



AutoCAMIN

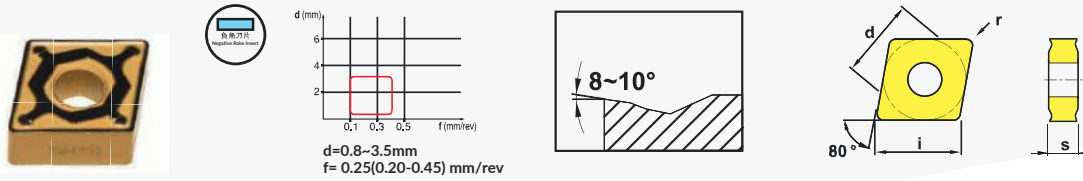
one click for your all manufacturing  
needs & CNC operations

# TURNING TOOLS

All types of CNC tools for your die and mold manufacturing  
requirements.

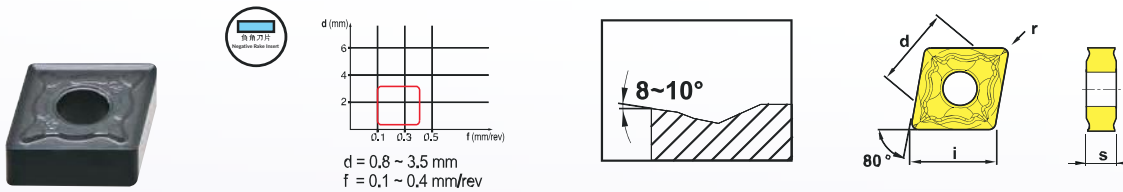


# NEGATIVE RAKE ANGLE INSERT



Spec.	Layer coated carbide alloy				(mm)			
	CVD				Size			
	RM4035				d	i	s	r
★ NEW CNMG120404N-M01	Ⓟ				12.7	12.9	4.76	0.4
★ NEW CNMG120408N-M01	Ⓟ				12.7	12.9	4.76	0.8

★ Recommended, **NEW** New Prod

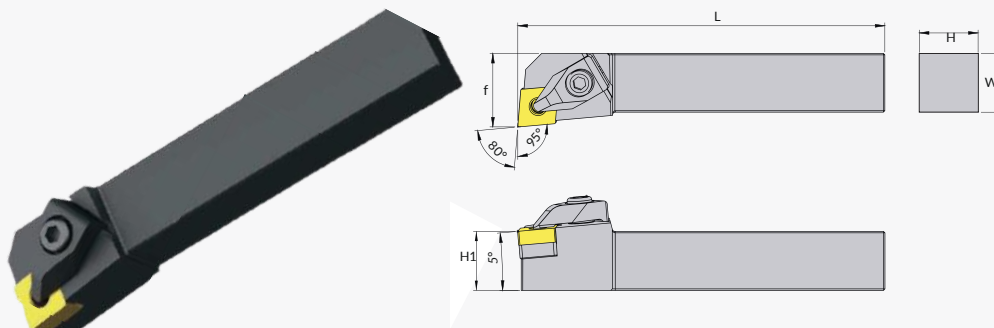


Spec.	Layer coated carbide alloy				(mm)			
	CVD				Size			
	RM425	RM315	RM125		d	i	s	r
CNMG120404-GM2	Ⓟ Ⓜ	Ⓚ			12.7	12.9	4.76	0.4
CNMG120408-GM2	Ⓟ Ⓜ	Ⓚ			12.7	12.9	4.76	0.8
CNMG120408-GR2		Ⓚ			12.7	12.9	4.76	0.8
CNMG120408-BM2			Ⓜ		12.7	12.9	4.76	0.8
CNMG120412-BM2			Ⓜ		12.7	12.9	4.76	1.2
CNMG120404-GS2	Ⓟ Ⓜ				12.7	12.9	4.76	0.4
CNMG120408-GS2	Ⓟ Ⓜ				12.7	12.9	4.76	0.8

## DCLNR EXTERNAL TURNING TOOL

Type D Clamp Design

**NEW**



### Feature

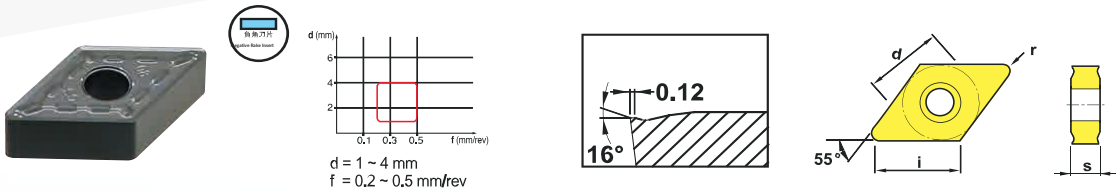
- The blade lock has good fixation.
- Rigid clamping and strong locking.
- Easy transposition.
- Reduce tool change and calibration time.

