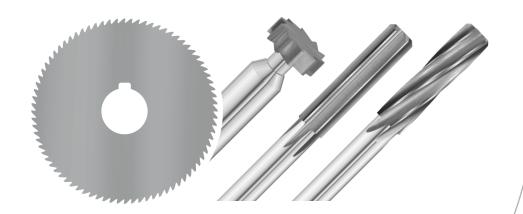
FULLERT



JIT SERVICES

989.799.4550 | 800.248.8315 sales@fullertontool.com **fullertontool.com**



JIT Reamers

1410 JIT Decimal Size Reamers



Straight Flutes For all types of general reaming applications.



RH Spiral Flutes

For blind holes and abrasive, ductile materials. Do not use for holes with interruptions unless material is reasonably soft.



LH Spiral Flutes

Produces better finishes on hard materials such as heat-treated steels. Shear action is excellent for holes with interruptions, e.g., keyways, elongated slots, etc.











- Straight Flute Standard Sizes available in 1400 Series Stub
- Available with Coatings at Tolerances as Low as .0001" (Additional Charges May Apply)
- Manufactured using Female and Male Centers for improved concentricity
- Male Centers on items up to .1124" (2.86mm)

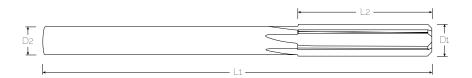
SAME DAY DELIVERY IF ORDERED BY 11AM EST ADD 20% TO PRICE.

TOLERANCE: SHANK DIAMETER: +.0005" -.0005" +.013_{MM} -.013мм **CUTTING DIAMETER:** UP TO .2500" +.0002" -.0000" OVER .2501" +.0003" -.0000" **UP TO 6.35MM** +.005_{MM} -.000мм **OVER 6.351MM** +.008_{MM} -.000_{MM} .0001" TOLERANCES AVAILABLE (+20%)









SIZE RANGE	CTVLF	1.2	D3	1.1	FLUTEC	EDP Number				
D1	STYLE	L2	D2	L1	FLUTES	ST	RH	LH		
.03120394	STB	3/8	.0312	1 1/2	4	1410S01	1410R01	1410L01		
.03950484	STB	3/8	.0312	1 1/2	4	1410S02	1410R02	1410L02		
.04850574	STB	3/8	.0469	1 1/2	4	1410S03	1410R03	1410L03		
.05750654	STB	3/8	.0469	1 1/2	4	1410S04	1410R04	1410L04		
.06550804	STB	1/2	.0625	2	4	1410S05	1410R05	1410L05		
.08050964	STB	1/2	.0781	2	4	1410S06	1410R06	1410L06		
.09651124	STB	5/8	.0938	2 1/4	4	1410S07	1410R07	1410L07		
.11251284	STB	5/8	.1094	2 1/4	4	1410S08	1410R08	1410L08		
.12851444	STB	3/4	.1250	2 1/2	4	1410S09	1410R09	1410L09		
.14451594	STB	3/4	.1406	2 1/2	4	1410S10	1410R10	1410L10		
.15951744	STB	7/8	.1562	2 3/4	4	1410S11	1410R11	1410L11		
.17451914	STB	7/8	.1719	2 3/4	4	1410S12	1410R12	1410L12		
.19152234	STB	1	.1875	3	6	1410S13	1410R13	1410L13		
.22352544	STB	1	.2188	3	6	1410S14	1410R14	1410L14		
.25452844	STB	1 1/8	.2500	3 1/4	6	1410S15	1410R15	1410L15		
.28453164	STB	1 1/8	.2812	3 1/4	6	1410S16	1410R16	1410L16		
.31653484	STB	1 1/4	.3125	3 1/2	6	1410S17	1410R17	1410L17		
.34853794	STB	1 1/4	.3438	3 1/2	6	1410S18	1410R18	1410L18		
.37954104	STB	1 1/2	.3750	4	6	1410S19	1410R19	1410L19		
.41054414	STB	1 1/2	.4062	4	6	1410S20	1410R20	1410L20		
.44154724	STB	1 1/2	.4375	4	6	1410S21	1410R21	1410L21		
.47255054	STB	1 1/2	.4688	4	6	1410S22	1410R22	1410L22		

Due to temperatures reached in the coating process, Fullerton Tool cannot guarantee concentricity on reamers with Cutting Diameter .3485" and over.

