

AEROSPACE TOOLING

FULLERTON
A E R O S P A C E



Index

Product	Series	Page
Aircraft Reamer	1450	3
Pilot Reamer	1450P	4
Threaded Pilot Reamer	1450T	6
JIT Reamer	1410, 1450	8
Drill Reamer	8213	10
Dagger Drill	8413	12
Poly Drill	1566	14
MATRIX Drill	5566	15
Aircraft Ext Drill	8466	16
Carbide Pocket Scriber		17
Kevlar Router	1605	18
CFRP Router	1375	18
Burr Router	2600, 55600	19
Routers	1600-1650	20
MATRIX Routers	5500	21
Rivet Shaver	9000	23
Piloted Countersink	9100	23
Compression Router	1300	22
Honeycomb Router	1350	22
Brad Point Drill	8100	24
8 Facet Drill	8400	24
Core Drill	8650	25
Double Margin Drill	8500	25
Threaded Tooling		26
Rebating Router	1380	27



We have you covered.



fullertontool.com | 989.799.4550





24/HR Just-in-time delivery.

12 pieces or less. Order Deadline - 3:00pm est.

6" JIT Aircraft Reamers

Solid carbide, straight flute, chamfer end aircraft size available in 6" OAL.



**JITR
1450
AIRCRAFT
LENGTH
6" OAL**

SIZE RANGE	FLUTE LENGTH	SHANK	OAL	FLUTES	EDP ST
.1105 - .1284	1 1/4	.1094	4	4	1450S01A
.1285 - .1444	1 1/2	.1250	6	4	1450S02A
.1445 - .1594	1 1/2	.1406	6	4	1450S03A
.1595 - .1744	1 1/2	.1562	6	4	1450S04A
.1745 - .1914	1 1/2	.1719	6	4	1450S05A
.1915 - .2234	1 1/2	.1875	6	6	1450S06A
.2235 - .2544	1 1/2	.2188	6	6	1450S07
.2545 - .2844	1 1/2	.2500	6	6	1450S08
.2845 - .3164	1 5/8	.2812	6	6	1450S09
.3165 - .3484	1 5/8	.3125	6	6	1450S10
.3485 - .3794	1 3/4	.3438	6	6	1450S11A
.3795 - .4104	1 3/4	.3750	6	6	1450S12A
.4105 - .4414	1 3/4	.4062	6	6	1450S13A
.4415 - .4724	1 3/4	.4375	6	6	1450S14A
.4725 - .5054	1 3/4	.4688	6	6	1450S15A

TOLERANCES	DIAMETER		SHANK
	UP TO 1.0100"	+ .0002" - .0000"	+ .0005" - .0005"
	OVER 1.0100"	+ .0003" - .0000"	+ 0.013mm - 0.013mm
	UP TO 25.654mm	+ 0.005mm - 0.000mm	
	OVER 25.655mm	+ 0.008mm - 0.000mm	
.0001" Tolerances Available (+20%)			

NEW!

Solid carbide.



Don't see what you're looking for or need a slight alteration?
Please contact Quotes@fullertontool.com



Pilot Reamer

Ensure accurate and consistent hole sizing. Perfect for final sizing of critical component fits, with smooth finishes that adhere to aerospace & defense tolerances.

PART NUMBER EXPLANATION



Z

T

1

0

D

-

-

-

-

X

-

-

-

-

X

2

C

step reamer
prefix

blank code

<1.0"

large cutting diameter

pilot cutting diameter

length of
pilot X D

cutting

JTR
1450P
STANDARD
LENGTH
45°
Lead Angle
CUTTING

NO Female center on shank end

BLANK CODE	LOW Dia	HIGH Dia	Smallest Cutting	PILOT LENGTH	FLUTE LENGTH	OAL	SHANK SIZE	STEEL SHANK
	Head OD		Pilot OD		STEPS COMBINED			
01	0.1105	0.1284	0.1017	0.200	1.250"	4.0"	.1094"	
02	0.1285	0.1444	0.1182	0.200	1.500"	6.0"	.1250"	
03	0.1445	0.1594	0.1329	0.200	1.500"	6.0"	.1406"	
04	0.1595	0.1744	0.1467	0.200	1.500"	6.0"	.1562"	
05	0.1745	0.1914	0.1605	0.200	1.500"	6.0"	.1719"	
06	0.1915	0.2234	0.1762	0.200	1.500"	6.0"	.1875"	
07	0.2235	0.2544	0.2056	0.200	1.500"	6.0"	.2188"	
08	0.2545	0.2844	0.2341	0.300	1.500"	6.0"	.2500"	
09	0.2845	0.3164	0.2617	0.300	1.625"	6.0"	.2812"	
10	0.3165	0.3484	0.2912	0.300	1.625"	6.0"	.3125"	
11	0.3485	0.3794	0.3206	0.300	1.750"	6.0"	.3438"	X
12	0.3795	0.4104	0.3491	0.400	1.750"	6.0"	.3750"	X
13	0.4105	0.4414	0.3777	0.400	1.750"	6.0"	.4062"	X
14	0.4415	0.4724	0.4062	0.400	1.750"	6.0"	.4375"	X
15	0.4725	0.5054	0.4347	0.400	1.750"	6.0"	.4688"	X
16	0.5055	0.5360	0.4725	0.400	1.750"	6.0"	.5000"	X
17	0.5361	0.5670	0.5025	0.400	1.875"	6.0"	.5000"	X
18	0.5671	0.5990	0.5325	0.400	1.875"	6.0"	.5625"	X
19	0.5991	0.6250	0.5625	0.400	1.875"	6.0"	.5625"	X

TOLERANCES	DIAMETER		SHANK
	UP TO 1.0100"	+ .0002" - .0000"	+ .0005" - .0005"
	UP TO 25.654mm	+0.005mm-0.000mm	



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Pilot Reamer

Ensure accurate and consistent hole sizing. Perfect for final sizing of critical component fits, with smooth finishes that adhere to aerospace & defense tolerances.

