



HOLE SAWS

Morse Hole Saws now utilize Master Cobalt® technology, which has taken these hole saws to the very top of the charts in cutting performance and long life. Master Cobalt® Hole Saws are uniquely designed to clear chips during cutting so they require less cutting pressure and last longer. When it comes to making holes in any material, Morse leads the way.

Master Cobalt® Bi-Metal AV	Master Cobalt® Bi-Metal AD	Tungsten Carbide Tipped	Tungsten Carbide Grit	Real McCoy® TA Style	Real McCoy® TAD Style	Spade Bits	Step Drills
							
Blade Type				Application			
Master Cobalt® Bi-Metal AV Hole Saws				All types of machinable metal including stainless steel, wood, nail-embedded wood, plastic. Standard 1-1/2" cutting depth cuts through 2 x 4's. Requires a separate arbor for operation.			
Master Cobalt® Bi-Metal Deep Cutting AD Hole Saws				Same cutting applications as Master Cobalt® AV style, but the AD style is deep cutting with a 1-7/8" cutting depth. Also requires a separate arbor.			
Tungsten Carbide Tipped AT Hole Saws				Nail free wood, plastic, aluminum, fiberglass, drywall, fiberboard, plaster, acoustic tile, countertops. Coarser tooth pitch than bimetal hole saws for very fast cutting in soft material. Not recommended for pipe. Standard 1-1/2" cutting depth. Requires separate arbor.			
Tungsten Carbide Grit Edge ATCG Hole Saws				For use in very hard or abrasive material. Hardened steel, cast iron, brick, cinder block, ceramics, foamed glass, fiberglass, composites, computer flooring, cement, acoustic tile. Standard 1-1/2" cutting depth. Requires separate arbor.			
Real McCoy® Bi-Metal TA Hole Saws w/ Built-In Arbor				All types of machinable metal including stainless steel, wood, nail embedded wood, plastic. Standard 1-1/2" cutting depth cuts through 2 x 4's. Pass through shank – no separate arbor required.			
Real McCoy® Bi-Metal TAD Deep Cutting Hole Saws w/ Built-In Arbor				Same cutting applications as the Real McCoy® TA style but the TAD style is deep cutting with a 1-7/8" cutting depth. Pass through shank – no separate arbor required.			
Spade Bits				Wood, plastic, plywood, formica. Fast, deep cutting at any angle.			
Step Drills				Sheet metal, plastic/plexiglass, PVC, composition board, plasterboard. Use to drill new holes or enlarge existing holes. Also use to deburr in auto rustproofing.			



MASTER COBALT® BI-METAL HOLE SAWS

This premium line of professional quality hole saws features an M3 high-speed steel cutting edge, electron beam welded to a tough steel backer. Caps stand up to abuse and punishment, yet are lighter and easier to use than those of competitors. Positive rake tooth design provides better chip clearance as teeth cut into wood, plastic or any machinable metal. The 1-1/2" cutting depth cuts easily through 2x4's. A separate arbor is required (see page 10).

Backer, cutting edge and cap work together to provide faster, longer-lasting cutting action

Bi-metal design bonds M3 cutting edge to fatigue resistant backer



Positive rake teeth clear chips better for longer life and easier cutting

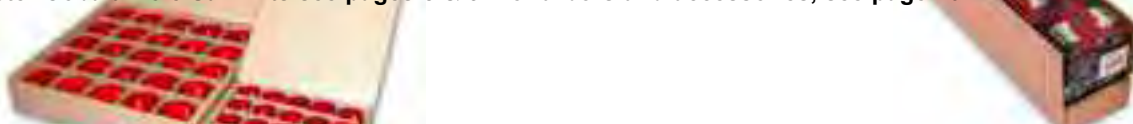
Teeth stay sharper and make smoother cuts

