## ANNULAR CUTTERS

ICS WIS

TWO FLATS

ON SHANK

SPECIAL PURPOSE

**GROUND END TEETH** 

RIGHT HAND CUT

Annular Cutters are designed to be used with magnetic base drills, drill presses, milling machines, etc. to drill large diameter holes quickly and efficiently. They have up to 12 cutting edges to cut around the hole, leaving only a center slug which pops out. Quality burr-free holes can be cut in a single pass, 3-5 times faster than conventional twist drills. They can also cut multiple (overlap) hole configurations as well as curved surfaces and interrupted cuts.

DEPTH OF CUT	SHANK	STEEL SPECS	CUTTING APPLICATION
1", 2", 3", 4"	3/4	M2	For general purpose cutting of steel plate, structural steel, steel pipe, etc.

## Fractional Sizes (3/4" Weldon Shank) 7/16" to 4" Dia.

SIZE   EQUIV.   AC1D   AC2D   AC3D   AC4D							
SIZE         EQUIV.         AC1D         AC2D         AC3D         AC4D           7/16         .4375         30.48         62.12         -         -           1/2         .5000         31.70         37.20         -         -           9/16         .5625         32.10         40.06         -         -           5/8         .6250         33.26         43.60         -         -           11/16         .6875         37.14         46.10         -         -           3/4         .7500         40.88         49.08         -         -           13/16         .8125         42.32         52.88         -         -           7/8         .8750         44.76         57.28         -         -           15/16         .9375         47.00         60.24         -         -           1-1/18         1.1250         56.98         75.80         CALL         CALL         FOR           1-1/8         1.1250         56.98         75.80         CALL         FOR         PRICE           1-3/16         1.3125         63.74         86.02         -         -         -           1-3/8							
7/16         .4375         30.48         62.12         -         -           1/2         .5000         31.70         37.20         -         -           9/16         .5625         32.10         40.06         -         -           5/8         .6250         33.26         43.60         -         -           11/16         .6875         37.14         46.10         -         -           3/4         .7500         40.88         49.08         -         -           13/16         .8125         42.32         52.88         -         -           7/8         .8750         44.76         57.28         -         -           15/16         .9375         47.00         60.24         -         -           1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL         FOR           1-3/16         1.1875         57.38         78.66         PRICE           1-3/8         1.3750         82.38         90.54         -         -           1-3/8         1.3750         82.38         90.54         -			1"	2"	3"	4"	
1/2         .5000         31.70         37.20         -         -           9/16         .5625         32.10         40.06         -         -           5/8         .6250         33.26         43.60         -         -           11/16         .6875         37.14         46.10         -         -           3/4         .7500         40.88         49.08         -         -           13/16         .8125         42.32         52.88         -         -           7/8         .8750         44.76         57.28         -         -           15/16         .9375         47.00         60.24         -         -           1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL         FOR           1-3/16         1.1875         57.38         78.66         FOR         PRICE           1-3/8         1.3750         82.38         90.54         -         -           1-7/16         1.4375         91.32         108.34         -         -           1-9/16         1.5625         108.46         121	SIZE	EQUIV.	AC1D	AC2D	AC3D	AC4D	
9/16       .5625       32.10       40.06       -       -         5/8       .6250       33.26       43.60       -       -         11/16       .6875       37.14       46.10       -       -         3/4       .7500       40.88       49.08       -       -         13/16       .8125       42.32       52.88       -       -         7/8       .8750       44.76       57.28       -       -         15/16       .9375       47.00       60.24       -       -         1-1/16       1.0000       49.78       63.80       -       -         1-1/18       1.1250       56.98       75.80       CALL       FOR         1-1/8       1.1250       56.98       75.80       CALL       FOR         PRICE       PRICE       PRICE       PRICE         1-3/16       1.3125       63.74       86.02       -       -         1-3/8       1.3750       82.38       90.54       -       -         1-7/16       1.4375       91.32       108.34       -       -         1-9/16       1.5625       108.46       121.76       -       -     <	7/16	.4375	30.48	62.12	-	-	
5/8         .6250         33.26         43.60         -         -           11/16         .6875         37.14         46.10         -         -           3/4         .7500         40.88         49.08         -         -           13/16         .8125         42.32         52.88         -         -           7/8         .8750         44.76         57.28         -         -           15/16         .9375         47.00         60.24         -         -           15/16         .9375         47.00         60.24         -         -           1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL FOR PRICE         CALL FOR PRICE         FOR PRICE           1-3/16         1.3125         63.74         86.02         -         -           1-3/8         1.3750         82.38         90.54         -         -           1-7/16         1.4375         91.32         108.34         -         -           1-9/16         1.5625         108.46         121.76         -         -           1-5/8<	1/2	.5000	31.70	37.20	-	-	