PART NUMBER EXPLANATION



Z

T

1

0

D

-

-

-

-

X

-

-

-

-

X

2

N

step reamer
prefix

blank code

<1.0"

large cutting diameter

pilot cutting diameter

length of
pilot X D

NON
cutting

JTR
1450P
STANDARD
LENGTH
45°
Lead Angle
NON-CUTTING

	BLANK CODE	LOW Dia	HIGH Dia	Smallest Cutting	PILOT LENGTH	FLUTE LENGTH	OAL	SHANK SIZE	STEEL SHANK
		Head OD		Pilot OD		STEPS COMBINED			
	01	0.1105	0.1284	0.0829	0.200	1.250"	4.0	.1094	
	02	0.1285	0.1444	0.0964	0.200	1.500"	6.0	.1250	
	03	0.1445	0.1594	0.1084	0.200	1.500"	6.0	.1406	
	04	0.1595	0.1744	0.1196	0.200	1.500"	6.0	.1562	
	05	0.1745	0.1914	0.1309	0.200	1.500"	6.0	.1719	
	06	0.1915	0.2234	0.1436	0.200	1.500"	6.0	.1875	
	07	0.2235	0.2544	0.1676	0.200	1.500"	6.0	.2188	
	08	0.2545	0.2844	0.1909	0.300	1.500"	6.0	.2500	
	09	0.2845	0.3164	0.2134	0.300	1.625"	6.0	.2812	
	10	0.3165	0.3484	0.2374	0.300	1.625"	6.0	.3125	
NO Female center on shank end	11	0.3485	0.3794	0.2614	0.300	1.750"	6.0	.3438	X
	12	0.3795	0.4104	0.2846	0.400	1.750"	6.0	.3750	X
	13	0.4105	0.4414	0.3079	0.400	1.750"	6.0	.4062	X
	14	0.4415	0.4724	0.3311	0.400	1.750"	6.0	.4375	X
	15	0.4725	0.5054	0.3544	0.400	1.750"	6.0	.4688	X
	16	0.5055	0.5360	0.4725	0.400	1.750"	6.0	.5000"	X
	17	0.5361	0.5670	0.5025	0.400	1.875"	6.0	.5000"	X
	18	0.5671	0.5990	0.5325	0.400	1.875"	6.0	.5625"	X
	19	0.5991	0.6250	0.5625	0.400	1.875"	6.0	.5625"	X

TOLERANCES	DIAMETER		SHANK
	UP TO 1.0100"	+ .0002" - .0000"	+ .0005" - .0005"
	UP TO 25.654mm	+0.005mm - 0.000mm	



Threaded Pilot Reamer

Ensure accurate and consistent hole sizing. Perfect for final sizing of critical component fits, with smooth finishes that adhere to aerospace & defense tolerances.





PART NUMBER EXPLANATION

Z T 1 0 D _ _ _ _ X _ _ _ _ X _ C

step reamer prefix

blank code

<1.0"

large cutting diameter

pilot cutting diameter

length of pilot X D

cutting

BLANK CODE	LOW Dia	HIGH Dia	Smallest Cutting	PILOT LENGTH	FLUTE LENGTH	OAL	THREAD
	Head OD		Pilot OD		STEPS COMBINED		
01	0.1105	0.1284	0.1017	0.200	0.875	3.0"	1/4-28
02	0.1285	0.1444	0.1182	0.200	0.875	3.0"	1/4-28
03	0.1445	0.1594	0.1329	0.200	0.875	3.0"	1/4-28
04	0.1595	0.1744	0.1467	0.200	0.875	3.0"	1/4-28
05	0.1745	0.1914	0.1605	0.200	0.875	3.0"	1/4-28
06	0.1915	0.2234	0.1762	0.200	0.875	3.0"	1/4-28
07	0.2235	0.2544	0.2056	0.200	0.875	3.0"	1/4-28
08	0.2545	0.2844	0.2341	0.300	1.000	3.0"	1/4-28
09	0.2845	0.3164	0.2617	0.300	1.000	3.0"	1/4-28
10	0.3165	0.3484	0.2912	0.300	1.000	3.0"	1/4-28
11	0.3485	0.3794	0.3206	0.300	1.000	3.0"	1/4-28
12	0.3795	0.4104	0.3491	0.400	1.000	3.0"	1/4-28
13	0.4105	0.4414	0.3777	0.400	1.000	3.0"	1/4-28



TOLERANCES	DIAMETER		SHANK
	UP TO 1.0100"	+0.0002"-0.0000"	+0.0005"-0.0005"
	UP TO 25.654mm	+0.005mm-0.000mm	

Carbro



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Threaded Pilot Reamer

Ensure accurate and consistent hole sizing. Perfect for final sizing of critical component fits, with smooth finishes that adhere to aerospace & defense tolerances.