JIT Reamers

1450 JIT Decimal Size Reamers

Straight Flutes

For all types of general reaming applications.

RH Spiral Flutes

For blind holes and abrasive, ductile materials. Do not use for holes with interruptions unless material is reasonably soft.

LH Spiral Flutes

Produces better finishes on hard materials such as heat-treated steels. Shear action is excellent for holes with interruptions, e.g., keyways, elongated slots, etc.











- Straight Flute Standard Sizes available in 1400 Series Standard
- Available with Coatings at Tolerances as Low as .0001" (Additional Charges May Apply)
- Steel Shanks on items with Cutting Diameter .3485" and over Female Centers.

24-HOUR

JUST IN TIME

DELIVERY

ALL STYLES

SAME DAY DELIVERY IF ORDERED BY 11AM EST ADD **20**% to price.

TOLERANCE:

1/2" DIAMETER SHANK:

+.0000" +.013_{MM}

-.0005" -.013_{MM}

CUTTING HEAD DIAMETER:

3/8" - 3/4" DIA 7/8" - 1 1/2" DIA +.0100"

-.0150"

FACE WIDTH:

+.0120" +.0000" -.0170"

NECK LENGTH:

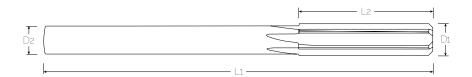
1/4"

-.0005"







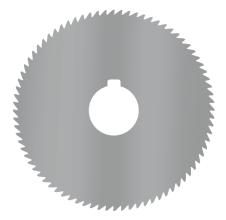


SIZE RANGE	CTVLF	1.2	D2	1.1	FLUTEC	STEEL		EDP Number	
D1	STYLE	L2	D2	L1	FLUTES	SHANK	D1	RH	LH
.11051284	SD	7/8	.1094	3 1/2	4		1450S01	1450R01	1450L01
.12851444	SD	7/8	.1250	3 1/2	4		1450S02	1450R02	1450L02
.14451594	SD	1	.1406	4	4		1450S03	1450R03	1450L03
.15951744	SD	1	.1562	4	4		1450S04	1450R04	1450L04
.17451914	SD	1 1/8	.1719	4 1/2	4		1450S05	1450R05	1450L05
.19152234	SD	1 1/4	.1875	5	6		1450S06	1450R06	1450L06
.22352544	SD	1 1/2	.2188	6	6		1450S07	1450R07	1450L07
.25452844	SD	1 1/2	.2500	6	6		1450S08	1450R08	1450L08
.28453164	SD	1 5/8	.2812	6	6		1450S09	1450R09	1450L09
.31653484	SD	1 5/8	.3125	6	6		1450S10	1450R10	1450L10
.34853794	SD	1 3/4	.3438	7	6	✓	1450S11	1450R11	1450L11
.37954104	SD	1 3/4	.3750	7	6	✓	1450S12	1450R12	1450L12
.41054414	SD	1 3/4	.4062	7	6	✓	1450S13	1450R13	1450L13
.44154724	SD	1 3/4	.4375	8	6	\checkmark	1450S14	1450R14	1450L14
.47255054	SD	1 3/4	.4688	8	6	✓	1450S15	1450R15	1450L15
.50555360	SD	1 7/8	.5000	9	6	✓	1450S16	1450R16	1450L16
.53615670	SD	1 7/8	.5000	9	6	✓	1450S16B	1450R16B	1450L16B
.56715990	SD	1 7/8	.5625	9	6	✓	1450S17	1450R17	1450L17
.59916300	SD	1 7/8	.5625	9	6	✓	1450S17B	1450R17B	1450L17B
.63016630	SD	2	.6250	9 1/2	6	✓	1450S18	1450R18	1450L18
.66316930	SD	2	.6250	9 1/2	6	✓	1450S18B	1450R18B	1450L18B
.69317250	SD	2	.6875	9 1/2	6	✓	1450S19	1450R19	1450L19
.72517560	SD	2	.6875	9 1/2	6	✓	1450S19B	1450R19B	1450L19B
.75617870	SD	2	.7500	10	8	✓	1450S20	1450R20	1450L20
.78718190	SD	2	.7812	10	8	✓	1450S21	1450R21	1450L21
.81918500	SD	2	.8125	10	8	✓	1450S22	1450R22	1450L22
.85018820	SD	2	.8438	10	8	✓	1450S23	1450R23	1450L23
.88219120	SD	2	.8750	10	8	✓	1450S24	1450R24	1450L24
.91219440	SD	2	.9062	10	8	✓	1450S25	1450R25	1450L25
.94419760	SD	2	.9375	10	8	✓	1450S26	1450R26	1450L26
.9761 - 1.0100	SD	2	.9688	10	8	✓	1450S27	1450R27	1450L27

