



KEYWAY BROACHES WITH SHIMS

HSS



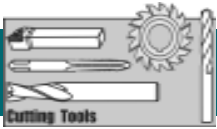
Broach Size	Type	Broach Dimensions	Shims Required	Length of Cut Min.	Length of Cut Max.	Tolerances	Model No.
1/16	A	1/8x5	0	13/64	1-1/8	0.0625-0.0635	395-1004
3/32	A	1/8x5	0	13/64	1-1/8	0.0938-0.0948	395-1006
1/8	A	1/8x5	1	13/64	1-1/8	0.1252-0.1262	395-1008
3/32	B	3/16x6-3/4	0	19/64	1-11/16	0.0937-0.0947	395-1106
1/8	B	3/16x6-3/4	1	19/64	1-11/16	0.1252-0.1262	395-1108
5/32	B	3/16x6-3/4	1	19/64	1-11/16	0.1564-0.1574	395-1110
3/16	B	3/16x6-3/4	1	19/64	1-11/16	0.1877-0.1887	395-1112
3/16	C	3/8x11-3/4	1	25/64	2-1/2	0.1877-0.1887	395-1212
1/4	C	3/8x11-3/4	1	25/64	2-1/2	0.2502-0.2512	395-1216
5/16	C	3/8x11-3/4	2	25/64	2-1/2	0.3127-0.3137	395-1220
3/8	C	3/8x11-3/4	2	25/64	2-1/2	0.3755-0.3765	395-1224
5/16	D	9/16x13-7/8	2	1	6	0.3127-0.3137	395-1324
3/8	D	9/16x13-7/8	2	1	6	0.3755-0.3765	395-1328
7/16	D	9/16x13-7/8	3	1	6	0.4380-0.4390	395-1332
1/2	D	9/16x13-7/8	3	1	6	0.5006-0.5016	395-1336
5/8	E	3/4x15-1/2	4	1	6	0.6260-0.6270	395-1440
3/4	E	3/4x15-1/2	5	1	6	0.7515-0.7525	395-1448
7/8	F	1x20-14	6	1	6	0.8765-0.8775	395-1556
1	F	1x20-14	7	1	6	1.0015-1.0025	395-1564
1-1/8		1-1/8x20-1/4	8	1	6	1.1265-1.1275	395-1570
1-1/4		1-1/4x20-1/4	9	1-1/2	8	1.2520-1.2530	395-1572
1-3/8		1-3/8x20-1/4	10	1-1/2	8	1.3770-1.3780	395-1574
1-1/2		1-1/2x20-1/4	11	1-1/2	8	1.5020-1.5030	395-1576

METRIC KEYWAY BROACHES

ISO, HSS



Size	S.Keys	Piece of Shim	Dimension	Tooth Pitch	Teeth	Length of Cut Min.	Length of cut Max.	Tolerance	Model No.
2-A mm	2x2mm		1/8x5"	3/16"	18	13/64"	1-1/8"	0.0782-0.0791	395-2006
3-A mm	3x3mm	1	1/8x5"	3/16"	18	13/64"	1-1/8"	0.1176-0.1185	395-2008
4-B-1 mm	4x4mm	1	1/4x6-3/4"	9/32"	16	19/64"	1-11/16"	0.1569-0.1579	395-2110
5-B-1 mm	5x5mm	1	1/4x6-3/4"	9/32"	16	19/64"	1-11/16"	0.1963-0.1972	395-2112
5-C mm	5x5mm	1	3/8x11-3/4"	3/8"	22	25/64"	2-1/2"	0.1963-0.1972	395-2212
6-C-1 mm	6x6mm	1	3/8x11-3/4"	3/8"	22	25/64"	2-1/2"	0.2356-0.2366	395-2216
8-C-1 mm	8x7mm	2	3/8x11-3/4"	3/8"	22	25/64"	2-1/2"	0.3143-0.3155	395-2220
10-D-1 mm	10x8mm	2	9/16x13-7/8"	5/8"	17	1"	6"	0.3930-0.3942	395-2224
12-D-1 mm	12x8mm	2	9/16x13-7/8"	5/8"	17	1"	6"	0.4716-0.4730	395-2324
14-D-1 mm	14x9mm	2	9/16x13-7/8"	5/8"	17	1"	6"	0.5503-0.5517	395-2328
16-E-1 mm	16x10mm	3	3/4x15-1/2"	5/8"	20	1"	6"	0.6290-0.6304	395-2332
18-E-1 mm	18x11mm	3	3/4x15-1/2"	5/8"	20	1"	6"	0.7078-0.7092	395-2336
20-F-1 mm	20x12mm	3	1x20-1/4"	5/8"	26	1"	6"	0.7864-0.7880	395-2440
22-F-1 mm	22x14mm	4	1x20-1/4"	5/8"	26	1"	6"	0.8651-0.8667	395-2448
24-F mm	24x14mm	5	1x20-1/4"	5/8"	26	1"	6"	0.9439-0.9455	395-2556
25-F-1 mm	25x14mm	4	1x20-1/4"	5/8"	26	1"	6"	0.9832-0.9848	395-2564



