



PROMOTIONS 2025

• **LATEST INNOVATIONS**

VALID UNTIL
SEPTEMBER 30TH, 2025

• **FREE TOOLS**



PAGES: 8-9



PAGES: 11, 29-32



PAGES: 21-24

SOLIDTHREAD



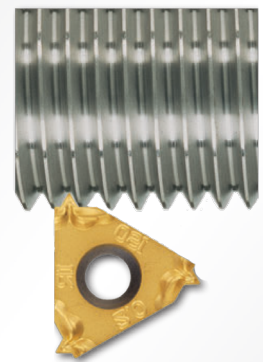
PAGES: 33-36

FLASHSOLID



PAGES: 2-7

ISCARTHREAD

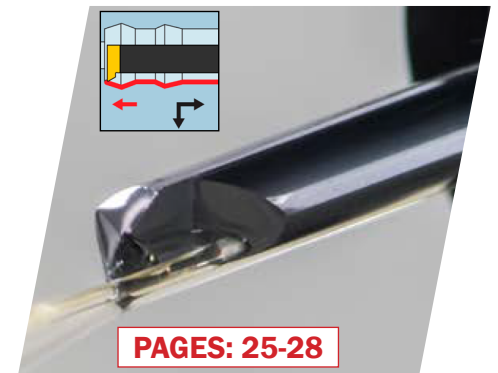


PAGES: 12-15



PAGES: 16-20

**LARGEST OFFERING OF
HIGH PERFORMANCE
CARBIDE END-MILLS AT
INCREDIBLE SAVINGS**



PAGES: 25-28

CHECK OUT OUR WEBSITE FOR OUR NEW 2025 CATALOG

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FLASHSOLID

HIGH PERFORMANCE SOLID CARBIDE ENDMILLS

THE MOST ADVANCED COATING FOR THE BEST PERFORMANCE



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Any Quantity

Save 20%



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4 of the
Same Size

Save 25%

- VARIABLE FLUTES FOR CHATTER DAMPENING
- ADVANCED MULTILAYER TiAlCN COATING
- PVD OXIDATION RESISTANT FOR PROLONGED TOOL LIFE
- 3, 4, 5, 6, & 7 FLUTES WITH LARGE ASSORTMENT OF COMPETITIVELY PRICED ITEMS WITH MANY OVERALL LENGTHS, CUTTING LENGTHS, NECK RELIEF AND CORNER RADIUS OPTIONS

- OFFERED WITH TWO STYLED SHANKS:
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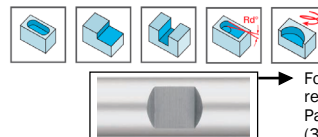
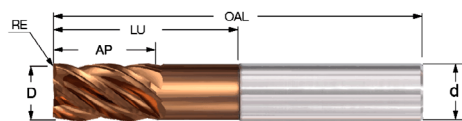
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4-FLUTE



- VARIABLE PITCH
- CHATTER FREE
- TIAIN COATED
- WITH OR WITHOUT CORNER RADIUS
- WITH OR WITHOUT RELIEVED NECKS

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

- Each item is also available with a Weldon 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 = Weldon type)

PART #	D	AP	LU	RE	d	OAL
ECI-4-125-500C0V1F.5	0.125	0.500	0.500	0.000	0.125	1.500
ECI-4-125-500C010VF1.5	0.125	0.500	0.500	0.010	0.125	1.500
ECI-4-125-500C015VF1.5	0.125	0.500	0.500	0.015	0.125	1.500
ECI-4-125-500C030VF1.5	0.125	0.500	0.500	0.030	0.125	1.500
ECI-4-187-625C0VF2	0.188	0.625	0.625	0.000	0.188	2.000
ECI-4-187-625C010VF2	0.187	0.625	0.625	0.010	0.187	2.000
ECI-4-187-625C015VF2	0.188	0.625	0.625	0.015	0.188	2.000
ECI-4-187-625C030VF2	0.188	0.625	0.625	0.030	0.188	2.000
ECI-4-250-375C0VF2	0.250	0.375	0.375	0.000	0.250	2.000
ECI-4-250-375C010VF2	0.250	0.375	0.375	0.010	0.250	2.000
ECI-4-250-375C015VF2	0.250	0.375	0.375	0.015	0.250	2.000
ECI-4-250-375C030VF2	0.250	0.375	0.375	0.030	0.250	2.000
ECI-4-250-375C06VF2	0.250	0.375	0.375	0.060	0.250	2.000
ECI-4-250-500/1.25C0VF3	0.250	0.500	1.250	0.000	0.250	3.000
ECI-4-250-500/1.25C010VF3	0.250	1.250	0.500	0.010	0.250	3.000
ECI-4-250-500C015VF3	0.250	0.500	1.250	0.015	0.250	3.000
ECI-4-250-500/1.25C03VF3	0.250	0.500	1.250	0.030	0.250	3.000
ECI-4-250-500/1.25C06VF3	0.250	0.500	1.250	0.060	0.250	3.000
ECI-4-250-500/2.12C0VF4	0.250	0.500	2.125	0.000	0.250	4.000
ECI-4-250-500/2.12C01VF4	0.250	0.500	2.125	0.015	0.250	4.000
ECI-4-250-500/2.12C03VF4	0.250	0.500	2.125	0.030	0.250	4.000
ECI-4-250-500/2.12C06VF4	0.250	0.500	2.125	0.060	0.250	4.000
ECI-4-250-750C0VF2.5	0.250	0.750	0.750	0.000	0.250	2.500
ECI-4-250-750C010VF2.5	0.250	0.750	0.750	0.010	0.250	2.500
ECI-4-250-750C015VF2.5	0.250	0.750	0.750	0.015	0.250	2.500
ECI-4-250-750C030VF2.5	0.250	0.750	0.750	0.030	0.250	2.500
ECI-4-250-750C06VF2.5	0.250	0.750	0.750	0.060	0.250	2.500
ECI-4-250-1.0C0VF3	0.250	1.000	1.000	0.000	0.250	3.000
ECI-4-250-1.0C010VF3	0.250	1.000	1.000	0.010	0.250	3.000
ECI-4-250-1.0C015VF3	0.250	1.000	1.000	0.015	0.250	3.000
ECI-4-250-1.0C03VF3	0.250	1.000	1.000	0.030	0.250	3.000
ECI-4-250-1.0C06VF3	0.250	1.000	1.000	0.060	0.250	3.000
ECI-4-250-1.25C0VF4	0.250	1.250	1.250	0.000	0.250	4.000
ECI-4-250-1.25C01VF4	0.250	1.250	1.250	0.015	0.250	4.000
ECI-4-250-1.25C03VF4	0.250	1.250	1.250	0.030	0.250	4.000
ECI-4-250-1.25C06VF4	0.250	1.250	1.250	0.060	0.250	4.000
ECI-4-250-1.75C0VF4	0.250	1.750	1.750	0.000	0.250	4.000
ECI-4-250-1.75C01VF4	0.250	1.750	1.750	0.015	0.250	4.000
ECI-4-250-1.75C03VF4	0.250	1.750	1.750	0.030	0.250	4.000
ECI-4-250-1.75C06VF4	0.250	1.750	1.750	0.060	0.250	4.000
ECI-4-312-500C0VF2	0.312	0.500	0.500	0.000	0.312	2.000
ECI-4-312-500C010VF2	0.312	0.500	0.500	0.010	0.312	2.000
ECI-4-312-500C015VF2	0.312	0.500	0.500	0.015	0.312	2.000
ECI-4-312-500C030VF2	0.313	0.500	0.500	0.030	0.313	2.000
ECI-4-312-500C06VF2	0.313	0.500	0.500	0.060	0.313	2.000
ECI-4-312-875C0VF2.5	0.313	0.875	0.875	0.000	0.313	2.500
ECI-4-312-875C010VF2.5	0.312	0.875	0.875	0.010	0.312	2.500
ECI-4-312-875C015VF2.5	0.313	0.875	0.875	0.015	0.313	2.500
ECI-4-312-875C030VF2.5	0.313	0.875	0.875	0.030	0.313	2.500
ECI-4-312-875C06VF2.5	0.313	0.875	0.875	0.060	0.313	2.500
ECI-4-312-1.0C0VF3	0.313	1.000	1.000	0.000	0.313	3.000
ECI-4-312-1.0C010VF3	0.312	1.000	1.000	0.010	0.312	3.000
ECI-4-312-1.0C015VF3	0.313	1.000	1.000	0.015	0.313	3.000
ECI-4-312-1.0C03VF3	0.313	1.000	1.000	0.030	0.313	3.000
ECI-4-312-1.0C06VF3	0.313	1.000	1.000	0.060	0.313	3.000
ECI-4-312-1.25C0VF4	0.313	1.250	1.250	0.000	0.313	4.000
ECI-4-312-1.25C01VF4	0.313	1.250	1.250	0.015	0.313	4.000
ECI-4-312-1.25C03VF4	0.313	1.250	1.250	0.030	0.313	4.000
ECI-4-312-1.25C06VF4	0.313	1.250	1.250	0.060	0.313	4.000
ECI-4-312-1.62C0VF4	0.313	1.625	1.625	0.000	0.313	4.000
ECI-4-312-1.62C01VF4	0.313	1.625	1.625	0.015	0.313	4.000
ECI-4-312-1.62C03VF4	0.313	1.625	1.625	0.030	0.313	4.000
ECI-4-312-1.62C06VF4	0.313	1.625	1.625	0.060	0.313	4.000
ECI-4-375-500C0VF2	0.375	0.500	0.500	0.000	0.375	2.000
ECI-4-375-500C010VF2	0.375	0.500	0.500	0.010	0.375	2.000
ECI-4-375-500C015VF2	0.375	0.500	0.500	0.015	0.375	2.000
ECI-4-375-500C030VF2	0.375	0.500	0.500	0.030	0.375	2.000
ECI-4-375-500C06VF2	0.375	0.500	0.500	0.060	0.375	2.000
ECI-4-375-750/1.25C0VF3	0.375	0.750	1.250	0.000	0.375	3.000
ECI-4-375-750/1.25C010VF3	0.375	1.250	0.750	0.010	0.375	3.000
ECI-4-375-750/1.25C015VF3	0.375	0.750	1.250	0.015	0.375	3.000
ECI-4-375-750/1.25C03VF3	0.375	0.750	1.250	0.030	0.375	3.000
ECI-4-375-750/1.25C06VF3	0.375	0.750	1.250	0.060	0.375	3.000
ECI-4-375-750/2.12C0VF4	0.375	0.750	2.125	0.000	0.375	4.000
ECI-4-375-750/2.12C01VF4	0.375	2.125	0.750	0.010	0.375	4.000
ECI-4-375-750/2.12C015VF4	0.375	0.750	2.125	0.015	0.375	4.000
ECI-4-375-750/2.12C03VF4	0.375	0.750	2.125	0.030	0.375	4.000
ECI-4-375-750/2.12C06VF4	0.375	0.750	2.125	0.060	0.375	4.000
ECI-4-375-1.0C0VF2.5	0.375	1.000	1.000	0.000	0.375	2.500
ECI-4-375-1.0C01VF2.5	0.375	1.000	1.000	0.010	0.375	2.500
ECI-4-375-1.0C015VF2.5	0.375	1.000	1.000	0.015	0.375	2.500
ECI-4-375-1.0C03VF2.5	0.375	1.000	1.000	0.030	0.375	2.500
ECI-4-375-1.0C06VF2.5	0.375	1.000	1.000	0.060	0.375	2.500
ECI-4-375-1.5C0VF4	0.375	1.500	1.500	0.000	0.375	4.000
ECI-4-375-1.5C01VF4	0.375	1.500	1.500	0.015	0.375	4.000
ECI-4-375-1.5C03VF4	0.375	1.500	1.500	0.030	0.375	4.000
ECI-4-375-1.5C06VF4	0.375	1.500	1.500	0.060	0.375	4.000
ECI-4-375-2.5C0VF5	0.375	2.500	2.500	0.000	0.375	5.000
ECI-4-375-2.5C01VF5	0.375	2.500	2.500	0.015	0.375	5.000
ECI-4-375-2.5C03VF5	0.375	2.500	2.500	0.030	0.375	5.000
ECI-4-375-2.5C06VF5	0.375	2.500	2.500	0.060	0.375	5.000
ECI-4-375-3.0C0VF6	0.437	0.625	0.625	0.000	0.437	2.750
ECI-4-375-3.0C01VF2.5	0.437	0.625	0.625	0.015	0.437	2.750
ECI-4-375-3.0C03VF2.5	0.437	0.625	0.625	0.030	0.437	2.750
ECI-4-375-3.0C06VF2.5	0.437	0.625	0.625	0.060	0.437	2.750



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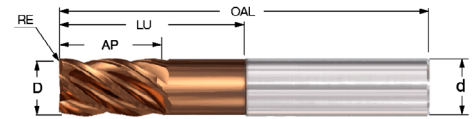
FLASHSOLID SOLID CARBIDE ENDMILLS

4-FLUTE

PART #	D	AP	LU	RE	d	OAL
ECI-4-750-3.0C125VF6	0.750	3.000	3.000	0.1250	0.750	6.00
ECI-4-750-4.0C03VF7	0.750	4.000	4.000	0.0300	0.750	7.00
ECI-4-750-4.0C015VF7	0.750	4.000	4.000	0.0150	0.750	7.00
ECI-4-750-4.0C03VF7	0.750	4.000	4.000	0.0300	0.750	7.00
ECI-4-750-4.0C06VF7	0.750	4.000	4.000	0.0600	0.750	7.00
ECI-4-750-4.0C09VF7	0.750	4.000	4.000	0.0900	0.750	7.00
ECI-4-750-4.0C125VF7	0.750	4.000	4.000	0.1250	0.750	7.00
ECI-4-1.0-1.5C03VF4	1.000	1.500	1.500	0.0300	1.000	4.00
ECI-4-1.0-1.5C015VF4	1.000	1.500	1.500	0.0150	1.000	4.00
ECI-4-1.0-1.5C03VF4	1.000	1.500	1.500	0.0300	1.000	4.00
ECI-4-1.0-1.5C06VF4	1.000	1.500	1.500	0.0600	1.000	4.00
ECI-4-1.0-1.5C09VF4	1.000	1.500	1.500	0.0900	1.000	4.00
ECI-4-1.0-1.5C125VF4	1.000	1.500	1.500	0.1250	1.000	4.00
ECI-4-1.0-1.5/3.0C03VF5	1.000	1.500	3.000	0.0300	1.000	5.00
ECI-4-1.0-1.5/3.0C015VF5	1.000	1.500	3.000	0.0150	1.000	5.00
ECI-4-1.0-1.5/3.0C03VF5	1.000	1.500	3.000	0.0300	1.000	5.00
ECI-4-1.0-1.5/3.0C06VF5	1.000	1.500	3.000	0.0600	1.000	5.00
ECI-4-1.0-1.5/3.0C09VF5	1.000	1.500	3.000	0.0900	1.000	5.00
ECI-4-1.0-1.5/3.0C125VF5	1.000	1.500	3.000	0.1250	1.000	5.00
ECI-4-1.0-1.5/4.0C03VF6	1.000	1.500	4.000	0.0300	1.000	6.00

CONTINUED FROM PREVIOUS PAGE

PART #	D	AP	LU	RE	d	OAL
ECI-4-1.0-1.5/4.0C03VF6	1.000	1.500	4.000	0.0300	1.000	6.00
ECI-4-1.0-1.5/4.0C06VF6	1.000	1.500	4.000	0.0600	1.000	6.00
ECI-4-1.0-1.5/4.0C09VF6	1.000	1.500	4.000	0.0900	1.000	6.00
ECI-4-1.0-1.5/4.0C125VF6	1.000	1.500	4.000	0.1250	1.000	6.00
ECI-4-1.0-1.5/5.0C03VF7	1.000	1.500	5.000	0.0300	1.000	7.00
ECI-4-1.0-1.5/5.0C06VF7	1.000	1.500	5.000	0.0600	1.000	7.00
ECI-4-1.0-1.5/5.0C09VF7	1.000	1.500	5.000	0.0900	1.000	7.00
ECI-4-1.0-1.5/5.0C125VF7	1.000	1.500	5.000	0.1250	1.000	7.00
ECI-4-1.0-2.0C03VF4.5	1.000	2.000	2.000	0.0300	1.000	4.50
ECI-4-1.0-2.0C06VF4.5	1.000	2.000	2.000	0.0600	1.000	4.50
ECI-4-1.0-2.0C09VF4.5	1.000	2.000	2.000	0.0900	1.000	4.50
ECI-4-1.0-2.0C125VF4.5	1.000	2.000	2.000	0.1250	1.000	4.50
ECI-4-1.0-2.25C03VF5	1.000	2.250	2.250	0.0300	1.000	5.00
ECI-4-1.0-2.25C06VF5	1.000	2.250	2.250	0.0600	1.000	5.00



PART #	D	AP	LU	RE	d	OAL
ECI-4-1.0-2.25C03VF5	1.000	2.250	2.250	0.0300	1.000	5.00
ECI-4-1.0-2.25C06VF5	1.000	2.250	2.250	0.0600	1.000	5.00
ECI-4-1.0-2.25C09VF5	1.000	2.250	2.250	0.0900	1.000	5.00
ECI-4-1.0-2.25C125VF5	1.000	2.250	2.250	0.1250	1.000	5.00
ECI-4-1.0-3.0C03VF6	1.000	3.000	3.000	0.0300	1.000	6.00
ECI-4-1.0-3.0C06VF6	1.000	3.000	3.000	0.0600	1.000	6.00
ECI-4-1.0-3.0C09VF6	1.000	3.000	3.000	0.0900	1.000	6.00
ECI-4-1.0-3.0C125VF6	1.000	3.000	3.000	0.1250	1.000	6.00
ECI-4-1.0-4.0C03VF7	1.000	4.000	4.000	0.0300	1.000	7.00
ECI-4-1.0-4.0C06VF7	1.000	4.000	4.000	0.0600	1.000	7.00
ECI-4-1.0-4.0C09VF7	1.000	4.000	4.000	0.0900	1.000	7.00
ECI-4-1.0-4.0C125VF7	1.000	4.000	4.000	0.1250	1.000	7.00

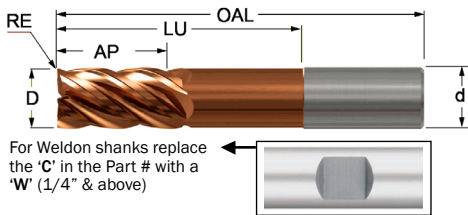


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FLASHSOLID SOLID CARBIDE ENDMILLS

5-FLUTE

PART #	D	AP	LU	RE	d	OAL
ECI-5-25-5C0VF2	0.250	0.500	0.500	0.000	0.250	2.0
ECI-5-25-5C.010VF2	0.250	0.500	0.500	0.010	0.250	2.0
ECI-5-25-5C.015VF2	0.250	0.500	0.500	0.015	0.250	2.0
ECI-5-25-5C.03VF2	0.250	0.500	0.500	0.030	0.250	2.0
ECI-5-25-5C.06VF2	0.250	0.500	0.500	0.060	0.250	2.0
ECI-5-25-5/2.1C03VF4	0.250	0.500	2.125	0.030	0.250	4.0
ECI-5-25-5/2.1C.010VF4	0.250	0.500	2.125	0.010	0.250	4.0
ECI-5-25-5/2.1C.015VF4	0.250	0.500	2.125	0.015	0.250	4.0
ECI-5-25-5/2.1C.03VF4	0.250	0.500	2.125	0.030	0.250	4.0
ECI-5-25-5/2.1C.06VF4	0.250	0.500	2.125	0.060	0.250	4.0
ECI-5-25-75C0VF2.5	0.250	0.750	0.750	0.000	0.250	2.5
ECI-5-25-75C.010VF2.5	0.250	0.750	0.750	0.010	0.250	2.5
ECI-5-25-75C.015VF2.5	0.250	0.750	0.750	0.015	0.250	2.5
ECI-5-25-75C.03VF2.5	0.250	0.750	0.750	0.030	0.250	2.5
ECI-5-25-75C.06VF2.5	0.250	0.750	0.750	0.060	0.250	2.5
ECI-5-25-1C0VF3	0.250	1.000	1.000	0.000	0.250	3.0
ECI-5-25-1C.010VF3	0.250	1.000	1.000	0.010	0.250	3.0
ECI-5-25-1C.015VF3	0.250	1.000	1.000	0.015	0.250	3.0
ECI-5-25-1C.03VF3	0.250	1.000	1.000	0.030	0.250	3.0
ECI-5-312-1.25C015SE3	0.312	1.250	1.250	0.015	0.312	3.0
ECI-5-375-5C0VF2	0.375	0.500	0.500	0.000	0.375	2.0
ECI-5-375-5C.010VF2	0.375	0.500	0.500	0.010	0.375	2.0
ECI-5-375-5C.015VF2	0.375	0.500	0.500	0.015	0.375	2.0
ECI-5-375-5C.03VF2	0.375	0.500	0.500	0.030	0.375	2.0
ECI-5-375-5C.06VF2	0.375	0.500	0.500	0.060	0.375	2.0
ECI-5-375-5C.09VF2	0.375	0.500	0.500	0.090	0.375	2.0
ECI-5-375-5C.125VF2	0.375	0.500	0.500	0.125	0.375	2.0
ECI-5-375-75/2.1C0VF4	0.375	0.750	2.125	0.000	0.375	4.0
ECI-5-375-75/2.1C.010VF4	0.375	0.750	2.125	0.010	0.375	4.0
ECI-5-375-75/2.1C.015VF4	0.375	0.750	2.125	0.015	0.375	4.0
ECI-5-375-75/2.1C.03VF4	0.375	0.750	2.125	0.030	0.375	4.0
ECI-5-375-75/2.1C.06VF4	0.375	0.750	2.125	0.060	0.375	4.0
ECI-5-375-1C0VF2.5	0.375	1.000	1.000	0.000	0.375	2.5
ECI-5-375-1C0VF3	0.375	1.000	1.000	0.000	0.375	3.0
ECI-5-375-1C.010VF2.5	0.375	1.000	1.000	0.010	0.375	2.5
ECI-5-375-1C.015VF2.5	0.375	1.000	1.000	0.015	0.375	2.5
ECI-5-375-1C.03VF2.5	0.375	1.000	1.000	0.030	0.375	2.5
ECI-5-375-1C.06VF2.5	0.375	1.000	1.000	0.060	0.375	2.5
ECI-5-375-1C.09VF2.5	0.375	1.000	1.000	0.090	0.375	2.5
ECI-5-375-1C.125VF2.5	0.375	1.000	1.000	0.125	0.375	2.5
ECI-5-375-1C.125VF3	0.375	1.000	1.000	0.125	0.375	3.0
ECI-5-375-1.5C0VF4	0.375	1.500	1.500	0.000	0.375	4.0
ECI-5-375-1.5C.015VF4	0.375	1.500	1.500	0.015	0.375	4.0
ECI-5-375-1.5C.03VF4	0.375	1.500	1.500	0.030	0.375	4.0
ECI-5-375-1.5C.06VF4	0.375	1.500	1.500	0.060	0.375	4.0
ECI-5-375-1.5C.09VF4	0.375	1.500	1.500	0.090	0.375	4.0
ECI-5-375-1.5C.125VF4	0.375	1.500	1.500	0.125	0.375	4.0
ECI-5-5-63C0VF2.5	0.500	0.625	0.625	0.000	0.500	2.5
ECI-5-5-63C.010VF2.5	0.500	0.625	0.625	0.010	0.500	2.5
ECI-5-5-63C.015VF2.5	0.500	0.625	0.625	0.015	0.500	2.5
ECI-5-5-63C.03VF2.5	0.500	0.625	0.625	0.030	0.500	2.5
ECI-5-5-63C.06VF2.5	0.500	0.625	0.625	0.060	0.500	2.5
ECI-5-5-63C.09VF2.5	0.500	0.625	0.625	0.090	0.500	2.5
ECI-5-5-63C.125VF2.5	0.500	0.625	0.625	0.125	0.500	2.5
ECI-5-5-88/1.38C0VF3	0.500	0.875	1.375	0.000	0.500	3.0
ECI-5-5-88/1.38C.015VF3	0.500	0.875	1.375	0.015	0.500	3.0
ECI-5-5-88/1.38C.03VF3	0.500	0.875	1.375	0.030	0.500	3.0
ECI-5-5-88/1.38C.06VF3	0.500	0.875	1.375	0.060	0.500	3.0
ECI-5-5-88/1.38C.09VF3	0.500	0.875	1.375	0.090	0.500	3.0
ECI-5-5-88/1.38C.125VF3	0.500	0.875	1.375	0.125	0.500	3.0
ECI-5-5-88/2.1C0VF4	0.500	0.875	2.125	0.000	0.500	4.0
ECI-5-5-88/2.1C.015VF4	0.500	0.875	2.125	0.015	0.500	4.0
ECI-5-5-88/2.1C.03VF4	0.500	0.875	2.125	0.030	0.500	4.0
ECI-5-5-88/2.1C.06VF4	0.500	0.875	2.125	0.060	0.500	4.0
ECI-5-5-88/2.1C.09VF4	0.500	0.875	2.125	0.090	0.500	4.0
ECI-5-5-88/2.1C.125VF4	0.500	0.875	2.125	0.125	0.500	4.0



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

PART #	D	AP	LU	RE	d	OAL
ECI-5-5-88/3.13CVF5.	0.500	0.875	3.125	0.000	0.500	5.0
ECI-5-5-88/3.1C.015VF5.	0.500	0.875	3.125	0.015	0.500	5.0
ECI-5-5-88/3.13C.06VF5.	0.500	0.875	3.125	0.060	0.500	5.0
ECI-5-5-88/3.13C.09VF5.	0.500	0.875	3.125	0.090	0.500	5.0
ECI-5-5-88/3.1C.125VF5.	0.500	0.875	3.125	0.125	0.500	5.0
ECI-5-5-88/4.13CVF6.	0.500	0.875	4.125	0.000	0.500	6.0
ECI-5-5-88/4.1C.015VF6.	0.500	0.875	4.125	0.015	0.500	6.0
ECI-5-5-88/4.13C.03VF6.	0.500	0.875	4.125	0.030	0.500	6.0
ECI-5-5-88/4.13C.06VF6.	0.500	0.875	4.125	0.060	0.500	6.0
ECI-5-5-88/4.13C.09VF6.	0.500	0.875	4.125	0.090	0.500	6.0
ECI-5-5-88/4.1C.125VF6.	0.500	0.875	4.125	0.125	0.500	6.0
ECI-5-5-1.25C0VF3.	0.500	1.250	1.250	0.000	0.500	3.0
ECI-5-5-1.25C.010VF3.	0.500	1.250	1.250	0.010	0.500	3.0
ECI-5-5-1.25C.03VF3.	0.500	1.250	1.250	0.030	0.500	3.0
ECI-5-5-1.25C.06VF3.	0.500	1.250	1.250	0.060	0.500	3.0
ECI-5-5-1.25C.09VF3.	0.500	1.250	1.250	0.090	0.500	3.0
ECI-5-5-1.25C.125VF3.	0.500	1.250	1.250	0.125	0.500	3.0
ECI-5-5-1.63C0VF4.	0.500	1.625	1.625	0.000	0.500	4.0
ECI-5-5-1.63C.010VF4.	0.500	1.625	1.625	0.010	0.500	4.0
ECI-5-5-1.63C.015VF4.	0.500	1.625	1.625	0.015	0.500	4.0
ECI-5-5-1.63C.03VF4.	0.500	1.625	1.625	0.030	0.500	4.0
ECI-5-5-1.63C.06VF4.	0.500	1.625	1.625	0.060	0.500	4.0
ECI-5-5-1.63C.09VF4.	0.500	1.625	1.625	0.090	0.500	4.0
ECI-5-5-1.63C.125VF4.	0.500	1.625	1.625	0.125	0.500	4.0
ECI-5-5-2.C0VF4.	0.500	2.000	2.000	0.000	0.500	4.0
ECI-5-5-2.C.010VF4.	0.500	2.000	2.000	0.010	0.500	4.0
ECI-5-5-2.C.015VF4.	0.500	2.000	2.000	0.015	0.500	4.0
ECI-5-5-2.C.03VF4.	0.500	2.000	2.000	0.030	0.500	4.0
ECI-5-5-2.C.06VF4.	0.500	2.000	2.000	0.060	0.500	4.0
ECI-5-5-2.C.09VF4.	0.500	2.000	2.000	0.090	0.500	4.0
ECI-5-5-2.C.125VF4.	0.500	2.000	2.000	0.125	0.500	4.0
ECI-5-5-2.5C0VF5.	0.500	2.500	2.500	0.000	0.500	5.0
ECI-5-5-2.5C.015VF5.	0.500	2.500	2.500	0.015	0.500	5.0
ECI-5-5-2.5C.03VF5.	0.500	2.500	2.500	0.030	0.500	5.0
ECI-5-5-2.5C.06VF5.	0.500	2.500	2.500	0.060	0.500	5.0
ECI-5-5-2.5C.09VF5.	0.500	2.500	2.500	0.090	0.500	5.0
ECI-5-5-2.5C.125VF5.	0.500	2.500	2.500	0.125	0.500	5.0
ECI-5-5.13C0VF6.	0.500	3.125	3.125	0.000	0.500	6.0
ECI-5-5.13C.015VF6.	0.500	3.125	3.125	0.015	0.500	6.0
ECI-5-5.13C.03VF6.	0.500	3.125	3.125	0.030	0.500	6.0
ECI-5-5.13C.06VF6.	0.500	3.125	3.125	0.060	0.500	6.0
ECI-5-5.13C.09VF6.	0.500	3.125	3.125	0.090	0.500	6.0
ECI-5-5.13C.125VF6.	0.500	3.125	3.125	0.125	0.500	6.0
ECI-5-625-75C0VF3.	0.625	0.750	0.750	0.000	0.625	3.0
ECI-5-625-75C.010VF3.	0.625	0.750	0.750	0.010	0.625	3.0
ECI-5-625-75C.015VF3.	0.625	0.750	0.750	0.015	0.625	3.0
ECI-5-625-75C.03VF3.	0.625	0.750	0.750	0.030	0.625	3.0
ECI-5-625-75C.06VF3.	0.625	0.750	0.750	0.060	0.625	3.0
ECI-5-625-75C.09VF3.	0.625	0.750	0.750	0.090	0.625	3.0
ECI-5-625-75C.125VF3.	0.625	0.750	0.750	0.125	0.625	3.0
ECI-5-625-1./2.CVF4.	0.625	1.000	2.000	0.000	0.625	4.0
ECI-5-625-1./2.C.015VF4.	0.625	1.000	2.000	0.015	0.625	4.0
ECI-5-625-1./2.C.03VF4.	0.625	1.000	2.000	0.030	0.625	4.0
ECI-5-625-1./2.C.06VF4.	0.625	1.000	2.000	0.060	0.625	4.0
ECI-5-625-1./2.C.09VF4.	0.625	1.000	2.000	0.090	0.625	4.0
ECI-5-625-1./2.C.125VF4.	0.625	1.000	2.000	0.125	0.625	4.0
ECI-5-625-1./3.CVF5.	0.625	1.000	3.000	0.000	0.625	5.0
ECI-5-625-1./3.C.015VF5.	0.625	1.000	3.000	0.015	0.625	5.0

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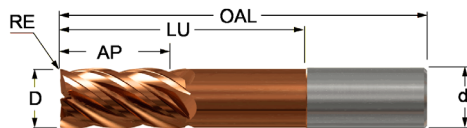


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5-FLUTE

SOLID CARBIDE ENDMILLS

CONTINUED FROM PREVIOUS PAGE



PART #	D	AP	LU	RE	d	OAL
ECI-5-75-2.25C.09VF5.	0.750	2.250	2.250	0.090	0.750	5.000
ECI-5-75-2.25C.125VF5.	0.750	2.250	2.250	0.125	0.750	5.000
ECI-5-75-3.25C.03VF6.	0.750	3.250	3.250	0.030	0.750	6.000
ECI-5-75-3.25C.015VF6.	0.750	3.250	3.250	0.015	0.750	6.000
ECI-5-75-3.25C.03VF6.	0.750	3.250	3.250	0.030	0.750	6.000
ECI-5-75-3.25C.06VF6.	0.750	3.250	3.250	0.060	0.750	6.000
ECI-5-75-3.25C.09VF6.	0.750	3.250	3.250	0.090	0.750	6.000
ECI-5-75-3.25C.125VF6.	0.750	3.250	3.250	0.125	0.750	6.000
ECI-5-75-4.13C.03VF7.	0.750	4.125	4.125	0.030	0.750	7.000
ECI-5-75-4.13C.015VF7.	0.750	4.125	4.125	0.015	0.750	7.000
ECI-5-75-4.13C.03VF7.	0.750	4.125	4.125	0.030	0.750	7.000
ECI-5-75-4.13C.06VF7.	0.750	4.125	4.125	0.060	0.750	7.000
ECI-5-75-4.13C.09VF7.	0.750	4.125	4.125	0.090	0.750	7.000
ECI-5-75-4.13C.125VF7.	0.750	4.125	4.125	0.125	0.750	7.000
ECI-5-1-1.5C.015VF4.	1.000	1.500	1.500	0.010	1.000	4.000
ECI-5-1-1.5C.03VF4.	1.000	1.500	1.500	0.030	1.000	4.000
ECI-5-1-1.5C.06VF4.	1.000	1.500	1.500	0.060	1.000	4.000
ECI-5-1-1.5C.09VF4.	1.000	1.500	1.500	0.090	1.000	4.000
ECI-5-1-1.5C.125VF4.	1.000	1.500	1.500	0.125	1.000	4.000
ECI-5-1-1.5/3.CVF5.	1.000	1.500	3.000	0.000	1.000	5.000
ECI-5-1-1.5/3.C.015VF5.	1.000	1.500	3.000	0.015	1.000	5.000

PART #	D	AP	LU	RE	d	OAL
ECI-5-1-1.5/3.C.03VF5.	1.000	1.500	3.000	0.030	1.000	5.000
ECI-5-1-1.5/3.C.06VF5.	1.000	1.500	3.000	0.060	1.000	5.000
ECI-5-1-1.5/3.C.09VF5.	1.000	1.500	3.000	0.090	1.000	5.000
ECI-5-1-1.5/3.C.125VF5.	1.000	1.500	3.000	0.125	1.000	5.000
ECI-5-1-1.5/4.CVF6.	1.000	1.500	4.000	0.000	1.000	6.000
ECI-5-1-1.5/4.C.015VF6.	1.000	1.500	4.000	0.015	1.000	6.000
ECI-5-1-1.5/4.C.03VF6.	1.000	1.500	4.000	0.030	1.000	6.000
ECI-5-1-1.5/4.C.06VF6.	1.000	1.500	4.000	0.060	1.000	6.000
ECI-5-1-1.5/4.C.09VF6.	1.000	1.500	4.000	0.090	1.000	6.000
ECI-5-1-1.5/4.C.125VF6.	1.000	1.500	4.000	0.125	1.000	6.000
ECI-5-1-1.5/5.CVF7.	1.000	1.500	5.000	0.000	1.000	7.000
ECI-5-1-1.5/5.C.015VF7.	1.000	1.500	5.000	0.015	1.000	7.000
ECI-5-1-1.5/5.C.03VF7.	1.000	1.500	5.000	0.030	1.000	7.000
ECI-5-1-1.5/5.C.06VF7.	1.000	1.500	5.000	0.060	1.000	7.000

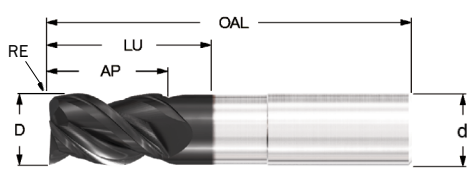
PART #	D	AP	LU	RE	d	OAL
ECI-5-1-1.5/5.C.09VF7.	1.000	1.500	5.000	0.090	1.000	7.000
ECI-5-1-1.5/5.C.125VF7.	1.000	1.500	5.000	0.125	1.000	7.000
ECI-5-1-2.C.03VF4.5	1.000	2.000	2.000	0.000	1.000	4.500
ECI-5-1-2.C.015VF4.5	1.000	2.000	2.000	0.015	1.000	4.500
ECI-5-1-2.C.03VF4.5	1.000	2.000	2.000	0.030	1.000	4.500
ECI-5-1-2.C.06VF4.5	1.000	2.000	2.000	0.060	1.000	4.500
ECI-5-1-2.C.09VF4.5	1.000	2.000	2.000	0.090	1.000	4.500
ECI-5-1-2.C.125VF4.5	1.000	2.000	2.000	0.125	1.000	4.500
ECI-5-1-2.25C.03VF5.	1.000	2.250	2.250	0.000	1.000	5.000
ECI-5-1-2.25C.015VF5.	1.000	2.250	2.250	0.015	1.000	5.000
ECI-5-1-2.25C.03VF5.	1.000	2.250	2.250	0.030	1.000	5.000
ECI-5-1-2.25C.06VF5.	1.000	2.250	2.250	0.060	1.000	5.000
ECI-5-1-2.25C.09VF5.	1.000	2.250	2.250	0.090	1.000	5.000
ECI-5-1-2.25C.125VF5.	1.000	2.250	2.250	0.125	1.000	5.000
ECI-5-1-3.25C.03VF6.	1.000	3.250	3.250	0.000	1.000	6.000
ECI-5-1-3.25C.010VF6.	1.000	3.250	3.250	0.010	1.000	6.000
ECI-5-1-3.25C.015VF6.	1.000	3.250	3.250	0.015	1.000	6.000
ECI-5-1-3.25C.03VF6.	1.000	3.250	3.250	0.030	1.000	6.000
ECI-5-1-3.25C.06VF6.	1.000	3.250	3.250	0.060	1.000	6.000
ECI-5-1-3.25C.09VF6.	1.000	3.250	3.250	0.090	1.000	6.000
ECI-5-1-3.25C.125VF6.	1.000	3.250	3.250	0.125	1.000	6.000
ECI-5-1-4.13C.03VF7.	1.000	4.125	4.125	0.000	1.000	7.000
ECI-5-1-4.13C.010VF7.	1.000	4.125	4.125	0.010	1.000	7.000
ECI-5-1-4.13C.015VF7.	1.000	4.125	4.125	0.015	1.000	7.000
ECI-5-1-4.13C.03VF7.	1.000	4.125	4.125	0.030	1.000	7.000
ECI-5-1-4.13C.06VF7.	1.000	4.125	4.125	0.060	1.000	7.000
ECI-5-1-4.13C.09VF7.	1.000	4.125	4.125	0.090	1.000	7.000
ECI-5-1-4.13C.125VF7.	1.000	4.125	4.125	0.125	1.000	7.000