Due to temperatures reached in the coating process, Fullerton Tool cannot guarantee concentricity on reamers with Cutting Diameter .3485" and over.

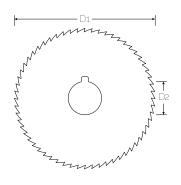
2450 Saws

2450 JIT Solid Carbide Saws



For Size Ranges: .25 - 3"

1-12 pieces, 24- Hours 13-25 pieces, 48-Hours 26-49 pieces, 5 Working Days 50+ pieces, Contact Fullerton Tool



For Size Ranges: > 3"

1-6 pieces, 24- Hours 7-12 pieces, 48-Hours 13-25 pieces, 5 Working Days 26-49 pieces, 10 Working Days 50+ pieces, Contact Fullerton Tool





1/4 - 6" Outside Diameters (OD) Available 1/8 - 1" Inside Diameter Available Depending on OD Size .0060 - .2500" Thickness Available Depending on OD Size .0005" Concavity per Inch of Diameter for Clearance

TOLERANCE: CUTTING DIAMETER: HOLE DIAMETER: THICKNESS:

+.0150" -.0150" +.0005" -.0000"

+.00025" -.00025"







D1	CIZE DANCE	Di	TEETU	EDP Number
D1	SIZE RANGE	D2	TEETH	UC
1/4	.01000350	1/8	12	2450001
5/16	.01000350	1/8	12	2450002
3/8	.00600259	1/8	14	2450003
3/0	.02600630	1/8	14	2450004
1/2	.00600349	3/16	14	2450005
1/2	.03500630	3/16	14	2450006
	.00600149	1/4	16	2450007
5/8	.01500409	1/4	16	2450008
	.04100630	1/4	16	2450009
	.00600149	1/4	18	2450010
	.01500409	1/4	18	2450011
3/4	.04100639	1/4	18	2450012
	.06400949	1/4	18	2450013
	.09501300	1/4	18	2450014
	.01000199	1/4	20	2450015
	.02000409	1/4	20	2450018
	.04100639	1/4	20	2450021
	.06400949	1/4	20	2450024
	.09501300	1/4	20	2450027
	.01000199	5/16	20	2450016
	.02000409	5/16	20	2450019
1	.04100639	5/16	20	2450022
	.06400949	5/16	20	2450025
	.09501300	5/16	20	2450028
	.01000199	3/8	20	2450017
	.02000409	3/8	20	2450020
	.04100639	3/8	20	2450023
	.06400949	3/8	20	2450026
	.09501300	3/8	20	2450029
	.01000199	5/16	24	2450031
	.02000459	5/16	24	2450034
	.04600639	5/16	24	2450037
	.06400949	5/16	24	2450040
	.09501300	5/16	24	2450043
	.01000199	3/8	24	2450030
1 1/4	.02000459	3/8	24	2450033
	.04600639	3/8	24	2450036
	.06400949	3/8	24	2450039
	.09501300	3/8	24	2450042
	.01000199	1/2	24	2450032
	.02000459	1/2	24	2450035
	.04600639	1/2	24	2450038
1 1/4	.04600639 .06400949 .09501300 .01000199 .02000459 .04600639 .06400949 .09501300 .01000199	5/16 5/16 5/16 5/16 3/8 3/8 3/8 3/8 3/8 1/2	24 24 24 24 24 24 24 24 24 24	2450040 2450043 2450030 2450033 2450036 2450039 2450042 2450032 2450035