Cutting Tools

INCH KEYWAY BROACH SETS



Pieces	No. Of Broachs	No. Of Shim	No. Of Bushings	Keyway Combinations	Model No.
9	3 Broachs: 1/16-A, 3/32-A, 1/8-A	1	5 Bushings: 1/4, 5/16, 3/8, 7/16, 1/2"	15	395-0109
17	2 Broachs: 5/8, 3/4"	9	6 Bushings: 2-5/16, 2-7/16, 2-9/16, 2-11/16, 2-13/16, 2-15/16"	12	395-0217
17	2 Broachs: 5/8-E, 3/4-E	9	6 Bushings: 2-3/8, 2-1/2, 2-5/8, 2-3/4, 2-7/8, 3"	12	395-0218
22	4 Broachs: 5/16-D, 3/8-D, 7/16-D, 1/2-D	10	8 Bushings: 1-7/16, 1-9/16, 1-11/16, 1-13/16, 1-15/16, 2-3/16, 2-7/16, 2-15/16	32	395-0322
22	4 Broachs: 5/16-D, 3/8-D, 7/16-D, 1/2-D	10	8 Bushings: 1-1/2, 1-5/8, 1-3/4, 1-7/8, 2, 2-1/8, 2-1/4, 2-1/2"	32	395-0323
32	3 Broachs: 1/2-D, 5/8-E, 3/4-E	12	17 Bushings: 2, 2-1/16, 2-1/8, 2-3/16, 2-1/4, 2-5/16, 2-3/8, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-13/16, 2-7/8, 2-15/16, 3	26	395-0432
75	8 Broachs: 1/8, 3/16"(B), 1/4, 5/16"(C), 3/8, 7/16, 1/2"(D), 5/8, (E) 3/4"	22	44 Bushings: 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16, 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 1-15/16, 2", 2-1/16, 2-1/8, 2-3/16, 2-1/4, 2-5/16, 2-3/8, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-13/16, 2-7/8, 2-15/16, 3"	102	395-0575
18	4 Broachs: 1/8-B, 3/16-B, 1/4-C, 3/8-C	5	9 Bushings: 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2"	18	395-0718
18	4 Broachs: 1/8-B, 3/16-B, 1/4-C, 3/8-C	5	9 Bushings: 9/16, 11/16, 13/16, 15/16, 1-1/16, 1-3/16, 1-5/16, 1-7/16, 1-9/16	18	395-0719
27	4 Broachs: 1/8-B, 3/16-B, 1/4-C, 3/8-C	5	18 Bushings: 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16	36	395-0727
30	5 Broachs: 1/8", 3/16"(B), 1/4", 5/16", 3/8"(C)	7	18 Bushings: 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16	47	395-0730

METRIC KEYWAY BROACH SETS

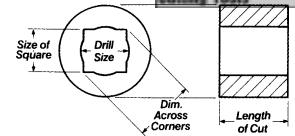
Piece	No. Of Broaches	No. Of Shim	No. Of Bushings	Keyway Combinations	Model No.
6	2 Broachs: 2mm, 3mm (A)	1	3 Bushings: 6, 8, 10mm	6	395-0806
16	2 Broachs 16mm, 18mm (E-1)	6	8 Bushings: 52, 54, 55, 56, 58, 60, 62, 65mm	16	395-0816
21	3 Broachs 10mm, 12mm, 14mm (D-1)	6	12 Bushings: 32, 34, 35, 36, 38, 40, 42, 44, 45, 46, 48, 50mm	36	395-0821
22	4 Broachs 4mm, 5mm (B-1), 6mm, 8mm (C-1)	5	13 Bushings: 12, 14, 15, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30mm	26	395-0822

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Cutting Tools

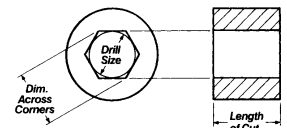


SQUARE PUSH BROACHES



Broach Size	Broach Length	Pilot Dia.	Drill size	Length of Cut		Tolerance	Model No.
				Min.	Max.		
1/8"	4-1/8	0.1285	#30	3/16	1/2	0.1250-0.1260	395-4002
3/16"	5-9/16	0.1935	#10	1/4	5/8	0.1880-0.1890	395-4006
7/32"	6-3/8	0.2280	#1	1/4	3/4	0.2190-0.2200	395-4010
1/4"	6-1/2	17/64	17/64	1/4	3/4	0.2505-0.2515	395-4014
5/16"	7-7/8	21/64	21/64	5/16	1	0.3130-0.3140	395-4018
3/8"	9-3/8	25/64	25/64	3/8	1-1/4	0.3755-0.3765	395-4022
1/2"	12	17/32	17/32	1/2	1-3/8	0.5005-0.5015	395-4026
5/8"	16-5/16	21/32	21/32	5/8	1-5/8	0.6260-0.6270	395-4030
11/16"	17-3/4	3/4	3/4	5/8	1-5/8	0.6885-0.6895	395-4034
3/4"	17-3/4	13/16	13/16	5/8	1-5/8	0.7510-0.7520	395-4038