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3-FLUTE

SOLID CARBIDE ENDMILLS



PART #	D	AP	LU	RE	d	OAL
ECAI-B3-125-3CR01-5EC	0.125	0.250	0.250	0.000	0.125	1.500
ECAI-B3-125-3CR015-1.5	0.125	0.250	0.250	0.015	0.125	1.500
ECAI-B3-125-5CR01-5EC	0.125	0.500	0.500	0.000	0.125	1.500
ECAI-B3-125-5CR015-1.5	0.125	0.500	0.500	0.015	0.125	1.500
ECAI-B3-187-3CR01-2EC	0.187	0.315	0.320	0.000	0.187	2.000
ECAI-B3-187-3CR015-2EC	0.187	0.315	0.320	0.015	0.187	2.000
ECAI-B3-187-6CR01-2EC	0.187	0.562	0.570	0.000	0.187	2.000
ECAI-B3-187-6CR015-2EC	0.187	0.562	0.570	0.015	0.187	2.000
ECAI-B3-25-3CR01-2EC	0.250	0.375	0.375	0.000	0.250	2.000
ECAI-B3-25-4CR015-2EC	0.250	0.375	0.375	0.015	0.250	2.000
ECAI-B3-25-5CR01-2EC	0.250	0.375	0.375	0.030	0.250	2.000
ECAI-B3-25-5/1.2CR01-3EC	0.250	0.500	1.250	0.000	0.250	3.000
ECAI-B3-25-5/1.3CR15-3	0.250	0.500	1.250	0.015	0.250	3.000
ECAI-B3-25-5/1.3CR03-3	0.250	0.500	1.250	0.030	0.250	3.000
ECAI-B3-25-5/1.3CR06-3	0.250	0.500	1.250	0.060	0.250	3.000
ECAI-B3-25-5/2.1CR04-4EC	0.250	0.500	1.250	0.000	0.250	4.000
ECAI-B3-25-5/2CR015-4EC	0.250	0.500	1.250	0.015	0.250	4.000
ECAI-B3-25-5/2.1CR03-4E	0.250	0.500	1.250	0.030	0.250	4.000
ECAI-B3-25-5/2.1CR06-4E	0.250	0.500	1.250	0.060	0.250	4.000
ECAI-B3-25-75CR01-2.5EC	0.250	0.750	0.750	0.000	0.250	2.500
ECAI-B3-25-8CR015-2.5EC	0.250	0.750	0.750	0.015	0.250	2.500
ECAI-B3-25-8CR03-2.5EC	0.250	0.750	0.750	0.030	0.250	2.500
ECAI-B3-25-1CR01-3EC	0.250	1.000	1.000	0.000	0.250	3.000
ECAI-B3-25-1CR015-3.EC	0.250	1.000	1.000	0.015	0.250	3.000
ECAI-B3-25-1CR03-3.EC	0.250	1.000	1.000	0.030	0.250	3.000
ECAI-B3-25-1.25CR04-4EC	0.250	1.250	1.250	0.000	0.250	4.000
ECAI-B3-25-1.3CR015-4EC	0.250	1.250	1.250	0.015	0.250	4.000
ECAI-B3-25-1.3CR03-4EC	0.250	1.250	1.250	0.030	0.250	4.000
ECAI-B3-312-5CR01-2EC	0.312	0.500	0.500	0.000	0.312	2.000
ECAI-B3-312-5CR015-2EC	0.312	0.500	0.500	0.015	0.312	2.000
ECAI-B3-312-5CR03-2EC	0.312	0.500	0.500	0.030	0.312	2.000
ECAI-B3-312-9CR01-2.5EC	0.312	0.875	0.875	0.000	0.312	2.500
ECAI-B3-312-9CR015-2.5	0.312	0.875	0.875	0.015	0.312	2.500
ECAI-B3-312-9CR03-2.5EC	0.312	0.875	0.875	0.030	0.312	2.500
ECAI-B3-312-1CR01-3EC	0.312	1.000	1.000	0.000	0.312	3.000
ECAI-B3-312-1CR015-3EC	0.312	1.000	1.000	0.015	0.312	3.000
ECAI-B3-312-1CR03-3EC	0.312	1.000	1.000	0.030	0.312	3.000
ECAI-B3-312-1.3CR04-4EC	0.312	1.250	1.250	0.000	0.312	4.000
ECAI-B3-312-1.3CR015-4EC	0.312	1.250	1.250	0.015	0.312	4.000
ECAI-B3-312-1.3CR03-4EC	0.312	1.250	1.250	0.030	0.312	4.000
ECAI-B3-375-5CR01-2EC	0.375	0.500	0.500	0.000	0.375	2.000
ECAI-B3-375-5CR015-2EC	0.375	0.500	0.500	0.015	0.375	2.000
ECAI-B3-375-5CR03-2EC	0.375	0.500	0.500	0.030	0.375	2.000
ECAI-B3-375-5CR06-2EC	0.375	0.500	0.500	0.060	0.375	2.000
ECAI-B3-375-5CR09-2EC	0.375	0.500	0.500	0.090	0.375	2.000
ECAI-B3-375-8CR125-2EC	0.375	0.500	0.500	0.125	0.375	2.000
ECAI-B3-375-8/1.2C-3EC	0.375	0.750	1.250	0.000	0.375	3.000
ECAI-B3-375-8/1.3CR15-3	0.375	0.750	1.250	0.015	0.375	3.000
ECAI-B3-375-8/1.3CR03-3	0.375	0.750	1.250	0.030	0.375	3.000
ECAI-B3-375-8/1.3CR06-3	0.375	0.750	1.250	0.060	0.375	3.000
ECAI-B3-375-8/1.3CR09-3	0.375	0.750	1.250	0.090	0.375	3.000
ECAI-B3-375-8/1.3CR12-3	0.375	0.750	1.250	0.120	0.375	3.000
ECAI-B3-375-8/2.1C-4EC	0.375	0.750	1.250	0.000	0.375	4.000
ECAI-B3-375-8/2.1CR15-4	0.375	0.750	1.250	0.015	0.375	4.000
ECAI-B3-375-8/2.1CR03-4	0.375	0.750	1.250	0.030	0.375	4.000
ECAI-B3-375-8/2.1CR06-4	0.375	0.750	1.250	0.060	0.375	4.000
ECAI-B3-375-8/2.1CR09-4	0.375	0.750	1.250	0.090	0.375	4.000
ECAI-B3-375-1CR01-2.5EC	0.375	1.000	1.000	0.000	0.375	2.500
ECAI-B3-375-1CR015-2.5EC	0.375	1.000	1.000	0.015	0.375	2.500
ECAI-B3-375-1CR03-2.5EC	0.375	1.000	1.000	0.030	0.375	2.500
ECAI-B3-375-1CR06-2.5EC	0.375	1.000	1.000	0.060	0.375	2.500
ECAI-B3-375-1CR09-2.5EC	0.375	1.000	1.000	0.090	0.375	2.500
ECAI-B3-375-1CR125-2.5EC	0.375	1.000	1.000	0.125	0.375	2.500
ECAI-B3-375-1CR01-3EC	0.375	1.000	1.000	0.000	0.375	3.000
ECAI-B3-375-1CR015-3EC	0.375	1.000	1.000	0.015	0.375	3.000
ECAI-B3-375-1CR03-3EC	0.375	1.000	1.000	0.030	0.375	3.000
ECAI-B3-375-1CR06-3EC	0.375	1.000	1.000	0.060	0.375	3.000
ECAI-B3-375-1CR09-3EC	0.375	1.000	1.000	0.090	0.375	3.000
ECAI-B3-375-1CR125-3EC	0.375	1.000	1.000	0.125	0.375	3.000
ECAI-B3-375-1.5CR04-4EC	0.375	1.500	1.500	0.000	0.375	4.000
ECAI-B3-375-1.5CR015-4EC	0.375	1.500	1.500	0.015	0.375	4.000
ECAI-B3-375-1.5CR03-4EC	0.375	1.500	1.500	0.030	0.375	4.000
ECAI-B3-375-1.5CR06-4EC	0.375	1.500	1.500	0.060	0.375	4.000
ECAI-B3-375-1.5CR09-4EC	0.375	1.500	1.500	0.090	0.375	4.000
ECAI-B3-375-1.5CR125-4EC	0.375	1.500	1.500	0.125	0.375	4.000
ECAI-B3-437-1CR01-2.75EC	0.437	1.000	1.000	0.000	0.432	2.750



Bass Tool & Supply, Inc.
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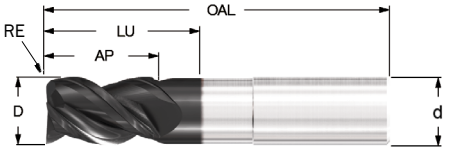


Member IMC Group **FLASHSOLID**

3-FLUTE

CONTINUED FROM PREVIOUS PAGE

- DLC COATED FOR MACHINING ALUMINUM AND NON-FERROUS METALS



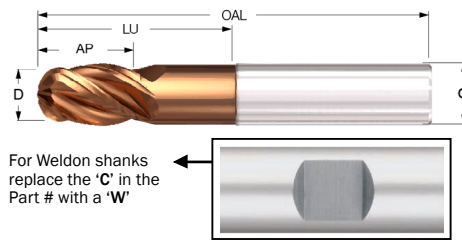
PART #	D	AP	LU	RE	d	OAL
ECAL-B3-75-1CR125-3EC	0.750	1.000	1.000	0.125	0.750	3.000
ECAL-B3-75-1.25/2CR0-4EC	0.750	1.250	2.000	0.000	0.750	4.000
ECAL-B3-75-1.3/2CR015-4	0.750	1.250	2.000	0.015	0.750	4.000
ECAL-B3-75-1.3/2CR03-4EC	0.750	1.250	2.000	0.030	0.750	4.000
ECAL-B3-75-1.3/2CR06-4EC	0.750	1.250	2.000	0.060	0.750	4.000
ECAL-B3-75-1.3/2CR09-4EC	0.750	1.250	2.000	0.090	0.750	4.000
ECAL-B3-75-1.3/2CR125-4	0.750	1.250	2.000	0.125	0.750	4.000
ECAL-B3-75-1.25/3CR0-5EC	0.750	1.250	3.000	0.000	0.750	5.000
ECAL-B3-75-1.3/3CR015-5	0.750	1.250	3.000	0.015	0.750	5.000
ECAL-B3-75-1.3/3CR03-5EC	0.750	1.250	3.000	0.030	0.750	5.000
ECAL-B3-75-1.3/3CR06-5EC	0.750	1.250	3.000	0.060	0.750	5.000
ECAL-B3-75-1.3/3CR09-5EC	0.750	1.250	3.000	0.090	0.750	5.000
ECAL-B3-75-1.3/3CR125-5	0.750	1.250	3.000	0.125	0.750	5.000
ECAL-B3-75-1.25/4CR0-6EC	0.750	1.250	4.000	0.000	0.750	6.000
ECAL-B3-75-1.3/4CR015-6	0.750	1.250	4.000	0.015	0.750	6.000
ECAL-B3-75-1.3/4CR03-6EC	0.750	1.250	4.000	0.030	0.750	6.000
ECAL-B3-75-1.3/4CR06-6EC	0.750	1.250	4.000	0.060	0.750	6.000
ECAL-B3-75-1.3/4CR09-6EC	0.750	1.250	4.000	0.090	0.750	6.000
ECAL-B3-75-1.3/4CR125-6	0.750	1.250	4.000	0.125	0.750	6.000
ECAL-B3-75-1.3CR0-6EC	0.750	1.500	1.500	0.000	0.750	6.000
ECAL-B3-75-1.3CR015-6EC	0.750	1.500	1.500	0.015	0.750	6.000
ECAL-B3-75-1.3CR03-6EC	0.750	1.500	1.500	0.030	0.750	6.000
ECAL-B3-75-1.3CR06-6EC	0.750	1.500	1.500	0.060	0.750	6.000
ECAL-B3-75-1.3CR09-6EC	0.750	1.500	1.500	0.090	0.750	6.000
ECAL-B3-75-1.3CR125-6EC	0.750	1.500	1.500	0.125	0.750	6.000
ECAL-B3-75-1.6CR0-4EC	0.750	1.625	1.625	0.000	0.750	4.000
ECAL-B3-75-1.6CR015-4EC	0.750	1.625	1.625	0.015	0.750	4.000
ECAL-B3-75-1.6CR03-4EC	0.750	1.625	1.625	0.030	0.750	4.000
ECAL-B3-75-1.6CR06-4EC	0.750	1.625	1.625	0.060	0.750	4.000
ECAL-B3-75-1.6CR09-4EC	0.750	1.625	1.625	0.090	0.750	4.000
ECAL-B3-75-1.6CR125-4EC	0.750	1.625	1.625	0.125	0.750	4.000
ECAL-B3-75-2.3CR0-5EC	0.750	2.250	2.250	0.000	0.750	5.000
ECAL-B3-75-2.3CR015-5EC	0.750	2.250	2.250	0.015	0.750	5.000
ECAL-B3-75-2.3CR03-5EC	0.750	2.250	2.250	0.030	0.750	5.000
ECAL-B3-75-2.3CR06-5EC	0.750	2.250	2.250	0.060	0.750	5.000
ECAL-B3-75-2.3CR09-5EC	0.750	2.250	2.250	0.090	0.750	5.000
ECAL-B3-75-2.3CR125-5EC	0.750	2.250	2.250	0.125	0.750	5.000
ECAL-B3-75-3CR0-6EC	0.750	3.000	3.000	0.000	0.750	6.000
ECAL-B3-75-3CR015-6EC	0.750	3.000	3.000	0.015	0.750	6.000
ECAL-B3-75-3CR03-6EC	0.750	3.000	3.000	0.030	0.750	6.000
ECAL-B3-75-3CR06-6EC	0.750	3.000	3.000	0.060	0.750	6.000
ECAL-B3-75-3CR09-6EC	0.750	3.000	3.000	0.090	0.750	6.000
ECAL-B3-75-3CR125-6EC	0.750	3.000	3.000	0.125	0.750	6.000
ECAL-B3-75-4CR0-7EC	0.750	4.000	4.000	0.000	0.750	7.000
ECAL-B3-75-4CR015-7EC	0.750	4.000	4.000	0.015	0.750	7.000
ECAL-B3-75-4CR03-7EC	0.750	4.000	4.000	0.030	0.750	7.000
ECAL-B3-75-4CR06-7EC	0.750	4.000	4.000	0.060	0.750	7.000
ECAL-B3-75-4CR09-7EC	0.750	4.000	4.000	0.090	0.750	7.000
ECAL-B3-75-4CR125-7EC	0.750	4.000	4.000	0.125	0.750	7.000
ECAL-B3-1.5CR0-4EC	1.000	1.500	1.500	0.000	1.000	4.000
ECAL-B3-1.5CR015-4EC	1.000	1.500	1.500	0.015	1.000	4.000
ECAL-B3-1.5CR03-4EC	1.000	1.500	1.500	0.030	1.000	4.000
ECAL-B3-1.5CR06-4EC	1.000	1.500	1.500	0.060	1.000	4.000
ECAL-B3-1.5CR09-4EC	1.000	1.500	1.500	0.090	1.000	4.000
ECAL-B3-1.5CR125-4EC	1.000	1.500	1.500	0.125	1.000	4.000
ECAL-B3-1.5CR0-6EC	1.000	1.500	1.500	0.000	1.000	6.000
ECAL-B3-1.5CR015-6EC	1.000	1.500	1.500	0.015	1.000	6.000
ECAL-B3-1.5CR03-6EC	1.000	1.500	1.500	0.030	1.000	6.000
ECAL-B3-1.5CR06-6EC	1.000	1.500	1.500	0.060	1.000	6.000
ECAL-B3-1.5CR09-6EC	1.000	1.500	1.500	0.090	1.000	6.000
ECAL-B3-1.5CR125-6EC	1.000	1.500	1.500	0.125	1.000	6.000
ECAL-B3-1.5/3CR0-5EC	1.000	1.500	3.000	0.000	1.000	5.000
ECAL-B3-1.5/3CR015-5EC	1.000	1.500	3.000	0.015	1.000	5.000
ECAL-B3-1.5/3CR03-5EC	1.000	1.500	3.000	0.030	1.000	5.000
ECAL-B3-1.5/3CR06-5EC	1.000	1.500	3.000	0.060	1.000	5.000
ECAL-B3-1.5/3CR09-5EC	1.000	1.500	3.000	0.090	1.000	5.000
ECAL-B3-1.5/3CR125-5EC	1.000	1.500	3.000	0.125	1.000	5.000
ECAL-B3-1.5/4CR0-6EC	1.000	1.500	4.000	0.000	1.000	6.000
ECAL-B3-1.5/4CR015-6EC	1.000	1.500	4.000	0.015	1.000	6.000
ECAL-B3-1.5/4CR03-6EC	1.000	1.500	4.000	0.030	1.000	6.000
ECAL-B3-1.5/4CR06-6EC	1.000	1.500	4.000	0.060	1.000	6.000
ECAL-B3-1.5/4CR09-6EC	1.000	1.500	4.000	0.090	1.000	6.000
ECAL-B3-1.5/4CR125-6EC	1.000	1.500	4.000	0.125	1.000	6.000
ECAL-B3-1.5/5CR0-7EC	1.000	1.500	5.000	0.000	1.000	7.000
ECAL-B3-1.5/5CR015-7EC	1.000	1.500	5.000	0.015	1.000	7.000
ECAL-B3-1.5/5CR03-7EC	1.000	1.500	5.000	0.030	1.000	7.000
ECAL-B3-1.5/5CR06-7EC	1.000	1.500	5.000	0.060	1.000	7.000
ECAL-B3-1.5/5CR09-7EC	1.000	1.500	5.000	0.090	1.000	7.000
ECAL-B3-1.5/5CR125-7EC	1.000	1.500	5.000	0.125	1.000	7.000
ECAL-B3-1.2CR0-4.5EC	1.000	2.000	2.000	0.000	1.000	4.500
ECAL-B3-1.2CR03-4.5EC	1.000	2.000	2.000	0.030	1.000	4.500
ECAL-B3-1.2CR06-4.5EC	1.000	2.000	2.000	0.060	1.000	4.500
ECAL-B3-1.2CR09-4.5EC	1.000	2.000	2.000	0.090	1.000	4.500
ECAL-B3-1.2CR125-4.5EC	1.000	2.000	2.000	0.125	1.000	4.500
ECAL-B3-1.25CR0-4.5EC	1.250	2.000	2.000	0.000	1.250	4.500
ECAL-B3-1.25CR03-4.5EC	1.250	2.000	2.000	0.030	1.250	4.500
ECAL-B3-1.25CR06-4.5EC	1.250	2.000	2.000	0.060	1.250	4.500
ECAL-B3-1.25CR09-4.5EC	1.250	2.000	2.000	0.090	1.250	4.500
ECAL-B3-1.25CR125-4.5EC	1.250	2.000	2.000	0.125	1.250	4.500
ECAL-B3-1.25CR0-6EC	1.250	3.000	3.000	0.000	1.250	6.000
ECAL-B3-1.25CR03-6EC	1.250	3.000	3.000	0.030	1.250	6.000
ECAL-B3-1.25CR06-6EC	1.250	3.000	3.000	0.060	1.250	6.000
ECAL-B3-1.25CR09-6EC	1.250	3.000	3.000	0.090	1.250	6.000
ECAL-B3-1.25CR125-6EC	1.250	3.000	3.000	0.125	1.250	6.000

CONTINUED ABOVE

FLASHSOLID SOLID CARBIDE ENDMILLS - BALL-END

• TiAlN COATED

4-FLUTE



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

PART #	D	AP	LU	d	OAL
EBI-4-125-500VF1.5	0.125	0.650	0.650	0.125	1.500
EBI-4-187-625CVF2	0.188	0.625	0.625	0.188	2.000
EBI-4-250-375CVF2	0.250	0.375	0.375	0.250	2.000
EBI-4-250-500/1.25CVF3	0.250	0.650	1.250	0.250	3.000
EBI-4-250-400/2.12CVF4	0.250	0.650	2.125	0.250	4.000
EBI-4-250-750CVF2.5	0.250	0.750	0.750	0.250	2.500
EBI-4-250-1.0CVF3	0.250	1.000	1.000	0.250	3.000
EBI-4-250-1.25CVF4	0.250	1.250	1.250	0.250	4.000
EBI-4-312-500CVF2	0.313	0.650	0.650	0.313	2.000
EBI-4-312-875CVF2.5	0.313	0.875	0.875	0.313	2.500
EBI-4-312-1.0CVF3	0.313	1.000	1.000	0.313	3.000
EBI-4-312-1.25CVF4	0.313	1.250	1.250	0.313	4.000
EBI-4-312-1.62CVF4	0.313	1.625	1.625	0.313	4.000
EBI-4-312-500CVF2	0.375	0.650	0.650	0.375	2.000
EBI-4-375-750/1.25CVF3	0.375	0.750	1.250	0.375	3.000
EBI-4-375-750/2.12CVF4	0.375	0.750	2.125	0.375	4.000
EBI-4-375-1.0CVF2.5	0.375	1.000	1.000	0.375	2.500
EBI-4-375-1.0CVF3	0.375	1.000	1.000	0.375	3.000
EBI-4-375-1.5CVF4	0.375	1.500	1.500	0.375	4.000
EBI-4-375-2.5CVF5	0.375	2.500	2.500	0.375	5.000
EBI-4-437-625CVF2.75	0.437	0.625	0.625	0.437	2.750
EBI-4-437-1.0CVF2.75	0.437	1.000	1.000	0.437	2.750
EBI-4-437-1.5CVF4	0.437	1.500	1.500	0.437	4.000
EBI-4-437-3.0CVF6	0.437	3.000	3.000	0.437	6.000
EBI-4-500-625CVF2.5	0.500	0.625	0.625	0.500	2.500
EBI-4-500-875/1.37CVF3	0.500	0.875	1.375	0.500	3.000
EBI-4-500-875/2.12CVF4	0.500	0.875	2.125	0.500	4.000
EBI-4-500-875/4.12WVF5	0.500	0.875	4.125	0.500	5.000
EBI-4-500-1.0CVF3	0.500	1.000	1.000	0.500	3.000
EBI-4-500-1.25CVF3	0.500	1.250	1.250	0.500	3.000
EBI-4-500-1.5CVF4	0.500	1.500	1.500	0.500	4.000
EBI-4-500-2.0CVF4	0.500	2.000	2.000	0.500	4.000
EBI-4-500-2.5CVF5	0.500	2.500	2.500	0.500	5.000
EBI-4-500-3.0CVF6	0.500	3.000	3.000	0.500	6.000
EBI-4-625-750CVF3	0.625	0.750	0.750	0.625	3.000
EBI-4-625-1.0/2.0CVF4	0.625	1.000	2.000	0.625	4.000
EBI-4-625-1.0/3.0CVF5	0.625	1.000	3.000	0.625	5.000
EBI-4-625-1.0/4.0CVF6	0.625	1.000	4.000	0.625	6.000
EBI-4-625-1.25CVF3.5	0.625	1.250	1.250	0.625	3.500
EBI-4-625-1.75CVF4	0.625	1.750	1.750	0.625	4.000
EBI-4-625-2.25CVF5	0.625	2.250	2.250	0.625	5.000
EBI-4-625-3.0CVF6	0.625	3.000	3.000	0.625	6.000
EBI-4-750-875CVF3	0.750	0.875	0.875	0.750	3.000

CONTINUED ABOVE

CONTINUED ABOVE

PART #	D	AP</
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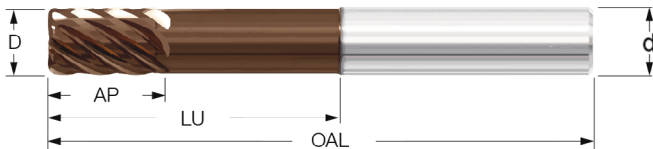
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PART #	D	AP	LU	RE	d	OAL
ECI-7-250-500/1.25C0V3	0.250	0.500	1.250	0.000	0.250	3.000
ECI-7-250-500/1.25C015V3	0.250	0.500	1.250	0.015	0.250	3.000
ECI-7-250-500/1.25C030V3	0.250	0.500	1.250	0.030	0.250	3.000
ECI-7-250-500/1.25C060V3	0.250	0.500	1.250	0.060	0.250	3.000
ECI-7-250-500/2.13C0V4	0.250	0.500	2.125	0.000	0.250	4.000
ECI-7-250-500/2.13C015V4	0.250	0.500	2.125	0.015	0.250	4.000
ECI-7-250-500/2.13C030V4	0.250	0.500	2.125	0.030	0.250	4.000
ECI-7-250-500/2.13C060V4	0.250	0.500	2.125	0.060	0.250	4.000
ECI-7-250-500C0V2	0.250	0.500	0.500	0.000	0.250	2.000
ECI-7-250-500C010V2	0.250	0.500	0.500	0.010	0.250	2.000
ECI-7-250-500C015V2	0.250	0.500	0.500	0.015	0.250	2.000
ECI-7-250-500C030V2	0.250	0.500	0.500	0.030	0.250	2.000
ECI-7-250-500C060V2	0.250	0.500	0.500	0.060	0.250	2.000
ECI-7-250-750C0V2.5	0.250	0.750	0.750	0.000	0.250	2.500
ECI-7-250-750C015V2.5	0.250	0.750	0.750	0.015	0.250	2.500
ECI-7-250-750C030V2.5	0.250	0.750	0.750	0.030	0.250	2.500
ECI-7-250-750C060V2.5	0.250	0.750	0.750	0.060	0.250	2.500
ECI-7-250-1.0C0V3	0.250	1.000	1.000	0.000	0.250	3.000
ECI-7-250-1.0C010V3	0.250	1.000	1.000	0.010	0.250	3.000
ECI-7-250-1.0C015V3	0.250	1.000	1.000	0.015	0.250	3.000
ECI-7-250-1.0C030V3	0.250	1.000	1.000	0.030	0.250	3.000
ECI-7-250-1.0C060V3	0.250	1.000	1.000	0.060	0.250	3.000
ECI-7-250-1.25C0V4	0.250	1.250	1.250	0.000	0.250	4.000
ECI-7-250-1.25C015V4	0.250	1.250	1.250	0.015	0.250	4.000
ECI-7-250-1.25C030V4	0.250	1.250	1.250	0.030	0.250	4.000
ECI-7-250-1.25C060V4	0.250	1.250	1.250	0.060	0.250	4.000
ECI-7-312-500C0V2	0.312	0.500	0.500	0.000	0.312	2.000
ECI-7-312-500C010V2	0.312	0.500	0.500	0.010	0.312	2.000
ECI-7-312-500C015V2	0.312	0.500	0.500	0.015	0.312	2.000
ECI-7-312-500C030V2	0.312	0.500	0.500	0.030	0.312	2.000
ECI-7-312-500C060V2	0.312	0.500	0.500	0.060	0.312	2.000
ECI-7-312-875C0V2.5	0.312	0.875	0.875	0.000	0.312	2.500
ECI-7-312-875C015V2.5	0.312	0.875	0.875	0.015	0.312	2.500
ECI-7-312-875C030V2.5	0.312	0.875	0.875	0.030	0.312	2.500
ECI-7-312-875C060V2.5	0.312	0.875	0.875	0.060	0.312	2.500
ECI-7-312-1.0C0V3	0.312	1.000	1.000	0.000	0.312	3.000
ECI-7-312-1.0C010V3	0.312	1.000	1.000	0.010	0.312	3.000
ECI-7-312-1.0C015V3	0.312	1.000	1.000	0.015	0.312	3.000
ECI-7-312-1.0C030V3	0.312	1.000	1.000	0.030	0.312	3.000
ECI-7-312-1.0C060V3	0.312	1.000	1.000	0.060	0.312	3.000
ECI-7-312-1.25C0V4	0.312	1.250	1.250	0.000	0.312	4.000
ECI-7-312-1.25C015V4	0.312	1.250	1.250	0.015	0.312	4.000
ECI-7-312-1.25C030V4	0.312	1.250	1.250	0.030	0.312	4.000
ECI-7-312-1.25C060V4	0.312	1.250	1.250	0.060	0.312	4.000
ECI-7-375-500C0V2	0.375	0.500	0.500	0.000	0.375	2.000
ECI-7-375-500C010V2	0.375	0.500	0.500	0.010	0.375	2.000
ECI-7-375-500C015V2	0.375	0.500	0.500	0.015	0.375	2.000
ECI-7-375-500C030V2	0.375	0.500	0.500	0.030	0.375	2.000
ECI-7-375-500C060V2	0.375	0.500	0.500	0.060	0.375	2.000
ECI-7-375-750/1.25C0V3	0.375	0.750	1.250	0.000	0.375	3.000
ECI-7-375-750/1.25C015V3	0.375	0.750	1.250	0.015	0.375	3.000
ECI-7-375-750/1.25C030V3	0.375	0.750	1.250	0.030	0.375	3.000
ECI-7-375-750/1.25C060V3	0.375	0.750	1.250	0.060	0.375	3.000
ECI-7-375-750/2.13C0V4	0.375	0.750	2.125	0.000	0.375	4.000
ECI-7-375-750/2.13C015V4	0.375	0.750	2.125	0.015	0.375	4.000
ECI-7-375-750/2.13C030V4	0.375	0.750	2.125	0.030	0.375	4.000
ECI-7-375-750/2.13C060V4	0.375	0.750	2.125	0.060	0.375	4.000
ECI-7-375-1.0C0V2.5	0.375	1.000	1.000	0.000	0.375	2.500
ECI-7-375-1.0C0V3	0.375	1.000	1.000	0.000	0.375	3.000
ECI-7-375-1.0C015V2.5	0.375	1.000	1.000	0.015	0.375	2.500
ECI-7-375-1.0C015V3	0.375	1.000	1.000	0.015	0.375	3.000
ECI-7-375-1.0C030V2.5	0.375	1.000	1.000	0.030	0.375	2.500
ECI-7-375-1.0C030V3	0.375	1.000	1.000	0.030	0.375	3.000
ECI-7-375-1.0C060V2.5	0.375	1.000	1.000	0.060	0.375	2.500
ECI-7-375-1.0C060V3	0.375	1.000	1.000	0.060	0.375	3.000
ECI-7-375-1.5C0V4	0.375	1.500	1.500	0.000	0.375	4.000
ECI-7-375-1.5C015V4	0.375	1.500	1.500	0.015	0.375	4.000
ECI-7-375-1.5C030V4	0.375	1.500	1.500	0.030	0.375	4.000
ECI-7-375-1.5C060V4	0.375	1.500	1.500	0.060	0.375	4.000
ECI-7-437-1.0C0V2.5	0.437	1.000	1.000	0.000	0.437	2.500
ECI-7-437-1.0C015V2.5	0.437	1.000	1.000	0.015	0.437	2.500
ECI-7-437-1.0C030V2.5	0.437	1.000	1.000	0.030	0.437	2.500
ECI-7-437-1.0C060V2.5	0.437	1.000	1.000	0.060	0.437	2.500
ECI-7-437-2.0C0V4	0.437	2.000	2.000	0.000	0.437	4.000
ECI-7-437-2.0C015V4	0.437	2.000	2.000	0.015	0.437	4.000
ECI-7-437-2.0C030V4	0.437	2.000	2.000	0.030	0.437	4.000
ECI-7-437-2.0C060V4	0.437	2.000	2.000	0.060	0.437	4.000
ECI-7-500-625C0V2.5	0.500	0.625	0.625	0.000	0.500	2.500
ECI-7-500-625C010V2.5	0.500	0.625	0.625	0.010	0.500	2.500
ECI-7-500-625C015V2.5	0.500	0.625	0.625	0.015	0.500	2.500
ECI-7-500-625C030V2.5	0.500	0.625	0.625	0.030	0.500	2.500
ECI-7-500-625C060V2.5	0.500	0.625	0.625	0.060	0.500	2.500
ECI-7-500-625C090V2.5	0.500	0.625	0.625	0.090	0.500	2.500
ECI-7-500-625C125V2.5	0.500	0.625	0.625	0.125	0.500	2.500
ECI-7-500-875/1.38C0V3	0.500	0.875	1.375	0.000	0.500	3.000
ECI-7-500-875/1.38C015V3	0.500	0.875	1.375	0.015	0.500	3.000
ECI-7-500-875/1.38C030V3	0.500	0.875	1.375	0.030	0.500	3.000
ECI-7-500-875/1.38C060V3	0.500	0.875	1.375	0.060	0.500	3.000
ECI-7-500-875/1.38C090V3	0.500	0.875	1.375	0.090	0.500	3.000
ECI-7-500-875/1.38C125V3	0.500	0.875	1.375	0.125	0.500	3.000
ECI-7-500-875/2.13C0V4	0.500	0.875	2.125	0.000	0.500	4.000
ECI-7-500-875/2.13C015V4	0.500	0.875	2.125	0.015	0.500	4.000
ECI-7-500-875/2.13C030V4	0.500	0.875	2.125	0.030	0.500	4.000
ECI-7-500-875/2.13C060V4	0.500	0.875	2.125	0.060	0.500	4.000
ECI-7-500-875/2.13C090V4	0.500	0.875	2.125	0.090	0.500	4.000
ECI-7-500-875/2.13C125V4	0.500	0.875	2.125	0.125	0.500	4.000
ECI-7-500-875/3.13C0V5	0.500	0.875	3.125	0.000	0.500	5.000
ECI-7-500-875/3.13C015V5	0.500	0.875	3.125	0.015	0.500	5.000
ECI-7-500-875/3.13C030V5	0.500	0.875	3.125	0.030	0.500	5.000
ECI-7-500-875/3.13C060V5	0.500	0.875	3.125	0.060	0.500	5.000
ECI-7-500-875/3.13C090V5	0.500	0.875	3.125	0.090	0.500	5.000
ECI-7-500-875/3.13C125V5	0.500	0.875	3.125	0.125	0.500	5.000
ECI-7-500-875/4.13C0V6	0.500	0.875	4.125	0.000	0.500	6.000
ECI-7-500-875/4.13C015V6	0.500	0.875	4.125	0.015	0.500	6.000
ECI-7-500-875/4.13C030V6	0.500	0.875	4.125	0.030	0.500	6.000
ECI-7-500-875/4.13C060V6	0.500	0.875	4.125	0.060	0.500	6.000
ECI-7-500-875/4.13C090V6	0.500	0.875	4.125	0.090	0.500	6.000
ECI-7-500-875/4.13C125V6	0.500	0.875	4.125	0.125	0.500	6.000
ECI-7-500-875/4.13C0V6	0.500	0.875	4.125	0.000	0.500	6.000

PART #	D	AP	LU	RE	d	OAL
ECI-7-500-875/4.13C125VF6	0.500	0.875	4.125	0.125	0.500	6.000
ECI-7-500-1.25C0V3F	0.500	1.250	1.250	0.000	0.500	3.000
ECI-7-500-1.25C010VF3	0.500	1.250	1.250	0.010	0.500	3.000
ECI-7-500-1.25C015VF3	0.500	1.250	1.250	0.015	0.500	3.000
ECI-7-500-1.25C030VF3	0.500	1.250	1.250	0.030	0.500	3.000
ECI-7-500-1.25C060VF3	0.500	1.250	1.250	0.060	0.500	3.000
ECI-7-500-1.25C090VF3	0.500	1.250	1.250	0.090	0.500	3.000
ECI-7-500-1.25C125VF3	0.500	1.250	1.250	0.125	0.500	3.000
ECI-7-500-2.0C0V4F	0.500	2.000	2.000	0.000	0.500	4.000
ECI-7-500-2.0C010V4F	0.500	2.000	2.000	0.010	0.500	4.000
ECI-7-500-2.0C015V4F	0.500	2.000	2.000	0.015	0.500	4.000
ECI-7-500-2.0C030V4F	0.500	2.000	2.000	0.030	0.500	4.000
ECI-7-500-2.0C060V4F	0.500	2.000	2.000	0.060	0.500	4.000
ECI-7-500-2.0C090V4F	0.500	2.000	2.000	0.090	0.500	4.000
ECI-7-500-2.0C125V4F	0.500	2.000	2.000	0.125	0.500	4.000
ECI-7-500-2.5C0V5F	0.500	2.500	2.500	0.000	0.500	5.000
ECI-7-500-2.5C015V5F	0.500	2.500	2.500	0.015	0.500	5.000
ECI-7-500-2.5C030V5F	0.500	2.500	2.500	0.030	0.500	5.000
ECI-7-500-2.5C060V5F	0.500	2.500	2.500	0.060	0.500	5.000
ECI-7-500-2.5C090V5F	0.500	2.500	2.500	0.090	0.500	5.000
ECI-7-500-2.5C125V5F	0.500	2.500	2.500	0.125	0.500	5.000
ECI-7-500-3.13C0V6F	0.500	3.125	3.125	0.000	0.500	6.000
ECI-7-500-3.13C015V6F	0.500	3.125	3.125	0.015	0.500	6.000
ECI-7-500-3.13C030V6F	0.500	3.125	3.125	0.030	0.500	6.000
ECI-7-500-3.13C060V6F	0.500	3.125	3.125	0.060	0.500	6.000
ECI-7-500-3.13C090V6F	0.500	3.125	3.125	0.090	0.500	6.000
ECI-7-500-3.13C125V6F	0.500	3.125	3.125	0.125	0.500	6.000
ECI-7-500-3.25C125V6F	0.500	3.250	3.250	0.125	0.500	6.000
ECI-7-625-750C0V3F	0.625	0.750	0.750	0.000	0.625	3.000
ECI-7-625-750C015V3F	0.625	0.750	0.750	0.015	0.625	3.000
ECI-7-625-750C030V3F	0.625	0.750	0.750	0.030	0.625	3.000
ECI-7-625-750C060V3F	0.625	0.750	0.750	0.060	0.625	3.000
ECI-7-625-750C090V3F	0.625	0.750	0.750	0.090	0.625	3.000
ECI-7-625-750C125V3F	0.625	0.750	0.750	0.125	0.625	3.000
ECI-7-625-1.0C0V4F	0.625	1.000	2.000	0.000	0.625	4.000
ECI-7-625-1.0C010V4F	0.625	1.000	2.000	0.015	0.625	4.000
ECI-7-625-1.0C020C0V4F	0.625	1.000	2.000	0.030	0.625	4.000
ECI-7-625-1.0C030V4F	0.625	1.000	2.000	0.060	0.625	4.000
ECI-7-625-1.0C060V4F	0.625	1.000	2.000	0.090	0.625	4.000
ECI-7-625-1.0C125V4F	0.625	1.000	2.000	0.125	0.625	4.000
ECI-7-625-1.0C0V5F	0.625	1.000	3.000	0.000	0.625	5.000
ECI-7-625-1.0C015V5F	0.625	1.000	3.000	0.015	0.625	5.000
ECI-7-625-1.0C030C0V5F	0.625	1.000	3.000	0.030	0.625	5.000
ECI-7-625-1.0C060V5F	0.625	1.000	3.000	0.060	0.625	5.000
ECI-7-625-1.0C090V5F	0.625	1.000	3.000	0.090	0.625	5.000
ECI-7-625-1.0C125V5F	0.625	1.000	3.000	0.125	0.625	5.000
ECI-7-625-1.0C0V6F	0.625	1.000	4.000	0.000	0.625	6.000
ECI-7-625-1.0C010V6F	0.625	1.000	4.000	0.010	0.625	6.000
ECI-7-625-1.0C015V6F	0.625	1.000	4.000	0.015	0.625	6.000
ECI-7-625-1.0C030V6F	0.625	1.000	4.000	0.030	0.625	6.000
ECI-7-625-1.0C060V6F	0.625	1.000	4.000	0.060	0.625	6.000
ECI-7-625-1.0C090V6F	0.625	1.000	4.000	0.090	0.625	6.000
ECI-7-625-1.0C125V6F	0.625	1.000	4.000	0.125	0.625	6.000
ECI-7-625-1.63C0V3F.3	0.625	1.625	1.625	0.000	0.625	3.500
ECI-7-625-1.63C015V3.3	0.625	1.625	1.625	0.010	0.625	3.500
ECI-7-625-1.63C015VF3.3	0.625	1.625	1.625	0.015	0.625	3.500
ECI-7-625-1.63C030V3.3	0.625	1.625	1.625	0.030	0.625	3.500
ECI-7-625-1.63C060V3.3	0.625	1.625	1.625	0.060	0.625	3.500
ECI-7-625-1.63C090V3.3	0.625	1.625	1.625	0.090	0.625	3.500
ECI-7-625-1.63C125V3.3	0.625	1.625	1.625	0.125	0.625	3.500
ECI-7-625-2.5C0V5F	0.625	2.500	2.500	0.000	0.625	5.000
ECI-7-625-2.5C010V5F	0.625	2.500	2.500	0.010	0.625	5.000
ECI-7-625-2.5C015V5F	0.625	2.500	2.500	0.015	0.625	5.000
ECI-7-625-2.5C030V5F	0.625	2.500	2.500	0.030	0.625	5.000
ECI-7-625-2.5C060V5F	0.625	2.500	2.500	0.060	0.625	5.000
ECI-7-625-2.5C090V5F	0.625	2.500	2.500	0.090	0.625	5.000
ECI-7-625-2.5C125V5F	0.625	2.500	2.500	0.125	0.625	5.000
ECI-7-625-3.0C0V6F	0.625	3.000	3.000	0.000	0.625	6.000
ECI-7-625-3.0C015V6F	0.625	3.000	3.000	0.015	0.625	6.000
ECI-7-625-3.0C030V6F	0.625	3.000	3.000	0.030	0.625	6.000
ECI-7-625-3.0C060V6F	0.625	3.000	3.000	0.060	0.625	6.000
ECI-7-625-3.0C090V6F	0.625	3.000	3.000	0.090	0.625	6.000
ECI-7-625-3.0C125V6F	0.625	3.000	3.000	0.125	0.625	6.000
ECI-7-750-1.0C0V3F	0.750	1.000	1.000	0.000	0.750	3.000
ECI-7-750-1.0C015V3F	0.750	1.000	1.000	0.015	0.750	3.000
ECI-7-750-1.0C030V3F	0.750	1.000	1.000	0.030	0.750	3.000
ECI-7-750-1.0C060V3F	0.750	1.000	1.000	0.060	0.750	3.000
ECI-7-750-1.0C090V3F	0.750	1.000	1.000	0.090	0.750	3.000
ECI-7-750-1.0C125V3F	0.750	1.000	1.000	0.125	0.750	3.000
ECI-7-750-1.25I2C0V4F	0.750	1.250	2.000	0.000	0.750	4.000
ECI-7-750-1.25I2C0015V4F	0.750	1.250	2.000	0.015	0.750	4.000
ECI-7-750-1.25I2C030V4F	0.750	1.250	2.000	0.030	0.750	4.000
ECI-7-750-1.25I2C060V4F	0.750	1.250	2.000	0.060	0.750	4.000
ECI-7-750-1.25I2C090V4F	0.750	1.250	2.000	0.090	0.750	4.000
ECI-7-750-1.25I2C125V4F	0.750	1.250	2.000	0.125	0.750	4.000
ECI-7-750-1.25I3C0V5F	0.750	1.250	3.000	0.000	0.750	5.000
ECI-7-750-1.25I3C0015V5F	0.750	1.250	3.000	0.015	0.750	5.000
ECI-7-750-1.25I3C030V5F	0.750	1.250	3.000	0.030	0.750	5.000
ECI-7-750-1.25I3C060V5F	0.750	1.250	3.000	0.060	0.750	5.000
ECI-7-750-1.25I3C090V5F	0.750	1.250	3.000	0.090	0.750	5.000
ECI-7-750-1.25I3C125V5F	0.750	1.250	3.000	0.125	0.750	5.000
ECI-7-750-1.25I4C0V6F	0.750	1.250	4.000	0.000	0.750	6.000
ECI-7-750-1.25I4C0015V6F	0.750	1.250	4.000	0.015	0.750	6.000
ECI-7-750-1.25I4C030V6F	0.750	1.250	4.000	0.030	0.750	6.000
ECI-7-750-1.25I4C060V6F	0.750	1.250	4.000	0.060	0.750	6.000
ECI-7-750-1.25I4C090V6F	0.750	1.250	4.000	0.090	0.750	6.000
ECI-7-750-1.25I4C125V6F	0.750	1.250	4.000	0.125	0.750	6.000
ECI-7-750-1.63C0V4F	0.750	1.625	1.625	0.000	0.750	4.000



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MILL4FEED

Valid until September 30th 2025

Small 06 High Feed Square Inserts with 4 Positive Cutting Edges for Machining Diverse Materials

Deep cavity machining at high overhangs and high feed rates.
Assures stable machining, no vibrations for fast metal removal.