Unit of Length (mm)

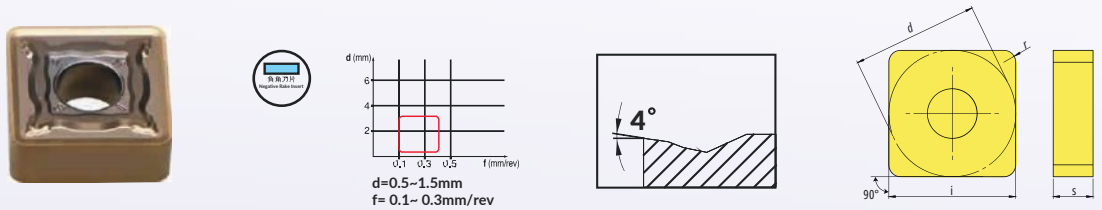
SPEC.	L	H	W	H1	f	insert	(KGS) Weight
DCLNR-2020K-12	125	20	20	20	25	CN..1204	0.45
DCLNR-2525M-12	150	25	25	25	32	CN..1204	0.8

## Accessories

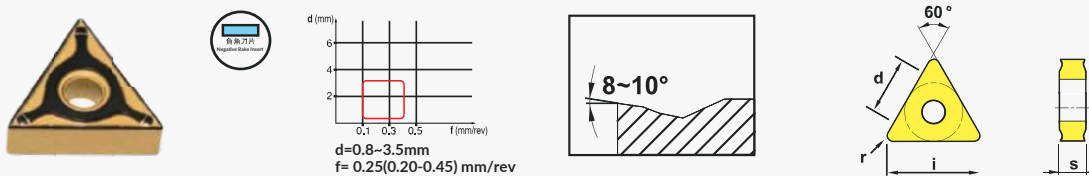
Insert	Shim	Shim Screw	Wrench	(N.m)Torque	Clamp	Clamp Screw	Spring	Wrench	(N.m)Torque
DCLNR-2020K-12 DCLNR-2525M-12	CNS1204	M4-10-5.7-60	T15	3	DCP-2	M5-20-4.9	DCS-2	PL4	5



Spec.	Layer coated carbide alloy			(mm)			
	CVD			Size			
	RM425	RM315		d	i	s	r
DNMG150404-GM	P M	K		12.7	15.5	4.76	0.4
DNMG150408-GM	P M	K		12.7	15.5	4.76	0.8
DNMG150412-GM	P M	K		12.7	15.5	4.76	1.2
DNMG150604-GS2	P M			12.7	15.5	6.35	0.4
DNMG150608-GS2	P M			12.7	15.5	6.35	0.8



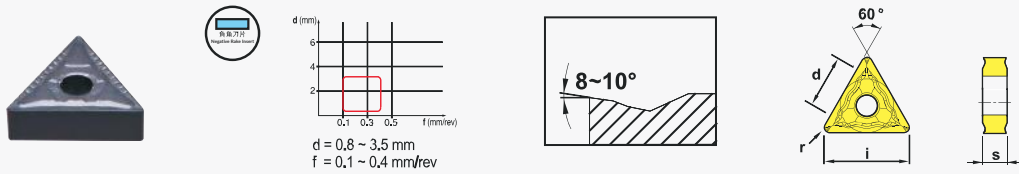
Spec.	Layer coated carbide alloy			(mm)			
	CVD			Size			
	RM125			d	i	s	r
SNMG120412-BM2	M			12.7	12.7	4.76	1.2



Spec.	Layer coated carbide alloy			(mm)			
	CVD			Size			
	RM125			d	i	s	r
★ NEW TNMG160404N-M01	P			9.525	16.5	4.76	0.4
★ NEW TNMG160408N-M01	P			9.525	16.5	4.76	0.8

★ Recommended, NEW New Prod

Unit of Length (mm)