PART NUMBER EXPLANATION



Z T 1 0

step reamer
prefix

blank code

D

<1.0"

- - - -

large cutting diameter

X

- - - -

pilot cutting diameter

X

- -

length of
pilot X D

N

NON
cutting

JTR
1450PT
STANDARD
LENGTH
45°
Lead Angle
NON-CUTTING

BLANK CODE	LOW Dia	HIGH Dia	Smallest Cutting	PILOT LENGTH	FLUTE LENGTH	OAL	THREAD
	Head OD		Pilot OD		STEPS COMBINED		
01	0.1105	0.1284	0.0829	0.200	0.875	3.0"	1/4-28
02	0.1285	0.1444	0.0964	0.200	0.875	3.0"	1/4-28
03	0.1445	0.1594	0.1084	0.200	0.875	3.0"	1/4-28
04	0.1595	0.1744	0.1196	0.200	0.875	3.0"	1/4-28
05	0.1745	0.1914	0.1309	0.200	0.875	3.0"	1/4-28
06	0.1915	0.2234	0.1436	0.200	0.875	3.0"	1/4-28
07	0.2235	0.2544	0.1676	0.200	0.875	3.0"	1/4-28
08	0.2545	0.2844	0.1909	0.300	1.000	3.0"	1/4-28
09	0.2845	0.3164	0.2134	0.300	1.000	3.0"	1/4-28
10	0.3165	0.3484	0.2374	0.300	1.000	3.0"	1/4-28
11	0.3485	0.3794	0.2614	0.300	1.000	3.0"	1/4-28
12	0.3795	0.4104	0.2846	0.400	1.000	3.0"	1/4-28
13	0.4105	0.4414	0.3079	0.400	1.000	3.0"	1/4-28

TOLERANCES	DIAMETER		SHANK
	UP TO 1.0100"	+0.0002"-0.0000"	+0.0005"-0.0005"
	UP TO 25.654mm	+0.005mm-0.000mm	



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JIT Reamers

24/HR Just-in-time delivery.



Straight flute, standard sizes, available in 1400 series stub length.

12 pieces or less. All Styles. Order Deadline - 3:00pm est.



**JITR
1410
STUB
LENGTH**

**45°
Lead Angle**

SIZE RANGE	FLUTE LENGTH	SHANK	OAL	FLUTES	EDP		
					ST	RH	LH
.0312 - .0394	3/8	.0312	1 1/2	4	1410S01	1410R01	1410L01
.0395 - .0484	3/8	.0312	1 1/2	4	1410S02	1410R02	1410L02
.0485 - .0574	3/8	.0469	1 1/2	4	1410S03	1410R03	1410L03
.0575 - .0654	3/8	.0469	1 1/2	4	1410S04	1410R04	1410L04
.0655 - .0804	1/2	.0625	2	4	1410S05	1410R05	1410L05
.0805 - .0964	1/2	.0781	2	4	1410S06	1410R06	1410L06
.0965 - .1124	5/8	.0938	2 1/4	4	1410S07	1410R07	1410L07
.1125 - .1284	5/8	.1094	2 1/4	4	1410S08	1410R08	1410L08
.1285 - .1444	3/4	.1250	2 1/2	4	1410S09	1410R09	1410L09
.1445 - .1594	3/4	.1406	2 1/2	4	1410S10	1410R10	1410L10
.1595 - .1744	7/8	.1562	2 3/4	4	1410S11	1410R11	1410L11
.1745 - .1914	7/8	.1719	2 3/4	4	1410S12	1410R12	1410L12
.1915 - .2234	1	.1875	3	6	1410S13	1410R13	1410L13
.2235 - .2544	1	.2188	3	6	1410S14	1410R14	1410L14
.2545 - .2844	1 1/8	.2500	3 1/4	6	1410S15	1410R15	1410L15
.2845 - .3164	1 1/8	.2812	3 1/4	6	1410S16	1410R16	1410L16
.3165 - .3484	1 1/4	.3125	3 1/2	6	1410S17	1410R17	1410L17
.3485 - .3794	1 1/4	.3438	3 1/2	6	1410S18	1410R18	1410L18
.3795 - .4104	1 1/2	.3750	4	6	1410S19	1410R19	1410L19
.4105 - .4414	1 1/2	.4062	4	6	1410S20	1410R20	1410L20
.4415 - .4724	1 1/2	.4375	4	6	1410S21	1410R21	1410L21
.4725 - .5054	1 1/2	.4688	4	6	1410S22	1410R22	1410L22



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) 45° Lead angle

TOLERANCES	DIAMETER		SHANK
	UP TO 1.0100"	+ .0002" - .0000"	+ .0005" - .0005"
	OVER 1.0100"	+ .0003" - .0000"	+ 0.013mm - 0.013mm
	UP TO 25.654mm	+ 0.005mm - 0.000mm	
	OVER 25.655mm	+ 0.008mm - 0.000mm	



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24/HR Just-in-time delivery.

12 pieces or less. All Styles. Order Deadline - 3:00pm est.

JIT Reamers

Straight flute, standard sizes, available in 1450 series standard length.