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Use Promo Code: **T2400**

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10 inserts per pocket - FFQ4 SOMT/W 06...
of any assortment

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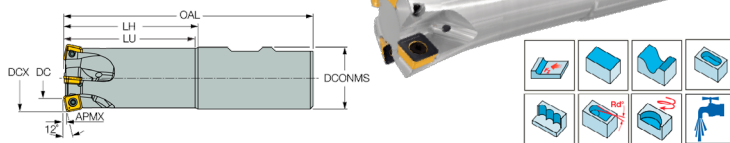
Corresponding FFQ4 D...06 endmill cutter
up to 1.25"

Free of Charge



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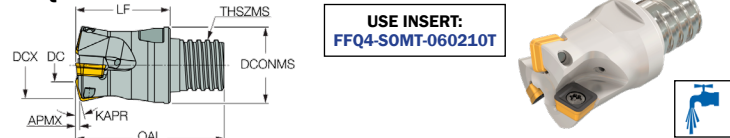
Member IMC Group
MILL4FEED Fast Feed Endmills Carrying Single Sided Inserts with 4 Cutting Edges
HIGH FEED MILLING **FFQ4-D-W** **INSERTS SHOWN BELOW**



PART #	DCX	DC	APMX	AE ⁽¹⁾	Z ⁽²⁾	LH	OAL	DCONMS	Rd ° ⁽³⁾
USE INSERT: FFQ4-SOMT-060210T									
FFQ4-D-62-03-W-62-06	0.625	0.278	0.0275	0.173	3	1.250	3.350	0.625	6.0
FFQ4-D-75-04-W-75-06	0.750	0.315	0.0275	0.173	4	1.500	3.650	0.750	4.0
FFQ4-D-100-05-W-100-06	1.000	0.654	0.0275	0.173	5	2.000	4.450	1.000	2.2
FFQ4-D-125-07-W-125-06	1.250	0.903	0.0275	0.173	7	2.500	4.950	1.250	1.5

• Radius for programming: for insert SOMT-06: .067", for insert SOMW-06: .075", for insert SOMT-09: .098"
(1) Plunging width (2) Number of inserts (3) Maximum ramping angle

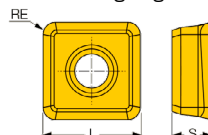
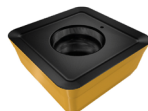
MILL4FEED Fast Feed Endmills with Multi-Master Connection
FFQ4-D-MM-06 **INSERTS SHOWN BELOW**



PART #	DCX	DC	APMX	AE ⁽¹⁾	Z ⁽²⁾	THSZMS	LF	OAL	DCONMS	RD ° ⁽³⁾
USE INSERT: FFQ4-SOMT-060210T										
FFQ4-D-16/63-03-MMT10-06	0.630	0.283	0.0275	0.173	3	T10	0.630	1.075	0.598	6.0
FFQ4-D-75-04-MMT12-06	0.750	0.315	0.0275	0.173	4	T12	1.000	1.524	0.720	4.0
FFQ4-D-25/98-05-MMT15-06	0.984	0.638	0.0275	0.173	5	T15	1.181	1.850	0.945	2.2
FFQ4-D-32/126-07-MMT21-06	1.260	0.913	0.0275	0.173	7	T21	1.181	2.091	1.157	1.4

(1) Plunging width (2) Number of inserts (3) Maximum ramping angle

MILL4FEED Square Single-Sided Inserts with 4 Cutting Edges for Fast Feed Milling
FFQ4-SOMT/W



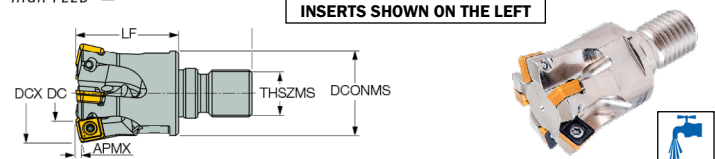
PART #	DIMENSIONS			TOUGH ↔ HARD	
	L	S	RE	IC882	IC840
FFQ4-SOMT-060210HP	0.217	0.079	0.0394	•	•
FFQ4-SOMT-060210T	0.217	0.080	0.0394	•	•
FFQ4-SOMW-060213T*	0.220	0.083	0.0512	•	•

* SOMW-T - Flat insert for interrupted and hard material up to 60 HRC

- T - For steel, ferritic and martensitic stainless steel, cast iron, and hardened steel.
- HP - For austenitic stainless steel and high temp alloys



MILL4FEED Fast Feed Endmills with FLEXFIT Connection
INSERTS SHOWN ON THE LEFT



PART #	DCX	DC	APMX	AE ⁽¹⁾	Z ⁽²⁾	LF	OAL	DCONMS	THSZMS	RD ° ⁽³⁾
USE INSERT: FFQ4-SOMT-060210T										
FFQ4-D-20-04-M10-06	0.787	0.441	0.0276	0.173	4	0.984	1.772	0.709	M10	3.5
FFQ4-D-25-05-M12-06	0.984	0.638	0.0276	0.173	5	1.181	2.047	0.827	M12	2.2
FFQ4-D-32-07-M16-06	1.260	0.913	0.0276	0.173	7	1.181	2.165	1.157	M16	1.4

(1) Plunging width (2) Number of inserts (3) Maximum ramping angle

• Radius for programming: for insert SOMT-06: .0669", for insert SOMW-06: .0748", for insert SOMT-09: .098", for insert SOMW-09: .118". When mounting insert SOMW-06, APMX=.0236, SOMW-09=.039"

QUICKDMILL

Valid until September 30th 2025

Combined Functions for Drilling and Milling In One Single Cutter for Maximum Machining Efficiency

The new **QUICK-D-MILL** insert with 4 cutting edges. Two outer cutting edges for milling, 2 center cutting edges for drilling applications. Incorporates dovetail clamping and assures high process reliability.

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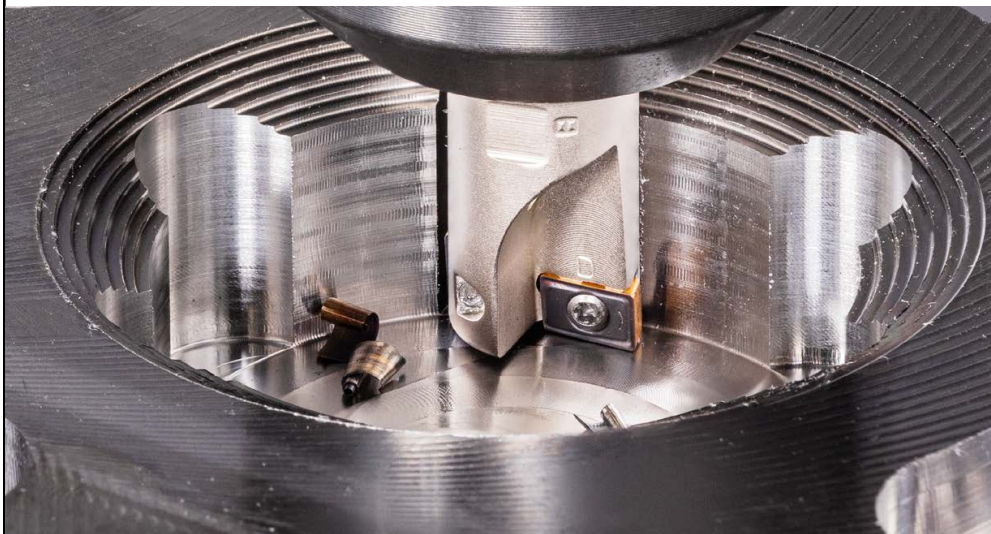
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10 inserts per pocket MDR ANMU 07/09/12...
same size

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Corresponding MDR D...-AN07/AN09/AN12
endmill cutter up to 1.00"

Free of Charge

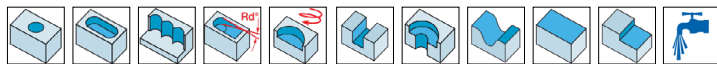


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ISCAR QUICKDMILL

DRILL-MILL MDR D-W-AN: Multi-Function Endmill Cutters



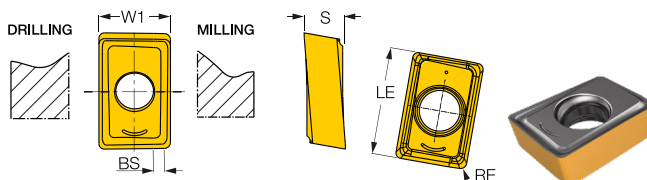
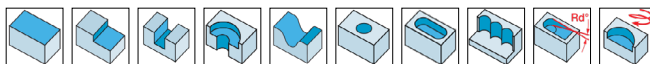
INSERT:
MDR - ANMU

PART #	DC	APMX	APMX 2	KAPR	Z ⁽¹⁾	LU ⁽²⁾	LH	OAL	DCONMS	INSERT
MDR-D0.62-2-W0.62-AN07	0.625	0.285	0.185	90.0	2	0.3048	0.025	0.076	0.625	MDR-ANMU-07
MDR-D0.75-2-W0.75-AN09	0.750	0.350	0.225	90.0	2	0.3810	0.032	0.089	0.750	MDR-ANMU-09
MDR-D1.00-2-W1.00-AN12	1.000	0.450	0.255	90.0	2	0.4699	0.038	0.102	1.000	MDR-ANMU-12

When drilling holes deeper than .200", it is recommended to use either the pecking drilling method (G83).
(1) Z = Number of Inserts (2) LU = Max Drilling Depth

QUICKDMILL INSERTS

MDR ANMU PNTR: Double-Sided Rectangle Inserts with 2 Center Cutting Edges for Drilling and 2 Peripheral Cutting Edges for Milling



PART #	W1	LE	S	BS	RE	fz (min)	fz (max)
MDR-ANMU-070304PNTR	0.205	0.307	0.106	0.032	0.0157	0.002	0.0079
MDR-ANMU-090305PNTR	0.248	0.370	0.124	0.032	0.0196	0.002	0.0091
MDR-ANMU-120408PNTR	0.295	0.488	0.160	0.032	0.0314	0.002	0.0091



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PICCO SUMO CHAM

Valid until September 30th 2025

SUMO-CHAM Drill with a PICCO-CUT Connection for Small Diameter Drilling Solutions

Small 3xD holders with internal
coolant channels. Suitable for
small and Swiss Type machines.

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Use Promo Code: **T2405**

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4 SUMO-CHAM inserts per pocket -
ICP/HCP/FCP/ICM/QCP/ICN...
any assortment from diameters of 0.157"-0.394"

Receive

Corresponding DCN...-PICCO body
Free of Charge

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2

Use Promo Code: **T2406**

Purchase

4 SUMO-CHAM inserts per pocket - ICP/HCP/FCP/ICM/QCP/ICN...
of any assortment plus 1 corresponding drill body with a
MULTI-MASTER connection

Receive

20% Additional Discount

on the inserts

Plus a

50% Additional Discount

on drill body

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PICCO SUMO CHAM

DCN-PICCO: Drill Body with Exchangeable Heads, Internal Coolant Holes and PICCO Connection, Drilling Depth 3xD

PART #	DIA. RANGE DCN - DCX	DCNMS	LU	PL	LS	OAL	SSC ⁽¹⁾	INSERTS ⁽²⁾	
								FROM	TO
DCN0157-047-0236-3D-PICCO	0.157 - 0.173	0.236	0.4969	0.02440	0.587	1.480	4.0	ICP-0157	ICP-0173
DCN0177-055-0236-3D-PICCO	0.177 - 0.193	0.236	0.5772	0.02608	0.587	1.557	4.5	ICP-0177	ICP-0193
DCN0197-059-0236-3D-PICCO	0.197 - 0.213	0.236	0.6193	0.02874	0.587	1.622	5.0	ICP-0197	ICP-0213
DCN0216-067-0236-3D-PICCO	0.217 - 0.232	0.236	0.7012	0.03198	0.587	1.687	5.5	ICP-0217	ICP-0232
DCN0236-071-0236-3D-PICCO	0.236 - 0.252	0.236	0.7465	0.03789	0.587	1.752	6.0	ICP-0236	ICP-0252
DCN0256-079-0236-3D-PICCO	0.256 - 0.272	0.236	0.8339	0.04655	0.673	1.823	6.5	ICP-0256	ICP-0272
DCN0275-082-0315-3D-PICCO	0.276 - 0.291	0.315	0.8665	0.03966	0.787	2.189	7.0	ICP-0276	ICP-0291
DCN0295-089-0315-3D-PICCO	0.295 - 0.311	0.315	0.9488	0.04330	0.787	2.248	7.0	ICP-0295	ICP-0311
DCN0315-094-0315-3D-PICCO	0.315 - 0.331	0.315	0.9921	0.04724	0.787	2.339	8.0	ICP-0315	ICP-0331
DCN0335-102-0315-3D-PICCO	0.335 - 0.350	0.315	1.0374	0.05314	0.787	2.398	8.0	ICP-0335	ICP-0350
DCN0354-106-0315-3D-PICCO	0.354 - 0.370	0.315	1.1161	0.05314	0.787	2.492	9.0	ICP-0354	ICP-0370
DCN0374-112-0315-3D-PICCO	0.374 - 0.390	0.315	1.1984	0.05669	0.787	2.531	9.0	ICP-0374	ICP-0390
DCN0394-118-0315-3D-PICCO	0.394 - 0.409	0.315	1.2402	0.05905	0.787	2.606	10.0	ICP-0394	ICP-0409
DCN0413-124-0315-3D-PICCO	0.413 - 0.429	0.315	1.2992	0.05937	0.787	2.665	10.5	ICP-0413	ICP-0429

(1) Seat Size Code (2) Also accepts the following inserts: ICK, ICM, ICP-2M, ICK-2M, FCP, HCP-IQ, QCP-2M

Member IMC Group

SUMO CHAM DRILLING HEADS

- ICP** - For use on Carbon and Alloy Steel
- ICP- 2M** - For use on Carbon and Alloy Steel
- ICK** - For use on Cast Iron
- ICK-2M** - For use on Cast Iron
- HCP-IQ** - For Alloy Steel & Cast Iron (Self Centering)
- ICM** - For use on Stainless & High Temperature Alloys
- ICN** - For use on Aluminum
- IHP-BD** - For use on Carbon and Alloy Steel Self Centering For thin walled parts
- IHP** - For use on Carbon and Alloy Steel
- ICG** - Chip splitting head for use on Steel and Stainless Steel
- QCP-2M** - Double margin Self Centering for Carbon and Alloy Steels for high surface finish

Member IMC Group

SUMO CHAM MULTI-MASTER

DCN-MM: Modular SUMO CHAM Drills are Dedicated for Multi-Spindle and Swiss-Type Machines with a MULTI-MASTER Connection

PART #	DCN ⁽²⁾	DCX ⁽³⁾	DCNMS	LU	LPR	PL	OAL	THSZMS	SSC ⁽⁴⁾	INSERTS ⁽⁵⁾	
										FROM	TO
DCN-0157-031-MMT05-2D ⁽¹⁾	0.157	0.173	0.299	0.3394	0.866	0.02440	1.132	T05	4.0	ICP-0157	ICP-0173
DCN-0177-035-MMT05-2D ⁽¹⁾	0.177	0.193	0.299	0.3803	0.917	0.02598	1.183	T05	4.5	ICP-0177	ICP-0193
DCN-0197-039-MMT06-2D ⁽¹⁾	0.197	0.213	0.378	0.4224	1.075	0.02874	1.321	T06	5.0	ICP-0197	ICP-0213
DCN-0216-043-MMT06-2D ⁽¹⁾	0.217	0.232	0.378	0.4650	1.083	0.03188	1.331	T06	5.5	ICP-0216	ICP-0232
DCN-0236-047-MMT06-2D	0.236	0.252	0.378	0.5102	1.098	0.03779	1.346	T06	6.0	ICP-0236	ICP-0252
DCN-0256-051-MMT06-2D	0.256	0.272	0.378	0.5583	1.161	0.04645	1.409	T06	6.5	ICP-0256	ICP-0272
DCN-0275-055-MMT06-2D	0.276	0.291	0.378	0.5909	1.185	0.03976	1.433	T06	7.0	ICP-0275	ICP-0291
DCN-0295-059-MMT06-2D	0.295	0.311	0.378	0.6303	1.224	0.04330	1.472	T06	7.5	ICP-0295	ICP-0311
DCN-0315-063-MMT06-2D	0.315	0.331	0.378	0.6764	1.295	0.04724	1.543	T06	8.0	ICP-0315	ICP-0331
DCN-0335-067-MMT06-2D	0.335	0.350	0.378	0.7201	1.335	0.05078	1.582	T06	8.5	ICP-0335	ICP-0350
DCN-0354-071-MMT06-2D	0.354	0.370	0.457	0.7618	1.472	0.05314	1.768	T08	9.0	ICP-0354	ICP-0370
DCN-0374-075-MMT08-2D	0.374	0.390	0.457	0.8047	1.512	0.05669	1.807	T08	9.5	ICP-0374	ICP-0390
DCN-0394-079-MMT08-2D	0.394	0.409	0.457	0.8465	1.567	0.05905	1.862	T08	10.0	ICP-0394	ICP-0429

METRIC DRILLS

PART #	DCN ⁽²⁾	DCX ⁽³⁾	DCNMS	LU	LPR	PL	OAL	THSZMS	SSC ⁽⁴⁾	MID ⁽⁵⁾
DCN-040-006-MMT05-2D ⁽¹⁾	4.00	4.40	7.60	8.62	22.00	0.620	28.75	T05	4.0	ICP-040
DCN-045-009-MMT05-2D ⁽¹⁾	4.50	4.90	7.60	9.66	23.30	0.660	30.05	T05	4.5	ICP-045
DCN-050-010-MMT06-2D ⁽¹⁾	5.00	5.40	9.60	10.73	27.30	0.730	33.55	T06	5.0	ICP-050
DCN-055-011-MMT06-2D ⁽¹⁾	5.50	5.90	9.60	11.81	27.50	0.810	33.80	T06	5.5	ICP-055
DCN-060-012-MMT06-2D	6.00	6.40	9.60	12.96	27.90	0.960	34.20	T06	6.0	ICP-060
DCN-065-013-MMT06-2D	6.50	6.90	9.60	14.18	29.50	1.180	35.80	T06	6.5	ICP-065
DCN-070-014-MMT06-2D	7.00	7.40	9.60	15.01	30.10	1.100	36.39	T06	7.0	ICP-070
DCN-075-015-MMT06-2D	7.50	7.90	9.60	16.01	31.10	1.100	37.40	T06	7.5	ICP-075
DCN-080-016-MMT06-2D	8.00	8.40	9.60	17.18	32.90	1.200	39.19	T06	8.0	ICP-080
DCN-085-017-MMT06-2D	8.50	8.90	9.60	18.29	33.90	1.290	40.19	T06	8.5	ICP-085
DCN-090-018-MMT08-2D	9.00	9.40	11.60	19.35	37.40	1.350	44.90	T08	9.0	ICP-090
DCN-095-019-MMT08-2D	9.50	9.90	11.60	20.44	38.40	1.440	45.90	T08	9.5	ICP-095
DCN 100-020-MMT08-2D	10.00	10.40	11.60	21.50	39.80	1.500	47.30	T08	10.0	ICP-100

(1) The SK DCN key is supplied with the insert (2) Cutting diameter minimum (3) Cutting diameter maximum (4) Seat size code (5) Master insert identification (6) Also accepts the following inserts: FCP, HCP-IQ, QCP-2M

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Six Positive Cutting Edged Insert for Semi Finishing and Finishing Guarantees **Excellent Surface Quality**

Positive insert, easy soft cut, less cutting forces with low power consumption, reduces burrs on steel, stainless steel and titanium parts.

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Use Promo Code: **T2409**

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20 D6NMG 16 (33...) in any assortment*

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25% Additional discount

on inserts

* Applies to holders with insert size 1604... (33..)



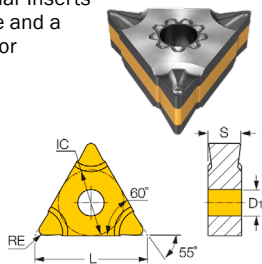
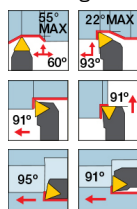
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Inserts Fit in Standard Holders and Boring Bars That Accept TNMG Inserts

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D6NMG-F3P

Double-Sided Triangular Inserts with 55° Corner Angle and a Positive Rake Angle, for Finishing Steels



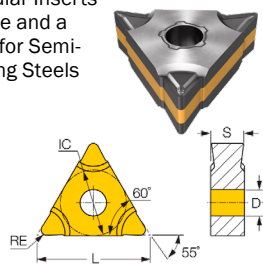
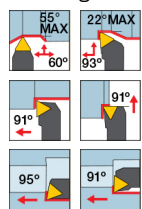
Available in Carbide Grades

PART #	L	IC	S	RE	D1	CARBIDE GRADES		
						TOUGH	←	HARD
D6NMG-331-F3P	0.648	0.375	0.187	0.0157	0.150	IC830	←	IC807
D6NMG-332-F3P	0.648	0.375	0.187	0.0315	0.150	IC830	←	IC807

The LOGIQ6-TURN Inserts Fit Standard Holders That Take TNMG Inserts

D6NMG-M3P

Double-Sided Triangular Inserts with 55° Corner Angle and a Positive Rake Angle, for Semi-Finishing and Finishing Steels



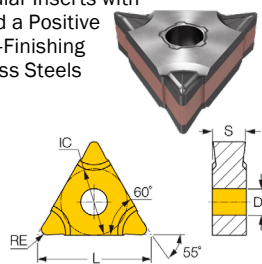
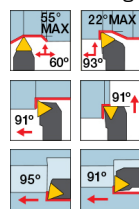
Available in Carbide Grades

PART #	L	IC	S	RE	D1	CARBIDE GRADES		
						TOUGH	←	HARD
D6NMG-331-M3P	0.648	0.375	0.187	0.0157	0.150	IC830	←	IC807
D6NMG-332-M3P	0.648	0.375	0.187	0.0315	0.150	IC830	←	IC807

The LOGIQ6-TURN Inserts Fit Standard Holders That Take TNMG Inserts

D6NMG-M3M

Double-Sided Triangular Inserts with 55° Corner Angle and a Positive Rake Angle, for Semi-Finishing and Finishing Stainless Steels



Available in Carbide Grades

PART #	L	IC	S	RE	D1	CARBIDE GRADES		
						TOUGH	←	HARD
D6NMG-331-M3M	0.648	0.375	0.187	0.0157	0.150	IC830	←	IC807
D6NMG-332-M3M	0.648	0.375	0.187	0.0315	0.150	IC830	←	IC807

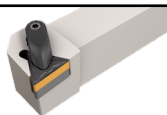
The LOGIQ6-TURN Inserts Fit Standard Holders That Take TNMG Inserts



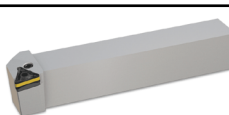
MTJNR/L



MTJNR/L-W



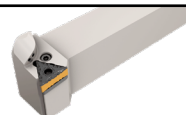
DTGNR/L



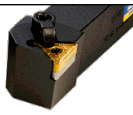
PTGNR/L-X



MTENN-W



PTGNR/L-X-JHP



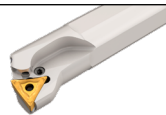
MTGNR



PTFNR-CA



A-MTFNR



A-PTFNR/L-X/G



AVC-PTLNR/L





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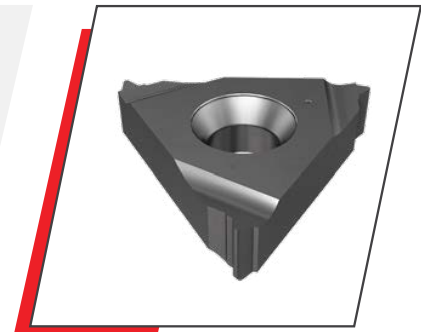
10 threading laydown ER/EL/IR/IL 08/11/16/22 assorted inserts

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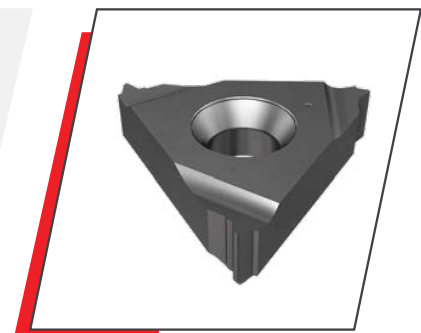
20 threading laydown ER/EL/IR/IL 08/11/16/22 assorted inserts

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ISCAR THREAD LAYDOWN THREADING SYSTEMS

MAIN INSERT TYPES



M-Type
B-Type



Regular Type



U-Type

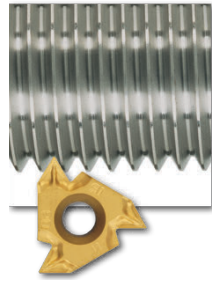
M-Type: With chipformer

B-Type: Peripherally ground and with a chipformer

Use M-Type or B-Type in most general use applications.
Use regular type in stainless steels and hard to machine materials.

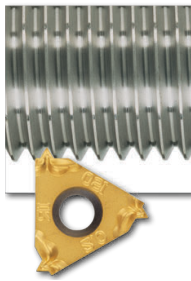
TYPES AND PROFILES OF THREADING INSERTS

Partial Profile



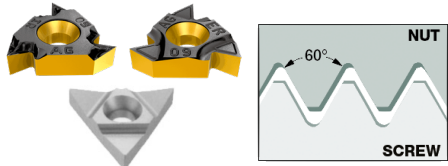
- Performs different thread standards and suitable for a wide range of pitches which have a common angle (60° or 55°).
- Inserts with small root-corner radius suitable for the smallest pitch of the range.
- Additional operation to complete the outer/internal diameter is necessary.
- Not recommended for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

Full Profile



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

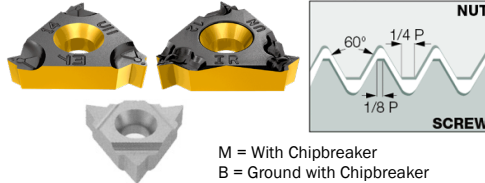
PARTIAL PROFILE 60°



I.C.	PITCH RANGE		PART #	
	mm	TPI	INTERNAL*	EXTERNAL*
5/32"	0.5-1.25	48-20	06IR/L-A-60	-
	0.5-1.25	48-20	06IR/LM-A-60	-
3/16"	0.5-1.5	48-16	08IR/L-A-60	-
	0.5-1.5	48-16	08IR/LM-A-60	-
1/4"	0.5-1.5	48-16	11IR/L-A-60	11ER/L-A-60
	0.5-1.5	48-16	11IR/LM-A-60	-
3/8"	0.5-1.5	48-16	16IR/L-A-60	16ER/L-A-60
	0.5-1.5	48-16	16IR/LB/M-A-60	16ER/LB/M-A-60
	1.75-3.0	14-8	16IR/L-G-60	16ER/L-G-60
	1.75-3.0	14-8	16IR/LB/M-G-60	16ER/LB/M-G-60
	0.5-3.0	48-8	16IR/L-AG-60	16ER/L-AG-60
	0.5-3.0	48-8	16IR/LB/M-AG-60	16ER/LB/M-AG-60
1/2"	3.5-5.0	7-5	22IR/L-N-60	22ER/L-N-60
	3.5-5.0	7-5	22IR/LM-N-60	22ER/LM-N-60
5/8"	5.5-6.0	4-5	27IR/L-Q-60	27ER/L-Q-60
3/16" U	1.75-2.0	14-11	08UIRL-U-60	-
1/2" U	5.5-8.0	4-5-3-25	22UEIRL-U-60	
5/8" U	6.5-9.0	4-2-75	27UEIRL-U-60	

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

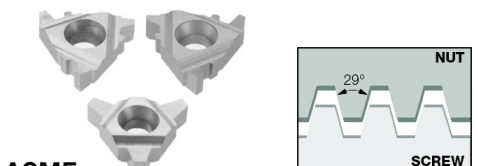
FULL PROFILE 60° UN



M = With Chipbreaker
B = Ground with Chipbreaker

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	32	06IR/L-32-UN	-
	28	06IR/L-28-UN	-
	24	06IR/L-24-UN	-
	20	06IR/L-20-UN	-
	18	06IR/L-18-UN	-
	16	06IR/L-16-UN	-
3/16"	32	08IR/L-32-UN	-
	28	08IR/L-28-UN	-
	24	08IR/L-24-UN	-
	20	08IR/L-20-UN	-
	18	08IR/L-18-UN	-
	16	08IR/L-16-UN	-
	14	08IR/L-14-UN	-
	13	08UIR/L-13-UN	-
	12	08UIR/L-12-UN	-
	11	08UIR/L-11-UN	-
	72	11IR/L-72-UN	-
	64	11IR/L-64-UN	-
1/4"	56	11IR/L-56-UN	11ER/L-56-UN
	48	11IR/L-48-UN	11ER/L-48-UN
	44	11IR/L-44-UN	11ER/L-44-UN
	40	11IR/L-40-UN	11ER/L-40-UN
	36	11IR/L-36-UN	11ER/L-36-UN
	32	11IR/L-32-UN	11ER/L-32-UN
	28	11IR/L-28-UN	11ER/L-28-UN
	24	11IR/L-24-UN	11ER/L-24-UN
	20	11IR/L-20-UN	11ER/L-20-UN
	18	11IR/L-18-UN	11ER/L-18-UN
	16	11IR/L-16-UN	11ER/L-16-UN
	14	11IR/L-14-UN	-
	56	16IR/L-56-UN	16ER/L-56-UN
	48	16IR/L-48-UN	16ER/L-48-UN
3/8"	44	16IR/L-44-UN	-
	40	16IR/L-40-UN	16ER/L-40-UN
	36	16IR/L-36-UN	16ER/L-36-UN
	32	16IR/L-32-UN	16ER/L-32-UN
	28	16IR/L-28-UN	16ER/L-28-UN
	24	16IR/L-24-UN	16ER/L-24-UN
	20	16IR/L-20-UN	16ER/L-20-UN
	18	16IR/L-18-UN	16ER/L-18-UN
	16	16IR/L-16-UN	16ER/L-16-UN
	14	16IR/L-14-UN	16ER/L-14-UN
	13	16IR/L-13-UN	16ER/L-13-UN
	12	16IR/L-12-UN	16ER/L-12-UN
	11	16IR/L-11-UN	16ER/L-11-UN
	11.5	16IR/L-11.5-UN	16ER/L-11.5-UN
	11	16IR/L-11-UN	16ER/L-11-UN
	11	16IR/L-11-UN	16ER/L-11-UN
	10	16IR/L-10-UN	16ER/L-10-UN
	10	16IR/L-10-UN	16ER/L-10-UN
1/2"	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
	8	22IR/L-8-UN	22ER/L-8-UN
5/8"	4.5	27IR/L-4.5-UN	27ER/L-4.5-UN
	4	27IR/L-4-UN	27ER/L-4-UN
	4.5	27UIRL-4.5-UN	27UEIRL-4.5-UN
	4	27UIRL-4-UN	27UEIRL-4-UN
	4	27UIRL-4-UN	27UEIRL-4-UN
	3	27UIRL-3-UN	27UEIRL-3-UN

ACME & STUB ACME



ACME

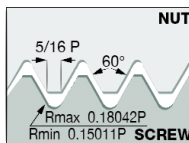
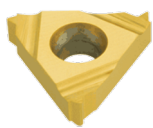
I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
3/8"	16	16IR/L-16-ACME	16ER/L-16-ACME
	14	16IR/L-14-ACME	16ER/L-14-ACME
	12	16IR/L-12-ACME	16ER/L-12-ACME
	10	16IR/L-10-ACME	16ER/L-10-ACME
	8	16IR/L-8-ACME	16ER/L-8-ACME
	6	22IR/L-6-ACME	22ER/L-6-ACME
1/2"	5	22IR/L-5-ACME	22ER/L-5-ACME
	4	27IR/L-4-ACME	27ER/L-4-ACME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

STUB ACME

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

UNJ

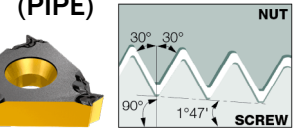
Application: Aircraft
and Aerospace Industry



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

NPT & NPTF

(PIPE)



NPT

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	27	06IR/L-27-NPT	-
3/16"	18	08IR/L-18-NPT	-
1/4"	27	11IR/L-27-NPT	-
	18	11IR/L-18-NPT	-
	14	11IR/L-14-NPT	-
3/8"	27	16IR/L-27-NPT	16ER/L-27-NPT
	18	16IR/L-18-NPT	16ER/L-18-NPT
	18	-	16ER/LB/M-18-NPT
	14	16IR/L-14-NPT	16ER/L-14-NPT
	14	16IR/LB/M-14-NPT	16ER/LB/M-14-NPT
	11.5	16IR/L-11.5-NPT	16ER/L-11.5-NPT
	11.5	16IR/LB/M-11.5-NPT	16ER/LB/M-11.5-NPT
	8	16IR/L-8-NPT	16ER/L-8-NPT
	8	16IR/LB/M-8-NPT	16ER/LB/M-8-NPT

NPTF

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	27	06IR/L-27-NPTF	-
3/16"	27	08IR/L-27-NPTF	-
1/4"	27	11IR/L-27-NPTF	11ER/L-27-NPTF
	18	11IR/L-18-NPTF	11ER/L-18-NPTF
	14	11IR/L-14-NPTF	11ER/L-14-NPTF
3/8"	27	16IR/L-27-NPTF	16ER/L-27-NPTF
	18	16IR/L-18-NPTF	16ER/L-18-NPTF
	14	16IR/L-14-NPTF	16ER/L-14-NPTF
	11.5	16IR/L-11.5-NPTF	16ER/L-11.5-NPTF



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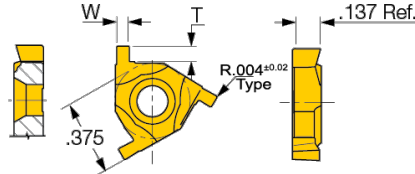
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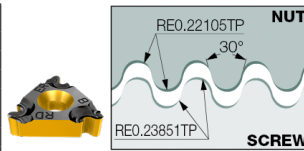


I.C.	T	PRECISION		UTILITY (M-TYPE)	
		W±.0008	PART #	W±.002	PART #
3/8"	0.061	0.0394	GTGA-16ER/L-100	0.047	GTMA-16ER/L-120
	0.063	0.0472	GTGA-16ER/L-120	0.055	GTMA-16ER/L-140
	0.071	0.0551	GTGA-16ER/L-140	0.063	GTMA-16ER/L-160
	0.079	0.0669	GTGA-16ER/L-170	0.069	GTMA-16ER/L-175
	0.079	0.0768	GTGA-16ER/L-195	0.077	GTMA-16ER/L-195
	0.083	0.0886	GTGA-16ER/L-225	0.087	GTMA-16ER/L-222

For ER/IL Use anvil AE 16-0, For EL/IR use anvil AL 16-0

ROUND DIN 405

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
3/8"	10	16IR/L-10-RND	16ER/L-10-RND
	8	16IR/L-8-RND	16ER/L-8-RND
	6	16IRM-8-RND	16ERM-8-RND
	6	16IR/L-6-RND	16ER/L-6-RND
	6	16IR/LM-6-RND	16ER/LM-6-RND
	6	16IR/L-6-RND	16ER/L-6-RND
1/2"	6	22IR/L-6-RND	22ER/L-6-RND
	4	22IR/L-4-RND	22ER/L-4-RND
5/8"	4	27IR/L-4-RND	27ER/L-4-RND



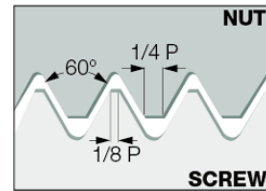
NOTE: For API Round
See table on right

*R=R.H. L=L.H.

