

2021

PROMO

NEOLOGIQ
MACHINING INTELLIGENTLY

valid until December 31st 2021

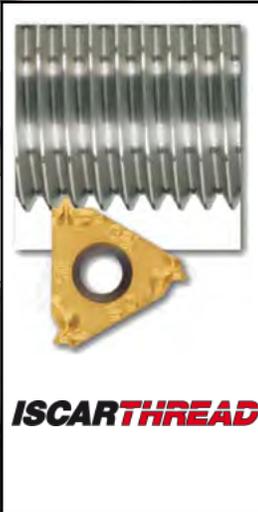
MACHINING IN **INDUSTRY 4.0**
TELLIGENTLY



NEODO
590° LINE



LOGIQ4TURN
POSITIVE DOUBLE SIDED



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FLASHSOLID



LOGIQFGRIP
HIGH FEED Y-AXIS



MILLTHREAD



BASS TOOL & SUPPLY, INC.

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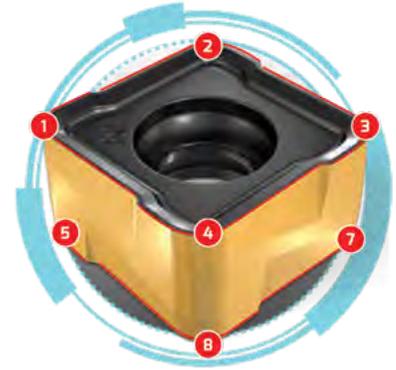


NEODO
S90° LINE

Innovations 2021

Exact 90° Shouldering

A New Milling Line for Square Shoulder and Face Milling.
A Unique Exact 90° Profile with 8 Cutting Edges in Combination with a Dovetail Clamping Method Enables Higher Cutting Conditions and Assures Better Productivity.





Purchase
10 S890 SZMU 08 Inserts per Pocket

Receive
Corresponding Cutter S890 FSZ...-R08

Free

Use Promo Code: **T2140** * Up to 5"



NEODO
S90° LINE

- **90° Square shoulder and face milling**
- **Square inserts with 8 cutting edges**
- Advanced cutting geometry which reduces cutting forces and assures smooth cutting and low power consumption

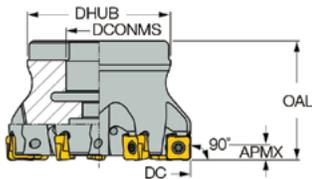
- A highly economical solution which provides an optimal price per cutting edge
- Excellent performance for diverse machining conditions and interrupted cuts

HIGH METAL REMOVAL RATES
• STEEL • STAINLESS • CAST IRON

Starting feed per tooth Fz for S890 face mills with inserts S890 SZMU 08...

S890 FSZ-R08

Face Mills



ISO class	Description	Typical representative		Hardness HB	Fz, IPT, for grades				
					IC 5100	IC810	IC808	IC845	IC5400
P	Non-alloy steel	1020	1.044	130-180			.004"-.01"	.004"-.01"	.004"-.01"
	Alloy steel	4340	1.658	260-300			.004"-.007"	.004"-.007"	.004"-.007"
			4340	1.658	HRC 35-42*			.004"-.007"	.004"-.007"
	High alloy steel	H13	1.234	200-220			.003"-.005"	.003"-.005"	.003"-.005"
M	Martensitic s.s.	420	1.402	200			.003"-.005"	.003"-.005"	.003"-.005"
		304L	1.431	200			.004"-.006"	.004"-.006"	.004"-.006"
K	Austenitic s.s.	316L	1.440	140			.004"-.006"	.004"-.006"	.004"-.006"
		Class 40	0.6025 (GG25)	250	.006"-.01"	.006"-.01"			
H	Grey cast iron	Class 65-45-12	0.7050 (GGG50)	200	.005"-.008"	.005"-.008"			
		H11	1.234	HRC 45-49			.002"-.004"	.002"-.004"	.002"-.004"
H	Hard steel and cast iron	P20	1.2330	HRC 50-55			.002"-.004"	.002"-.004"	.002"-.004"

PART #	DC	DCONMS	APMX	OAL	DHUB	Arbor	Z ⁽¹⁾
S890-FSZ-D1.5-05-0.75-R08	1.500	.750	.2000	1.500	1.440	A	5
S890-FSZ-D1.5-06-0.75-R08	1.500	.750	.2000	1.500	1.440	A	6
S890-FSZ-D2.0-06-0.75-R08	2.000	.750	.2000	1.500	1.850	A	6
S890-FSZ-D2.0-08-0.75-R08	2.000	.750	.2000	1.500	1.850	A	8
S890-FSZ-D2.5-07-1.00-R08	2.500	1.000	.2000	1.750	2.250	A	7
S890-FSZ-D2.5-10-1.00-R08	2.500	1.000	.2000	1.750	2.250	A	10
S890-FSZ-D3.0-08-1.00-R08	3.000	1.000	.2000	1.750	2.250	B	8
S890-FSZ-D3.0-12-1.00-R08	3.000	1.000	.2000	1.750	2.250	B	12
S890-FSZ-D4.0-10-1.50-R08	4.000	1.500	.2000	2.000	3.230	B	10
S890-FSZ-D4.0-14-1.50-R08	4.000	1.500	.2000	2.000	3.230	B	14
S890-FSZ-D5.0-12-1.50-R08	5.000	1.500	.2000	2.000	3.800	B	12
S890-FSZ-D5.0-18-1.50-R08	5.000	1.500	.2000	2.000	3.800	B	18

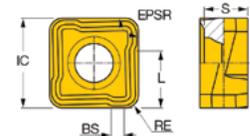
SCREW	KEY
SR-M3X0.5-L7.4-IP9	IP-9/151

- Use only Torx Plus keys
- ⁽¹⁾ Number of inserts

INSERTS

S890 SZMU-0804PN

Square Double-Sided Inserts with 8 Cutting Edges



PART #	IC	S	L	BS	RE	EPSR	Tough ↔ Hard					Recommended Machining Data fz (inch/t)
							IC845	IC5400	IC808	IC810	IC5100	
S890-SZMU-080412PNTR	.323	.157	.205	.047	.0472	88.4						.0047-.0098
S890-SZMU-080412PNRMM	.323	.157	.205	.047	.0472	88.4	•	•	•	•	•	.0031-.0098



LOGIQ4FEED

HIGH FEED MILLING

Innovations 2021

High Feed Milling

Unique Twisted High Positive
4 Cutting Edged Insert. A Range of
Tools from 0.5" Endmills up to 5" Facemills.
This New Line of Tools Enables Machining
at Very High Feeds for High Productivity.



Purchase

10 FFX4 XNMU 04 Inserts per Pocket

Receive

Corresponding Cutter FFX4 FD/ED...-08

Free



Use Promo Code: **T2142**

* Up to 5"



Purchase

10 FFX4 XNMU 04 Inserts per Pocket

Receive

Corresponding Cutter FFX4 FD/ED...-04

Free

Use Promo Code: **T2141**

* Up to 2"

LOGIQ4FEED

HIGH FEED MILLING

HIGH FEED MILLING

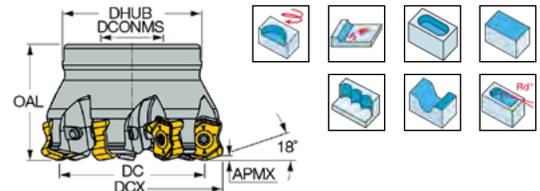
Tool features:

- The cutter carries double-sided inserts with four cutting edges
- Positive rake angle
- Maximum .0787" depth of cut
- 18° cutting edge angle
- Ramping down capabilities
- Coolant holes directed to each individual cutting edge
- Covers a wide range of applications
- Suitable for machining a wide range of workpiece materials
- An optimal solution for rough milling operations
- Ensures high metal removal rates
- Economical solution



FFX4 FD
Face Mills Carrying
"Bone Shape" Inserts
with 4 Cutting Edges

USE INSERT:
FFX4-XNMU-080620T



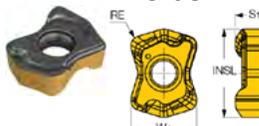
PART #	DCX ⁽¹⁾	DC	Z ⁽²⁾	APMX	AE ⁽³⁾	OAL	DHUB	DCONMS	RD ⁽⁴⁾	MDN ⁽⁵⁾	MDX ⁽⁶⁾	Rg ⁽⁷⁾
FFX4-FD2.00-4-0.75-08	2,000	1,386	4	.0787	.307	1,750	1,850	.750	3.2	3,386	3,961	.157
FFX4-FD2.50-5-1.00-08	2,500	1,886	5	.0787	.307	1,750	2,252	1,000	2.2	4,386	4,961	.157
FFX4-FD3.00-6-1.00-08	3,000	2,386	6	.0787	.307	2,000	2,252	1,000	1.7	5,386	5,961	.157
FFX4-FD4.00-8-1.50-08	4,000	3,386	8	.0787	.307	2,000	3,228	1,500	1.0	7,386	7,961	.157
FFX4-FD5.00-10-1.50-08	5,000	4,386	10	.0787	.307	2,000	3,780	1,500	0.9	9,386	9,961	.157

- To generate a straight surface without cusps, the width of cut must not exceed DC
- (1) Cutting diameter maximum (2) Number of inserts (3) Maximum plunging width (4) Ramping angle maximum (5) Machinable diameter minimum for interpolation (6) Machinable diameter maximum for interpolation (7) Radius for programming

SPARE PARTS

FOR CUTTERS	PART#: 1-000-			
	SCREW	SCREW 1	T-HANDLE	TORX BLADE
FFX4-FD2.00-4-0.75-08	SR-M5-14-IP20	SR-UNF-3/8X1-B18.3	SW6-T	BLD-IP20/S7
FFX4-FD2.50-5-1.00-08	SR-M5-14-IP20	SR-UNF-1/2X20X1-B18.3	SW6-T	BLD-IP20/S7
FFX4-FD3.00-6-1.00-08	SR-M5-14-IP20	SR-UNF-1/2X1 1/2-B18.3	SW6-T	BLD-IP20/S7
FFX4-FD4.00-8-1.50-08	SR-M5-14-IP20		SW6-T	BLD-IP20/S7
FFX4-FD5.00-10-1.50-08	SR-M5-14-IP20		SW6-T	BLD-IP20/S7

FFX4 XNMU-08 "Bone Shape" Inserts with 4 Cutting Edges



PART #	INSL	S1	RE	W1
FFX4-XNMU-080620T	.705	.307	.0787	.614

- For side plunging, the initial cutting feed is .004 inch/t
- T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel

ap = DEPTH OF CUT
vc = CUTTING SPEED (sfm)
fz = FEED (INCH/TOOTH)

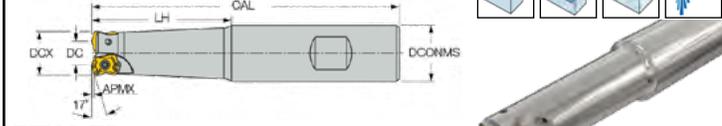
Tough ↔ Hard			Recommended Machining Data	
IC830	IC808	IC810	ap [inch]	fz [inch/t]
•	•	•	.008-.079	.0079-.0472

Material	Grade	vc, [sfm]	fz [inch/tooth]	Coolant
P Non-alloy steel	IC808	490-590	.0078-.0472	Dry
	IC830	490-590	.0078-.0472	Dry/Wet
	IC808	490-590	.0078-.0472	Dry/Wet
	IC830	390-590	.0078-.0433	Dry/Wet
	IC808	430-580	.0078-.0314	Dry
	IC830	390-520	.0078-.0393	Dry/Wet
P High alloy steel	IC808	390-560	.0078-.0314	Dry
	IC830	330-490	.0078-.0354	Dry/Wet
Ferritic/martensitic stainless steel	IC808	360-520	.0078-.0314	Dry
	IC830	330-490	.0078-.0354	Dry/Wet
K Grey cast iron	IC810	490-720	.0157-.0472	Dry
	IC810	390-650	.0157-.0472	Dry
H Hardened steel	IC808	160-245	.0078-.0196	Dry

LOGIQ4FEED

HIGH FEED MILLING

HIGH FEED MILLING DIA .5-1.5"

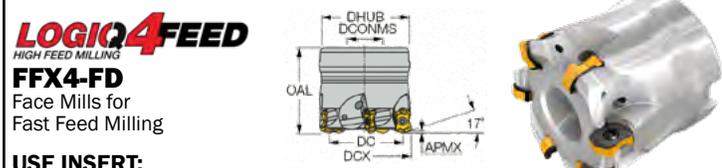


FFX4-ED Endmills Carrying Small Double-Sided "Bone Shape" Inserts with 4 Cutting Edges for Fast Feed Milling

USE INSERT:
FFX4-XNMU-04

PART #	DCX	DC	APMX	Z(1)	LH	OAL	DCONMS	Shank(2)	Rd ⁽³⁾
FFX4-ED0.50-1-1.2W0.50-04	.500	.209	.031	1	1.200	3.250	.500	W	3.4
FFX4-ED0.62-2-1.5W0.62-04	.625	.334	.031	2	1.500	3.500	.625	W	4.3
FFX4-ED0.62-2-2.0W0.62-04	.625	.334	.031	2	2.000	4.250	.750	W	4.3
FFX4-ED0.75-3-2.0W0.75-04	.750	.459	.031	3	2.000	4.250	.750	W	2.9
FFX4-ED0.75-3-2.5W0.75-04	.750	.459	.031	3	2.500	5.000	.750	W	2.9
FFX4-ED1.00-4-3.0W1.00-04	1.000	.709	.031	4	3.000	4.500	1.000	W	1.8
FFX4-ED1.00-4-3.0W1.00-04	1.000	.709	.031	4	3.000	5.000	1.000	W	1.8
FFX4-ED1.25-5-2.5W1.00-04	1.250	.959	.031	5	2.500	5.000	1.000	W	1.2
FFX4-ED1.25-5-3.0W1.25-04	1.250	.959	.031	5	3.000	5.500	1.250	W	1.2

- Radius for programming .071" • SCREW: 1-000-SR-M2.5x6-T7-60 • TORX KEY: 1-000-T-7/51
- (1) Number of inserts (2) W- Weldon (3) Maximum ramping angle



USE INSERT:
FFX4-XNMU-04 SEE NEXT PAGE FOR MORE CUTTERS

PART #	DCX	DC	Z(1)	APMX	OAL	DHUB	DCONMS	Rd ⁽³⁾
FFX4-FD1.50-6-.05-04	1.500	1.209	6	.031	1.500	1.417	.500	1.0
FFX4-FD2.00-7-.75-04	2.000	1.709	7	.031	1.500	1.850	.750	0.6

- Radius for programming .071" • SCREW: 1-000-SR-M2.5x6-T7-60 • TORX KEY: 1-000-T-7/51
- (1) Number of inserts



PART #	INSL	S1	RE	W1	TOUGH ↔ HARD					ap (inch)	fz (inch/t)
					IC882	IC840	IC830	IC820	IC808		
FFX4-XNMU-040310HP	.366	.156	.0394	.282	•	•	•	•	•	.008-.031	.0079-.0354
FFX4-XNMU-040310T	.366	.156	.0394	.282	•	•	•	•	•	.008-.031	.0079-.0472

- HP- for austenitic stainless steel and high temperature alloys
- T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel



NEOFEED

HIGH FEED LINE

Innovations 2021

High Feed & Moderate Milling

Unique Insert with 8 Cutting Edges Performs at Fast Feed and Moderate Rates for Different Milling Applications.



Purchase

10 FFQ8 SZMU 12 Inserts per Pocket

Receive

Corresponding Cutter FFQ8/MFQ8 D...-12

Free

Use Promo Code: **T2143**

* Up to 4"



NEOFEED

HIGH EFFICIENCY
ROUGH MILLING

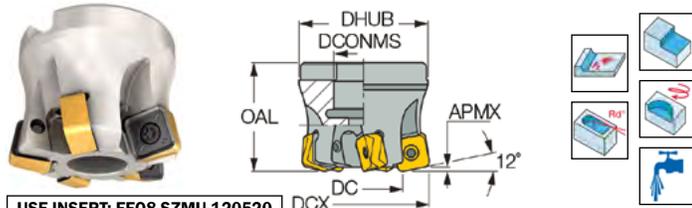
HIGH PRODUCTIVITY USING INSERTS WITH 8 CUTTING EDGES

EXTREMELY HIGH FEED

When mounted in a NEOFEED tool, the insert enables a positive tool rake angle which assures smooth cutting and reduced cutting forces and power consumption. The insert pocket has a dovetail shape that provides rigid and reliable insert clamping and improves the a cutter's capability to withstand heavy load. These features provide increased cutting data for better productivity and for improving tool life.

FFQ8-12 - FAST FEED

Fast Feed Face Mills Carrying Double-Sided Inserts with 8 Cutting Edges

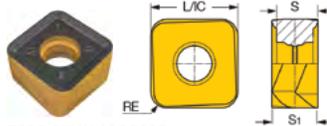


USE INSERT: FFQ8-SZMU-120520

PART #	DCX ⁽¹⁾	DC	APMX	Z ⁽²⁾	OAL	DHUB	DCONMS	RD ⁽³⁾	MDN ⁽⁴⁾	MDX ⁽⁵⁾
FFQ8-D2.00-05-0.75-12	2.000	1.236	.0600	5	1.625	1.850	.750	.3	3.236	3.960
FFQ8-D2.50-06-1.00-12	2.500	1.736	.0600	6	1.750	2.250	1.000	.2	4.236	4.960
FFQ8-D3.00-07-1.00-12	3.000	2.236	.0600	7	1.750	2.250	1.000	.2	5.236	5.960
FFQ8-D4.00-08-1.50-12	4.000	3.236	.0600	8	2.000	3.230	1.500	.1	7.236	7.960

- Radius for programming .142" • To generate a straight surface without cusps, the width of cut must not exceed DC • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 30% ⁽¹⁾Cutting diameter maximum ⁽²⁾Number of inserts ⁽³⁾Maximum ramping angle ⁽⁴⁾⁽⁵⁾For interpolation

NEOFEED FFQ8 SZMU Square Double-Sided Inserts with 8 Cutting Edges for Fast Feed Milling



PART #	L	S	RE	S ₁
FFQ8-SZMU-120520T	.472	.230	.0787	.256

- T- for steel, ferritic and martensitic stainless steel, cast iron and hardened steel

FFQ8-SZMU-120520T

Average cutting data for FFQ8 fast feed cutters / MFQ8 Moderate feed cutters

CARBIDE GRADES

Tough ← Hard
IC830 ← IC808 ← IC810

Recommended Machining Data
fz
(inch/t)
.0314-.0590

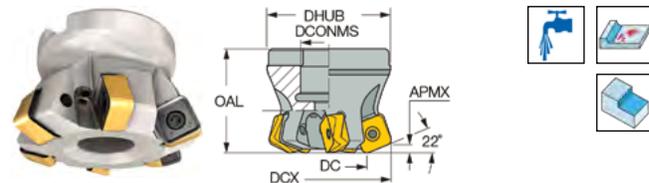
ISO class DIN/ISO 513	Description	Workpiece Material				Insert type	Carbide grade	Cutting speed Vc, [SFM]	Fast Feed cutters (FF)		Moderate Feed (MF)		Coolant		
		Iscar Mat. Group	Hardness, HB	Typical representative					D.O.C. Ap [inch]	Feed fz [ITP]	D.O.C. Ap [inch]	Feed fz [ITP]			
				AISI/SAE/ASTM	DIN W.-Nr.										
P	Non-alloy steel	1-5	130-180	1020	1.040	T	IC808	492-721	.019-.059	.007-.059	.019-.118	.007-.039	Dry		
		IC830	459-656	.007-.059	.007-.039		Dry/Wet								
	Low alloy steel	6-8	260-300	4340	1.658		IC808	459-656				.007-.059	.007-.039	Dry/Wet	
		IC830	393-590	.007-.059	.007-.039		Dry/Wet								
	High alloy steel	9	35-42**	HRC	3135		1.5710	IC808				426-590	.007-.055	.007-.035	Dry
		IC830	393-524	.007-.055	.007-.035		Dry/Wet								
K	Ferritic/martensitic stainless steel	10-11	200-220	H13	1.234	T	IC808	393-557	.019-.059	.007-.055	.019-.118	.007-.035	Dry		
		IC830	328-492	.007-.055	.007-.035		Dry/Wet								
	Grey cast iron	12-13	200	420	1.402		IC808	360-524				.007-.059	.007-.035	Dry	
		IC830	328-490	.007-.059	.007-.035		Dry/Wet								
	Nodular cast iron	15-18	250	Class 40	0.6025 (GG25)		1.402	IC810				492-721	.015-.059	.015-.039	Dry
		IC810	394-656	.015-.059	.015-.039		Dry								
H	Hardened steel	17-18	200	Class 65-45-12	0.7050 (GGG50)	T	IC810	394-656	.019-.059	.015-.059	.019-.118	.015-.039	Dry		
		IC810	394-656	.015-.059	.015-.039		Dry								
H	Hardened steel	38	45-49 HRC	HARDXOX 450 plate		T	IC808	164-246	.019-.039	.007-.023	.019-.118	.007-.019	Dry		
		IC808	164-246	.019-.039	.007-.023		Dry								



MFQ8-12 - MODERATE FEED

Moderate Feed Face Mills Carrying Double-Sided Inserts with 8 Cutting Edges

- When milling near a wall using MFQ8, cutter up-milling is recommended



USE INSERT: FFQ8-SZMU-120520

PART #	DCX ⁽¹⁾	DC	APMX	Z ⁽²⁾	OAL	DHUB	DCONMS
MFQ8-D2.00-05-0.75-12	2.000	1.276	.1180	5	1.500	1.850	.750
MFQ8-D2.50-06-1.00-12	2.500	1.776	.1180	6	1.750	2.250	1.000
MFQ8-D3.00-07-1.00-12	3.000	2.276	.1180	7	1.750	2.250	1.000
MFQ8-D4.00-08-1.50-12	4.000	3.276	.1180	8	2.000	3.230	1.500

- Radius for programming .197" • To generate a straight surface without cusps, the width of cut must not exceed DC • For slot milling or machining with high tool overhang, the maximum depth of cut should be reduced by 30% ⁽¹⁾Cutting diameter maximum ⁽²⁾Number of inserts

SPARE PARTS

FOR CUTTERS	PART#: 1-000-			
	SCREW	TORX BLADE	T-HANDLE	SCREW 1
F/M FFQ8-D2.00-05-0.75-12	SR-M4X0.7-L11.5-IP15	BLD-IP15/S7	SW6-T-SH	SR-UNF-3/8X1-B18.3
F/M FFQ8-D2.50-06-1.00-12	SR-M4X0.7-L11.5-IP15	BLD-IP15/S7	SW6-T-SH	SR-UNF-1/2X20X1-B18.3
F/M FFQ8-D3.00-07-1.00-12	SR-M4X0.7-L11.5-IP15	BLD-IP15/S7	SW6-T-SH	SR-UNF-1/2X20X1-B18.3
F/M FFQ8-D4.00-08-1.50-12	SR-M4X0.7-L11.5-IP15	BLD-IP15/M7	SW6-T-SH	



* ISCAR material group in accordance with VDI 3323 standard
** Quenched and tempered
For machining in unstable conditions, the recommended cutting data should be reduced by 20-30%

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Email
sales@basstool.com

Houston
(713) 682-1889

Bass Tool & Supply, Inc.
www.basstool.com



LOGIQ4TURN
POSITIVE DOUBLE SIDED

Innovations 2021



Purchase
30 CXMG 09... Assorted Inserts
Receive 50% Additional Discount
on the Corresponding External Holder

Use Promo Code: **T2157**



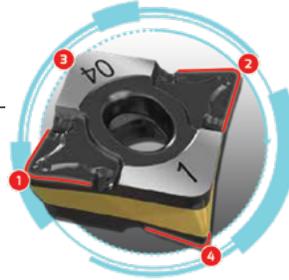
Purchase
40 CXMG 09... Assorted Inserts
Receive Free
Corresponding External Holder

Use Promo Code: **T2157**



Purchase
40 CXMG 09... Assorted Inserts
Receive 50% Additional Discount
on the Corresponding Internal Holder

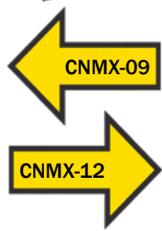
Code: **T2157**



Double-Sided Insert with 4 Positive Cutting Edges

ISCAR offers new double-sided inserts with 4 unique cutting edges as an advantageous alternative to the conventional ISO standard positive inserts with 2 cutting edges.

