

**CARMET TOOLS & INSERTS Ltd.**

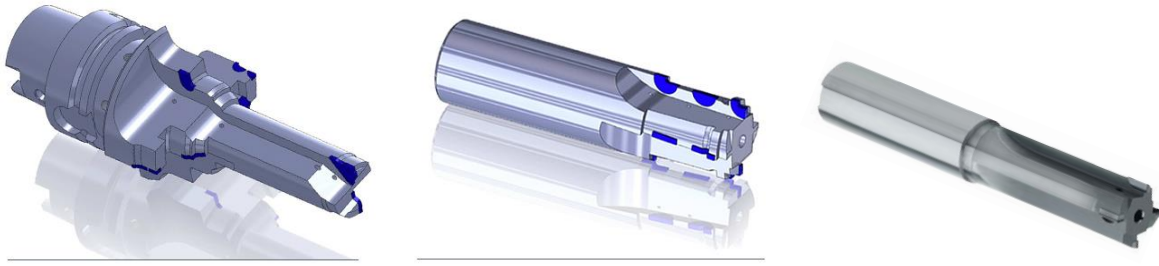


[carmet@carmettools.com](mailto:carmet@carmettools.com)

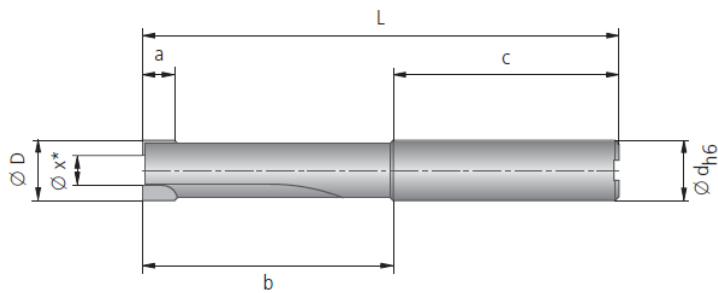
**CARMET**  
TOOLS & INSERTS

# PCD TOOLS





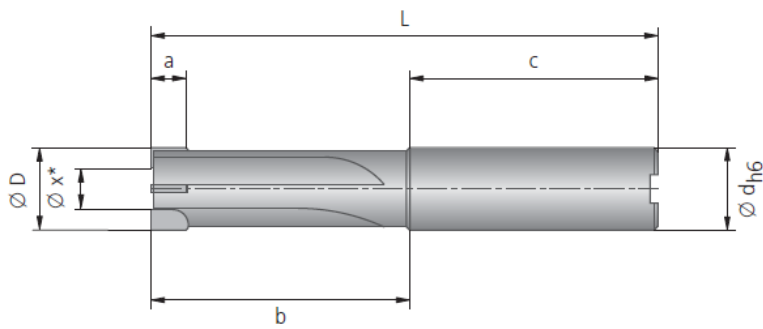
## PCD Reamer with 2 flutes.



Ø D	L	b	c	a
*0.1575 – 0.1811 (4.000 – 4.600)	2.520 (64)	1.102 (28)	1.417 (36)	0.276 (7)
*0.1812 – 0.2008 (4.601 – 5.100)	2.520 (64)	1.102 (28)	1.417 (36)	0.276 (7)
*0.2009 – 0.2205 (5.101 – 5.600)	2.520 (64)	1.102 (28)	1.417 (36)	0.276 (7)
0.2206 – 0.2402 (5.601 – 6.100)	2.795 (71)	1.378 (35)	1.417 (36)	0.276 (7)
0.2403 – 0.2598 (6.101 – 6.600)	2.992 (76)	1.575 (40)	1.417 (36)	0.276 (7)
0.2599 – 0.2795 (6.601 – 7.100)	2.992 (76)	1.575 (40)	1.417 (36)	0.276 (7)
0.2796 – 0.2992 (7.101 – 7.600)	2.992 (76)	1.575 (40)	1.417 (36)	0.276 (7)
0.2993 – 0.3189 (7.601 – 8.100)	2.992 (76)	1.575 (40)	1.417 (36)	0.276 (7)
0.3190 – 0.3386 (8.101 – 8.600)	3.346 (85)	1.575 (40)	1.772 (45)	0.276 (7)
0.3387 – 0.3583 (8.601 – 9.100)	3.346 (85)	1.575 (40)	1.772 (45)	0.276 (7)
0.3584 – 0.3976 (9.101 – 10.100)	3.346 (85)	1.575 (40)	1.772 (45)	0.276 (7)
0.3977 – 0.4567 (10.101 – 11.600)	3.740 (95)	1.969 (50)	1.772 (45)	0.276 (7)
0.4568 – 0.5552 (11.601 – 14.100)	3.740 (95)	1.969 (50)	1.772 (45)	0.276 (7)
0.5553 – 0.5945 (14.101 – 15.100)	3.858 (98)	1.969 (50)	1.890 (48)	0.276 (7)
0.5946 – 0.6339 (15.101 – 16.100)	3.858 (98)	1.969 (50)	1.890 (48)	0.276 (7)
0.6340 – 0.7126 (16.101 – 18.100)	4.252 (108)	2.362 (60)	1.890 (48)	0.276 (7)
0.7127 – 0.7913 (18.101 – 20.100)	4.331 (110)	2.362 (60)	1.968 (50)	0.276 (7)

