Size	Overall Length	Description	List Price (\$)	Barcode
HS+CHT	-		SDS+ ½ inch Chuck Adaptor with ¼ inch Hex	27.56	5022081005786
HS+CHTS	-		T3 Multifit ½ inch Chuck Adaptor with Left Hand Screw	27.56	5022081005748
S+FC	20	250	T3 Multifit Flat Chisel	9.98	9339080004402
S+FCSP	35	250	T3 Multifit Flat Spade Chisel	12.39	9339080004419
S+PC	-	250	T3 Multifit Pointed Chisel	9.98	9339080004396
914894	40	-	SDS+ Cranked Spade Chisel	12.60	9339080004426
G150B4SCH	30	-	T3 Multifit Scutch Comb Chisel	70.01	5022081027818
SCCO	-	-	Scutch Comb - for use with G150B4SCH	2.76	5022081026392

SDS Max Series

Tools to suit:

- AEG PN11E, PN400E, PM10E
- ATLAS COPCO PH55
- BOSCH GBH5, GBH5CE, GBH5/40DCE, GBH8DCE, GBH10/DC, GBH38, GSH4, GSH10C, GSH11E, GSH5E, GSH388, GBH 7-45DE
- DE WALT DW540K, DW541K, DW543K, DW545K
- HILTI TE42, TE52, TE54, TE72, TE74, TE92, TE504, TE706AVR
- HITACHI H60MB, H45MR
- METABO BH6045S, KHE55, KHE75, MHE95, MHE65
- MAKITA HM1100C
- RAMSET 355, 385, 455, 575, 560, 610, 605



PRODUCT GROUP:A2

Part Number	Blade Size	Overall Length	Description	List Price (\$)	Barcode
G360MXC	25	360	SDS Max Long Chisel	17.54	9339080004327
G360MXP		360	SDS Max Long Point	17.54	9339080004303
G500MXC	25	500	SDS Max Long Chisel	22.37	9339080004341
G500MXP		500	SDS Max Long Point	22.37	9339080004310
G50MXSC	50	400	SDS Max Wide Chisel (not for lifting ceramic tiles)	28.04	9339080004358
G80MXSC	80	400	SDS Max Wide Chisel (not for lifting ceramic tiles)	30.14	9339080004365
914977	-	300	Stem for Floor Cleaning Tool	13.13	9339080004389
914985	100 x 165	450	Clayspade	120.73	9339080004624
100331	75	300	Cranked Tile Lifter	30.77	9339080004372

K900 Series

Tools to suit:
ATLAS COPCO
KANGO
HITACHI
MAKITA

PB10C, PB14C, PH11C
900, 900X, 928, 950, 950K, 950X, 1400
DH50SA, DH50SAI, H55SA
HR3850K, HM1200K, HR5000K



PRODUCT GROUP: A2

Part Number	Blade Size	Overall Length	Description	List Price (\$)	Barcode
914112	-	380	Point	24.15	9339080004433
914113	-	450	Point	28.67	9339080004440
914118	25	380	Chisel	24.47	9339080004457
914119	25	450	Chisel	29.09	9339080004464
914375	50		Cranked Chisel	30.24	9339080004471
914376	75	310	Tile Lifter	36.44	9339080004495
914476	75	300	Wide Chisel	33.92	9339080004488
914481	100 x 165	450	Clayspade	120.73	9339080004600
914483	-	275	Stem for Floor Cleaning Tool	19.64	9339080004501

PH65 Series

Tools to suit:
HITACHI
MAKITA

PH65A, H65SB, H65SB2
8900N, HM1300, HM1400, HM1500



PRODUCT GROUP: A2

Part Number	Blade Size	Overall Length	Description	List Price (\$)	Barcode
914615	-	450	Point	39.59	9339080004525
914625	25	450	Chisel	40.22	9339080004549
914632	75	410	Wide Chisel	50.72	9339080004556
914633	100 x 165	450	Clayspade	120.73	9339080004617
100313	75	400	Cranked Tile Lifter	54.29	9339080004532
300026	50	-	Star Picket Driver (50mm internal diameter)	93.71	9339080004228
914644	-	300	Stem for Floor Cleaning Tool	34.65	9339080004563