SPECIAL OFFERS



Purchase
30 CXMG 12... Assorted Inserts
Receive 50% Additional Discount
on the Corresponding External Holder

Use Promo Code: **T2158**



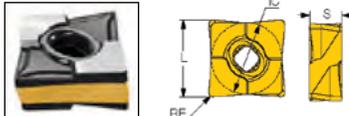
Purchase
40 CXMG 12... Assorted Inserts
Receive Free
Corresponding External Holder

Use Promo Code: **T2158**



CXMG

80° Double-Sided and Double-Positive Inserts with a Positive Rake



PART #	I.C.	S	RE	L
CXMG-090404-*	.382	.183	.0157	.409
CXMG-090408-*			.0315	.406
CXMG-12T504-*			.0157	.544
CXMG-12T508-*	.504	.228	.0315	.541
CXMG-12T512-*			.0472	.539

* ADD CHIPBREAKER AND GRADE THIS SELECTION GUIDES:

CHIPBREAKER	APPLICATION
F3P	Finishing on alloyed steel
M3P	Medium machining on alloyed steel
F3M	Finishing on stainless and hi-temp alloys
M3M	Medium machining on stainless and hi-temp alloys

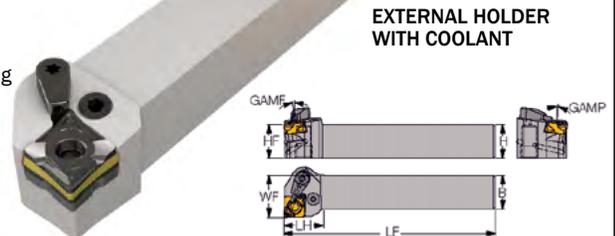
CARBIDE GRADE	APPLICATION
IC 8150	Finishing on alloyed steel
IC 8250	Medium cuts on alloyed steel
IC 8025	Stainless steel - medium cut
IC 806	Hi-temp alloys
IC 807	Stainless & hardened metals - interrupted cuts

ORDERING EXAMPLE:

CXMG-090408-M3P-IC8250

PCLXR/L-JHP

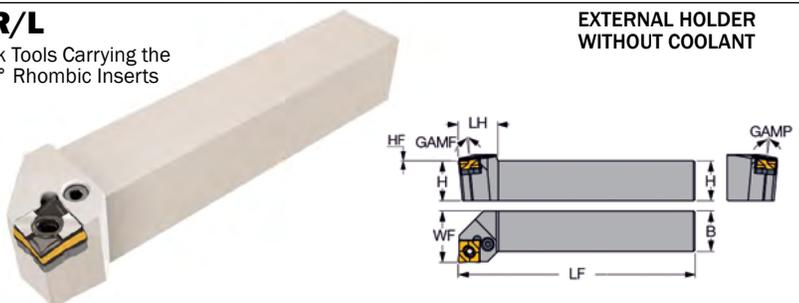
Lever Lock Tools with Channels for High Pressure Coolant Carrying the CXMG 80° Rhombic Inserts



PART #	B	H	HF	LF	LH	WF	GAMP	GAMF	INSERT
PCLXR/L-08-3X-JHP	.500	.500	.500	3.250	.875	.625			CXMG 09..
PCLXR/L-10-3X-JHP	.625	.625	.625	4.000	.800	.800	6.0	6.0	CXMG 12..
PCLXR/L-12-4X-JHP	.750	.750	.750	4.500	1.000	1.000			
PCLXR/L-16-4X-JHP	1.000	1.000	1.000	6.000	1.000	1.250			

PCLXR/L

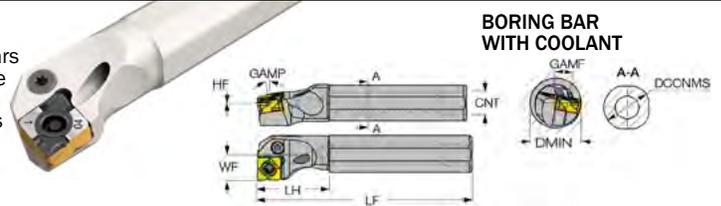
Lever Lock Tools Carrying the CXMG 80° Rhombic Inserts



PART #	B	H	HF	LF	LH	WF	GAMP	GAMF	INSERT
PCLXR/L-08-3X	.500	.500	.500	3.250	.875	.625			CXMG 09..
PCLXR/L-10-3X	.625	.625	.625	4.000	.800	.800	6.0	6.0	CXMG 12..
PCLXR/L-12-4X	.750	.750	.750	4.500	1.000	1.000			
PCLXR/L-16-4X	1.000	1.000	1.000	6.000	1.000	1.250			

A-PCLXR/L

Lever Lock Boring Bars Carrying the Negative CXMG 80° Rhombic Inserts



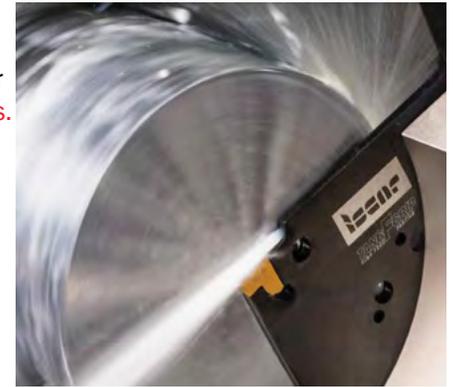
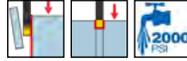
PART #	DCONMS	LF	LH	WF	HF	GAMP	GAMF	DMIN	CNT	INSERT
A-PCLXR/L-10-3X	.625	7.000	1.18	.433	.287	8.0	10.0	.750	UNC 3/8"-16	CXMG 09..
A-PCLXR/L-12-3X	.750	8.000	1.18	.512	.338	8.0	10.0	1.000	UNC 3/8"-16	
A-PCLXR/L-16-3X	1.000	10.000	1.57	.670	.460	6.0	8.0	1.250	UNC 1/2"-20	



Innovations 2021

High Feed Parting Tools

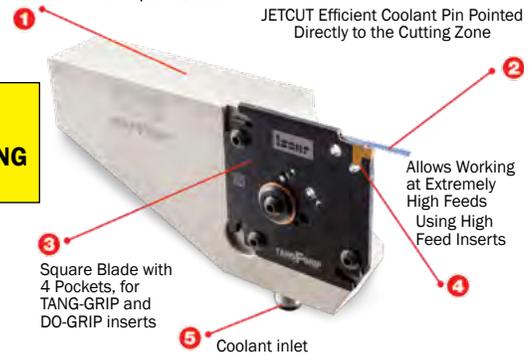
Revolutionary Quad Blade and Unique Holder
Enables Deeper Parting with High Feed Rates.
Guaranteed High Part Straightness,
and Improved Surface Finish



Parting with Extra Stability

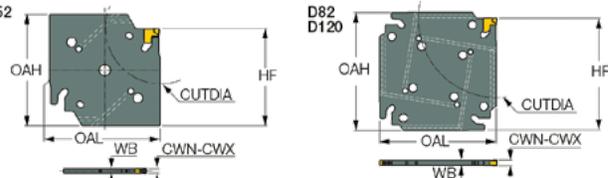
Reinforced and Robust Tool
Provides Extra Stability and Higher Productivity

Reinforced and robust tool block which
for incomparable stability
Suitable for TANGFGRIP
and DO-F-GRIP Square Blades



TOOL BLOCKS SHOWN ON THE FOLLOWING PAGE

TANGFGRIP BLADES FOR TANG-GRIP INSERTS



TGAQ-JHP BLADES

• WITH COOLANT HOLES

PART#	OAL	OAH	CWN ⁽¹⁾	CWX ⁽²⁾	WB	HF	CUTDIA	INSERTS
TGAQ-D52-2-2Z-JHP	1.968	1.97	.071	.098	.065	1.713	2.05	TAG-□2
TGAQ-D52-3-2Z-JHP	1.968	1.97	.110	.138	.098	1.713	2.05	TAG-□3
TGAQ-D52-4-2Z-JHP	1.968	1.97	.146	.177	.134	1.713	2.05	TAG-□4
TGAQ-D82-2-4Z-JHP	2.402	2.40	.071	.098	.065	2.283	3.23	TAG-□2
TGAQ-D82-3-4Z-JHP	2.402	2.40	.110	.138	.098	2.283	3.23	TAG-□3
TGAQ-D82-4-4Z-JHP	2.402	2.40	.146	.177	.134	2.283	3.23	TAG-□4
TGAQ-D120-3-4Z-JHP	3.563	3.56	.110	.138	.098	3.307	4.72	TAG-□3
TGAQ-D120-4-4Z-JHP	3.563	3.56	.146	.177	.134	3.307	4.72	TAG-□4
TGAQ-D120-5-4Z-JHP	3.563	3.56	.185	.217	.157	3.307	4.72	TAG-□5
TGAQ-D160-3-4Z-JHP	3.937	3.94	.110	.138	.098	3.819	6.30	TAG-□3
TGAQ-D160-4-4Z-JHP	3.937	3.94	.146	.177	.134	3.819	6.30	TAG-□4
TGAQ-D160-5-4Z-JHP	3.937	3.94	.185	.217	.157	3.819	6.30	TAG-□5

(1) Minimum cutting width (2) Maximum cutting width

TGAQ BLADES

• WITHOUT COOLANT HOLES

PART#	OAL	OAH	CWN ⁽¹⁾	CWX ⁽²⁾	WB	HF	CUTDIA	INSERTS
TGAQ-D52-2-2Z	1.968	1.97	.071	.098	.065	1.713	2.05	TAG 2
TGAQ-D52-3-2Z	1.968	1.97	.110	.138	.098	1.713	2.05	TAG 3
TGAQ-D52-4-2Z	1.968	1.97	.146	.177	.134	1.713	2.05	TAG 4
TGAQ-D82-2-4Z	2.402	2.40	.071	.098	.065	2.283	3.23	TAG 2
TGAQ-D82-3-4Z	2.402	2.40	.110	.138	.098	2.283	3.23	TAG 3
TGAQ-D82-4-4Z	2.402	2.40	.146	.177	.134	2.283	3.23	TAG 4
TGAQ-D120-3-4Z	3.563	3.56	.110	.138	.098	3.307	4.72	TAG 3
TGAQ-D120-4-4Z	3.563	3.56	.146	.177	.134	3.307	4.72	TAG 4
TGAQ-D120-5-4Z	3.563	3.56	.185	.217	.157	3.307	4.72	TAG 5
TGAQ-D160-3-4Z	3.937	3.94	.110	.138	.098	3.819	6.30	TAG 3
TGAQ-D160-4-4Z	3.937	3.94	.146	.177	.134	3.819	6.30	TAG 4
TGAQ-D160-5-4Z	3.937	3.94	.185	.217	.157	3.819	6.30	TAG 5

(1) Minimum cutting width (2) Maximum cutting width



Purchase

10 TAG Inserts from Width .079\"-.197\"
+ TGTBQ Block

Receive

Corresponding TGAQ Blade

Free

* JHP Holders are not included

Use Promo Code: T2144



Purchase

20 TAG Inserts from Width .079\"-.197\"
+ TGTBQ Block

Receive

Corresponding JHP TGAQ Blade

Free

Use Promo Code: T2145



Purchase

20 TAG Inserts from Width .079\"-.197\"

Receive

Corresponding TGAQ Blade

Free

* JHP Holders are not included

Use Promo Code: T2146



Purchase

30 TAG Inserts from Width .079\"-.197\"

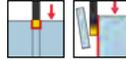
Receive

Corresponding JHP TGAQ Blade

Free

Use Promo Code: T2146

NOTE: TAG INSERTS SHOWN ON PAGE 8



Innovations 2021

High Feed Parting Tools

Revolutionary Quad Blade and Unique Holder
Enables Deeper Parting with High Feed Rates.
Guaranteed Free Parting, High Part Straightness,
and Improved Surface Finish.



Purchase

10 DGN Inserts
from Width .079"-.197" + TGTBQ Block

Receive

Corresponding DGAQ Blade

Free

* JHP Holders are not included



Purchase

20 DGN Inserts
from Width .079"-.197" + TGTBQ Block

Receive

Corresponding JHP DGAQ Blade

Free

* JHP Holders are not included



Purchase

20 DGN Inserts from Width .079"-.197"

Receive

Corresponding DGAQ Blade

Free

* JHP Holders are not included



Purchase

30 DGN Inserts from Width .079"-.197"

Receive

Corresponding JHP DGAQ Blade

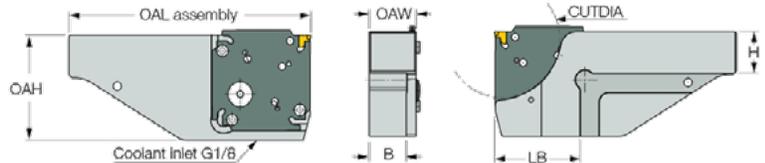
Free

* JHP Holders are not included

NOTE:
DGN INSERTS SHOWN
ON PAGE 8

TGTBQ-JHP TOOL-BLOCKS

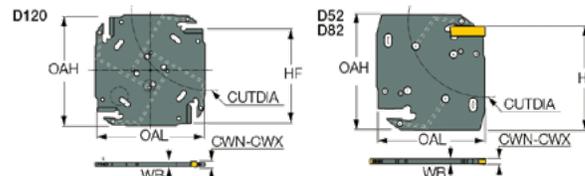
FOR BOTH TANG-F-GRIP
AND DO-F-GRIP BLADES



PART#	OAH	H	B	OAW	OAL	LB	CUTDIA
TGTBQ-19L-D52-JHP	1.97	.750	.772	1.008	4.803	1.339	2.05
TGTBQ-19R-D52-JHP	1.97	.750	.772	1.008	4.803	1.339	2.05
TGTBQ-25.4L-D52-JHP	1.97	1.000	1.024	1.260	5.197	1.339	2.05
TGTBQ-25.4R-D52-JHP	1.97	1.000	1.024	1.260	5.197	1.339	2.05
TGTBQ-19L-D82-JHP	2.52	.750	.772	1.008	5.512	2.087	3.22
TGTBQ-19R-D82-JHP	2.52	.750	.772	1.008	5.512	2.087	3.22
TGTBQ-25.4L-D82-JHP	2.52	1.000	1.024	1.260	5.906	2.087	3.22
TGTBQ-25.4R-D82-JHP	2.52	1.000	1.024	1.260	5.906	2.087	3.22
TGTBQ-31.8L-D82-JHP	2.52	1.250	1.280	1.516	5.925	2.106	3.22
TGTBQ-31.8R-D82-JHP	2.52	1.250	1.280	1.516	5.925	2.106	3.22
TGTBQ-25.4L-D120-JHP	3.74	1.000	1.024	1.260	6.496	2.638	4.72
TGTBQ-25.4R-D120-JHP	3.74	1.000	1.024	1.260	6.496	2.638	4.72
TGTBQ-31.8L-D120-JHP	3.74	1.250	1.280	1.516	6.496	2.638	4.72
TGTBQ-31.8R-D120-JHP	3.74	1.250	1.280	1.516	6.496	2.638	4.72
TGTBQ-25.4L-D160-JHP	4.21	1.000	1.024	1.260	7.500	3.642	6.30
TGTBQ-25.4R-D160-JHP	4.21	1.000	1.024	1.260	7.500	3.642	6.30
TGTBQ-31.8L-D160-JHP	4.21	1.250	1.280	1.516	7.500	3.642	6.30
TGTBQ-31.8R-D160-JHP	4.21	1.250	1.280	1.516	7.500	3.642	6.30
TGTBQ-38.1L-D160-JHP	4.21	1.500	1.520	1.756	7.500	3.642	6.30
TGTBQ-38.1R-D160-JHP	4.21	1.500	1.520	1.756	7.500	3.642	6.30



BLADES FOR DO-GRIP INSERTS



DGAQ BLADES

• WITHOUT COOLANT HOLES

PART#	OAL	OAH	CWN ⁽¹⁾	CWX ⁽²⁾	WB	HF	CUTDIA	INSERTS
DGAQ-D52-2-2Z	1.968	1.97	.075	.098	.068	1.713	2.05	DGN 2
DGAQ-D52-3-2Z	1.968	1.97	.118	.125	.098	1.713	2.05	DGN 3
DGAQ-D52-4-2Z	1.968	1.97	.157	.157	.126	1.713	2.05	DGN 4
DGAQ-D82-3-2Z	2.402	2.54	.118	.125	.098	2.283	3.23	DGN 3
DGAQ-D82-4-2Z	2.402	2.54	.157	.157	.126	2.283	3.23	DGN 4
DGAQ-D82-5-2Z	2.402	2.54	.197	.197	.157	2.283	3.23	DGN 5
DGAQ-D120-4-4Z	3.563	3.56	.157	.157	.126	3.307	4.72	DGN 4
DGAQ-D120-5-4Z	3.563	3.56	.197	.197	.157	3.307	4.72	DGN 5

DGAQ-JHP BLADES

• WITH COOLANT HOLES

PART#	OAL	OAH	CWN ⁽¹⁾	CWX ⁽²⁾	WB	HF	CUTDIA	INSERTS
DGAQ-D52-2-2Z-JHP	1.968	1.97	.075	.098	.068	1.713	2.05	DG□-2
DGAQ-D52-3-2Z-JHP	1.968	1.97	.118	.125	.098	1.713	2.05	DG□-3
DGAQ-D52-4-2Z-JHP	1.968	1.97	.157	.157	.126	1.713	2.05	DG□-4
DGAQ-D82-3-2Z-JHP	2.402	2.54	.118	.125	.098	2.283	3.23	DG□-3
DGAQ-D82-4-2Z-JHP	2.402	2.54	.157	.157	.126	2.283	3.23	DG□-4
DGAQ-D82-5-2Z-JHP	2.402	2.54	.197	.197	.157	2.283	3.23	DG□-5
DGAQ-D120-4-4Z-JHP	3.563	3.56	.157	.157	.126	3.307	4.72	DG□-4
DGAQ-D120-5-4Z-JHP	3.563	3.56	.197	.197	.157	3.307	4.72	DG□-5

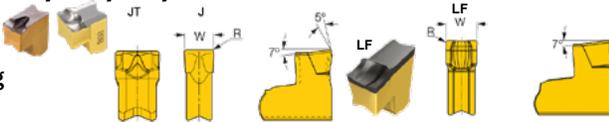
• When using .079 and .118" double-sided inserts, the depth of cut is limited up to .75". For larger depth, use a DGNM type single-ended insert.

(1) Minimum cutting width (2) Maximum cutting width



TANG-GRIP INSERTS
TAG N-J/JS/JT/LF

Parting and Grooving Inserts

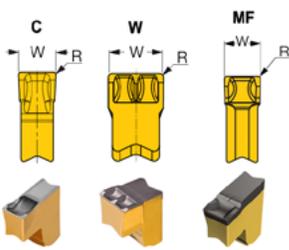


PART#	DIMENSIONS		RECOMMENDED MACHINING DATA f GROOVE (IPR)
	W±0.04	R±0.05	
TAG-N1.4J	.055	.006	.0012-.0039
TAG-N1.6J	.063	.006	.0012-.0047
TAG-N2JS	.079	.001	.0012-.0031
TAG-N2J	.079	.008	.0016-.0047
TAG-N2JT	.079	.008	.0016-.0039
TAG-N2LF	.079	.008	.0012-.0031
TAG-N3JS	.120	.001	.0016-.0039
TAG-N3J	.120	.008	.0016-.0063
TAG-N3JT	.120	.008	.0020-.0071
TAG-N3LF	.120	.008	.0016-.0039
TAG-N4J	.157	.009	.0016-.0071
TAG-N4JT	.159	.009	.0024-.0079
TAG-N5J	.199	.010	.0020-.0079
TAG-5JT	.199	.010	.0024-.0087

J	Parting & grooving single-ended inserts, for soft materials.
JS	Sharp corners
JT	Parting and grooving inserts for a wide range of materials, including soft or hard alloy and stainless steel, high temperature alloys and cast iron.
LF	Positive rake and sharp edges. Designed for stainless steel. Leaves clean cut edges.

TAG N-C/W/MF

Parting & Grooving Single-Ended Insert for Hard Materials and Tough Applications



PART#	W	W±TOL		R±.0016
		.0020	.0063	
TAG-N1.4C	.055	.0020	.0063	
TAG-N1.6C	.063	.0020	.0063	
TAG-N2C	.079	.0020	.0079	
TAG-N2MF	.079	.0020	.0079	
TAG-N2.4C	.094	.0016	.0063	
TAG-N3CB (1)	.118	.0020	.0138	
TAG-N3MF	.118	.0020	.0079	
TAG-N3C	.120	.0020	.0079	
TAG-N3M (2)	.120	.0020	.0079	
TAG-N3W	.120	.0020	.0079	
TAG-N4C	.157	.0020	.0094	
TAG-N4CB	.157	.0020	.0157	
TAG-N4M (2)	.157	.0020	.0094	
TAG-N4W	.157	.0020	.0094	
TAG-N4.8C	.189	.0020	.0118	
TAG-N5C	.199	.0020	.0098	

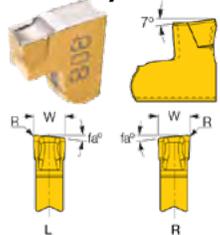
- (1) Larger corner radii for interrupted-cut and high feed applications
- (2) Similar to C-type, but with a modified edge. Improved chip control at medium feeds.

Note: The 'MF' chipformer was designed for stainless steel, steel & hard materials.