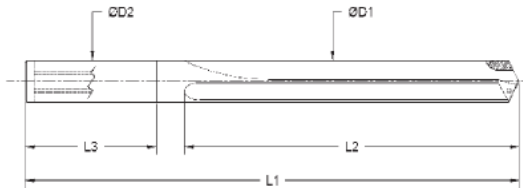


## PCD Reamer with 4 flutes



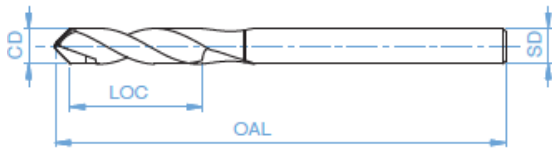
Ø D	L	b	c	a	Ø d <sub>h6</sub> mm
0.3780 – 0.3976 (9.601 – 10.100)	3.346 (85)	1.575 (40)	1.772 (45)	0.276 (7)	12
0.3977 – 0.4567 (10.101 – 11.600)	3.740 (95)	1.969 (50)	1.772 (45)	0.276 (7)	12
0.4568 – 0.5552 (11.601 – 14.100)	3.740 (95)	1.969 (50)	1.772 (45)	0.276 (7)	12
0.5553 – 0.5945 (14.101 – 15.100)	3.858 (98)	1.969 (50)	1.890 (48)	0.276 (7)	16
0.5946 – 0.6339 (15.101 – 16.100)	3.858 (98)	1.969 (50)	1.890 (48)	0.276 (7)	16
0.6340 – 0.7126 (16.101 – 18.100)	4.252 (108)	2.362 (60)	1.890 (48)	0.276 (7)	16
0.7127 – 0.7913 (18.101 – 20.100)	4.331 (110)	2.362 (60)	1.968 (50)	0.276 (7)	20

## PCD.....BURNISHING-Reaming DRILL



CUTTING DIAMETER (D1)	DEC EQUIV	TAP SIZE REFERENCE	SHANK DIAMETER (D2)	OVERALL LENGTH (L1)	FLUTE LENGTH (L2)	SHANK LENGTH (L3)
5.0 mm	0.1969	M6 X 1	6 mm	66 mm	28 mm	36 mm
B	0.238		1/4	(3-1/8)	(1-5/16)	(1-7/16)
6.1 mm	0.2402		8 mm	79 mm	34 mm	36 mm
I	0.272	5/16-24	5/16	(3-1/8)	(1-5/16)	(1-7/16)
7.0 mm	0.2756	M8 X 1	8 mm	79 mm	34 mm	36 mm
J	0.277		5/16	(3-1/8)	(1-5/16)	(1-7/16)
8.0 mm	0.315	M9 X 1	8 mm	79 mm	41 mm	36 mm
O	0.316		3/8	(3-1/2)	1-27/32	(1-9/16)
9.0 mm	0.3543	M10 X 1	10 mm	89 mm	47 mm	40 mm
25/64	0.3906	7/16-20	1/2	(3-1/2)	1-27/32	(1-9/16)
10.0 mm	0.3937		10 mm	89 mm	47 mm	40 mm
X	0.397	7/16-24	1/2	(4-1/16)	(4-1/16)	1-49/64
11.0 mm	0.4331	M12 X 1	12 mm	102 mm	55 mm	45 mm
15/32	0.4688	(1/2-28)	1/2	(4-1/16)	(4-1/16)	1-49/64
12.0 mm	0.4724	M14 X 2	12 mm	102 mm	55 mm	45 mm
31/64	0.4844	9/16-12	1/2	(4-1/4)	(2-5/16)	1-49/64
13.0 mm	0.5118	M14 X 1	14 mm	107 mm	60 mm	45 mm
14.0 mm	0.5512	M16 X 2	14 mm	107 mm	60 mm	45 mm
15.0 mm	0.5906	M16 X 1	16 mm	115 mm	65 mm	48 mm
16.0 mm	0.6299		16 mm	115 mm	65 mm	48 mm
21/32	0.6562	(3/4-10)	3/4	(4-7/8)	(2-3/4)	1-57/64
17.0 mm	0.6693		18 mm	123 mm	73 mm	48 mm
18.0 mm	0.7087		18 mm	123 mm	73 mm	48 mm
19.0 mm	0.748	(7/8-9)	20 mm	131 mm	79 mm	50 mm
(3/4)	0.75	M22 X 2.5	3/4	(5-1/4)	(3-1/16)	1-31/32