JITR
1450
STANDARD
LENGTH

45°
Lead Angle

SIZE RANGE	FLUTE LENGTH	SHANK	OAL	FLUTES	STEEL SHANK	EDP		
						ST	RH	LH
.1105 - .1284	7/8	.1094	3 1/2	4		1450S01	1450R01	1450L01
.1285 - .1444	7/8	.1250	3 1/2	4		1450S02	1450R02	1450L02
.1445 - .1594	1	.1406	4	4		1450S03	1450R03	1450L03
.1595 - .1744	1	.1562	4	4		1450S04	1450R04	1450L04
.1745 - .1914	1 1/8	.1719	4 1/2	4		1450S05	1450R05	1450L05
.1915 - .2234	1 1/4	.1875	5	6		1450S06	1450R06	1450L06
.2235 - .2544	1 1/2	.2188	6	6		1450S07	1450R07	1450L07
.2545 - .2844	1 1/2	.2500	6	6		1450S08	1450R08	1450L08
.2845 - .3164	1 5/8	.2812	6	6		1450S09	1450R09	1450L09
.3165 - .3484	1 5/8	.3125	6	6		1450S10	1450R10	1450L10
.3485 - .3794	1 3/4	.3438	7	6	✓	1450S11	1450R11	1450L11
.3795 - .4104	1 3/4	.3750	7	6	✓	1450S12	1450R12	1450L12
.4105 - .4414	1 3/4	.4062	7	6	✓	1450S13	1450R13	1450L13
.4415 - .4724	1 3/4	.4375	8	6	✓	1450S14	1450R14	1450L14
.4725 - .5054	1 3/4	.4688	8	6	✓	1450S15	1450R15	1450L15
.5055 - .5360	1 7/8	.5000	9	6	✓	1450S16	1450R16	1450L16
.5361 - .5670	1 7/8	.5000	9	6	✓	1450S16B	1450R16B	1450L16B
.5671 - .5990	1 7/8	.5625	9	6	✓	1450S17	1450R17	1450L17
.5991 - .6300	1 7/8	.5625	9	6	✓	1450S17B	1450R17B	1450L17B
.6301 - .6630	2	.6250	9 1/2	6	✓	1450S18	1450R18	1450L18
.6631 - .6930	2	.6250	9 1/2	6	✓	1450S18B	1450R18B	1450L18B
.6931 - .7250	2	.6875	9 1/2	6	✓	1450S19	1450R19	1450L19
.7251 - .7560	2	.6875	9 1/2	6	✓	1450S19B	1450R19B	1450L19B
.7561 - .7870	2	.7500	10	8	✓	1450S20	1450R20	1450L20
.7871 - .8190	2	.7812	10	8	✓	1450S21	1450R21	1450L21
.8191 - .8500	2	.8125	10	8	✓	1450S22	1450R22	1450L22
.8501 - .8820	2	.8438	10	8	✓	1450S23	1450R23	1450L23
.8821 - .9120	2	.8750	10	8	✓	1450S24	1450R24	1450L24
.9121 - .9440	2	.9062	10	8	✓	1450S25	1450R25	1450L25
.9441 - .9760	2	.9375	10	8	✓	1450S26	1450R26	1450L26
.9761 - 1.0100	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.

TOLERANCES	DIAMETER		SHANK
	UP TO 1.0100"	+ .0002" - .0000"	+ .0005" - .0005"
	OVER 1.0100"	+ .0003" - .0000"	+ 0.013mm - 0.013mm
	UP TO 25.654mm	+ 0.005mm - 0.000mm	
	OVER 25.655mm	+ 0.008mm - 0.000mm	
.0001" Tolerances Available (+20%)			



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
45° Lead angle



Drill Reamer

Can be used for hand drilling, robot or CNC.

EXCELS IN CFRP, CFRP/NOMEX, GFRP/NOMEX, CFRP/AL, AL/AL, CARBON/CARBON, AND GRAPHITE.

FEATURES

- Solid carbide provides rigidity and reduces runout over high speed steel.
- Elongated double-angle geometry eliminates thrust and exit side delamination.
- Bright polished finishes provide superior edge quality and optimum surface chip flow.
- Straight Shanks are used in general purpose applications, threaded shanks available on request.
- Optional Diamond and DLC coatings to address the specific demands of your application, as needed.



F
FIBER

0
OTHER

Carbro



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Drill Reamer

Can be used for hand drilling, robot or CNC.

8213
STANDARD
LENGTH
3" OAL

DIA		LOC	EDP
#40	.0980	3	DR-0980-3
1/8	.1250	3	DR-1250-3
#30	.1285	3	DR-1285-3
#28	.1406	3	DR-1406-3
5/32	.1562	3	DR-1562-3
#21	.1590	3	DR-1590-3
#20	.1610	3	DR-1610-3
3/16	.1875	3	DR-1875-3
#11	.1910	3	DR-1910-3
#10	.1935	3	DR-1935-3
#8	.1990	3	DR-1990-3
#7	.2010	3	DR-2010-3
13/64	.2031	3	DR-2031-3
7/32	.2188	3	DR-2188-3
1/4	.2500	3	DR-2500-3
	.2510	3	DR-2510-3
5/16	.3125	3	DR-3125-3
3/8	.3750	3	DR-3750-3

3"



8213
STANDARD
LENGTH
4" OAL

DIA		LOC	EDP
#40	.0980	4	DR-0980-4
1/8	.1250	4	DR-1250-4
#30	.1285	4	DR-1285-4
#28	.1406	4	DR-1406-4
5/32	.1562	4	DR-1562-4
#21	.1590	4	DR-1590-4
#20	.1610	4	DR-1610-4
3/16	.1875	4	DR-1875-4
#11	.1910	4	DR-1910-4
#10	.1935	4	DR-1935-4
#8	.1990	4	DR-1990-4
#7	.2010	4	DR-2010-4
13/64	.2031	4	DR-2031-4
7/32	.2188	4	DR-2188-4
1/4	.2500	4	DR-2500-4
	.2510	4	DR-2510-4
5/16	.3125	4	DR-3125-4
3/8	.3750	4	DR-3750-4

4"



TOLERANCES

DIAMETER
+0.0005"-.0000"
+0.013mm-0.000mm

8213
STANDARD
LENGTH
6" OAL

DIA		LOC	EDP
#40	.0980	6	DR-0980-6
1/8	.1250	6	DR-1250-6
#30	.1285	6	DR-1285-6
#28	.1406	6	DR-1406-6
5/32	.1562	6	DR-1562-6
#21	.1590	6	DR-1590-6
#20	.1610	6	DR-1610-6
3/16	.1875	6	DR-1875-6
#11	.1910	6	DR-1910-6
#10	.1935	6	DR-1935-6
#8	.1990	6	DR-1990-6
#7	.2010	6	DR-2010-6
13/64	.2031	6	DR-2031-6
7/32	.2188	6	DR-2188-6
1/4	.2500	6	DR-2500-6
	.2510	6	DR-2510-6
5/16	.3125	6	DR-3125-6
3/8	.3750	6	DR-3750-6

6"



Special diameters available. Contact Fullerton for details.

F
FIBER

0
OTHER

Carbro



Dagger Drill

For drilling graphite/epoxy laminates. Can be used in combination with aluminum.