PACKAGING: 1 per box
1 per card, 2 cards per standard pack

Diameter*		Product Number				Pipe Tap Size	Pipe Ent. Size
Inches	mm	Boxed Prod. #	Boxed Comp #	Carded Prod. #	Carded Comp #	Inches	Inches
AV09-AV244 use the following 1/2-20 arbors M24, M24K, M34, M44, or M44K							
9/16	14	AV09	170093	AVC09	130097		
5/8	16	AV10	170109	AVC10	130103		
	16	AV105	175104	AVC105	130646		
11/16	17	AV11	170116	AVC11	130110		
3/4	19	AV12	170123	AVC12	130127	1/2	3/8
	20	AV125	175128	AVC125	135122		
13/16	21	AV13	170130	AVC13	130134		
7/8	22	AV14	170147	AVC14	130141	3/4	1/2
15/16	24	AV15	170154	AVC15	130158		
	25	AV155	175159	AVC155	135153		
1	25	AV16	170161	AVC16	130165		
1-1/16	27	AV17	170178	AVC17	130172		
1-1/8	29	AV18	170185	AVC18	130189	1	3/4
	30	AV185	175180	AVC185	135184		
1-3/16	30	AV19	170192	AVC19	130196		
1-1/4	32	AV204	174022	AVC204	134200		
1-3/8	35	AV224	174220	AVC224	134224		
1-1/2	38	AV244	174244	AVC244	134248	1-1/4	
AV20-AV385 use the following 5/8-18 arbors M35PS, M45, M45P, M46PS, M55P, or M44K							
1-1/4	32	AV20	170208	AVC20	130202		
	32	AV205	175203	AVC205	135207		
1-5/16	33	AV21	170215	AVC21	130219		
1-3/8	35	AV22	170222	AVC22	130226		1
	35	AV225	175227	AVC225	135221		
1-7/16	37	AV23	170239	AVC23	130233		
1-1/2	38	AV24	170246	AVC24	130240	1-1/4	
1-9/16	40	AV25	170253	AVC25	130257		
	40	AV255	175258	AVC255	135252		
1-5/8	41	AV26	170260	AVC26	130264		
1-11/16	43	AV27	170277	AVC27	130271		
1-3/4	44	AV28	170284	AVC28	130288	1-1/2	1-1/4
	45	AV285	175289	AVC285	135283		
1-13/16	46	AV29	170291	AVC29	130295		
1-7/8	48	AV30	170307	AVC30	130301		
	50	AV315	175319	AVC315	135313		
2	51	AV32	170321	AVC32	130325		1-1/2
AV20-AV38 use the following 5/8-18 arbors M35PS, M45, M45P, M46PS, M55P, or M44K							
2-1/16	52	AV33	170338	AVC33	130332		
2-1/8	54	AV34	170345	AVC34	130349		
	55	AV345	175340	AVC345	135344		
2-1/4	57	AV36	170369	AVC36	130363		
2-5/16	59	AV37	170376	AVC37	130370	2	
2-3/8	60	AV38	170383	AVC38	130387		
	62	AV385	175388				
AV40-AV96 use the following 5/8-18 arbors M45P, M46PS, M55P, or M44K							
2-1/2	64	AV40	170406	AVC40	130400		2
2-9/16	65	AV41	170413	AVC41	130417		
2-5/8	67	AV42	170420	AVC42	130424		
	68	AV425	175425	AVC425	135429	2-1/2	
2-11/16	68.5	AV435	175432	AVC435	135436		
2-3/4	70	AV44	170444	AVC44	130448		
2-7/8	73	AV46	170468	AVC46	130462		
	75	AV475	175470	AVC475	135474		
3	76	AV48	170482	AVC48	130486		2-1/2
3-1/8	79	AV50	170505	AVC50	130509		
3-1/4	83	AV52	170529	AVC52	130523		
3-3/8	86	AV54	170543	AVC54	130547	3	
3-1/2	89	AV56	170567	AVC56	130561		
3-5/8	92	AV58	170581	AVC58	130585		3
3-3/4	95	AV60	170604	AVC60	130608		
3-7/8	98	AV62	170628	AVC62	130622	3-1/2	
	100	AV63	170635	AVC63	130639		
4	102	AV64	170642	AVC64	130646		
4-1/8	105	AV66	170666	AVC66	130660		3-1/2
4-1/4	108	AV68	170680	AVC68	130684		
4-3/8	111	AV70	170703	AVC70	130707	4	
4-1/2	114	AV72	170727	AVC72	130721		4
4-3/4	121	AV76	170765	AVC76	130769	4-1/2	
5	127	AV80	170802	AVC80	130806		
5-1/4	133	AV84	170840				
5-1/2	140	AV88	170888	AVC88	130882		
5-3/4	146	AV92	170925	AVC92	130929		
6	152	AV96	170963	AVC96	130967		

* Metric sizes shown in red are exact millimeter sizes. Metric sizes in black are approximate metric equivalents of exact inch sizes.