EDP offering continued on next page. 800.248.8315 | fullertontool.com

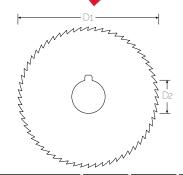
2450 Saws

2450 JIT Solid Carbide Saws

D4	CIZE DANCE	0.3	TEETU	EDP Number
D1	SIZE RANGE	D2	TEETH	UC
1 1/4	.06400949	1/2	24	2450041
1 1/4	.09501300	1/2	24	2450044
	.01000199	1/2	36	2450045
	.02000459	1/2	36	2450046
1 1/2	.04600639	1/2	36	2450047
	.06400949	1/2	36	2450048
	.09501300	1/2	36	2450049
	.01000199	1/2	38	2450050
	.02000459	1/2	38	2450051
1 3/4	.04600639	1/2	38	2450052
	.06400949	1/2	38	2450053
	.09501300	1/2	38	2450054
	.01000199	1/2	40	2450055
	.02000459	1/2	40	2450057
	.04600639	1/2	40	2450059
	.06400949	1/2	40	2450061
2	.09501300	1/2	40	2450063
2	.01000199	1	40	2450056
	.02000459	1	40	2450058
	.04600639	1	40	2450060
	.06400949	1	40	2450062
	.09501300	1	40	2450064
	.01000199	5/8	44	2450065
	.02000459	5/8	44	2450067
	.04600639	5/8	44	2450069
	.06400949	5/8	44	2450071
2.4/4	.09501300	5/8	44	2450073
2 1/4	.01000199	1	44	2450066
	.02000459	1	44	2450068
	.04600639	1	44	2450070
	.06400949	1	44	2450072
	.09501300	1	44	2450074







D1	CIZE DANCE	D.3	TEETU	EDP Number
D1	SIZE RANGE	D2	TEETH	UC
	.01000199	1	48	2450075
	.02000459	1	48	2450076
2 1/2	.04600639	1	48	2450077
	.06400949	1	48	2450078
	.09501300	1	48	2450079
	.01000199	1	60	2450080
	.02000459	1	60	2450081
2 3/4	.04600649	1	60	2450082
	.06500949	1	60	2450083
	.09501300	1	60	2450084
	.01000199	1	72	2450085
	.02000459	1	72	2450086
	.04600649	1	72	2450087
3	.06500949	1	72	2450088
	.09501259	1	72	2450089
	.12601889	1	72	2450090
	.18902500	1	72	2450091
	.02000399	1	76	2450092
3 1/2	.04000649	1	76	2450093
3 1/2	.06500949	1	76	2450094
	.09501300	1	76	2450095
	.02000399	1	80	2450096
	.04000639	1	80	2450097
4	.06400949	1	80	2450098
4	.09501259	1	80	2450099
	.12601889	1	80	2450100
	.18902500	1	80	2450101
	.04500639	1	100	2450102
5	.06400949	1	100	2450103
	.09501300	1	100	2450104
	.04500639	1	120	2450105
6	.06400949	1	120	2450106
	.09501300	1	120	2450107

JIT Keyseat Cutters

4375 | 4375E Keyseat Cutters



Straight Flutes

½" Diameter Steel Shank
1 ½ - 1 ½" Cutter Diameter are Solid Carbide Dura Carb III

Need a different size? We can alter our Keyseat Cutter face widths per your requirements. Contact us at **800.248.8315** or **sales@fullertontool.com** for more information.