11/16       .6875       37.14       46.10       -       -         3/4       .7500       40.88       49.08       -       -         13/16       .8125       42.32       52.88       -       -         7/8       .8750       44.76       57.28       -       -         15/16       .9375       47.00       60.24       -       -         1-1/16       1.0000       49.78       63.80       -       -         1-1/16       1.0625       54.46       70.94       -       -         1-1/8       1.1250       56.98       75.80       CALL       FOR         1-3/16       1.1875       57.38       78.66       FOR       PRICE         1-1/4       1.2500       59.90       81.64       PRICE       PRICE         1-5/16       1.3125       63.74       86.02       -       -         1-3/8       1.3750       82.38       90.54       -       -         1-7/16       1.4375       91.32       108.34       -       -         1-9/16       1.5625       108.46       121.76       -       -         1-5/8       1.6250       116.02 <td< td=""><td>9/16</td><td>.5625</td><td>32.10</td><td>40.06</td><td>-</td><td>-</td></td<>	9/16	.5625	32.10	40.06	-	-	
3/4         .7500         40.88         49.08         -         -           13/16         .8125         42.32         52.88         -         -           7/8         .8750         44.76         57.28         -         -           15/16         .9375         47.00         60.24         -         -           1         1.0000         49.78         63.80         -         -           1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL         FOR           1-3/16         1.1875         57.38         78.66         PRICE         FOR           1-1/4         1.2500         59.90         81.64         PRICE         PRICE           1-5/16         1.3125         63.74         86.02         -         -           1-3/8         1.3750         82.38         90.54         -         -           1-7/16         1.4375         91.32         108.34         -         -           1-9/16         1.5625         108.46         121.76         -         -           1-5/8         1.6250         116.02	5/8	.6250	33.26	43.60	-	-	
13/16       .8125       42.32       52.88       -       -         7/8       .8750       44.76       57.28       -       -         15/16       .9375       47.00       60.24       -       -         1       1.0000       49.78       63.80       -       -         1-1/16       1.0625       54.46       70.94       -       -         1-1/8       1.1250       56.98       75.80       CALL       FOR         1-3/16       1.1875       57.38       78.66       FOR       PRICE         1-3/16       1.1875       57.38       78.66       PRICE       PRICE         1-5/16       1.3125       63.74       86.02       -       -         1-3/8       1.3750       82.38       90.54       -       -         1-7/16       1.4375       91.32       108.34       -       -         1-9/16       1.5625       108.46       121.76       -       -         1-5/8       1.6250       116.02       127.72       -       -         1-3/4       1.7500       132.56       146.12       -       -         1-3/4       1.8750       155.02	11/16	.6875	37.14		-	-	
7/8         .8750         44.76         57.28         -         -           15/16         .9375         47.00         60.24         -         -           1         1.0000         49.78         63.80         -         -           1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL FOR PRICE         FOR PRICE           1-3/16         1.1875         57.38         78.66         FOR PRICE         PRICE           1-5/16         1.3125         63.74         86.02         -         -           1-3/8         1.3750         82.38         90.54         -         -           1-7/16         1.4375         91.32         108.34         -         -           1-7/16         1.4375         91.32         108.34         -         -           1-9/16         1.5625         108.46         121.76         -         -           1-5/8         1.6250         116.02         127.72         -         -           1-3/4         1.7500         132.56         146.12         -         -           1-3/4         1.8750	3/4	.7500	40.88	49.08	-	-	
15/16         .9375         47.00         60.24         -         -           1         1.0000         49.78         63.80         -         -           1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL FOR PRICE           1-3/16         1.1875         57.38         78.66         FOR PRICE           1-1/4         1.2500         59.90         81.64         PRICE           1-5/16         1.3125         63.74         86.02         -           1-3/8         1.3750         82.38         90.54         -           1-7/16         1.4375         91.32         108.34         -           1-1/2         1.5000         97.40         108.34         -           1-9/16         1.5625         108.46         121.76         -           1-5/8         1.6250         116.02         127.72         -           1-11/16         1.6875         132.56         146.12         -           1-3/4         1.7500         132.56         141.96         -           1-7/8         1.8750         155.02         175.00	13/16	.8125	42.32	52.88	-	-	