## PCD DRILLS

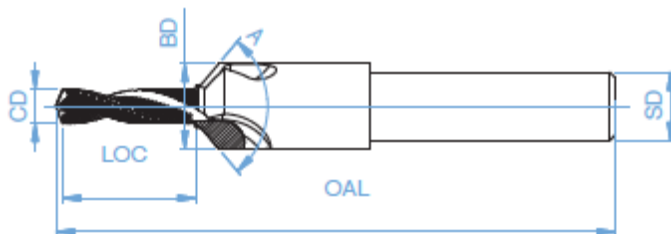
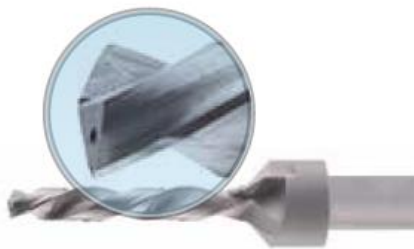


Cutting Diameter (+0.006)	Shank Diameter (h6)	LOC (+03)	OAL (+06)
0.165	1/4	1.125	2.75
0.191	1/4	1.125	2.75
0.251	5/16	1.25	3
0.3125	5/16	1.25	3
0.375	3/8	1.5	3.5
0.4375	1/2	1.75	3.5
0.500	1/2	2	4

Cutting Diameter (+0.015)	Shank Diameter (h6)	LOC (+0.8)	OAL (+1.5)
4.19	6.00	28	70
4.85	6.00	28	70
6.375	8.00	32	75
7.938	8.00	32	75
10.00	10.00	40	84
12.00	12.00	45	89



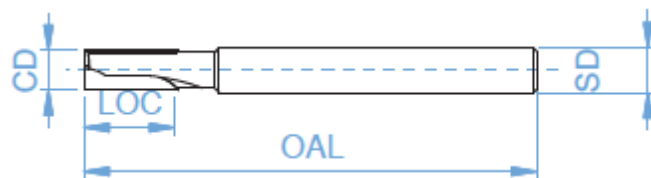
## PCD DRILL & COUNTERSINK - combined



Cutting Diameter (+0.006)	Shank Diameter (h6)	Body Diameter (+/-0.01)	CSK Angel
0.165	1/4	0.375	100/130
0.191	3/8	0.500	100/130
0.251	5/16	0.625	100/130
0.3125	5/16	0.625	100/130



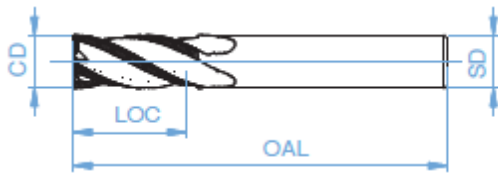
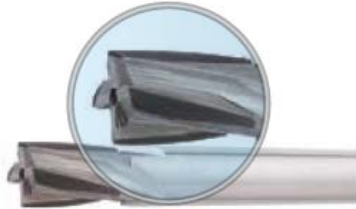
## PCD END MILLS



Cutting Diameter (-002)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
1/8	1/8	1/4	2	1
3/16	3/16	5/16	2	1
1/4	1/4	3/8	2	2
3/8	3/8	1/2	2.5	2
1/2	1/2	5/8	3	2
5/8	5/8	3/4	3.25	2

Cutting Diameter (-0.05)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
3	3.00	6	60	1
4	4.00	6	60	1
6	6.00	10	70	2
8	8.00	15	70	2
10	10.00	15	75	2
12	12.00	18	75	2
16	16.00	20	75	2

## PCD ROUTER SPIRAL FLUTES

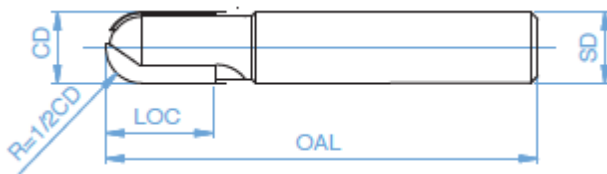


Cutting Diameter (-.002)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
1/4	1/4	1/2	2.1/2	3
3/8	3/8	1/2	3	4
1/2	1/2	5/8	3.5	4
5/8	5/8	3/4	4	4