The MF chipformer has the basic design of the "C" chipformer with high deflector and smaller T-land, most suitable for medium to high feeds

TAG R/L-C

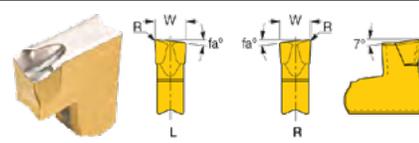
Parting, Single-Ended Insert for Bars, Hard Materials and Tough Parting Applications



PART#	W±.004	R ±.002	fa°
TAG-R/L2C-6D	.081	.008	6.0
TAG-R2.4C-8D	.094	.006	8.0
TAG-R/L3C-6D	.118	.008	6.0
TAG-R3C-8D	.118	.008	8.0
TAG-R/L3C-15D	.118	.008	15.0
TAG-R/L4C-4D	.159	.009	4.0
TAG-R/L5C-4D	.199	.010	4.0

TAG R/L-J/JS

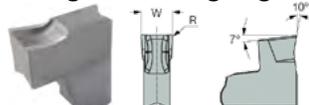
TANG-GRIP parting inserts for soft materials, tubes, small diameters and thin-walled parts.



PART#	DIMENSIONS			RECOMMENDED MACHINING DATA f GROOVE (IPR)
	W	R	Fa°	
TAG-R/L1.4J-8D	.055	.006	8.0	.0012-.0031
TAG-R/L1.4JS-10D	.055	.001	10.0	.0010-.0024
TAG-R/L2J-6D	.079	.008	6.0	.0012-.0040
TAG-R/L2JS-6D	.079	.001	6.0	.0010-.0031
TAG-R/L2J-15D	.079	.008	15.0	.0012-.0031
TAG-R/L2JS-15D	.079	.001	15.0	.0010-.0024
TAG-R/L3J-6D	.118	.008	6.0	.0020-.0060
TAG-R/L3JS-6D	.118	.001	6.0	.0012-.0040
TAG-R/L3J-15D	.118	.008	15.0	.0020-.0050
TAG-R/L3JS-15D	.118	.001	15.0	.0012-.0031
TAG-R/L4J-4D	.157	.009	4.0	.0020-.0060
TAG-R/L5J-4D	.199	.010	4.0	.0020-.0071

TAG N-A

Parting and Grooving Single-Ended Insert for Machining Aluminum



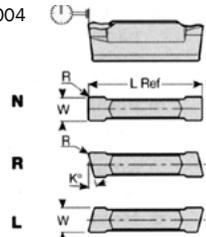
PART#	W±0.04	R±0.05
TAG-N2A	.083	.008
TAG-N3A	.120	.008
TAG-N4A	.159	.009

DO-GRIP INSERTS
C-TYPE DGN/R/L



- First choice for the parting of bars, hard materials and tough applications.
- Positive rake and a single cavity with negative land and shoulders provide extra cutting edge strength.
- Medium to high feed.

Repeatability ±.004



PART #	W	R	Tmax	Lref	K°
DGN-2002C	.079	.0080	.776	.785	-
DGN-2202C	.087	.0080	.780	.779	-
DGN-2502C	.098	.0080	.740	.788	-
DGR/L-2202C-6D	.087	.0080	.709	.768	6
HGN-3003C	.118	.0120	*	.622	-
HGR/L-3003C-6D	.118	.0120	*	.614	6
DGN-3102C	.122	.0080	.791	.788	-
DGR/L-3102C-6D	.122	.0080	.709	.811	6
DGR-3102C-8D	.122	.0080	.709	.807	8
DGR/L-3102C-15D	.122	.0080	.709	.803	15
DGNM-3202C	.125	.0080	.709	.788	-
DGN-4003C	.157	.0120	*	.746	-
DGR/L-4003C-4D	.157	.0120	*	.764	4
DGN-4803C	.189	.0118	*	.780	-
DGR-4803C-4D	.189	.0118	*	.790	-
DGR-4803C-8D	.189	.0118	*	.790	-
DGR-4800CS-4D	.189	.0010	*	.767	-
DGR-4800CS-8D	.189	.0010	*	.778	-
DGN-5003C	.197	.0120	*	.752	-
DGR/L-5003C-4D	.197	.0120	*	.768	4

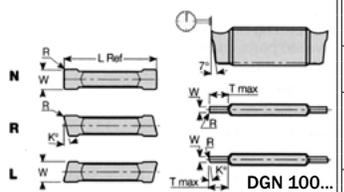
*No Depth Limit

J-TYPE

- First choice for soft materials, parting of tubes, small diameters and thin-walled parts.
- Cutting edge with positive rake.
- General applications on low carbon steel, alloy steel, austenitic stainless steel.
- Low to medium feed

JS-Type sharp corners.

Repeatability ±.004



PART #	W	R	Tmax	Lref	K°
DGN-1002J	.039	.0060	.118	.811	-
DGR/L-1001J-8D	.039	.0030	.118	.803	8
DGN-1402J	.055	.0060	.591	.622	-
DGR/L-1402J-8D	.055	.0060	.591	.614	8
DGR/L-1400JS-15D	.055	.010	.591	.587	15
DGN-1502J	.059	.0030	.709	.823	-
DGR-1500J-8D	.059	.0020	.709	.799	8
DGN-2202J	.087	.0080	.709	.779	-
DGN-2200JS	.087	.010	.709	.780	-
DGR/L-2202J-6D	.087	.0080	.709	.819	6
DGR/L-2202J-15D	.087	.0080	.709	.791	15
DGR/L-2200JS-6D	.087	.010	.709	.791	6
DGR/L-2200JS-15D	.087	.010	.709	.791	15
HGN-3002J	.118	.0080	*	.630	-
HGR/L-3002J-6D	.118	.0080	*	.618	6
HGR/L-3000JS-15D	.118	.010	*	.598	15
DGN-3102J	.122	.0080	.709	.791	-
DGN-3100JS	.122	.010	.709	.783	-
DGR/L-3102J-6D	.122	.0080	.709	.803	6
DGR/L-3100JS-6D	.122	.010	.709	.796	6
DGR/L-3102J-15D	.122	.0080	.709	.803	15
DGR/L-3100JS-15D	.122	.010	.709	.780	15
DGNM-3202J	.125	.0080	.709	.791	-
DGN-4003J	.157	.0120	*	.747	-
DGR/L-4003J-4D	.157	.0120	*	.772	4
DGR-4000JS-15D	.157	.0000	*	.764	15
DGN-4803J	.189	.0118	*	.780	-
DGR-4803J-4D	.189	.0118	*	.780	4
DGR-4803J-8D	.189	.0118	*	.780	8
DGR-4800JS-4D	.189	.0010	*	.780	4
DGR-4800JS-8D	.189	.0010	*	.780	8
DGN-5003J	.197	.0120	*	.747	-
DGR/L-5003J-4D	.197	.0120	*	.756	4

*No Depth Limit

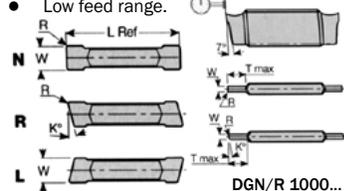
P-TYPE SUPER POSITIVE

Z-TYPE

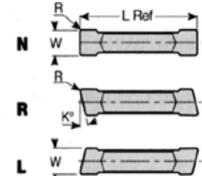
- Super positive rake angle and sharp cutting edge.
- Low cutting force, reduced built-up edge.
- For soft materials, slim parts and general parting.
- Low feed range.



Repeatability +/- .004



- Cutting edge with high positive rake, suitable for parting of tubes, thin walled parts and for small diameters.
- Suitable for soft materials.
- Excellent for cutting bearing steel and stainless steel.
- Low to medium feeds.
- ZS - type sharp corners

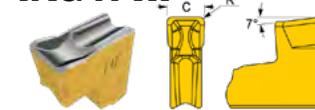


PART #	W ±.0008	R	Tmax	Lref	K°
DGN-1000P	.039	.002	.118	.787	-
DGR-1000P-6D	.039	.002	.118	.787	6
DGR-1000P-15D	.039	.002	.118	.787	15
DGN-1500P	.059	.002	.709	.787	-
DGR-1500P-6D	.059	.002	.709	.787	6
DGR-1500P-15D	.059	.002	.709	.787	15
DGN-2000P	.079	.002	.709	.787	-
DGR-2000P-6D	.079	.002	.709	.787	6
DGR-2000P-15D	.079	.002	.709	.787	15

PART #	W	R	Tmax	Lref	K°
DGN-2002Z	.079	.008	.709	.827	-
DGR-2002Z-6D	.087	.008	.709	.827	6
DGR-2002Z-15D	.087	.008	.709	.827	15
DGR-2000ZS-6D	.079	.001	.709	.811	6
DGR-2000ZS-15D	.079	.001	.709	.811	15
DGN-3002Z	.118	.008	.709	.827	-
DGR-3002Z-6D	.118	.008	.709	.827	6
DGR-3002ZS-15D	.118	.008	.709	.827	15
DGR-3000ZS-6D	.118	.001	.709	.811	6
DGR-3000ZS-15D	.118	.001	.709	.811	15

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TAG-N4HF	.157	.0197
TAG-N5HF	.197	.0197

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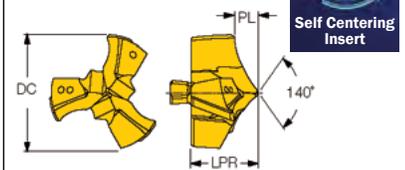
4 DIFFERENT LENGTHS

1.5xD 3xD 5xD 8xD

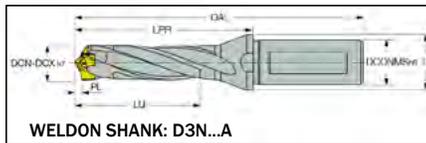
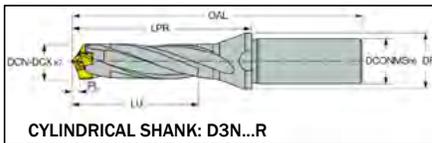
AVAILABLE WITH METRIC SHANKS - PLEASE INQUIRE

H3P INSERTS

Exchangeable Flute Drilling Heads for Carbon and Alloy Steel (ISO P) and Cast Iron (ISO K)



AVAILABLE WITH CYLINDRICAL SHANK (R) OR WITH WELDON SHANK (A) INSERT 'R' OR 'A' WHERE * IS SHOWN IN PART #.



PART#	DC	LPR	SSC ⁽¹⁾	PL
H3P-0472-IQ	.472			
H3P-0480-IQ	.480			
H3P-0484-IQ	.484			
H3P-0492-IQ	.492			
H3P-0496-IQ	.496			
H3P-0500-IQ	.500			
H3P-0504-IQ	.504			
H3P-0512-IQ	.512			
H3P-0516-IQ	.516			
H3P-0524-IQ	.524			
H3P-0531-IQ	.531			
H3P-0543-IQ	.543			
H3P-0551-IQ	.551			
H3P-0555-IQ	.555			
H3P-0559-IQ	.559			
H3P-0563-IQ	.563			
H3P-0567-IQ	.567			
H3P-0571-IQ	.571			
H3P-0575-IQ	.575			
H3P-0579-IQ	.579			
H3P-0583-IQ	.583			
H3P-0587-IQ	.587			
H3P-0591-IQ	.591			
H3P-0594-IQ	.594			
H3P-0598-IQ	.598			
H3P-0602-IQ	.602			
H3P-0606-IQ	.606			
H3P-0610-IQ	.610			
H3P-0614-IQ	.614			
H3P-0618-IQ	.618			
H3P-0622-IQ	.622			
H3P-0625-IQ	.625			
H3P-0630-IQ	.630			
H3P-0634-IQ	.634			
H3P-0638-IQ	.638			
H3P-0642-IQ	.642			
H3P-0646-IQ	.646			
H3P-0650-IQ	.650			
H3P-0654-IQ	.654			
H3P-0658-IQ	.658			
H3P-0662-IQ	.662			
H3P-0666-IQ	.666			
H3P-0670-IQ	.670			
H3P-0674-IQ	.674			
H3P-0678-IQ	.678			
H3P-0682-IQ	.682			
H3P-0686-IQ	.686			
H3P-0690-IQ	.690			
H3P-0694-IQ	.694			
H3P-0698-IQ	.698			
H3P-0702-IQ	.702			
H3P-0706-IQ	.706			
H3P-0710-IQ	.710			
H3P-0714-IQ	.714			
H3P-0718-IQ	.718			
H3P-0722-IQ	.722			
H3P-0726-IQ	.726			
H3P-0730-IQ	.730			
H3P-0734-IQ	.734			
H3P-0738-IQ	.738			
H3P-0742-IQ	.742			
H3P-0746-IQ	.746			
H3P-0750-IQ	.750			
H3P-0754-IQ	.754			
H3P-0758-IQ	.758			
H3P-0762-IQ	.762			
H3P-0766-IQ	.766			
H3P-0770-IQ	.770			
H3P-0774-IQ	.774			
H3P-0778-IQ	.778			
H3P-0782-IQ	.782			
H3P-0786-IQ	.786			
H3P-0790-IQ	.790			
H3P-0794-IQ	.794			
H3P-0798-IQ	.798			
H3P-0802-IQ	.802			
H3P-0806-IQ	.806			
H3P-0810-IQ	.810			
H3P-0814-IQ	.814			
H3P-0818-IQ	.818			
H3P-0822-IQ	.822			
H3P-0826-IQ	.826			
H3P-0830-IQ	.830			
H3P-0834-IQ	.834			
H3P-0838-IQ	.838			
H3P-0842-IQ	.842			
H3P-0846-IQ	.846			
H3P-0850-IQ	.850			
H3P-0854-IQ	.854			
H3P-0858-IQ	.858			
H3P-0862-IQ	.862			
H3P-0866-IQ	.866			
H3P-0870-IQ	.870			
H3P-0874-IQ	.874			
H3P-0878-IQ	.878			
H3P-0882-IQ	.882			
H3P-0886-IQ	.886			
H3P-0890-IQ	.890			
H3P-0894-IQ	.894			
H3P-0898-IQ	.898			
H3P-0902-IQ	.902			
H3P-0906-IQ	.906			
H3P-0910-IQ	.910			
H3P-0914-IQ	.914			
H3P-0918-IQ	.918			
H3P-0922-IQ	.922			
H3P-0926-IQ	.926			
H3P-0930-IQ	.930			
H3P-0934-IQ	.934			
H3P-0938-IQ	.938			
H3P-0942-IQ	.942			
H3P-0946-IQ	.946			
H3P-0950-IQ	.950			
H3P-0954-IQ	.954			
H3P-0958-IQ	.958			
H3P-0962-IQ	.962			
H3P-0966-IQ	.966			
H3P-0970-IQ	.970			
H3P-0974-IQ	.974			
H3P-0978-IQ	.978			
H3P-0982-IQ	.982			
H3P-0986-IQ	.986			
H3P-0990-IQ	.990			
H3P-0994-IQ	.994			
H3P-0998-IQ	.998			
H3P-1000-IQ	1.000			
H3P-1020-IQ	1.020			

xD	PART#	DCN Cutting diameter minimum	DCX Cutting diameter maximum	LU	PL	DCONMS	DF	LPR	OAL	SSC Seat size code
1.5xD	D3N-0472-071-063*-1.5D	.472	.488	.8160	1.0670	.625	.787	1.691	3.580	12
	D3N-0492-074-063*-1.5D	.492	.508	.8460	1.0670	.625	.787	1.750	3.639	12
	D3N-0512-077-063*-1.5D	.512	.528	.8830	1.1460	.625	.787	1.835	3.724	13
	D3N-0531-080-063*-1.5D	.532	.547	.9120	1.1460	.625	.787	1.894	3.763	13
	D3N-0551-083-063*-1.5D	.551	.567	.9500	1.2210	.625	.787	1.973	3.862	14
	D3N-0571-085-063*-1.5D	.571	.587	.9790	1.2210	.625	.787	2.032	3.921	14
	D3N-0591-089-075*-1.5D	.591	.626	1.0230	1.3660	.750	.984	2.114	4.081	15
	D3N-0630-095-075*-1.5D	.630	.665	1.0810	1.3660	.750	.984	2.256	4.223	16
	D3N-0669-100-075*-1.5D	.669	.705	1.1430	1.3860	.750	.984	2.392	4.359	17
	D3N-0709-106-100*-1.5D	.709	.744	1.2170	1.5360	1.000	1.260	2.536	4.739	18
	D3N-0748-112-100*-1.5D	.748	.784	1.2840	1.6140	1.000	1.260	2.676	4.879	19
	D3N-0787-118-100*-1.5D	.787	.823	1.3520	1.7010	1.000	1.260	2.807	5.010	20
	D3N-0827-126-100*-1.5D	.827	.862	1.4200	1.7910	1.000	1.260	2.947	5.150	21
	D3N-0866-130-100*-1.5D	.866	.902	1.4850	1.8470	1.000	1.260	3.098	5.300	22
	D3N-0906-138-125*-1.5D	.906	.941	1.5530	1.9330	1.250	1.575	3.231	5.591	23
	D3N-0945-142-125*-1.5D	.945	.980	1.6240	2.0510	1.250	1.575	3.370	5.730	24
D3N-0984-150-125*-1.5D	.984	1.020	1.6870	2.0910	1.250	1.575	3.515	5.871	25	
3xD	D3N-0472-141-063*-3D	.472	.488	1.5250	1.0670	.625	.790	2.400	4.288	12
	D3N-0492-147-063*-3D	.492	.508	1.5840	1.0670	.625	.790	2.489	4.377	12
	D3N-0512-153-063*-3D	.512	.528	1.6510	1.1460	.625	.790	2.604	4.492	13
	D3N-0531-159-063*-3D	.531	.547	1.7100	1.1460	.625	.790	2.692	2.690	13
	D3N-0551-165-063*-3D	.551	.567	1.7770	1.2210	.625	.790	2.801	4.689	14
	D3N-0571-171-063*-3D	.571	.587	1.8360	1.2210	.625	.790	2.889	4.777	14
	D3N-0591-177-075*-3D	.591	.626	1.9100	1.3660	.750	.980	3.001	4.967	15
	D3N-0630-189-075*-3D	.630	.665	2.0270	1.3540	.750	.980	3.201	5.168	16
	D3N-0669-201-075*-3D	.669	.705	2.1480	1.3860	.750	.980	3.397	5.363	17
	D3N-0709-213-100*-3D	.709	.744	2.2810	1.5360	1.000	1.260	3.600	5.802	18
	D3N-0748-224-100*-3D	.748	.783	2.4070	1.6140	1.000	1.260	3.799	6.001	19
	D3N-0787-236-100*-3D	.787	.823	2.5340	1.7010	1.000	1.260	3.989	6.191	20
	D3N-0827-248-100*-3D	.827	.862	2.6610	1.7910	1.000	1.260	4.188	4.185	21
	D3N-0866-260-100*-3D	.866	.902	2.7850	1.8470	1.000	1.260	4.398	6.600	22
	D3N-0906-272-125*-3D	.906	.941	2.9120	1.9330	1.250	1.650	4.590	6.949	23
	D3N-0945-283-125*-3D	.945	.980	3.0420	2.0510	1.250	1.650	4.789	7.148	24
D3N-0984-295-125*-3D	.984	1.020	3.1640	2.0910	1.250	1.650	4.993	7.347	25	
5xD	D3N-0472-236-063*-5D	.472	.488	2.4710	1.0670	.625	.790	3.346	5.233	12
	D3N-0492-246-063*-5D	.492	.508	2.5690	1.0670	.625	.790	3.474	5.361	12
	D3N-0512-256-063*-5D	.512	.528	2.6760	1.1460	.625	.790	3.628	5.515	13
	D3N-0531-266-063*-5D	.531	.547	2.7740	1.1460	.625	.790	3.756	5.643	13
	D3N-0551-275-063*-5D	.551	.567	2.8800	1.2210	.625	.790	3.904	5.791	14
	D3N-0571-285-063*-5D	.571	.587	2.9790	1.2210	.625	.790	4.032	5.919	14
	D3N-0591-295-075*-5D	.591	.626	3.0920	1.3660	.750	.980	4.183	6.148	15
	D3N-0630-315-075*-5D	.630	.665	3.2870	1.3540	.750	.980	4.462	6.428	16
	D3N-0669-335-075*-5D	.669	.705	3.4880	1.3860	.750	.980	4.737	6.702	17
	D3N-0709-354-100*-5D	.709	.744	3.7000	1.5360	1.000	1.260	5.018	7.219	18
	D3N-0748-374-100*-5D	.748	.783	3.9040	1.6140	1.000	1.260	5.296	7.497	19
	D3N-0787-394-100*-5D	.787	.823	4.1100	1.7010	1.000	1.260	5.565	7.766	20
	D3N-0827-413-100*-5D	.827	.862	4.3160	1.7910	1.000	1.260	5.843	8.044	21
	D3N-0866-433-100*-5D	.866	.902	4.5190	1.8470	1.000	1.260	6.131	8.332	22
	D3N-0906-453-125*-5D	.906	.941	4.7240	1.9330	1.250	1.650	6.402	8.760	23
	D3N-0945-472-125*-5D	.945	.980	4.9330						



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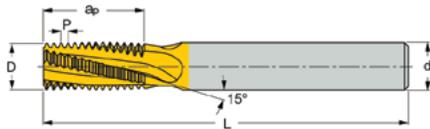
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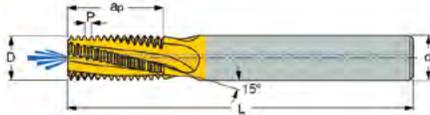
SOLID THREAD SOLID CARBIDE THREAD MILLS

MTEC-UN Solid Carbide Threading Endmills for Internal UN Thread Profile



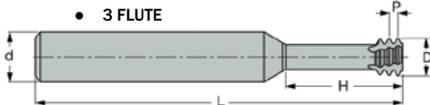
PART #	TPI	UNC	UNF	UNEF	d	D	# FL	L
MTEC-0250C02-40UN	40	5	-	-	.250	.098	3	3
MTEC-0250C02-32UN	32	8	10	12	.250	.126	3	3
MTEC-0250C04-28UN	28	-	1/4	7/16-1/2	.250	.160	3	3
MTEC-0250C06-24UN	24	-	5/16-3/8	-	.250	.200	3	3
MTEC-0312C08-16UN	24	-	-	9/16-5/8	.312	.280	3	3
MTEC-0250C05-20UN	20	1/4	-	-	.250	.180	3	3
MTEC-0250C06-18UN	20	-	7/16-1/2	-	.312	.280	3	3
MTEC-0500E11-20UN	20	-	-	3/4-1	.500	.470	5	5
MTEC-0250C06-18UN	18	5/16	-	-	.250	.200	3	3
MTEC-0375D10-18UN	18	-	9/16-5/8	1.1/8-1.5/8	.375	.375	4	4
MTEC-0250C07-16UN	16	3/8	-	-	.250	.240	3	3
MTEC-0500D12-16UN	16	-	3/4	-	.500	.470	4	4
MTEC-0312C08-14UN	14	7/16	-	-	.312	.280	3	3
MTEC-0625E15-14UN	14	-	7/8	-	.625	.590	5	5
MTEC-0312C08-13UN	13	1/2	-	-	.312	.310	3	3
MTEC-0375C10-12UN	12	9/16	-	-	.375	.375	3	3
MTEC-0625E16-12UN	12	-	1-1.1/2	-	.625	.630	5	5
MTEC-0375C11-11UN	11	5/8	-	-	.375	.375	3	3
MTEC-0500C14-10UN	10	3/4	-	-	.500	.470	3	3
MTEC-0625C15-9UN	9	7/8	-	-	.625	.590	3	3
MTEC-0625C17-8UN	8	1.0	-	-	.625	.625	3	3
MTEC-0750D17-7UN	7	1.1/8-1.1/4	-	-	.750	.750	4	4