ISO METRIC FULL PROFILE 60°

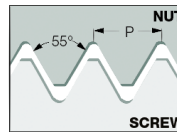


I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	0.50	06IR/L-0.50-ISO	-
	0.75	06IR/L-0.75-ISO	-
	1.00	06IR/L-1.00-ISO	-
	1.25	06IR/L-1.25-ISO	-
3/16"	0.50	08IR/L-0.50-ISO	-
	0.75	08IR/L-0.75-ISO	-
	1.00	08IR/L-1.00-ISO	-
	1.25	08IR/L-1.25-ISO	-
3/16" U	2.00	08UIR/L-2.00-ISO	-
	0.35	11IR/L-0.35-ISO	11ER/L-0.35-ISO
	0.40	11IR/L-0.40-ISO	11ER/L-0.40-ISO
	0.45	11IR/L-0.45-ISO	11ER/L-0.45-ISO
1/4"	0.50	11IR/L-0.50-ISO	11ER/L-0.50-ISO
	0.60	11IR/L-0.60-ISO	11ER/L-0.60-ISO
	0.70	11IR/L-0.70-ISO	11ER/L-0.70-ISO
	0.75	11IR/L-0.75-ISO	11ER/L-0.75-ISO
	0.80	11IR/L-0.80-ISO	11ER/L-0.80-ISO
	1.00	11IR/L-1.00-ISO	11ER/L-1.00-ISO
	1.25	11IR/L-1.25-ISO	11ER/L-1.25-ISO
	1.50	11IR/L-1.50-ISO	11ER/L-1.50-ISO
	1.50	11IR/LM-1.50-ISO	-
	1.75	11IR/L-1.75-ISO	11ER/L-1.75-ISO
	2.00	11IR/L-2.00-ISO	-
3/8"	0.35	16IR/L-0.35-ISO	16ER/L-0.35-ISO
	0.40	16IR/L-0.40-ISO	16ER/L-0.40-ISO
	0.45	16IR/L-0.45-ISO	16ER/L-0.45-ISO
	0.50	16IR/L-0.50-ISO	16ER/L-0.50-ISO
	0.60	16IR/L-0.60-ISO	16ER/L-0.60-ISO
	0.70	16IR/L-0.70-ISO	16ER/L-0.70-ISO
	0.75	16IR/L-0.75-ISO	16ER/L-0.75-ISO
	0.80	16IR/L-0.80-ISO	16ER/L-0.80-ISO
	0.80	16IR/LM-0.80-ISO	16ERB-0.80-ISO
	1.00	16IR/L-1.00-ISO	16ER/L-1.00-ISO
	1.00	16IR/LB/M-1.00-ISO	16ER/LB/M-1.00-ISO
	1.25	16IR/L-1.25-ISO	16ER/L-1.25-ISO
	1.25	16IR/LB/M-1.25-ISO	16ER/LB/M-1.25-ISO
	1.50	16IR/L-1.50-ISO	16ER/L-1.50-ISO
	1.50	16IR/LB/M-1.50-ISO	16ER/LB/M-1.50-ISO
	1.75	16IR/L-1.75-ISO	16ER/L-1.75-ISO
	1.75	16IR/LB/M-1.75-ISO	16ER/LB/M-1.75-ISO
	2.00	16IR/L-2.00-ISO	16ER/L-2.00-ISO
	2.00	16IR/LB/M-2.00-ISO	16ER/LB/M-2.00-ISO
	2.50	16IR/L-2.50-ISO	16ER/L-2.50-ISO
	2.50	16IR/LB/M-2.50-ISO	16ER/LB/M-2.50-ISO
	3.00	16IR/L-3.00-ISO	16ER/L-3.00-ISO
	3.00	16IR/LB/M-3.00-ISO	16ER/LB/M-3.00-ISO



I.C.	PITCH mm	PART #	
		INTERNAL	EXTERNAL
1/2"	3.50	22IR/L-3.50-ISO	22ER/L-3.50-ISO
	3.50	22IR/LM-3.50-ISO	22ER/LM-3.50-ISO
	4.00	22IR/L-4.00-ISO	22ER/L-4.00-ISO
	4.00	22IR/LM-4.00-ISO	22ER/LM-4.00-ISO
	4.50	22IR/L-4.50-ISO	22ER/L-4.50-ISO
5/8"	5.00	22IR/L-5.00-ISO	22ER/L-5.00-ISO
	5.50	27IR/L-5.50-ISO	27ER/L-5.50-ISO
	6.00	27IR/L-6.00-ISO	27ER/L-6.00-ISO
1/2" U	5.50	22UIR/L-5.50-ISO	22UER/L-5.50-ISO
	6.00	22UIR/L-6.00-ISO	22UER/L-6.00-ISO
5/8" U	8.00	27UIR/L-8.00-ISO	27UER/L-8.00-ISO

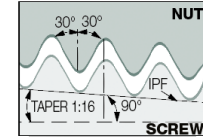
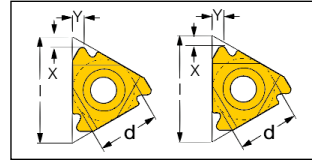
55° PARTIAL PROFILE



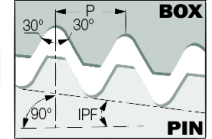
I.C.	PITCH RANGE mm	TPI	PART #	
			INTERNAL	EXTERNAL
5/32"	0.5-1.25	48-20	06IR/L-A-55	-
3/16"	0.5-1.5	48-16	08IR/L-A-55	-
1/4"	0.5-1.5	48-16	11IR/L-A-55	11ER/L-A-55
	0.5-1.5	48-16	16IR/L-A-55	16ER/L-A-55
3/8"	1.75-3.0	14-8	16IR/L-G-55	16ER/L-G-55
	1.75-3.0	14-8	16IR/LB/M-G-55	16ER/LB/M-G-55
	0.5-3.0	48-8	16IR/L-A-G-55	16ER/L-A-G-55
	0.5-3.0	48-8	16IR/LB/M-A-G-55	16ER/LB/M-A-G-55
1/2"	3.5-5.0	7-5	22IR/L-N-55	22ER/L-N-55
	5.5-6.0	4.5-4	27IR/L-Q-55	27ER/L-Q-55
3/16" U	1.75-2.0	14-11	08UIR/L-U-55	-
1/2" U	5.5-8.0	4.5-3.25	22UIR/L-U-55	
	6.5-9.0	4-2.75	27UIR/L-U-55	

API INSERTS - OIL FIELD THREADS

Application: Oil & Gas Industry



API Round



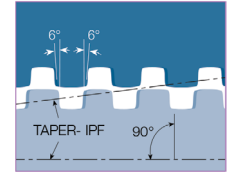
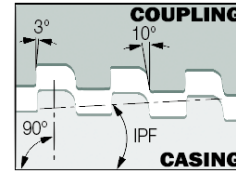
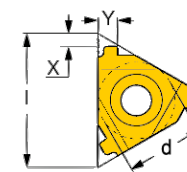
V.038

8 & 10 ROUND (API)

THREAD FORM	I.C.	PITCH TPI	PART #		I	TAPER IPF	CONNECTION NO. OR SIZE
			EXTERNAL	INTERNAL			
API ROUND	3/8"	10	16ER/L-10-API-RD	16IR/L-10-API-RD	0.630	0.75	-
API ROUND	3/8"	8	16ER/L-8-API-RD	16IR/L-8-API-RD	.630	0.75	-

V-0.038, V-0.040, V-0.050 (API)

V-0.040	1/2"	5	22ER/L-5-API-03	22IR/L-5-API-03	0.866	3	2.3/8"-4.1/2" REG
V-0.038R	5/8"	4	27ER/L-4-API-382	27IR/L-4-API-382	1.063	2	NC23-NC50
V-0.038R		4	27ER/L-4-API-383	27IR/L-4-API-383	1.063	3	NC56-NC77
V-0.050		4	27ER/L-4-API-502	27IR/L-4-API-502	1.063	2	6.5/8" REG
V-0.050	5/8"	4	27ER/L-4-API-503	27IR/L-4-API-503	1.063	3	5.1/2", 7.5/8", 8.5/8" REG



BUTTRESS (API)

Buttress Casing

Extreme Line Casing

THREAD FORM	I.C.	TAPER IPF	PITCH TPI	PART #		I	CONNECTION NO. OR SIZE
				EXTERNAL	INTERNAL		
BUTTRESS	1/2"	0.75	5	22ER-5-BUT-0.75	22IR-5-BUT-0.75	0.866	4.1/2"-13.3/8"
		1.00	5	22ER-5-BUT-1.0	22IR-5-BUT-1.0	0.866	16"-20"

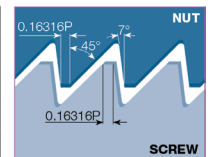
EXTREME LINE CASING (API)

EXTREME LINE CASING	1/2"	1.50	6	22ER-6-EL-1.5	22IR-6-EL-1.5	0.866	5"-7.5/8"
		1.25	5	22ER-5-EL-1.25	22IR-5-EL-1.25	0.866	8.5/8"-10.3/4"

AMERICAN BUTTRESS



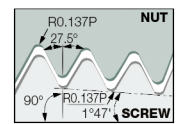
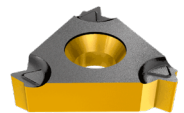
I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
1/4"	20	11IR-20-ABUT	11ER-20-ABUT
	16	11IR/L-16-ABUT	11ER/L-16-ABUT
3/8"	20	16IR-20-ABUT	16ER-20-ABUT
	16	16IR/L-16-ABUT	16ER/L-16-ABUT
	12	16IR/L-12-ABUT	16ER/L-12-ABUT
	10	16IR/L-10-ABUT	16ER/L-10-ABUT
1/2"	8	22IR-8-ABUT	22ER-8-ABUT
	6	22IR/L-6-ABUT	22ER/L-6-ABUT
1/2" U	4	22UIR-4-ABUT	22UER-4-ABUT
	3	27UIR/L-3-ABUT	27UER-3-ABUT



Application: At high forces in one direction

BSPT (British Standard pipe) FULL PROFILE

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	28	06IR-28-BSPT	-
3/16"	28	08IR-28-BSPT	-
	19	08IR-19-BSPT	-
1/4"	28	11IR-28-BSPT	-
	19	11IR-19-BSPT	-
	14	11IR/L-14-BSPT	-
	14	16IR-28-BSPT	16ER-28-BSPT
3/8"	19	16IR-19-BSPT	16ER-19-BSPT
	14	16IR/L-14-BSPT	16ER/L-14-BSPT
	14	16IRB/M-14-BSPT	16ERB/M-14-BSPT
	11	16IR/L-11-BSPT	16ER/L-11-BSPT
	11	16IRB/M-11-BSPT	16ERB/M-11-BSPT



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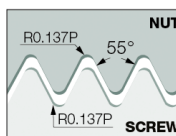
ISCAR THREAD LAYDOWN THREADING SYSTEMS

WHITWORTH

Full Profile (BSW, BSF, BSP)

M-Type

Regular Type

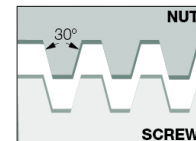


I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
5/32"	26	06IR-26-W	-
	20	06IR-20-W	-
	18	06IR-18-W	-
3/16"	24	08IR-24-W	-
	19	08IR/L-19-W	-
	16	08IR-16-W	-
3/16" U	12	08UIR/L-12-W	-
	36	11IR-36-W	11ER-36-W
	28	11IR-28-W	-
1/4"	26	11IR-26-W	-
	24	11IR/L-24-W	-
	20	11IR-20-W	11ER-20-W
	19	11IR-19-W	11ER/L-19-W
	18	11IR/L-18-W	11ER-18-W
	16	11IR-16-W	11ER-16-W
	14	11IR/L-14-W	11ER-14-W
	12	11IL-12-W	-
3/8"	40	16IR-40-W	16ER-40-W
	32	16IR/L-32-W	16ER/L-32-W
	28	16IR-28-W	16ER/L-28-W
	26	16IR-26-W	16ER-26-W
	24	16IR/L-24-W	16ER/L-24-W
	22	16IR/L-22-W	16ER/L-22-W
	20	16IR/L-20-W	16ER-20-W
	20	16IRM-20-W	-

I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
3/8"	19.0	16IR/L-19W	16ER/L-19W
	19.0	16IR/LM-19W	16ER/LB/M-19W
	19.0	16IRB-19W	-
	18.0	16IR/L-18W	16ER/L-18W
	16.0	16IR/L-16W	16ER-16W
	16.0	16IR/LM-16W	16ER/LB/M-16W
	16.0	16IRB-16W	-
	14.0	16IR/L-14W	16ER/L-14W
	14.0	16IR/LM-14W	16ER/LB/M-14W
	14.0	16IRB-14W	-
	12.0	16IR/L-12W	16ER/L-12W
	11.0	16IR/L-11W	16ER-11W
1/2"	11.0	16IR/LM-11W	16ER/LB/M-11W
	11.0	16IRB-11W	-
	10.0	16IR/L-10W	16ER/L-10W
	10.0	16IRB-11W	16ERB-10W
	9.0	16IR/L-9W	16ER-9W
	8.0	16IR/L-8W	16ER/L-8W
	7.0	22IR-7W	22ER-7W
	6.0	22IR-6W	22ER-6W
5/8"	5.0	22IR/L-5W	22ER-5W
	4.5	27IR-4.5W	27ER/L-4.5W
1/2" U	4.0	27IR-4W	27ER/L-4W
	4.5	-	22UEIR/L-4.5W
5/8" U	4.0	-	22UEIR/L-4W
	4.5	-	27ER-4.5W
	4.0	-	27ER-4W
	3.5	-	27UEIR/L-3.5W
5/8" U	3.0	-	27UEIR/L-3W

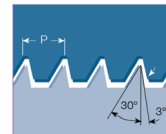
TRAPEZE DIN 103

U-Type



I.C.	PITCH TPI	PART #	
		INTERNAL	EXTERNAL
3/16"	1.5	08IR/L-1.5-TR	-
	1.5	16IR/L-1.5-TR	16ER/L-1.5-TR
	2.0	16IR/L-2-TR	16ER/L-2-TR
3/8"	3.0	16IR/L-3-TR	16ER/L-3-TR
	4.0	22IR/L-4-TR	22ER/L-4-TR
	5.0	22IR/L-5-TR	22ER/L-5-TR
1/2"	6.0	22IR/L-6-TR	22ER/L-6-TR
	2.0	08UIR/L-1.5-TR	-
1/2" U	6.0	22UIR/L-6-TR	22UER/L-6-TR
	7.0	22UIR/L-7-TR	22UER/L-7-TR
	8.0	22UIR/L-8-TR	22UER/L-8-TR
5/8" U	8.0	27UIR/L-8-TR	27UER/L-8-TR
	9.0	27UIR/L-9-TR	27UER/L-9-TR
	10.0	27UIR/L-10-TR	27UER/L-10-TR

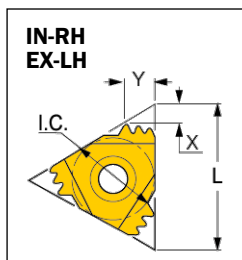
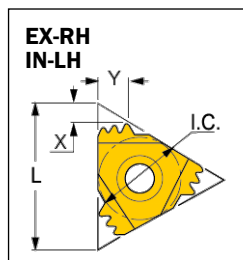
SAGENGENWINDE DIN 513



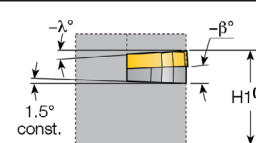
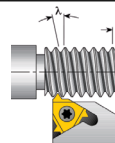
I.C.	PITCH mm	PART #	
		INTERNAL	EXTERNAL
3/8"	2.0	16IR/L-2-SAGE	16ER/L-2-SAGE
	3.0	22IR/L-3-SAGE	22ER/L-3-SAGE
1/2"	4.0	22IR/L-4-SAGE	22ER/L-4-SAGE
	5.0	22UIR/L-5-SAGE	22UER/L-5-SAGE
1/2" U	6.0	22UIR/L-6-SAGE	22UER/L-6-SAGE



MULTI TOOTH INSERTS



THREAD HELIX ANGLE AND ANVIL SELECTION



Anvil Selection According to Thread Helix Angle λ

STANDARD								
THREAD HELIX ANGLE λ		>4°	3-4°	2-3°	1-2°	0-1°	NEGATIVE ANVILS	
INSERT I.C.	ANGLE β	4.5°	3.5°	2.5°	1.5°	0.5°	-0.5°	-1.5°
	ANVIL ANGLE	3°	2°	1°	0°	-1°	-2°	-3°
	TOOLHOLDER	ANVIL DESIGNATION (PART # 1-000-)						
16 (3/8)	EX RH OR IN LH EX LH OR IN RH	AE16+4.5 AI16+4.5	AE16+3.5 AI16+3.5	AE16+2.5 AI16+2.5	AE-16 AI-16	AE16+0.5 AI16+0.5	AE16-0.5 AI16-0.5	AE16-1.5 AI16-1.5
22 (1/2)	EX RH OR IN LH EX LH OR IN RH	AE22+4.5 AI22+4.5	AE22+3.5 AI22+3.5	AE22+2.5 AI22+2.5	AE-22 AI-22	AE22+0.5 AI22+0.5	AE22-0.5 AI22-0.5	AE22-1.5 AI22-1.5
27 (5/8)	EX RH OR IN LH EX LH OR IN RH	AE27+4.5 AI27+4.5	AE27+3.5 AI27+3.5	AE27+2.5 AI27+2.5	AE-27 AI-27	AE27+0.5 AI27+0.5	AE27-0.5 AI27-0.5	AE27-1.5 AI27-1.5
22U (1/2U)	EX RH OR IN LH EX LH OR IN RH	AE22U+4.5 AI22U+4.5	AE22U+3.5 AI22U+3.5	AE22U+2.5 AI22U+2.5	AE-22U AI-22U	AE22U+0.5 AI22U+0.5	AE22U-0.5 AI22U-0.5	AE22U-1.5 AI22U-1.5
27U (5/8U)	EX RH OR IN LH EX LH OR IN RH	AE27U+4.5 AI27U+4.5	AE27U+3.5 AI27U+3.5	AE27U+2.5 AI27U+2.5	AE-27U AI-27U	AE27U+0.5 AI27U+0.5	AE27U-0.5 AI27U-0.5	AE27U-1.5 AI27U-1.5

Anvils for positive inclination β angle β applicable when turning RH thread with RH holders or LH thread with LH toolholders.
Anvils for negative inclination β angle β applicable when turning RH thread with LH holder or LH thread with RH toolholder.

UN

PITCH TPI	L mm	I.C. inch	NO. OF TEETH	PART #		X	Y
				EXTERNAL	INTERNAL		
16	16	3/8	2	16ER-16-UN-2M	16IR-16-UN-2M	0.06	0.09
16	16	3/8	3	22ER-16-UN-3M	22IR-16-UN-3M	0.10	0.16
12	22	1/2	2	22ER-12-UN-2M	22IR-12-UN-2M	0.09	0.13
12	22	1/2	3	22ER-12-UN-3M	22IR-12-UN-3M	0.13	0.21
8	27	5/8	2	27ER-8-UN-2M	27IR-8-UN-2M	0.12	0.19

ISO-METRIC

PITCH TPI	L mm	I.C. inch	NO. OF TEETH	PART #		X	Y
				EXTERNAL	INTERNAL		
1.0	16	3/8	3	16ER-1.0-ISO-3M	16IR-1.0-ISO-3M	0.07	0.10
1.5	16	3/8	2	16ER-1.5-ISO-2M	16IR-1.5-ISO-2M	0.06	0.09
1.5	16	3/8	3	22ER-1.5-ISO-3M	22IR-1.5-ISO-3M	0.09	0.15
2.0	22	1/2	2	22ER-2.0-ISO-2M	22IR-2.0-ISO-2M	0.08	0.12
2.0	22	1/2	3	22ER-2.0-ISO-3M	22IR-2.0-ISO-3M	0.12	0.20
3.0	27	5/8	2	27ER-3.0-ISO-2M	27IR-3.0-ISO-2M	0.11	0.18

NPT

PITCH TPI	L mm	I.C. inch	NO. OF TEETH	PART #		X	Y
				EXTERNAL	INTERNAL		
11.5	22	1/2	2	22ER-11.5-NPT-2M	22IR-11.5-NPT-2M	0.09	0.14
11.5	22	1/2	3	27ER-11.5-NPT-3M	27IR-11.5-NPT-3M	0.13	0.22
8	27	5/8	2	27ER-8-NPT-2M	27IR-8-NPT-2M	0.12	0.20

API-ROUND

PITCH TPI	L mm	I.C. inch	NO. OF TEETH	PART #		X	Y
				EXTERNAL	INTERNAL		
10	22	1/2	2	22ER-10-API-RD-2M	22IR-10-API-RD-2M	0.09	0.15
10	22	1/2	3	27ER-10-API-RD-3M	27IR-10-API-RD-3M	0.15	0.24
8	27	5/8	2	27ER-8-API-RD-2M	27IR-8-API-RD-2M	0.12	0.18

WHITWORTH

PITCH TPI	L mm	I.C. inch	NO. OF TEETH	PART #		X	Y
				EXTERNAL	INTERNAL		
14	16	3/8	2	16ER-14-W-2M	16IR-14-W-2M	0.07	0.11
14	16	3/8	3	22ER-14-W-3M	22IR-14-W-3M	0.11	0.18
11	22	1/2	2	22ER-11-W-2M	22IR-11-W-2M	0.09	0.13



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

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1

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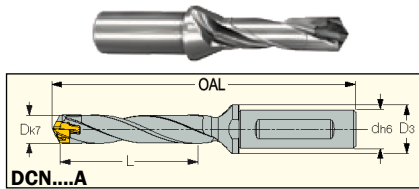
DCN

SUMOCHAM

INCH

INDEXABLE DRILLS
WITH COOLANT HOLES

WITH OR
WITHOUT FLATS



NOTE: Shown on this page are drills with a flat on the shank, except for the 12xD drills and drills ending in with 'C-□D'

INCH

1.5xD

For cylindrical shank,
replace 'A' with 'R'.

PART #	D min	D max	L	d	D3	L1	L4	OAL
DCN-0236-035-050A-1.5D	0.236	0.252	0.35			0.99		2.760
DCN-0256-038-050A-1.5D	0.256	0.271	0.38			0.99		2.760
DCN-0275-043-050A-1.5D	0.275	0.291	0.43			0.99		2.760
DCN-0295-044-050A-1.5D	0.295	0.311	0.44			0.99		2.760
DCN-0315-047-050A-1.5D	0.315	0.331	0.47	0.500	0.630	1.10	1.77	2.790
DCN-0335-050-050A-1.5D	0.335	0.350	0.50			1.10		2.870
DCN-0354-053-050A-1.5D	0.354	0.370	0.53			1.15		2.920
DCN-0374-056-050A-1.5D	0.374	0.390	0.56			1.15		2.920
DCN-0394-059-063A-1.5D	0.394	0.409	0.59			1.23		3.120
DCN-0413-062-063A-1.5D	0.413	0.429	0.59			1.23		3.120
DCN-0433-065-063A-1.5D	0.433	0.449	0.65			1.30		3.190
DCN-0453-068-063A-1.5D	0.453	0.469	0.68			1.33		3.220
DCN-0472-071-063A-1.5D	0.472	0.488	0.71	0.625	0.790	1.38	1.89	3.270
DCN-0492-074-063A-1.5D	0.492	0.508	0.74			1.38		3.300
DCN-0512-077-063A-1.5D	0.512	0.527	0.77			1.46		3.350
DCN-0531-080-063A-1.5D	0.531	0.547	0.80			1.46		3.380
DCN-0551-083-063A-1.5D	0.551	0.567	0.83			1.62		3.510
DCN-0571-085-063A-1.5D	0.571	0.587	0.85			1.62		3.510
DCN-0591-088-075A-1.5D	0.591	0.626	0.89			1.82		3.790
DCN-0630-095-075A-1.5D	0.630	0.665	0.95	0.750	0.980	1.94	1.97	3.910
DCN-0669-100-075A-1.5D	0.669	0.705	1.00			2.06		4.030
DCN-0709-106-100A-1.5D	0.709	0.744	1.06			2.19		4.390
DCN-0748-112-100A-1.5D	0.748	0.783	1.12			2.30		4.500
DCN-0787-116-100A-1.5D	0.787	0.823	1.16	1.000	1.260	2.43	2.20	4.630
DCN-0827-126-100A-1.5D	0.827	0.862	1.26			2.55		4.750
DCN-0866-130-100A-1.5D	0.866	0.902	1.30			2.67		4.870
DCN-0906-136-125A-1.5D	0.906	0.941	1.38			2.79		5.150
DCN-0945-142-125A-1.5D	0.945	0.980	1.42			2.91		5.270
DCN-0984-150-125A-1.5D	0.984	1.020	1.50	1.250	1.653	3.03	2.36	5.390
DCN-1024-154-125A-1.5D	1.024	1.059	1.54			3.16		5.520
DCN-1063-160-125A-1.5D	1.063	1.098	1.60			3.27		5.980
DCN-1063-160-150A-1.5D	1.063	1.098	1.60	1.500	1.968	3.30	2.68	5.980
DCN-1102-166-125A-1.5D	1.102	1.138	1.66			3.39		5.750
DCN-1142-171-125A-1.5D	1.142	1.177	1.71	1.250	1.653	3.52		5.880
DCN-1181-177-125A-1.5D	1.181	1.216	1.77			3.64	2.36	6.000
DCN-1220-183-125A-1.5D	1.220	1.260	1.83			3.76		6.120
DCN-1260-189-150A-1.5D	1.260	1.295	1.89	1.500	1.960	3.88		6.630

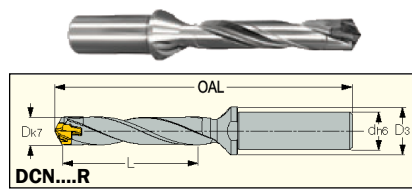
INCH

8xD

For cylindrical shank,
replace 'A' with 'R'.

PART #	D min	D max	L	d	D3	OAL
DCN-0236-188-050A-8D	0.236	0.252	1.880			4.210
DCN-0256-205-050A-8D	0.256	0.272	2.050			4.380
DCN-0275-220-050A-8D	0.275	0.291	2.200			4.550
DCN-0295-236-050A-8D	0.295	0.311	2.360			4.700
DCN-0315-252-050A-8D	0.315	0.331	2.52	0.500	0.630	4.900
DCN-0335-268-050A-8D	0.335	0.350	2.68			5.050
DCN-0354-283-050A-8D	0.354	0.370	2.83			5.230
DCN-0374-299-050A-8D	0.374	0.390	2.99			5.380
DCN-0394-315-063A-8D	0.394	0.409	3.15			5.680
DCN-0413-331-063A-8D	0.413	0.429	3.31			5.840
DCN-0433-346-063A-8D	0.433	0.449	3.46			6.010
DCN-0453-362-063A-8D	0.453	0.469	3.62			6.170
DCN-0472-378-063A-8D	0.472	0.488	3.78			6.340
DCN-0492-394-063A-8D	0.492	0.508	3.94	0.625	0.790	6.500
DCN-0512-409-063A-8D	0.512	0.527	4.09			6.680
DCN-0531-425-063A-8D	0.531	0.548	4.25			6.840
DCN-0551-441-063A-8D	0.551	0.567	4.41			7.090
DCN-0571-457-063A-8D	0.571	0.587	4.57			7.250
DCN-0591-472-075A-8D	0.591	0.626	4.72			7.630
DCN-0630-504-075A-8D	0.630	0.665	5.04	0.750	0.980	8.010
DCN-0669-535-075A-8D	0.669	0.705	5.35			8.380
DCN-0709-567-100A-8D	0.709	0.744	5.67			8.990
DCN-0748-598-100A-8D	0.748	0.783	5.98			9.370
DCN-0787-630-100A-8D	0.787	0.823	6.30	1.000	1.260	9.740
DCN-0827-661-100A-8D	0.827	0.862	6.61			10.120
DCN-0866-693-100A-8D	0.866	0.902	6.93			10.500
DCN-0906-724-125A-8D	0.906	0.941	7.24			11.040
DCN-0945-756-125A-8D	0.945	0.980	7.56			11.420
DCN-0984-787-125A-8D	0.984	1.020	7.87			11.790
DCN-1024-820-125A-8D	1.024	1.059	8.20			12.170
DCN-1063-850-125A-8D	1.063	1.098	8.50	1.250	1.653	12.540
DCN-1102-882-125A-8D	1.102	1.138	8.82			12.920
DCN-1142-914-125A-8D	1.142	1.177	9.14			13.300
DCN-1181-945-125A-8D	1.181	1.216	9.45			13.670
DCN-1220-976-125A-8D	1.220	1.260	9.76			14.050
DCN-1260-1008-125A-8D	1.260	1.295	10.08			14.430

- Prior to using the 8xD drill, it is recommended to drill a pre-hole by using a DCN 1.5xD drill or a 140° centering drill. It is not required if HCP drilling head is used
- Prior to using the 12xD drill, it is recommended to drill a pre-hole by using a DCN 1.5xD drill or a 140° centering drill. The HCP drilling head may eliminate the need for a pre-hole



For drills with cylindrical shanks (no flat) replace the 'A' in the Part # with an 'R'.

INCH

3xD

For cylindrical shank,
replace 'A' with 'R'.

PART #	D min	D max	L	d	D3	L1	L4	OAL
DCN-0236-071-050A-3D	0.236	0.250	0.71			0.84		3.030
DCN-0256-079-050A-3D	0.256	0.271	0.79			0.91		3.100
DCN-0275-082-050A-3D	0.275	0.291	0.82			1.40		3.170
DCN-0295-089-050A-3D	0.295	0.311	0.89			1.46		3.230
DCN-0315-094-050A-3D	0.315	0.331	0.94	0.500	0.630	1.57	1.77	3.320
DCN-0335-100-050A-3D	0.335	0.350	1.00			1.61		3.380
DCN-0354-106-050A-3D	0.354	0.370	1.06			1.69		3.460
DCN-0374-112-050A-3D	0.374	0.390	1.12			1.74		3.510
DCN-0394-118-063A-3D	0.394	0.409	1.18			1.82		3.710
DCN-0413-124-063A-3D	0.413	0.429	1.24			1.88		3.770
DCN-0433-130-063A-3D	0.433	0.449	1.30			1.95		3.840
DCN-0453-135-063A-3D	0.453	0.469	1.35			2.01		3.900
DCN-0472-141-063A-3D	0.472	0.488	1.41			2.09		3.980
DCN-0492-147-063A-3D	0.492	0.508	1.47	0.625	0.790	2.15	1.89	4.040
DCN-0512-153-063A-3D	0.512	0.528	1.53			2.23		4.120
DCN-0531-159-063A-3D	0.531	0.547	1.59			2.29		4.180
DCN-0551-165-063A-3D	0.551	0.567	1.65			2.45		4.340
DCN-0571-171-063A-3D	0.571	0.587	1.71			2.51		4.400
DCN-0591-177-075A-3D	0.591	0.626	1.77			2.71		4.680
DCN-0630-189-075A-3D	0.630	0.665	1.89	0.750	0.980	2.89	1.97	4.860
DCN-0669-201-075A-3D	0.669	0.705	2.01			3.07		5.040
DCN-0709-213-100A-3D	0.709	0.744	2.13			3.25		5.450
DCN-0748-224-100A-3D	0.748	0.783	2.24			3.43		5.630
DCN-0787-236-100A-3D	0.787	0.823	2.36	1.000	1.260	3.61	2.20	5.810
DCN-0827-248-100A-3D	0.827	0.862	2.48			3.79		5.990
DCN-0866-260-100A-3D	0.866	0.902	2.60			3.97		6.170
DCN-0906-272-125A-3D	0.906	0.941	2.72			4.15		6.510
DCN-0945-283-125A-3D	0.945	0.980	2.83	1.250	1.650	4.33	2.36	6.690
DCN-0984-295-125A-3D	0.984	1.020	2.95			4.51		6.870
DCN-1024-307-125A-3D	1.024	1.059	3.07			4.68		7.040
DCN-1063-319-125A-3D	1.063	1.098	3.19	1.25	1.650	4.87	2.36	7.230
DCN-1063-319-150A-3D	1.063	1.098	3.19	1.50	1.968	4.87	2.68	7.550
DCN-1102-331-125A-3D	1.102	1.138	3.31	1.25	1.650	5.05	2.36	7.410
DCN-1102-331-150A-3D	1.102	1.138	3.31	1.50	1.968	5.05	2.68	7.730
DCN-1142-342-125A-3D	1.142	1.177	3.42	1.25	1.650	5.22	2.36	7.580
DCN-1142-342-150A-3D	1.142	1.177	3.42	1.50	1.968	5.22	2.68	7.900
DCN-1181-354-125A-3D	1.181	1.216	3.54	1.25	1.650	5.41	2.36	7.770
DCN-1181-354-150A-3D	1.181	1.216	3.54	1.50	1.968	5.41	2.68	8.090
DCN-1220-366-125A-3D	1.220	1.260	3.66	1.25	1.650	5.59	2.36	7.950
DCN-1220-366-150A-3D	1.220	1.260	3.66	1.50	1.968	5.59	2.68	8.270
DCN-1260-378-125A-3D	1.260	1.296	3.78	1.25	1.650	5.76	2.36	8.120
DCN-1260-378-150A-3D	1.260	1.296	3.78	1.50	1.968	5.76	2.68	8.440

INCH

10xD

With cylindrical shank

PART #	D min	D max	L	d	D3	OAL
DCN-0630-630-075R-10D	0.630	0.665	6.415	0.750	0.980	9.260
DCN-0748-748-100R-10D	0.748	0.783	7.616	1.000	1.260	10.860
DCN-0984-984-125R-10D	0.984	1.020	9.990	1.250	1.654	13.760

INCH

12xD

NOTE: The 12xD drills are
available with cylindrical
shanks only

PART #	D min	D max	L	d	D3	OAL
DCN-0315-378-050R-12D	0.315	0.350	3.780	0.500	0.625	6.160
DCN-0335-402-050R-12D	0.335	0.351	4.010			6.390
DCN-0354-425-050R-12D	0.354	0.390	4.250			6.640
DCN-0374-449-050R-12D	0.374	0.390	4.490			6.880
DCN-0394-472-063R-12D	0.394	0.429	4.720	0.625	0.750	7.250
DCN-0413-496-063R-12D	0.413	0.449	4.960			7.490
DCN-0433-520-063R-12D	0.433	0.450	5.200			7.740
DCN-0453-543-063R-12D	0.453	0.489	5.430			7.980
DCN-0472-567-063R-12D	0.472	0.468	5.670			8.230
DCN-0492-591-063R-12D	0.492	0.508	5.910			8.460
DCN-0512-614-063R-12D	0.512	0.528	6.140			8.720
DCN-0531-639-063R-12D	0.532	0.547	6.390			8.960
DCN-0551-661-063R-12D	0.551	0.567	6.610	0.980	0.980	9.860
DCN-0571-685-063R-12D	0.571	0.587	6.850			7.90
DCN-0591-709-075R-12D	0.591	0.626	7.090	0.750	0.984	9.690
DCN-0630-756-075R-12D	0.630	0.665	7.560			10.050
DCN-0669-803-075R-12D	0.669	0.705	8.030			10.630
DCN-0709-850-100R-12D	0.709	0.744	8.500			11.830
DCN-0748-898-100R-12D	0.748	0.783	8.980	1.00	1.26	12.360
DCN-0787-945-100R-12D	0.787	0.823	9.450			12.890
DCN-0827-992-100R-12D	0.827	0.862	9.920			13.430
DCN-0866-1039-100R-12D	0.866	0.902	10.390			13.960
DCN-0906-1087-125R-12D	0.906	0.941	10.870	1.25	1.65	14.660
DCN-0945-1134-125R-12D	0.945	0.980	11.340			15.190
DCN-0984-1181-125R-12D	0.984	1.020	11.810			15.730
DCN-1024-1228-125R-12D	1.024	1.059	12.280			17.130
DCN-1063-1275-125R-12D	1.063	1.098	12.750			17.660
DCN-1102-1322-125R-12D	1.102	1.138	13.220			18.190
DCN-1142-1370-125R-12D	1.142	1.177	13.700			18.730
DCN-1181-1417-125R-12D	1.181	1.216	14.170			19.270
DCN-1220-1464-125R-12D	1.220	1.256	14.640			19.840
DCN-1260-1512-125R-12D	1.260	1.296	15.120			20.330



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DCN

SUMOCHAM

METRIC

INDEXABLE DRILLS

WITH OR
WITHOUT FLATS



METRIC

1.5xD

USE INSERTS: ICP, ICM, ICK, ICN

PART #	D min	D max	L	d	Ds	L1	L4
DCN-060-009-12A-1.5D	6.0	6.4	9.0			23.0	
DCN-065-010-12A-1.5D	6.5	6.9	10.0			24.1	
DCN-070-011-12A-1.5D	7.0	7.4	11.0			25.1	
DCN-075-011-12A-1.5D	7.5	7.9	11.0			25.9	
DCN-080-012-12A-1.5D	8.0	8.4	12.0			27.9	
DCN-085-013-12A-1.5D	8.5	8.9	13.0			28.2	
DCN-090-014-12A-1.5D	9.0	9.4	14.0			29.3	
DCN-095-014-12A-1.5D	9.5	9.9	14.0			30.1	
DCN-100-015-16A-1.5D	10.0	10.4	15.0			31.2	
DCN-105-016-16A-1.5D	10.5	10.9	16.0			32.0	
DCN-110-017-16A-1.5D	11.0	11.4	17.0			33.1	
DCN-115-017-16A-1.5D	11.5	11.9	17.0			33.9	
DCN-120-018-16A-1.5D	12.0	12.4	18.0			35.0	
DCN-125-019-16A-1.5D	12.5	12.9	19.0			35.8	
DCN-130-020-16A-1.5D	13.0	13.4	20.0			37.1	
DCN-135-020-16A-1.5D	13.5	13.9	20.0			37.9	
DCN-140-021-16A-1.5D	14.0	14.4	21.0			41.1	
DCN-145-022-16A-1.5D	14.5	14.9	22.0			41.9	
DCN-150-023-20A-1.5D	15.0	15.9	23.0			46.2	
DCN-160-024-20A-1.5D	16.0	16.9	24.0			49.3	
DCN-170-026-20A-1.5D	17.0	17.9	26.0			52.4	
DCN-180-027-25A-1.5D	18.0	18.9	27.0			55.5	
DCN-190-029-25A-1.5D	19.0	19.9	29.0			58.5	
DCN-200-030-25A-1.5D	20.0	20.9	30.0			61.6	
DCN-210-032-25A-1.5D	21.0	21.9	32.0			64.7	
DCN-220-033-25A-1.5D	22.0	22.9	33.0			67.8	
DCN-230-035-32A-1.5D	23.0	23.9	35.0			70.9	
DCN-240-036-32A-1.5D	24.0	24.9	36.0			73.9	
DCN-250-038-32A-1.5D	25.0	25.9	38.0			77.0	
DCN-260-039-32A-1.5D	26.0	26.9	39.0			80.1	
DCN-270-041-40A-1.5D	27.0	27.9	41.0			83.1	
DCN-280-042-32A-1.5D	28.0	28.9	42.0			86.2	
DCN-290-044-32A-1.5D	29.0	29.9	44.0			89.3	
DCN-300-045-32A-1.5D	30.0	30.9	45.0			92.4	
DCN-310-047-32A-1.5D	31.0	31.9	47.0			95.5	
DCN-320-048-32A-1.5D	32.0	32.9	48.0			98.5	



METRIC

3xD

USE INSERTS: ICP, ICM, ICK, ICN

PART #	D min	D max	L	d	Ds	L1	L4
DCN-060-018-12A-3D	6.0	6.4	18.0			32.0	
DCN-065-020-12A-3D	6.5	6.9	20.0			33.8	
DCN-070-021-12A-3D	7.0	7.4	21.0			35.6	
DCN-075-023-12A-3D	7.5	7.9	23.0			37.1	
DCN-080-024-12A-3D	8.0	8.4	24.0			39.4	
DCN-085-025-12A-3D	8.5	8.9	25.0			40.9	
DCN-090-027-12A-3D	9.0	9.4	27.0			42.8	
DCN-095-029-12A-3D	9.5	9.9	29.0			44.3	
DCN-100-030-16A-3D	10.0	10.4	30.0			46.2	
DCN-105-032-16A-3D	10.5	10.9	32.0			47.7	
DCN-110-033-16A-3D	11.0	11.4	33.0			49.6	
DCN-115-035-16A-3D	11.5	11.9	35.0			51.1	
DCN-120-036-16A-3D	12.0	12.4	36.0			53.0	
DCN-125-037-16A-3D	12.5	12.9	37.0			54.5	
DCN-130-039-16A-3D	13.0	13.4	39.0			56.6	
DCN-135-041-16A-3D	13.5	13.9	41.0			58.1	
DCN-140-042-16A-3D	14.0	14.4	42.0			62.1	
DCN-145-044-16A-3D	14.5	14.9	44.0			63.6	
DCN-150-045-20A-3D	15.0	15.9	45.0			68.7	
DCN-160-048-20A-3D	16.0	16.9	48.0			73.3	
DCN-170-051-20A-3D	17.0	17.9	51.0			77.9	
DCN-180-054-25A-3D	18.0	18.9	54.0			82.5	
DCN-190-057-25A-3D	19.0	19.9	57.0			87.0	
DCN-200-060-25A-3D	20.0	20.9	60.0			91.6	
DCN-210-063-25A-3D	21.0	21.9	63.0			96.2	
DCN-220-066-25A-3D	22.0	22.9	66.0			100.8	
DCN-230-069-32A-3D	23.0	23.9	69.0			105.4	
DCN-240-072-32A-3D	24.0	24.9	72.0			110.0	
DCN-250-075-32A-3D	25.0	25.9	75.0			114.5	
DCN-260-078-32A-3D	26.0	26.9	78.0			119.0	
DCN-270-081-32A-3D	27.0	27.9	81.0			123.7	
DCN-280-084-32A-3D	28.0	28.9	84.0			128.2	
DCN-290-087-32A-3D	29.0	29.9	87.0			132.8	
DCN-300-090-32A-3D	30.0	30.9	90.0			137.4	
DCN-310-093-32A-3D	31.0	31.9	93.0			142.0	
DCN-320-096-32A-3D	32.0	32.9	96.0			146.5	

Part numbers shown are for shanks with a flat. For cylindrical shank, replace 'A' with 'R' in the PART #.



Part numbers shown are for shanks with a flat. For cylindrical shank, replace 'A' with 'R' in the PART #.