For Master Cobalt® Hole Saw Kits see pages 8 & 9. For arbors and accessories, see page 10.



BULK PACK HOLE SAWS - 25 per box Same spec. No individual boxes. Packed in a flat divided box.								MASTER PACK HOLE SAWS - 20 per box Same spec. Individually boxed. Can be a shelf or counter POP.							
Inches	mm	Prod. #	Comp #	Inches	mm	Prod. #	Comp #	Inches	mm	Prod. #	Comp #	Inches	mm	Prod. #	Comp #
3/4	19	AV12B25	169004	1-1/2	38	AV24B25	169059	3/4	19	AV12M20	169110	1-1/2	38	AV24M20	169165
7/8	22	AV14B25	169011	1-5/8	41	AV26B25	169066	7/8	22	AV14M20	169127	1-5/8	41	AV26M20	169172
1	25	AV16B25	169028	1-7/8	48	AV30B25	169073	1	25	AV16M20	169134	1-7/8	48	AV30M20	169189
1-1/8	29	AV18B25	169035	2	51	AV32B25	169080	1-1/8	29	AV18M20	169141	2	51	AV32M20	169196
1-1/4	32	AV20B25	169042	2-1/8	54	AV34B25	169097	1-1/4	32	AV20M20	169158				
1-3/8	35	AV22B25	169349	2-3/8	60	AV38B25	169103								

NEW!



MASTER COBALT® DEEP CUTTING BI-METAL HOLE SAWS

1-7/8" cutting depth provides extra depth for specialty cuts made by locksmiths, remodelers and general contractors alike. Easily cuts through 2 x 4's, joists and most doors in one pass with extra clearance.

PACKAGING: 1 per box

Variable pitch smoothes cutting action with minimum vibration

M3 cutting edge for high wear resistance and longer life



Diameter		Product #	Computer #	Pipe Tap Size Inches	Pipe Ent. Size Inches	Diameter		Product #	Computer #	Pipe Tap Size Inches	Pipe Ent. Size Inches
Inches	mm					Inches	mm				
3/4	19	AD12	150002	1/2	3/8	2-3/4	70	AD44	150354		
7/8	22	AD14	150019	3/4	1/2	3	76	AD48	150132		2-1/2
1	25	AD16	150026			3-1/4	83	AD52	150385	3	
1-1/8	29	AD18	150033	1	3/4	3-3/8	86	AD54	150149		
1-3/16	30	AD19	150248			3-1/2	89	AD56	150187		
1-1/4	32	AD20	150040			3-3/4	95	AD60	150408		
1-3/8	35	AD22	150057		1	3-7/8	98	AD62	150194	3-1/2	
1-1/2	38	AD24	150064	1-1/4		4	102	AD64	150200		
1-3/4	44	AD28	150071	1-1/2	1-1/4	4-1/4	108	AD68	150156		
1-7/8	48	AD30	150088		1-1/2	4-1/2	114	AD72	150439		4
2	51	AD32	150095			4-3/4	121	AD76	150446	4-1/2	
2-1/8	54	AD34	150101			5	127	AD80	150453		
2-1/4	57	AD36	150118	2		5-1/2	140	AD88	150460		
2-3/8	60	AD38	150170			6	152	AD96	150484		
2-1/2	64	AD40	150125		2	6-5/8	168	AD106	150163		

CARBIDE TIPPED MAINTENANCE KIT: AT100 / 160056

Contains popular sizes used in installation of 1/2"-2" pipe and conduit through abrasive materials. Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2" Arbors (1 each): M24K, M44, M45P Extension (1): 12"



CARBIDE TIPPED ELECTRICIANS KIT: AT02E / 160001

Pipe and conduit entrance sizes to 2" through abrasive materials. Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2" Arbors (1 each): M34CT, M45PCT



CARBIDE TIPPED HOLE SAWS

Specifically designed for sawing holes in abrasive materials such as fiberglass, particleboard, asbestos board, and formica.