MTECB-UN Solid Carbide Threading Endmills with Coolant Holes for Internal UN Thread Profile



PART #	TPI	UNC	UNF	UNEF	d	D	# FL	ap	L
MTECB-0250C05-32UN	32	-	1/4	5/16	.250	.250	3	.58	2.5
MTECB-0250C04-28UN	28	-	5/16	7/16-1/2	.250	.197	3	.44	2.5
MTECB-0250C05-28UN	28	-	5/16	7/16-1/2	.250	.250	3	.56	2.5
MTECB-0312C05-24UN	24	-	5/16	-	.312	.260	3	.56	2.5
MTECB-0312D08-24UN	24	-	-	3/8-5/8	.312	.312	4	.81	2.5
MTECB-0250C04-20UN	20	1/4	-	-	.250	.185	3	.48	2.5
MTECB-0312C08-20UN	20	-	7/16	-	.312	.312	3	.83	2.5
MTECB-0375D08-20UN	20	-	1/2	-	.375	.375	4	.88	3.0
MTECB-0250C05-18UN	18	5/16	-	-	.250	.220	3	.58	2.5
MTECB-0500D10-18UN	18	-	9/16-5/8	1.1/8-1.5/8	.500	.445	4	1.03	4.0
MTECB-0312C06-16UN	16	3/8	-	-	.312	.264	3	.66	2.5
MTECB-0500D12-16UN	16	-	3/4	-	.500	.500	4	1.22	3.5
MTECB-0312C08-14UN	14	7/16	-	-	.312	.303	3	.82	2.5
MTECB-0625E14-14UN	14	-	7/8	-	.625	.625	5	1.46	4.0
MTECB-0375C08-13UN	13	1/2	-	-	.375	.362	3	.89	3.0
MTECB-0625E16-12UN	12	-	1-1.1/2	-	.625	.625	5	1.63	4.0
MTECB-0500C11-11UN	11	5/8	-	-	.500	.449	3	1.14	4.0
MTECB-0625D13-10UN	10	3/4	-	-	.625	.567	4	1.35	4.0
MTECB-0625C15-9UN	9	7/8	-	-	.625	.625	3	1.50	4.0

MTECSH-UN Small Diameter Short Left-Hand Solid Carbide UN Profile Threading Endmills for Hardened Steel

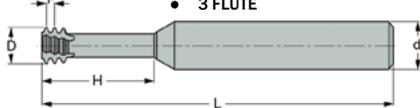


Left-hand tools (CNC code M04)
For right hand tools see above

PART #	TPI	UNC	UNF	d	D	H	L
MTECSH-0250C15-72UN	72	-	1	.250	.057	.15	2.5
MTECSH-0250C17-56UN	56	2	3	.250	.065	.17	2.5
MTECSH-0250C20-48UN	48	3	4	.250	.075	.20	2.5
MTECSH-0250C25-40UN	40	4	-	.250	.083	.25	2.5
MTECSH-0250C28-32UN	32	6	-	.250	.100	.28	2.5
MTECSH-0250C37-32UN	32	8	-	.250	.126	.37	2.5
MTECSH-0250C41-32UN	32	-	10	.250	.146	.41	2.5
MTECSH-0250C49-32UN	32	8	-	.250	.126	.49	2.5
MTECSH-0250C59-32UN	32	-	10	.250	.146	.59	2.5
MTECSH-0250C57-28UN	28	-	1/4	.250	.197	.57	2.5
MTECSH-0250C55-20UN	20	1/4	-	.250	.187	.55	2.5
MTECSH-0250C75-20UN	20	1/4	-	.250	.187	.75	2.5
MTECSH-0250C67-18UN	18	5/16	-	.250	.236	.67	2.5
MTECSH-0250C91-18UN	18	5/16	-	.250	.236	.91	2.5
MTECSH-0312C87-16UN	16	3/8	-	.312	.264	.87	2.5
MTECSH-0375C10-13UN	13	1/2	-	.375	.362	1.08	3.0

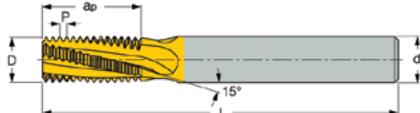
Also available: UNJ
Please call for details

MTECS-UN Small Diameter Solid Carbide UN Profile Threading Endmills for Steel



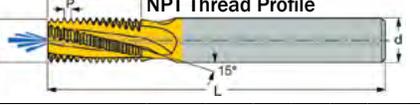
PART #	TPI	UNC	UNF	d	D	H	L
MTECS-0250C16-80UN	80	-	-	.250	.045	.160	2.5
MTECS-0250C15-72UN	72	-	-	.250	.057	.150	2.5
MTECS-0250C15-64UN	64	1	2	.250	.055	.150	2.5
MTECS-0250C17-56UN	56	2	3	.250	.065	.170	2.5
MTECS-0250C20-48UN	48	3	4	.250	.075	.200	2.5
MTECS-0250C25-40UN	40	4	-	.250	.083	.250	2.5
MTECS-0250C28-40UN	40	5	6	.250	.096	.280	2.5
MTECS-0250C31-40UN	40	4	-	.250	.083	.310	2.5
MTECS-0250C35-36UN	40	5	6	.250	.096	.380	2.5
MTECS-0250C35-36UN	36	-	8	.250	.130	.350	2.5
MTECS-0250C28-32UN	32	6	-	.250	.100	.280	2.5
MTECS-0250C37-32UN	32	8	-	.250	.126	.370	2.5
MTECS-0250C40-32UN	32	6	-	.250	.100	.410	2.5
MTECS-0250C41-32UN	32	-	10	.250	.146	.410	2.5
MTECS-0250C49-32UN	32	8	-	.250	.126	.490	2.5
MTECS-0250C59-32UN	32	-	10	.250	.146	.590	2.5
MTECS-0250C57-28UN	28	-	1/4	.250	.197	.570	2.5
MTECS-0250C75-28UN	28	-	1/4	.250	.197	.750	2.5
MTECS-0250C42-24UN	24	10.12	-	.250	.138	.420	2.5
MTECS-0250C55-20UN	20	1/4	-	.250	.187	.550	2.5
MTECS-0250C75-20UN	20	1/4	-	.250	.187	.750	2.5
MTECS-0250C67-18UN	18	5/16	-	.250	.236	.670	2.5
MTECS-0250C91-18UN	18	5/16	-	.250	.236	.910	2.5
MTECS-0312C67-24UN	24	-	5/16	.312	.260	.670	2.5
MTECS-0312C94-24UN	24	-	5/16	.312	.260	.940	2.5
MTECS-0312C87-16UN	16	3/8	-	.312	.264	.870	2.5
MTECS-0312C98-20UN	20	-	7/16	.312	.312	.980	2.5
MTECS-0312C98-14UN	14	7/16	-	.312	.303	.980	2.5
MTECS-0375C10-13UN	13	1/2	-	.375	.362	1.080	3.0
MTECS-0500C12-12UN	12	9/16	-	.500	.413	1.240	3.0
MTECS-0500C13-11UN	11	5/8	-	.500	.449	1.360	3.0

MTECNPT Solid Carbide Threading Endmills for External or Internal NPT Thread Profile



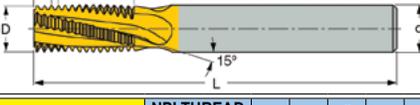
PART #	NPT THREAD SIZE	TPI	d	D	# FL	ap	L
MTEC-0250C03-27NPT	1/16	27	.250	.230	3	.39	2.5
MTEC-0250C04-27NPT	1/8	27	.250	.250	3	.40	2.5
MTEC-0250C08-18NPT	1/4 3/8	18	.312	.312	3	.60	2.5
MTEC-0500D08-14NPT	1/2 3/4	14	.500	.500	4	.80	3.5
MTEC-0625D11-11.5NPT	1 1/2	11	.625	.620	4	1.10	4.0
MTEC-0750D16-8NPT	=2 1/2	8	.750	.750	4	1.60	4.0

MTECB-NPT Solid Carbide Threading Endmills with Coolant Holes for External or Internal NPT Thread Profile



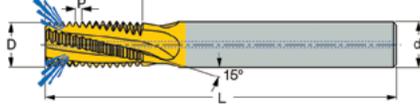
PART #	NPT THREAD SIZE	TPI	d	D	# FL	ap	L
MTECB-0312C04-27NPT	1/8	27	.312	.299	3	.43	2.5
MTECB-0375D06-18NPT	1/4 3/8	18	.375	.375	4	.64	3.0
MTECB-0625D08-14NPT	1/2 3/4	14	.625	.610	4	.89	4.0

MTECNPTF Solid Carbide Threading Endmills for External or Internal NPTF Thread Profile



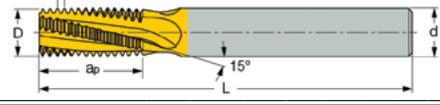
PART #	NPTF THREAD SIZE	TPI	d	D	# FL	ap	L
MTEC-0250C04-27NPTF	1/8	27	.250	.250	3	.39	2.5
MTEC-0312C06-18NPTF	1/4 3/8	18	.312	.312	3	.58	2.5
MTEC-0500D08-14NPTF	1/2 3/4	14	.500	.500	4	.82	3.5

MTECZ-NPTF WITH COOLANT HOLE (DIMENSIONS SHOWN IN MM)



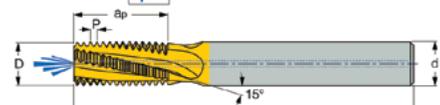
PART #	NPTF THREAD SIZE	d	D	# FL	ap	L
MTECZ-08076C10-27NPTF	27.0	1/8	8	7.6	3	10.8 64
MTECZ-1010D16-18NPTF	18.0	1/4-3/8	10	10.0	4	16.2 73

MTEC-ISO Solid Carbide Internal Threading Endmills for ISO Thread Profile



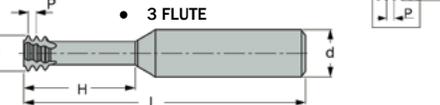
PART #	Pitch mm	M Coarse	M Fine	d	D	# FL	ap	L
MTEC-0250C04-0.8ISO	.80	M5	=>24	.250	.142	3	.36	2.5
MTEC-0250C07-1.25ISO	1.25	M8	=>39	.250	.197	3	.76	2.5
MTEC-0312C09-1.5ISO	1.50	M10	=>47	.312	.280	3	.70	2.5
MTEC-0312C09-1.5ISO	1.50	M10	=>47	.312	.276	3	.98	2.5
MTEC-0375D09-1.5ISO	1.50	-	=>55	.375	.370	4	.90	3.0
MTEC-0625F13-1.5ISO	1.50	-	=>79	.625	.620	6	1.30	4.0
MTEC-0312C11-1.75ISO	1.75	M12	=>55	.312	.313	3	1.14	2.5
MTEC-0375C11-2.0ISO	2.00	M16	=>67	.375	.370	3	1.10	3.0
MTEC-0625C23-3.0ISO	3.00	M24	=>98	.625	.625	3	2.31	4.5

MTECB-ISO Solid Carbide Internal Threading Endmills with Coolant Holes for ISO Thread Profile



PART #	Pitch mm	M Coarse	M Fine	d	D	# FL	ap	L
MTECB-0250C06-1.0ISO	1.00	M6	=>28	.250	.181	3	.60	2.5
MTECB-0250C07-1.25ISO	1.25	M8	=>39	.250	.250	3	.76	2.5
MTECB-0312C09-1.5ISO	1.50	M10	=>47	.312	.307	3	.98	2.5
MTECB-0625E19-2.5ISO	2.50	M20	=>22	.625	.591	5	1.92	4.0
MTECB-0750D15-3.0ISO	3.00	M24	=>25	.750	.709	4	1.59	4.0

MTECS-ISO Small Diameter Solid Carbide Threading Endmills for Internal ISO Profile





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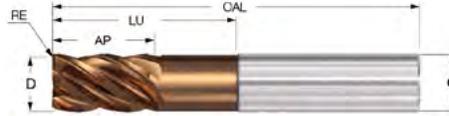
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4-FLUTE



For Weld on shanks
replace the 'C' in the
Part # with a 'W'
(3/8" & above)

- Each item is also available with a Weld on Shank. Simply substitute a **W** in place of the **C** in the Part#.
(Example - ECI-4-375-1.0C03VF2.5 = Cylindrical type; ECI-4-375-1.0W03VF2.5 = Weld on type)

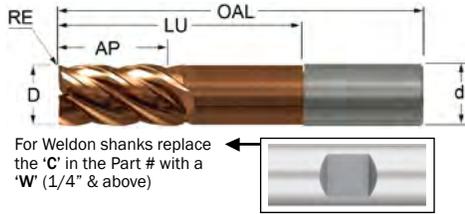
PART#	D	AP	LU	RE	d	OAL
ECI-4-125-500C0VF1.5	.125	.500	.500	.0000	.125	1.50
ECI-4-125-500C015VF1.5	.125	.500	.500	.0150	.125	1.50
ECI-4-125-500C030VF1.5	.125	.500	.500	.0300	.125	1.50
ECI-4-187-625C0VF2	.188	.625	.625	.0000	.188	2.00
ECI-4-187-625C015VF2	.188	.625	.625	.0150	.188	2.00
ECI-4-187-625C030VF2	.188	.625	.625	.0300	.188	2.00
ECI-4-250-375C0VF2	.250	.375	.375	.0000	.250	2.00
ECI-4-250-375C015VF2	.250	.375	.375	.0150	.250	2.00
ECI-4-250-375C030VF2	.250	.375	.375	.0300	.250	2.00
ECI-4-250-375C06VF2	.250	.375	.375	.0600	.250	2.00
ECI-4-250-500-1.25C0VF3	.250	.500	1.25	.0000	.250	3.00
ECI-4-250-500-1.25C015VF3	.250	.500	1.25	.0150	.250	3.00
ECI-4-250-500-1.25C030VF3	.250	.500	1.25	.0300	.250	3.00
ECI-4-250-500-1.25C06VF3	.250	.500	1.25	.0600	.250	3.00
ECI-4-250-500-2.12C0VF4	.250	.500	2.125	.0000	.250	4.00
ECI-4-250-500-2.12C015VF4	.250	.500	2.125	.0150	.250	4.00
ECI-4-250-500-2.12C030VF4	.250	.500	2.125	.0300	.250	4.00
ECI-4-250-500-2.12C06VF4	.250	.500	2.125	.0600	.250	4.00
ECI-4-250-750C0VF2.5	.250	.750	.750	.0000	.250	2.50
ECI-4-250-750C015VF2.5	.250	.750	.750	.0150	.250	2.50
ECI-4-250-750C030VF2.5	.250	.750	.750	.0300	.250	2.50
ECI-4-250-750C06VF2.5	.250	.750	.750	.0600	.250	2.50
ECI-4-250-1.0C0VF3	.250	1.000	1.000	.0000	.250	3.00
ECI-4-250-1.0C015VF3	.250	1.000	1.000	.0150	.250	3.00
ECI-4-250-1.0C030VF3	.250	1.000	1.000	.0300	.250	3.00
ECI-4-250-1.0C06VF3	.250	1.000	1.000	.0600	.250	3.00
ECI-4-250-1.25C0VF4	.250	1.250	1.250	.0000	.250	4.00
ECI-4-250-1.25C015VF4	.250	1.250	1.250	.0150	.250	4.00
ECI-4-250-1.25C030VF4	.250	1.250	1.250	.0300	.250	4.00
ECI-4-250-1.25C06VF4	.250	1.250	1.250	.0600	.250	4.00
ECI-4-250-1.75C0VF4	.250	1.750	1.750	.0000	.250	4.00
ECI-4-250-1.75C015VF4	.250	1.750	1.750	.0150	.250	4.00
ECI-4-250-1.75C030VF4	.250	1.750	1.750	.0300	.250	4.00
ECI-4-250-1.75C06VF4	.250	1.750	1.750	.0600	.250	4.00
ECI-4-312-500C015VF2	.313	.500	.500	.0150	.313	2.00
ECI-4-312-500C030VF2	.313	.500	.500	.0300	.313	2.00
ECI-4-312-500C06VF2	.313	.500	.500	.0600	.313	2.00
ECI-4-312-500C0VF2	.313	.500	.500	.1562	.313	2.00
ECI-4-312-875C015VF2.5	.313	.875	.875	.0150	.313	2.50
ECI-4-312-875C030VF2.5	.313	.875	.875	.0300	.313	2.50
ECI-4-312-875C06VF2.5	.313	.875	.875	.0600	.313	2.50
ECI-4-312-875C0VF2.5	.313	.875	.875	.1562	.313	2.50
ECI-4-312-1.0C015VF3	.313	1.000	1.000	.0150	.313	3.00
ECI-4-312-1.0C030VF3	.313	1.000	1.000	.0300	.313	3.00
ECI-4-312-1.0C06VF3	.313	1.000	1.000	.0600	.313	3.00
ECI-4-312-1.0C0VF3	.313	1.000	1.000	.1562	.313	3.00
ECI-4-312-1.25C015VF4	.313	1.250	1.250	.0150	.313	4.00
ECI-4-312-1.25C030VF4	.313	1.250	1.250	.0300	.313	4.00
ECI-4-312-1.25C06VF4	.313	1.250	1.250	.0600	.313	4.00
ECI-4-312-1.25C0VF4	.313	1.250	1.250	.1562	.313	4.00
ECI-4-312-1.625C015VF4	.313	1.625	1.625	.0150	.313	4.00
ECI-4-312-1.625C030VF4	.313	1.625	1.625	.0300	.313	4.00
ECI-4-312-1.625C06VF4	.313	1.625	1.625	.0600	.313	4.00
ECI-4-312-1.625C0VF4	.313	1.625	1.625	.1562	.313	4.00
ECI-4-375-500C0VF2	.375	.500	.500	.0000	.375	2.00
ECI-4-375-500C015VF2	.375	.500	.500	.0150	.375	2.00
ECI-4-375-500C030VF2	.375	.500	.500	.0300	.375	2.00
ECI-4-375-500C06VF2	.375	.500	.500	.0600	.375	2.00
ECI-4-375-750-1.25C0VF3	.375	.750	1.250	.0000	.375	3.00
ECI-4-375-750-1.25C015VF3	.375	.750	1.250	.0150	.375	3.00
ECI-4-375-750-1.25C030VF3	.375	.750	1.250	.0300	.375	3.00
ECI-4-375-750-1.25C06VF3	.375	.750	1.250	.0600	.375	3.00
ECI-4-375-750-2.12C0VF4	.375	.750	2.125	.0000	.375	4.00
ECI-4-375-750-2.12C015VF4	.375	.750	2.125	.0150	.375	4.00
ECI-4-375-750-2.12C030VF4	.375	.750	2.125	.0300	.375	4.00
ECI-4-375-750-2.12C06VF4	.375	.750	2.125	.0600	.375	4.00
ECI-4-375-1.0C0VF2.5	.375	1.000	1.000	.0000	.375	2.50
ECI-4-375-1.0C015VF2.5	.375	1.000	1.000	.0150	.375	2.50
ECI-4-375-1.0C030VF2.5	.375	1.000	1.000	.0300	.375	2.50
ECI-4-375-1.0C06VF2.5	.375	1.000	1.000	.0600	.375	2.50
ECI-4-375-1.5C0VF4	.375	1.500	1.500	.0000	.375	4.00
ECI-4-375-1.5C015VF4	.375	1.500	1.500	.0150	.375	4.00
ECI-4-375-1.5C030VF4	.375	1.500	1.500	.0300	.375	4.00
ECI-4-375-1.5C06VF4	.375	1.500	1.500	.0600	.375	4.00
ECI-4-375-2.0C0VF5	.375	2.500	2.500	.0000	.375	5.00
ECI-4-375-2.0C015VF5	.375	2.500	2.500	.0150	.375	5.00
ECI-4-375-2.0C030VF5	.375	2.500	2.500	.0300	.375	5.00
ECI-4-375-2.0C06VF5	.375	2.500	2.500	.0600	.375	5.00
ECI-4-437-625C0VF2.75	.437	.625	.625	.0000	.437	2.750
ECI-4-437-625C015VF2.75	.437	.625	.625	.0150	.437	2.750
ECI-4-437-625C030VF2.75	.437	.625	.625	.0300	.437	2.750
ECI-4-437-625C06VF2.75	.437	.625	.625	.0600	.437	2.750
ECI-4-437-1.0C0VF2.75	.437	1.000	1.000	.0000	.437	2.750
ECI-4-437-1.0C015VF2.75	.437	1.000	1.000	.0150	.437	2.750
ECI-4-437-1.0C030VF2.75	.437	1.000	1.000	.0300	.437	2.750
ECI-4-437-1.0C06VF2.75	.437	1.000	1.000	.0600	.437	2.750
ECI-4-437-1.5C0VF4	.437	1.500	1.500	.0000	.437	4.00
ECI-4-437-1.5C015VF4	.437	1.500	1.500	.0150	.437	4.00
ECI-4-437-1.5C030VF4	.437	1.500	1.500	.0300	.437	4.00
ECI-4-437-1.5C06VF4	.437	1.500	1.500	.0600	.437	4.00
ECI-4-437-3.0C0VF6	.437	3.000	3.000	.0000	.437	6.00
ECI-4-437-3.0C015VF6	.437	3.000	3.000	.0150	.437	6.00
ECI-4-437-3.0C030VF6	.437	3.000	3.000	.0300	.437	6.00
ECI-4-437-3.0C06VF6	.437	3.000	3.000	.0600	.437	6.00
ECI-4-500-625C0VF2.5	.500	.625	.625	.0000	.500	2.50
ECI-4-500-625C015VF2.5	.500	.625	.625	.0150	.500	2.50
ECI-4-500-625C030VF2.5	.500	.625	.625	.0300	.500	2.50
ECI-4-500-625C06VF2.5	.500	.625	.625	.0600	.500	2.50
ECI-4-500-625C09VF2.5	.500	.625	.625	.0900	.500	2.50
ECI-4-500-625C12VF2.5	.500	.625	.625	.1250	.500	2.50
ECI-4-500-875-1.37C0VF3	.500	.875	1.375	.0000	.500	3.00
ECI-4-500-875-1.37C015VF3	.500	.875	1.375	.0150	.500	3.00
ECI-4-500-875-1.37C030VF3	.500	.875	1.375	.0300	.500	3.00
ECI-4-500-875-1.37C06VF3	.500	.875	1.375	.0600	.500	3.00
ECI-4-500-875-1.37C09VF3	.500	.875	1.375	.0900	.500	3.00