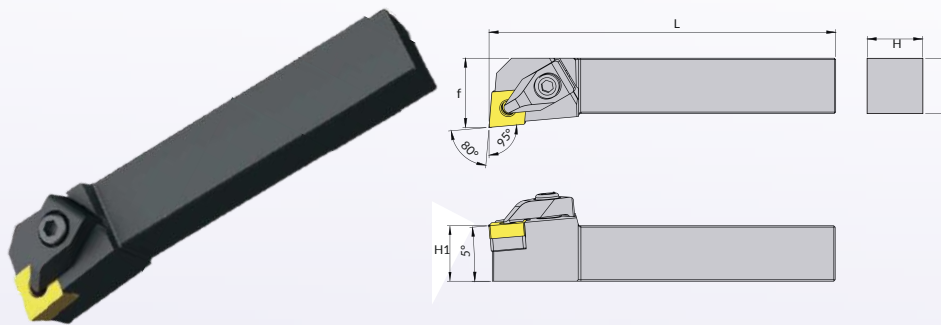


Spec.	Layer coated carbide alloy			Micro grain carbide alloy		(mm)			
	CVD			HF		Size			
	RM425	RM315	RM125	RM5005		d	i	s	r
TNMG160404-GM2	P M	K				9.525	16.5	4.76	0.4
TNMG160408-GM2	P M	K				9.525	16.5	4.76	0.8
TNMG160404-GS2	P M					9.525	16.5	4.76	0.4
TNMG160408-GS2	P M					9.525	16.5	4.76	0.8
TNMG160408-MA1			M			9.525	16.5	4.76	0.8
TNMG160412-MA1			M			9.525	16.5	4.76	1.2
TNMG160404-NA				N		9.525	16.5	4.76	0.4
TNMG160408-NA				N		9.525	16.5	4.76	0.8

## DWLNR EXTERNAL TURNING TOOL

Type D Clamp Design

**NEW**



### Feature

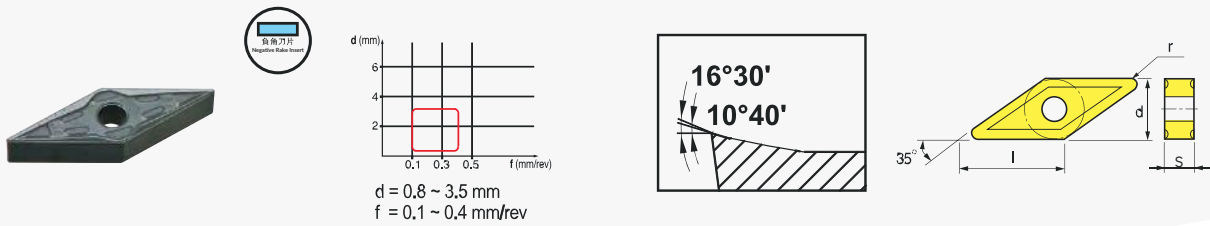
- The blade lock has good fixation.
- Rigid clamping and strong locking.
- Easy transposition.
- Reduce tool change and calibration time.

SPEC.	L	H	W	H1	f	insert	(KGS) Weight
DTJNR-2020K-16	125	20	20	20	25	TN..1604	0.45
DTJNR-2525M-16	150	25	25	25	32	TN..1604	0.8

### Accessories

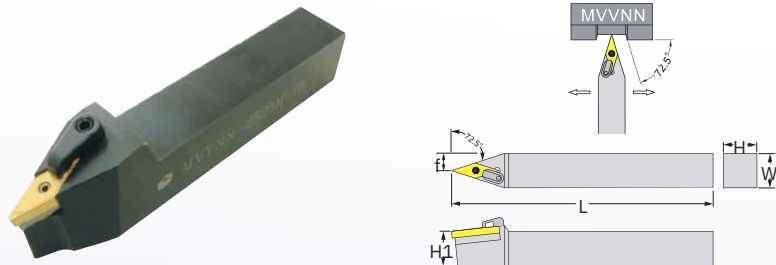
Insert	Shim	Shim Screw	Wrench	(N.m)Torque	Clamp	Clamp Screw	Spring	Wrench	(N.m)Torque
DTJNR-2020K-16	TNS1604	M4-9-5.15-47	T15	3	DCP-1	M5-20-4.9	DCS-2	PL4	5
DTJNR-2525M-16									

Unit of Length (mm)



Spec.	Layer coated carbide alloy		Micro grain carbide alloy		(mm)			
	CVD		HF		Size			
	RM425		RM5005		d	i	s	r
VNMG160404-GM2	<b>P</b> <b>M</b>				16.6	9.525	4.76	0.4
VNMG160408-GM2	<b>P</b> <b>M</b>				16.6	9.525	4.76	0.8
VNMG160408-NA			<b>N</b>		9.525	16.6	4.76	0.8