PACKAGING: 1 per box

Tungsten carbide tooth tips offer the highest wear resistance possible and longer life cutting abrasive materials

Diameter		Product #	Comp #	Diameter		Product #	Comp #
Inches	mm			Inches	mm		
11/16	16	AT105	160100	2-5/16	59	AT37	160377
3/4	17	AT11	160117	2-3/8	60	AT38	160384
13/16	19	AT12	160124	2-1/2	64	AT40	160407
7/8	21	AT13	160131	2-9/16	65	AT41	160414
15/16	22	AT14	160148	2-5/8	67	AT42	160421
1	24	AT15	160155	2-3/4	70	AT44	160445
1-1/16	25	AT16	160162	2-7/8	73	AT46	160469
1-1/8	27	AT17	160179	3	76	AT48	160483
1-3/16	29	AT18	160186	3-1/8	79	AT50	160506
1-1/4	30	AT19	160193	3-1/4	83	AT52	160520
1-5/16	32	AT20	160209	3-3/8	86	AT54	160544
1-3/8	33	AT21	160216	3-1/2	89	AT56	160568
1-7/16	35	AT22	160223	3-5/8	92	AT58	160582
1-1/2	37	AT23	160230	3-3/4	95	AT60	160605
1-9/16	38	AT24	160247	3-7/8	98	AT62	160629
1-5/8	40	AT25	160254	4	102	AT64	160643
1-11/16	41	AT26	160261	4-1/8	105	AT66	160667
1-3/4	43	AT27	160278	4-1/4	108	AT68	160681
1-13/16	44	AT28	160285	4-3/8	111	AT70	160704
1-7/8	46	AT29	160292	4-1/2	114	AT72	160728
2	48	AT30	160308	4-3/4	121	AT76	160766
2-1/16	51	AT32	160322	5	127	AT80	160803
2-1/8	52	AT33	160339	5-1/2	140	AT88	160889
2-1/4	54	AT34	160346	5-3/4	146	AT92	160926
	57	AT36	160360	6	152	AT96	160964



Ground and set teeth to help cut materials that bi-metal saws will not cut

3 teeth per inch creates wider gullet for better chip clearance and faster cutting

For arbors and accessories, see page 10.



TUNGSTEN CARBIDE GRIT HOLE SAWS

The long-lasting choice for cutting holes in materials too hard or abrasive for standard bi-metal saws, or so thin they would strip bi-metal or chip carbide teeth.

Ideal for cutting ceramics, fiberglass, hardwoods, cast iron, composites, etc.



Super resistance to heat, wear and abrasion with shock resistant back

Tungsten carbide grains are bonded to alloy backs with a gulleted, snag resistant edge

1-1/2" cutting depth.

PACKAGING: 1 per box

Diameter		Product #	Comp #	Pipe Tap Size Inches	Pipe Ent. Size Inches	Diameter		Product #	Comp #	Pipe Tap Size Inches	Pipe Ent. Size Inches
Inches	mm					Inches	mm				
3/4	19	ATCG12	161084	1/2	3/8	2-3/8	60	ATCG38	161299		
13/16	21	ATCG13	161091			2-1/2	64	ATCG40	161305		2
7/8	22	ATCG14	161107	3/4	1/2	2 9/16	65	ATCG41	161312		
15/16	24	ATCG15	161114			2-5/8	67	ATCG42	161329	2-1/2	
1	25	ATCG16	161121			2-3/4	70	ATCG44	161336		
1-1/16	27	ATCG17	161138			2-7/8	73	ATCG46	161343		
1-1/8	29	ATCG18	161145	1	3/4	3	76	ATCG48	161350		2-1/2
1-3/16	30	ATCG19	161152			3-1/8	79	ATCG50	161367		
1-1/4	32	ATCG20	161008			3-1/4	83	ATCG52	161374	3	
1-5/16	33	ATCG21	161169			3-3/8	86	ATCG54	161381		
1-3/8	35	ATCG22	161015		1	3-1/2	89	ATCG56	161398		
1-7/16	37	ATCG23	161176			3-5/8	92	ATCG58	161077		3
1-1/2	38	ATCG24	161183	1-1/4		3-3/4	95	ATCG60	161404	3-1/2	
1-9/16	40	ATCG25	161190			3-7/8	98	ATCG62	161411		
1-5/8	41	ATCG26	161206			4	102	ATCG64	161428		
1-11/16	43	ATCG27	161213			4-1/8	105	ATCG66	161435		3-1/2
1-3/4	44	ATCG28	161022	1-1/2	1-1/4	4-1/4	108	ATCG68	161442	4	
1-13/16	46	ATCG29	161220			4-3/8	111	ATCG70	161039		
1-7/8	48	ATCG30	161237			4-1/2	114	ATCG72	161459	4-1/2	4
2	51	ATCG32	161244		1-1/2	4-3/4	121	ATCG76	161466		
2-1/16	52	ATCG33	161251			5	127	ATCG80	161473		
2-1/8	54	ATCG34	161268			5-1/2	140	ATCG88	161480		
2-1/4	57	ATCG36	161275	2		5-3/4	146	ATCG92	161497		
2-5/16	59	ATCG37	161282			6	152	ATCG96	161503		