PART#	D	AP	LU	RE	d	OAL
ECI-4-500-875-1.37C12VF3	.500	.875	1.375	.1250	.500	3.00
ECI-4-500-875-2.12C0VF4	.500	.875	2.125	.0000	.500	4.00
ECI-4-500-875-2.12C015VF4	.500	.875	2.125	.0150	.500	4.00
ECI-4-500-875-2.12C030VF4	.500	.875	2.125	.0300	.500	4.00
ECI-4-500-875-2.12C06VF4	.500	.875	2.125	.0600	.500	4.00
ECI-4-500-875-2.12C09VF4	.500	.875	2.125	.0900	.500	4.00
ECI-4-500-875-2.12C12VF4	.500	.875	2.125	.1250	.500	4.00
ECI-4-500-875-4.12C0VF6	.500	.875	4.125	.0000	.500	6.00
ECI-4-500-875-4.12C015VF6	.500	.875	4.125	.0150	.500	6.00
ECI-4-500-875-4.12C030VF6	.500	.875	4.125	.0300	.500	6.00
ECI-4-500-875-4.12C06VF6	.500	.875	4.125	.0600	.500	6.00
ECI-4-500-875-4.12C09VF6	.500	.875	4.125	.0900	.500	6.00
ECI-4-500-875-4.12C12VF6	.500	.875	4.125	.1250	.500	6.00
ECI-4-500-1.0C0VF3	.500	1.000	1.000	.0000	.500	3.00
ECI-4-500-1.0C015VF3	.500	1.000	1.000	.0150	.500	3.00
ECI-4-500-1.0C030VF3	.500	1.000	1.000	.0300	.500	3.00
ECI-4-500-1.0C06VF3	.500	1.000	1.000	.0600	.500	3.00
ECI-4-500-1.0C09VF3	.500	1.000	1.000	.0900	.500	3.00
ECI-4-500-1.0C12VF3	.500	1.000	1.000	.1250	.500	3.00
ECI-4-500-1.25C0VF4	.500	1.250	1.250	.0000	.500	4.00
ECI-4-500-1.25C015VF4	.500	1.250	1.250	.0150	.500	4.00
ECI-4-500-1.25C030VF4	.500	1.250	1.250	.0300	.500	4.00
ECI-4-500-1.25C06VF4	.500	1.250	1.250	.0600	.500	4.00
ECI-4-500-1.25C09VF4	.500	1.250	1.250	.0900	.500	4.00
ECI-4-500-1.25C12VF4	.500	1.250	1.250	.1250	.500	4.00
ECI-4-500-1.5C0VF4	.500	1.500	1.500	.0000	.500	4.00
ECI-4-500-1.5C015VF4	.500	1.500	1.500	.0150	.500	4.00
ECI-4-500-1.5C030VF4	.500	1.500	1.500	.0300	.500	4.00
ECI-4-500-1.5C06VF4	.500	1.500	1.500	.0600	.500	4.00
ECI-4-500-1.5C09VF4	.500	1.500	1.500	.0900	.500	4.00
ECI-4-500-1.5C12VF4	.500	1.500	1.500	.1250	.500	4.00
ECI-4-500-2.0C0VF5	.500	2.000	2.000	.0000	.500	5.00
ECI-4-500-2.0C015VF5	.500	2.000	2.000	.0150	.500	5.00
ECI-4-500-2.0C030VF5	.500					



FLASHSOLID SOLID CARBIDE ENDMILLS

5-FLUTE

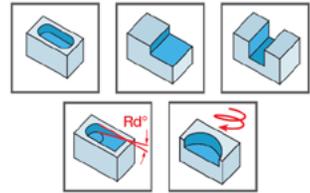


For Weldon shanks replace the 'C' in the Part # with a 'W' (1/4" & above)



Example - ECI-5-5-2.5C.03VF5. = Cylindrical shank
ECI-5-5-2.5W.03VF5. = Weldon shank

- VARIABLE PITCH
- CHATTER FREE
- TiAlN COATED
- WITH OR WITHOUT CORNER RADIUS
- WITH OR WITHOUT RELIEVED NECK



PART#	D	AP	LU	RE	d	OAL
ECI-5-25-5C0VF2.	.250	.500	.500	.000	.250	2.0
ECI-5-25-5C.015VF2.	.250	.500	.500	.015	.250	2.0
ECI-5-25-5C.03VF2.	.250	.500	.500	.030	.250	2.0
ECI-5-25-5C.06VF2.	.250	.500	.500	.060	.250	2.0
ECI-5-25-5/2.13CVF4.	.250	.500	2.125	.000	.250	4.0
ECI-5-25-5/2.1C.015VF4.	.250	.500	2.125	.015	.250	4.0
ECI-5-25-5/2.13C.03VF4.	.250	.500	2.125	.030	.250	4.0
ECI-5-25-5/2.13C.06VF4.	.250	.500	2.125	.060	.250	4.0
ECI-5-25-75C.03VF2.5	.250	.750	.750	.000	.250	2.5
ECI-5-25-75C.015VF2.5	.250	.750	.750	.015	.250	2.5
ECI-5-25-75C.03VF2.5	.250	.750	.750	.030	.250	2.5
ECI-5-25-75C.06VF2.5	.250	.750	.750	.060	.250	2.5
ECI-5-25-1.0CVF3.	.250	1.000	1.000	.000	.250	3.0
ECI-5-25-1.0C.015VF3.	.250	1.000	1.000	.015	.250	3.0
ECI-5-25-1.0C.03VF3.	.250	1.000	1.000	.030	.250	3.0
ECI-5-375-5C0VF2.	.375	.500	.500	.000	.375	2.0
ECI-5-375-5C.015VF2.	.375	.500	.500	.015	.375	2.0
ECI-5-375-5C.03VF2.	.375	.500	.500	.030	.375	2.0
ECI-5-375-5C.06VF2.	.375	.500	.500	.060	.375	2.0
ECI-5-375-5C.125VF2.	.375	.500	.500	.125	.375	2.0
ECI-5-375-75/2.13CVF4.	.375	.750	2.125	.000	.375	4.0
ECI-5-375-75/2.1C.015VF4.	.375	.750	2.125	.015	.375	4.0
ECI-5-375-75/2.13C.03VF4.	.375	.750	2.125	.030	.375	4.0
ECI-5-375-75/2.13C.06VF4.	.375	.750	2.125	.060	.375	4.0
ECI-5-375-1.0CVF2.5	.375	1.000	1.000	.000	.375	2.5
ECI-5-375-1.0C.015VF3.	.375	1.000	1.000	.015	.375	2.5
ECI-5-375-1.0C.03VF2.5	.375	1.000	1.000	.030	.375	2.5
ECI-5-375-1.0C.06VF2.5	.375	1.000	1.000	.060	.375	2.5
ECI-5-375-1.0C.125VF2.5	.375	1.000	1.000	.125	.375	2.5
ECI-5-375-1.5C0VF4.	.375	1.500	1.500	.000	.375	4.0
ECI-5-375-1.5C.015VF4.	.375	1.500	1.500	.015	.375	4.0
ECI-5-375-1.5C.03VF4.	.375	1.500	1.500	.030	.375	4.0
ECI-5-375-1.5C.06VF4.	.375	1.500	1.500	.060	.375	4.0
ECI-5-375-1.5C.125VF4.	.375	1.500	1.500	.125	.375	4.0
ECI-5-5-63C0VF2.5	.500	.625	.625	.000	.500	2.5
ECI-5-5-63C.015VF2.5	.500	.625	.625	.015	.500	2.5
ECI-5-5-63C.03VF2.5	.500	.625	.625	.030	.500	2.5
ECI-5-5-63C.06VF2.5	.500	.625	.625	.060	.500	2.5
ECI-5-5-63C.125VF2.5	.500	.625	.625	.125	.500	2.5
ECI-5-5-88/1.38CVF3.	.500	.875	1.375	.000	.500	3.0
ECI-5-5-88/1.4C.015VF3.	.500	.875	1.375	.015	.500	3.0
ECI-5-5-88/1.38C.03VF3.	.500	.875	1.375	.030	.500	3.0
ECI-5-5-88/1.38C.06VF3.	.500	.875	1.375	.060	.500	3.0
ECI-5-5-88/1.38C.09VF3.	.500	.875	1.375	.090	.500	3.0
ECI-5-5-88/1.4C.125VF3.	.500	.875	1.375	.125	.500	3.0
ECI-5-5-88/2.13CVF4.	.500	.875	2.125	.000	.500	4.0
ECI-5-5-88/2.1C.015VF4.	.500	.875	2.125	.015	.500	4.0
ECI-5-5-88/2.13C.03VF4.	.500	.875	2.125	.030	.500	4.0
ECI-5-5-88/2.13C.06VF4.	.500	.875	2.125	.060	.500	4.0
ECI-5-5-88/2.13C.09VF4.	.500	.875	2.125	.090	.500	4.0
ECI-5-5-88/2.1C.125VF4.	.500	.875	2.125	.125	.500	4.0
ECI-5-5-88/3.13CVF5.	.500	.875	3.125	.000	.500	5.0
ECI-5-5-88/3.1C.015VF5.	.500	.875	3.125	.015	.500	5.0
ECI-5-5-88/3.13C.06VF5.	.500	.875	3.125	.060	.500	5.0
ECI-5-5-88/3.13C.09VF5.	.500	.875	3.125	.090	.500	5.0
ECI-5-5-88/3.1C.125VF5.	.500	.875	3.125	.125	.500	5.0
ECI-5-5-88/4.13CVF6.	.500	.875	4.125	.000	.500	6.0
ECI-5-5-88/4.1C.015VF6.	.500	.875	4.125	.015	.500	6.0
ECI-5-5-88/4.13C.03VF6.	.500	.875	4.125	.030	.500	6.0
ECI-5-5-88/4.13C.06VF6.	.500	.875	4.125	.060	.500	6.0
ECI-5-5-88/4.13C.09VF6.	.500	.875	4.125	.090	.500	6.0
ECI-5-5-88/4.1C.125VF6.	.500	.875	4.125	.125	.500	6.0
ECI-5-5-1.25C0VF3.	.500	1.250	1.250	.000	.500	3.0
ECI-5-5-1.25C.015VF3.	.500	1.250	1.250	.015	.500	3.0
ECI-5-5-1.25C.03VF3.	.500	1.250	1.250	.030	.500	3.0
ECI-5-5-1.25C.06VF3.	.500	1.250	1.250	.060	.500	3.0
ECI-5-5-1.25C.125VF3.	.500	1.250	1.250	.125	.500	3.0
ECI-5-5-1.63C0VF4.	.500	1.625	1.625	.000	.500	4.0
ECI-5-5-1.63C.015VF4.	.500	1.625	1.625	.015	.500	4.0
ECI-5-5-1.63C.03VF4.	.500	1.625	1.625	.030	.500	4.0
ECI-5-5-1.63C.06VF4.	.500	1.625	1.625	.060	.500	4.0
ECI-5-5-1.63C.09VF4.	.500	1.625	1.625	.090	.500	4.0
ECI-5-5-1.63C.125VF4.	.500	1.625	1.625	.125	.500	4.0
ECI-5-5-2.0CVF4.	.500	2.000	2.000	.000	.500	4.0
ECI-5-5-2.0C.015VF4.	.500	2.000	2.000	.015	.500	4.0

PART#	D	AP	LU	RE	d	OAL
ECI-5-5-2.0C.03VF4.	.500	2.000	2.000	.030	.500	4.0
ECI-5-5-2.0C.06VF4.	.500	2.000	2.000	.060	.500	4.0
ECI-5-5-2.0C.09VF4.	.500	2.000	2.000	.090	.500	4.0
ECI-5-5-2.0C.125VF4.	.500	2.000	2.000	.125	.500	4.0
ECI-5-5-2.5C0VF5.	.500	2.500	2.500	.000	.500	5.0
ECI-5-5-2.5C.015VF5.	.500	2.500	2.500	.015	.500	5.0
ECI-5-5-2.5C.03VF5.	.500	2.500	2.500	.030	.500	5.0
ECI-5-5-2.5C.06VF5.	.500	2.500	2.500	.060	.500	5.0
ECI-5-5-2.5C.09VF5.	.500	2.500	2.500	.090	.500	5.0
ECI-5-5-2.5C.125VF5.	.500	2.500	2.500	.125	.500	5.0
ECI-5-5-3.13C0VF6.	.500	3.125	3.125	.000	.500	6.0
ECI-5-5-3.13C.015VF6.	.500	3.125	3.125	.015	.500	6.0
ECI-5-5-3.13C.03VF6.	.500	3.125	3.125	.030	.500	6.0
ECI-5-5-3.13C.06VF6.	.500	3.125	3.125	.060	.500	6.0
ECI-5-5-3.13C.09VF6.	.500	3.125	3.125	.090	.500	6.0
ECI-5-5-3.13C.125VF6.	.500	3.125	3.125	.125	.500	6.0
ECI-5-625-75C0VF3.	.625	.750	.750	.000	.625	3.0
ECI-5-625-75C.015VF3.	.625	.750	.750	.015	.625	3.0
ECI-5-625-75C.03VF3.	.625	.750	.750	.030	.625	3.0
ECI-5-625-75C.06VF3.	.625	.750	.750	.060	.625	3.0
ECI-5-625-75C.09VF3.	.625	.750	.750	.090	.625	3.0
ECI-5-625-75C.125VF3.	.625	.750	.750	.125	.625	3.0
ECI-5-625-1.2C.015VF4.	.625	1.000	2.000	.015	.625	4.0
ECI-5-625-1.2C.03VF4.	.625	1.000	2.000	.030	.625	4.0
ECI-5-625-1.2C.06VF4.	.625	1.000	2.000	.060	.625	4.0
ECI-5-625-1.2C.09VF4.	.625	1.000	2.000	.090	.625	4.0
ECI-5-625-1.2C.125VF4.	.625	1.000	2.000	.125	.625	4.0
ECI-5-625-1.3C.015VF5.	.625	1.000	3.000	.015	.625	5.0
ECI-5-625-1.3C.03VF5.	.625	1.000	3.000	.030	.625	5.0
ECI-5-625-1.3C.06VF5.	.625	1.000	3.000	.060	.625	5.0
ECI-5-625-1.3C.09VF5.	.625	1.000	3.000	.090	.625	5.0
ECI-5-625-1.3C.125VF5.	.625	1.000	3.000	.125	.625	5.0
ECI-5-625-1.4C.015VF6.	.625	1.000	4.000	.015	.625	6.0
ECI-5-625-1.4C.03VF6.	.625	1.000	4.000	.030	.625	6.0
ECI-5-625-1.4C.06VF6.	.625	1.000	4.000	.060	.625	6.0
ECI-5-625-1.4C.09VF6.	.625	1.000	4.000	.090	.625	6.0
ECI-5-625-1.4C.125VF6.	.625	1.000	4.000	.125	.625	6.0
ECI-5-625-1.63C0VF3.5	.625	1.625	1.625	.000	.625	3.5
ECI-5-625-1.63C.015VF3.5	.625	1.625	1.625	.015	.625	3.5
ECI-5-625-1.63C.03VF3.5	.625	1.625	1.625	.030	.625	3.5
ECI-5-625-1.63C.06VF3.5	.625	1.625	1.625	.060	.625	3.5
ECI-5-625-1.63C.09VF3.5	.625	1.625	1.625	.090	.625	3.5
ECI-5-625-1.63C.125VF3.5	.625	1.625	1.625	.125	.625	3.5
ECI-5-625-2.5C0VF5.	.625	2.500	2.500	.000	.625	5.0
ECI-5-625-2.5C.015VF5.	.625	2.500	2.500	.015	.625	5.0
ECI-5-625-2.5C.03VF5.	.625	2.500	2.500	.030	.625	5.0
ECI-5-625-2.5C.06VF5.	.625	2.500	2.500	.060	.625	5.0
ECI-5-625-2.5C.09VF5.	.625	2.500	2.500	.090	.625	5.0
ECI-5-625-2.5C.125VF5.	.625	2.500	2.500	.125	.625	5.0
ECI-5-625-3.0CVF6.	.625	3.000	3.000	.000	.625	6.0
ECI-5-625-3.0C.015VF6.	.625	3.000	3.000	.015	.625	6.0
ECI-5-625-3.0C.03VF6.	.625	3.000	3.000	.030	.625	6.0
ECI-5-625-3.0C.06VF6.	.625	3.000	3.000	.060	.625	6.0
ECI-5-625-3.0C.09VF6.	.625	3.000	3.000	.090	.625	6.0
ECI-5-625-3.0C.125VF6.	.625	3.000	3.000	.125	.625	6.0
ECI-5-75-1.0CVF3.	.750	1.000	1.000	.000	.750	3.0
ECI-5-75-1.0C.015VF3.5	.750	1.000	1.000	.015	.750	3.0
ECI-5-75-1.0C.03VF3.	.750	1.000	1.000	.030	.750	3.0
ECI-5-75-1.0C.06VF3.	.750	1.000	1.000	.060	.750	3.0
ECI-5-75-1.0C.09VF3.	.750	1.000	1.000	.090	.750	3.0
ECI-5-75-1.0C.125VF3.5	.750	1.000	1.000	.125	.750	3.0
ECI-5-75-1.25/2.0CVF4.	.750	1.250	2.000	.000	.750	4.0
ECI-5-75-1.25/2.0C.015VF4.	.750	1.250	2.000	.015	.750	4.0
ECI-5-75-1.25/2.0C.03VF4.	.750	1.250	2.000	.030	.750	4.0
ECI-5-75-1.25/2.0C.06VF4.	.750	1.250	2.000	.060	.750	4.0
ECI-5-75-1.25/2.0C.09VF4.	.750	1.250	2.000	.090	.750	4.0
ECI-5-75-1.25/2.0C.125VF4.	.750	1.250	2.000	.125	.750	4.0
ECI-5-75-1.25/3.0CVF5.	.750	1.250	3.000			

Toll Free
800-442-0042

Fax
(713) 681-4931

Email
sales@basstool.com

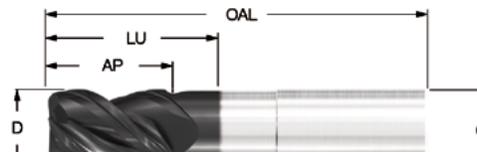
Houston
(713) 682-1889

Bass Tool & Supply, Inc.
www.basstool.com



FLASHSOLID SOLID CARBIDE ENDMILLS

3-FLUTE



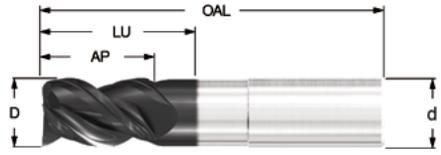
PART#	D	AP	LU	RE	d	OAL
ECAI-B3-125-3CR01-5EC	.125	2500	2500	.0000	.125	1.500
ECAI-B3-125-3CR015-1.5	.125	2500	2500	.0150	.125	1.500
ECAI-B3-125-5CR01-5EC	.125	5000	5000	.0000	.125	1.500
ECAI-B3-125-5CR015-1.5	.125	5000	5000	.0150	.125	1.500
ECAI-B3-187-3CR02-EC	.187	3150	3200	.0000	.187	2.000
ECAI-B3-187-3CR015-2EC	.187	3150	3200	.0150	.187	2.000
ECAI-B3-187-6CR02-EC	.187	5620	5700	.0000	.187	2.000
ECAI-B3-187-6CR015-2EC	.187	5620	5700	.0150	.187	2.000
ECAI-B3-25-3CR02-EC	.250	3750	3750	.0000	.250	2.000
ECAI-B3-25-4CR015-2EC	.250	3750	3750	.0150	.250	2.000
ECAI-B3-25-4CR03-2EC	.250	3750	3750	.0300	.250	2.000
ECAI-B3-25-5/1.2CR0-3EC	.250	5000	12500	.0000	.250	3.000
ECAI-B3-25-5/1.3CR15-3	.250	5000	12500	.0150	.250	3.000
ECAI-B3-25-5/1.3CR03-3	.250	5000	12500	.0300	.250	3.000
ECAI-B3-25-5/1.3CR06-3	.250	5000	12500	.0600	.250	3.000
ECAI-B3-25-5/2.1CR0-4EC	.250	5000	21250	.0000	.250	4.000
ECAI-B3-25-5/2.1CR15-4EC	.250	5000	21250	.0150	.250	4.000
ECAI-B3-25-5/2.1CR03-4EC	.250	5000	21250	.0300	.250	4.000
ECAI-B3-25-5/2.1CR06-4EC	.250	5000	21250	.0600	.250	4.000
ECAI-B3-25-75CR0-2.5EC	.250	7500	7500	.0000	.250	2.500
ECAI-B3-25-8CR015-2.5EC	.250	7500	7500	.0150	.250	2.500
ECAI-B3-25-8CR03-2.5EC	.250	7500	7500	.0300	.250	2.500
ECAI-B3-25-1CR0-3EC	.250	10000	10000	.0000	.250	3.000
ECAI-B3-25-1CR015-3.EC	.250	10000	10000	.0150	.250	3.000
ECAI-B3-25-1CR03-3.EC	.250	10000	10000	.0300	.250	3.000
ECAI-B3-25-1.25CR0-4EC	.250	12500	12500	.0000	.250	4.000
ECAI-B3-25-1.3CR015-4EC	.250	12500	12500	.0150	.250	4.000
ECAI-B3-25-1.3CR03-4EC	.250	12500	12500	.0300	.250	4.000
ECAI-B3-312-5CR0-2EC	.312	5000	5000	.0000	.312	2.000
ECAI-B3-312-5CR015-2EC	.312	5000	5000	.0150	.312	2.000
ECAI-B3-312-5CR03-2EC	.312	5000	5000	.0300	.312	2.000
ECAI-B3-312-9CR015-2.5	.312	8750	8750	.0000	.312	2.500
ECAI-B3-312-9CR03-2.5	.312	8750	8750	.0300	.312	2.500
ECAI-B3-312-1CR0-3EC	.312	10000	10000	.0000	.312	3.000
ECAI-B3-312-1CR015-3EC	.312	10000	10000	.0150	.312	3.000
ECAI-B3-312-1CR03-3EC	.312	10000	10000	.0300	.312	3.000
ECAI-B3-312-1.3CR0-4EC	.312	12500	12500	.0000	.312	4.000
ECAI-B3-312-1.3CR015-4EC	.312	12500	12500	.0150	.312	4.000
ECAI-B3-312-1.3CR03-4EC	.312	12500	12500	.0300	.312	4.000
ECAI-B3-375-5CR0-2EC	.375	5000	5000	.0000	.375	2.000
ECAI-B3-375-5CR015-2EC	.375	5000	5000	.0150	.375	2.000
ECAI-B3-375-5CR03-2EC	.375	5000	5000	.0300	.375	2.000
ECAI-B3-375-5CR06-2EC	.375	5000	5000	.0600	.375	2.000
ECAI-B3-375-5CR875-2EC	.375	5000	5000	.8750	.375	2.000
ECAI-B3-375-5CR09-2EC	.375	5000	5000	.0900	.375	2.000
ECAI-B3-375-5CR125-2EC	.375	5000	5000	.1250	.375	2.000
ECAI-B3-375-8/1.2C-3EC	.375	7500	12500	.0000	.375	3.000
ECAI-B3-375-8/1.3CR15-3	.375	7500	12500	.0150	.375	3.000
ECAI-B3-375-8/1.3CR03-3	.375	7500	12500	.0300	.375	3.000
ECAI-B3-375-8/1.3CR06-3	.375	7500	12500	.0600	.375	3.000
ECAI-B3-375-8/1.3CR09-3	.375	7500	12500	.0900	.375	3.000
ECAI-B3-375-8/1.3CR12-3	.375	7500	12500	.1200	.375	3.000
ECAI-B3-375-8/1.3-3EC	.375	7500	12500	.1800	.375	3.000
ECAI-B3-375-8/2.1C-4EC	.375	7500	21250	.0000	.375	4.000
ECAI-B3-375-8/2.1CR15-4	.375	7500	21250	.0150	.375	4.000
ECAI-B3-375-8/2.1CR03-4	.375	7500	21250	.0300	.375	4.000
ECAI-B3-375-8/2.1CR06-4	.375	7500	21250	.0600	.375	4.000
ECAI-B3-375-8/2.1CR09-4	.375	7500	21250	.0900	.375	4.000
ECAI-B3-375-8/2.1CR12-4	.375	7500	21250	.1200	.375	4.000
ECAI-B3-375-8/2.1CR18-4	.375	7500	21250	.1800	.375	4.000
ECAI-B3-375-1CR0-2.5EC	.375	10000	10000	.0000	.375	2.500
ECAI-B3-375-1CR015-2.5EC	.375	10000	10000	.0150	.375	2.500
ECAI-B3-375-1CR03-2.5EC	.375	10000	10000	.0300	.375	2.500
ECAI-B3-375-1CR06-2.5EC	.375	10000	10000	.0600	.375	2.500
ECAI-B3-375-1CR09-2.5EC	.375	10000	10000	.0900	.375	2.500
ECAI-B3-375-1CR125-2.5EC	.375	10000	10000	.1250	.375	2.500
ECAI-B3-375-1CR875-2.5EC	.375	10000	10000	.8750	.375	2.500
ECAI-B3-375-1CR0-3EC	.375	10000	10000	.0000	.375	3.000
ECAI-B3-375-1CR015-3EC	.375	10000	10000	.0150	.375	3.000
ECAI-B3-375-1CR03-3EC	.375	10000	10000	.0300	.375	3.000
ECAI-B3-375-1CR06-3EC	.375	10000	10000	.0600	.375	3.000
ECAI-B3-375-1CR09-3EC	.375	10000	10000	.0900	.375	3.000
ECAI-B3-375-1CR125-3EC	.375	10000	10000	.1250	.375	3.000
ECAI-B3-375-1CR875-3EC	.375	10000	10000	.8750	.375	3.000
ECAI-B3-375-1.5CR015-4EC	.375	15000	15000	.0150	.375	4.000
ECAI-B3-375-1.5CR03-4EC	.375	15000	15000	.0300	.375	4.000
ECAI-B3-375-1.5CR06-4EC	.375	15000	15000	.0600	.375	4.000
ECAI-B3-375-1.5CR09-4EC	.375	15000	15000	.0900	.375	4.000
ECAI-B3-375-1.5CR125-4EC	.375	15000	15000	.1250	.375	4.000
ECAI-B3-375-1.5C-4EC	.375	15000	15000	.1875	.375	4.000
ECAI-B3-375-1CR0-2.75EC	.437	10000	10000	.0000	.437	2.750
ECAI-B3-375-1CR015-2.8EC	.437	10000	10000	.0150	.437	2.750
ECAI-B3-375-1CR03-2.8EC	.437	10000	10000	.0300	.437	2.750
ECAI-B3-375-1CR06-2.8EC	.437	10000	10000	.0600	.437	2.750
ECAI-B3-375-1CR09-2.8EC	.437	10000	10000	.0900	.437	2.750
ECAI-B3-375-1CR125-2.8EC	.437	10000	10000	.1250	.437	2.750
ECAI-B3-375-1.5CR0-4EC	.437	15000	15000	.0000	.437	4.000
ECAI-B3-375-1.5CR03-4EC	.437	15000	15000	.0300	.437	4.000
ECAI-B3-375-1.5CR06-4EC	.437	15000	15000	.0600	.437	4.000
ECAI-B3-375-1.5CR09-4EC	.437	15000	15000	.0900	.437	4.000
ECAI-B3-375-1.5CR125-4EC	.437	15000	15000	.1250	.437	4.000
ECAI-B3-437-2CR0-4EC	.437	20000	20000	.0000	.437	4.000
ECAI-B3-437-2CR03-4EC	.437	20000	20000	.0300	.437	4.000
ECAI-B3-437-2CR06-4EC	.437	20000	20000	.0600	.437	4.000
ECAI-B3-437-2CR09-4EC	.437	20000	20000	.0900	.437	4.000
ECAI-B3-437-2CR125-4EC	.437	20000	20000	.1250	.437	4.000
ECAI-B3-5-6CR0-2.5EC	.500	6250	6250	.0000	.500	2.500
ECAI-B3-5-6CR015-2.5EC	.500	6250	6250	.0150	.500	2.500
ECAI-B3-5-6CR03-2.5EC	.500	6250	6250	.0300	.500	2.500
ECAI-B3-5-6CR06-2.5EC	.500	6250	6250	.0600	.500	2.500
ECAI-B3-5-6CR09-2.5EC	.500	6250	6250	.0900	.500	2.500
ECAI-B3-5-6CR125-2.5EC	.500	6250	6250	.1250	.500	2.500
ECAI-B3-5-9/1.4CR03-3EC	.500	8750	13750	.0000	.500	3.000
ECAI-B3-5-9/1.4CR015-3	.500	8750	13750	.0150	.500	3.000