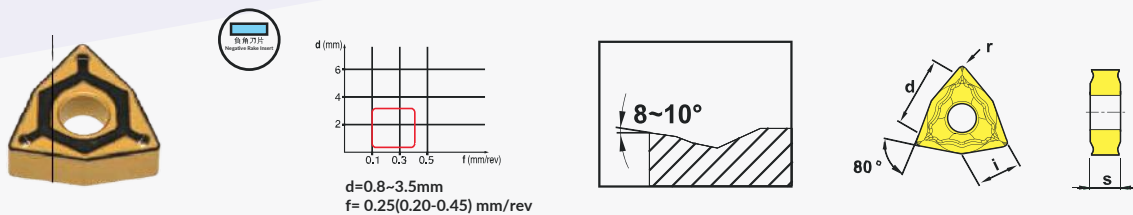
## MVVNN EXTERNAL TURNING TOOL



SPEC.	L	H	W	H1	f	insert	(KGS) Weight
MVVNN-2020K-16	125	20	20	20	10	VN..1604	0.43
MVVNN-2525M-16	150	25	25	25	12.5	VN..1604	0.75

## Accessories

Insert	Shim	Shim Screw	Wrench	(N.m)Torque	Clamp	Clamp Screw	Wrench	(N.m)Torque
MVVNN-2020K-16	VMS322	MLP34L	PL2	3.0	MC622	MS625	PL3	5.0
MVVNN-2525M-16						MS630		

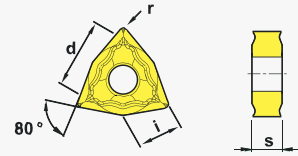
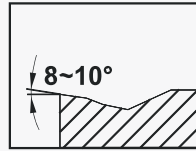
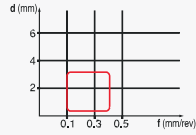
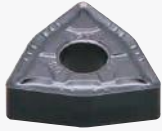


Spec.	Layer coated carbide alloy		(mm)			
	CVD		Size			
	RM425		d	i	s	r
★ NEW WNMGO80404N-M01	<b>P</b>		12.7	8.7	4.76	0.4
★ NEW WNMGO80408N-M01	<b>P</b>		12.7	8.7	4.76	0.8

★ Recommended, NEW New Prod

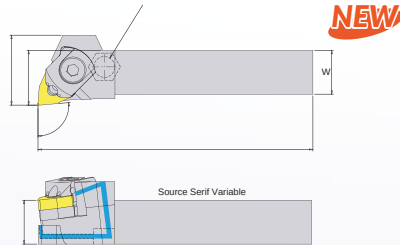
Unit of Length (mm)





Spec.	Layer coated carbide alloy			Micro grain carbide alloy			(mm)			
	CVD			HF			Size			
	RM425	RM315		RM5005			d	i	s	r
WNMG080404-GM2	P M	K					12.7	8.7	4.76	0.4
WNMG080408-GM2	P M	K					12.7	8.7	4.76	0.8
WNMG080404-GS2	P M						12.7	8.7	4.76	0.4
WNMG080408-GS2	P M						12.7	8.7	4.76	0.8
WNMG080408-NA				N			12.7	8.7	4.76	0.8

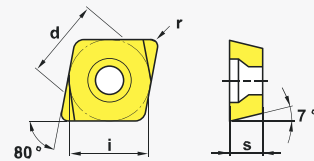
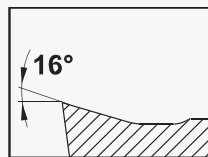
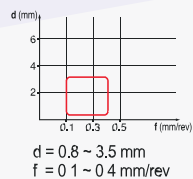
## WWLNR EXTERNAL TURNING TOOL



SPEC.	L	H	W	H1	f	insert	(KGS) Weight
WWLNR-A2020K-08JET	125	20	20	20	25	WN..0804	-
WWLNR-A2525M-08JET	150	25	25	25	32	WN..0804	-

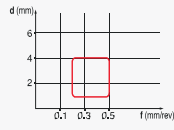
## Accessories

Insert	Shim	Shim Screw	Wrench	(N.m)Torque	Clamp	Clamp Screw	Wrench	(N.m)Torque
WWLNR-A2020K-08JET	WMS432	MLP46	PL2.5	5.0	MC620	MS625	PL3	5.0
WWLNR-A2525M-08JET								

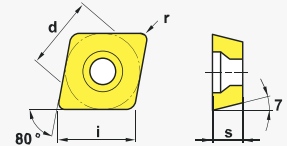
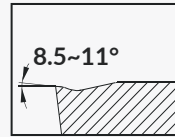


Spec.	Micro grain carbide alloy			(mm)			
	HF			Size			
	RM5005			d	i	s	r
CCGT060202-NK	N			6.35	6.5	2.38	0.2
CCGT060204-NK	N			6.35	6.5	2.38	0.4
CCGT060208-NK	N			6.35	6.5	2.38	0.8
CCGT09T304-NK	N			9.525	9.7	3.97	0.4
CCGT09T308-NK	N			9.525	9.7	3.97	0.8
CCGT120404-NK	N			12.7	12.9	4.76	0.4
CCGT120408-NK	N			12.7	12.9	4.76	0.8