METRIC

5xD

USE INSERTS: ICP, ICM, ICK, ICN

PART #	D min	D max	L	d	Ds	L1	L4
DCN-060-030-12A-5D	6.0	6.4	30.0			44.0	
DCN-065-033-12A-5D	6.5	6.9	33.0			46.8	
DCN-070-035-12A-5D	7.0	7.4	35.0			49.6	
DCN-075-038-12A-5D	7.5	7.9	38.0			52.1	
DCN-080-040-12A-5D	8.0	8.4	40.0			55.4	
DCN-085-042-12A-5D	8.5	8.9	42.5			57.9	
DCN-090-045-12A-5D	9.0	9.4	45.0			60.8	
DCN-095-048-12A-5D	9.5	9.9	48.0			63.3	
DCN-100-050-16A-5D	10.0	10.4	50.0			66.2	
DCN-105-053-16A-5D	10.5	10.9	53.0			68.7	
DCN-110-055-16A-5D	11.0	11.4	55.0			71.6	
DCN-115-058-16A-5D	11.5	11.9	58.0			74.1	
DCN-120-060-16A-5D	12.0	12.4	60.0			77.0	
DCN-125-062-16A-5D	12.5	12.9	62.0			79.5	
DCN-130-065-16A-5D	13.0	13.4	65.0			82.6	
DCN-135-068-16A-5D	13.5	13.9	68.0			85.1	
DCN-140-070-16A-5D	14.0	14.4	70.0			90.2	
DCN-145-073-16A-5D	14.5	14.9	73.0			92.7	
DCN-150-075-20A-5D	15.0	15.9	75.0			98.7	
DCN-160-080-20A-5D	16.0	16.9	80.0			105.3	
DCN-170-085-20A-5D	17.0	17.9	85.0			111.9	
DCN-180-090-25A-5D	18.0	18.9	90.0			118.5	
DCN-190-095-25A-5D	19.0	19.9	95.0			125.0	
DCN-200-100-25A-5D	20.0	20.9	100.0			131.6	
DCN-210-105-25A-5D	21.0	21.9	105.0			138.2	
DCN-220-110-25A-5D	22.0	22.9	110.0			144.8	
DCN-230-115-32A-5D	23.0	23.9	115.0			151.4	
DCN-240-120-32A-5D	24.0	24.9	120.0			158.0	
DCN-250-125-32A-5D	25.0	25.9	125.0			164.5	
DCN-260-130-32A-5D	26.0	26.9	130.0			171.0	
DCN-270-135-32A-5D	27.0	27.9	135.0			177.7	
DCN-280-140-32A-5D	28.0	28.9	140.0			184.2	
DCN-290-145-32A-5D	29.0	29.9	145.0			190.8	
DCN-300-150-32A-5D	30.0	30.9	150.0			197.4	
DCN-310-155-32A-5D	31.0	31.9	155.0			204.0	
DCN-320-160-32A-5D	32.0	32.9	160.0			210.5	



Part numbers shown are for shanks with a flat. For cylindrical shank, replace 'A' with 'R' in the PART #.

METRIC

8xD

USE INSERTS: ICP, ICM, ICK, ICN

PART #	D min	D max	L	d	Ds	L1	L4
DCN-060-048-12A-8D	6.0	6.4	48.0			62.0	
DCN-065-052-12A-8D	6.5	6.9	52.0			66.3	
DCN-070-056-12A-8D	7.0	7.4	56.0			70.6	
DCN-075-060-12A-8D	7.5	7.9	60.0	12.00	16.00	75.0	45.0
DCN-080-064-12A-8D	8.0	8.4	64.0			79.4	
DCN-085-068-12A-8D	8.5	8.9	68.0			83.8	
DCN-090-072-12A-8D	9.0	9.4	72.0			87.8	
DCN-095-076-12A-8D	9.5	9.9	76.0			91.8	
DCN-100-080-16A-8D	10.0	10.4	80.0			96.2	
DCN-105-084-16A-8D	10.5	10.9	84.0			100.2	
DCN-110-088-16A-8D	11.0	11.4	88.0			104.6	
DCN-115-092-16A-8D	11.5	11.9	92.0			108.6	
DCN-120-096-16A-8D	12.0	12.4	96.0	16.0	20.0	113.0	48.0
DCN-125-100-16A-8D	12.5	12.9	100.0			117.0	
DCN-130-104-16A-8D	13.0	13.4	104.0			121.6	
DCN-135-108-16A-8D	13.5	13.9	108.0			125.6	
DCN-140-112-16A-8D	14.0	14.4	112.0			132.1	
DCN-145-116-16A-8D	14.5	14.9	116.0			136.2	
DCN-150-120-20A-8D	15.0	15.9	120.0			143.7	
DCN-160-128-20A-8D	16.0	16.9	128.0	20.0	25.0	153.3	50.0
DCN-170-136-20A-8D	17.0	17.9	136.0			162.9	
DCN-180-144-25A-8D	18.0	18.9	144.0			172.5	
DCN-190-152-25A-8D	19.0	19.9	152.0			182.0	
DCN-200-160-25A-8D	20.0	20.9	160.0	25.0	32.0	191.6	56.0
DCN-210-168-25A-8D	21.0	21.9	168.0			201.2	
DCN-220-176-25A-8D	22.0	22.9	176.0			210.8	
DCN-230-184-32A-8D	23.0	23.9	184.0			220.4	
DCN-240-192-32A-8D	24.0	24.9	192.0			230.0	
DCN-250-200-32A-8D	25.0	25.9	200.0			239.5	
DCN-260-208-32A-8D	26.0	26.9	208.0			249.3	
DCN-270-216-32A-8D	27.0	27.9	216.0	32.0	42.0	258.6	60.0
DCN-280-224-32A-8D	28.0	28.9	224.0			268.2	
DCN-290-232-32A-8D	29.0	29.9	232.0			277.8	
DCN-300-240-32A-8D	30.0	30.9	240.0			287.4	
DCN-310-248-32A-8D	31.0	31.9	248.0			297.0	
DCN-320-256-32A-8D	32.0	32.9	256.0			306.5	

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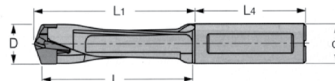
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Bass Tool & Supply, Inc.
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DCNS MODULAR DRILLS WITHOUT A FLANGE



SHANK WITH A FLAT



Suitable for chamfering holders
(shown below)

3xD DCNS-3D

PART #	D min *	D max	L	d **	L1	L4	POCKET SIZE	CLAMPING KEY
DCNS-0295-089-031B-3D	0.295	0.311	0.89	0.315	1.24		7.0	
DCNS-0315-094-031B-3D	0.315	0.331	0.94	0.315	1.31		8.0	
DCNS-0335-100-035B-3D	0.335	0.350	1.00	0.354	1.41		8.0	KDCN6-9.99
DCNS-0354-106-035B-3D	0.354	0.370	1.06	0.354	1.49		9.0	
DCNS-0374-112-039B-3D	0.374	0.390	1.12	0.394	1.57		9.0	
DCNS-0394-118-039B-3D	0.394	0.409	1.18	0.394	1.65	1.69	10.0	
DCNS-0413-124-043B-3D	0.413	0.429	1.24	0.433	1.74		10.0	
DCNS-0433-130-043B-3D	0.433	0.449	1.30	0.433	1.82		11.0	
DCNS-0453-135-047B-3D	0.453	0.469	1.36	0.472	1.90		11.0	KDCN10-13.99
DCNS-0472-141-047B-3D	0.472	0.488	1.42	0.472	2.05		12.0	
DCNS-0492-147-051B-3D	0.492	0.508	1.48	0.512	2.07		12.0	
DCNS-0512-153-051B-3D	0.512	0.528	1.54	0.512	2.15		13.0	
DCNS-0531-159-055B-3D	0.531	0.547	1.59	0.551	2.23		13.0	
DCNS-0551-165-055B-3D	0.551	0.567	1.65	0.551	2.31	1.77	14.0	
DCNS-0571-171-059B-3D	0.571	0.587	1.71	0.591	2.40		14.0	
DCNS-0591-177-059B-3D	0.591	0.626	1.77	0.591	2.48		15.0	KDCN14-17.99
DCNS-0630-189-063B-3D	0.630	0.665	1.89	0.630	2.74		16.0	
DCNS-0669-201-066B-3D	0.669	0.705	2.01	0.669	2.81	1.89	17.0	
DCNS-0709-213-070B-3D	0.709	0.744	2.13	0.709	2.98		18.0	
DCNS-0748-224-074B-3D	0.748	0.783	2.24	0.748	3.08		19.0	KDCN18-21.99
DCNS-0787-236-078B-3D	0.787	0.823	2.36	0.787	3.31	2.13	20.0	
DCNS-0827-248-082B-3D	0.827	0.862	2.48	0.827	3.47		21.0	
DCNS-0866-260-086B-3D	0.866	0.902	2.60	0.866	3.64		22.0	
DCNS-0906-272-090B-3D	0.906	0.941	2.72	0.906	3.80	2.36	23.0	KDCN22-26.99
DCNS-0945-283-094B-3D	0.945	0.980	2.83	0.945	3.97		24.0	
DCNS-0984-295-098B-3D	0.984	1.020	2.95	0.984	4.13		25.0	



INSERTS:

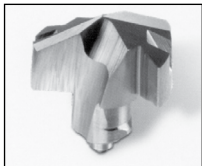
- ICK
- ICK-2M
- ICM
- ICN
- ICP
- ICP-2M
- ICF-2M-CFRP

5xD DCNS-5D

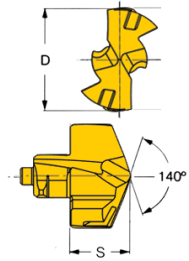
PART #	D min *	D max	L	d **	L1	L4	POCKET SIZE	CLAMPING KEY
DCNS-0295-148-031B-5D	0.295	0.311	1.48	0.315	1.83		7.0	
DCNS-0315-157-031B-5D	0.315	0.331	1.57	0.315	1.94		8.0	
DCNS-0335-167-035B-5D	0.335	0.35	1.67	0.354	2.07		8.0	KDCN6-9.99
DCNS-0354-177-035B-5D	0.354	0.37	1.77	0.354	2.20		9.0	
DCNS-0374-187-039B-5D	0.374	0.39	1.87	0.394	2.32		9.0	
DCNS-0394-196-039B-5D	0.394	0.409	1.97	0.394	2.44	1.69	10.0	
DCNS-0413-206-043B-5D	0.413	0.429	2.07	0.433	2.56		10.0	
DCNS-0433-216-043B-5D	0.433	0.449	2.17	0.433	2.69		11.0	
DCNS-0453-226-047B-5D	0.453	0.469	2.26	0.472	2.81		11.0	KDCN10-13.99
DCNS-0472-236-047B-5D	0.472	0.488	2.36	0.472	2.99		12.0	
DCNS-0492-246-051B-5D	0.492	0.508	2.46	0.512	3.05		12.0	
DCNS-0512-256-051B-5D	0.512	0.528	2.56	0.512	3.17		13.0	
DCNS-0531-265-055B-5D	0.531	0.547	2.66	0.551	3.30		13.0	
DCNS-0551-275-055B-5D	0.551	0.567	2.76	0.551	3.42	1.77	14.0	
DCNS-0571-285-059B-5D	0.571	0.587	2.85	0.591	3.54		14.0	
DCNS-0591-295-059B-5D	0.591	0.626	2.95	0.591	3.66		15.0	KDCN14-17.99
DCNS-0630-315-063B-5D	0.630	0.665	3.15	0.630	4.00		16.0	
DCNS-0669-335-066B-5D	0.669	0.705	3.35	0.669	4.15	1.89	17.0	
DCNS-0709-354-070B-5D	0.709	0.744	3.54	0.709	4.39		18.0	
DCNS-0748-374-074B-5D	0.748	0.783	3.74	0.748	4.57		19.0	KDCN18-21.99
DCNS-0787-394-078B-5D	0.787	0.823	3.94	0.787	4.88	2.13	20.0	
DCNS-0827-413-082B-5D	0.827	0.862	4.13	0.827	5.13		21.0	
DCNS-0866-433-086B-5D	0.866	0.902	4.33	0.866	5.37		22.0	
DCNS-0906-453-090B-5D	0.906	0.941	4.53	0.906	5.61	2.36	23.0	KDCN22-26.99
DCNS-0945-472-094B-5D	0.945	0.980	4.72	0.945	5.86		24.0	
DCNS-0984-492-098B-5D	0.984	1.020	4.92	0.984	6.10		25.0	

* Do not mount smaller drilling heads than specified range for drill body.
** Metric sizes.

SUMOCHAM DRILLING HEADS



- ICP** - For use on Carbon and Alloy Steel
- ICP- 2M** - For use on Carbon and Alloy Steel
- ICK** - For use on Cast Iron
- ICK-2M** - For use on Cast Iron
- HCP-IQ** - For Alloy Steel & Cast Iron(Self Centering)
- ICM** - For use on Stainless & High Temperature Alloys
- ICN** - For use on Aluminum
- IHP-BD** - For use on Carbon and Alloy Steel Self Centering For thin walled parts
- IHP** - For use on Carbon and Alloy Steel
- ICG** - Chip splitting head for use on Steel and Stainless Steel
- QCP-2M** - Double margin Self Centering for Carbon and Alloy Steels for high surface finish

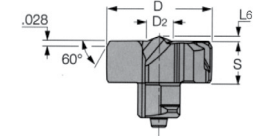


PART # *			
ICP-□□□□		HCP-□□□□-IQ	
ICP-□□□□-2M		ICM-□□□□	
ICK-□□□□		ICN-□□□□	
ICK-□□□□-2M		*□□□□ = SIZE IN THOUSANDS	
D (1)	POCKET SIZE	D (1)	POCKET SIZE
0.157-0.173	4.0	0.669-0.705	17.0
0.177-0.193	4.5	0.709-0.744	18.0
0.197-0.213	5.0	0.748-0.783	19.0
0.217-0.232	5.5	0.787-0.823	20.0
0.236-0.252	6.0	0.827-0.862	21.0
0.256-0.272	6.5	0.866-0.902	22.0
0.276-0.311	7.0	0.906-0.941	23.0
0.315-0.350	8.0	0.945-0.980	24.0
0.355-0.390	9.0	0.984-1.020	25.0
0.394-0.429	10.0	1.024-1.059	26.0
0.433-0.469	11.0	1.063-1.098	27.0
0.472-0.508	12.0	1.102-1.138	28.0
0.512-0.547	13.0	1.142-1.177	29.0
0.551-0.587	14.0	1.181-1.217	30.0
0.591-0.626	15.0	1.220-1.256	31.0
0.630-0.665	16.0	1.260-1.295	32.0

(1) Heads are available in increments of .004"

FCP-IQ

FLAT BOTTOM INSERTS FOR DCN DRILLS



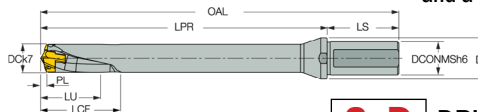
PART #
FCP-□□□□
*□□□□ = SIZE IN THOUSANDS

(1) Heads are available in increments of .004"

SUMOCHAM INDEXABLE DRILLS

Exchangeable head drills with a reinforced body and a flat shank for construction beam industry

DCN-A-□D-BD: 5xD 8xD



5xD DRILLS DCN-A-5D-BD

PART #	DC RANGE	DF	DCONMS	LU	LCF	LPR	PL	LS	OAL	SSC ⁽¹⁾	HEAD
DCN-0531-196-063A-5D-BD	0.531 - 0.551	0.830	0.625	1.5700	1.96	3.803	0.063	1.890	5.693	13.0	IHP-135-BD
DCN-0551-196-063A-5D-BD	0.551 - 0.590	0.830	0.625	1.5700	1.96	3.965	0.067	1.890	5.854	14.0	IHP-140-BD
DCN-0630-196-075A-5D-BD	0.630 - 0.669	1.060	0.625	1.5700	1.96	4.565	0.077	1.970	6.533	16.0	IHP-160-BD
DCN-0669-196-075A-5D-BD	0.669 - 0.708	1.060	0.750	1.5700	1.96	4.843	0.079	1.970	6.811	17.0	IHP-170-BD
DCN-0709-196-100A-5D-BD	0.709 - 0.748	1.260	1.000	1.5700	1.96	5.134	0.094	2.200	7.339	18.0	IHP-180-BD
DCN-0748-196-100A-5D-BD	0.748 - 0.787	1.260	1.000	1.5700	1.96	5.435	0.100	2.200	7.640	19.0	IHP-190-BD
DCN-0787-196-100A-5D-BD	0.787 - 0.826	1.260	1.000	1.5700	1.96	5.654	0.102	2.200	7.858	20.0	IHP-200-BD
DCN-0827-196-100A-5D-BD	0.827 - 0.866	1.260	1.000	1.5700	1.96	5.931	0.104	2.200	8.136	21.0	IHP-210-BD
DCN-0866-196-100A-5D-BD	0.866 - 0.905	1.260	1.000	1.5700	1.96	6.211	0.108	2.200	8.415	22.0	IHP-220-BD
DCN-0906-196-100A-5D-BD	0.906 - 0.944	1.260	1.000	1.5700	1.96	6.492	0.114	2.360	8.697	23.0	IHP-230-BD
DCN-0945-196-125A-5D-BD	0.945 - 0.984	1.530	1.250	1.5700	1.96	6.772	0.118	2.360	9.134	24.0	IHP-240-BD
DCN-0984-196-125A-5D-BD	0.984 - 1.023	1.530	1.250	1.5700	1.96	7.012	0.122	2.360	9.374	25.0	IHP-250-BD
DCN-1024-196-125A-5D-BD	1.024 - 1.063	1.540	1.250	1.5700	1.96	7.295	0.130	2.360	9.657	26.0	IHP-260-BD
DCN-1063-196-125A-5D-BD	1.063 - 1.102	1.530	1.250	1.5700	1.96	7.575	0.134	2.360	9.937	27.0	IHP-270-BD
DCN-1102-196-125A-5D-BD	1.102 - 1.181	1.540	1.250	1.5700	1.96	7.856	0.140	2.360	10.219	28.0	IHP-280-BD
DCN-1181-275-125A-5D-BD	1.181 - 1.220	1.540	1.250	1.9600	2.75	8.378	0.150	2.360	10.740	30.0	IHP-300-BD
DCN-1260-275-125A-5D-BD	1.260 - 1.299	1.530	1.250	1.9600	2.75	8.935	0.156	2.360	11.297	32.0	IHP-320-BD

(1) Seat Size Code

8xD DRILLS DCN-A-8D-BD

PART #	DC RANGE	DF	DCONMS	LU	LCF	LPR	PL	LS	OAL	SSC ⁽¹⁾	HEAD
DCN-0531-196-063A-8D-BD	0.531 - 0.551	0.830	0.625	1.5700	1.96	5.398	0.063	1.890	7.287	13.0	IHP-135-BD
DCN-0551-196-063A-8D-BD	0.551 - 0.590	0.830	0.625	1.5700	1.96	5.618	0.067	1.890	7.508	14.0	IHP-140-BD
DCN-0630-196-075A-8D-BD	0.630 - 0.669	1.060	0.750	1.5700	1.96	6.455	0.077	1.970	8.423	16.0	IHP-160-BD
DCN-0669-196-075A-8D-BD	0.669 - 0.708	1.060	0.750	1.5700	1.96	6.850	0.079	1.970	8.819	17.0	IHP-170-BD
DCN-0709-196-100A-8D-BD	0.709 - 0.748	1.060	1.000	1.5700	1.96	7.260	0.094	2.200	9.465	18.0	IHP-180-BD
DCN-0748-196-100A-8D-BD	0.748 - 0.787	1.260	1.000	1.5700	1.96	7.679	0.100	2.200	9.884	19.0	IHP-190-BD
DCN-0787-196-100A-8D-BD	0.787 - 0.826	1.260	1.000	1.5700	1.96	8.016	0.102	2.200	10.220	20.0	IHP-200-BD
DCN-0827-196-100A-8D-BD	0.827 - 0.866	1.260	1.000	1.5700	1.96	8.411	0.104	2.200	10.616	21.0	IHP-210-BD
DCN-0866-196-100A-8D-BD	0.866 - 0.905	1.260	1.000	1.5700	1.96	8.809	0.108	2.200	11.014	22.0	IHP-220-BD
DCN-0906-196-100A-8D-BD	0.906 - 0.944	1.260	1.250	1.5700	1.96	9.209	0.114	2.360	11.413	23.0	IHP-230-BD
DCN-0945-196-125A-8D-BD	0.945 - 0.984	1.530	1.250	1.5700	1.96	9.606	0.118	2.360	11.969	24.0	IHP-240-BD
DCN-0984-196-125A-8D-BD	0.984 - 1.023	1.530	1.250	1.5700	1.96	9.965	0.122	2.360	12.728	25.0	IHP-250-BD
DCN-1024-196-125A-8D-BD	1.024 - 1.063	1.540	1.250	1.5700	1.96	10.366	0.130	2.360	12.728	26.0	IHP-260-BD
DCN-1063-196-125A-8D-BD	1.063 - 1.102	1.530	1.250	1.5700	1.96	10.764	0.134	2.360	13.526	27.0	IHP-270-BD
DCN-1102-196-125A-8D-BD	1.102 - 1.141	1.540	1.250	1.5700	1.96	11.163	0.140	2.360	13.526	28.0	IHP-280-BD
DCN-1181-275-125A-8D-BD	1.181 - 1.220	1.540	1.250	1.9600	2.75	11.921	0.150	2.360	14.283	30.0	IHP-300-BD
DCN-1260-275-125A-8D-BD	1.260 - 1.299	1.530	1.250	1.9700	2.75	12.715	0.156	2.360	15.072	32.0	IHP-320-BD



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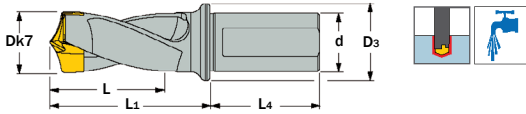
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The **CHAMIQDRILL** features a unique design, utilizing the carbide flexibility for self-locking; eliminating the need for clamping accessories. The robust structure of the drill with the concave cutting edge design enables drilling at high feed rates, providing very accurate IT8 - IT9 hole tolerance.



The DFN design features a shorter overall drill length, compared with other drills with the same length to diameter ratios, which provides higher tool stiffness and stability. The drill flutes have twisted coolant nozzles and carry indexable spade type drilling heads.

1.5xD

DFN A-1.5D-IQ (FOR INSERTS USE: HFP-IQ and IFP-IQ)

Indexable head drills with coolant holes and a one flat shank, drilling depth 1.5xD

PART #	Dmin ⁽¹⁾	Dmax	L	d	D3	L1	L4	Seat Size	OAL	CLAMPING KEY
DFN-1299-195-125A-1.5D-IQ	1.299	1.335	1.950			3.44		33	5.800	K-DFN-30-40
DFN-1339-200-125A-1.5D-IQ	1.339	1.374	2.000			3.55		34	5.910	
DFN-1378-206-125A-1.5D-IQ	1.378	1.413	2.060			3.65		35	6.010	
DFN-1417-212-125A-1.5D-IQ	1.417	1.453	2.120	1.250	1.650		2.36	36	6.120	
DFN-1457-218-125A-1.5D-IQ	1.457	1.492	2.180			3.86		37	6.220	
DFN-1496-224-125A-1.5D-IQ	1.496	1.531	2.240			3.97		38	6.330	
DFN-1535-230-125A-1.5D-IQ	1.535	1.575	2.300			4.07		39	6.430	



- SELF-LOCKING INSERTS
- CONCAVE CUTTING EDGE
- HIGH FEED RATES
- VERY ACCURATE

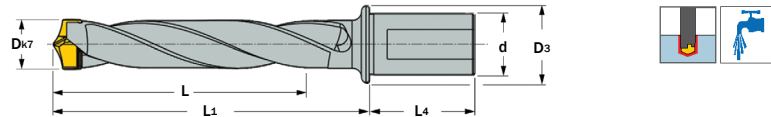
1.5xD

3xD

5xD

8xD

⁽¹⁾ Do not mount smaller drilling heads other than the specified range of the drill body



3xD

DFN A-3D-IQ (FOR INSERTS USE: HFP-IQ and IFP-IQ)

Indexable head drills with coolant holes and a one flat shank, drilling depth 3 X D

PART #	Dmin ⁽¹⁾	Dmax	L	d	D3	L1	L4	Seat Size	Clamping Key
DFN-1299-389-125A-3D-IQ	1.299	1.335	3.89	1.250	1.650	5.70	2.68	33	K-DFN-30-40
DFN-1339-401-125A-3D-IQ	1.339	1.374	4.01	1.250	1.650	5.88	2.68	34	K-DFN-30-40
DFN-1378-413-125A-3D-IQ	1.378	1.413	4.13	1.250	1.650	6.05	2.68	35	K-DFN-30-40
DFN-1417-425-125A-3D-IQ	1.417	1.453	4.25	1.250	1.650	6.22	2.68	36	K-DFN-30-40
DFN-1457-437-125A-3D-IQ	1.457	1.492	4.37	1.250	1.650	6.40	2.68	37	K-DFN-30-40
DFN-1496-448-125A-3D-IQ	1.496	1.531	4.48	1.250	1.650	6.57	2.68	38	K-DFN-30-40
DFN-1535-460-125A-3D-IQ	1.535	1.571	4.60	1.250	1.650	6.74	2.68	39	K-DFN-30-40
DFN-1575-472-125A-3D-IQ	1.575	1.610	4.72	1.250	1.650	6.91	2.68	40	K-DFN-30-40

5xD

DFN A-5D-IQ (FOR INSERTS USE: HFP-IQ and IFP-IQ)

Indexable head drills with coolant holes and a one flat shank, drilling depth 5 X D

PART #	Dmin ⁽¹⁾	Dmax	L	d	D3	L1	L4	Seat Size	Clamping Key
DFN-1299-649-125A-5D-IQ	1.299	1.335	6.49	1.250	1.650	8.30	2.68	33	K-DFN-30-40
DFN-1339-669-125A-5D-IQ	1.339	1.374	6.69	1.250	1.650	8.56	2.68	34	K-DFN-30-40
DFN-1378-689-125A-5D-IQ	1.378	1.413	6.89	1.250	1.650	8.81	2.68	35	K-DFN-30-40
DFN-1417-708-125A-5D-IQ	1.417	1.453	7.08	1.250	1.650	9.06	2.68	36	K-DFN-30-40
DFN-1457-728-125A-5D-IQ	1.457	1.492	7.28	1.250	1.650	9.31	2.68	37	K-DFN-30-40
DFN-1496-748-125A-5D-IQ	1.496	1.531	7.48	1.250	1.650	9.56	2.68	38	K-DFN-30-40
DFN-1535-767-125A-5D-IQ	1.535	1.571	7.67	1.250	1.650	9.81	2.68	39	K-DFN-30-40
DFN-1575-787-125A-5D-IQ	1.575	1.610	7.87	1.250	1.650	10.01	2.68	40	K-DFN-30-40

8xD

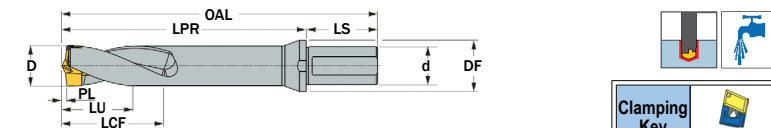
DFN A-8D-IQ (FOR INSERTS USE: HFP-IQ and IFP-IQ)

Indexable head drills with coolant holes and a one flat shank, drilling depth 8 X D

PART #	Dmin ⁽¹⁾	Dmax	d	D3	L	L1	L4	OAL	Seat Size
DFN-1299-1039-125A-8D-IQ	1.299	1.335	1.250	1.650	10.390	11.89	2.36	14.250	33
DFN-1339-1071-125A-8D-IQ	1.339	1.375	1.250	1.650	10.710	12.25	2.36	14.610	34
DFN-1378-1102-125A-8D-IQ	1.378	1.413	1.250	1.650	11.020	12.61	2.36	14.970	35
DFN-1417-1133-125A-8D-IQ	1.417	1.453	1.250	1.650	11.330	12.97	2.36	15.330	36
DFN-1457-1165-125A-8D-IQ	1.457	1.492	1.250	1.650	11.650	13.33	2.36	15.690	37
DFN-1496-1196-125A-8D-IQ	1.496	1.531	1.250	1.650	11.960	13.69	2.36	16.050	38
DFN-1535-1228-125A-8D-IQ	1.535	1.575	1.250	1.650	12.280	14.05	2.36	16.410	39

⁽¹⁾ Do not mount smaller drilling heads than specified range for drill body.

DRILLS FOR THE CONSTRUCTION BEAM INDUSTRY



5xD

DFN 5D-BD (FOR INSERTS USE: IFHP-BD)

Indexable head drills with coolant holes and a one flat shank, drilling depth 5 X D

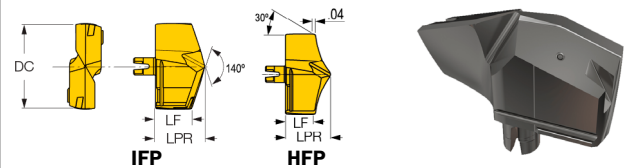
PART #	Dmin ⁽¹⁾	Dmax	LPR	DF	d	LU	LCF	PL	LS	OAL	Seat Size
DFN-1299-275-125A-5D-BD	1.299	1.338	7.858	1.693	1.250	1.9600	2.75	1.6700	2.360	10.220	33.0
DFN-1339-315-125A-5D-BD	1.339	1.378	8.098	1.693	1.250	1.9600	3.15	1.7800	2.360	10.461	34.0
DFN-1417-315-125A-5D-BD	1.414	1.456	8.799	1.693	1.250	1.9600	3.15	1.8700	2.360	10.941	36.0
DFN-1496-315-125A-5D-BD	1.496	1.535	9.094	1.693	1.250	1.9600	3.15	1.9800	2.360	11.457	38.0
DFN-1535-315-125A-5D-BD	1.535	1.575	9.315	1.693	1.250	1.9600	3.15	2.0300	2.360	11.677	39.0

⁽¹⁾ Do not mount smaller drilling heads than specified range for drill body.

IFP-IQ: DRILLING HEAD FOR STEEL, STAINLESS STEEL & HIGH TEMP ALLOYS

IFHP-BD: DRILLING HEAD FOR STEEL & CAST IRON SELF CENTERING

HFP-IQ: DRILLING HEAD FOR STEEL & CAST IRON



IFP DRILLING HEADS

DC	LPR	LF	Seat Size	PART #
1.299	0.728	0.531	33	IFP-1299-SPAIDE-IQ
1.303	0.728	0.530	33	IFP-1303-SPAIDE-IQ
1.307	0.728	0.530	33	IFP-1307-SPAIDE-IQ
1.311	0.728	0.529	33	IFP-1311-SPAIDE-IQ
1.313	0.728	0.529	33	IFP-1313-SPAIDE-IQ
1.315	0.728	0.528	33	IFP-1315-SPAIDE-IQ
1.319	0.728	0.528	33	IFP-1319-SPAIDE-IQ
1.323	0.728	0.527	33	IFP-1323-SPAIDE-IQ
1.327	0.728	0.527	33	IFP-1327-SPAIDE-IQ
1.331	0.728	0.526	33	IFP-1331-SPAIDE-IQ
1.335	0.728	0.525	33	IFP-1335-SPAIDE-IQ
1.339	0.728	0.525	34	IFP-1339-SPAIDE-IQ
1.343	0.728	0.524	34	IFP-1343-SPAIDE-IQ
1.346	0.728	0.521	34	IFP-1346-SPAIDE-IQ
1.350	0.728	0.520	34	IFP-1350-SPAIDE-IQ
1.354	0.728	0.517	34	IFP-1354-SPAIDE-IQ
1.358	0.728	0.516	34	IFP-1358-SPAIDE-IQ
1.362	0.728	0.516	34	IFP-1362-SPAIDE-IQ
1.366	0.728	0.516	34	IFP-1366-SPAIDE-IQ
1.370	0.728	0.517	34	IFP-1370-SPAIDE-IQ
1.374	0.728	0.517	34	IFP-1374-SPAIDE-IQ
1.378	0.728	0.517	34	IFP-1378-SPAIDE-IQ
1.382	0.728	0.516	35	IFP-1382-SPAIDE-IQ
1.386	0.728	0.516	35	IFP-1386-SPAIDE-IQ
1.390	0.728	0.565	35	IFP-1390-SPAIDE-IQ
1.394	0.728	0.564	35	IFP-1394-SPAIDE-IQ
1.398	0.728	0.563	35	IFP-1398-SPAIDE-IQ
1.402	0.728	0.563	35	IFP-1402-SPAIDE-IQ
1.406	0.728	0.562	35	IFP-1406-SPAIDE-IQ
1.409	0.728	0.561	35	IFP-1409-SPAIDE-IQ
1.413	0.728	0.561	35	IFP-1413-SPAIDE-IQ
1.417	0.819	0.604	36	IFP-1417-SPAIDE-IQ
1.425	0.819	0.602	36	IFP-1425-SPAIDE-IQ
1.437	0.819	0.600	36	IFP-1437-SPAIDE-IQ
1.457	0.819	0.598	37	IFP-1457-SPAIDE-IQ
1.461	0.819	0.597	37	IFP-1461-SPAIDE-IQ
1.465	0.819	0.596	37	IFP-1465-SPAIDE-IQ
1.468	0.819	0.596	37	IFP-1469-SPAIDE-IQ
1.472	0.819	0.595	37	IFP-1472-SPAIDE-IQ
1.476	0.819	0.594	37	IFP-1476-SPAIDE-IQ
1.480	0.819	0.594	37	IFP-1480-SPAIDE-IQ
1.484	0.819	0.593	37	IFP-1484-SPAIDE-IQ
1.488	0.819	0.593	37	IFP-1488-SPAIDE-IQ
1.496	0.866	0.639	38	IFP-1496-SPAIDE-IQ
1.500	0.866	0.638	38	IFP-1500-SPAIDE-IQ
1.516	0.866	0.636	38	IFP-1516-SPAIDE-IQ
1.528	0.866	0.634	38	IFP-1528-SPAIDE-IQ
1.531	0.866	0.633	38	IFP-1531-SPAIDE-IQ
1.535	0.866	0.633	39	IFP-1535-SPAIDE-IQ
1.539	0.866	0.632	39	IFP-1539-SPAIDE-IQ
1.543	0.866	0.631	39	IFP-1543-SPAIDE-IQ
1.547	0.866	0.631	39	IFP-1547-SPAIDE-IQ
1.551	0.866	0.630	39	IFP-1551-SPAIDE-IQ
1.555	0.866	0.630	39	IFP-1555-SPAIDE-IQ
1.559	0.866	0.629	39	IFP-1559-SPAIDE-IQ
1.563	0.866	0.629	39	IFP-1563-SPAIDE-IQ
1.567	0.866	0.628	39	IFP-1567-SPAIDE-IQ
1.571	0.866	0.627	39	IFP-1571-SPAIDE-IQ
1.575	0.866	0.627	39	IFP-1575-SPAIDE-IQ

HFP DRILLING HEADS

DC	LPR	LF	Seat Size	PART #
1.299	0.728	0.441	33	HFP-1299-IQ
1.303	0.728	0.441	33	HFP-1303-IQ
1.307	0.728	0.441	33	HFP-1307-IQ
1.311	0.728	0.441	33	HFP-1311-IQ
1.313	0.728	0.441	33	HFP-1313-IQ
1.315	0.728	0.441	33	HFP-1315-IQ
1.319	0.728	0.441	33	HFP-1319-IQ
1.323	0.728	0.441	33	HFP-1323-IQ
1.327	0.728	0.441	33	HFP-1327-IQ
1.331	0.728	0.441	33	HFP-1331-IQ
1.335	0.728	0.441	33	HFP-1335-IQ
1.339	0.728	0.441	33	HFP-1339-IQ
1.343	0.728	0.441	33	HFP-1343-IQ
1.346	0.728	0.441	33	HFP-1346-IQ
1.350	0.728	0.441	33	HFP-1350-IQ
1.354	0.728	0.441	33	HFP-1354-IQ
1.358	0.728	0.441	33	HFP-1358-IQ
1.362	0.728	0.441	33	HFP-1362-IQ
1.366	0.728	0.441	33	HFP-1366-IQ
1.370	0.728	0.441	33	HFP-1370-IQ
1.374	0.728	0.441	33	HFP-1374-IQ
1.378	0.728	0.441	33	HFP-1378-IQ
1.382	0.728	0.441	33	HFP-1382-IQ
1.386	0.728	0.441	33	HFP-1386-IQ
1.390	0.728	0.441	33	HFP-1390-IQ
1.394	0.728	0.441	33	HFP-1394-IQ
1.398	0.728	0.441	33	HFP-1398-IQ
1.402	0.728	0.441	33	HFP-1402-IQ
1.406	0.728	0.441	33	HFP-1406-IQ
1.409	0.728	0.441	33	HFP-1409-IQ
1.413	0.728	0.441	33	HFP-1413-IQ
1.417	0.819	0.500	36	HFP-1417-IQ
1.425	0.819	0.500	36	HFP-1425-IQ
1.433	0.819	0.500	36	HFP-1433-IQ
1.437	0.819	0.500	36	HFP-1437-IQ
1.457	0.819	0.504	37	HFP-1457-IQ
1.467	0.819	0.504	37	HFP-1476-IQ
1.496	0.866	0.543	38	HFP-1496-IQ
1.500	0.866	0.543	38	HFP-1500-IQ
1.516	0.866	0.543	38	HFP-1516-IQ
1.535	0.866	0.535	39	HFP-1535-IQ
1.543	0.866	0.535	39	HFP-1543-IQ
1.553	0.866	0.535	39	HFP-1555-IQ
1.563	0.866	0.535	39	HFP-1563-IQ
1.575	0.906	0.567	39	HFP-1575-IQ

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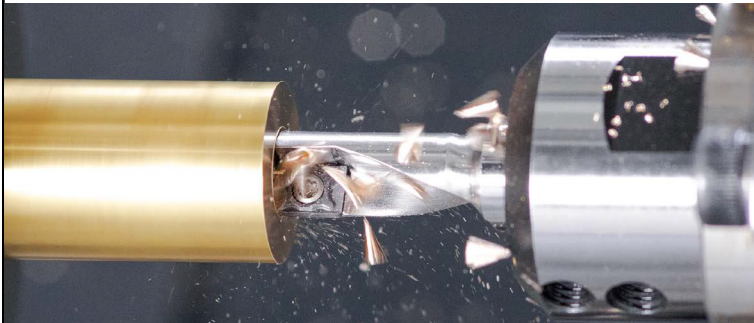
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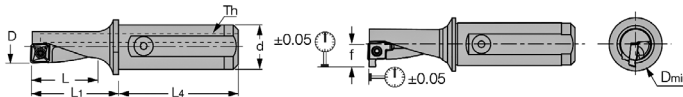
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DRG-MF-I (INCH)

PART #	D	Dmin	f	L	L1	L4	d	Th	INSERT	SPARE PARTS	
										SCREW	KEY
DR-MF-I-08R-2.25D-050A-04	0.315	0.315	-	0.71	0.89	1.65	0.500	G 1/16	XCMT-04	SR-18034/HG-P	IP-6/5
DRG-MF-10R-2.25D-050A-05	0.394	0.472	0.28	0.89	1.08	1.65	0.500	G 1/16	XCMT-05	SR-20038/HG-P	IP-6/5
DRG-MF-12R-2.25D-063A-06	0.472	0.571	0.34	1.06	1.30	1.77	0.630	G 1/8	XCMT-06	SR-22052/HG-P	IP-7/5
DRG-MF-14R-2.25D-063A-07	0.551	0.650	0.37	1.24	1.52	1.77	0.630	G 1/8	XCMT-07	SR-25064/HG-P	IP-8/5
DRG-MF-16R-2.25D-075A-08	0.630	0.748	0.44	1.42	1.73	1.97	0.750	G 1/8	XCMT-08	SR-30070/HG-P	IP-9/151
DRG-MF-20R-2.25D-100A-10	0.787	0.851	0.52	1.77	2.17	2.20	1.000	G 1/8	XCMT-10	SR-35088/HG-P	IP-10/151
DRG-MF-25R-2.25D-125A-13	0.984	1.142	0.65	2.22	2.72	2.40	1.250	G 1/8	XCMT-13	SR-45A100/HG	IP-20/51
DRG-MF-32R-2.25D-150A-17	1.260	1.437	0.81	2.84	3.39	2.91	1.500	G 1/8	XCMT-17	SR-45A100/HG	IP-20/51

DRG-MF (METRIC)

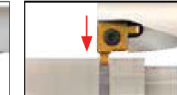
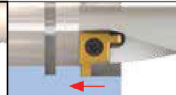
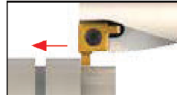
PART #	D	Dmin	f	L	L1	L4	d	Th	INSERT	SPARE PARTS	
										SCREW	KEY
DR-MF-08R/L-2.25D-12A-04	8.00	8.00	-	18.0	22.5	42.0	12.00	G 1/16	XCMT-04	SR-18034/HG-P	IP-6/5
DRG-MF-10R/L-2.25D-12A-05	10.00	12.00	7.10	22.5	27.5	42.0	12.00	G 1/16	XCMT-05	SR-20038/HG-P	IP-6/5
DRG-MF-12R/L-2.25D-16A-06	12.00	14.50	8.50	27.0	33.0	45.0	16.00	G 1/8	XCMT-06	SR-22052/HG-P	IP-7/5
DRG-MF-14R/L-2.25D-16A-07	14.00	16.50	9.50	31.5	38.5	45.0	16.00	G 1/8	XCMT-07	SR-25064/HG-P	IP-8/5
DRG-MF-16R/L-2.25D-20A-08	16.00	19.00	11.10	36.0	44.0	50.0	20.00	G 1/8	XCMT-08	SR-30070/HG-P	IP-9/151
DRG-MF-20R/L-2.25D-25A-10	20.00	23.50	13.20	45.0	55.0	56.0	25.00	G 1/8	XCMT-10	SR-35088/HG-P	IP-10/151
DRG-MF-25R/L-2.25D-32A-13	25.00	29.00	16.50	56.5	69.0	61.0	32.00	G 1/8	XCMT-13	SR-45A100/HG	IP-20/51
DRG-MF-32R/L-2.25D-40A-17	32.00	36.50	20.50	72.0	86.0	74.0	40.00	G 1/8	XCMT-17	SR-45A100/HG	IP-20/51

External

Internal

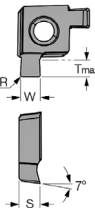
External

Internal



XCMT-MG GROOVING INSERTS

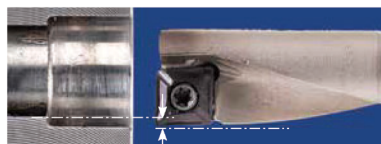
Two cutting edged internal grooving inserts for DRG-MF Multi-Function tools



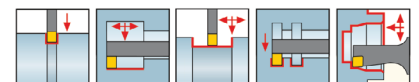
PART #	W±0.01	Tmax-r	R	S
XCMT-05R-15718015MG	0.062	0.071	0.006	0.090
XCMT-06R-17820018MG	0.070	0.071	0.007	0.090
XCMT-07R-19620015MG	0.077	0.071	0.006	0.090
XCMT-05R-201802-MG	0.079	0.071	0.008	0.090
XCMT-06R-202002-MG	0.079	0.079	0.008	0.104
XCMT-08R-22125015MG	0.087	0.079	0.006	0.134
XCMT-10R-23930015MG	0.094	0.079	0.006	0.134
XCMT-07R-252002-MG	0.098	0.079	0.008	0.134
XCMT-08R-252502-MG	0.098	0.098	0.008	0.138
XCMT-10R-303003-MG	0.118	0.118	0.012	0.171
XCMT-13R-31835020MG	0.125	0.138	0.008	0.204
XCMT-13R-353503-MG	0.138	0.138	0.012	0.204
XCMT-17R-404004-MG	0.157	0.157	0.016	0.236

Radial Adjustment (off-center drilling)

• Radial adjustment depends on drill diameter



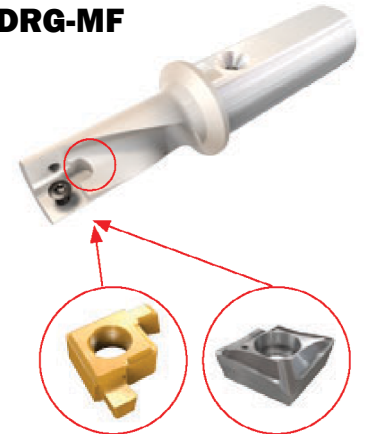
PART #	DRILL DIA.	Dmin	Dmax
DRG-MF-10	0.394 (10 mm)	0.387	0.457
DRG-MF-12	0.472 (12 mm)	0.456	0.496
DRG-MF-14	0.551 (14 mm)	0.543	0.575
DRG-MF-16	0.630 (16 mm)	0.620	0.650



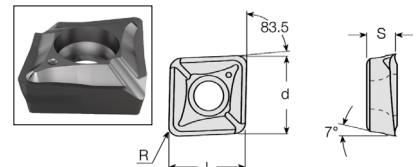
WITH INTERNAL COOLANT HOLES

- In non-rotating applications hole diameter can be adjusted within the specified range by shifting drill's center line along machine's X-axis.