PART#	D	AP	LU	RE	d	OAL
ECAI-B3-5-9/1.4CR03-3EC	.500	8750	13750	.0300	.500	3.000
ECAI-B3-5-9/1.4CR06-3EC	.500	8750	13750	.0600	.500	3.000
ECAI-B3-5-9/1.4CR09-3EC	.500	8750	13750	.0900	.500	3.000
ECAI-B3-5-9/1.4CR12-3EC	.500	8750	13750	.1250	.500	3.000
ECAI-B3-5-0.8/1.2CR0-4EC	.500	8750	21250	.0000	.500	4.000
ECAI-B3-5-0.8/1.2CR15-4EC	.500	8750	21250	.0150	.500	4.000
ECAI-B3-5-0.8/1.2CR03-4EC	.500	8750	21250	.0300	.500	4.000
ECAI-B3-5-0.8/1.2CR06-4EC	.500	8750	21250	.0600	.500	4.000
ECAI-B3-5-0.8/1.2CR09-4EC	.500	8750	21250	.0900	.500	4.000
ECAI-B3-5-0.8/1.2CR125-4EC	.500	8750	21250	.1250	.500	4.000
ECAI-B3-5-0.8/1.2CR15-4EC	.500	8750	21250	.0150	.500	4.000
ECAI-B3-5-0.8/1.2CR03-4EC	.500	8750	21250	.0300	.500	4.000
ECAI-B3-5-0.8/1.2CR06-4EC	.500	8750	21250	.0600	.500	4.000
ECAI-B3-5-0.8/1.2CR09-4EC	.500	8750	21250	.0900	.500	4.000
ECAI-B3-5-0.8/1.2CR125-4EC	.500	8750	21250	.1250	.500	4.000
ECAI-B3-5-0.8/1.2CR15-4EC	.500	8750	21250	.0150	.500	4.000
ECAI-B3-5-0.8/1.2CR03-4EC	.500	8750	21250	.0300	.500	4.000
ECAI-B3-5-0.8/1.2CR06-4EC	.500	8750	21250	.0600	.500	4.000
ECAI-B3-5-0.8/1.2CR09-4EC	.500	8750	21250	.0900	.500	4.000
ECAI-B3-5-0.8/1.2CR125-4EC	.500	8750	21250	.1250	.500	4.000
ECAI-B3-5-0.8/1.2CR15-4EC	.500	8750	21250	.0150	.500	4.000
ECAI-B3-5-0.8/1.2CR03-4EC	.500	8750	21250	.0300	.500	4.000
ECAI-B3-5-0.8/1.2CR06-4EC	.500	8750	21250	.0600	.500	4.000
ECAI-B3-5-0.8/1.2CR09-4EC	.500	8750	21250	.0900	.500	4.000
ECAI-B3-5-0.8/1.2CR125-4EC	.500	8750	21250	.1250	.500	4.000
ECAI-B3-5-0.8/1.2CR15-4EC	.500	8750	21250	.0150	.500	4.000
ECAI-B3-5-0.8/1.2CR03-4EC	.500	8750	21250	.0300	.500	4.000
ECAI-B3-5-0.8/1.2CR06-4EC	.500	8750	21250	.0600	.500	4.000
ECAI-B3-5-0.8/1.2CR09-4EC	.500	8750	21250	.0900	.500	4.000
ECAI-B3-5-0.8/1.2CR125-4EC	.500	8750	21250	.1250	.500	4.000
ECAI-B3-5-0.8/1.2CR15-4EC	.500	8750	21250	.0150	.500	4.000
ECAI-B3-5-0.8/1.2CR03-4EC	.500	8750	21250	.0300	.500	4.000
ECAI-B3-5-0.8/1.2CR06-4EC	.500	8750	21250	.0600	.500	4.000
ECAI-B3-5-0.8/1.2CR09-4EC	.500	8750	21250	.0900	.500	4.000
ECAI-B3-5-0.8/1.2CR125-4EC	.500	8750	21250	.1250	.500	4.000
ECAI-B3-5-0.8/1.2CR15-4EC	.500	8750	21250	.0150	.500	4.000
ECAI-B3-5-0.8/1.2CR03-4EC	.500	8750	21250	.0300	.500	4.000
ECAI-B3-5-0.8/1.2CR06-4EC	.500	8750	21250	.0600	.500	4.000
ECAI-B3-5-0.						



FLASHSOLID SOLID CARBIDE ENDMILLS

3-FLUTE



• **DLC COATED FOR MACHINING ALUMINUM AND NON-FERROUS METALS**

CONTINUED FROM PREVIOUS PAGE

CONTINUED FROM PREVIOUS PAGE

PART#:	D	AP	LU	RE	d	OAL
ECAI-B3-1.2-3CR0-5EC	1.000	2.2500	2.2500	.0000	1.000	5.000
ECAI-B3-1.2-3CR03-5EC	1.000	2.2500	2.2500	.0300	1.000	5.000
ECAI-B3-1.2-3CR015-5EC	1.000	2.2500	2.2500	.0150	1.000	5.000
ECAI-B3-1.2-3CR06-5EC	1.000	2.2500	2.2500	.0600	1.000	5.000
ECAI-B3-1.2-3CR09-5EC	1.000	2.2500	2.2500	.0900	1.000	5.000
ECAI-B3-1.2-3CR125-5EC	1.000	2.2500	2.2500	.1250	1.000	5.000
ECAI-B3-1.2-6CR0-6EC	1.000	2.6250	2.6250	.0000	1.000	6.000
ECAI-B3-1.2-6CR015-6EC	1.000	2.6250	2.6250	.0150	1.000	6.000
ECAI-B3-1.2-6CR03-6EC	1.000	2.6250	2.6250	.0300	1.000	6.000
ECAI-B3-1.2-6CR06-6EC	1.000	2.6250	2.6250	.0600	1.000	6.000
ECAI-B3-1.2-6CR09-6EC	1.000	2.6250	2.6250	.0900	1.000	6.000

PART#:	D	AP	LU	RE	d	OAL
ECAI-B3-1.2-6CR125-6EC	1.000	2.6250	2.6250	.1250	1.000	6.000
ECAI-B3-1.3CR0-6EC	1.000	3.0000	3.0000	.0000	1.000	6.000
ECAI-B3-1.3CR015-6EC	1.000	3.0000	3.0000	.0150	1.000	6.000
ECAI-B3-1.3CR03-6EC	1.000	3.0000	3.0000	.0300	1.000	6.000
ECAI-B3-1.3CR06-6EC	1.000	3.0000	3.0000	.0600	1.000	6.000
ECAI-B3-1.3CR09-6EC	1.000	3.0000	3.0000	.0900	1.000	6.000
ECAI-B3-1.3CR125-6EC	1.000	3.0000	3.0000	.1250	1.000	6.000
ECAI-B3-1.4CR0-7EC	1.000	4.0000	4.0000	.0000	1.000	7.000
ECAI-B3-1.4CR015-7EC	1.000	4.0000	4.0000	.0150	1.000	7.000

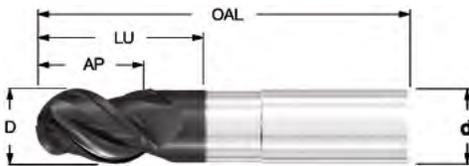
PART#:	D	AP	LU	RE	d	OAL
ECAI-B3-1.4CR03-7EC	1.000	4.0000	4.0000	.0300	1.000	7.000
ECAI-B3-1.4CR06-7EC	1.000	4.0000	4.0000	.0600	1.000	7.000
ECAI-B3-1.4CR09-7EC	1.000	4.0000	4.0000	.0900	1.000	7.000
ECAI-B3-1.4CR125-7EC	1.000	4.0000	4.0000	.1250	1.000	7.000
ECAI-B3-1.25-2CR0-4.5EC	1.250	2.0000	2.0000	.0000	1.250	4.500
ECAI-B3-1.25-2CR015-4.5EC	1.250	2.0000	2.0000	.0150	1.250	4.500
ECAI-B3-1.25-2CR03-4.5EC	1.250	2.0000	2.0000	.0300	1.250	4.500
ECAI-B3-1.25-2CR06-4.5EC	1.250	2.0000	2.0000	.0600	1.250	4.500
ECAI-B3-1.25-2CR09-4.5EC	1.250	2.0000	2.0000	.0900	1.250	4.500
ECAI-B3-1.25-2CR125-4.5EC	1.250	2.0000	2.0000	.1250	1.250	4.500
ECAI-B3-1.25-3CR0-6EC	1.250	3.0000	3.0000	.0000	1.250	6.000
ECAI-B3-1.25-3CR015-6EC	1.250	3.0000	3.0000	.0150	1.250	6.000
ECAI-B3-1.25-3CR03-6EC	1.250	3.0000	3.0000	.0300	1.250	6.000
ECAI-B3-1.25-3CR06-6EC	1.250	3.0000	3.0000	.0600	1.250	6.000
ECAI-B3-1.25-3CR09-6EC	1.250	3.0000	3.0000	.0900	1.250	6.000
ECAI-B3-1.25-3CR125-6EC	1.250	3.0000	3.0000	.1250	1.250	6.000



FLASHSOLID SOLID CARBIDE ENDMILLS - BALL-END

• **TAICN COATED**

3-FL



For Weldon shanks replace the 'C' in the Part # with a 'W'

Example - **EBI-4-500-2.0CVF4** = Cylindrical type
EBI-4-500-2.0WVF4 = Weldon type

PART#:	D	AP	LU	RE	d	OAL
EBAI-B3-125-5C-1.5EC	.125	.5000	.5000	.0625	.125	1.500
EBAI-B3-125-25C-1.5EC	.125	.2500	.2500	.0625	.125	1.500
EBAI-B3-187-315C-2EC	.187	.3150	.3200	.0938	.187	2.000
EBAI-B3-187-562C-2EC	.187	.5620	.5700	.0938	.187	2.000
EBAI-B3-25-375C-2EC	.250	.3750	.3750	.1250	.250	2.000
EBAI-B3-25-5/1.25C-3EC	.250	.5000	1.2500	.1250	.250	3.000
EBAI-B3-25-5/2.125C-4EC	.250	.5000	2.1250	.1250	.250	4.000
EBAI-B3-25-75C-2.5EC	.250	.7500	.7500	.1250	.250	2.500
EBAI-B3-25-1.1C-3EC	.250	1.0000	1.0000	.1250	.250	3.000
EBAI-B3-25-1.25C-4EC	.250	1.2500	1.2500	.1250	.250	4.000
EBAI-B3-312-5C-2EC	.312	.5000	.5000	.1563	.312	2.000
EBAI-B3-312-875C-2.5EC	.312	.8750	.8750	.1563	.312	2.500
EBAI-B3-312-1.1C-3EC	.312	1.0000	1.0000	.1563	.312	3.000
EBAI-B3-312-1.25C-4EC	.312	1.2500	1.2500	.1563	.312	4.000
EBAI-B3-437-1.1C-2.75EC	.437	1.0000	1.0000	.2188	.437	2.750
EBAI-B3-437-1.5C-4EC	.437	1.5000	1.5000	.2188	.437	4.000
EBAI-B3-437-2.1C-4EC	.437	2.0000	2.0000	.2188	.437	4.000
EBAI-B3-5-625C-2.5EC	.500	.6250	.6250	.2500	.500	2.500
EBAI-B3-5-875/1.37C-3EC	.500	.8750	1.3750	.2500	.500	3.000
EBAI-B3-5-875/2.12C-4EC	.500	.8750	2.1250	.2500	.500	4.000
EBAI-B3-5-875/3.12C-5EC	.500	.8750	3.1250	.2500	.500	5.000
EBAI-B3-5-875/4.125C-6EC	.500	.8750	4.1250	.2500	.500	6.000
EBAI-B3-5-1.25C-3EC	.500	1.2500	1.2500	.2500	.500	3.000
EBAI-B3-5-1.5C-4EC	.500	1.5000	1.5000	.2500	.500	4.000
EBAI-B3-5-1.75C-6EC	.500	1.7500	1.7500	.2500	.500	6.000
EBAI-B3-5-2.1C-4EC	.500	2.0000	2.0000	.2500	.500	4.000
EBAI-B3-5-2.5C-5EC	.500	2.5000	2.5000	.2500	.500	5.000
EBAI-B3-5-3.125C-6EC	.500	3.1250	3.1250	.2500	.500	6.000
EBAI-B3-625-75C-3EC	.625	.7500	.7500	.3125	.625	3.000
EBAI-B3-625-1/2.C-4EC	.625	1.0000	2.0000	.3125	.625	4.000
EBAI-B3-625-1/3.C-5EC	.625	1.0000	3.0000	.3125	.625	5.000
EBAI-B3-625-1/4.C-6EC	.625	1.0000	4.0000	.3125	.625	6.000
EBAI-B3-625-1.25C-3.5EC	.625	1.2500	1.2500	.3125	.625	3.500
EBAI-B3-625-1.5C-6EC	.625	1.5000	1.5000	.3125	.625	6.000
EBAI-B3-625-2.0C-4EC	.625	2.0000	2.0000	.3125	.625	4.000
EBAI-B3-625-2.25C-5EC	.625	2.2500	2.2500	.3125	.625	5.000
EBAI-B3-625-3.C-6EC	.625	3.0000	3.0000	.3125	.625	6.000
EBAI-B3-75-1.1C-3EC	.750	1.0000	1.0000	.3750	.750	3.000
EBAI-B3-75-1.25/2.C-4EC	.750	1.2500	2.0000	.3750	.750	4.000
EBAI-B3-75-1.25/3.C-5EC	.750	1.2500	3.0000	.3750	.750	5.000
EBAI-B3-75-1.25/4.C-6EC	.750	1.2500	4.0000	.3750	.750	6.000
EBAI-B3-75-1.5C-6EC	.750	1.5000	1.5000	.3750	.750	6.000
EBAI-B3-75-1.625C-4EC	.750	1.6250	1.6250	.3750	.750	4.000
EBAI-B3-75-2.25C-5EC	.750	2.2500	2.2500	.3750	.750	5.000
EBAI-B3-75-3.C-6EC	.750	3.0000	3.0000	.3750	.750	6.000
EBAI-B3-75-4.C-7EC	.750	4.0000	4.0000	.3750	.750	7.000
EBAI-B3-1-1.5C-4EC	1.000	1.5000	1.5000	.5000	1.000	4.000
EBAI-B3-1-1.5C-6EC	1.000	1.5000	1.5000	.5000	1.000	6.000
EBAI-B3-1-1.5/3.C-5EC	1.000	1.5000	3.0000	.5000	1.000	5.000
EBAI-B3-1-1.5/4.C-6EC	1.000	1.5000	4.0000	.5000	1.000	6.000
EBAI-B3-1-1.5/5.C-7EC	1.000	1.5000	5.0000	.5000	1.000	7.000
EBAI-B3-1-2.C-4.5EC	1.000	2.0000	2.0000	.5000	1.000	4.500
EBAI-B3-1-2.25C-5EC	1.000	2.2500	2.2500	.5000	1.000	5.000
EBAI-B3-1-2.625C-6EC	1.000	2.6250	2.6250	.5000	1.000	6.000
EBAI-B3-1-3.C-6EC	1.000	3.0000	3.0000	.5000	1.000	6.000
EBAI-B3-1-4.C-7EC	1.000	4.0000	4.0000	.5000	1.000	7.000
EBAI-B3-1.25-2.C-4.5EC	1.250	2.0000	2.0000	.6250	1.250	4.500
EBAI-B3-1.25-3.C-6EC	1.250	3.0000	3.0000	.6250	1.250	6.000

PART#	D	AP	LU	d	OAL
EBI-4-125-500VF1.5	.125	.650	.650	.125	1.50
EBI-4-187-625CVF2	.188	.625	.625	.188	2.00
EBI-4-250-375CVF2	.250	.375	.375	.250	2.00
EBI-4-250-500/1.25CVF3	.250	.650	1.250	.250	3.00
EBI-4-250-400/2.12CVF4	.250	.650	2.125	.250	4.00
EBI-4-250-750CVF2.5	.250	.750	.750	.250	2.50
EBI-4-250-1.0CVF3	.250	1.000	1.000	.250	3.00
EBI-4-250-1.25CVF4	.250	1.250	1.250	.250	4.00
EBI-4-250-1.75CVF4	.250	1.750	1.750	.250	4.00
EBI-4-312-500CVF2	.313	.650	.650	.313	2.00
EBI-4-312-875CVF2.5	.313	.875	.875	.313	2.50
EBI-4-312-1.0CVF3	.313	1.000	1.000	.313	3.00
EBI-4-312-1.25CVF4	.313	1.250	1.250	.313	4.00
EBI-4-312-1.62CVF4	.313	1.625	1.625	.313	4.00
EBI-4-375-500CVF2	.375	.650	.650	.375	2.00
EBI-4-375-750/1.25CVF3	.375	.750	1.250	.375	3.00
EBI-4-375-750/2.12CVF4	.375	.750	2.125	.375	4.00
EBI-4-375-1.0CVF2.5	.375	1.000	1.000	.375	2.50
EBI-4-375-1.0CVF3	.375	1.000	1.000	.375	3.00
EBI-4-375-1.5CVF4	.375	1.500	1.500	.375	4.00
EBI-4-375-2.5CVF5	.375	2.500	2.500	.375	5.00
EBI-4-437-625CVF2.75	.437	.625	.625	.437	2.75
EBI-4-437-1.0CVF2.75	.437	1.000	1.000	.437	2.75
EBI-4-437-1.5CVF4	.437	1.500	1.500	.437	4.00
EBI-4-437-3.0CVF6	.437	3.000	3.000	.437	6.00
EBI-4-500-625CVF2.5	.500	.625	.625	.500	2.50
EBI-4-500-875/1.37CVF3	.500	.875	1.375	.500	3.00
EBI-4-500-875/2.12CVF4	.500	.875	2.125	.500	4.00
EBI-4-500-875/4.125CVF6	.500	.875	4.125	.500	6.00
EBI-4-500-1.0CVF3	.500	1.000	1.000	.500	3.00
EBI-4-500-1.25CVF3	.500	1.250	1.250	.500	3.00
EBI-4-500-1.5CVF4	.500	1.500	1.500	.500	4.00
EBI-4-500-2.0CVF4	.500	2.000	2.000	.500	4.00
EBI-4-500-2.5CVF5	.500	2.500	2.500	.500	5.00
EBI-4-500-3.0CVF6	.500	3.000	3.000	.500	6.00
EBI-4-625-750CVF3	.625	.750	.750	.625	3.00
EBI-4-625-1.0/2.CVCF4	.625	1.000	2.000	.625	4.00
EBI-4-625-1.0/3.CVCF5	.625	1.000	3.000	.625	5.00
EBI-4-625-1.0/4.CVCF6	.625	1.000	4.000	.625	6.00
EBI-4-625-1.25CVF3.5	.62				