Cutting Diameter (-.005)	Shank Diameter (h6)	LOC (+08)	OAL (+1.5)	Number of Flutes
6	6.00	10	63	3
10	10.00	15	76	4
12	12.00	15	84	4
16	16.00	20	100	4



## PCD Ball nose endmill

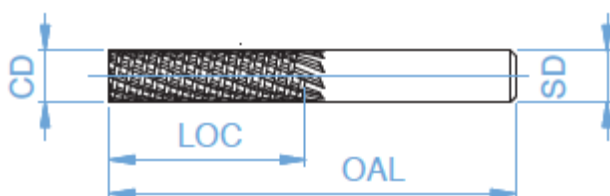
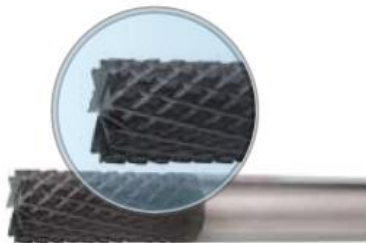


Cutting Diameter (-.002)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
1/8	1/8	1/4	2	1
3/16	3/16	5/16	2	1
1/4	1/4	3/8	2	2
3/8	3/8	1/2	2.5	2
1/2	1/2	5/8	3	2
5/8	5/8	3/4	3.25	3

Cutting Diameter (-0.05)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flute
3	3.00	6	60	1
4	4.00	6	60	1
6	6.00	10	70	2
8	8.00	15	70	2
10	10.00	15	75	2
12	12.00	18	75	2
16	16.00	20	75	3



## ROUTER diamond cvd coated



Cutting Diameter (-.002)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
1/4	1/4	1	2.5	6
3/8	3/8	1.25	3	10
1/2	1/2	1.5	4	12

Cutting Diameter (-0.05)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
6	6.00	25	63	6
8	8.00	32	76	8
10	10.00	35	76	10
12	12.00	40	80	12



## COMPRESSION ROUTER CVD DIAMOND COATED

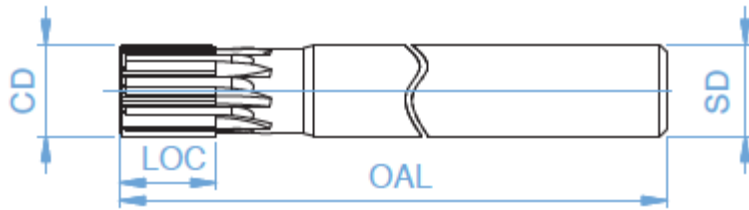
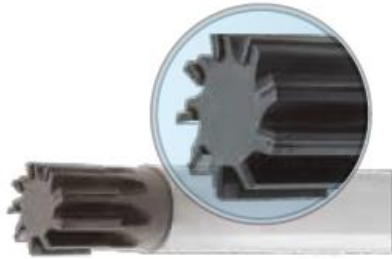




Cutting Diameter (-.002)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
1/4	1/4	1	2.5	6
3/8	3/8	1.25	3	6
1/2	1/2	1.5	4	6
Cutting Diameter (-0.05)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
6	6.00	25	63	6
8	8.00	32	76	6
10	10.00	35	76	6
12	12.00	40	80	6

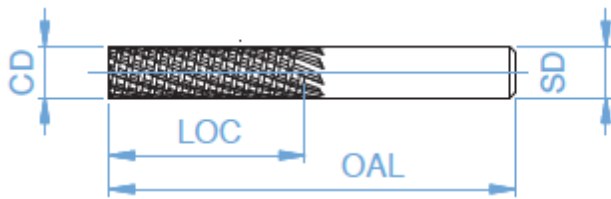
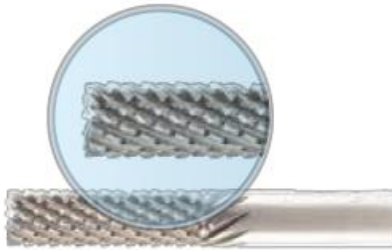


## PCD Multi flute close pitch ENDMILL



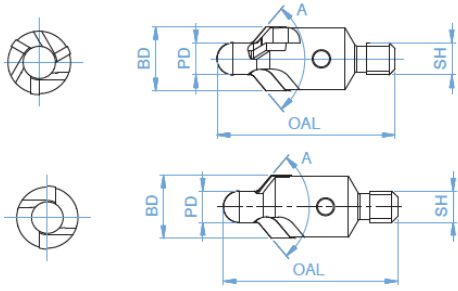
Cutting Diameter (-.005)	Shank Diameter (h6)	LOC (+.08)	OAL (+1.5)	Number of Flute
4	4.00	6	50	3
6	6.00	6	60	3
8	8.00	11	60	3
10	10.00	13	63	5
12	12.00	13	75	5
12	12.00	13	75	7
12	12.00	13	75	9
16	16.00	16	79	3
16	16.00	16	79	9