1         1.0000         49.78         63.80         -         -           1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL FOR PRICE           1-3/16         1.1875         57.38         78.66         FOR PRICE           1-1/4         1.2500         59.90         81.64         PRICE           1-5/16         1.3125         63.74         86.02         -           1-3/8         1.3750         82.38         90.54         -           1-7/16         1.4375         91.32         108.34         -           1-1/2         1.5000         97.40         108.34         -           1-9/16         1.5625         108.46         121.76         -           1-5/8         1.6250         116.02         127.72         -           1-11/16         1.6875         132.56         146.12         -           1-3/4         1.7500         132.56         141.96         -           1-7/8         1.8750         155.02         175.00         -           1-15/16         1.9375         163.66         183.76         -	7/8	.8750	44.76	57.28	-	-	
1-1/16         1.0625         54.46         70.94         -         -           1-1/8         1.1250         56.98         75.80         CALL FOR PRICE           1-3/16         1.1875         57.38         78.66         FOR PRICE           1-1/4         1.2500         59.90         81.64         PRICE           1-5/16         1.3125         63.74         86.02         -           1-3/8         1.3750         82.38         90.54         -           1-7/16         1.4375         91.32         108.34         -           1-1/2         1.5000         97.40         108.34         -           1-9/16         1.5625         108.46         121.76         -           1-5/8         1.6250         116.02         127.72         -           1-11/16         1.6875         132.56         146.12         -           1-3/4         1.7500         132.56         141.96         -           1-7/8         1.8750         155.02         175.00         -           1-15/16         1.9375         163.66         183.76         -           2         2.0000         175.66         171.66         -	15/16	.9375	47.00	60.24	-	-	
1-1/8         1.1250         56.98         75.80         CALL FOR PRICE           1-3/16         1.1875         57.38         78.66         FOR PRICE           1-1/4         1.2500         59.90         81.64         PRICE           1-5/16         1.3125         63.74         86.02         -           1-3/8         1.3750         82.38         90.54         -           1-7/16         1.4375         91.32         108.34         -           1-1/2         1.5000         97.40         108.34         -           1-9/16         1.5625         108.46         121.76         -           1-5/8         1.6250         116.02         127.72         -           1-11/16         1.6875         132.56         146.12         -           1-3/4         1.7500         132.56         141.96         -           1-7/8         1.8750         155.02         175.00         -           1-15/16         1.9375         163.66         183.76         -           2         2.0000         175.66         171.66         -           2-1/16         2.0625         205.80         229.26         -           2-1/8	1	1.0000	49.78	63.80	-	-	
1-3/16         1.1875         57.38         78.66         FOR PRICE         FOR PRICE           1-1/4         1.2500         59.90         81.64         FOR PRICE         FOR PRICE           1-5/16         1.3125         63.74         86.02         -         -           1-3/8         1.3750         82.38         90.54         -         -           1-7/16         1.4375         91.32         108.34         -         -           1-1/2         1.5000         97.40         108.34         -         -           1-9/16         1.5625         108.46         121.76         -         -           1-5/8         1.6250         116.02         127.72         -         -           1-11/16         1.6875         132.56         146.12         -         -           1-3/4         1.7500         132.56         141.96         -         -           1-7/8         1.8750         155.02         175.00         -         -           1-15/16         1.9375         163.66         183.76         -         -           2         2.0000         175.66         171.66         -         -           2-1/16         <	1-1/16	1.0625	54.46	70.94	-	-	
1-1/4         1.2500         59.90         81.64         PRICE         PRICE           1-5/16         1.3125         63.74         86.02         -         -           1-3/8         1.3750         82.38         90.54         -         -           1-7/16         1.4375         91.32         108.34         -         -           1-1/2         1.5000         97.40         108.34         -         -           1-9/16         1.5625         108.46         121.76         -         -           1-5/8         1.6250         116.02         127.72         -         -           1-5/8         1.6250         116.02         127.72         -         -           1-11/16         1.6875         132.56         146.12         -         -           1-3/4         1.7500         132.56         141.96         -         -           1-7/8         1.8750         155.02         175.00         -         -           1-15/16         1.9375         163.66         183.76         -         -           2         2.0000         175.66         171.66         -         -           2-1/16         2.0625	1-1/8	1.1250	56.98	75.80	CALL	CALL	
1-5/16       1.3125       63.74       86.02       -       -         1-3/8       1.3750       82.38       90.54       -       -         1-7/16       1.4375       91.32       108.34       -       -         1-1/2       1.5000       97.40       108.34       -       -         1-9/16       1.5625       108.46       121.76       -       -         1-5/8       1.6250       116.02       127.72       -       -         1-11/16       1.6875       132.56       146.12       -       -         1-3/4       1.7500       132.56       141.96       -       -         1-13/16       1.8125       155.40       163.34       -       -         1-7/8       1.8750       155.02       175.00       -       -         1-15/16       1.9375       163.66       183.76       -       -         2       2.0000       175.66       171.66       -       -         2-1/16       2.0625       205.80       229.26       -       -         2-1/8       2.1250       236.04       257.44       -       -	1-3/16	1.1875	57.38	78.66		_	