WORKS IN A WIDE RANGE OF COMPOSITES AND PLASTICS.

FEATURES

- Excels in hand drilling, assembly applications.
- Can also be used in CNC applications.
- Straight Shanks are used in general purpose applications, threaded shanks available on request.
- Optional Diamond and DLC coatings to address the specific demands of your application, as needed.



N
N-FERROUS

F
FIBER

O
OTHER

Carbro



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Dagger Drill

For drilling graphite/epoxy laminates. Can be used in combination with aluminum.

8413
STANDARD
LENGTH
3" OAL

DIA	LOC	EDP
#40	.0980	3
1/8	.1250	3
#30	.1285	3
#28	.1406	3
5/32	.1562	3
#21	.1590	3
#20	.1610	3
3/16	.1875	3
#11	.1910	3
#10	.1935	3
#8	.1990	3
#7	.2010	3
13/64	.2031	3
7/32	.2188	3
1/4	.2500	3
5/16	.3125	3
3/8	.3750	3

3"



8413
STANDARD
LENGTH
4" OAL

DIA	LOC	EDP
#40	.0980	4
1/8	.1250	4
#30	.1285	4
#28	.1406	4
5/32	.1562	4
#21	.1590	4
#20	.1610	4
3/16	.1875	4
#11	.1910	4
#10	.1935	4
#8	.1990	4
#7	.2010	4
13/64	.2031	4
7/32	.2188	4
1/4	.2500	4
5/16	.3125	4
3/8	.3750	4

4"



TOLERANCES

DIAMETER
+0.0000"-.0005"
+0.000mm-0.013mm

8413
STANDARD
LENGTH
6" OAL

DIA	LOC	EDP
#40	.0980	6
1/8	.1250	6
#30	.1285	6
#28	.1406	6
5/32	.1562	6
#21	.1590	6
#20	.1610	6
3/16	.1875	6
#11	.1910	6
#10	.1935	6
#8	.1990	6
#7	.2010	6
13/64	.2031	6
7/32	.2188	6
1/4	.2500	6
5/16	.3125	6
3/8	.3750	6

6"



Special diameters available. Contact Fullerton for details.

N
N-FERROUS

F
FIBER

O
OTHER

Carbro



Poly Drill

poly drill

Produces a clean burr-free hole with no breakout, thereby eliminating a secondary operation of sanding or deburring.



1566
STANDARD
LENGTH
90° Point

DIA		LOC	SHANK	OAL	EDP TIALN
5.00	.1969	32.00	5.00	100.00	15660
6.00	.2362	32.00	6.00	100.00	15662
1/4	.2500	1 1/2	0.2500	4	15676
6.50	.2559	38.00	6.50	105.00	15663
7.00	.2756	38.00	7.00	105.00	15664
7.50	.2953	38.00	7.50	110.00	15665
8.00	.3150	38.00	8.00	115.00	15666
8.50	.3346	38.00	8.50	120.00	15667
9.00	.3543	38.00	9.00	125.00	15668
9.50	.3740	38.00	9.50	125.00	15669
V	.3770	1 1/2	.3770	5	15659
10.00	.3937	38.00	10.00	130.00	15670
10.50	.4134	38.00	10.50	137.00	15671
11.00	.4331	38.00	11.00	140.00	15672
11.50	.4528	38.00	11.50	143.00	15673
12.00	.4724	38.00	12.00	150.00	15674
1/2	.5000	1 1/2	0.5000	6	15678

TOLERANCES	DIAMETER	SHANK	30° HELIX
	+.0000"-.001"	+.0000"-.0005"	
	+0.00mm-0.025mm	+0.000mm-0.013mm	



F
FIBER

0
OTHER



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Produces a clean burr-free hole with no breakout, thereby eliminating a secondary operation of sanding or deburring.



5566
STANDARD
LENGTH
90° Point

DIA		LOC	SHANK	OAL	EDP	
					UNCOATED	FC 1
11	.1910	1	.2500	4	25319	25300
5.00	.1969	32.00	5.00	100.00	25320	25301
6.00	.2362	32.00	6.00	100.00	25321	25302
1/4	.2500	11/2	.2500	4	25322	25303
	.2520	11/2	.2520	4	25323	25304
6.50	.2559	38.00	6.50	105.00	25324	25305
17/64	.2656	11/2	.2656	4	25338	25339
7.00	.2756	38.00	7.00	105.00	25325	25306
9/32	.2812	11/2	.2812	4	25340	25341
7.50	.2953	38.00	7.50	110.00	25326	25307
5/16	.3125	11/2	.3125	4 1/2	25327	25308
8.00	.3150	38.00	8.00	115.00	25328	25309
8.50	.3346	38.00	8.50	120.00	25329	25310
9.00	.3543	38.00	9.00	125.00	25330	25311
9.50	.3740	38.00	9.50	125.00	25331	25312
3/8	.3750	11/2	.3750	5	25342	25343
25/64	.3906	11/2	.3906	5	25344	25345
10.00	.3937	38.00	10.00	130.00	25332	25313
10.50	.4134	38.00	10.50	137.00	25333	25314
11.00	.4331	38.00	11.00	140.00	25334	25315
7/16	.4375	11/2	.4375	6	25346	25347
11.50	.4528	38.00	11.50	143.00	25335	25316
12.00	.4724	38.00	12.00	150.00	25336	25317
1/2	.5000	11/2	.5000	6	25337	25318
33/64	.5156	11/2	.5156	6	25348	25349

FC1 = Diamond Coating

FEATURES

Works well in fiber reinforced thermoplastics and composite materials commonly found in the automotive, aerospace, appliance, and recreation industries.



Patent #5636948

TOLERANCES	DIAMETER		SHANK	30° HELIX
	+.0000"-.001"		+.0000"-.0005"	
	+0.00mm-0.025mm		+0.000mm-0.013mm	

F
FIBER

0
OTHER



Aircraft Extension Drill

For drilling holes where reach is normally not accessible with jobbers or taper length drills.