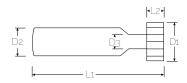


TOLERANCE: 1/2" DIAMETER SHANK: +.0000" -.0005" +.013MM -.013MM **CUTTING HEAD DIAMETER:** 3/8" - 3/4" DIA +.0100" -.0150" 7/8" - 1 1/2" DIA +.0120" -.0170" FACE WIDTH: +.0000" -.0005" **NECK LENGTH:** 1/4"







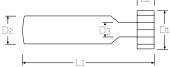


D1	AMERICAN STANDARDS	L2	D3	D2	L1	FLUTES	SOLID CARBIDE	EDP Number
DI	NUMBER	LL	D3	UL.	L	TEOTES	SHANK	UC
		1/32	.2030	1/2	2 1/32	8		43900
		3/64	.2030	1/2	2 3/64	8		43901
3/8	203	1/16	.2030	1/2	2 1/16	8		43302
	303	3/32	.2030	1/2	2 3/32	8		43303
	403	1/8	.2030	1/2	2 1/8	8		43403
		1/32	.2500	1/2	2 1/32	10		43902
		3/64	.2500	1/2	2 3/64	10		43903
	204	1/16	.2500	1/2	2 1/16	10		43240
1/2		5/64	.2500	1/2	2 5/64	10		43904
	304	3/32	.2500	1/2	2 3/32	10		43304
		7/64	.2500	1/2	2 7/64	10		43905
	404	1/8	.2500	1/2	2 1/8	10		43404
		1/32	.2810	1/2	2 1/32	10		43906
		3/64	.2810	1/2	2 3/64	10		43907
		1/16	.2810	1/2	2 1/16	10		43908
		5/64	.2810	1/2	2 5/64	10		43909
5/8	305	3/32	.2810	1/2	2 3/32	10		43305
5/6		7/64	.2810	1/2	2 7/64	10		43910
	405	1/8	.2810	1/2	2 1/8	10		43405
		9/64	.2810	1/2	2 9/64	10		43911
	505	5/32	.2810	1/2	2 5/32	10		43505
	605	3/16	.2810	1/2	2 3/16	10		43605
		1/32	.2810	1/2	2 1/32	10		43912
		3/64	.2810	1/2	2 3/64	10		43913
		1/16	.2810	1/2	2 1/16	10		43914
		5/64	.2810	1/2	2 5/64	10		43915
		3/32	.2810	1/2	2 3/32	10		43916
		7/64	.2810	1/2	2 7/64	10		43917
3/4	406	1/8	.2810	1/2	2 1/8	10		43406
3/4		9/64	.2810	1/2	2 9/64	10		43918
	506	5/32	.2810	1/2	2 5/32	10		43506
	606	3/16	.2810	1/2	2 3/16	10		43606
		13/64	.2810	1/2	2 13/64	10		43919
		7/32	.2810	1/2	2 7/32	10		43920
		15/64	.2810	1/2	2 15/64	10		43921
	806	1/4	.2810	1/2	2 1/4	10		43806

EDP offering continued on next page.