K Taper Drill Holders

PRODUCT GROUP: A2

Part Number	Line Drawing	Description	List Price (\$)	Barcode
DDR		Extractor Drift Pin	4.97	5022081003485
HA-K		A Taper to K Taper Drill Adaptor	20.40	5022081005052
HB2-K		K Taper Masonry Drill Holder	71.66	5022081005113
HB4-K		K Taper Masonry Drill Holder	61.74	5022081005151
HC2-K		K Taper Masonry Drill Holder	75.53	5022081005236
HK1-K		K Taper Masonry Drill Holder	72.77	5022081005410
HK2-K		K Taper Masonry Drill Holder	58.99	5022081005434
HMX-K		K Taper Masonry Drill Holder	85.45	5022081005793
HV2-K		K Taper Masonry Drill Holder	68.36	5022081005700

Quick Fit Drill Holders

Quick fit adaptors convert popular integral shanks to take QFDS (SDS+) hammer drill bits. Quick fit adaptors are for occasional use only. For prolonged or continuous drilling a direct fitting integral drill bit will provide the better performance option.



PRODUCT GROUP: A2

Part Number	Line Drawing	Description	List Price (\$)	Barcode
HQFB2		Quick Fit Drill Holder Spline to QFDS (SDS+)	110.25	5022081011008
HQFMX		Quick Fit Drill SDS Max to QFDS (SDS+)	110.25	5022081011084

Drill Holders Overview

Make of Machine	Manufacturers Model Number	K Taper Drill Holders	Quick Fit to QFDS (SDS+) Part Number
AEG	PH240, PH350, PH350D, PH38, PHD38 AEG QFDS (SDS+) Machines, HB-26, BH-22E, BH-22XE, BH-24XE PHSS, PN 6000S, PN 11E, PN 400E, PM 10E	HB2-K HB4-K HMX-K	QFB2 N/A QFMX
ATLAS COPCO	DKR32R, DKR34R (Pneumatic) Atlas Copco QFDS (SDS+) Machines PHE7S, PHE6S, PHE50S	HC2-K HB4-K HMX-K	N/A N/A QFMX
BLACK AND DECKER	5041, 5042, 5043, P8022, P8032, P8038 P8020, HD2016	HB2-K HB4-K	QFB2 N/A
BOSCH	11202, 11203, 11204, 11205, 12202, UBH 4/26 2DS, 11206 UBH 6/35, 11208, UBH 4/26 2DS, 11206 UBH 6/35, 11208, UBH 6/35, 11209 UBH 12/50, 11214 GBH 7/45 DE GBH 5DCE, GBH 8DCE, GBH 10DCE, GSH 5CE, GSH 10C, Seven, GBH12DE, GBH7-46DE, GBH5-40DE, 9BH5-380 Bosch QFDS (SDS+) Machines	HB2-K HMX-K HB4-K	QFB2 QFMX N/A
COMPAIR	Zitec 3300 (Pneumatic)	HC2-K	
CONSOLIDATED PNEUMATIC	CP 9 S (Pneumatic)	HC2-K	N/A
DEWALT	DW550K, DW563KC, DW566K, DW567K DW540K, DW541K, DW545K	HB4-K HMX-K	QFMX QFMX
ELU	MBH20, MBH23, MBH24, MBH25, MBH26 BH40K, BH40EK, BH45EK	N/A HMX-K	N/A QFMX
HILTI	TE42, TE52, TE60, TE72, TE92 Hilti QFDS (SDS+) Machines TE74, TE54, TE55, TE75, TE56, TE76-ATC, TE56-ATC	HMX-K HB4-K HMX-K	N/A N/A QFMX
HITACHI	DH24PB, DH15DV, DH16V, VRV16, DH20V, DH25V, DH18DV, DH18VB DH28Y, VRY38, DH38YB, DH38YB1 DH50, DH50SA, DH50SA1, DH38YD DH40MB, DH40MR	HB4-K HV2-K HK1-K HMX-K	N/A N/A N/A QFMX
IMPEX	SD1800, SD2500 SD3500	HB4-K HB2-K	N/A N/A
KANGO	950, 950X, 950K, 978, 750 430C, 500, 501, 637 200, 285, 422, 426, 430D, 350	HK1-K HK2-K HB4-K	N/A N/A N/A
KRESS	500EPD, 550EPD	HB4-K	N/A
MAKITA	HR3500, HR3510, HR3520, 8035 NBHR1600, HR1800, HR1820, HR2000, HR2510, 8015DW HR3850K, HR5000K HR4000C, HR5001C, HM1100C	HV2-K HB4-K HK1-K HMX-K	N/A N/A N/A QFMX
MARTO	RW12	HB4-K	N/A
METABO	BHE1128S, BHE1129S, BHE1130S, BHE1131S, BHE24, KHE32, KHE28, UHE28 Metabo QFDS (SDS+) Machines BHE6045S, KHE55, KHE75, MHE95, MHE65	HB2-K HB4-K HMX-K	N/A N/A QFMX
MILWAUKEE	5343, 5344, 5347, 5348, 5352-6 5366-4, 5366-6, 5368-4-6, 5362-6	HB2-K HB4-K	QFB2 N/A
PHILLIPS	747-2 715	HB2-K HB4-K	QFB2 N/A
PEUGEOT	ME20RL, 20MR, 20MRC PM38	HB4-K HB2-K	N/A QFB2
RYOBI	ED220, ED221, ER260, ED20VR, ED262VRK, ED263VRK ED381P ED382P	HB4-K HV2-K HB2-K	N/A N/A N/A
SKIL	6855H, 1750	HB4-K	N/A
UNIFIX	UF675, UF750	HK2-K	N/A
WACKER	EHUB10Y/220, EHB10/110 EHB7	N/A HMX-K	N/A QFMX