6" **P3** = 135° SPLIT POINT

8466
STANDARD
LENGTH
135° Point

	DIA	LOC	OAL	EDP
#40	.0980	1-3/8	6	AED-0980-6
1/8	.1250	1-5/8	6	AED-1250-6
#30	.1285	1-5/8	6	AED-1285-6
#28	.1406	1-3/4	6	AED-1406-6
5/32	.1562	2	6	AED-1562-6
#21	.1590	2-1/8	6	AED-1590-6
#20	.1610	2-1/8	6	AED-1610-6
#19	.1660	2-1/8	6	AED-1660-6
3/16	.1875	2-5/16	6	AED-1875-6
#11	.1910	2-5/16	6	AED-1910-6
#10	.1935	2-7/16	6	AED-1935-6
#8	.1990	2-7/16	6	AED-1990-6
#7	.2010	2-7/16	6	AED-2010-6
13/64	.2031	2-7/16	6	AED-2031-6
7/32	.2188	2-1/2	6	AED-2188-6
1/4	.2500	2-3/4	6	AED-2500-6
5/16	.3125	3-3/16	6	AED-3125-6
3/8	.3750	3-5/8	6	AED-3750-6



FEATURES

Double Margin available Aircraft Extension and Jobber drills. Contact customer service.

TOLERANCES

DIAMETER
+0.0000" -0.0005"
+0.000mm -0.013mm

N
N-FERROUS

Carbro



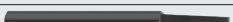
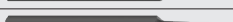
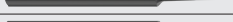
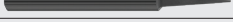
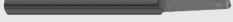
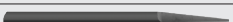
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Carbide Pocket Scriber

The pocket **S.E.D.** tool is handy and easy to use. It's a pocket scriber, engraving and deburring tool. It will mark, engrave and debur in glass, ceramics, plastics, hardened steel and many other materials. Solid carbide cutter is held in a steel collet mounted in an aluminum body.

SCRIBER STANDARD LENGTH

	END STYLE	OAL	FLUTE LENGTH	END DIM	INCL ANGLE	PART NO
		1-1/2	7/16	.060	ST	201
		1-1/2	7/16	.060	°4	202
		1-1/2	7/16	.045	°4	203
		1-1/2	7/16	.030	°4	204
		1-1/2	7/16	.015	°6	205
		1-1/2	7/16	.060	°4	206
		1-1/2	7/16	.045	°6	207
		1-1/2	7/16	.030	°6	208
		1-1/2	7/16	.015	°6	209
		1-1/2	7/16	POINT		210
	Handle Only	-	-	-	-	225
Full Set	-	-	-	-	-	200

FEATURES

| Get the handle free when you purchase a full set.



Carbro



Kevlar Router

Specially designed for hand and machine routing of Kevlar materials.

1605
STANDARD
LENGTH

DIA	DECIMAL SIZE	LOC	OAL	CUT	END TYPE A	END TYPE B	END TYPE C	END TYPE D	END TYPE E
1/4	.2500	1	3	MEDIUM	1605KM-3A	1605KM-3B	1605KM-3C	1605KM-3D	1605KM-3E
				COARSE	1605KC-3A	1605KC-3B	1605KC-3C	1605KC-3D	1605KC-3E

FEATURES

- Available in both medium and coarse cut.
- Use coarse when roughing out major portions of material to shape thicker material.
- Use medium when roughing thinner material or trimming parts to final shape.

TOLERANCES

DIAMETER
+.0000"-.0005"
+0.000mm-0.013mm



CFRP Router

Specially designed for composites and laminates resulting in minimized delamination and excellent part finishes.

1375
STANDARD
LENGTH

DIA	LOC	SHANK	OAL	FLUTES	EDP
1/4	3/4	1/4	2-1/2	10	FC1
					1375-2500

FEATURES

- Ideal for trimming CFRP.
- End mill style end.
- Excellent in S-glass and other fiberglass materials.

TOLERANCES

DIAMETER	SHANK
+.0000"-.0050"	h6
+0.00mm-0.10mm	

FC1 = Diamond Coating



F
FIBER

O
OTHER



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Burr Router

2600 constructed from Dura Carb and 5600 constructed from Dura Carb 3D wear-resistant carbide.



FC1 = Diamond Coating

**2600
5600
STANDARD
LENGTH**

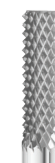
DIA	LOC	SHANK	OAL	EDP		
				2600 UC	5600 UC	5600 FC 1
Style A - No End Cut						
1/8	1/2	1/8	11/2	26125	25200	25250
3/16	5/8	3/16	2	26187	25201	25251
1/4	3/4	1/4	2 1/2	26250	25202	25252
	1	1/4	3	26260	25203	25253
3/8	1	3/8	2 1/2	26375	25204	25254
1/2	1	1/2	3	26500	25205	25255
Style B - Burr Style End Cut						
1/8	1/2	1/8	11/2	26126	25206	25256
3/16	5/8	3/16	2	26188	25207	25257
1/4	3/4	1/4	2 1/2	26251	25208	25258
	1	1/4	3	26261	25209	25259
3/8	1	3/8	2 1/2	26376	25210	25260
1/2	1	1/2	3	26501	25211	25261
Style C - End Mill End Cut						
1/8	1/2	1/8	11/2	26127	25212	25262
3/16	5/8	3/16	2	26189	25213	25263
1/4	3/4	1/4	2 1/2	26252	25214	25264
	1	1/4	3	26262	25215	25265
3/8	1	3/8	2 1/2	26377	25216	25266
1/2	1	1/2	3	26502	25217	25267
Style D - 135° Drill Point						
1/8	1/2	1/8	11/2	26128	25218	25268
3/16	5/8	3/16	2	26190	25219	25269
1/4	3/4	1/4	2 1/2	26253	25220	25270
	1	1/4	3	26263	25221	25271
3/8	1	3/8	2 1/2	26378	25222	25272
1/2	1	1/2	3	26503	25223	25273



A

No End Cut

Recommended for edge work where the end of the router is not in contact with the work piece.