TUNGSTEN CARBIDE GRIT HOLE SAW KIT: ATCG100 / 160995

Maintenance kit includes popular sizes for plumbing, electrical, and industrial maintenance jobs.

Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"

Arbors (1 each): M24CT, M44CT, M45CT

Extension (1): 12"

RECESSED LIGHTING HOLE SAW

Tungsten carbide grit hole saws are ideal for quick, easy installation of recessed lighting fixtures. They cut abrasive materials such as lath, plaster and ceiling tile.

PACKAGING: 1 per box



Diameter		Product #	Computer #	For Installing These Lighting Fixtures
Inches	mm			
4-3/8	111	ATCG70	161039	Mini Juno, Capri, Marco, Halo
6-3/8	162	ATCG104	161046	Halo, Capri
6-5/8	168	ATCG106	161053	Juno, Progress
6-7/8	174	ATCG110	161060	Lithonla, Marco, Lightolier, Progress, Capri, Preacolite

For 6-5/8" Bi-Metal Recessed Lighting Hole Saw see part# AD106 on page 6.



MASTER COBALT® BI-METAL HOLE SAW KITS

Special jobs need special tools. These handy kits keep the saw blade sizes pros need within easy reach. For comparable metric sizes see chart on page 9.

MASTER ELECTRICIANS KIT: AV08E / 171083

Entrance sizes to 4" Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2", 3" 3-5/8", 4-1/8", 4-1/2"
Arbors (1 each): M24K, M44, M45P

MASTER ELECTRICIANS KIT: AV08EPD / 169455

Same as AV08E with M24K and M24PD, M25PD positive drive arbors.

ELECTRICIANS KIT: AV02E / 171021

Entrance sizes to 2" Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2" Arbors (1 each): M44, M45P

ELECTRICIANS KIT: AV02EPD / 169394

Same as AV02E with M24PD and M25PD positive drive arbors.

SPECIAL ELECTRICIANS KIT: AV09E / 171090

2-1/2", 3", 3-1/2", 4" pipe entrance sizes. Saws (1 each): 3", 3-5/8", 4-1/8", 4-1/2" Arbors (1): M45P

ELECTRICIANS KIT: AV04E / 169431

Pipe and conduit entrance sizes through 2". Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2" Arbors (1 each): M34, M45P Adaptor Nut (1): M44NH01

PLUMBERS KIT: AV04P / 171045

Contains pipe tap sizes for pipe through 2" Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4" Arbors (1 each): M44, M45P

MASTER PLUMBERS KIT: AV16P / 169417

Entrance sizes to 4" Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4", 2-9/16", 3", 3-1/2", 4, 4-1/4", 4-1/2" Arbors (1 each): M34, M45P Pilot Drills (1 each): MPD4S01, MPD401

MECHANICS KIT: AV05M / 171052

The 5 most popular hole saw sizes for construction, industrial and automotive jobs. Saws (1 each): 7/8", 1", 1-1/8", 1-1/4", 1-1/2" Arbor (1): M34