## CARBIDE ROUTER



Cutting Diameter (-0.05)	Shank Diameter (h6)	LOC (+03)	OAL (+06)	Number of Flutes
6	6.00	25	63	6
8	8.00	32	76	8
10	10.00	35	76	10
12	12.00	40	80	12

## PCD Countersink integral pilot


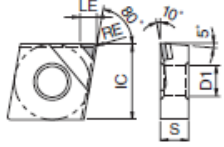

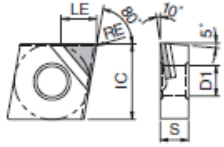

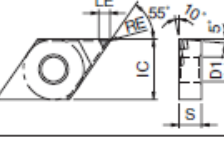

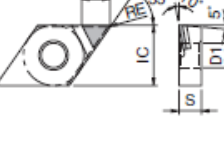

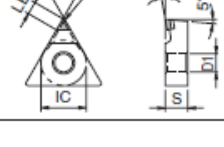

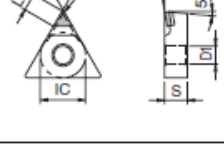

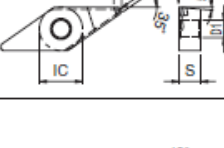

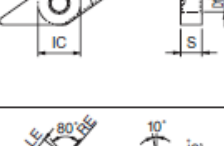

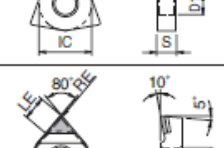

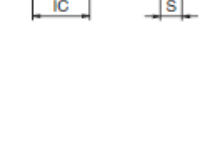




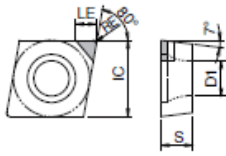
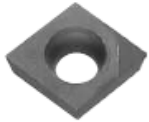
Body Dia. (+/-0.03)	Pilot Dia. (-0.001)	Number of flutes	CSK Angle (+/-0.5)	Thread shank
3/8	0.125	2 / 3	100/130	1/4"-28
3/8	0.128	2 / 3	100/130	1/4"-28
7/16	0.156	2 / 3	100/130	1/4"-28
7/16	0.187	2 / 3	100/130	1/4"-28
1/2	0.125	2 / 3	100/130	1/4"-28
1/2	0.128	2 / 3	100/130	1/4"-28
1/2	0.239	2 / 3	100/130	1/4"-28
5/8	0.191	2 / 3	100/130	1/4"-28
5/8	0.25	2 / 3	100/130	1/4"-28
3/4	0.312	2 / 3	100/130	3/8"-24
7/8	0.312	2 / 3	100/130	3/8"-24
1	0.312	2 / 3	100/130	7/16"-20
1.1/4	0.312	2 / 3	100/130	7/16"-20

Body Dia. (+/-0.03)	Pilot Dia. (-0.001)	Number of flutes	CSK Angle (+/-0.5)	Thread shank
10	3.00	2 / 3	100/130	M6x1.0
12	3.00	2 / 3	100/130	M6x1.0
14	3.00	2 / 3	100/130	M8x1.0
17	4.00	2 / 3	100/130	M8x1.0
19	6.00	2 / 3	100/130	M8x1.0
22	8.00	2 / 3	100/130	M8x1.0
25	8.00	2 / 3	100/130	M8x1.0

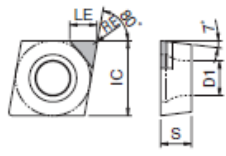


## PCD INSERTS

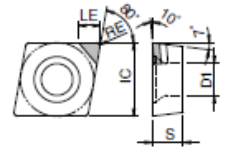
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		DNMM	150402 150404 150408 150412
 Small Edge		DNMM	150402 150404 150408 150412
		DNMM	150402 150404 150408 150412
 Small Edge		TNMM	160402 160404 160408
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 Small Edge		TNMM	160402 160404 160408 160412
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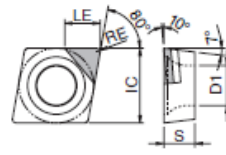
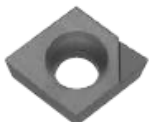
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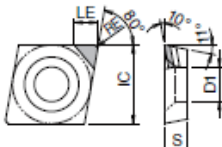
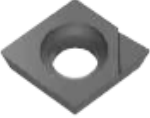
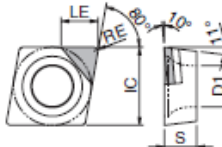