DRG-MF



XCMT-MF INSERTS



PART #	d	l	S	R
XCMT-040104R/L-MF	0.173	0.173	0.067	0.016
XCMT-050204-MF	0.220	0.220	0.083	0.016
XCMT-060204-MF	0.251	0.251	0.094	0.016
XCMT-070304-MF	0.294	0.294	0.125	0.016
XCMT-080304-MF	0.332	0.332	0.125	0.016
XCMT-10T304-MF	0.413	0.413	0.156	0.016
XCMT-10T308-MF	0.413	0.413	0.156	0.031
XCMT-130404-MF	0.528	0.528	0.187	0.016
XCMT-130408-MF	0.528	0.528	0.187	0.031
XCMT-170508-MF	0.685	0.685	0.219	0.031

Two cutting edges. For hard materials and interrupted cut. Low cutting forces due to high cutting edges and positive angles.



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1 Use Promo Code: T2502

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on the corresponding GQHINR/L... holder

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Receive

Corresponding GQHINR/L... holder

Free of Charge

**SPECIAL
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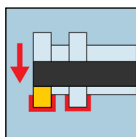
INTELLIGENTLY?



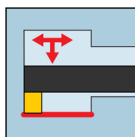
QUICKIGROOVE Internal Grooving & Turning Bars for Small Dia.

• Innovated 4 Cutting Edges Inserts

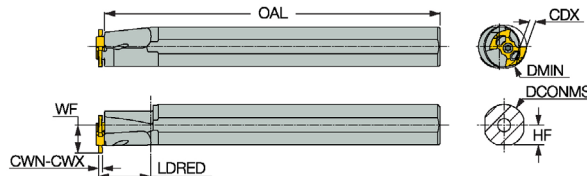
• Coolant Pinpointed to the Cutting Edge



Int. Grooving



Int. Groove & Turn

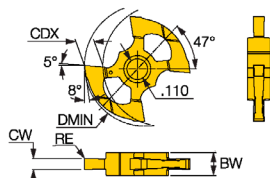


PART #	CWN ⁽¹⁾	CW ⁽²⁾	DCONMS	DMIN	CDX ⁽³⁾	OAL	LDRED	WF	HF	SPARE PARTS		
										SCREW	KEY	PLUG
GQHINR/L-15.9C-16.5-20	0.039	0.118	0.625	0.650	0.098	5.118	0.787	0.417	0.287	SR 14-560	T-8/5	PL 16
GQHINR/L-15.9C-16.5-40	0.039	0.118	0.625	0.650	0.098	5.906	1.575	0.417	0.287	SR 14-560	T-8/5	PL 16
GQHINR/L-19C-24	0.039	0.118	0.750	0.945	0.098	6.299	2.362	0.512	0.338	SR 14-560	T-8/5	PL 20

⁽¹⁾ Minimum cutting width ⁽²⁾ Maximum cutting width ⁽³⁾ Cutting depth maximum

QUICKIGROOVE Inserts CGHN 32...M

4 Cutting Edges Precision Ground
Inserts for Internal Grooving and
Recessing Operations



- Cutting edge with high positive rake, suitable for thin walled parts and for small diameters
- Suitable for machining soft materials and bearing steel at low to medium feeds

PART #	CW	RE	DMIN	CDX	BW
GQIN-1.00-0.05	0.039	0.0020	0.65	0.098	0.122
GQIN-1.50-0.10	0.059	0.0039	0.65	0.098	0.122
GQIN-2.00-0.20	0.079	0.0079	0.65	0.098	0.122
GQIN-2.50-0.20	0.098	0.0079	0.65	0.098	0.122
GQIN-3.00-0.20	0.118	0.0079	0.65	0.098	0.122

QUICK2CUT^{MINI}

Valid until September 30th 2025

High Precision Tangential Insert for Grooving and Parting Suitable for Swiss Type Machines

Stable mounting and safe machining with excellent repeatability.

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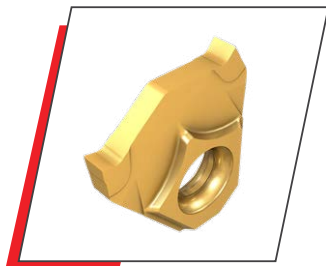
2 Purchase

20 TGV... inserts from same size widths 0.3-2mm

Receive

on the corresponding TGV/L... holder

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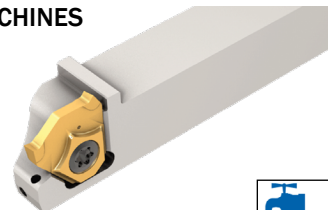
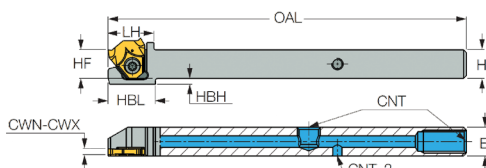


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GROOVING & PARTING WITH HIGH PRECISION TANGENTIAL INSERT SUITABLE FOR SWISS TYPE MACHINES

TGVR/L-JHP

Grooving, Parting and Recessing Tools Carrying TGV Inserts with Channels for High-Pressure Coolant



Pinpointed Coolant Improves Chip Evacuation, Increased Insert Tool Life and High Surface Finish.

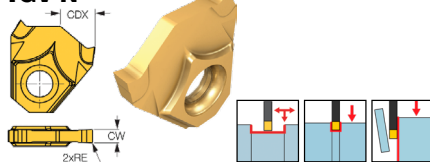
Toolholders

PART #	H	HF	B	CWN ⁽¹⁾	CWX ⁽²⁾	OAL	LH	HBL	HBH	CNT	CNT 2	INSERT
TGVR-L-9.5-JHP	0.374	0.374	0.374	0.013	0.079	40.921	0.630	0.650	0.098	5/16-24	M4	TGV-N2.00P-0.1
TGVR-L-12.7-JHP	0.500	0.500	0.500	0.013	0.079	40.921	0.630	-	-	5/16-24	M4	TGV-N2.00P-0.1
TGVR-L-1616-JHP	0.630	0.630	0.630	0.013	0.079	40.921	0.630	-	-	5/16-24	M4	TGV-N2.00P-0.1

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

INSERTS

TGV N

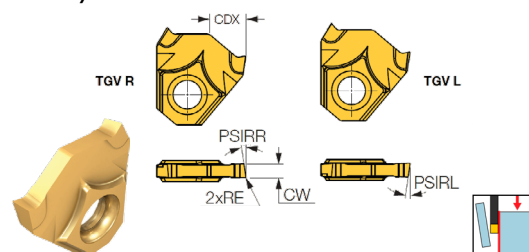


PART #	CW	RE	CWTOL ⁽¹⁾	RETOL ⁽¹⁾	CDX
TGV-N033P-000	0.013	0.0000	0.00078	0.0012	0.079
TGV-N050P-000	0.020	0.0000	0.00078	0.0012	0.098
TGV-N075P-005	0.030	0.0020	0.00078	0.0012	0.118
TGV-N1.00P-005	0.039	0.0020	0.00078	0.0012	0.157
TGV-N2.00P-0.1	0.079	0.0039	0.00078	0.0012	0.236

- Cutting edge with high positive rake, suitable for parting tubes, thin walled parts and for small diameters
- Suitable for machining soft materials and bearing steel at low to medium feeds

⁽¹⁾ Cutting width tolerance (+/-) ⁽²⁾ Corner radius tolerance (+/-)

TGV R/L



PART #	CW	PSIRL	PSIRR	RE	CDX
TGV-L1.00P-0.05-8D	0.039	8°	-	0.002	0.157
TGV-R1.00P-0.05-8D	0.039	-	8°	0.002	0.157
TGV-L2.00P-0.05-8D	0.079	8°	-	0.002	0.236
TGV-R2.00P-0.05-8D	0.079	-	8°	0.002	0.236

- Cutting edge with high positive rake, suitable for parting small and miniature parts
- With Lead Angle Cutting Edge to Minimize Burr Size

Depth Capacity

Determining depth of cut (Tmax) as a function of workpiece diameter (Dmax.)

W (Insert)	Tmax	Dmax	≤.020	≤.039	≤.059	≤.079	≤.098	≤.118
0.013	0.079	0.945	-	-	-	-	-	-
0.020	0.098	0.787	-	-	-	-	-	-
0.030	0.118	0.709	2.835	1.772	1.220	0.945	0.787	0.709
0.039	0.157	0.591	-	-	-	-	-	-
0.079	0.236	0.472	-	-	-	-	-	-

W (Insert)	Tmax	Dmax	≤.138	≤.157	≤.177	≤.197	≤.217	≤.236
0.013	0.079	0.945	-	-	-	-	-	-
0.020	0.098	0.787	-	-	-	-	-	-
0.030	0.118	0.709	-	-	-	-	-	-
0.039	0.157	0.591	-	-	-	-	-	-
0.079	0.236	0.472	0.630	0.591	0.551	0.512	0.512	0.472



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New Generation Penta 24 Inserts & Tools for Grooving, Parting, and Light Turning

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on the corresponding PCHL/R...-QC body

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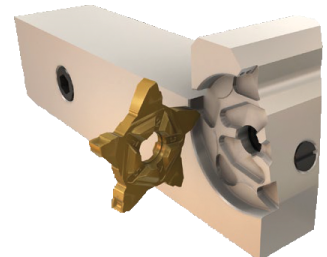
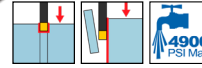
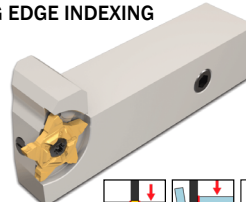
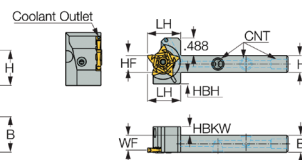
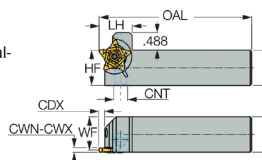
QUICKPENTA

GROOVING, PARTING & LIGHT TURNING

UTILIZING SAFE LOCK CLAMPING FOR EASY INSERT REPLACEMENT AND QUICK CUTTING EDGE INDEXING

PCHR/L-24-JHP-QC

Grooving, parting and recessing tools with safety lock clamping for five cutting-edged pentagonal-shaped inserts. SAFE-T-LOCK clamping mechanism with superior insert stability for fast and precise indexing.



PCHR/L-24-JHP-QC HOLDERS WITH COOLANT HOLES

PART #	H	HF	B	CWN ⁽¹⁾	CWX ⁽²⁾	CDX	WF	HBKW	OAL	CNT	LH	HBH	Insert
PCHR/L-12.7-24-JHP-QC	0.500	0.500	0.500	0.020	0.125	0.252	0.441	0.2091	3.937	UNF 5/16-24	0.925	0.287	PENTA-24...SL
PCHR/L-16-24-JHP-QC	0.630	0.630	0.630	0.020	0.125	0.252	0.571	0.0787	3.681	UNF 5/16-24	0.925	0.157	PENTA-24...SL
PCHR/L-19-24-JHP-QC	0.748	0.748	0.748	0.020	0.125	0.252	0.691	-	5.315	G1/8	0.925	0.250	PENTA-24...SL
PCHR/L-25.4-24-JHP-QC	1.000	1.000	1.000	0.020	0.125	0.252	0.941	-	5.315	G1/8	0.925	-	PENTA-24...SL

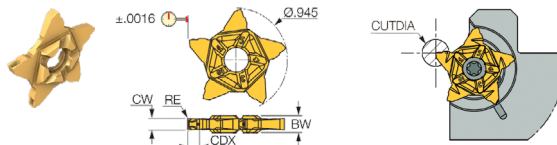
⁽¹⁾ Minimum cutting width ⁽²⁾ Maximum cutting width

The holders have bumps to safe-lock the insert in place. 'Old' inserts will fit in these QUICKPENTA holders. The new inserts (shown below) will not fit in the 'old' holders

INSERTS

PENTA 24N-C-SL

Parting and Precision Grooving Insert with 5 Cutting Edges/ Can Be Clamped on Standard PENTA CUT Holders.



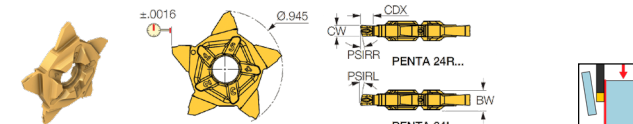
PART #	CW	CWTOL ⁽¹⁾	RE	RETOL ⁽²⁾	CDX ⁽³⁾	BW
PENTA-24N200C020SL	0.079	0.00078	0.0079	0.0012	0.236	0.157
PENTA-24N300C020SL	0.118	0.00078	0.0079	0.0012	0.244	0.157

* CUTDIA as a function of depth of cut (CDX).

⁽¹⁾ Cutting width tolerance (+/-) ⁽²⁾ Corner radius tolerance (+/-) ⁽³⁾ Cutting depth maximum

PENTA 24R/L-DSL

Parting Insert with 5 Angled Cutting Edges to Minimize Burr Size. Can Be Clamped on Standard PENTA CUT Holders.



PART #	CW	CWTOL ⁽¹⁾	CDX ⁽²⁾	PSIRL	PSIRR	CUTDIA
PENTA-24L100J15DSL	0.039	0.00078	0.138	15.0	-	0.276
PENTA-24R100J15DSL	0.039	0.00078	0.138	-	15.0	0.276
PENTA-24L150J06DSL	0.059	0.00078	0.197	6.0	-	0.394
PENTA-24R150J06DSL	0.059	0.00078	0.197	-	6.0	0.394
PENTA-24L200J06DSL	0.079	0.00078	0.236	6.0	-	0.472
PENTA-24R200J06DSL	0.079	0.00078	0.236	-	6.0	0.472

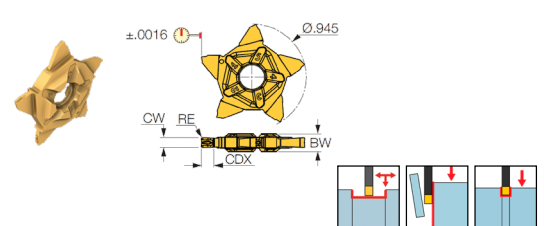
* CUTDIA - parting to center * CUTDIA as a function depth of cut (CDX)

⁽¹⁾ Cutting width tolerance (+/-) ⁽²⁾ Cutting depth maximum

INSERTS

PENTA 24N-J-SL

Inserts with 5 Cutting Edges for Parting and Grooving Soft Materials. Can Be Clamped on Standard PENTA CUT Holders.



PART #	CW	CWTOL ⁽¹⁾	RE	RETOL ⁽²⁾	CDX ⁽³⁾	BW
PENTA-24N050J004SL	0.020	0.00078	0.0016	0.0008	0.098	0.157
PENTA-24N100J006SL	0.039	0.00078	0.0024	0.0008	0.138	0.157
PENTA-24N150J010SL	0.059	0.00078	0.0039	0.0008	0.197	0.157
PENTA-24N200J020SL	0.079	0.00078	0.0079	0.0012	0.236	0.157
PENTA-24N247J020SL	0.097	0.00078	0.0079	0.0012	0.197	0.157
PENTA-24N300J020SL	0.118	0.00078	0.0079	0.0012	0.244	0.157

* CUTDIA as a function of depth of cut (CDX).

⁽¹⁾ Cutting width tolerance (+/-) ⁽²⁾ Corner radius tolerance (+/-) ⁽³⁾ Cutting depth maximum

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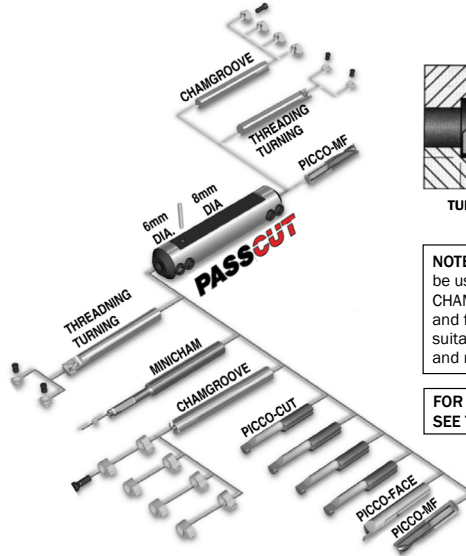
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PICCO-CUT

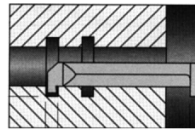
MINIATURE SMALL DIAMETER MACHINING SYSTEMS

THE PICCO-CUT SYSTEM FEATURES REPLACEABLE CARBIDE INSERTS THAT FIT INTO ACCURATE HOLDERS TO EXECUTE THE FOLLOWING OPERATIONS:

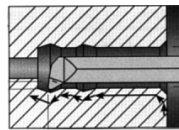


NOTE: "PASSCUT" holders can be used for PICCO inserts for CHAMGROOVE carbide bars and for ISO bars. Holders are suitable for both left-hand and right-hand tools.

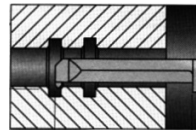
FOR PICCO-CUT INSERTS SEE THE FOLLOWING PAGES.



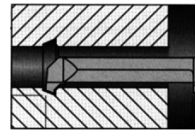
TURNING & GROOVING



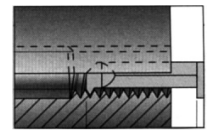
PROFILING



TURNING & 45° CHAMFERING

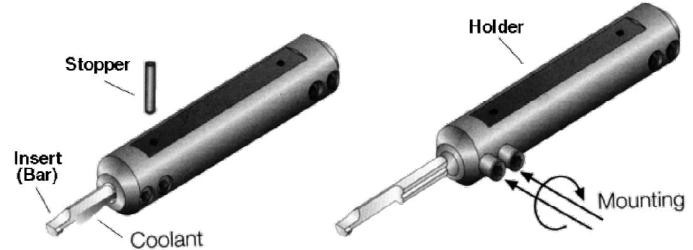


UNDERCUTTING & CHAMFERING



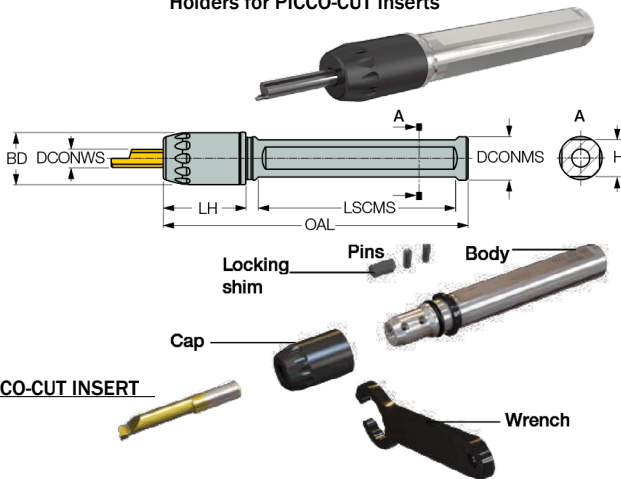
TREADING

PICCO-CUT HOLDERS



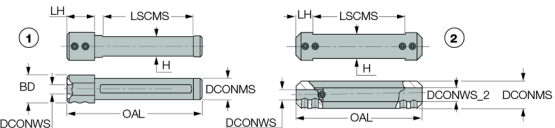
ACECUT PICCO ACE HOLDERS

Holders for PICCO-CUT Inserts



PASSCUT PICCO & MG-PCO HOLDERS

Holders for PICCO-CUT Inserts and Small Diameter Boring Bars



INCH HOLDERS

PART #	DCONMS	DCONWS	DCONWS_2	OAL	LH	LSCMS	H	BD	Fig.
PICCO-12.7-4-5	0.500	0.157	0.197	2.950	0.394	2.170	0.410	-	2
PICCO-15.9-4-5	0.625	0.157	0.197	2.950	0.394	2.170	0.550	-	2
PICCO-19-4-5	0.750	0.157	0.197	3.540	0.394	2.760	0.710	-	2
PICCO-25.4-4-5 (1)	1.000	0.157	0.197	3.543	0.394	2.756	0.921	-	2
PICCO-15.9-6-7	0.625	0.236	0.276	2.950	0.394	2.170	0.550	-	2
PICCO-19-6-7	0.750	0.236	0.276	3.540	0.394	2.760	0.710	-	2
PICCO-25.4-6-7 (1)	1.000	0.236	0.276	3.543	0.394	2.756	0.921	-	2
MG-PCO-15.9-6-8	0.625	0.236	0.315	3.000	0.390	2.170	0.551	-	2
MG-PCO-19-6-8	0.750	0.236	0.315	3.500	0.390	2.760	0.709	-	2
MG-PCO-25.4-6-8 (1)	1.000	0.236	0.315	3.543	0.394	2.756	0.921	-	2

• Holders are suitable for left- and right-hand inserts, and boring bars

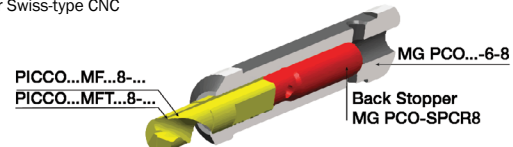
(1) Tools for Swiss-type CNC

METRIC HOLDERS

PART #	DCONMS	DCONWS	DCONWS_2	OAL	LH	LSCMS	H	BD	Fig.
PICCO-12-4-5	12.00	4.00	5.00	75.00	10.00	55.00	10.3	-	2
PICCO-16-4-5	16.00	4.00	5.00	75.00	10.00	55.00	14.0	-	2
PICCO-20-4-5	20.00	4.00	5.00	90.00	10.00	70.00	18.0	-	2
PICCO-22-4-5 (1)	22.00	4.00	5.00	90.00	10.00	70.00	20.0	-	2
PICCO-16-6-7	16.00	6.00	7.00	75.00	10.00	55.00	14.0	-	2
PICCO-20-6-7	20.00	6.00	7.00	90.00	10.00	70.00	18.0	-	2
PICCO-22-6-7 (1)	22.00	6.00	7.00	90.00	10.00	70.00	20.0	-	2
MG-PCO-16-6-8	16.00	6.00	8.00	75.00	10.00	55.00	14.0	-	2
MG-PCO-20-6-8	20.00	6.00	8.00	90.00	10.00	70.00	18.0	-	2
MG-PCO-22-6-8 (1)	22.00	6.00	8.00	90.00	10.00	70.00	20.0	-	2
MG-PCO-25-6-8	25.00	6.00	8.00	90.00	10.00	70.00	23.0	-	2

• Holders are suitable for right- and left-hand inserts, and boring bars

(1) Tools for Swiss-type CNC



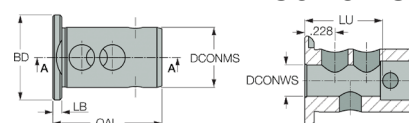
INCH SIZES

PART #	DCONMS	DCONWS	BD	OAL	LH	LSCMS	H
PICCO-ACE-12.7-4	0.500	0.157	0.571	3.346	0.906	2.087	0.457
PICCO-ACE-12.7-5	0.500	0.197	0.571	3.346	0.906	2.087	0.457
PICCO-ACE-15.9-4	0.625	0.157	0.571	3.346	0.846	2.087	0.551
PICCO-ACE-15.9-5	0.625	0.197	0.571	3.346	0.846	2.087	0.551
PICCO-ACE-15.9-6	0.625	0.236	0.783	3.346	0.906	2.087	0.551
PICCO-ACE-15.9-7	0.625	0.276	0.783	3.346	0.906	2.087	0.551
PICCO-ACE-19-4	0.750	0.157	0.571	5.906	0.846	4.646	0.677
PICCO-ACE-19-5	0.750	0.197	0.571	5.906	0.846	4.646	0.677
PICCO-ACE-19-6	0.750	0.236	0.783	5.906	0.906	4.646	0.677
PICCO-ACE-19-7	0.750	0.276	0.783	5.906	0.906	4.646	0.677
PICCO-ACE-25.4-4	1.000	0.157	0.571	5.906	0.846	4.646	0.905
PICCO-ACE-25.4-5	1.000	0.197	0.571	5.906	0.846	4.646	0.905
PICCO-ACE-25.4-6	1.000	0.236	0.783	5.906	0.846	4.646	0.905
PICCO-ACE-25.4-7	1.000	0.276	0.783	5.906	0.846	4.646	0.905

METRIC SIZES (mm)

PART #	DCONMS	DCONWS	BD	OAL	LH	LSCMS	H
PICCO-ACE-12-4	12.00	4.00	14.50	85.00	23.00	53.00	10.3
PICCO-ACE-12-5	12.00	5.00	14.50	85.00	23.00	53.00	10.3
PICCO-ACE-16-4	16.00	4.00	14.50	85.00	21.50	53.50	14.0
PICCO-ACE-16-5	16.00	5.00	14.50	85.00	21.50	53.50	14.0
PICCO-ACE-16-6	16.00	6.00	19.90	85.00	23.00	53.50	14.0
PICCO-ACE-16-7	16.00	7.00	19.90	85.00	23.00	53.50	14.0
PICCO-ACE-20-4	20.00	4.00	14.50	150.00	21.50	118.00	18.0
PICCO-ACE-20-5	20.00	5.00	14.50	150.00	21.50	118.00	18.0
PICCO-ACE-20-6	20.00	6.00	19.90	150.00	21.50	118.00	18.0
PICCO-ACE-20-7	20.00	7.00	19.90	150.00	21.50	118.00	18.0
PICCO-ACE-22-4	22.00	4.00	14.50	150.00	21.50	118.00	20.0
PICCO-ACE-22-5	22.00	5.00	14.50	150.00	21.50	118.00	20.0
PICCO-ACE-22-6	22.00	6.00	19.90	150.00	21.50	118.00	20.0
PICCO-ACE-22-7	22.00	7.00	19.90	150.00	21.50	118.00	20.0
PICCO-ACE-25-4	25.00	4.00	14.50	150.00	21.50	118.00	20.0
PICCO-ACE-25-5	25.00	5.00	14.50	150.00	21.50	118.00	20.0
PICCO-ACE-25-6	25.00	6.00	19.90	150.00	21.50	118.00	20.0
PICCO-ACE-25-7	25.00	7.00	19.90	150.00	21.50	118.00	20.0

QUICKSWISS REDUCTION SLEEVES



PART #	DCONMS	DCONWS	LSCMS	LU	BD	OAL	LB
SC-12-4-PICCO	0.472	0.1575	0.591	0.5906	0.6693	0.858	0.071
SC-12-5-PICCO	0.472	0.1969	0.591	0.5906	0.6693	0.858	0.071
SC-12-6-PICCO	0.472	0.2362	0.591	0.5906	0.6693	0.858	0.071
SC-12-7-PICCO	0.472	0.2756	0.591	0.5906	0.6693	0.858	0.071
SC-12-8-PICCO	0.472	0.3150	0.591	0.5906	0.6693	0.858	0.071

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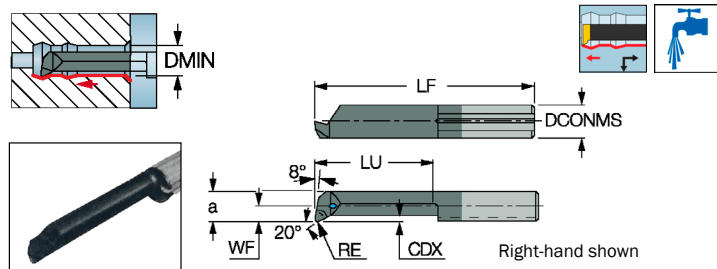


PICCOJET
COOLANT THROUGH

INSERTS WITH INTERNAL COOLANT HOLES

PICJ R/L 050, 053, 055

Inserts with Inner Coolant Channel for Internal Turning and Chamfering

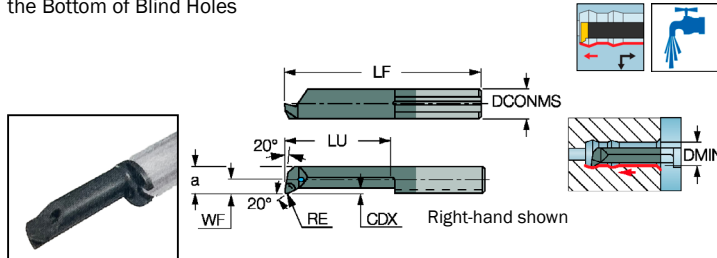


PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF
PICJ-RT20D08R04-4	0.157	0.031	0.003	0.1575	0.002	0.787	0.028	-0.051
PICJ-RT20D10R05-5	0.157	0.039	0.004	0.1772	0.002	0.787	0.035	-0.043
PICJ-RT20D10R05-7	0.157	0.039	0.004	0.2559	0.002	0.866	0.035	-0.043
PICJ-RT20D15R05-5	0.157	0.059	0.004	0.1575	0.002	0.748	0.051	-0.028
PICJ-RT20D15R05-10	0.157	0.059	0.004	0.3543	0.002	0.945	0.051	-0.028
PICJ-RT20D20R05-5	0.157	0.079	0.004	0.1575	0.002	0.748	0.067	-0.012
PICJ-RT20D20R05-10	0.157	0.079	0.004	0.3543	0.002	0.945	0.067	-0.012
PICJ-RT20D20R05-15	0.157	0.079	0.004	0.5512	0.002	1.142	0.067	-0.012
PICJ-RT20D25R05-5	0.157	0.098	0.006	0.1575	0.002	0.748	0.087	0.008
PICJ-RT20D25R05-10	0.157	0.098	0.006	0.3543	0.002	0.945	0.087	0.008
PICJ-RT20D25R05-16	0.157	0.098	0.006	0.5906	0.002	1.181	0.087	0.008
PICJ-RT20D30R03-10	0.157	0.110	0.008	0.3543	0.001	0.945	0.102	0.024
PICJ-RT20D30R03-10-10	0.157	0.110	0.008	0.3543	0.004	0.945	0.102	0.024
PICJ-RT20D30R03-16	0.157	0.110	0.008	0.5906	0.001	1.181	0.102	0.024
PICJ-RT20D30R03-16-16	0.157	0.110	0.008	0.5906	0.004	1.181	0.102	0.024
PICJ-RT20D30R10-20	0.157	0.110	0.008	0.7480	0.004	1.339	0.102	0.024
PICJ-RT20D35R10-10	0.157	0.138	0.010	0.3543	0.004	0.945	0.122	0.043
PICJ-RT20D35R10-16	0.157	0.138	0.010	0.5906	0.004	1.181	0.122	0.043
PICJ-RT20D35R10-20	0.157	0.138	0.010	0.7480	0.004	1.339	0.122	0.043
PICJ-RT20D35R10-24	0.157	0.138	0.010	0.9055	0.004	1.496	0.122	0.043
PICJ-RT20D40R03-10	0.157	0.157	0.012	0.3543	0.001	0.945	0.138	0.059
PICJ-RT20D40R10-10	0.157	0.157	0.012	0.3543	0.004	0.945	0.138	0.059
PICJ-RT20D40R03-16	0.157	0.157	0.012	0.5906	0.001	1.181	0.138	0.059
PICJ-RT20D40R10-16	0.157	0.157	0.012	0.5906	0.004	1.181	0.138	0.059
PICJ-RT20D40R03-20	0.157	0.157	0.012	0.7480	0.001	1.339	0.138	0.059
PICJ-RT20D40R10-20	0.157	0.157	0.012	0.7480	0.004	1.339	0.138	0.059
PICJ-RT20D40R10-24	0.157	0.157	0.012	0.9055	0.004	1.496	0.138	0.059
PICJ-RT20D40R10-28	0.157	0.157	0.012	1.0630	0.004	1.654	0.138	0.059
PICJ-RT20D50R05-10	0.197	0.197	0.020	0.3543	0.002	0.984	0.173	0.075
PICJ-RT20D50R15-10	0.197	0.197	0.020	0.3543	0.006	0.984	0.173	0.075
PICJ-RT20D50R05-15	0.197	0.197	0.020	0.5512	0.002	1.181	0.173	0.075
PICJ-RT20D50R15-15	0.197	0.197	0.020	0.5512	0.006	1.181	0.173	0.075
PICJ-RT20D50R05-20	0.197	0.197	0.020	0.7480	0.002	1.378	0.173	0.075
PICJ-RT20D50R15-20	0.197	0.197	0.020	0.7480	0.006	1.378	0.173	0.075
PICJ-RT20D50R05-25	0.197	0.197	0.020	0.9449	0.002	1.575	0.173	0.075
PICJ-RT20D50R15-25	0.197	0.197	0.020	0.9449	0.006	1.575	0.173	0.075
PICJ-RT20D50R15-30	0.197	0.197	0.020	1.1417	0.006	1.772	0.173	0.075
PICJ-RT20D50R15-35	0.197	0.197	0.020	1.3386	0.006	1.968	0.173	0.075
PICJ-RT20D60R05-15	0.236	0.236	0.020	0.5512	0.002	1.181	0.209	0.091
PICJ-RT20D60R15-15	0.236	0.236	0.020	0.5512	0.006	1.181	0.209	0.091
PICJ-RT20D60R05-22	0.236	0.236	0.020	0.8268	0.002	1.457	0.209	0.091
PICJ-RT20D60R15-22	0.236	0.236	0.020	0.8268	0.006	1.457	0.209	0.091
PICJ-RT20D60R05-25	0.236	0.236	0.020	0.9449	0.002	1.575	0.209	0.091
PICJ-RT20D60R15-25	0.236	0.236	0.020	0.9449	0.006	1.575	0.209	0.091
PICJ-RT20D60R05-30	0.236	0.236	0.020	1.1417	0.002	1.772	0.209	0.091
PICJ-RT20D60R15-30	0.236	0.236	0.020	1.1417	0.006	1.772	0.209	0.091
PICJ-RT20D60R15-35	0.236	0.236	0.020	1.3386	0.006	1.968	0.209	0.091
PICJ-RT20D60R15-42	0.236	0.236	0.020	1.6142	0.006	2.244	0.209	0.091
PICJ-RT20D70R15-20	0.276	0.268	0.024	0.7480	0.006	1.378	0.248	0.110
PICJ-RT20D70R15-25	0.276	0.268	0.024	0.9449	0.006	1.575	0.248	0.110
PICJ-RT20D70R15-30	0.276	0.268	0.024	1.1417	0.006	1.772	0.248	0.110
PICJ-RT20D70R15-35	0.276	0.268	0.024	1.3386	0.006	1.968	0.248	0.110
PICJ-RT20D70R15-40	0.276	0.268	0.024	1.5354	0.006	2.165	0.248	0.110
PICJ-RT20D70R15-45	0.276	0.268	0.024	1.7323	0.006	2.362	0.248	0.110
PICJ-RT20D70R15-50	0.276	0.268	0.024	1.9291	0.006	2.559	0.248	0.110

(1) Cutting depth maximum

PICJ R 050.20

Inserts with Inner Coolant Channel for Internal Turning and Chamfering Next to the Bottom of Blind Holes

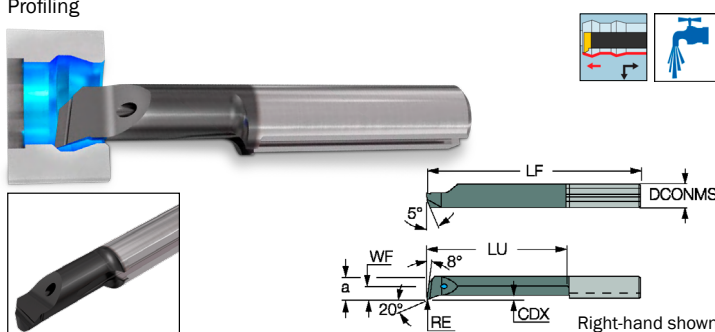


PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF
PICJ-RT20D20R05-10	0.157	0.079	0.004	0.3543	0.002	0.945	0.067	-
PICJ-RT20D20R05-10-10	0.157	0.110	0.008	0.3543	0.004	0.945	0.102	0.024
PICJ-RT20D20R05-16	0.157	0.157	0.012	0.5906	0.004	1.181	0.138	0.059
PICJ-RT20D20R05-16-16	0.197	0.197	0.020	0.7480	0.006	1.378	0.173	0.075

(1) Cutting depth maximum

PICJ R/L 050-C

Inserts with Chipformers and Inner Coolant Channel for Internal Boring and Profiling