Quattro Bore

4 Tips and 4 Flutes.

Perfect for hardwood.

1/4 Hex quick lock shank

Available in a full range of sizes from 10mm-25mm and 6 piece set.

Made in Taiwan

Part Number	Description	Price	Barcode
4F-10	Quattro Bore - 10mm (3/8")	\$8.82	9339080002309
4F-12	Quattro Bore - 12mm (1/2")	\$11.03	933908002323
4F-12	Quattro Bore - 14mm	\$12.13	933908002347
4f-16	Quattro Bore - 16mm (5/8")	\$13.23	933908002361
4F-19	Quattro Bore - 19mm (3/4")	\$14.33	9339080002392
4F-22	Quattro Bore - 22mm (7/8")	\$16.54	933908002422
4F-25	Quattro Bore - 25mm (1")	\$18.74	9339080002453
4F-6PCS	Quattro Bore 6 Piece Kit - 10, 12, 16, 19, 22 and 25mm	\$65.05	9339080002507



Superstar Spirit Levels



BMI



- Designed for tilers, plasterers and other trades.
- Strong walls and shock absorbing rubber end caps preserve high measuring accuracy.
- Highest accuracy for life, 0.5mm/m due to ultrasonic-welded walls (BMI patent).
- Milled measuring surface (up to 120cm).
- Domed round horizontal vial with magnifying effect provides unsurpassed readability, also for inverted measurement.
- Highest accuracy also for inverted measurement.
- Unbreakable acrylic vials - easy to clean with 30 year warranty.
- Available in a full range from 30cm-200cm (120cm and 200cm with three vials).
- Made in Germany.