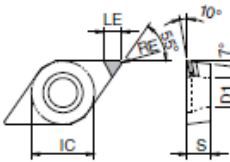
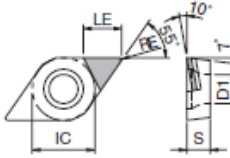

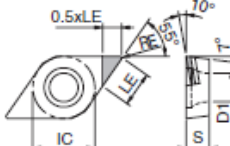
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	040104
CCGW	060201
	060202
	060204
CCGW	09T301
	09T302
	09T304
	09T308
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	040104
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	060202
	060204
CCGW	09T301
	09T302
	09T304
	09T308


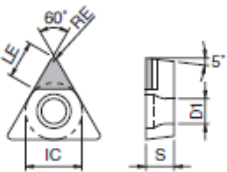

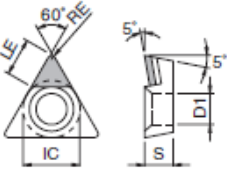

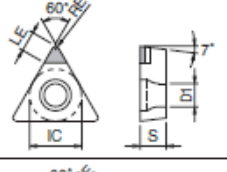

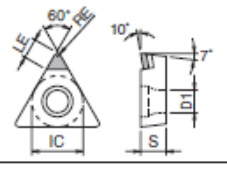

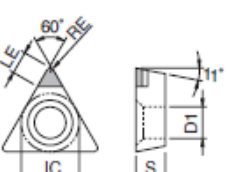


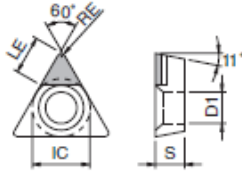
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CCMT	09T301
	09T302
	09T304
	09T308



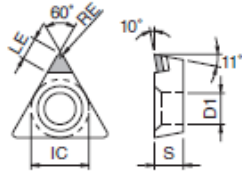
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	060204
CCMT	09T301
	09T302
	09T304
	09T308
CCMT	060201
	060202
	060204
CCMT	09T301
	09T302
	09T304
	09T308

		<p>CPMH 090302 090304</p>	
		<p>CPMH 080202 080204</p>	
		<p>CPMH 090301 090302 090304 090308</p> <p>CPMH 080201 080202 080204</p> <p>CPMH 090301 090302 090304 090308</p>	
			<p>DCMT 070201 070202 070204</p> <p>DCMT 11T301 11T302 11T304 11T308</p>
			<p>DCMT 070201 070202 070204</p>
			<p>DCMT 11T301 11T302 11T304 11T308</p>
			<p>DCMT 070201 070202 070204</p>
		<p>DCMT 11T301 11T302 11T304 11T308</p>	
			<p>DCMT 070202 070204</p> <p>DCMT 11T302 11T304</p>

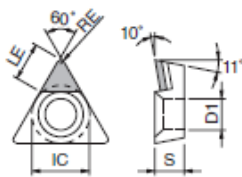
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		TCGW	110302 110304
		TCGW	110302
		TCMT	110301 110302 110304
		TCMT	080202 110302 110304
		TCMT	080202 080204
		TCMT	110302
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		TPGB	110301 110302 110304
		TPGB	160302 160304




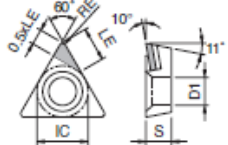
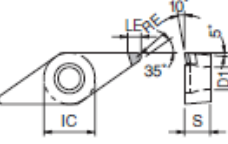

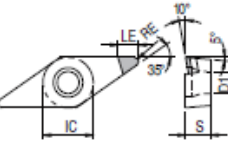

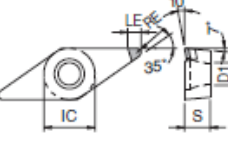
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TPGB	090202 090204
TPGB	110302 110304 110308

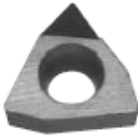
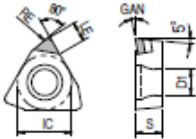
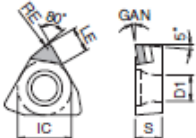

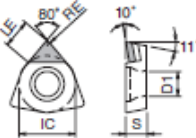

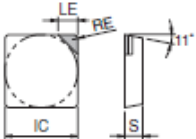

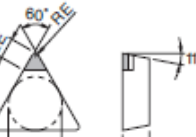
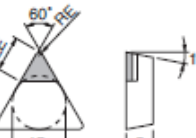