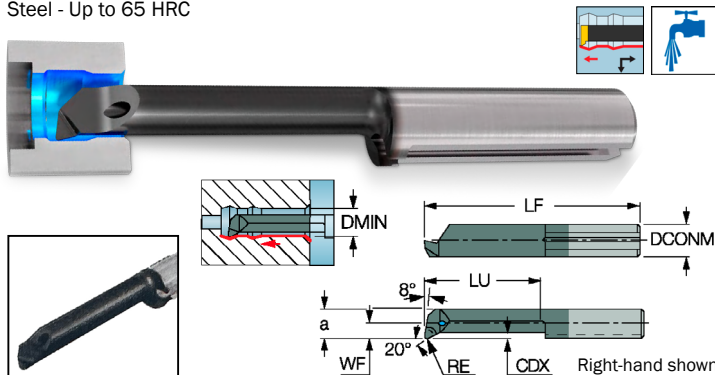


PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF
PICJ-RT20D40R10-10C	0.157	0.157	0.012	0.350	0.0039	0.945	0.138	0.059
PICJ-RT20D40R10-20C	0.157	0.157	0.012	0.750	0.0039	1.339	0.138	0.059
PICJ-RT20D40R10-28C	0.157	0.157	0.012	1.060	0.0039	1.654	0.138	0.059
PICJ-RT20D50R15-20C	0.197	0.197	0.020	0.750	0.0059	1.378	0.173	0.075
PICJ-RT20D50R15-25C	0.236	0.236	0.020	0.550	0.0059	1.181	0.209	0.091
PICJ-RT20D60R15-22C	0.236	0.236	0.020	0.830	0.0059	1.457	0.209	0.091
PICJ-RT20D70R15-20C	0.276	0.268	0.024	0.750	0.0059	1.378	0.248	0.110

(1) Cutting depth maximum

PICJ R/LHD 050

Inserts with Inner Coolant Channel for Internal Turning and Chamfering of Hard Steel - Up to 65 HRC

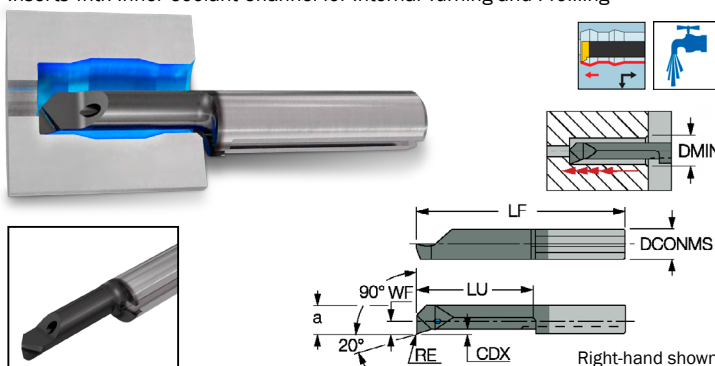


PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF
PICJ-RT20D30R10-16	0.157	0.110	0.008	0.5906	0.004	1.181	0.102	0.024
PICJ-RT20D40R10-20	0.157	0.157	0.012	0.7480	0.004	1.339	0.138	0.059
PICJ-RT20D70R15-20	0.276	0.268	0.024	0.7480	0.006	1.378	0.248	0.110

(1) Cutting depth maximum

PICJ R/L 090

Inserts with Inner Coolant Channel for Internal Turning and Profiling



PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF
PICJ-RT90D30R10-10	0.157	0.110	0.008	0.3543	0.004	0.945	0.102	0.024
PICJ-RT90D30R10-16	0.157	0.110	0.008	0.5512	0.004	1.181	0.102	0.024
PICJ-RT90D40R10-10	0.157	0.157	0.012	0.3543	0.004	0.945	0.138	0.059
PICJ-RT90D40R10-16	0.157	0.157	0.012	0.5512	0.004	1.181	0.138	0.059
PICJ-RT90D50R15-10	0.197	0.197	0.020	0.3543	0.006	0.984	0.173	0.075
PICJ-RT90D50R15-15	0.197	0.197	0.020	0.5512	0.006	1.181	0.173	0.075
PICJ-RT90D50R15-20	0.197	0.197	0.020	0.7480	0.006	1.378	0.173	0.075

(1) Cutting depth maximum



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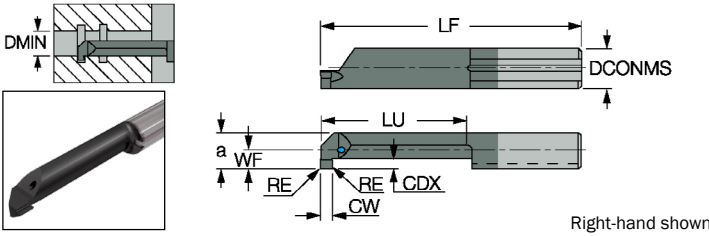


PICCOJET
COOLANT THROUGH

INSERTS WITH INTERNAL COOLANT HOLES

PICJ R/L 002-007

Inserts with Inner Coolant Channel for
Internal Grooving and Turning



Right-hand shown

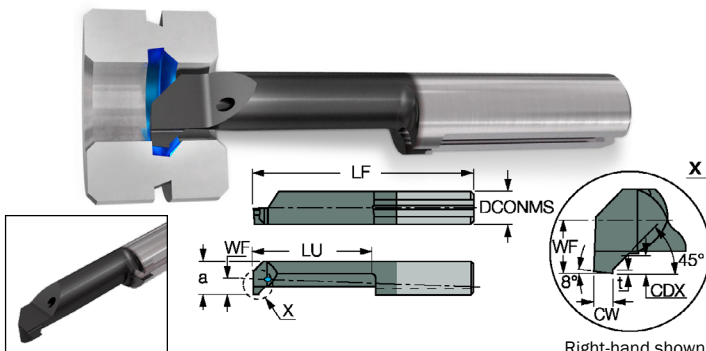
PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF	CW
PICJ-RG05D20R00-5	0.157	0.079	0.016	0.1575	0	0.748	0.071	-0.008	0.020
PICJ-RG05D20R00-10	0.157	0.079	0.016	0.3543	0	0.945	0.071	-0.008	0.020
PICJ-RG07D30R00-5	0.157	0.118	0.024	0.1575	0	0.748	0.106	0.028	0.028
PICJ-RG07D30R00-10	0.157	0.118	0.024	0.3543	0	0.945	0.106	0.028	0.028
PICJ-RG10D40R00-5	0.157	0.118	0.024	0.5906	0	1.181	0.106	0.028	0.028
PICJ-RG10D40R00-10	0.157	0.157	0.031	0.3543	0	0.945	0.138	0.059	0.039
PICJ-RG10D40R00-16	0.157	0.157	0.031	0.5906	0	1.181	0.138	0.059	0.039
PICJ-RG10D40R00-20	0.157	0.157	0.031	0.7480	0	1.339	0.138	0.059	0.039
PICJ-RG10D50R00-10	0.197	0.197	0.039	0.3543	0	0.984	0.173	0.075	0.039
PICJ-RG10D50R00-15	0.197	0.197	0.039	0.5512	0	1.181	0.173	0.075	0.039
PICJ-RG10D50R00-20	0.197	0.197	0.039	0.7480	0	1.378	0.173	0.075	0.039
PICJ-RG10D50R00-25	0.197	0.197	0.039	0.9449	0	1.575	0.173	0.075	0.039
PICJ-RG15D50R00-10	0.197	0.197	0.039	1.1417	0	1.772	0.173	0.075	0.039
PICJ-RG15D50R00-15	0.197	0.197	0.039	0.3543	0	0.984	0.173	0.075	0.059
PICJ-RG15D50R00-20	0.197	0.197	0.039	0.5512	0	1.181	0.173	0.075	0.059
PICJ-RG15D50R00-25	0.197	0.197	0.039	0.7480	0	1.378	0.173	0.075	0.059
PICJ-RG20D50R00-10	0.197	0.197	0.039	0.9449	0	1.575	0.173	0.075	0.059
PICJ-RG20D50R00-15	0.197	0.197	0.039	0.3543	0	0.984	0.173	0.075	0.079
PICJ-RG20D50R00-20	0.197	0.197	0.039	0.5512	0	1.181	0.173	0.075	0.079
PICJ-RG20D50R00-25	0.197	0.197	0.039	0.7480	0	1.378	0.173	0.075	0.079
PICJ-RG20D50R00-30	0.197	0.197	0.039	1.1417	0	1.772	0.173	0.075	0.079
PICJ-R/LG10D60R00-10	0.236	0.236	0.071	0.3543	0	0.984	0.209	0.091	0.039
PICJ-RG10D60R00-15	0.236	0.236	0.071	0.5512	0	1.181	0.209	0.091	0.039
PICJ-RG10D60R00-22	0.236	0.236	0.071	0.8268	0	1.457	0.209	0.091	0.039
PICJ-RG10D60R00-25	0.236	0.236	0.071	0.9449	0	1.575	0.209	0.091	0.039
PICJ-RG10D60R00-30	0.236	0.236	0.071	1.1417	0	1.772	0.209	0.091	0.039
PICJ-R/LG15D60R00-10	0.236	0.236	0.071	0.3543	0	0.984	0.209	0.091	0.059
PICJ-RG15D60R00-15	0.236	0.236	0.071	0.5512	0	1.181	0.209	0.091	0.059
PICJ-RG15D60R00-22	0.236	0.236	0.071	0.8268	0	1.457	0.209	0.091	0.059
PICJ-RG15D60R00-25	0.236	0.236	0.071	0.9449	0	1.575	0.209	0.091	0.059
PICJ-RG15D60R00-30	0.236	0.236	0.071	1.1417	0	1.772	0.209	0.091	0.059
PICJ-RG20D60R00-10	0.236	0.236	0.071	0.3543	0	0.984	0.209	0.091	0.079
PICJ-RG20D60R00-15	0.236	0.236	0.071	0.5512	0	1.181	0.209	0.091	0.079
PICJ-RG20D60R00-22	0.236	0.236	0.071	0.8268	0	1.457	0.209	0.091	0.079
PICJ-RG20D60R00-25	0.236	0.236	0.071	0.9449	0	1.575	0.209	0.091	0.079
PICJ-RG20D60R00-30	0.236	0.236	0.071	1.1417	0	1.772	0.209	0.091	0.079
PICJ-RG10D70R00-10	0.276	0.276	0.098	0.3543	0	0.984	0.248	0.110	0.039
PICJ-RG10D70R00-15	0.276	0.276	0.098	0.5512	0	1.181	0.248	0.110	0.039
PICJ-RG10D70R00-22	0.276	0.276	0.098	0.8268	0	1.457	0.248	0.110	0.039
PICJ-RG10D70R00-25	0.276	0.276	0.098	0.9449	0	1.575	0.248	0.110	0.039
PICJ-RG10D70R00-30	0.276	0.276	0.098	1.1417	0	1.772	0.248	0.110	0.039
PICJ-RG15D70R00-10	0.276	0.276	0.098	0.3543	0	0.984	0.248	0.110	0.059
PICJ-RG15D70R00-15	0.276	0.276	0.098	0.5512	0	1.181	0.248	0.110	0.059
PICJ-RG15D70R00-22	0.276	0.276	0.098	0.8268	0	1.457	0.248	0.110	0.059
PICJ-RG15D70R00-25	0.276	0.276	0.098	0.9449	0	1.575	0.248	0.110	0.059
PICJ-RG15D70R00-30	0.276	0.276	0.098	1.1417	0	1.772	0.248	0.110	0.059
PICJ-RG20D70R00-10	0.276	0.276	0.098	0.3543	0	0.984	0.248	0.110	0.079
PICJ-R/LG20D70R00-15	0.276	0.276	0.098	0.5512	0	1.181	0.248	0.110	0.079
PICJ-RG20D70R00-22	0.276	0.276	0.098	0.8268	0	1.457	0.248	0.110	0.079
PICJ-R/LG20D70R00-25	0.276	0.276	0.098	0.9449	0	1.575	0.248	0.110	0.079
PICJ-RG20D70R00-30	0.276	0.276	0.098	1.1417	0	1.772	0.248	0.110	0.079

• All carbide bars with sharp corners

⁽¹⁾ Cutting depth maximum

PICJ R/L 070

Back Chamfering Inserts with Inner Coolant Channel
for Pre-Parting Operations



Right-hand shown

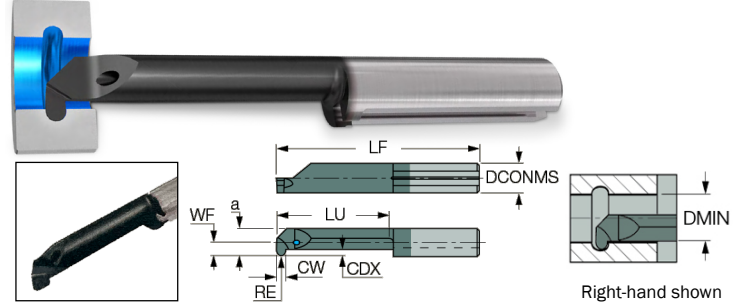
PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	LF	a	WF	CW	t
PICJ-RBCD50-15	0.197	0.197	0.039	0.5512	1.181	0.173	0.075	0.039	0.008
PICJ-RBCD50-20	0.197	0.197	0.039	0.7480	1.378	0.173	0.075	0.039	0.008

• All carbide bars with sharp corners

⁽¹⁾ Cutting depth maximum

PICJ R/L 004-007 (Radius)

Full Radius Inserts with Inner Coolant Channel
for Internal Profiling



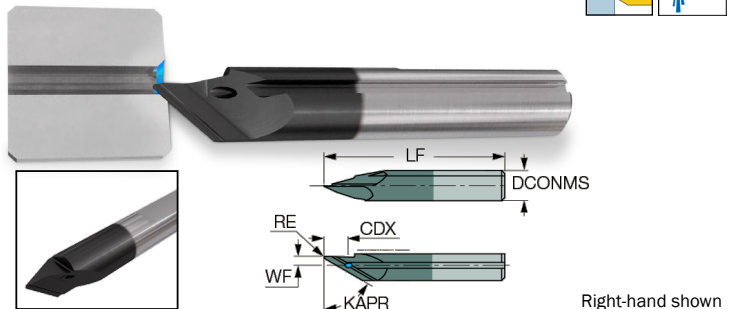
Right-hand shown

PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF	CW
PICJ-RP10D40-16	0.157	0.157	0.031	0.5906	0.0197	1.181	0.138	0.059	0.039
PICJ-RP10D50-20	0.197	0.197	0.039	0.7480	0.0197	1.378	0.173	0.075	0.039
PICJ-RP10D60-25	0.236	0.236	0.071	0.9449	0.0197	1.575	0.209	0.091	0.039
PICJ-RP15D60-25	0.236	0.236	0.071	0.9449	0.0295	1.575	0.209	0.091	0.059
PICJ-RP20D60-25	0.236	0.236	0.071	0.9449	0.0394	1.575	0.209	0.091	0.079
PICJ-RP10D70-30	0.276	0.268	0.098	1.1417	0.0197	1.772	0.248	0.110	0.039
PICJ-RP20D70-30	0.276	0.268	0.098	1.1417	0.0394	1.772	0.248	0.110	0.079

⁽¹⁾ Cutting depth maximum

PICJ R/L 520

Inserts with Inner Coolant Channel for Internal Chamfering



Right-hand shown

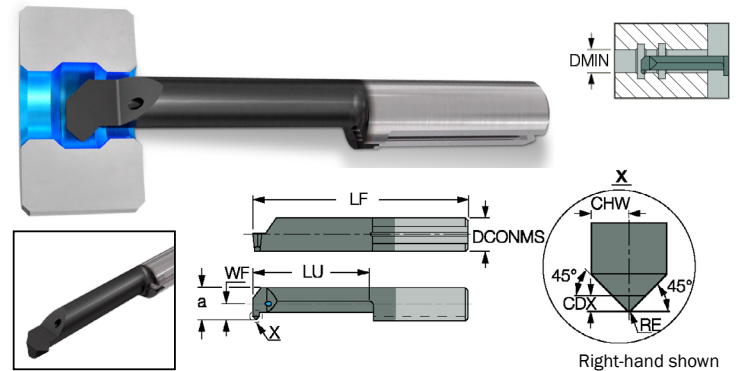
PART #	DCONMS	DMIN	CDX	RE	LF	WF	KAPR ⁽¹⁾
PICJ-RCH45-15	0.197	0.039	0.138	0.0079	1.181	0.059	45.0

• DMIN for internal applications = .787"

⁽¹⁾ Tool cutting edge angle

PICJ R/L 060

Inserts with Inner Coolant Channel for Internal
Turning and 45° Chamfering



Right-hand shown

PART #	DCONMS	DMIN	CDX ⁽¹⁾	LU	RE	LF	a	WF	CHW
PICJ-RT45D50R20-15	0.197	0.197	0.028	0.5512	0.0079	1.181	0.173	0.075	0.039
PICJ-RT45D50R20-20	0.197	0.197	0.028	0.7480	0.0079	1.378	0.173	0.075	0.039
PICJ-RT45D70R20-20	0.276	0.268	0.028	0.7480	0.0079	1.378	0.248	0.110	0.039

⁽¹⁾ Cutting depth maximum

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Valid until September 30th 2025

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Corresponding external holder

at a 70% Additional Discount

Or

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On corresponding internal holder

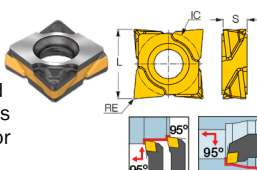


Positive Rake Inserts For Miniature Parts

LOGIQ4TURN POSITIVE DOUBLE SIDED

CXMU-F3P

80° Double-Sided and Double-Positive Inserts with a Positive Rake for Finishing Alloyed Steel

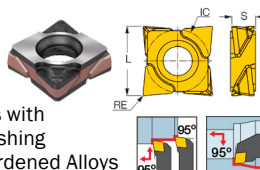


PART #	L	IC	S	RE	CARBIDE GRADES			
					TOUGH	←	→	HARD
CXMU-060208-F3P	0.271	0.250	0.094	0.0315	IC8250			IC807
CXMU-060204-F3P	0.274	0.250	0.094	0.0157	IC1008			IC8150
CXMU-060202-F3P	0.276	0.250	0.094	0.0079	IC1008			IC807

LOGIQ4TURN POSITIVE DOUBLE SIDED

CXMU-F3M

80° Double-Sided and Double-Positive Inserts with a Positive Rake for Finishing Stainless Steel and Hardened Alloys

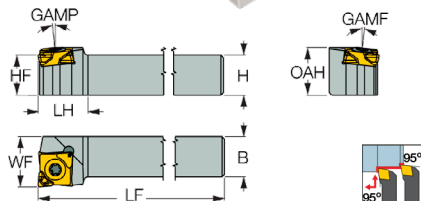


PART #	L	IC	S	RE	CARBIDE GRADES			
					TOUGH	←	→	HARD
CXMU-060208-F3M	0.271	0.250	0.094	0.0315	IC8250			IC807
CXMU-060204-F3M	0.274	0.250	0.094	0.0157	IC1008			IC8150
CXMU-060202-F3M	0.276	0.250	0.094	0.0079	IC1008			IC807

LOGIQ4TURN

SCLXR/L 2X

Screw Lock Carrying CXMU 80° Rhombic Inserts

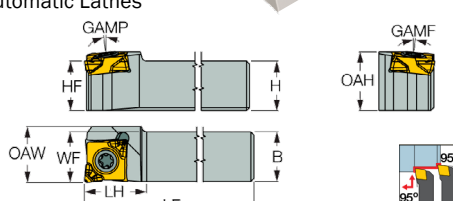


PART #	B	H	HF	LF	LH	WF	OAH	GAMP	GAMF	INSERTS
SCLXR/L-05-2X	0.312	0.312	0.312	2.5	0.394	0.375	0.371	6.0	6.0	CXMU-060204

LOGIQ4TURN

SCLXR/L 2XS

Screw Lock Carrying CXMU 80° Rhombic Inserts
For Use on Swiss-Type Automatic Lathes



PART #	B	H	HF	LF	LH	WF	OAW	OAH	GAMP	GAMF	INSERTS
SCLXR/L-05-2XS	0.312	0.312	0.312	5.0	0.394	0.318	0.371	0.354	6.0	6.0	CXMU-060204

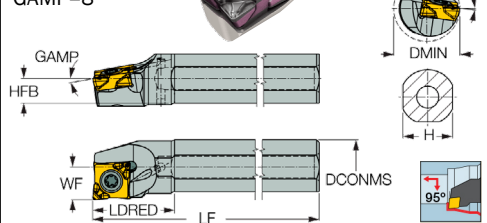
LOGIQ4TURN

A/E-SCLXR-2X

Screw Lock Boring Bars

Use CXMU 80° Rhombic Inserts

GAMP=8°

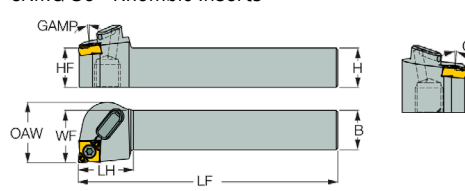


PART #	DCONMS	LF	LDRED	H	HF	WF	GAMP	DMIN	INSERTS
A-SCLXR-5-2X	0.313	4.0	0.469	0.280	0.140	0.217	10.0	0.413	CXMU-060208
E-SCLXR-5-2X	0.313	5.0	0.750	0.280	0.140	0.217	10.0	0.413	CXMU-060208
A-SCLXR-6-2X	0.375	5.0	0.559	0.337	0.169	0.250	8.0	0.480	CXMU-060208
E-SCLXR-6-2X	0.375	6.0	0.847	0.337	0.169	0.250	8.0	0.480	CXMU-060208
A-SCLXR-8-2X	0.500	6.0	0.750	0.460	0.230	0.312	8.0	0.598	CXMU-060208
E-SCLXR-8-2X	0.500	7.0	0.980	0.460	0.230	0.312	8.0	0.598	CXMU-060208

LOGIQ4TURN

SCLXR/L 2X-JHP

Screw Lock Tools with Channels for High-Pressure Coolant Carrying CXMG 80° Rhombic Inserts

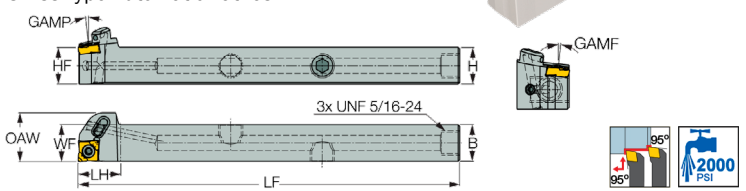


PART #	B	H	HF	LF	LH	WF	OAW	GAMP	GAMF	INSERTS
SCLXR/L-06-2X-JHP	0.375	0.375	0.375	2.5	0.670	0.500	0.730	6.0	6.0	CXMU-060208
SCLXR/L-08-2X-JHP	0.500	0.500	0.500	3.5	0.670	0.625	0.730	6.0	6.0	CXMU-060208

LOGIQ4TURN

SCLXR/L 2XS-JHP-MC

Lever Lock Tools with JETCUT Coolant System Carrying CXMG 80° Rhombic Inserts for Swiss-Type Automatic Lathes



PART #	B	H	HF	LF	LH	WF	GAMP	GAMF	INSERTS
SCLXR/L-06-2XS-JHP-MC	0.375	0.375	0.375	5.0	0.551	0.380	6.0	6.0	CXMU-060208
SCLXR/L-08-2XS-JHP-MC	0.500	0.500	0.500	5.0	0.551	0.630	6.0	6.0	CXMU-060208



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* AVC and CAMFIX holders not included

The image shown is for representational purposes.

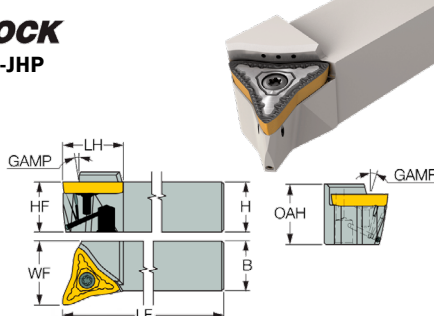


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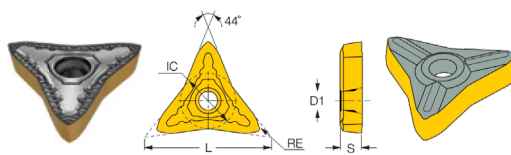
**QUICKTLOCK**

Safety Lock Tools



QUICK^TLOCK INSERTS

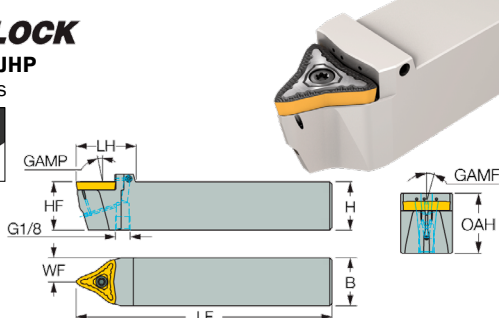
High Feed Inserts with 3 Reinforced Cutting Edges and a Positive Flank



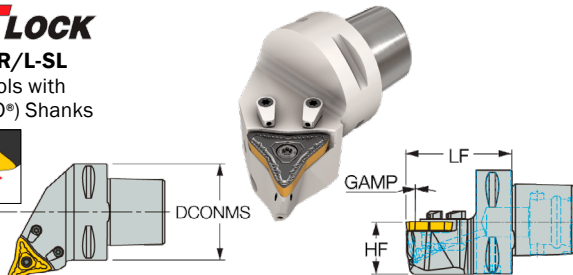
(1) R3M - For stainless steel, R3P - For steel (2) a_p = Depth of cut

QUICKTLOCK

Safety Lock Tools

**QUICKTLOCK**

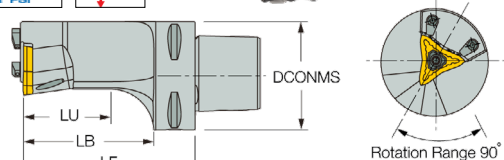
Safety Lock Tools with CAMFIX (CAPTO®) Shanks



A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

QUICKTLOCK

Y-Axis Turning Tools with Safety Lock Clamping Mechanism and CAMFIX (CAPTO®) Shanks



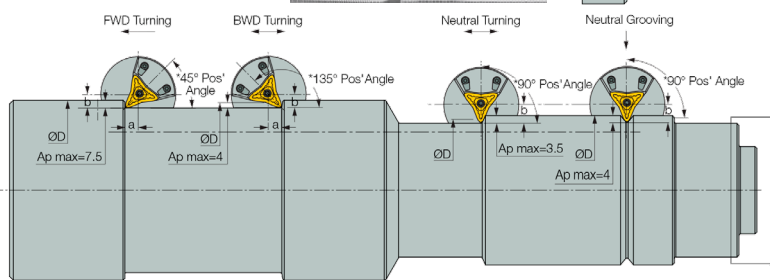
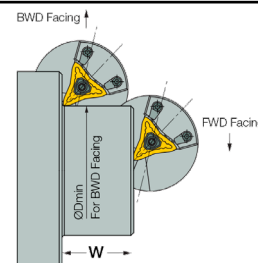
A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

QUICKTLOCK

Y-AXIS TURNING

Positioning Angle Samples

*ANGLE ACCORDING TO KEY ORIENTATION





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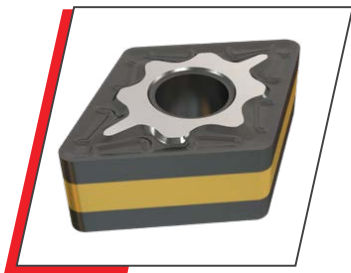
20 XNMG 09.../12 assorted inserts

Receive

Corresponding holder DXJNL/R...-3/4...

at a 70% Additional Discount

* AVC holders are not included



Member IMC Group

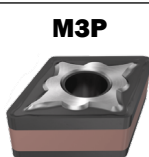
NEOTURN

USING INSERTS WITH 70° APPROACH ANGLE

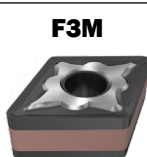
- Providing extra clearance compared to CNMG 80° inserts with additional strong corners compared to DNMG 55° inserts



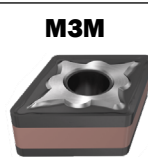
**XNMG
70° CORNER**



M3P
For medium
machining
on steel



F3M
For finishing
applications on
stainless steel

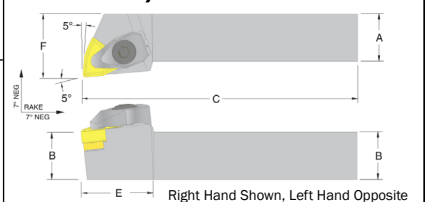


M3M
For medium
machining on
stainless steel



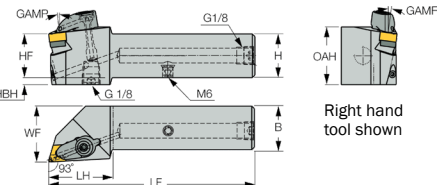
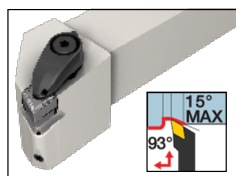
F3P
For finishing
and semi-finishing
on steel

DWLN R/L TOOLHOLDER



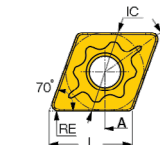
PART #	A	B	C	E	F	INSERT
DWLN R/L 12-4B	0.75	0.75	4.50	1.25	1.00	WNMG-432
DWLN R/L 16-4D	1.00	1.00	6.00	1.25	1.25	WNMG-432

DXJNR/L-X-JHP-MC: Rigid Clamp Tools with Channels for High-Pressure Coolant Carrying 70° Rhombic Inserts



PART #	H	HF	HBH	LH	OAW	OAH	B	OAL	GAMP	GAMF	HAND	USE INSERT
DXJNR-12-3-JHP-MC	0.750	0.750	0.392	1.457	1.000	0.941	0.750	4.212	6.0	6.0	R.H.	XNMG-3
DXJNL-16-3-JHP-MC	1.000	1.000	0.142	1.457	1.250	1.157	1.000	4.803	6.0	6.0	L.H.	XNMG-3
DXJNR-16-3-JHP-MC	1.000	1.000	0.142	1.457	1.250	1.157	1.000	4.803	6.0	6.0	R.H.	XNMG-3
DXJNL-12-4-JHP-MC	0.750	0.750	0.392	1.457	1.000	0.941	0.750	4.212	6.0	6.0	L.H.	XNMG-4
DXJNR-12-4-JHP-MC	0.750	0.750	0.392	1.457	1.000	0.941	0.750	4.212	6.0	6.0	R.H.	XNMG-4
DXJNL-16-4-JHP-MC	1.000	1.000	0.142	1.457	1.250	1.157	1.000	4.803	6.0	6.0	L.H.	XNMG-4
DXJNR-16-4-JHP-MC	1.000	1.000	0.142	1.457	1.250	1.157	1.000	4.803	6.0	6.0	R.H.	XNMG-4
DXJNL-20-4-JHP-MC	1.250	1.250	0.000	1.457	1.500	1.407	1.250	5.394	6.0	6.0	L.H.	XNMG-4
DXJNR-20-4-JHP-MC	1.250	1.250	0.000	1.457	1.500	1.407	1.250	5.394	6.0	6.0	R.H.	XNMG-4

INSERTS

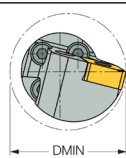
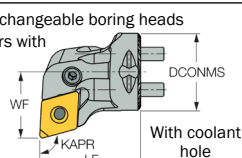


PART #	L	IC	S	RE
XNMG-331-*	0.399	0.375	0.187	0.0157
XNMG-332-*	0.399	0.375	0.187	0.0315
XNMG-431-*	0.532	0.500	0.187	0.0157
XNMG-432-*	0.532	0.500	0.187	0.0315

*Specify: M3P, F3M, M3M or F3P (See Above)

AVC-PXJNR/L: Interchangeable boring heads

- Use with Iscar's holders with serrated connection



PART #	HAND	WF	DCONMS	DMIN	LF	USE INSERT
AVC-D32-PXJNL-09	L.H.	0.866	1.260	1.575	1.260	XNMG-3
AVC-D32-PXJNR-09	R.H.	0.866	1.260	1.575	1.260	XNMG-3

ISCAR THREAD

Valid until September 30th 2025

High Performance Solid Carbide Thread-Mills The New Alternative to Tapping Tools

Threading large diameters, short chips for easy machining of thin walls. Coolant-through the tool, ideal for blind-hole applications and improved chip evacuation.

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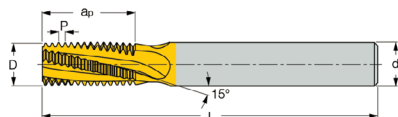
Receive 25%
Additional Discount

* All profiles



MTEC-UN

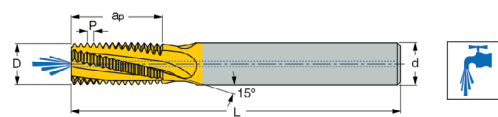
Solid Carbide Thread Mills for Internal UN Thread Profile



PART #	TPI	FOR SIZES	DCONMS	DC	# FL	APMX	OAL
MTEC-0250C02-40UN	40.0	#5	0.250	0.098	3	0.240	2.500
MTEC-0250C02-32UN	32.0	#8, #10, #12	0.250	0.126	3	0.270	2.500
MTEC-0250C04-28UN	28.0	1/4, 7/16-1/2	0.250	0.160	3	0.400	2.500
MTEC-0250C05-28UN	28.0	7/16-1/2	0.250	0.236	3	0.570	2.500
MTEC-0250C06-24UN	24.0	5/16-3/8	0.250	0.200	3	0.600	2.500
MTEC-0312C08-24UN	24.0	9/16-5/8	0.312	0.280	3	0.800	2.500
MTEC-0250C05-20UN	20.0	1/4	0.250	0.180	3	0.500	2.500
MTEC-0312C08-20UN	20.0	7/16-1/2	0.312	0.280	3	0.800	2.500
MTEC-0500E11-20UN	20.0	3/4-1	0.500	0.470	5	1.100	3.000
MTEC-0250C06-18UN	18.0	5/16	0.250	0.200	3	0.600	2.500
MTEC-0375D10-18UN	18.0	9/16-5/8, 1 1/8, 1 5/8	0.375	0.375	4	1.000	3.000
MTEC-0250C07-16UN	16.0	3/8	0.250	0.240	3	0.700	2.500
MTEC-0500D12-16UN	16.0	3/4	0.500	0.470	4	1.200	3.000
MTEC-0312C08-14UN	14.0	7/16	0.312	0.280	3	0.800	2.500
MTEC-0625E15-14UN	14.0	7/8	0.625	0.590	5	1.500	4.000
MTEC-0312C09-13UN	13.0	1/2	0.312	0.310	3	0.900	2.500
MTEC-0375C10-12UN	12.0	9/16	0.375	0.375	3	1.000	3.000
MTEC-0625E16-12UN	12.0	1 1/2	0.625	0.630	5	1.600	4.000
MTEC-0375C11-11UN	11.0	5/8	0.375	0.372	3	1.100	3.000
MTEC-0500C14-10UN	10.0	3/4	0.500	0.470	3	1.400	3.000
MTEC-0625C15-9UN	9.0	7/8	0.625	0.590	3	1.500	4.000
MTEC-0625C17-8UN	8.0	1.0	0.625	0.625	3	1.700	4.000
MTEC-0750D17-7UN	7.0	1 1/8, 1 1/4	0.750	0.750	4	1.780	4.000

MTECB-UN

Solid Carbide Thread Mills with Coolant Holes for Internal UN Thread Profile



PART #	TPI	FOR SIZES	DCONMS	DC	# FL	APMX	OAL
MTECB-0250C05-32UN	32.0	5/16	0.250	0.250	3	0.580	2.500
MTECB-0312D07-32UN	32.0	3/8	0.312	0.312	4	0.740	2.500
MTECB-0250C04-28UN	28.0	1/4	0.250	0.197	3	0.440	2.500
MTECB-0250C05-28UN	28.0	7/16, 1/2	0.250	0.250	3	0.560	2.500
MTECB-0312C05-24UN	24.0	5/16	0.312	0.260	3	0.560	2.500
MTECB-0312D08-24UN	24.0	3/8-5/8	0.312	0.312	4	0.810	2.500
MTECB-0250C04-20UN	20.0	1/4	0.250	0.185	3	0.480	2.500
MTECB-0312C08-20UN	20.0	7/16	0.312	0.312	3	0.830	2.500
MTECB-0375D08-20UN	20.0	1/2	0.375	0.375	4	0.880	3.000
MTECB-0500E11-20UN	20.0	3/4-1	0.500	0.500	5	1.070	3.500
MTECB-0250C05-18UN	18.0	5/16	0.250	0.220	3	0.580	2.500
MTECB-0500D10-18UN	18.0	9/16-5/8, 1 1/8-1 5/8	0.500	0.445	4	1.030	4.000
MTECB-0312C06-16UN	16.0	3/8	0.312	0.264	3	0.660	2.500
MTECB-0500D12-16UN	16.0	3/4	0.500	0.500	4	1.220	3.500
MTECB-0312C08-14UN	14.0	7/16	0.312	0.303	3	0.820	2.500
MTECB-0625E14-14UN	14.0	7/8	0.625	0.625	5	1.460	4.000
MTECB-0375C08-13UN	13.0	1/2	0.375	0.362	3	0.890	3.000
MTECB-0500C10-12UN	12.0	9/16	0.500	0.413	3	1.040	3.500
MTECB-0625E16-12UN	12.0	1 1/2	0.625	0.625	5	1.630	4.000
MTECB-0500C11-11UN	11.0	5/8	0.500	0.449	3	1.140	4.000
MTECB-0625D13-10UN	10.0	3/4	0.625	0.567	4	1.350	4.000
MTECB-0625C15-9UN	9.0	7/8	0.625	0.625	3	1.500	4.000
MTECB-0750D16-8UN	8.0	1	0.750	0.750	4	1.690	4.000
MTECB-0750D17-7UN	7.0	1 1/8, 1 1/4	0.750	0.750	4	1.780	4.000



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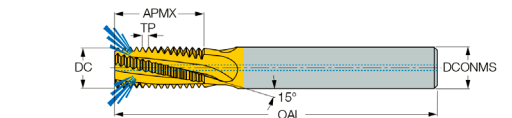
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SOLID THREAD SOLID CARBIDE THREAD MILLS

MTECZ-UN Thread Mills with Coolant Holes Located in the Flutes for Internal UN Thread Profiles

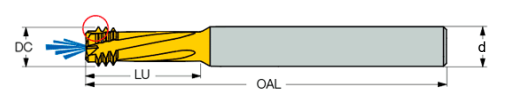


PART #	TPI	FOR SIZES	DCONMS	DC	#FL	APMX	OAL
MTECZ-1010D22-20UN	20.0	1/2	0.394	0.394	4	0.878	2.874
MTECZ-1212E27-20UN	20.0	3/4, 1	0.472	0.472	5	1.075	3.307
MTECZ-1213D26-18UN	18.0	9/16, 5/8, 1 1/8, 1 1/2	0.472	0.445	4	1.028	3.307
MTECZ-08067C16-16UN	16.0	3/8	0.315	0.264	3	0.657	2.520
MTECZ-1212D31-16UN	16.0	3/4	0.472	0.472	4	1.220	3.307
MTECZ-1214C28-11UN	11.0	5/8	0.472	0.449	3	1.138	3.307
MTECZ-16144D34-10UN	10.0	3/4	0.630	0.567	4	1.350	3.976

MTECD-UN

Small Diameter, Short, Left-Hand, Internal UN Profile Endmills for Drilling, Threading and Chamfering

- Coolant holes only in 28-16 TPI tools



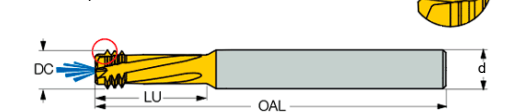
PART #	TPI	SIZE	d	DC	#FL	LU	OAL	Ch	L1
MTECD-06033C12-36UN	36.0	#8	0.236	0.130	3	0.472	2.283	0.2	0.03
MTECD-06033C12-32UN	32.0	#8	0.236	0.126	3	0.484	2.283	0.3	0.03
MTECD-06038C14-32UN	32.0	#10	0.236	0.150	3	0.551	2.283	0.3	0.03
MTECD-0805C14-28UN	28.0	1/4-3/8	0.315	0.197	3	0.571	2.520	0.4	0.04
MTECD-08065D17-24UN	24.0	5/16-1/2	0.315	0.256	4	0.669	2.520	0.5	0.04
MTECD-08048C14-20UN	20.0	1/4-3/8	0.315	0.189	3	0.551	2.520	0.4	0.05
MTECD-0806D17-18UN	18.0	5/16-7/16	0.315	0.236	4	0.669	2.520	0.5	0.06
MTECD-08067C22-16UN	16.0	3/8-1/2	0.315	0.264	3	0.866	2.520	0.5	0.06
MTECDH-08067C22-16UN	16.0	3/8-1/2	0.315	0.264	3	0.866	2.520	0.5	0.06