JIT Keyseat Cutters

4375 | 4375E Keyseat Cutters



D1 STANDARDS NUMBER	UC 43922 43923 43507 43607 43707 43807 43924 43925
7/8 1/8 .2810 1/2 2 1/8 12 507 5/32 .2810 1/2 2 5/32 12 607 3/16 .2810 1/2 2 3/16 12 707 7/32 .2810 1/2 2 7/32 12 807 1/4 .2810 1/2 2 1/4 12 1/32 .2810 1/2 2 1/32 12 3/64 .2810 1/2 2 3/64 12	43923 43507 43607 43707 43807 43924 43925
7/8	43507 43607 43707 43807 43924 43925
7/8 607 3/16 .2810 1/2 23/16 12 707 7/32 .2810 1/2 27/32 12 807 1/4 .2810 1/2 21/4 12 1/32 .2810 1/2 21/32 12 3/64 .2810 1/2 23/64 12	43607 43707 43807 43924 43925
807 1/4 .2810 1/2 2 1/32 12 807 1/4 .2810 1/2 2 1/32 12 1/32 .2810 1/2 2 1/32 12 3/64 .2810 1/2 2 1/32 12 3/64 .2810 1/2 2 3/64 12	43707 43807 43924 43925
807 1/4 .2810 1/2 2 1/4 12 1/32 .2810 1/2 2 1/32 12 3/64 .2810 1/2 2 3/64 12	43807 43924 43925
1/32 .2810 1/2 2 1/32 12 3/64 .2810 1/2 2 3/64 12	43924 43925
3/64 .2810 1/2 2 3/64 12	43925
1/16 .2810 1/2 2 1/16 12	42026
	43926
5/64 .2810 1/2 2 5/64 12	43927
3/32 .2810 1/2 2.3/32 12	43928
1/8 .2810 1/2 2 1/8 12	43929
5/32 .2810 1/2 2.5/32 12	43930
608 3/16 .2810 1/2 2 3/16 12	43608
708 7/32 .2810 1/2 2 7/32 12	43708
808 1/4 .2810 1/2 2 1/4 12	43808
1/8 .2810 1/2 2.1/8 14 ✓	43931
1 1/0 609 3/16 .2810 1/2 2 3/16 14 ✓	43609
1 1/8 709 7/32 .2810 1/2 2 7/32 14 ✓	43709
809 1/4 .2810 1/2 21/4 14 ✓	43809
1/32 .2810 1/2 2 1/32 14 ✓	43932
1/16 .2810 1/2 2 1/16 14 ✓	43933
3/32 .2810 1/2 2.3/32 14 ✓	43934
1/4 1/8 .2810 1/2 21/8 14 ✓	43935
5/32 .2810 1/2 2 5/32 14	43936
610 3/16 .2810 1/2 2 3/16 14 ✓	43610
710 7/32 .2810 1/2 2.7/32 14 ✓	43710
810 1/4 .2810 1/2 21/4 14 ✓	43810
1/32 .3750 1/2 2 1/32 16 ✓	43937
1/16 .3750 1/2 2 1/16 16 ✓	43938
3/32 .3750 1/2 23/32 16 ✓	43939
1/8 .3750 1/2 21/8 16 ✓	43940
3/16 .3750 1/2 23/16 16 ✓	43941
812 1/4 .3750 1/2 2 1/4 16 ✓	43812
1012 5/16 .3750 1/2 2 5/16 16 ✓	43000
1212 3/8 .3750 1/2 23/8 16 ✓	43212



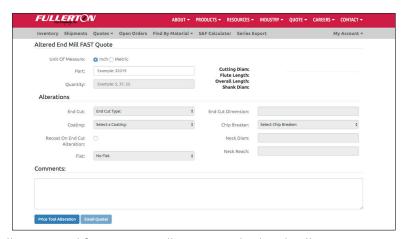




Altered End Mill FAST Quotes

Get Pricing Instantly with FAST Quotes!

With our new **Altered End Mill FAST Quotes** you can type in almost any standard end mill part number, make slight modifications and generate instant pricing and lead times.



Make the following modifications to Fullerton standard end mills:

- Corner Radius
- Neck Relief
- Coatings
- Weldon Flats
- Chipbreakers

Need more than slight alterations? Our **Special End Mills FAST Quote** tool will also generate instant pricing and turnaround time.

You can find both of those quoting tools under FAST Quotes in the top grey bar of our website when logged in. You must have a Fullerton account to access **FAST Quotes**. If you don't have an account already, you can visit **fullertontool.com** and select **Login In/Sign Up**.