Part Number	Description	Price	Barcode
699090A	Superstar 30cm Spirit Level	\$41.35	94007368041375
699040A	Superstar 40cm Spirit Level	\$44.10	4007368041382
699060A	Superstar 60cm Spirit Level	\$49.61	4007368041405
699080A	Superstar 80cm Spirit Level	\$55.13	4007368041429
699100A	Superstar 100cm Spirit Level	\$63.40	4007368041443
699120S	Superstar 120cm 3 Vial Spirit	\$84.35	4007368099413
699200S	Superstar 200cm 3 Vial Spirit	\$132.30	4007368091721

**Spirit Level Carry Bags also available.*

Operating Instructions - Tips & Techniques

LONG DRILL BITS

When drilling with bits over 450mm or 18" long, always pre-drill the hole with a shorter drill bit of the same diameter, to the minimum of 1/3 of the total length of the longer bit. Starting a hole without pre-drilling can be difficult and potentially dangerous. When longer drill bits are located in pre-drilled holes, they are partially supported. When not supported in a pre-drilled hole a longer bit is likely to flex more with potential for breakage if combined with excessive operator pressure.

WITHDRAW BITS FREQUENTLY

Whilst deep hole drilling, it is recommended that the drill bit is withdrawn at frequent intervals. This will help the flow of spoil away from the head of the drill bit. If spoil is trapped and not allowed to escape from the drill head, then progress will be impaired and the life of the bit potentially reduced. Trapped spoil is re-hammered and re-ground with further penetration rates significantly reduced. Wear on the carbide tip will be accelerated due to edges becoming rounded and the bit tip becoming blunt. In severe cases the drill head can overheat causing potential failure of the drill bit. Wear on the steel shank of the bit may also be accelerated.

FLUTE DEPTH

Never attempt to drill beyond the depth of the flutes on the drill bit. Once the flutes are no longer visible spoil can be trapped, performance hindered and problems created at the drill head, as described above.

LATERAL/SIDEWAYS PRESSURE

Never apply lateral pressure to the drill bit or leave the machine unsupported whilst the bit is in a hole. If excessive lateral pressure is exerted whilst drilling then shearing or snapping of bits may occur. A potential point of breakage is at the exact point where the bit meets the external surface of the masonry. Lateral pressure can cause bits to break across this point.

ALLOW THE HAMMER MACHINE TO DO THE WORK

Hold the machine firmly, and at a constant angle. Do not exert excessive pressure or force the machine into the hole. The pushing force will hinder the hammer action of the machine and impair performance.

FREQUENTLY LUBRICATE DRILL BIT SHANKS

Always ensure that the shank of the drill bit is well lubricated with a machine manufacturer's recommended lubricant. If drills are used 'dry' without lubricant, then a build up of heat may damage both your machine and the drill bit. If drill bit shafts are allowed to become too hot, then they are more prone to breakage. Always ensure that either worn drill bits or worn hammer machine parts are not used.

STEEL REINFORCING BAR & BLOCKAGES

If it is thought that either re-bar or a blockage has been hit, then stop drilling immediately. Do not in any circumstances attempt to continue drilling. It is unlikely that the blockage will 'go-away', and it is likely that your drill bit will be damaged. By continuing to drill the following may occur:

- The carbide tip may crack, chip or even shatter.
- Your drill bit may snap or shear the head from the body. If the head is snagged and momentarily stopped in the hole a complete snap may result. Whilst the head is stopped, the power and torque from the machine attempts to continue to turn the bit. The combined actions of stopping and turning can result in twisting or snapping of the bit.

Operating Instructions - Tips & Techniques

RE-SHARPENING

Re-sharpening bits can extend the life of a bit but only for a limited period. Re-sharpening bits actually reproduces the original cutting angles of the carbide that were designed for penetrating masonry. This is only the case if the sharpening is carried out accurately, in accordance with published guidelines on angles, etc.

Re-sharpening is limited as to the amount of 'new' carbide that can be exposed. The amount of steel support is also a limiting factor. The re-sharpening process actually weakens the remaining carbide tip. The grinding action of an abrasive wheel produces a series of tiny 'scratches' in the carbide material. Under pressure of the hammer blow and the impact into the masonry, these tiny scratches can become the starting points from which cracks and chips develop. Hence, a re-ground tip is significantly more likely to fail than a new tip.