(1) TPI = THREADS PER INCH

MTECD-ISO

Small Diameter, Short, Left-Hand Cut, Solid Carbide Endmills for Internal ISO Profile Drilling, Threading and Chamfering

- Coolant holes only in 1.0-2.0 pitch tools



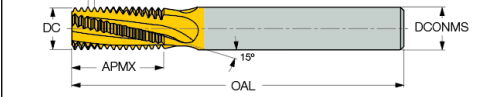
PART #	TPI	SIZE	d	DC	#FL	LU	OAL	CHW	LU 2
MTECD-06032C11-0.7ISO	0.70	M4	0.236	0.124	3	0.457	2.283	0.008	0.03
MTECDH06032C11-0.7ISO	0.70	M4	0.236	0.124	3	0.457	2.283	0.008	0.03
MTECD-0804C14-0.8ISO	0.80	M5	0.236	0.157	3	0.567	2.283	0.012	0.03
MTECD-08047C14-1.0ISO	1.00	M6-M9	0.315	0.185	3	0.551	2.520	0.016	0.04
MTECD-08061D18-1.25ISO	1.25	M8-M12	0.315	0.240	4	0.709	2.520	0.020	0.05
MTECD-0807D23-1.5ISO	1.50	M10-M15	0.315	0.307	4	0.906	2.520	0.024	0.06
MTECD-1009D28-1.75ISO	1.75	M12	0.394	0.354	4	1.024	2.874	0.024	0.07
MTECD-1211D35-2.0ISO	2.00	M16-M23	0.472	0.465	4	1.378	3.307	0.024	0.08

(1) TPI = PITCH IN MM



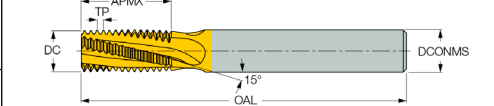
- FREE LOCAL DELIVERY**
- LARGE INVENTORY**
- ON-SITE INVENTORY MANAGEMENT**
- TECHNICAL SUPPORT**

MTEC E-UN Thread Mills with UN Form for External Threading



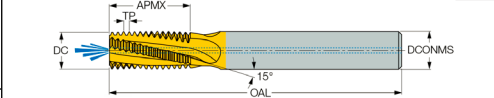
PART #	TPI	DCONMS	DC	#FL	APMX	OAL
MTEC-1010D16-24UN	24.0	0.394	0.394	4	0.646	2.874
MTEC-1212E21-20UN	20.0	0.472	0.472	5	0.827	3.307
MTEC-1212D20-12UN	12.0	0.472	0.472	4	0.791	3.307

MTEC-ISO Solid Carbide Internal Thread Mills for ISO Thread Profile



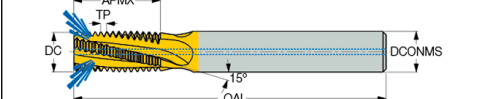
PART #	Pitch mm	M Coarse	M Fine	DCONMS	DC	#FL	APMX	OAL
MTEC-0250C02-0.5ISO	0.500	M3	≥16	0.250	0.087	3	0.210	2.500
MTEC-0250C04-0.8ISO	0.800	M5	≥24	0.250	0.142	3	0.360	2.500
MTEC-0250C04-1.0ISO	1.000	M6	≥28	0.250	0.160	3	0.400	2.500
MTEC-0312D07-1.0ISO	1.000	-	≥39	0.312	0.310	4	0.700	2.500
MTEC-0250C07-1.25ISO	1.250	M8	≥39	0.250	0.197	3	0.760	2.500
MTEC-0375D09-1.5ISO	1.500	MF14	≥55	0.375	0.370	4	0.900	3.000
MTEC-0625F13-1.5ISO	1.500	MF20	≥79	0.625	0.620	6	10.300	4.000
MTEC-0312C07-1.5ISO	1.500	M10	≥47	0.312	0.280	3	0.700	2.500
MTEC-0312C09-1.5ISO	1.500	M10	≥47	0.312	0.276	3	0.980	2.500
MTEC-0750F16-2.0ISO	2.000	MF26	≥102	0.750	0.750	6	10.600	4.000
MTEC-0375C11-2.0ISO	2.000	M16	≥67	0.375	0.370	3	10.100	3.000
MTEC-0375C15-2.0ISO	2.000	M16	≥67	0.375	0.375	3	10.540	4.000
MTEC-0625D13-2.5ISO	2.500	M20	≥87	0.625	0.620	4	10.300	4.000
MTEC-0625C16-3.0ISO	3.000	M24	≥98	0.625	0.620	3	10.600	4.000
MTEC-0625C23-3.0ISO	3.000	M24	≥98	0.625	0.625	3	20.310	4.500

MTECB-ISO Thread Mills with Coolant Holes for ISO Thread Profile



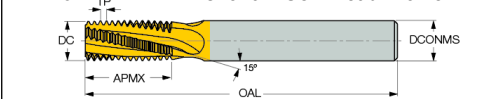
PART #	Pitch mm	M Coarse	M Fine	DCONMS	DC	#FL	APMX	OAL
MTECB-0250C06-1.0ISO	1.000	M6	≥28	0.250	0.181	3	0.600	2.500
MTECB-0312D06-1.0ISO	1.000	M10	≥47	0.310	0.310	4	0.650	2.500
MTECB-0250C07-1.25ISO	1.250	M8	≥39	0.250	0.250	3	0.760	2.500
MTECB-0312C09-1.5ISO	1.500	M10	≥47	0.310	0.307	3	0.980	2.500
MTECB-0375C11-1.75ISO	1.750	M12	≥47	0.375	0.352	3	1.102	3.000
MTECB-0375C11-2.0ISO	2.000	M16	≥47	0.375	0.370	3	1.023	3.000
MTECB-0750F16-2.0ISO	2.000	M26	≥94	0.750	0.747	6	1.610	4.000

MTECZ-ISO Solid Carbide Internal Thread Mills with Coolant Holes



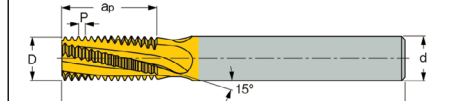
PART #	Pitch mm	M Coarse	M Fine	DCONMS	DC	#FL	APMX	OAL
MTECZ-06048C10-1.0ISO	1.000	M6	≥27	0.236	0.189	3	0.413	2.283
MTECZ-0606C12-1.0ISO	1.000	-	≥9	0.236	0.236	3	0.492	2.283
MTECZ-0808D16-1.0ISO	1.000	-	≥10	0.315	0.315	4	0.650	2.520
MTECZ-0606C14-1.25ISO	1.250	M8	≥10	0.236	0.236	3	0.567	2.283
MTECZ-0606C19-1.25ISO	1.250	M8	≥10	0.236	0.236	3	0.764	2.283
MTECZ-08078C17-1.5ISO	1.500	M10	≥12	0.315	0.307	3	0.669	2.520
MTECZ-1010D21-1.5ISO	1.500	-	≥14	0.394	0.394	4	0.858	2.874
MTECZ-1212D26-1.5ISO	1.500	-	≥16	0.472	0.472	4	1.035	3.307
MTECZ-1616E33-1.5ISO	1.500	-	≥20	0.630	0.630	5	1.331	3.976
MTECZ-1009C20-1.75ISO	1.750	M12	≥12	0.394	0.354	3	0.791	2.874
MTECZ-1009C28-1.75ISO	1.750	M12	≥12	0.394	0.354	3	1.138	2.874
MTECZ-1010C27-2.0ISO	2.000	M14	≥15	0.394	0.394	3	1.063	2.874
MTECZ-1218D27-2.0ISO	2.000	M16	≥17	0.472	0.465	4	1.063	3.307

MTEC E-ISO Solid Carbide External Thread Mills for an ISO Thread Profile



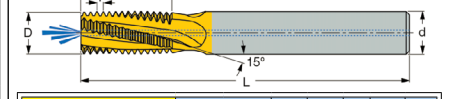
PART #	Pitch mm	DCONMS	DC	#FL	APMX	OAL
MTEC-E-1010D16-1.0ISO	1.000	0.394	0.394	4	0.650	2.874
MTEC-E-1212E20-1.0ISO	1.000	0.472	0.472	5	0.807	3.307
MTEC-E-1010D16-1.25ISO	1.250	0.394	0.394	4	0.665	2.874
MTEC-E-1010D15-1.5ISO	1.500	0.394	0.394	4	0.622	2.874
MTEC-E-1212D20-1.5ISO	1.500	0.472	0.472	4	0.799	3.307
MTEC-E-1212D20-1.75ISO	1.750	0.472	0.472	4	0.791	3.307
MTEC-E-1010C17-2.0ISO	2.000	0.394	0.394	3	0.669	2.874
MTEC-E-1212D21-2.0ISO	2.000	0.472	0.472	4	0.827	3.307

MTEC-NPT Solid Carbide Thread Mills for External or Internal NPT Thread Profile



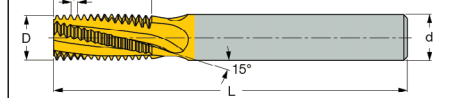
PART #	NPT THREAD SIZE	TPI	d	D	#FL	ap	L
MTEC-0250C03-27NPT	1/16	27	0.250	0.230	3	0.39	2.5
MTEC-0250C04-27NPT	1/8	27	0.250	0.250	3	0.40	2.5
MTEC-0312C06-18NPT	1/4, 3/8	18	0.312	0.312	3	0.60	2.5
MTEC-0500D08-14NPT	1/2, 3/4	14	0.500	0.500	4	0.80	3.5
MTEC-0625D11-11.5NPT	1 1/2	11	0.625	0.620	4	1.10	4.0
MTEC-0750D16-8NPT	2 1/2	8	0.750	0.750	4	1.60	4.0

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



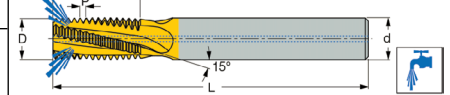
PART #	NPT THREAD SIZE	TPI	d	D	#FL	ap	L
MTECB-0312C04-27NPT	1/8	27.0	0.313	0.299	3	0.43	2.5
MTECB-0375D06-18NPT	1/4, 3/8	18.0	0.375	0.375	4	0.64	3.0
MTECB-0625D08-14NPT	1/2, 3/4	14.0	0.625	0.610	4	0.89	4.0
MTECB-0750D11-11.5NPT	1 1/2	11.5	0.750	0.750	4	1.17	4.0

MTEC-NPTF Solid Carbide Thread Mills for External or Internal NPTF Thread Profile



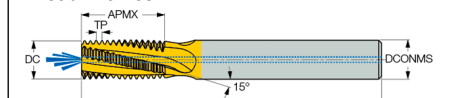
PART #	NPTF THREAD SIZE	TPI	d	D	#FL	ap	L
MTEC-0250C04-27NPTF	1/8	27.0	0.250	0.250	3	0.39	2.5
MTEC-0312C06-18NPTF	1/4, 3/8	18.0	0.312	0.312	3	0.58	2.5
MTEC-0500D08-14NPTF	1/2, 3/4	14.0	0.500	0.500	4	0.82	3.5
MTEC-0625D11-11.5NPTF	1 1/2	11.5	0.625	0.625	4	1.09	4.0

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



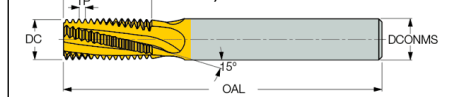
PART #	NPTF THREAD SIZE	TPI	d	D	#FL	ap	L
MTECZ-08076C10-27NPTF	27.0	1/8	8	7.6	3	10.8	64
MTECZ-1010D16-18NPTF	18.0	1/4-3/8	10	10.0	4	16.2	73

MTECB-NPSF Solid Carbide Internal Thread Mills for Internal or External BSF/BSP Thread Profiles



PART #	SIZE	TPI	DCONMS	DC	#FL	APMX	LF
MTECB-0312C04-27NPSF	1/8	27.0	0.312	0.299	3	0.430	2.50
MTECB-0625D08-14NPSF	1/2, 3/4	14.0	0.625	0.610	4	0.890	4.00

MTEC-W Solid Carbide Thread Mills for Internal or External BSF/BSP Thread Profiles



PART #	SIZE	TPI	DIMENSIONS IN MM.				
			DCONMS	DC	APMX	OAL	#FL
MTEC-0606C9-28W	G1/8	28.0	6.00	6.00	9.50	58.00	3
MTEC-0808C14-19W	G1/4, G3/8	19.0	8.00	8.00	14.00	64.00	3
MTEC-1212D19-14W	G1/2, G7/8	14.0	12.00	12.00	19.00	84.00	4
MTEC-1212D26-14W	G1/2, G7/8	14.0	12.00	12.00	26.30	84.00	4
MTEC-1212C24-11W	G1, -G1, 1/2	11.0	12.00	12.00	24.20	84.00	3
MTEC-1616D38-11W	G1, G3	11.0	16.00	16.00	38.10	101.00	4

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sales@basstool.com

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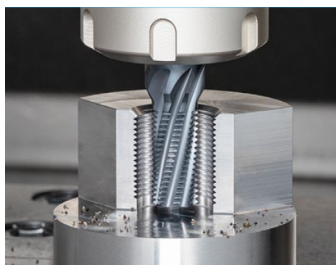


SOLID THREAD SOLID CARBIDE THREAD MILLS - CONTINUED

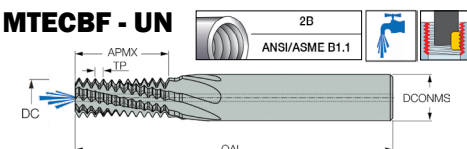
SOLID THREAD

MTECBF - HIGH PERFORMANCE

- Threading Large Diameters
- Short Chips for Easy Machining of Thin Walls
- Coolant Thru the Tool
- Ideal for Blind Holes & Chip Evacuation



MTECBF - UN

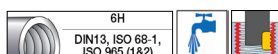


- For Internal UN Thread Profile
- Cylindrical Shank

PART #	TPI	UNC	UNF	UNEF	DC	#FL	APMX	OAL	
MTECBF-1616F26-12UN	12	5/8	1/1.1/2	-	0.630	0.457	6	1.039	4.134
MTECBF-1209F24-14UN	14	1/2	-	0.472	0.386	6	0.957	3.307	
MTECBF-1008F24-14UN	14	7/16	-	0.394	0.335	6	0.819	2.874	
MTECBF-1007F16-16UN	16	3/8	-	0.394	0.291	6	0.654	2.874	
MTECBF-1612H26-18UN	18	-	9/16, 5/8	11/16	0.630	0.492	8	1.024	4.134
MTECBF-0806F14-18UN	18	5/16	-	0.315	0.236	6	0.579	2.520	
MTECBF-1009H21-20UN	20	-	7/16	-	0.394	0.362	8	0.823	2.874
MTECBF-1209H21-20UN	20	-	7/16	-	0.472	0.362	8	0.823	3.307
MTECBF-0604E12-20UN	20	1/4	-	0.236	0.189	5	0.472	2.283	
MTECBF-0806G14-24UN	24	-	5/16	-	0.315	0.260	7	0.559	2.520
MTECBF-1006G14-24UN	24	-	5/16	-	0.394	0.260	7	0.559	2.874

• Internal & External tolerance: ISO 228-1 - Medium class

MTECBF - ISO METRIC

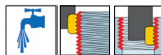


- For Internal ISO Thread Profiles
- Cylindrical Shank

PART #	PITCH (MM)	M COARSE	M FINE	DCONMS	DC	# FL	APMX	OAL
MTECBF0604F10-1.0ISO	1.00	M6	=>7	0.236	0.189	6	0.402	2.283
MTECBF0806G14-1.25ISO	1.25	M8	=>10	0.315	0.252	7	0.551	2.520
MTECBF-1008G16-1.5ISO	1.50	M10	=>12	0.394	0.315	7	0.657	2.874
MTECBF1209G20-1.75ISO	1.75	M12	=>12	0.472	0.374	7	0.787	3.307

• Internal & External tolerance: ISO 228-1 - Medium class

MTECBF - W INTERNAL/EXTERNAL



- For BSP/BSF Thread Profiles
- Cylindrical Shank

PART #	TPI	TDZ	DCONMS	DC	#FL	APMX	OAL
MTECBF-1616H38-11W	11	7/16	0.630	0.630	8	0.630	4.134
MTECBF-1614H26-14W	14	1/2-7/8	0.630	0.551	8	1.000	4.134
MTECBF-1010G16-19W	19	1/4-3/8	0.394	0.394	7	0.394	2.874
MTECBF-0807H14-28W	28	1/8	0.315	0.307	8	0.535	2.520

• Internal & External tolerance: B.S.84 - Medium class

MTECI-ISO Small Diameter Single Point Internal ISO Profile Solid Carbide Thread Mills



PART #	PITCH (MM)	FOR SIZE		
MTECI-03009C4-0.25ISO	0.250	M1.2X0.25, M1.4X0.25, M1.6X0.25		
MTECI-03007C3-0.25ISO	0.250	M1X0.25		
MTECI-03011C5-0.3ISO	0.300	M1.4X0.3		
MTECI-03012C6-0.35ISO	0.350	M1.6X0.35, M2X0.35, M2.2X0.35		
MTECI-03016C7-0.4ISO	0.400	M2X0.4		
MTECI-03024C10-0.5ISO	0.500	M3X0.5, M3.5X0.5, M4X0.5		
d	DC	#FL	LU	OAL
0.118	0.035	3	0.169	1.535
0.118	0.028	3	0.142	1.535
0.118	0.041	3	0.197	1.535
0.118	0.047	3	0.224	1.535
0.118	0.061	3	0.280	1.535
0.118	0.093	3	0.417	1.535

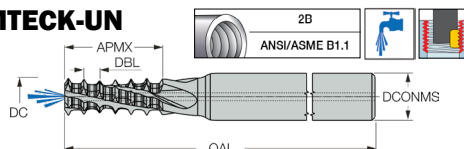
SOLID THREAD - INTERRUPTED

MTECK (LEAD x2) & MTECM (LEAD x3)

- Short Chips for Easy Machining Thin Walls
- Coolant Thru Holes
- Interrupted Tooth Design
- Ideal for Blind Holes & Chip Evacuation



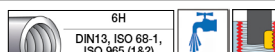
MTECK-UN



- For Internal UN Thread Profile
- Lead x2

PART #											
	TPI	UNC	DBL	APMX	LU	OAL	DCONMS	DC	#FL		
MTECK-1298D25-13UN	13	1/2	-	0.1539	1.0354	1.3583	3.307	0.472	0.386	4	
MTECK-08074D19-16UN	16	3/8	-	0.1250	0.7795	0.9646	2.520	0.315	0.291	4	
MTECK-12011E29-18UN	18	-	9/16	0.1111	1.1969	1.3740	3.307	0.472	0.433	5	
MTECK-0250D67-18UN	18	5/16	-	0.1111	0.6929	0.6929	2.520	0.250	0.240	4	
MTECK-08061D17-18UN	18	5/16	-	0.1111	0.6929	0.9252	2.520	0.315	0.240	4	
MTECK-08061D22-18UN	18	5/16	-	0.1111	0.9134	1.2165	2.992	0.315	0.240	4	
MTECK-0250C50-20UN	20	1/4	-	0.1000	0.5236	0.7677	2.520	0.250	0.185	3	
MTECK-0603C10-24UN	24	#10	-	0.0833	0.4331	0.6102	2.283	0.236	0.138	3	
MTECK-0250D50-28UN	28	-	1/4	0.0714	0.5157	0.7401	2.520	0.250	0.197	4	
MTECK-0250C34-32UN	32	#8	-	0.0625	0.3583	0.5906	2.520	0.250	0.122	3	

MTECK - ISO METRIC

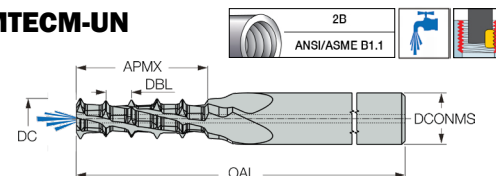


- For Internal ISO Thread Profiles
- Lead x2

PART #	PITCH (MM)	M COARSE	M FINE	DBL	APMX	LU	OAL	# FL	DCONMS	DC
MTECK-0603D8-0.5ISO	0.500	-	M4	0.0394	0.3228	0.6535	2.283	4	0.236	0.12
MTECK-0603C19-0.7ISO	0.700	M4	-	0.0551	0.3425	0.5512	2.283	3	0.236	0.12
MTECK-0603C10-0.8ISO	0.800	M5	-	0.0630	0.4252	0.6299	2.283	3	0.236	0.15
MTECK-0604D712-1.0ISO	1.000	M6	-	0.0787	0.4921	0.6890	2.283	4	0.236	0.18
MTECK-0806D16-1.25ISO	1.250	M8	-	0.0984	0.6654	0.8858	2.520	4	0.315	0.24
MTECK-0807D21-1.5ISO	1.500	M11	-	0.1181	0.8543	-	2.520	4	0.315	0.31
MTECK-12011E28-1.5ISO	1.500	-	M16	0.1181	1.1535	-	3.701	5	0.472	0.46
MTECK-160125F33-1.5ISO	1.500	-	M16	0.1181	1.3268	1.5748	3.661	6	0.630	0.49
MTECK1009H24-1.5ISO	1.500	-	M13	0.1181	0.9764	0.9488	2.874	5	0.394	0.38
MTECK-1009G20-1.75ISO	1.750	M12	-	0.1378	0.9961	1.2008	2.874	4	0.394	0.37
MTECK-1211D28-2.0ISO	2.000	M16	-	0.1575	1.1378	1.4370	3.307	4	0.472	0.44

- For Internal ISO Thread Profiles
- Lead x3

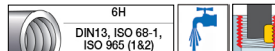
MTECM-UN



- For Internal UN Thread Profiles
- Lead x3

PART #	TPI	UNC	UNF	UNEF	DBL	APMX	OAL	DCONMS	DC	#FL
MTECM-0312D09-16UN-908	16	0	3/8	-	0.1874	0.9646	2.500	0.313	0.291	4
MTECM-0250C65-20UN-908	20	0	1/4	-	0.1500	0.6732	2.500	0.250	0.185	3
MTECM-06047C16-20UN-908	20	0	1/4	-	0.1500	0.6732	2.283	0.236	0.185	3
MTECM-0250C50-24UN-908	24	0	#10	-	0.1248	0.5197	2.500	0.250	0.138	3
MTECM-0250C28-32UN-908	32	0	#8	-	0.0937	0.2953	2.500	0.250	0.122	3

MTECM-ISO



- For Internal ISO Thread Profiles
- Lead x3

PART #	TPI	M	COARSE	FINE	DBL	APMX	OAL	DCONMS	DC	#
MTECM-0603C11-0.7ISO-908	0.700	M4	-	0.0827	0.4252	2.283	0.236	0.122	3	
MTECM-0603C12-0.8ISO-908	0.800	M5	-	0.0945	0.5197	2.283	0.236	0.154	3	
MTECM-06047D14-1.0ISO-908	1.000	M6	-	0.1181	0.6063	2.283	0.236	0.185	4	
MTECM-0807E21-1.0ISO-908	1.000	-	M10	0.1181	0.8425	2.520	0.315	0.311	5	
MTECM-1009D32-1.75ISO-908	1.750	M12	-	0.2067	1.2716	1.389	3.394	0.378	4	
MTECM-16131E32-2.0ISO-908	2.000	M16	-	0.2362	1.2953	3.661	0.630	0.516	5	
MTECM-16131E42-2.0ISO-908	2.000	M16	-	0.2362	1.6890	4.134	0.630	0.516	5	

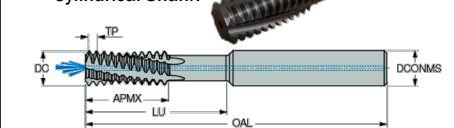
SOLID THREAD

MTECQ - UN

Solid Carbide Endmills with Internal Coolant Holes and a Reduced Diameter Neck. Used for Deep Internal, Large Pitch UN Profile Threading (up to 3D), on Medium and Large Thread Diameters.



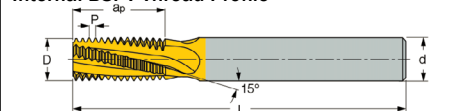
- Cylindrical Shank



PART #	TPI	TDZ	DCONMS	DC	#FL	APMX	LU	OAL
MTECQ-1010D30-20UN	20	>=0.472	0.394	0.394	4	0.701	1.201	2.874
MTECQ-1616F43-20UN	20	>=0.708	0.630	0.630	6	1.000	1.701	4.134
MTECQ-1616E42-16UN	16	>=0.748	0.630	0.630	5	1.000	1.689	4.134
MTECQ-1212D42-12UN	12	>=0.629	0.472	0.472	4	1.000	1.665	3.307

MTEC-BSPT

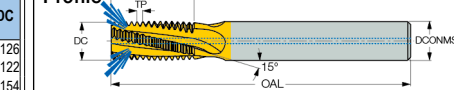
Solid Carbide Thread Mills for External or Internal BSPT Thread Profile



PART #	BSPT THREAD TPI	SIZE	d	D	#FL	ap	L
MTEC-0606C9-28BSPT	28	RC1/8	6	6	3	9.5	58
MTEC-0808C14-19BSPT	19	RC1/4, RC3/8	8	8	3	14.0	64
MTEC-1212D19-14BSPT	14	RC1/2, RC7/8	12	12	4	19.1	84
MTEC-1616D28-11BSPT	11	RC1, RC2	16	16	4	28.9	105

MTECZ-BSPT

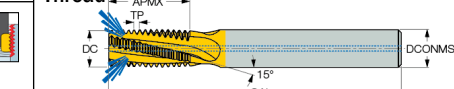
Solid Carbide Thread Mills with Coolant Holes for an Internal or External BSPT Thread Profile



PART #	TPI	SIZE	DCONMS	DC	APMX	OAL	#FL
MTECZ-08078C14-28BSPT	28	RC1/8	0.315	0.307	0.555	2.520	3
MTECZ-1010D16-19BSPT	19	RC1/4-3/8	0.394	0.394	0.657	2.874	4

MTECZ-BSF/BSB

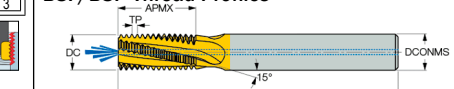
Solid Carbide Thread Mills with Coolant Holes for an Internal or External BSF/BSB Thread



PART #	SIZE	TPI	DCONMS	DC	APMX	OAL	#FL
MTECZ-08078C14-28W	G1/8	28.0	0.315	0.307	0.555	2.520	3
MTECZ-1010D16-19W	G1/4-3/8	19.0	0.394	0.394	0.657	2.874	4
MTECZ-1616E26-14W	G1/2-7/8	14.0	0.630	0.630	1.035	3.976	5
MTECZ-1616D38-11W	G≥1	11.0	0.630	0.630	1.500	3.976	4

MTECB-W

Solid Carbide Internal or External Thread Mills with Coolant Hole for BSF/BSB Thread Profiles



PART #	SIZE	TPI	DCONMS	DC	APMX	OAL	#FL
MTECB-08078C14-28W	G1/8	28.0	8.00	7.80	14.10	64.00	3
MTECB-1010D16-19W	G1/4-3/8	19.0	10.00	10.00	16.70	73.00	4
MTECB-1616E26-14W	G1/2-7/8	14.0	16.00	16.00	26.30	105.00	5
MTECB-1616D38-11W	G≥1	11.0	16.00	16.00	38.10	105.00	4
MTECB-2020E47-11W	G≥1	11.0	20.00	20.00	47.30	105.00	5

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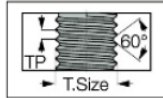
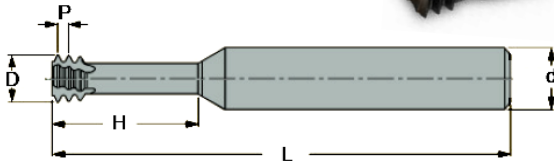
RETURN SERVICE REQUESTED



Member IMC Group

SOLID THREAD

SOLID CARBIDE THREAD MILLS



MTECS-UN

Small Diameter Solid Carbide UN
Profile Threading Endmills for Steel

• 3 FLUTE

PART #	TPI	SIZE	D	H	L	d
MTECS-0250C15-72UN	72.0	#1	0.057	0.150	2.500	0.250
MTECS-0250C15-64UN	64.0	#1 / #2	0.055	0.150	2.500	0.250
MTECS-0250C17-56UN	56.0	#2 / #3	0.065	0.170	2.500	0.250
MTECS-0250C26-56UN	56.0	#2 / #3	0.065	0.260	2.500	0.250
MTECS-0250C20-48UN	48.0	#3 / #4	0.075	0.200	2.500	0.250
MTECS-0250C25-40UN	40.0	#4	0.083	0.250	2.500	0.250
MTECS-0250C28-40UN	40.0	#5 / #6	0.096	0.280	2.500	0.250
MTECS-0250C31-40UN	40.0	#4	0.083	0.310	2.500	0.250
MTECS-0250C38-40UN	40.0	#5 / #6	0.096	0.380	2.500	0.250
MTECS-0250C35-36UN	36.0	#8	0.130	0.350	2.500	0.250
MTECS-0250C38-32UN	32.0	#6	0.100	0.280	2.500	0.250
MTECS-0250C40-32UN	32.0	#6	0.100	0.410	2.500	0.250
MTECS-0250C37-32UN	32.0	#8 / #10	0.126	0.370	2.500	0.250
MTECS-0250C41-32UN	32.0	#10	0.146	0.410	2.500	0.250
MTECS-0250C49-32UN	32.0	#8 / #10	0.126	0.490	2.500	0.250
MTECS-0250C59-32UN	32.0	#10	0.146	0.590	2.500	0.250
MTECS-0250C43-28UN	28.0	#12	0.165	0.430	2.500	0.250
MTECS-0250C57-28UN	28.0	1/4	0.197	0.570	2.500	0.250
MTECS-0250C75-28UN	28.0	1/4	0.197	0.750	2.500	0.250
MTECS-0250C42-24UN	24.0	#10 / #12	0.138	0.420	2.500	0.250
MTECS-0250C55-20UN	20.0	1/4	0.187	0.550	2.500	0.250
MTECS-0250C75-20UN	20.0	1/4	0.187	0.750	2.500	0.250
MTECS-0250C67-18UN	18.0	5/16	0.236	0.670	2.500	0.250
MTECS-0250C91-18UN	18.0	5/16	0.236	0.910	2.500	0.250
MTECS-0312C67-24UN	24.0	5/16	0.260	0.670	2.500	0.312
MTECS-0312C94-24UN	24.0	5/16	0.260	0.940	2.500	0.312
MTECS-0312C87-16UN	16.0	3/8	0.264	0.870	2.500	0.312
MTECS-0312C98-20UN	20.0	7/16	0.312	0.980	2.500	0.312
MTECS-0312C98-14UN	14.0	7/16	0.303	0.980	2.500	0.312
MTECS-0375C10-13UN	13.0	1/2	0.362	1.080	3.000	0.375
MTECS-0500C12-12UN	12.0	9/16	0.413	1.240	3.000	0.500
MTECS-0500C13-11UN	11.0	5/8	0.449	1.360	3.000	0.500
MTECS-0500D14-18UN	18.0	5/8	0.500	1.380	2.500	0.500

MTECSH-ISO (METRIC)

For Hardened Steel

• 3 FLUTE

PART #	PITCH (mm)	SIZE	D	H	L	d
MTECSH-0250C26-0.5ISO	0.500	M3	0.093	0.260	2.500	2.50
MTECSH-0250C37-0.5ISO	0.500	M3	0.093	0.370	2.500	2.50
MTECSH-0250C35-0.7ISO	0.700	M4	0.122	0.350	2.500	2.50
MTECSH-0250C49-0.8ISO	0.800	M5	0.149	0.490	2.500	2.50
MTECSH-0250C55-1.0ISO	1.000	M6	0.183	0.550	2.500	2.50
MTECSH-0250C79-1.0ISO	1.000	M6	0.183	0.811	2.500	2.50
MTECSH-0250C71-1.25ISO	1.250	M8	0.234	0.710	2.500	2.50
MTECSH-0250C94-1.25ISO	1.250	M8	0.234	0.969	2.500	2.50
MTECSH-0312C91-1.5ISO	1.500	M10	0.305	0.910	2.500	3.12
MTECSH-0375C10-1.75ISO	1.750	M12	0.354	1.020	3.000	3.75

MTECSH-UN

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

• 3 FLUTE

PART #	TPI	SIZE	D	H	L	d
MTECSH-0250C16-80UN	80.0	#0	0.045	0.157	2.500	0.250
MTECSH-0250C15-72UN	72.0	#1	0.057	0.150	2.500	0.250
MTECSH-0250C26-56UN	56.0	#2 / #3	0.065	0.260	2.500	0.250
MTECSH-0250C20-48UN	48.0	#3 / #4	0.075	0.200	2.500	0.250
MTECSH-0250C25-40UN	40.0	#4	0.083	0.250	2.500	0.250
MTECSH-0250C31-40UN	40.0	-	0.083	0.310	2.500	0.250
MTECSH-0250C35-36UN	36.0	#8	0.130	0.350	2.500	0.250
MTECSH-0250C28-32UN	32.0	#6	0.100	0.280	2.500	0.250
MTECSH-0250C40-32UN	32.0	-	0.100	0.400	2.500	0.250
MTECSH-0250C37-32UN	32.0	#8	0.126	0.370	2.500	0.250
MTECSH-0250C49-32UN	32.0	#8	0.126	0.490	2.500	0.250
MTECSH-0250C59-32UN	32.0	#10	0.146	0.590	2.500	0.250
MTECSH-0250C75-28UN	28.0	1/4	0.197	0.750	2.500	0.250
MTECSH-0250C57-28UN	28.0	1/4	0.197	0.570	2.500	0.250
MTECSH-0250C42-24UN	24.0	#10 / #12	0.138	0.420	2.500	0.250
MTECSH-0312C67-24UN	24.0	5/16	0.260	0.670	2.500	0.312
MTECSH-0312C94-24UN	24.0	5/16	0.260	0.940	2.500	0.312
MTECSH-0250C55-20UN	20.0	1/4	0.187	0.550	2.500	0.250
MTECSH-0250C75-20UN	20.0	1/4	0.187	0.750	2.500	0.250
MTECSH-0250C67-18UN	18.0	5/16	0.236	0.670	2.500	0.250
MTECSH-0312C87-16UN	16.0	3/8	0.264	0.870	2.500	0.312
MTECSH-0312C98-14UN	14.0	7/16	0.303	0.980	2.500	0.312
MTECSH-0375C10-13UN	13.0	1/2	0.362	1.080	3.000	0.375

MTECS-ISO (METRIC) For Steel

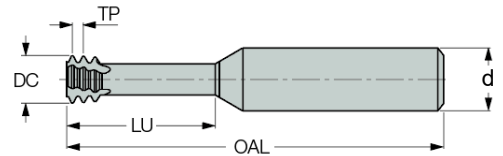
Small Diameter Solid Carbide Threading
Endmills for an Internal ISO Profile

• 3 FLUTE

PART #	PITCH (mm)	SIZE	D	H	L	d	# FL
MTECS-0250C18-0.4ISO	0.400	M2	0.061	0.180	2.500	0.250	3
MTECS-0250C22-0.45ISO	0.450	M2.5	0.077	0.220	2.500	0.250	3
MTECS-0250C30-0.45ISO	0.450	M2.5	0.077	0.300	2.500	0.250	3
MTECS-0250C26-0.5ISO	0.500	M3	0.093	0.260	2.500	0.250	3
MTECS-0250C37-0.5ISO	0.500	M3	0.093	0.370	2.500	0.250	3
MTECS-0250C30-0.6ISO	0.600	M3.5	0.108	0.300	2.500	0.250	3
MTECS-0250C35-0.7ISO	0.700	M4	0.122	0.350	2.500	0.250	3
MTECS-0250C49-0.7ISO	0.700	M4	0.122	0.490	2.500	0.250	3
MTECS-0250C49-0.8ISO	0.800	M5	0.150	0.490	2.500	0.250	3
MTECS-0250C63-0.8ISO	0.800	M5	0.150	0.630	2.500	0.250	3
MTECS-0250C79-1.0ISO	1.000	M6	0.183	0.790	2.500	0.250	3
MTECS-0250C71-1.25ISO	1.250	M8	0.234	0.710	2.500	0.250	3
MTECS-0250C94-1.25ISO	1.250	M8	0.234	0.940	2.500	0.250	3
MTECS-0312C91-1.5ISO	1.500	M10	0.307	0.910	2.500	0.312	3
MTECS-0375C10-1.75ISO	1.750	M12	0.354	1.020	3.000	0.375	3
MTECS-0500D13-2.0ISO	2.000	M16	0.465	1.380	3.000	0.500	4
MTECS-0625E16-2.5ISO	2.500	M20	0.591	1.690	4.000	0.625	5

MTECS-W 55° THREAD

Short Solid Carbide Threading
Endmills for Internal or External BSP
and BSF Thread Profiles

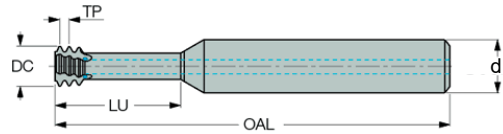


PART #	TPI	SIZE	DC	LU	OAL	d	#FL
MTECS-08078C19-28W	28.0	G 1/8	7.80	19.5	64.00	8.00	3
MTECS-1010D30-19W	19.0	G 1/4-3/8	10.00	30.0	73.00	10.00	4
MTECS-1212D37-14W	14.0	G 1/2-7/8	12.00	37.0	84.00	12.00	4
MTECS-1616D44-11W	11.0	G>1	16.00	44.0	105.00	16.00	4

METRIC SIZES

MTECS-MJ 60° THREAD

Small Diameter Short Solid Carbide
MJ-Type Profile Threading Endmills



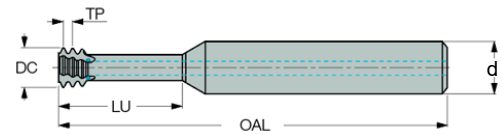
PART #	PITCH (mm)	SIZE	DC	LU	OAL	d	#FL
MTECS-06032C10-0.7MJ	0.700	MJ4	0.126	0.394	2.283	0.236	3
MTECS-06039C12-0.8MJ	0.800	MJ5	0.154	0.492	2.283	0.236	3
MTECS-06048C15-1.0MJ	1.000	MJ6	0.189	0.591	2.283	0.236	3
MTECS-08061C20-1.25MJ	1.250	MJ8	0.240	0.787	2.520	0.315	3
MTECS-0808C25-1.5MJ	1.500	MJ10	0.315	0.984	2.520	0.315	3
MTECS-10092C30-1.75MJ	1.750	MJ12	0.362	1.181	2.874	0.394	3
MTECS-1010C35-2.0MJ	2.000	MJ14, MJ16	0.394	1.378	2.874	0.394	3

INCH SIZES

MTECS-UNJ 60° THREAD

Small Diameter Short Solid Carbide
UNJ-Type Profile Threading Endmills

• 3 FLUTE



PART #	TPI	SIZE	DC	LU	OAL	d	COOLANT HOLE
MTECS-06033C10-32UNJ	32.0	#8 / #10	0.130	0.413	2.283	0.236	NO
MTECS-08051C16-28UNJ	28.0	1/4	0.201	0.630	2.520	0.315	YES
MTECS-08067C20-24UNJ	24.0	5/16 / 3/8	0.264	0.787	2.520	0.315	YES
MTECS-06049C16-20UNJ	20.0	1/4	0.193	0.630	2.283	0.236	NO
MTECS-0808C28-20UNJ	20.0	7/16	0.315	1.102	2.520	0.315	YES
MTECS-08061C20-18UNJ	18.0	5/16 / 9/16	0.242	0.787	2.520	0.315	YES
MTECS-08069C24-16UNJ	16.0	3/8	0.272	0.945	2.520	0.315	YES
MTECS-08079C25-14UNJ	14.0	7/16	0.311	0.984	2.520	0.315	YES
MTECS-10094C27-13UNJ	13.0	1/2	0.370	1.083	2.874	0.394	YES