B

Burr Style End Cut

Recommended for bottom cutting to produce an even, smooth surface with square corners



C

End Mill End Cut

Recommended for bottom cutting where smooth surface and square corners are required.



D

135° Drill Point

Recommended for plunging through the work piece before routing operations begin.

TOLERANCES

DIAMETER	SHANK
+0.0000"-0.0050"	h6
+0.00mm-0.10mm	

U
UNIVERSAL

F
FIBER

O
OTHER



Routers

Suitable in various materials including titanium, super alloys, hardened & stainless steels, cast iron, graphite, brass & copper, hi & low silicon aluminum, composites, plastics, and wood.



1600
ST FLUTE
RH CUT
1 flute

DIA	LOC	OAL	SPIRAL	CUT	FLUTES	EDP UNCOATED
1/8	1/2	1-1/2	ST	RHC	1	1600-1250
3/16	1/2	2	ST	RHC	1	1600-1875
1/4	3/4	2-1/2	ST	RHC	1	1600-2500
3/8	3/4	2-1/2	ST	RHC	1	1600-3750
1/2	1	3	ST	RHC	1	1600-5000



1610
ST FLUTE
RH CUT
2 flute

DIA	LOC	OAL	SPIRAL	CUT	FLUTES	EDP UNCOATED
1/8	1/2	1-1/2	ST	RHC	2	1610-1250
3/16	1/2	2	ST	RHC	2	1610-1875
1/4	3/4	2-1/2	ST	RHC	2	1610-2500
3/8	3/4	2-1/2	ST	RHC	2	1610-3750
1/2	1	3	ST	RHC	2	1610-5000



1620
RH SPIRAL
RH CUT
2 flute

DIA	LOC	OAL	SPIRAL	CUT	FLUTES	EDP UNCOATED
1/8	1/2	1-1/2	RH	RHC	2	1620-1250
3/16	1/2	2	RH	RHC	2	1620-1875
1/4	3/4	2-1/2	RH	RHC	2	1620-2500
3/8	3/4	2-1/2	RH	RHC	2	1620-3750
1/2	1	3	RH	RHC	2	1620-5000



1630
LH SPIRAL
RH CUT
2 flute

DIA	LOC	OAL	SPIRAL	CUT	FLUTES	EDP UNCOATED
1/8	1/2	1-1/2	LH	RHC	2	1630-1250
3/16	1/2	2	LH	RHC	2	1630-1875
1/4	3/4	2-1/2	LH	RHC	2	1630-2500
3/8	3/4	2-1/2	LH	RHC	2	1630-3750
1/2	1	3	LH	RHC	2	1630-5000



1640
RH SPIRAL
RH CUT
3 flute

DIA	LOC	OAL	SPIRAL	CUT	FLUTES	EDP UNCOATED
1/8	1/2	1-1/2	RH	RHC	3	1640-1250
3/16	1/2	2	RH	RHC	3	1640-1875
1/4	3/4	2-1/2	RH	RHC	3	1640-2500
3/8	3/4	2-1/2	RH	RHC	3	1640-3750
1/2	1	3	RH	RHC	3	1640-5000



1650
LH SPIRAL
RH CUT
3 flute

DIA	LOC	OAL	SPIRAL	CUT	FLUTES	EDP UNCOATED
1/8	1/2	1-1/2	LH	RHC	3	1650-1250
3/16	1/2	2	LH	RHC	3	1650-1875
1/4	3/4	2-1/2	LH	RHC	3	1650-2500
3/8	3/4	2-1/2	LH	RHC	3	1650-3750
1/2	1	3	LH	RHC	3	1650-5000

TOLERANCES	DIAMETER
	+0.0001"-0.0002"
	+0.000mm-0.05mm

Carbro



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Matrx Router



5500
STANDARD
LENGTH
Radius End

DIA	LOC	SHANK	OAL	RADIUS	EDP	
					UNCOATED	FCI
1/8	1/2	1/8	1 1/2	.0100	25000	25025
	1	1/8	3	.0100	25001	25026
1/4	3/4	1/4	2 1/2	.0200	25002	25027
	1-1/2	1/4	4	.0200	25003	25028
3/8	1	3/8	2 1/2	.0300	25004	25029
	2	3/8	4	.0300	25005	25030
1/2	1-1/4	1/2	3 1/2	.0300	25006	25031
	2-3/8	1/2	5	.0300	25007	25032

FCI = Diamond Coating



TOLERANCES	DIAMETER		SHANK	35° HELIX
	+.0000"-.003"		h6	
	+0.00mm-0.0762mm			



The **MATRX** is a **5-flute**, high performance router that allows for ultimate material removal rates in carbon composites, fiberglass, fiber reinforced materials, plastics, and green ceramics. Its high shear and low cutting forces provide a clean edge with minimal material delamination or tearing of fibers. The MATRX is available uncoated or with **FCI coating**.

F
FIBER

0
OTHER



Compression Router

Unique solid carbide compression routers are designed for precision applications requiring high feed rates and optimum finishes.