STRESS RAISERS

A stress raiser is the point at which a snap or breakage is most likely to originate from. If a drill is under severe pressure (e.g., with a jammed head in the hole) and is going to snap, there is always a start point. If there are cuts, nicks, notches, deep scratches, etc., on the drill, then they are the most likely points at which a drill will snap when under pressure.

RE-TIPPING

Re-tipping hammer drill bits can provide a hammer drill with a further, but limited life. The actual process of re-tipping is typically done by hand and the method has some fundamental issues that will limit the effectiveness of the re-tipped product. The following points should be considered.

- a) To clean out the original broken tip necessitates heating the end of the drill to a temperature of approximately 960 degrees centigrade. At this temperature the original bronze braze becomes molten and any remaining carbide can be forced out.
- b) At 960 degrees centigrade, there is the possibility that such a high temperature will change the molecular structure of the steel, as this will be the second time that the material has been heated to this temperature. Changes in the molecular structure can result in steel fatigue and hence drill failure.
- c) Once the original tip has been removed the slot has to be cleaned out and accurate slot dimensions need to be ensured. Any excess, original braze will need to be removed to ensure slot surfaces are perfectly clean and free from dirt, debris, oil, etc.

DRILLING IN WET OR SATURATED CONCRETE

This could be old, fully cured concrete that has subsequently been soaked by either heavy, prolonged rain or more likely from moisture rising from beneath the concrete to cause it to become permanently saturated.

Uncured concrete can still be wet/moist up to 28 days after setting and before curing.

The effect that wet concrete has on drill bits can be very damaging. As the drill head is hammering away it is producing masses of dust and debris. The rotary hammer action can cause the end of the drill to heat up. The combination of heat, dust and moisture can cause a 'paste' like substance to form in the flutes behind the drill head. With the heat generated, this paste can literally set rock hard in the flutes. If the occurrence is ongoing then the flutes will be clogging with hard substance and therefore blocking the path for other debris to escape.

If the escape path, i.e., the flutes are blocked then the bit may jam/snatch in the hole. The pressures caused when the drill jams can cause snapping. In normal dry, cured concrete the spoil is free to flow away down the flutes without setting and blocking the flutes. The problem may be exaggerated in a Spline machine where the rotation is typically 300-400rpm rather than a faster QFDS (SDS+) machine where rpm can be 600-650rpm. With the slower Spline machine. Spoil and debris is already slower to be moved down the flutes and wet concrete can only make the situation worse.

METHOD OF CHECKING DRILL WEAR

The amount of wear on an Armeg drill can easily be measured:

Using callipers, measure the diameter of the drill across the spiral section immediately before the plain, round part of the shank (F1).

Measure the diameter of the spiral directly below the tungsten carbide tip (F2).

Subtract F2 from F1 to give the amount of wear ('W')

WEAR TABLES

If the amount of wear is equal to or greater than the figures ('W') given in the table below, the drill has already served its useful life and is no longer covered by the Armeg Warranty.

Drill Ø mm	4-5	5.5-7	8-12	13-17	18-20	22-24
'W' mm	0.2	0.3	0.4	0.5	0.6	0.7
Drill Ø mm	25-26	28-32	33-38	38-40	44-50	
'W' mm	0.8	0.9	1.0	1.1	1.3	