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PART#	D	AP	LU	RE	d	OAL
ECI-6-250-500/2.125COVF4	250	5000	2.1250	0.0000	250	4.000
ECI-6-250-500/2.13CO15VF4	250	5000	2.1300	0.1500	250	4.000
ECI-6-250-500/2.13CO30VF4	250	5000	2.1300	0.3000	250	4.000
ECI-6-250-500/2.13CO60VF4	250	5000	2.1300	0.6000	250	4.000
ECI-6-250-500COVF2	250	5000	5.0000	0.0000	250	2.000
ECI-6-250-500CO15VF2	250	5000	5.0000	0.1500	250	2.000
ECI-6-250-500CO30VF2	250	5000	5.0000	0.3000	250	2.000
ECI-6-250-500CO60VF2	250	5000	5.0000	0.6000	250	2.000
ECI-6-250-750COVF2.5	250	7500	7.5000	0.0000	250	2.500
ECI-6-250-750CO15VF2.5	250	7500	7.5000	0.1500	250	2.500
ECI-6-250-750CO30VF2.5	250	7500	7.5000	0.3000	250	2.500
ECI-6-250-750CO60VF2.5	250	7500	7.5000	0.6000	250	2.500
ECI-6-250-1COVF3	250	10000	1.0000	0.0000	250	3.000
ECI-6-250-1CO15VF3	250	10000	1.0000	0.1500	250	3.000
ECI-6-250-1CO30VF3	250	10000	1.0000	0.3000	250	3.000
ECI-6-250-1CO60VF3	250	10000	1.0000	0.6000	250	3.000
ECI-6-312-500COVF2	312	5000	5.0000	0.0000	312	2.000
ECI-6-312-500CO15VF2	312	5000	5.0000	0.1500	312	2.000
ECI-6-312-500CO30VF2	312	5000	5.0000	0.3000	312	2.000
ECI-6-312-500CO60VF2	312	8750	8.7500	0.0000	312	2.500
ECI-6-312-875CO15VF2.5	312	8750	8.7500	0.1500	312	2.500
ECI-6-312-875CO30VF2.5	312	8750	8.7500	0.3000	312	2.500
ECI-6-312-1COVF3	312	10000	1.0000	0.0000	312	3.000
ECI-6-312-1CO15VF3	312	10000	1.0000	0.1500	312	3.000
ECI-6-312-1CO30VF3	312	10000	1.0000	0.3000	312	3.000
ECI-6-312-1CO60VF3	312	15000	1.5000	0.0000	312	4.000
ECI-6-312-1.5CO15VF4	312	15000	1.5000	0.1500	312	4.000
ECI-6-312-1.5CO30VF4	312	15000	1.5000	0.3000	312	4.000
ECI-6-375-500COVF2	375	5000	5.0000	0.0000	375	2.000
ECI-6-375-500CO15VF2	375	5000	5.0000	0.1500	375	2.000
ECI-6-375-500CO30VF2	375	5000	5.0000	0.3000	375	2.000
ECI-6-375-500CO60VF2	375	5000	5.0000	0.6000	375	2.000
ECI-6-375-500CO90VF2	375	5000	5.0000	0.9000	375	2.000
ECI-6-375-500C125VF2	375	5000	5.0000	1.2500	375	2.000
ECI-6-375-750/2.125COVF4	375	7500	2.1250	0.0000	375	4.000
ECI-6-375-750/2.13CO15VF4	375	7500	2.1300	0.1500	375	4.000
ECI-6-375-750/2.13CO30VF4	375	7500	2.1300	0.3000	375	4.000
ECI-6-375-750/2.13CO60VF4	375	7500	2.1300	0.6000	375	4.000
ECI-6-375-1COVF2.5	375	10000	1.0000	0.0000	375	2.500
ECI-6-375-1CO15VF2.5	375	10000	1.0000	0.1500	375	2.500
ECI-6-375-1CO30VF2.5	375	10000	1.0000	0.3000	375	2.500
ECI-6-375-1CO60VF2.5	375	10000	1.0000	0.6000	375	2.500
ECI-6-375-1CO90VF2.5	375	10000	1.0000	0.9000	375	2.500
ECI-6-375-1C125VF2.5	375	10000	1.0000	1.2500	375	2.500
ECI-6-375-1.5COVF4	375	15000	1.5000	0.0000	375	4.000
ECI-6-375-1.5CO15VF4	375	15000	1.5000	0.1500	375	4.000
ECI-6-375-1.5CO30VF4	375	15000	1.5000	0.3000	375	4.000
ECI-6-375-1.5CO60VF4	375	15000	1.5000	0.6000	375	4.000
ECI-6-375-1.5CO90VF4	375	15000	1.5000	0.9000	375	4.000
ECI-6-375-1.5C125VF4	375	15000	1.5000	1.2500	375	4.000
ECI-6-500-625COVF2.5	500	6250	6.2500	0.0000	500	2.500
ECI-6-500-625CO15VF2.5	500	6250	6.2500	0.1500	500	2.500
ECI-6-500-625CO30VF2.5	500	6250	6.2500	0.3000	500	2.500
ECI-6-500-625CO60VF2.5	500	6250	6.2500	0.6000	500	2.500
ECI-6-500-625CO90VF2.5	500	6250	6.2500	0.9000	500	2.500
ECI-6-500-625C125VF2.5	500	6250	6.2500	1.2500	500	2.500
ECI-6-500-875/1.375COVF3	500	8750	1.3750	0.0000	500	3.000
ECI-6-500-875/1.38CO15VF3	500	8750	1.3800	0.1500	500	3.000
ECI-6-500-875/1.38CO30VF3	500	8750	1.3800	0.3000	500	3.000
ECI-6-500-875/1.38CO60VF3	500	8750	1.3800	0.6000	500	3.000
ECI-6-500-875/1.38CO90VF3	500	8750	1.3800	0.9000	500	3.000
ECI-6-500-875/1.38C125VF3	500	8750	1.3800	1.2500	500	3.000
ECI-6-500-875/2.125COVF4	500	8750	2.1250	0.0000	500	4.000
ECI-6-500-875/2.13CO15VF4	500	8750	2.1300	0.1500	500	4.000
ECI-6-500-875/2.13CO30VF4	500	8750	2.1300	0.3000	500	4.000
ECI-6-500-875/2.13CO60VF4	500	8750	2.1300	0.6000	500	4.000
ECI-6-500-875/2.13CO90VF4	500	8750	2.1300	0.9000	500	4.000
ECI-6-500-875/2.13C125VF4	500	8750	2.1300	1.2500	500	4.000
ECI-6-500-875/3.125COVF5	500	8750	3.1250	0.0000	500	5.000
ECI-6-500-875/3.13CO15VF5	500	8750	3.1250	0.1500	500	5.000
ECI-6-500-875/3.13CO30VF5	500	8750	3.1250	0.3000	500	5.000
ECI-6-500-875/3.13CO60VF5	500	8750	3.1250	0.6000	500	5.000
ECI-6-500-875/3.13CO90VF5	500	8750	3.1250	0.9000	500	5.000
ECI-6-500-875/3.13C125VF5	500	8750	3.1250	1.2500	500	5.000
ECI-6-500-875/4.125COVF6	500	8750	4.1250	0.0000	500	6.000
ECI-6-500-875/4.13CO15VF6	500	8750	4.1250	0.1500	500	6.000
ECI-6-500-875/4.13CO30VF6	500	8750	4.1250	0.3000	500	6.000
ECI-6-500-875/4.13CO60VF6	500	8750	4.1250	0.6000	500	6.000
ECI-6-500-875/4.13CO90VF6	500	8750	4.1250	0.9000	500	6.000
ECI-6-500-875/4.13C125VF6	500	8750	4.1250	1.2500	500	6.000
ECI-6-500-1.25COVF3	500	12500	1.2500	0.0000	500	3.000
ECI-6-500-1.25CO15VF3	500	12500	1.2500	0.1500	500	3.000
ECI-6-500-1.25CO30VF3	500	12500	1.2500	0.3000	500	3.000
ECI-6-500-1.25CO60VF3	500	12500	1.2500	0.6000	500	3.000
ECI-6-500-1.25CO90VF3	500	12500	1.2500	0.9000	500	3.000
ECI-6-500-1.25C125VF3	500	12500	1.2500	1.2500	500	3.000
ECI-6-500-1.62COVF4	500	16250	1.6250	0.0000	500	4.000
ECI-6-500-1.62CO15VF4	500	16250	1.6250	0.1500	500	4.000
ECI-6-500-1.62CO30VF4	500	16250	1.6250	0.3000	500	4.000
ECI-6-500-1.62CO60VF4	500	16250	1.6250	0.6000	500	4.000
ECI-6-500-1.62CO90VF4	500	16250	1.6250	0.9000	500	4.000
ECI-6-500-1.62C125VF4	500	16250	1.6250	1.2500	500	4.000
ECI-6-500-2COVF4	500	20000	2.0000	0.0000	500	4.000
ECI-6-500-2CO15VF4	500	20000	2.0000	0.1500	500	4.000
ECI-6-500-2CO30VF4	500	20000	2.0000	0.3000	500	4.000
ECI-6-500-2CO60VF4	500	20000	2.0000	0.6000	500	4.000
ECI-6-500-2CO90VF4	500	20000	2.0000	0.9000	500	4.000
ECI-6-500-2C125VF4	500	20000	2.0000	1.2500	500	4.000
ECI-6-500-2.5COVF5	500	25000	2.5000	0.0000	500	5.000
ECI-6-500-2.5CO15VF5	500	25000	2.5000	0.1500	500	5.000

PART#	D	AP	LU	RE	d	OAL
ECI-6-500-2.5CO30VF5	500	25000	2.5000	0.3000	500	5.000
ECI-6-500-2.5CO60VF5	500	25000	2.5000	0.6000	500	5.000
ECI-6-500-2.5CO90VF5	500	25000	2.5000	0.9000	500	5.000
ECI-6-500-2.5C125VF5	500	25000	2.5000	1.2500	500	5.000
ECI-6-500-3.12COVF6	500	31250	3.1250	0.0000	500	6.000
ECI-6-500-3.12CO15VF6	500	31250	3.1250	0.1500	500	6.000
ECI-6-500-3.12CO30VF6	500	31250	3.1250	0.3000	500	6.000
ECI-6-500-3.12CO60VF6	500	31250	3.1250	0.6000	500	6.000
ECI-6-500-3.12CO90VF6	500	31250	3.1250	0.9000	500	6.000
ECI-6-500-3.12C125VF6	500	31250	3.1250	1.2500	500	6.000
ECI-6-500-3.12CO15VF6	500	31250	3.1250	0.1500	500	6.000
ECI-6-500-3.12CO30VF6	500	31250	3.1250	0.3000	500	6.000
ECI-6-500-3.12CO60VF6	500	31250	3.1250	0.6000	500	6.000
ECI-6-500-3.12CO90VF6	500	31250	3.1250	0.9000	500	6.000
ECI-6-500-3.12C125VF6	500	31250	3.1250	1.2500	500	6.000
ECI-6-500-3.12CO15VF6	500	31250	3.1250	0.1500	500	6.000
ECI-6-500-3.12CO30VF6	500	31250	3.1250	0.3000	500	6.000
ECI-6-500-3.12CO60VF6	500	31250	3.1250	0.6000	500	6.000
ECI-6-500-3.12CO90VF6	500	31250	3.1250	0.9000	500	6.000
ECI-6-500-3.12C125VF6	500	31250	3.1250	1.2500	500	6.000
ECI-6-500-3.12CO15VF6	500	31250	3.1250	0.1500	500	6.000
ECI-6-500-3.12CO30VF6	500	31250	3.1250	0.3000	500	6.000
ECI-6-500-3.12CO60VF6	500	31250	3.1250	0.6000	500	6.000
ECI-6-500-3.12CO90VF6	500	31250	3.1250	0.9000	500	6.000
ECI-6-500-3.12C125VF6	500	31250	3.1250	1.2500	500	6.000
ECI-6-500-3.12CO15VF6	500	31250	3.1250	0.1500	500	6.000
ECI-6-500-3.12CO30VF6	500	31250	3.1250	0.3000	500	6.000
ECI-6-500-3.12CO60VF6	500	31250	3.1250	0.6000	500	6.000
ECI-6-500-3.12CO90VF6	500	31250	3.1250	0.9000	500	6.000
ECI-6-500-3.12C125VF6	500	31250	3.1250	1.2500	500	6.000
ECI-6-500-3.12CO15VF6	500	31250	3.1250	0.1500	500	6.000
ECI-6-500-3.12CO30VF6	500	31250	3.1250	0.3000	500	6.000
ECI-6-500-3.12CO60VF6	500	31250	3.1250	0.6000	500	6.000
ECI-6-500-3.12CO90VF6	500	31250	3.1250	0.9000	500	6.000
ECI-6-500-3.12C125VF6	500	31250	3.1250			



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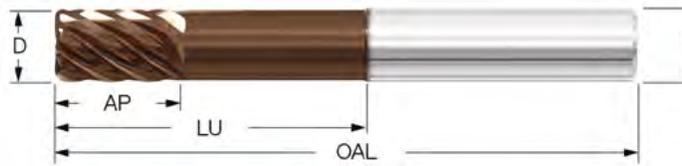
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FLASHSOLID SOLID CARBIDE ENDMILLS

7-FLUTE

- VARIABLE PITCH
- CHATTER FREE
- TIAICN COATED
- WITH OR WITHOUT CORNER RADIUS
- WITH OR WITHOUT NECK RELIEF



PART#	D	AP	LU	RE	d	OAL
ECI-7-250-500/1.25C0V3	.250	.5000	1.2500	.0000	.250	3.000
ECI-7-250-500/1.25C015V3	.250	.5000	1.2500	.0150	.250	3.000
ECI-7-250-500/1.25C030V3	.250	.5000	1.2500	.0300	.250	3.000
ECI-7-250-500/1.25C060V3	.250	.5000	1.2500	.0600	.250	3.000
ECI-7-250-500/2.13C0V4	.250	.5000	2.1250	.0000	.250	4.000
ECI-7-250-500/2.13C015V4	.250	.5000	2.1250	.0150	.250	4.000
ECI-7-250-500/2.13C030V4	.250	.5000	2.1250	.0300	.250	4.000
ECI-7-250-500/2.13C060V4	.250	.5000	2.1250	.0600	.250	4.000
ECI-7-500-500C0V2	.250	.5000	5.0000	.0000	.250	2.000
ECI-7-500-500C015V2	.250	.5000	5.0000	.0150	.250	2.000
ECI-7-500-500C030V2	.250	.5000	5.0000	.0300	.250	2.000
ECI-7-500-500C060V2	.250	.5000	5.0000	.0600	.250	2.000
ECI-7-250-750C0V2.5	.250	.7500	7.5000	.0000	.250	2.500
ECI-7-250-750C015V2.5	.250	.7500	7.5000	.0150	.250	2.500
ECI-7-250-750C030V2.5	.250	.7500	7.5000	.0300	.250	2.500
ECI-7-250-1.0C0V3	.250	1.0000	1.0000	.0000	.250	3.000
ECI-7-250-1.0C015V3	.250	1.0000	1.0000	.0150	.250	3.000
ECI-7-250-1.0C030V3	.250	1.0000	1.0000	.0300	.250	3.000
ECI-7-250-1.0C060V3	.250	1.0000	1.0000	.0600	.250	3.000
ECI-7-250-1.25C0V4	.250	1.2500	1.2500	.0000	.250	4.000
ECI-7-250-1.25C015V4	.250	1.2500	1.2500	.0150	.250	4.000
ECI-7-250-1.25C030V4	.250	1.2500	1.2500	.0300	.250	4.000
ECI-7-250-1.25C060V4	.250	1.2500	1.2500	.0600	.250	4.000
ECI-312-500C0V2	.312	.5000	5.0000	.0000	.312	2.000
ECI-312-500C015V2	.312	.5000	5.0000	.0150	.312	2.000
ECI-312-500C030V2	.312	.5000	5.0000	.0300	.312	2.000
ECI-312-500C060V2	.312	.5000	5.0000	.0600	.312	2.000
ECI-312-875C0V2.5	.312	.8750	8.7500	.0000	.312	2.500
ECI-312-875C015V2.5	.312	.8750	8.7500	.0150	.312	2.500
ECI-312-875C030V2.5	.312	.8750	8.7500	.0300	.312	2.500
ECI-312-1.0C0V3	.312	1.0000	1.0000	.0000	.312	3.000
ECI-312-1.0C015V3	.312	1.0000	1.0000	.0150	.312	3.000
ECI-312-1.0C030V3	.312	1.0000	1.0000	.0300	.312	3.000
ECI-312-1.0C060V3	.312	1.0000	1.0000	.0600	.312	3.000
ECI-312-1.25C0V4	.312	1.2500	1.2500	.0000	.312	4.000
ECI-312-1.25C015V4	.312	1.2500	1.2500	.0150	.312	4.000
ECI-312-1.25C030V4	.312	1.2500	1.2500	.0300	.312	4.000
ECI-312-1.25C060V4	.312	1.2500	1.2500	.0600	.312	4.000
ECI-375-500C0V2	.375	.5000	5.0000	.0000	.375	2.000
ECI-375-500C015V2	.375	.5000	5.0000	.0150	.375	2.000
ECI-375-500C030V2	.375	.5000	5.0000	.0300	.375	2.000
ECI-375-500C060V2	.375	.5000	5.0000	.0600	.375	2.000
ECI-375-750/1.25C0V3	.375	.7500	1.2500	.0000	.375	3.000
ECI-375-750/1.25C015V3	.375	.7500	1.2500	.0150	.375	3.000
ECI-375-750/1.25C030V3	.375	.7500	1.2500	.0300	.375	3.000
ECI-375-750/1.25C060V3	.375	.7500	1.2500	.0600	.375	3.000
ECI-375-750/2.13C0V4	.375	.7500	2.1250	.0000	.375	4.000
ECI-375-750/2.13C015V4	.375	.7500	2.1250	.0150	.375	4.000
ECI-375-750/2.13C030V4	.375	.7500	2.1250	.0300	.375	4.000
ECI-375-750/2.13C060V4	.375	.7500	2.1250	.0600	.375	4.000
ECI-375-1.0C0V2.5	.375	1.0000	1.0000	.0000	.375	2.500
ECI-375-1.0C015V2.5	.375	1.0000	1.0000	.0150	.375	2.500
ECI-375-1.0C030V2.5	.375	1.0000	1.0000	.0300	.375	2.500
ECI-375-1.0C060V2.5	.375	1.0000	1.0000	.0600	.375	2.500
ECI-375-1.5C0V3	.375	1.5000	1.5000	.0000	.375	4.000
ECI-375-1.5C015V3	.375	1.5000	1.5000	.0150	.375	4.000
ECI-375-1.5C030V3	.375	1.5000	1.5000	.0300	.375	4.000
ECI-375-1.5C060V3	.375	1.5000	1.5000	.0600	.375	4.000
ECI-437-1.0C0V2.75	.437	1.0000	1.0000	.0000	.437	2.750
ECI-437-1.0C015V2.75	.437	1.0000	1.0000	.0150	.437	2.750
ECI-437-1.0C030V2.75	.437	1.0000	1.0000	.0300	.437	2.750
ECI-437-1.0C060V2.75	.437	1.0000	1.0000	.0600	.437	2.750
ECI-437-2.0C0V4	.437	2.0000	2.0000	.0000	.437	4.000
ECI-437-2.0C015V4	.437	2.0000	2.0000	.0150	.437	4.000
ECI-437-2.0C030V4	.437	2.0000	2.0000	.0300	.437	4.000
ECI-437-2.0C060V4	.437	2.0000	2.0000	.0600	.437	4.000
ECI-7-500-625C0V2.5	.500	.6250	6.2500	.0000	.500	2.500
ECI-7-500-625C015V2.5	.500	.6250	6.2500	.0150	.500	2.500
ECI-7-500-625C030V2.5	.500	.6250	6.2500	.0300	.500	2.500
ECI-7-500-625C060V2.5	.500	.6250	6.2500	.0600	.500	2.500
ECI-7-500-875/1.38C0V3	.500	.8750	1.3750	.0000	.500	3.000
ECI-7-500-875/1.38C015V3	.500	.8750	1.3750	.0150	.500	3.000
ECI-7-500-875/1.38C030V3	.500	.8750	1.3750	.0300	.500	3.000
ECI-7-500-875/1.38C060V3	.500	.8750	1.3750	.0600	.500	3.000
ECI-7-500-875/1.38C090V3	.500	.8750	1.3750	.0900	.500	3.000
ECI-7-500-875/1.38C125V3	.500	.8750	1.3750	.1250	.500	3.000
ECI-7-500-875/2.13C0V4	.500	.8750	2.1250	.0000	.500	4.000
ECI-7-500-875/2.13C015V4	.500	.8750	2.1250	.0150	.500	4.000
ECI-7-500-875/2.13C030V4	.500	.8750	2.1250	.0300	.500	4.000
ECI-7-500-875/2.13C060V4	.500	.8750	2.1250	.0600	.500	4.000
ECI-7-500-875/2.13C090V4	.500	.8750	2.1250	.0900	.500	4.000
ECI-7-500-875/2.13C125V4	.500	.8750	2.1250	.1250	.500	4.000
ECI-7-500-875/3.13C0V5	.500	.8750	3.1250	.0000	.500	5.000
ECI-7-500-875/3.13C015V5	.500	.8750	3.1250	.0150	.500	5.000
ECI-7-500-875/3.13C030V5	.500	.8750	3.1250	.0300	.500	5.000
ECI-7-500-875/3.13C060V5	.500	.8750	3.1250	.0600	.500	5.000
ECI-7-500-875/3.13C090V5	.500	.8750	3.1250	.0900	.500	5.000
ECI-7-500-875/3.13C125V5	.500	.8750	3.1250	.1250	.500	5.000
ECI-7-500-875/4.13C0V6	.500	.8750	4.1250	.0000	.500	6.000
ECI-7-500-875/4.13C015V6	.500	.8750	4.1250	.0150	.500	6.000
ECI-7-500-875/4.13C030V6	.500	.8750	4.1250	.0300	.500	6.000
ECI-7-500-875/4.13C060V6	.500	.8750	4.1250	.0600	.500	6.000
ECI-7-500-875/4.13C090V6	.500	.8750	4.1250	.0900	.500	6.000
ECI-7-500-875/4.13C125V6	.500	.8750	4.1250	.1250	.500	6.000