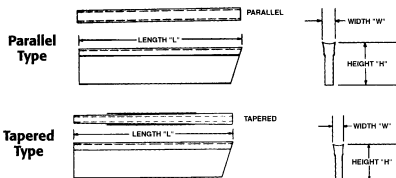
HEXAGON PUSH BROACHES



Broach Size	Broach Length	Pilot Dia.	Drill size	Length of Cut		Tolerance	Model No.
				Min.	Max.		
3/16"	5-1/16	3/16	3/16	1/4	5/8	0.1880-0.1890	395-6002
1/4"	6	1/4	1/4	1/4	3/4	0.2505-0.2515	395-6006
5/16"	7-3/4	5/16	5/16	3/8	1	0.3130-0.3140	395-6010
3/8"	8-1/2	3/8	3/8	3/8	1-1/4	0.3755-0.3765	395-6014
7/16"	10-5/8	7/16	7/16	1/2	1-3/8	0.4385-0.4395	395-6018
1/2"	11-7/8	1/2	1/2	1/2	1-3/8	0.5005-0.5015	395-6022
5/8"	16-1/4	5/8	5/8	5/8	2	0.6260-0.6270	395-6026
11/16"	16-3/4	11/16	11/16	5/8	2	0.6880-0.6890	395-6030
7/8"	18-1/2	7/8	7/8	5/8	2	0.8765-0.8775	395-6034
1"	19-3/4	1	1	5/8	2	1.002-1.003	395-6038

T - TYPE CUT-OFF BLADES

H.S.S



Parallel Type

Tool No.	W	H	L	Model No.
P1N	0.04"	1/2"	3-1/2"	363-6005
P1	1/16"	1/2"	4-1/2"	363-6010
P2N	5/64"	1/2"	4-1/2"	363-6015
P2	3/32"	1/2"	4-1/2"	363-6020
P3S	1/8"	1/2"	4-1/2"	363-6025
P3N	3/32"	11/16"	5"	363-6030
P3	1/8"	11/16"	5"	363-6035
P4	5/32"	11/16"	5"	363-6040
P5S	3/16"	11/16"	5"	363-6045
P3W	1/8"	3/4"	5"	363-6050
P4W	5/32"	3/4"	5"	363-6055
P5W	3/16"	3/4"	5"	363-6060
P5	1/8"	7/8"	6"	363-6065
P5N	5/32"	7/8"	6"	363-6070
P5	3/16"	7/8"	6"	363-6075
P6	1/4"	7/8"	6"	363-6080
P8	1/8"	1-1/8"	6-1/2"	363-6085
P8	5/32"	1-1/8"	6-1/2"	363-6090
P8	3/16"	1-1/8"	6-1/2"	363-6095
P9	1/4"	1-1/8"	6-1/2"	363-6100
P10	5/16"	1-1/8"	6-1/2"	363-6105

Tapered Type

Tool No.	W	H	L	Model No.
T1-N	.040	1/2	3-1/2"	363-5005
T-1	1/16	1/2	4-1/4"	363-5010
T-2-N	5/64	1/2	4-1/4"	363-5015
T-2	3/32	1/2	4-1/4"	363-5020
T3-S	1/8"	1/2	4-1/4"	363-5025
T3-N	3/32	11/16	4-1/4"	363-5030
T3	1/8"	11/16	4-1/4"	363-5035
T4	5/32"	11/16	4-1/4"	363-5040
T5-S	3/16"	11/16	5"	363-5045
T3-W	1/8	3/4	5"	363-5050
T4-W	5/32	3/4	5"	363-5055
T5-W	3/16	3/4	5"	363-5060
T5-X	1/8	7/8	5"	363-5065
T5-N	5/32	7/8	5"	363-5070
T5	3/16"	7/8	5"	363-5075
T6	1/4"	7/8"	5"	363-5080
T8-X	1/8	1-1/8	5-1/2"	363-5085
T8-N	5/32	1-1/8	5-1/2"	363-5090
T8	3/16"	1-1/8	5-1/2"	363-5095
T9	1/4	1-1/8	5-1/2"	363-5100
T10	5/16	1-1/8	5-1/2"	363-5105

CUT-OFF BLADES

H.S.S



W	H	L	Model No.
1/16	11/16	5"	363-0001
3/32	1/2	4-1/2"	363-0002
3/32	5/8	5"	363-0003
1/8	3/4	5"	363-0004
1/8	7/8	6"	363-0005
3/16	1	6-1/2"	363-0006
3/16	1-1/8	7"	363-0007
1/4	1-1/8	7"	363-0008
1/4	1-1/4	7"	363-0009
1/4	1-3/8	7"	363-0010