Operating Instructions - Tips & Techniques

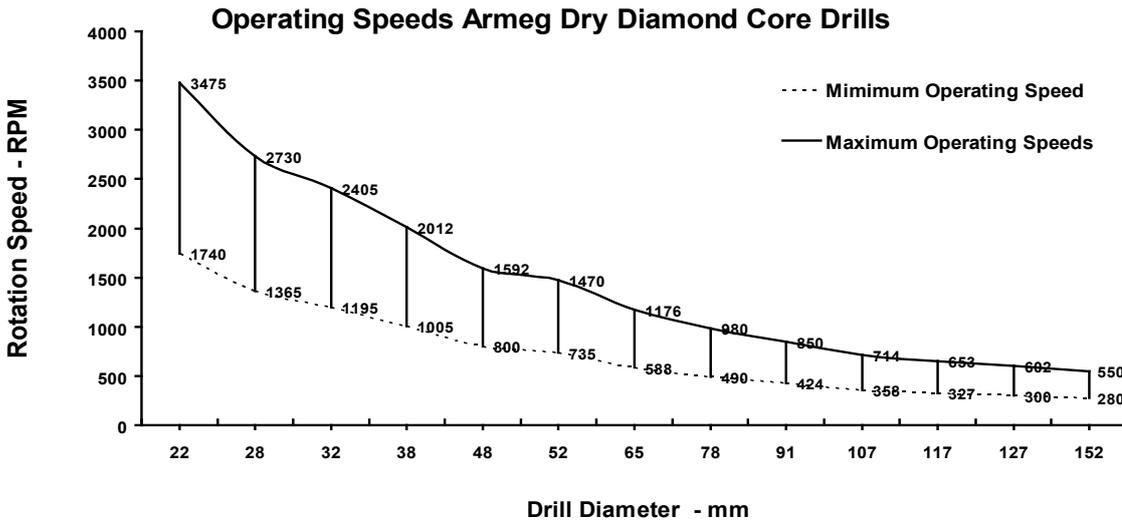
DRY DIAMOND CORE DRILLS RECOMMENDATIONS FOR USE & TROUBLESHOOTING

Use a standard drill with a minimum of 900 watts. Use with ROTARY ACTION ONLY. Drill pilot hole first, with hammer, in masonry materials. Apply firm pressure only, not excessive pressure. For optimum performance use Armeg accessories.

Consult operating speed selection chart for speed (rpm).

DRILLING SPEEDS

Speed (rpm) too low	Excessive pressure on the core bit results in uneven wear of the diamond matrix and diamonds, leading to erosion and loss of the diamonds (unsatisfactory core bit life).
Speed (rpm) correct	Optimum pressure on the core bit. Results in even wear of the diamond matrix and diamonds, with optimum projection of diamonds, optimum drilling speeds and core bit life will be achieved.
Speed (rpm) too high	Insufficient pressure on the core bit. The diamond matrix does not wear, which means that the diamonds do not project adequately, resulting in loss of cutting power. Drilling progress is reduced as the segments become polished.



Operating Instructions - Tips & Techniques

Diameter (mm)	Minimum RPM	Maximum RPM	Speed Minimum	Speed Maximum
22	1740	3475	2	4
28	1365	2730	2	4
32	1195	2405	2	4.03
38	1005	2012	2	4
48	800	1592	2.01	4
52	735	1470	2	4
65	588	1176	2	4
78	490	980	2	4
91	424	850	2.02	4.05
107	358	714	2.01	4
117	327	653	2	4
127	300	602	2	4
152	280	550	2.23	4.38