REFRIGERATION KIT: AV01R / 170994

Entrance sizes to 1-1/2" Saws (1 each): 5/8", 7/8", 1-1/8", 1-3/8", 1-5/8", 2-1/8" Arbor (1 each): M34, M35PS

MAINTENANCE KIT: AV100 / 171106

A handy general purpose kit for plumbing and electrical jobs on pipe and conduit through 2". Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2" Arbors (1 each): M24K, M44, M45P Extension (1): 12"

UTILITY KIT: AV03U / 171076

6 commonly used hole saws for general purpose use. Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/2" Arbor (1): M34, M45P



LOCKSMITH KIT: AV02L / 171038

Designed for the professional locksmith, this kit contains sizes for installation of popular locks, deadbolts, etc.

Saws (1 each): 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2-1/8"

Arbors (1 each): M24, M45P



LOCKSMITH KIT: AV04L / 169448

A variation on our professional locksmith kit Contains sizes for installation of popular locks, deadbolts, etc.

Saws (1 each): 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2-1/8"

Arbors (1 each): M34, M35PS



INDUSTRIAL KIT: AV08I / 169424

Covers a range of common industrial plumbing and electrical applications. Saws (1 each): 3/4", 7/8", 1", 1-1/4", 1-3/8",

1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3" Arbors (1 each): M34,

M45P Extension (1): 12", Ejector Spring (1): MES101

INDUSTRIAL KIT: AV06I / 171069

Cover a broad range of common industrial plumbing and electrical jobs on pipe and conduit through 4".

Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2",

2-1/4", 2-1/2", 3", 3-1/4", 3-5/8", 3-3/4", 4-1/4", 4-1/2"

Arbors (1 each): M24K, M44, M45P Extension (1): 12"



MASTER TRADESMAN KIT: AV23M / 169356

Cover a broad range of common industrial maintenance, plumbing and electrical jobs on pipe and conduit through 4-1/2".

Saws (1 each): 3/4", 7/8", 1", 1-1/8", 1-3/8", 1-1/2",

1-3/4", 2", 2-1/8", 2-1/4", 2-1/2", 2-11/16", 3", 3-1/4",

3-3/8", 3-5/8", 3-3/4", 4-1/8", 4-1/2", 4-3/4" Arbors (1 each):

M34, M45P Pilot Drills (1 each): MPD4S01, MPD401

Extension (1): 12"

KIT CONTENT COMPARISON CHART

Diameter		AV08E	AV08EPD	AV02E	AV02EPD	AV09E	AV04E	AV04P	AV16P	AV05M	AV01R	AV100	AV03U	AV02L	AV04L	AV08I	AV06I	AV23M
Inches	mm																	
5/8	16									X								
3/4	19							X	X		X	X			X	X	X	
7/8	22	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
1	25								X				X	X				X
1-1/8	29	X	X	X	X		X	X	X	X	X	X				X	X	
1-1/4	32								X				X	X				
1-3/8	35	X	X	X	X		X			X	X				X	X	X	
1-1/2	38							X	X	X		X	X	X	X	X	X	
1-5/8	41									X								
1-3/4	44	X	X	X	X		X	X	X		X	X	X	X	X	X	X	
2	51	X	X	X	X		X				X				X	X	X	
2-1/8	54									X			X	X				X
2-1/4	57							X	X		X				X	X	X	
2-1/2	64	X	X	X	X		X				X	X			X	X	X	
2-9/16	65								X									
2-11/16	68																	X
3	76	X	X			X			X						X	X	X	
3-1/4	83															X	X	
3-3/8	86																	X
3-1/2	89								X									
3-5/8	92	X	X			X										X	X	
3-3/4	95															X	X	
4	102								X									X
4-1/8	105	X	X			X												
4-1/4	108								X							X		
4-1/2	114	X	X			X			X							X	X	
4-3/4	121																	X
Arbor	Thread																	
M24	1/2-20												X					
M24K	1/2-20	X	X								X					X		
M24PD	1/2-20		X		X													
M25PD	5/8-18		X		X													
M34	1/2-20					X		X	X	X		X		X	X			X
M35PS	5/8-18									X				X				
M44	1/2-20	X		X				X			X					X		
M45P	5/8-18	X		X		X	X	X	X		X	X	X			X	X	X
ME12-12"	Extension										X				X	X	X	X