1-3/8       1.3750       82.38       90.54       -       -         1-7/16       1.4375       91.32       108.34       -       -         1-1/2       1.5000       97.40       108.34       -       -         1-9/16       1.5625       108.46       121.76       -       -         1-5/8       1.6250       116.02       127.72       -       -         1-11/16       1.6875       132.56       146.12       -       -         1-3/4       1.7500       132.56       141.96       -       -         1-13/16       1.8125       155.40       163.34       -       -         1-7/8       1.8750       155.02       175.00       -       -         1-15/16       1.9375       163.66       183.76       -       -         2       2.0000       175.66       171.66       -       -         2-1/16       2.0625       205.80       229.26       -       -         2-1/8       2.1250       236.04       257.44       -       -	1-1/4	1.2500	59.90	81.64	PRICE	PRICE	
1-7/16       1.4375       91.32       108.34       -       -         1-1/2       1.5000       97.40       108.34       -       -         1-9/16       1.5625       108.46       121.76       -       -         1-5/8       1.6250       116.02       127.72       -       -         1-11/16       1.6875       132.56       146.12       -       -         1-3/4       1.7500       132.56       141.96       -       -         1-13/16       1.8125       155.40       163.34       -       -         1-7/8       1.8750       155.02       175.00       -       -         1-15/16       1.9375       163.66       183.76       -       -         2       2.0000       175.66       171.66       -       -         2-1/16       2.0625       205.80       229.26       -       -         2-1/8       2.1250       236.04       257.44       -       -	1-5/16	1.3125	63.74	86.02	-	_	
1-1/2       1.5000       97.40       108.34       -       -         1-9/16       1.5625       108.46       121.76       -       -         1-5/8       1.6250       116.02       127.72       -       -         1-11/16       1.6875       132.56       146.12       -       -         1-3/4       1.7500       132.56       141.96       -       -         1-13/16       1.8125       155.40       163.34       -       -         1-7/8       1.8750       155.02       175.00       -       -         1-15/16       1.9375       163.66       183.76       -       -         2       2.0000       175.66       171.66       -       -         2-1/16       2.0625       205.80       229.26       -       -         2-1/8       2.1250       236.04       257.44       -       -	1-3/8	1.3750	82.38	90.54	-	-	
1-9/16     1.5625     108.46     121.76     -     -       1-5/8     1.6250     116.02     127.72     -     -       1-11/16     1.6875     132.56     146.12     -     -       1-3/4     1.7500     132.56     141.96     -     -       1-13/16     1.8125     155.40     163.34     -     -       1-7/8     1.8750     155.02     175.00     -     -       1-15/16     1.9375     163.66     183.76     -     -       2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-7/16	1.4375	91.32	108.34	-	-	
1-5/8     1.6250     116.02     127.72     -     -       1-11/16     1.6875     132.56     146.12     -     -       1-3/4     1.7500     132.56     141.96     -     -       1-13/16     1.8125     155.40     163.34     -     -       1-7/8     1.8750     155.02     175.00     -     -       1-15/16     1.9375     163.66     183.76     -     -       2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-1/2	1.5000	97.40	108.34	-	-	
1-11/16     1.6875     132.56     146.12     -     -       1-3/4     1.7500     132.56     141.96     -     -       1-13/16     1.8125     155.40     163.34     -     -       1-7/8     1.8750     155.02     175.00     -     -       1-15/16     1.9375     163.66     183.76     -     -       2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-9/16	1.5625	108.46	121.76	-	-	
1-3/4     1.7500     132.56     141.96     -     -       1-13/16     1.8125     155.40     163.34     -     -       1-7/8     1.8750     155.02     175.00     -     -       1-15/16     1.9375     163.66     183.76     -     -       2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-5/8	1.6250	116.02	127.72	-	-	
1-13/16     1.8125     155.40     163.34     -     -       1-7/8     1.8750     155.02     175.00     -     -       1-15/16     1.9375     163.66     183.76     -     -       2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-11/16	1.6875	132.56	146.12	-	-	
1-7/8     1.8750     155.02     175.00     -     -       1-15/16     1.9375     163.66     183.76     -     -       2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-3/4	1.7500	132.56	141.96	-	-	
1-15/16     1.9375     163.66     183.76     -     -       2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-13/16	1.8125	155.40	163.34	-	-	
2     2.0000     175.66     171.66     -     -       2-1/16     2.0625     205.80     229.26     -     -       2-1/8     2.1250     236.04     257.44     -     -	1-7/8	1.8750	155.02	175.00	-	-	
2-1/16 2.0625 205.80 229.26	1-15/16	1.9375	163.66	183.76	-	-	
2-1/8 2.1250 236.04 257.44	2	2.0000	175.66	171.66	-	-	
	2-1/16	2.0625	205.80	229.26	-	-	
2-3/16   2.1875   237.82   263.24   -   -	2-1/8	2.1250	236.04	257.44	-	-	
	2-3/16	2.1875	237.82	263.24		<u> </u>	