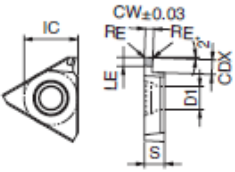

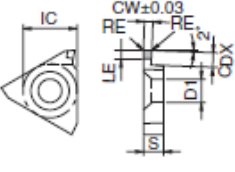

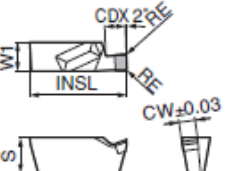

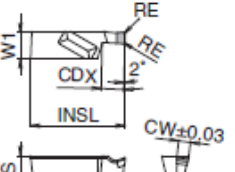

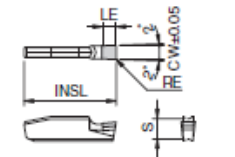

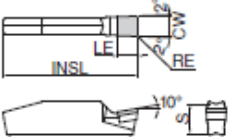
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TPMH	110301 110302 110304
TPMH	160302 160304



TPMH	080201 080202 080204
TPMH	090201 090202 090204 090208
TPMH	110301 110302 110304 110308
TPMH	160304 160308
TPMH	080202 080204
TPMH	090201 090202 090204 090208
TPMH	110301 110302 110304 110308
TPMH	160302 160304 160308

		<b>TPMH</b> 110302 110304
		<b>VBMT</b> 110301: 110302: 110304: 110308: <b>VBMT</b> 160401: 160402: 160404: 160408:
		<b>VBMT</b> 110301 110302 110304 110308 <b>VBMT</b> 160401 160402 160404 160408 <b>VBMT</b> 110301 110302 110304 110308 <b>VBMT</b> 160401 160402 160404 160408
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		WBMT 060102
		WBMT 080202
		WBMT 060101 060102 060104
		WBMT 080202 080204
		WBMT 060101 060102 060104
		WBMT 080202 080204
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		SPGN 120304
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		TPGN 160304 160308
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		TPGN 160302 160304 160308

 <p>External / Internal Grooving</p>		<table border="1"> <tbody> <tr> <td><b>GBA32R</b></td> <td>125-010</td> </tr> <tr> <td></td> <td>150-010</td> </tr> <tr> <td><b>GBA43<sup>°</sup>L</b></td> <td>125-010</td> </tr> <tr> <td></td> <td>150-010</td> </tr> <tr> <td></td> <td>200-010</td> </tr> <tr> <td></td> <td>250-010</td> </tr> <tr> <td></td> <td>300-010</td> </tr> </tbody> </table>	<b>GBA32R</b>	125-010		150-010	<b>GBA43<sup>°</sup>L</b>	125-010		150-010		200-010		250-010		300-010
<b>GBA32R</b>	125-010															
	150-010															
<b>GBA43<sup>°</sup>L</b>	125-010															
	150-010															
	200-010															
	250-010															
	300-010															
 <p>External Grooving</p>		<table border="1"> <tbody> <tr> <td><b>TGF32R</b></td> <td>125-010</td> </tr> <tr> <td></td> <td>150-010</td> </tr> <tr> <td></td> <td>200-010</td> </tr> </tbody> </table>	<b>TGF32R</b>	125-010		150-010		200-010								
<b>TGF32R</b>	125-010															
	150-010															
	200-010															
 <p>Internal Grooving</p>		<table border="1"> <tbody> <tr> <td><b>GV<sup>°</sup>L</b></td> <td>145-020</td> </tr> <tr> <td></td> <td>200-020</td> </tr> <tr> <td><b>GV<sup>°</sup>L</b></td> <td>200-020</td> </tr> <tr> <td></td> <td>250-020</td> </tr> <tr> <td><b>GV<sup>°</sup>L</b></td> <td>300-020</td> </tr> <tr> <td></td> <td>400-020</td> </tr> </tbody> </table>	<b>GV<sup>°</sup>L</b>	145-020		200-020	<b>GV<sup>°</sup>L</b>	200-020		250-020	<b>GV<sup>°</sup>L</b>	300-020		400-020		
<b>GV<sup>°</sup>L</b>	145-020															
	200-020															
<b>GV<sup>°</sup>L</b>	200-020															
	250-020															
<b>GV<sup>°</sup>L</b>	300-020															
	400-020															
 <p>Face Grooving</p>		<table border="1"> <tbody> <tr> <td><b>GVF<sup>°</sup>L</b></td> <td>250-020</td> </tr> <tr> <td></td> <td>300-020</td> </tr> <tr> <td></td> <td>400-020</td> </tr> <tr> <td><b>GVF<sup>°</sup>L</b></td> <td>350-020</td> </tr> <tr> <td><b>GVF<sup>°</sup>L</b></td> <td>350-040</td> </tr> </tbody> </table>	<b>GVF<sup>°</sup>L</b>	250-020		300-020		400-020	<b>GVF<sup>°</sup>L</b>	350-020	<b>GVF<sup>°</sup>L</b>	350-040				
<b>GVF<sup>°</sup>L</b>	250-020															
	300-020															
	400-020															
<b>GVF<sup>°</sup>L</b>	350-020															
<b>GVF<sup>°</sup>L</b>	350-040															
 <p>External Deep Grooving</p>		<table border="1"> <tbody> <tr> <td><b>GMN</b></td> <td>2</td> </tr> <tr> <td></td> <td>3</td> </tr> <tr> <td></td> <td>4</td> </tr> <tr> <td></td> <td>5</td> </tr> <tr> <td></td> <td>6</td> </tr> </tbody> </table>	<b>GMN</b>	2		3		4		5		6				
<b>GMN</b>	2															
	3															
	4															
	5															
	6															
 <p>External Deep Grooving</p>		<table border="1"> <tbody> <tr> <td><b>GDGS</b></td> <td>2020N-020</td> </tr> <tr> <td></td> <td>3020N-020</td> </tr> <tr> <td></td> <td>4020N-020</td> </tr> <tr> <td></td> <td>5020N-020</td> </tr> <tr> <td></td> <td>6020N-020</td> </tr> </tbody> </table>	<b>GDGS</b>	2020N-020		3020N-020		4020N-020		5020N-020		6020N-020				
<b>GDGS</b>	2020N-020															
	3020N-020															
	4020N-020															
	5020N-020															
	6020N-020															