Speeds & Feeds

Saw Speeds & Feeds

	SFM (I	ft/min)	Low Si Aluminum <10% (1200-1500) SFM (ft/min)	High Si Aluminum >10% Gradini (750-1000) SFM (ft/min)	Composites (0-0) SFM (ft/min)	Plastics (1500-2000) SFM (ft/min)	Brass & Copper du (400-550) SFM (ft/min)	Graphite (0-0) SFM (ft/min)	Cast Iron bujiti (150-350) SFM (ft/min)	Hardened Steel > 48RC (60-140) SFM (ft/min)	Mild Steels < 48 RC bir (150-400) SFM (ft/min)	Stainless Steels (75-175) SFM (ft/min)	Super Alloys 60-150) SFM (ft/min)	Titanium (75-200) SFM (ft/min)
1	Diameter	# of Teeth	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough
1	1/4	12	.0040	-	.0040	.0040	.0040	.0040	.0030	.0020	.0020	.0020	.0020	.0020
1	5/16	12	.0042	-	.0042	.0042	.0042	.0042	.0033	.0021	.0021	.0021	.0021	.0021
	3/8	14	.0045	-	.0045	.0045	.0045	.0045	.0035	.0022	.0022	.0022	.0022	.0022
	1/2	14	.0048	-	.0048	.0048	.0048	.0048	.0038	.0023	.0023	.0023	.0023	.0023
	5/8	16	.0050	-	.0050	.0050	.0050	.0050	.0040	.0024	.0024	.0024	.0024	.0024
1	3/4	18	.0052	-	.0052	.0052	.0052	.0052	.0042	.0025	.0025	.0025	.0025	.0025
	1	20	.0055	-	.0055	.0055	.0055	.0055	.0045	.0026	.0026	.0026	.0026	.0026
1	1 1/4	24	.0058	-	.0058	.0058	.0058	.0058	.0049	.0027	.0027	.0027	.0027	.0027
	1 1/2	36	.00 🚾	-	.0060	.0060	.0060	.0060	.0050	.0028	.0028	.0028	.0028	.0028
	1 3/4	38	.00	-	.0062	.0062	.0062	.0062	.0052	.0029	.0029	.0029	.0029	.0029
	2	40	.00€	-	.0065	.0065	.0065	.0065	.0055	.0030	.0030	.0030	.0030	.0030
П	2 1/4	44	.00	-	.0068	.0068	.0068	.0068	.0058	.0033	.0033	.0031	.0031	.0031
	2 1/2	48	.00	-	.0070	.0070	.0070	.0070	.0060	.0035	.0035	.0032	.0032	.0032
П	2 3/4	60	.00/5	-	.0072	.0072	.0072	.0072	.0062	.0038	.0038	.0033	.0033	.0033
	3	72	.0075	-	.0075	.0075	.0075	.0075	.0065	.0040	.0040	.0034	.0034	.0034
П	3 1/2	76	.0078	-	.0078	.0078	.0078	.0078	.0068	.0042	.0042	.0035	.0035	.0035
	4	80	.0080	-	.0080	.0080	.0080	.0080	.0070	.0045	.0045	.0037	.0037	.0037
	5	100	.0080	-	.0080	.0080	.0080	.0080	.0070	.0048	.0048	.0039	.0039	.0039
	6	120	.0080	-	.0080	.0080	.0080	.0080	.0070	.0050	.0050	.0040	.0040	.0040
							IPT (in/toot	h)						