Operating Instructions - Tips & Techniques

DRY DIAMOND CORE DRILL FAULT DIAGNOSIS

Problem	Cause	Solution
Difficulty starting hole with core drill	Core bit not sharpened (dressed)	Sharpen (dress) core bit
	Core bit is deformed	Check that core bit runs true, replace bit if necessary
Core bit does not cut properly	Wrong speed (rpm) is selected	Increase drilling pressure
	Motor power is insufficient	Reduce speed (rpm) (better use of available power)
	Segments are polished	Sharpen (dress) the core bit
		Reduce drilling pressure
	Steel reinforcement	Discontinue drilling (use specialist core bit)
	Segments are not suitable for material being cut	Discontinue drilling (use specialist core bit)
Core bit sticks	Inadequate clearance	Release the core bit (withdraw the core bit while turning backwards and forwards using an open ended wrench) and check segment clearance
	Core bit is deformed	Check that the core bit runs true, replace bit if necessary.
	Loose rebar	Discontinue drilling (use specialist core bit)
	Radial force too high	Ensure no sideways pressure is applied to the core bit
Excessive axial segment wear	Wrong speed (rpm) selected	Increase drilling speed (rpm)
	Drilling pressure too high	Reduce drilling pressure
	Very abrasive material	Discontinue drilling (use specialist core bit)
Radial segment wear	Radial force too high	Ensure no sideways pressure is applied to core bit
	Core bit wanders	Prevent core bit from wandering by starting hole cautiously
Segments break off	Use of excessive force	Have core bit repaired *broken segments must always be removed from the hole to prevent further damage
	Contact with steel reinforcement	Discontinue drilling (use specialist core bit)
Core sticks inside core bit	Steel fragments causing jamming between core and core bit barrel	Release the core from the core bit, locate the area causing jamming, drill out the problem spot
	Core bit barrel deformed	
	Core broken in several pieces	
	Radial segment wear	

Operating Instructions - Tips & Techniques

PORCELAIN TILE CUTTER OPERATING INSTRUCTIONS

MACHINE MODE

This product should be used on **ROTARY ACTION ONLY. DO NOT** use hammer or impact action under any circumstances.

WATER COOLANT

Always use a water coolant while drilling with this product, ensuring that water is permanently at the cutting tip of the tool.

MACHINE SPEEDS

The optimum operating speed for the tool is between 700-900rpm with 900rpm as the maximum recommended speed. Using the PTC drill at speeds over 900rpm will prematurely wear the bit.

PRESSURE/FORCE

Do not use this product when blunt or worn. Do not exert excessive pressure to a worn tool as this may result in cracking of tiles. If the tool penetration slows excessively then the PTC is at the end of its life. Always let the tool do the work without excessive pressure.

FIXED TILES

To prolong the life of the tool, only use the PTC drill bit to produce the hole in the tile not in any masonry or other non-tile material that may be beneath the tile. Once the tile is penetrated then switch bits to a professional (straight/plain shank) masonry drill to drill to the required depth in the non-tile material, eg. the full length required for fixing a plug.

LOOSE TILES

When drilling tiles not already fixed then drill the tiles on a flat bed, supporting the tile evenly across its entire surface and follow the operating guidelines. Where possible, use a softer material for the flat bed, eg. wood, that will not cause damage to the drill tip.

TIP BURN OUT/ROUNDING OFF

Excessive speed or failure to use water coolant may cause the tips to burn out and or become rounded. The steel support around the tip may also show signs of turning blue in colour which indicates excessive speed/lack of coolant.

EXCESSIVE TIP BLUNTING

Using hammer/impact action will result in tips becoming blunt prematurely and then failing to drill. Use of the PTC in unsuitable materials such as masonry will cause tip blunting and product failure.

TILE BREAKAGE

Excessive or sideways pressure to the PTC may cause tip breakage. Dropping the PTC may also cause tip breakage. Drilling into non-tile materials may also cause tip breakage. Using hammer/impact action will result in tip failure/breakage.





With over 30 years of experience in manufacturing, when customers select Armeg, they get far more than just an extensive, best-selling product range.

- * Product Quality
- * Manufacturing expertise
- * Maximised penetration rates
- * State of art technology/plant
- * Designed for ultimate performance
- * 3 decades of world class manufacturing
- * Strong, established market leading brand
- * Co-ordinated and attractive brand identity
- * Maximum strength and tool life expectancy
- * Innovative head designs and multi-flute technology
- * Computerised product testing and performance benchmarking

Distributed By:

JPM TOOLS Pty Ltd
ABN 97 817 292 987

12/18-20 Roberna Street
Moorabbin VIC 3189
Australia
Phone: (03) 9077 9135
Fax: (03) 9077 9245
Email: tools@jpmtools.com.au

www.jpmtools.com.au

**JPM
TOOLS**
IMPORTER • DISTRIBUTOR

**Proud Distributors of the
Following Leading Brands...**