PART#	D	AP	LU	RE	d	OAL
ECI-7-500-1.25C0V3	.500	1.2500	1.2500	.0000	.500	3.000
ECI-7-500-1.25C015V3	.500	1.2500	1.2500	.0150	.500	3.000
ECI-7-500-1.25C030V3	.500	1.2500	1.2500	.0300	.500	3.000
ECI-7-500-1.25C060V3	.500	1.2500	1.2500	.0600	.500	3.000
ECI-7-500-1.25C090V3	.500	1.2500	1.2500	.0900	.500	3.000
ECI-7-500-1.25C125V3	.500	1.2500	1.2500	.1250	.500	3.000
ECI-7-500-2.0C0V4	.500	2.0000	2.0000	.0000	.500	4.000
ECI-7-500-2.0C015V4	.500	2.0000	2.0000	.0150	.500	4.000
ECI-7-500-2.0C030V4	.500	2.0000	2.0000	.0300	.500	4.000
ECI-7-500-2.0C060V4	.500	2.0000	2.0000	.0600	.500	4.000
ECI-7-500-2.0C090V4	.500	2.0000	2.0000	.0900	.500	4.000
ECI-7-500-2.0C125V4	.500	2.0000	2.0000	.1250	.500	4.000
ECI-7-500-2.5C0V5	.500	2.5000	2.5000	.0000	.500	5.000
ECI-7-500-2.5C015V5	.500	2.5000	2.5000	.0150	.500	5.000
ECI-7-500-2.5C030V5	.500	2.5000	2.5000	.0300	.500	5.000
ECI-7-500-2.5C060V5	.500	2.5000	2.5000	.0600	.500	5.000
ECI-7-500-2.5C090V5	.500	2.5000	2.5000	.0900	.500	5.000
ECI-7-500-2.5C125V5	.500	2.5000	2.5000	.1250	.500	5.000
ECI-7-500-3.13C0V6	.500	3.1250	3.1250	.0000	.500	6.000
ECI-7-500-3.13C015V6	.500	3.1250	3.1250	.0150	.500	6.000
ECI-7-500-3.13C030V6	.500	3.1250	3.1250	.0300	.500	6.000
ECI-7-500-3.13C060V6	.500	3.1250	3.1250	.0600	.500	6.000
ECI-7-500-3.13C090V6	.500	3.1250	3.1250	.0900	.500	6.000
ECI-7-500-3.13C125V6	.500	3.1250	3.1250	.1250	.500	6.000
ECI-7-625-750C0V3	.625	.7500	.7500	.0000	.625	3.000
ECI-7-625-750C015V3	.625	.7500	.7500	.0150	.625	3.000
ECI-7-625-750C030V3	.625	.7500	.7500	.0300	.625	3.000
ECI-7-625-750C060V3	.625	.7500	.7500	.0600	.625	3.000
ECI-7-625-750C090V3	.625	.7500	.7500	.0900	.625	3.000
ECI-7-625-750C125V3	.625	.7500	.7500	.1250	.625	3.000
ECI-7-625-1.0/2.0C0V4	.625	1.0000	2.0000	.0000	.625	4.000
ECI-7-625-1.0/2.0C015V4	.625	1.0000	2.0000	.0150	.625	4.000
ECI-7-625-1.0/2.0C030V4	.625	1.0000	2.0000	.0300	.625	4.000
ECI-7-625-1.0/2.0C060V4	.625	1.0000	2.0000	.0600	.625	4.000
ECI-7-625-1.0/2.0C090V4	.625	1.0000	2.0000	.0900	.625	4.000
ECI-7-625-1.0/2.0C125V4	.625	1.0000	2.0000	.1250	.625	4.000
ECI-7-625-1.0/3.0C0V5	.625	1.0000	3.0000	.0000	.625	5.000
ECI-7-625-1.0/3.0C015V5	.625	1.0000	3.0000	.0150	.625	5.000
ECI-7-625-1.0/3.0C030V5	.625	1.0000	3.0000	.0300	.625	5.000
ECI-7-625-1.0/3.0C060V5	.625	1.0000	3.0000	.0600	.625	5.000
ECI-7-625-1.0/3.0C090V5	.625	1.0000	3.0000	.0900	.625	5.000
ECI-7-625-1.0/3.0C125V5	.625	1.0000				



ISCARTHREAD LAYDOWN THREADING SYSTEMS

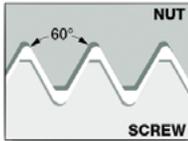
PARTIAL PROFILE 60°



- Performs different thread standards and suitable for a wide range of pitches which have a common angle (60° or 55°).
- Inserts with small root-corner radius suitable for the smallest pitch of the range.
- Additional operation to complete the outer/internal diameter is necessary.
- Not recommended for mass production.
- Eliminates the need for different inserts.



Regular Type



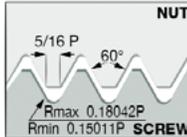
U Type

I.C.	PITCH RANGE		PART #	
	mm	TPI	INTERNAL*	EXTERNAL*
5/32"	0.5-1.25	48-20	061R/L-A60	-
	0.5-1.25	48-20	061R/LM-A60	-
3/16"	0.5-1.5	48-16	081R/L-A60	-
	0.5-1.5	48-16	081R/LM-A60	-
1/4"	0.5-1.5	48-16	111R/L-A60	11ER/L-A60
	0.5-1.5	48-16	111R/LM-A60	-
3/8"	0.5-1.5	48-16	161R/L-A60	16ER/L-A60
	0.5-1.5	48-16	161R/LB/M-A60	16ER/LB/M-A60
	1.75-3.0	14-8	161R/L-G60	16ER/L-G60
	1.75-3.0	14-8	161R/LB/M-G60	16ER/LB/M-G60
	0.5-3.0	48-8	161R/L-AG60	16ER/L-AG60
	0.5-3.0	48-8	161R/LB/M-AG60	16ER/LB/M-AG60
1/2"	3.5-5.0	7-5	221R/L-N60	22ER/L-N60
	3.5-5.0	7-5	221R/LM-N60	22ER/LM-N60
5/8"	5.5-6.0	4.5-4	271R/L-Q60	27ER/L-Q60
	5.5-6.0	4.5-4	271R/LM-Q60	-
3/16" U	1.75-2.0	14-11	08U1R/L-U60	-
1/2" U	5.5-8.0	4.5-3.25	22UE1R/L-U60	-
5/8" U	6.5-9.0	4.2-7.5	27UE1R/L-U60	-

* R- For Right Hand. L- For Left Hand

UNJ - FULL PROFILE

Application: Aircraft and Aerospace Industry



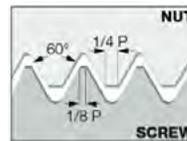
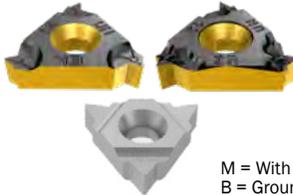
D	PITCH TPI	PART #		
		INTERNAL	EXTERNAL	
1/4	48	111R/L-48UNJ	11ER/L-48UNJ	
	44	111R/L-44UNJ	11ER/L-44UNJ	
	40	111R/L-40UNJ	11ER/L-40UNJ	
	36	111R/L-36UNJ	11ER/L-36UNJ	
	32	111R/L-32UNJ	11ER/L-32UNJ	
	28	111R/L-28UNJ	11ER/L-28UNJ	
	24	111R/L-24UNJ	11ER/L-24UNJ	
	20	111R/L-20UNJ	11ER/L-20UNJ	
	18	111R/L-18UNJ	11ER/L-18UNJ	
	16	111R/L-16UNJ	11ER/L-16UNJ	
	14	111R/L-14UNJ	11ER/L-14UNJ	
	3/8	48	161R/L-48UNJ	16ER/L-48UNJ
		44	161R/L-44UNJ	16ER/L-44UNJ
		40	161R/L-40UNJ	16ER/L-40UNJ
36		161R/L-36UNJ	16ER/L-36UNJ	
32		161R/L-32UNJ	16ER/L-32UNJ	
28		161R/L-28UNJ	16ER/L-28UNJ	
24		161R/L-24UNJ	16ER/L-24UNJ	
20		161R/L-20UNJ	16ER/L-20UNJ	
18		161R/L-18UNJ	16ER/L-18UNJ	
16		161R/L-16UNJ	16ER/L-16UNJ	
14		161R/L-14UNJ	16ER/L-14UNJ	
13		161R/L-13UNJ	16ER/L-13UNJ	
12		161R/L-12UNJ	16ER/L-12UNJ	
11		161R/L-11UNJ	16ER/L-11UNJ	
10		161R/L-10UNJ	16ER/L-10UNJ	
9		161R/L-9UNJ	16ER/L-9UNJ	
8		161R/L-8UNJ	16ER/L-8UNJ	

FULL PROFILE 60° UN



- Performs complete thread profile.
- Root corner radius is suitable only for the relevant pitch.
- Recommended for mass production.
- Suitable for one profile only.

HOLDERS SHOWN ON THE NEXT PAGE

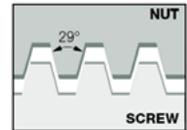


M = With Chipbreaker
B = Ground with Chipbreaker

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	32	061R/L-32UN	-
	28	061R/L-28UN	-
	24	061R/L-24UN	-
	20	061R/L-20UN	-
	18	061R/L-18UN	-
	16	061R/L-16UN	-
3/16"	32	081R/L-32UN	-
	28	081R/L-28UN	-
	24	081R/L-24UN	-
	20	081R/L-20UN	-
	18	081R/L-18UN	-
	16	081R/L-16UN	-
	14	081R/L-14UN	-
	13	08U1R/L-13UN	-
	12	08U1R/L-12UN	-
	11	08U1R/L-11UN	-
	72	111R/L-72UN	-
	64	111R/L-64UN	-
56	111R/L-56UN	11ER/L-56UN	
48	111R/L-48UN	11ER/L-48UN	
44	-	11ER/L-44UN	
40	111R/L-40UN	11ER/L-40UN	
36	111R/L-36UN	11ER/L-36UN	
32	111R/L-32UN	11ER/L-32UN	
28	111R/L-28UN	11ER/L-28UN	
24	111R/L-24UN	11ER/L-24UN	
20	111R/L-20UN	11ER/L-20UN	
18	111R/L-18UN	11ER/L-18UN	
16	111R/L-16UN	11ER/L-16UN	
14	111R/L-14UN	-	
56	161R/L-56UN	16ER/L-56UN	
48	161R/L-48UN	16ER/L-48UN	
44	161R/L-44UN	-	
40	161R/L-40UN	16ER/L-40UN	
36	161R/L-36UN	16ER/L-36UN	
32	161R/L-32UN	16ER/L-32UN	
28	161R/L-28UN	16ER/L-28UN	
24	161R/L-24UN	16ER/L-24UN	
20	161RB-24UN	16ER/LB/M-24UN	
20	161R/L-20UN	16ER/L-20UN	
20	161RB/M-20UN	16ER/LB/M-20UN	
18	161R/L-18UN	16ER/L-18UN	
18	161RB/M-18UN	16ER/LB/M-18UN	
16	161R/L-16UN	16ER/L-16UN	
16	161R/LB/M-16UN	16ER/LB/M-16UN	
14	161R/L-14UN	16ER/L-14UN	
14	161R/LB/M-14UN	16ER/LB/M-14UN	
13	161R/L-13UN	16ER/L-13UN	
13	-	16ERB/M-13UN	
12	161R/L-12UN	16ER/L-12UN	
12	161R/LM-12UN	16ER/LB/M-12UN	
11.5	161R/L-11.5UN	16ER/L-11.5UN	
11	161R/L-11UN	16ER/L-11UN	
11	-	16ERB-11UN	
10	161R/L-10UN	16ER/L-10UN	
10	161RB-10UN	16ERB-10UN	
9	161R/L-9UN	16ER/L-9UN	
9	-	16ERB-9UN	
8	161R/L-8UN	16ER/L-8UN	
8	161R/LB/M-8UN	16ER/LB/M-8UN	
1/2"	7	221R/L-7UN	22ER/L-7UN
	6	221R/L-6UN	22ER/L-6UN
	5	221R/L-5UN	22ER/L-5UN
5/8"	4.5	271R/L-4.5UN	27ER/L-4.5UN
	4	271R/L-4UN	27ER/L-4UN
1/2" U	4.5	22U1R/L-4.5UN	22UER/L-4.5UN
	4	22U1R/L-4UN	22UER/L-4UN
5/8" U	3	27U1R/L-3UN	27UER/L-3UN

**Save 59%
On Any Quantity**

ACME & STUB ACME - FULL PROFILE



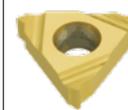
ACME

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
3/8"	16	161R/L-16ACME	16ER/L-16ACME
	14	161R/L-14ACME	16ER/L-14ACME
	12	161R/L-12ACME	16ER/L-12ACME
	10	161R/L-10ACME	16ER/L-10ACME
	8	161R/L-8ACME	16ER/L-8ACME
1/2"	6	221R/L-6ACME	22ER/L-6ACME
	5	221R/L-5ACME	22ER/L-5ACME
5/8"	4	271R/L-4ACME	27ER/L-4ACME
	3	271R/L-3ACME	27ER/L-3ACME

STUB ACME

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
3/8"	16	161R/L-16STACME	16ER/L-16STACME
	14	161R/L-14STACME	16ER/L-14STACME
	12	161R/L-12STACME	16ER/L-12STACME
	10	161R/L-10STACME	16ER/L-10STACME
	8	161R/L-8STACME	16ER/L-8STACME
1/2"	6	221R/L-6STACME	22ER/L-6STACME
	5	221R/L-5STACME	22ER/L-5STACME
5/8"	4	271R/L-4STACME	27ER/L-4STACME
	3	271R/L-3STACME	27ER/L-3STACME

NPT & NPTF - FULL PROFILE (PIPE)



NPT

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	27	061R/L-27NPT	-
3/16"	18	081R/L-18NPT	-
1/4"	27	111R/L-27NPT	-
	18	111R/L-18NPT	-
	14	111R/L-14NPT	-
	14	111R/L-14NPT	-
3/8"	27	161R/L-27NPT	16ER/L-27NPT
	18	161R/L-18NPT	16ER/L-18NPT
	14	-	16ER/LB/M-18NPT
	14	161R/L-14NPT	16ER/L-14NPT
	14	161R/LB/M-14NPT	16ER/LB/M-14NPT
	11.5	161R/L-11.5NPT	16ER/L-11.5NPT
	11.5	161R/LB/M-11.5NPT	16ER/LB/M-11.5NPT
	8	161R/L-8NPT	16ER/L-8NPT
	8	161RB/M-8NPT	16ER/LB/M-8NPT

NPTF

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	27	061R/L-27NPTF	-
3/16"	27	081R/L-27NPTF	-
	18	081R/L-18NPTF	-
1/4"	27	111R/L-27NPTF	11ER/L-27NPTF
	18	111R/L-18NPTF	11ER/L-18NPTF
	14	111R/L-14NPTF	11ER/L-14NPTF
3/8"	27	161R/L-27NPTF	16ER/L-27NPTF
	18	161R/L-18NPTF	16ER/L-18NPTF
	14	161R/L-14NPTF	16ER/L-14NPTF
	11.5	161R/L-11.5NPTF	16ER/L-11.5NPTF
	8	161R/L-8NPTF	16ER/L-8NPTF

BASS TOOL & SUPPLY, INC.

2300 Fairway Park Dr.

Houston, TX 77092

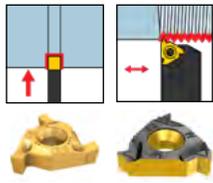
ISCARTHREAD LAYDOWN THREADING SYSTEMS



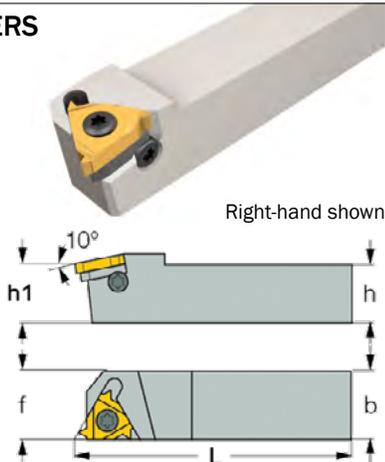
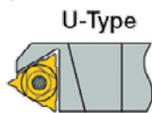
Save 59%

**On Any Quantity
of Laydown Threading Inserts**
See Previous Page

EXTERNAL TOOLHOLDERS

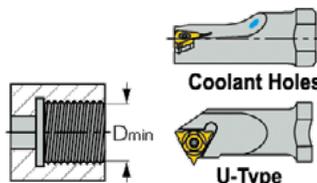
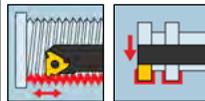


For threading use
inserts: 11, 16, 22, 27 ER/EL
For grooving use
inserts: GTMA, GTGA

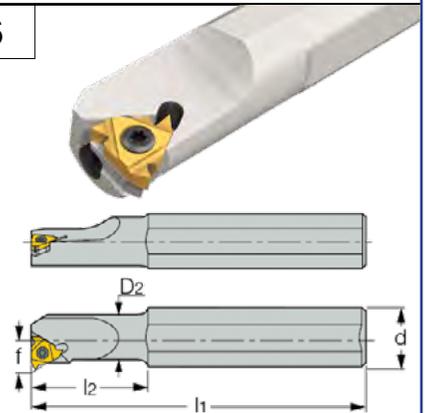


Right-hand shown

INTERNAL TOOLHOLDERS



Right-hand shown



PART #	d	D2	l1	l2	D min	f	COOLANT HOLE	Shank m.(4)	INSERT(5)
SIR/L-0205-H06CB(1)	.250	.200	4.000	1.00	.240	.17	Y	C	06 IR..
SIR/L-0205-H06-W(2)	.500	.200	4.000	.50	.250	.17	N	S	06 IR/IL..
SIR/L-0265-K08(3)	.625	.260	5.000	.71	.315	.21	N	S	08 IR/IL..
SIR-0265-K08CB(1)	.315	.260	5.000	1.20	.315	.21	Y	C	08 IR..
SIR/L-0310-K08U(3)	.625	.290	5.000	.71	.315	.21	N	S	08 UIRL..
SIR-0310-K08UCB(1)	.315	.290	5.000	1.40	.355	.25	Y	C	08 UIR..
SIR/L-0375-H11(3)	.380	.380	4.000	-	.470	.29	N	S	11 IR/IL..
SIR/L-0375-K11(3)	.620	.380	5.000	1.00	.470	.26	N	S	11 IR/IL..
SIR/L-0375-K11B(3)	.625	.380	5.000	.98	.470	.28	Y	S	11 IR/IL..
SIR-0375-M11CB(1)	.380	.380	6.000	-	.500	.29	Y	C	11 IR..
SIR/L-0500-L11(3)	.625	.500	5.500	1.25	.630	.32	N	S	11 IR/IL..
SIR-0500-P11CB(1)	.500	.500	7.000	-	.600	.33	Y	C	11 IR..
SIR/L-0500-M16(3)	.625	.500	6.000	1.25	.640	.39	N	S	16 IR/IL..
SIR/L-0500-M16B(3)	.625	.500	6.000	1.26	.640	.39	Y	S	16 IR/IL..
SIR/L-0625-P16(3)	.750	.625	7.000	1.50	.750	.45	N	S	16 IR/IL..
SIR/L-0625-P16B(3)	.750	.625	7.000	1.57	.750	.45	Y	S	16 IR/IL..
SIR-0625-R16CB(1)	.625	.625	8.000	-	.750	.46	Y	C	16 IR..
SIR/L-0750-P16	.750	.750	7.000	-	1.000	.51	N	S	16 IR/IL..
SIR-0750-P16B	.750	.750	7.000	-	.900	.90	Y	S	16 IR..
SIR/L-1000-R16	1.000	1.000	8.000	-	1.200	.65	N	S	16 IR/IL..
SIR-1000-R16B	1.000	1.000	8.000	-	1.160	.65	Y	S	16 IR..
SIR/L-1250-S16	1.250	1.250	10.000	-	1.420	.77	N	S	16 IR/IL..
SIR/L-1500-T16	1.500	1.500	12.000	-	1.650	.90	N	S	16 IR/IL..
SIR/L-0750-P22	.750	.750	7.000	-	.950	.51	N	S	22 IR/IL..
SIR/L-1000-R22	1.000	1.000	8.000	-	1.200	.71	N	S	22 IR/IL..
SIR-1000-R22B	1.000	1.000	8.000	-	1.160	.71	Y	S	22 IR..
SIR/L-1250-S22	1.250	1.250	10.000	-	1.500	.85	N	S	22 IR/IL..
SIR/L-1250-S22U	1.250	1.250	10.000	-	1.500	1.01	N	S	22 UIRL..
SIR-1500-T22U	1.500	1.500	12.000	-	1.850	1.12	N	S	22 UIRL..
SIR/L-1250-S27	1.250	1.250	10.000	-	1.560	.88	N	S	27 IR/IL..
SIR/L-1500-T27	1.500	1.500	12.000	-	1.800	1.00	N	S	27 IR/IL..
SIR/L-1250-S27U	1.250	1.250	10.000	-	1.560	.98	N	S	27 UIRL..

- B-steel shank with coolant hole, C-carbide shank without coolant hole, CB-carbide shank with coolant hole
 - All toolholders are made for 1.5 helix angle
 - For GTGA inserts, use anvil AL 16-0
- (1) Carbide shank without anvil
 - (2) Toolholder without anvil • WBMT 060102 R/L for internal turning
 - (3) Toolholder without anvil
 - (4) C-carbide, S-steel
 - (5) Right-hand inserts (IR) for right-hand tools (SIR)

PART #	DIMENSIONS			SPARE PARTS 1-000-			INSERTS (1)	
	B, h, h1	L	F	INSERT SCREW	ANVIL SCREW	TORX KEY	STYLE	I.C.
SER/L-0310-H11	0.31	4.00	0.43	S11	—	T-8/5	11ER/L	1/4
SER/L-0375-H11	0.38	4.00	0.43					
SER/L-0375-D16	0.38	2.50	0.63	S16	A16	T-10/5	16ER/L	3/8
SER/L-0500-F16	0.50	3.25	0.63					
SER/L-0625-H16	0.63	4.00	0.63					
SER/L-0750-K16	0.75	5.00	0.75					
SER/L-1000-M16	1.00	6.00	1.00					
SER/L-1250-P16	1.25	7.00	1.25					
SER/L-1000-M22	1.00	6.00	1.00					
SER/L-1250-P22	1.25	7.00	1.25					
SER/L-1500-R22	1.50	8.00	1.50					
SER/L-1250-P22U	1.25	7.00	1.25	S22	A22	T-20/5	22UER/L	1/2U
SER/L-1500-R22U	1.50	8.00	1.50					
SER/L-1000-M27	1.00	6.00	1.00	S27	A27	K27 (T-25)	27ER/L	5/8
SER/L-1250-P27	1.25	7.00	1.25					
SER/L-1500-R27	1.50	8.00	1.50					
SER/L-1250-P27U	1.25	7.00	1.25	S27	A27	K27 (T-25)	27UER/L	5/8U
SER/L-1500-R27U	1.50	8.00	1.50					

(1) Right-hand inserts (ER) for right-hand tools (SER).
Left-hand inserts (EL) for left-hand tools (SEL).