Keyseat Cutter Speeds & Feeds

SFM (I	it/min)	Low Si Aluminum <10% (1200-1500) SFM (ft/min)	High Si Aluminum >10% (750-1000) SFM (ft/min)	Composites (0-0) SFM (ft/min)	Plastics (1500-2000) SFM (ft/min)	Brass & Copper (400-550) SFM (ft/min)	Graphite (0-0) SFM (ft/min)	Cast Iron (150-350) SFM (ft/min)	Hardened Steel > 48RC (60-140) SFM (ft/min)	Mild Steels < 48 RC (150-400) SFM (ft/min)	Stainless Steels (75-175) SFM (ft/min)	Super Alloys (50-150) SFM (ft/min)	Titanium (75-200) SFM (ft/min)
		Slotting	Slotting	Slotting	Slotting	Slotting	Slotting	Slotting	Slotting	Slotting	Slotting	Slotting	Slotting
Diameter	# of Teeth	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough	Rough
10	8	.0325	.0407	-	.0332	.07452	-	.0582	.1558	.0727	.0540	.0686	.0665
12	10	.0305	. 🕰 3	-	.0296	.686	-	.0437	.1140	.0532	.0406	.0460	.0455
15	10	.0293		-	.0286	.6542	-	.0374	.0987	.0457	.0356	.0364	.0361
20	10	.0280	.🔂0	-	.0278	.🔂1	-	.0332	.0887	.0399	.0332	.0315	.0296
22	12	.0235	.₩0	-	.0232	.269	-	.0280	.0754	.0345	.0283	.0255	.0251
25	12	.0300	.0345	-	.0300	.6338	-	.0332	.0887	.0399	.0328	.0302	.0286
28	14	.0248	. 029 3	-	.0240	. 027 8	-	.0272	.0680	.0285	.0267	.0214	.0214
31	14	.0242	.0284	-	.0228	.0260	-	.0237	.0643	.0254	.0230	.0212	.0213
38	16	.0204	.0224	-	.0190	.0215	-	.0192	.0490	.0187	.0178	.0166	.0187
					М	MPT (mm/to	ooth)						



Reamer Speeds & Feeds

	Speed		Feed (IPR)				Feed (MMPR)	
Material	SFM	.1250	.2500	.5000	SMPM	3.00mm	6.00mm	12.00mm
High Si Aluminum >10%	75-200	.0040	.0080	.0120	22-60	.1016	.2032	.3048
Low Si Aluminum <10%	100-300	.0050	.0100	.0150	30-91	.1270	.2540	.3810
Composites	-	-	-	-				-
Plastics	-	-	-	-	-	-		-
Brass & Copper	75-150	.0030	.0040	.0060	22-45	.0762	.1016	.1524
Graphite	-	-	-	-	-	-		-
Cast Iron								
Soft	75-150	.0050	.0080	.0120	22-45	.1270	.2032	.3048
Medium	60-100	.0050	.0080	.0120	18-30	.1270	.2032	.3048
Malleable	40-100	.0030	.0060	.0100	12-30	.0762	.1524	.2540
Bronze	65-125	.0030	.0040	.0060	19-38	.0762	.1016	.1524
Hardened Steels	30-90	.0020	.0020	.0040	9-27	.0508	.0508	.1016
Steels								
Low Carbon	60-125	.0030	.0060	.0100	18-28	.0762	.1524	.2540
Medium Carbon	100-150	.0030	.0050	.0080	30-45	.0762	.1270	.2032
Stainless Steels								
Free Machining	50-90	.0050	.0080	.0120	15-27	.1270	.2032	.3048
Work Machining	30-75	.0030	.0060	.0100	9-22	.0762	.1524	.2540
Super Alloys	40-80	.0025	.0035	.0055	12-24	.0635	.0889	.1397
Titanium								
Soft	50-125	.0030	.0060	.0100	15-38	.0762	.1524	.2540
Hard	20-60	.0020	.0040	.0080	6-18	.0508	.1016	.2032

The parameters listed for tool series that are stocked uncoated are based on running an uncoated tool. If a coating is applied to the tools, the SMM can be increased by approximately 25%. All speed and feed recommendations should be considered only as a starting point. Start with conservative speeds and feeds while analyzing the rigidity of the process. Then cautiously progress incrementally to achieve optimum performance.



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ABOUT FULLERTON TOOL COMPANY

Fullerton Tool Company is a third-generation, family owned business that specializes in the design and production of solid carbide cutting tools for a wide variety of industries. Founded in 1942, the company manufactures high quality end mills, drills, reamers, burrs, saws, keyseat cutters and PCD tooling. Fullerton's Advanced Solutions Team (FAST) is the foundation of the company's commitment to continuously improve, innovate and provide vast product diversity. Fullerton is an ISO 9001:2015 certified company.



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