Unit of Length (mm)



d=0.8~3.5mm  
f=0.15(0.20-0.45) mm/rev



Spec.	Layer coated carbide alloy			Cermet			(mm)			
	CVD			HT			Size			
	RM4035			RM1205			d	i	s	r
★ NEW CCMT060202N-F01	Ⓟ						6.35	6.4	2.38	0.2
★ NEW CCMT060204N-F01	Ⓟ						6.35	6.4	2.38	0.4
★ NEW CCMT09T304N-F01	Ⓟ						9.525	9.7	3.97	0.4
★ NEW CCMT09T308N-F01	Ⓟ						9.525	9.7	3.97	0.8
★ NEW CCMT120404N-F01	Ⓟ						12.7	12.9	4.76	0.4
★ NEW CCMT120408N-F01	Ⓟ						12.7	12.9	4.76	0.8
CCMT060204N-M01				Ⓟ	Ⓜ		6.35	6.4	2.38	0.4
CCMT09T304N-M01				Ⓟ	Ⓜ		9.525	9.7	3.97	0.4
CCMT09T308N-M01				Ⓟ	Ⓜ		9.525	9.7	3.97	0.8

★ Recommended, NEW New Prod

## SCLCL INTERNAL TURNING TOOL

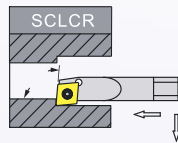
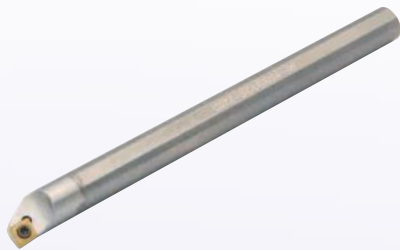


Fig1.

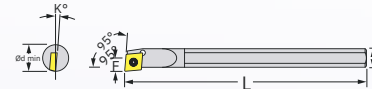
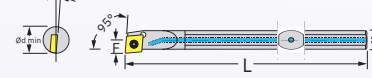
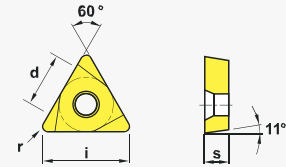
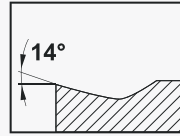
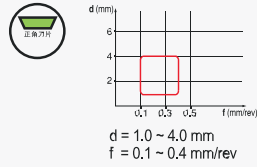
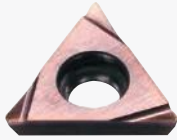


Fig2.



SPEC.	L	D	d	F	insert	Screw	Wrench	(N.m) Torque	Fig.	(KGS) Weight
C08K-SCLCR06-10	125	8	10	5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.11
C10M-SCLCR06-12	150	10	12	6	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-SCLCR06-14	150	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.26
C12Q-SCLCR06-14	180	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C12M-SCLCR09-14	150	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.26
C12Q-SCLCR09-14	180	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.32
C16R-SCLCR09-18	200	16	18	9	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	0.57
C20S-SCLCR09-22	250	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	1	1.04
E08K-SCLCR06-10	125	8	10	5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.11
E10M-SCLCR06-12	150	10	12	6	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-SCLCR06-14	150	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.26
E12Q-SCLCR06-14	180	12	14	7	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	0.32
E14M-SCLCR06-16	150	14	16	7.5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E14Q-SCLCR06-16	180	14	16	7.5	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E16R-SCLCR06-18	200	16	18	9	CC..0602	M2.5-6.0-3.5-60	T8	1.2	2	-
E12M-SCLCR09-14	150	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.26
E12Q-SCLCR09-14	180	12	14	7	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.32
E14M-SCLCR09-16	150	14	16	7.5	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E14Q-SCLCR09-16	180	14	16	7.5	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E16R-SCLCR09-18	200	16	18	9	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	0.57
E20R-SCLCR09-22	200	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	-
E20S-SCLCR09-22	250	20	22	11	CC..09T3	M4-8.0-5.7-60	T15	3.0	2	1.04

Unit of Length (mm)