			DEPTH	OF CUT		
DEC.		1"	2"	3"	4"	
SIZE	EQUIV.	AC1D	AC2D	AC3D	AC4D	
2-1/4	2.2500	245.02	270.94	-	-	
2-5/16	6 2.3125 253.26		277.60	-	-	
2-3/8	3/8 2.3750 258.80		285.38	-	-	
2-7/16	2.4375	264.32	293.08	-	-	
2-1/2	2.5000	270.94	301.92	-	-	
2-9/16	2.5625	276.52	309.70	-	-	
2-5/8	2.6250	284.22	315.20	-	-	
2-11/16	2.6875	289.78	322.96	-	-	
2-3/4	2.7500	-	330.68	-	-	
2-13/16	2.8125	303.06	337.30	-	-	
2-7/8	2.8750	309.70	343.94	-	-	
2-15/16	2.9375	316.32	351.72	CALL	CALL	
3	3.0000	-	-	FOR	FOR	
3-1/16	3.0625	-	-	PRICE	PRICE	
3-1/8	3.1250	-	-	-	-	
3-3/16	3.1875	-	-	-	-	
3-1/4	3.2500	-	-	-	-	
3-5/16	3.3125	-	-	-	-	
3-3/8	3.3750	CALL	CALL	-	-	
3-7/16	3.4375	FOR	FOR	-	-	
3-1/2	3.5000	PRICE	PRICE	-	-	
3-9/16	3.5625	-	-	-	-	
3-5/8	3.6250	-	-	-	-	
3-11/16	3.6875	-	-	-	-	
3-3/4	3.7500	-	-	-	-	
3-13/16	3.8125	-	-	-	-	
3-7/8	3.8750	-	-	-	-	
3-15/16	3.9375	-	-	-	-	
4	4.0000	-	-	-		