FC1 = Diamond Coating

1300
STANDARD
LENGTH

DIA	DECIMAL	UP- CUT-FLUTE	LOC	OAL	EDP		
					UNCOATED	FC1	FC2
1/8	0.1250	.225	1/2	2	CR-1250	CR-1250-FC1	CR-1250-FC2
1/4	0.2500	3/16	3/4	2-1/2	CR-2500	CR-2500-FC1	CR-2500-FC2
3/8	0.3750	1/4	1	2-1/2	CR-3750	CR-3750-FC1	CR-3750-FC2
1/2	0.5000	1/4	1-1/8	3	CR-5000	CR-5000-FC1	CR-5000-FC2

TOLERANCES	DIAMETER
	+0.0000"-0.0005" +0.000mm-0.013mm



FEATURES

- Produces enhanced edge finish.
- Suitable for CFRP and double-sided laminated materials.
- Features counteracting flute geometries that compress material inward to eliminate burrs, tear out, and delamination during machining.

**RIGHT AND LEFT ENGINEERED HELIX'S.
RIGHT HAND CUTTING, END CUTTING TO CENTER
FOR PLUNGE CUTTING APPLICATIONS.**

Honeycomb Router

For hand and machine routing of sandwiched honeycomb materials.

1350
STANDARD
LENGTH

DIA	LOC	OAL	FLUTES	EDP FC6
1/4	1-1/8"	3	4	1350-2500
3/8	1-1/8"	3	8	1350-3750
1/2	1-1/8"	3	8	1350-5000

TOLERANCES	DIAMETER
	+0.0000"-0.0005" +0.000mm-0.013mm



F
FIBER

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OTHER

Carbro



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Rivet Shaver

Designed to trim excess material from flush-head rivets.

9000
STANDARD
LENGTH
2 FL

DIA	FLUTES	OAL	THREAD	EDP UNCOATED
1/4	8	.800	1/4-28	CC8801-1
5/16	8	.800	1/4-28	CC8801-2
3/8	10	.925	1/4-28	CC8801-3
1/2	14	.925	1/4-28	CC8801-4

TOLERANCES	DIAMETER
	+.0000"-.0005"
	+0.000mm-0.013mm



FEATURES

Multi-flute

1/4, 3/8, 1/2 Stocked, others available upon request.



Piloted Countersink

Can be used in aluminum, Derlin, HDPE & UHMW.

9100
STANDARD
LENGTH
2 FL

3/8	COUNTERSINK	BODY SIZE	PILOT	ANGLE	FLUTES	EDP UNCOATED
	CS	.375	.0980	100	3	CS-375-0980-100-3

1/2	COUNTERSINK	BODY SIZE	PILOT	ANGLE	FLUTES	EDP UNCOATED
	CS	.500	.0980	100	3	CS-500-0980-100-3
	CS	.500	.1285	100	3	CS-500-1285-100-3
	CS	.500	.1875	100	3	CS-500-1875-100-3
	CS	.500	.2500	100	3	CS-500-2500-100-3

TOLERANCES	DIAMETER
	+.0000"-.0005"
	+0.000mm-0.013mm

FEATURES

Angles available: **100°, 82°, 90°**

Designed to enlarge and bevel already drilled holes.



Kevlar
COUNTERSINKS AVAILABLE



N
N-FERROUS

F
FIBER

O
OTHER

Carbro



Brad Point Drill

For drilling reinforced graphite, Kevlar, and resin type materials.

This product is available via custom order only. For pricing details and lead times, please contact our quoting team directly at Quotes@fullertontool.com.

8100
STANDARD
LENGTH



FEATURES

- For drilling pliable materials
- Works well in coarse grain materials.

EXCELS IN DRILLING KEVLAR LAMINATES.



N
N-FERROUS

F
FIBER

O
OTHER

Carbro



fullertontool.com | 989.799.4550



8 Facet Drill

For drilling graphite / aluminum laminates. Designed to drill composite & aluminum stack material. **This product is available via custom order only.** For pricing details and lead times, please contact our quoting team directly at Quotes@fullertontool.com.

8400
STANDARD
LENGTH
2 FL



FEATURES

- SELF CENTERING** Produces less burr on exit side of hole.
- Helps the corner from breaking down.



**CUSTOM
ORDER**

Core Drill

Used to enlarge previous drilled holes in composites, fiberglass and stacked materials.
This product is available via custom order only. For pricing details and lead times, please contact our quoting team directly at Quotes@fullertontool.com.

8650
STANDARD
LENGTH



Double Margin Drill

For drilling reinforced graphite, Kevlar, and resin type materials.
This product is available via custom order only. For pricing details and lead times, please contact our quoting team directly at Quotes@fullertontool.com.

8500
STANDARD
LENGTH



FEATURES

Makes a true hole and smoother finish while providing a more accurate, rounder drilled hole.

**DESIGNED WITH A SECOND MARGIN
THAT BURNISHES THE CAVITY.**



Carbro



Threaded Tooling

Customized threaded tooling solutions, including reamers, step reamers, drill reamers, drills, core drills, and dagger drills, designed for durability and precision to meet the rigorous standards of the aerospace and defense sector.

This product is available via custom order only. For pricing details and lead times, please contact our quoting team directly at Quotes@fullertontool.com.



Threaded adapters available.



Carbro



fullertontool.com | 989.799.4550



Rebating Cutter

Reduces tearing, flagging, and fuzz. Optimized for removing material between face sheets on honeycomb core sandwich panels.
This product is available via custom order only. For pricing details and lead times, please contact our quoting team directly at Quotes@fullertontool.com.

1380
STANDARD
LENGTH



FEATURES

- Increased productivity when cutting honeycomb core materials.
- Provides rebated area to allow for edge filling or fasteners.



**EXCELS ON OUTSIDE EDGES AS WELL AS INTERNAL
CIRCULAR OR RECTANGULAR REBATE REQUIREMENTS**



F
FIBER

0
OTHER

Carbro





FULLERTON
TOOL COMPANY

EC **ENDURANCE**
CARBIDE
OUTLAST - OUTPERFORM

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YOUR AEROSPACE TOOLING SPECIALISTS

InovaTools
GERMAN TOOLS GROUP

HOBE | **micro**
tools