Spec.	Layer coated micro grain	Cermet	Micro grain carbide alloy	(mm)			
	CHF	HT	HF	Size			
	RM4030	RM1205	RM5005	d	i	s	r
TPGT080202L-F01	□	□ □	□	4.76	8.2	2.38	0.2
TPGT080204L-F01	□	□ □	□	4.76	8.2	2.38	0.4
TPGT090202L-F01	□	□ □	□	5.56	9.6	2.38	0.2
TPGT090204L-F01	□	□ □	□	5.56	9.6	2.38	0.4
TPGT110302L-F01	□	□ □	□	6.35	11	2.38	0.2
TPGT110304L-F01	□	□ □	□	6.35	11	2.38	0.4

## SCLCL INTERNAL TURNING TOOL

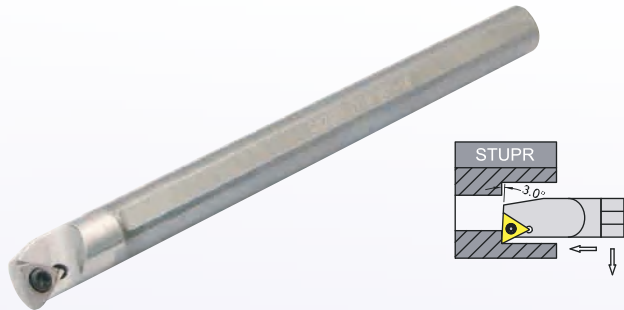


Fig1.

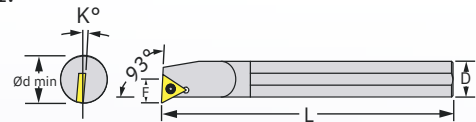
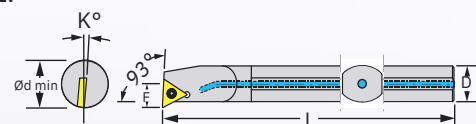



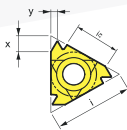

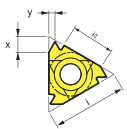

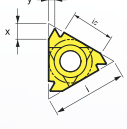

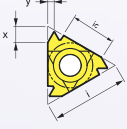

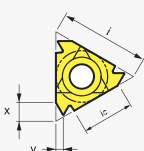
Fig2.



SPEC.	L	D	d	F	insert	Screw	Wrench	(N.m) Torque	Fig.	(KGS) Weight
C08K-STUPR08-10	125	8	10	5.5	TP..0802	M2.2-4.7-3.1-60	T7	0.9	1	0.13
C08K-STUPR09-10	125	8	10	5.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.11
C10M-STUPR09-12	150	10	12	6.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.19
C12M-STUPR09-14	150	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.25
C12Q-STUPR09-14	180	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	1	0.32
C10M-STUPR11-12	150	10	12	6.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.19
C12M-STUPR11-14	150	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.26
C12Q-STUPR11-14	180	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.32
C16R-STUPR11-18	200	16	18	9.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	0.56
C20S-STUPR11-22	250	20	22	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	1	1.09
C20S-STUPR16-25	250	20	25	12.5	TP..1603	M4-8.0-5.7-60	T15	3.0	1	1.10
E08K-STUPR09-10	125	8	10	5.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.11
E10M-STUPR09-12	150	10	12	6.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.19
E12M-STUPR09-14	150	12	14	7.5	TP..0902	M2.5-6.0-3.5-60	T8	1.2	2	0.25
E10M-STUPR11-12	150	10	12	6.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.19
E12M-STUPR11-14	150	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.26
E12Q-STUPR11-14	180	12	14	7.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.32
E14M-STUPR11-16	150	14	16	8.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	-
E16R-STUPR11-18	200	16	18	9.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	0.56
E20R-STUPR11-22	200	20	22	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	-
E20S-STUPR11-22	250	20	22	11.5	TP..1103	M3-8.0-4.0-43	T9	1.4	2	1.09

Unit of Length (mm)