	<b>GMGW</b> 6030-30
	8030-40
	<b>GMGW</b> 8030-40



	<b>TKF12<sup>R/L</sup></b> 200
	250
	<b>TKF16<sup>R/L</sup></b> 250
	250
	<b>TKF12L</b> 200
	250
	<b>TKF16L</b> 250
	250

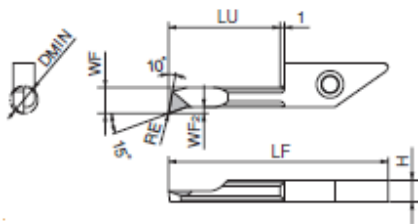
● Insert hand : Left-hand /  
PCD edge hand: Right-hand

Turning / Grooving



	<b>TKF12<sup>R/L</sup></b> 150
	200
	250
	250

External Grooving  
(Turning is possible)



Micro Boring

<b>VNBR</b> 0411-02
0420-02
<b>VNBR</b> 0511-02
0520-02
<b>VNBR</b> 0620-02
0630-02
<b>VNBR</b> 0720-02
0730-02

<p>Micro Grooving</p>	VNGR 0410-11
	0420-11
	VNGR 0510-11
	0520-11
	VNGR 0610-20
0620-20	
VNGR 0710-20	
0720-20	

<p>Micro Face Grooving</p>	VNFGR 0820-10
	0830-10


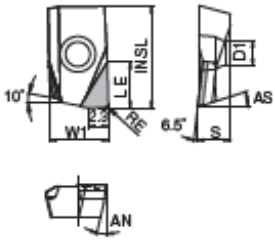

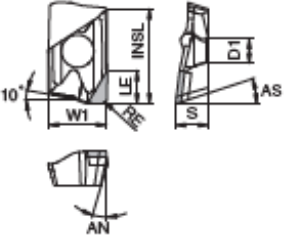

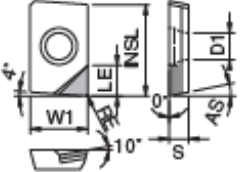
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	1203.

	SEEN 1203.
	1203.

<p>With Wiper Edge</p>	SEEN 1203.
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	SOKN 13T3
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	TEEN 1603
	1603
	TEKN 2204
	2204

		<p><b>BDGT 11T302</b></p> <hr/> <p><b>11T304</b></p> <hr/> <p><b>11T308</b></p> <hr/> <p><b>BDGT 11T302</b></p> <hr/> <p><b>11T304</b></p> <hr/> <p><b>11T308</b></p>
		<p><b>BDMT 11T302</b></p> <hr/> <p><b>11T304</b></p> <hr/> <p><b>BDMT 170402</b></p> <hr/> <p><b>170404</b></p>
		<p><b>NDCW 150302</b></p> <hr/> <p><b>150302</b></p>

## ***Carmet Tools & Inserts Ltd.***

71/ F- II, Pimpri MIDC  
Pune -411 018 [INDIA]

Email : [carmet@carmettools.com](mailto:carmet@carmettools.com)

Tel: +91 9730023916 / 17 / 18

Web: [www.carmettools.com](http://www.carmettools.com)