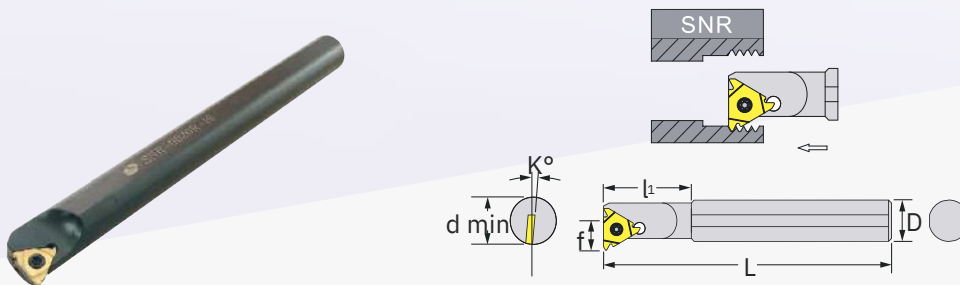


Shape	Spec.	Layer coated micro grain			(mm)				Drawing
		CHF			Size				
		RM325			ic	i	x	y	
	16ERA60	P M			9.525	16	0.8	0.9	
	16ERAG60	P M			9.525	16	1.1	1.5	
	16ERG60	P M			9.525	16	1.2	1.7	
	22ERN60	P M			9.525	16	1.7	2.5	
	16ERA55	P M			9.525	16	0.8	0.9	
	16ERAG55	P M			9.525	16	1.1	1.5	
	16ERG55	P M			9.525	16	1.2	1.7	
	22ERN55	P M			12.7	22	1.7	2.5	
	16ER1.0ISO	P M			9.525	16	0.8	0.7	
	16ER1.25ISO	P M			9.525	16	0.8	0.9	
	16ER1.5ISO	P M			9.525	16	0.8	1.0	
	16ER1.75ISO	P M			9.525	16	1.2	1.2	
	16ER2.0ISO	P M			9.525	16	1.2	1.3	
	16ER2.5ISO	P M			9.525	16	1.2	1.5	
	16ER3.0ISO	P M			9.525	16	1.2	1.5	
	22ER3.5ISO	P M			12.7	22	1.6	2.3	
	22ER4.0ISO	P M			12.7	22	1.6	2.3	
	22ER4.5ISO	P M			12.7	22	1.7	2.4	
22ER5.0ISO	P M			12.7	22	1.7	2.5		
	16ER24UN	P M			9.525	16	0.8	0.8	
	16ER20UN	P M			9.525	16	0.8	0.9	
	16ER18UN	P M			9.525	16	0.8	1.0	
	16ER16UN	P M			9.525	16	0.9	1.1	
	16ER14UN	P M			9.525	16	1.2	1.5	
	16ER12UN	P M			9.525	16	1.2	1.5	
	16ER10UN	P M			9.525	16	1.2	1.5	
	16ER8UN	P M			9.525	16	1.3	1.7	
	11IR1.0ISO	P M			6.35	11	0.8	0.7	
	11IR1.25ISO	P M			6.35	11	0.8	0.9	
	11IR1.5ISO	P M			6.35	11	0.8	1.0	
	11IR1.75ISO	P M			6.35	11	0.9	1.1	
	11IR2.0ISO	P M			6.35	11	0.9	1.1	
	16IR1.0ISO	P M			9.525	16	0.8	0.7	
	16IR1.25ISO	P M			9.525	16	0.8	0.9	
	16IR1.5ISO	P M			9.525	16	0.8	1.0	
	16IR1.75ISO	P M			9.525	16	1.2	1.2	
	16IR2.0ISO	P M			9.525	16	1.2	1.3	
	16IR2.5ISO	P M			9.525	16	1.2	1.5	
	16IR3.0ISO	P M			9.525	16	1.2	1.5	
	22IR3.5ISO	P M			12.7	22	1.6	2.3	
	22IR4.0ISO	P M			12.7	22	1.6	2.3	
	22IR4.5ISO	P M			12.7	22	1.6	2.4	
	22IR5.0ISO	P M			12.7	22	1.6	2.3	

Unit of Length (mm)

Shape	Spec.	Layer coated micro grain			(mm)				Drawing
		CHF			Size				
		RM325			ic	i	x	y	
	11IRA60	□ □			6.35	11	0.8	0.9	
	16IRA60	□ □			9.525	16	0.8	0.9	
	16IRAG60	□ □			9.525	16	1.1	1.5	
	16IRG60	□ □			9.525	16	1.2	1.7	
	22IRN60	□ □			12.7	22	1.7	2.5	
	11IRA55	□ □			6.35	11	0.8	0.9	
	16IRA55	□ □			9.525	16	0.8	0.9	
	16IRAG55	□ □			9.525	16	1.1	1.5	
	16IRG55	□ □			9.525	16	1.2	1.7	
	22IRN55	□ □			12.7	22	1.7	2.5	
	11IR20UN	□ □			6.35	11	0.8	0.9	
	11IR18UN	□ □			6.35	11	0.8	1.0	
	16IR24UN	□ □			9.525	16	0.8	0.8	
	16IR20UN	□ □			9.525	16	0.8	0.9	
	16IR18UN	□ □			9.525	16	0.8	1.0	
	16IR16UN	□ □			9.525	16	0.9	1.1	
	16IR14UN	□ □			9.525	16	1.2	1.5	
	16IR12UN	□ □			9.525	16	1.2	1.5	
	16IR10UN	□ □			9.525	16	1.2	1.5	
	16IR8UN	□ □			9.525	16	1.3	1.7	

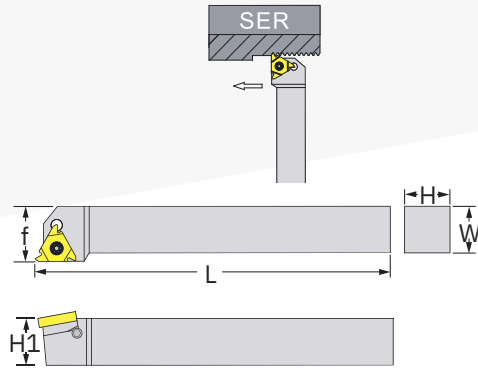
## SNR INTERNAL THREADING TURNING TOOL



SPEC.	L	l1	D	d	F	insert	Screw	Wrench	(N.m) Torque	Shim	Clamp Screw	Clamp Wrench	(N.m) Torque	(KGS) Weight
SNR-0008K-08	125	21	16	11	5.5	08IR	M2.2-5.5-3.4-60	T7	0.9	-	-	-	-	0.18
SNR-0010K-11	125	25	16	13	6.5	11IR	M2.5-7.0-4.5-60	T8	1.2	-	-	-	-	0.19
SNR-0013M-11	150	32	16	16	8	11IR	M2.5-7.0-4.5-60	T8	1.2	-	-	-	-	0.22
SNR-0013M-16	150	32	16	17	8.5	16IR	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.24
SNR-0016Q-16	180	36	16	19	10	16IR	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.30
SNR-0020R-16	200	40	20	24	12	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.50
SNR-0025R-16	200	45	25	29	14.5	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.76
SNR-0032S-16	250	45	32	36	18.5	16IR	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	1.60

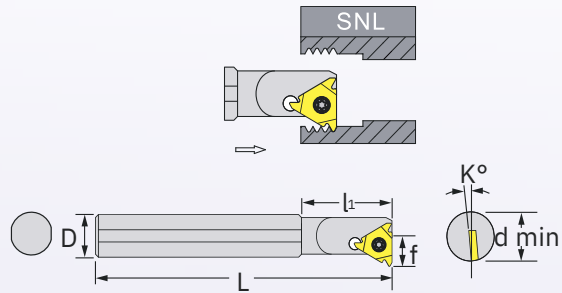
Unit of Length (mm)

## SER EXTERNAL THREADING TURNING TOOL



SPEC.	L	l1	D	d	F	insert	Screw	Wrench	(N.m) Torque	Shim	Clamp Screw	Clamp Wrench	(N.m) Torque	(KGS) Weight
SER-1616K-16	125	16	16	16	20	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.31
SER-2020K-16	125	20	20	20	25	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.45
SER-2525M-16	150	25	25	25	32	16ER	M3.5-11.7-5.3-60	T15	3.0	GXE16	HTM309	PL2.5	5.0	0.82

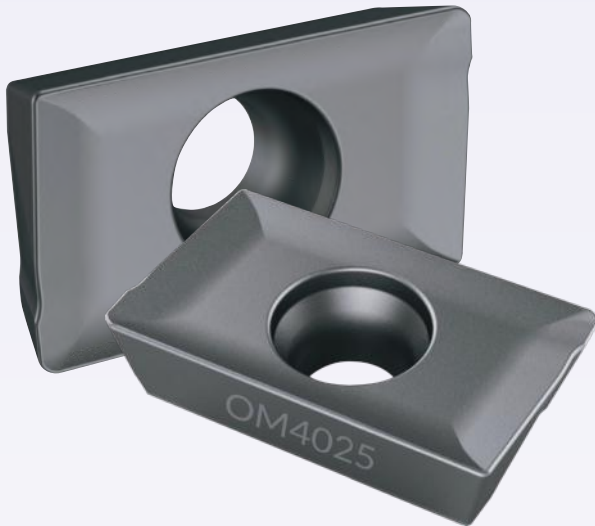
## SNL INTERNAL THREADING TURNING TOOL



SPEC.	L	l1	D	d	F	insert	Screw	Wrench	(N.m) Torque	Shim	Clamp Screw	Clamp Wrench	(N.m) Torque	(KGS) Weight
SNL-0008K-08	125	21	16	11	5.5	08ER	M2.2-5.5-3.4-60	T7	0.9	-	-	-	-	0.19
SNL-0010K-11	125	25	16	13	6.5	11ER	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.19
SNL-0013M-11	150	32	16	16	8	11ER	M2.5-8.0-3.5-60-T8	T8	1.2	-	-	-	-	0.24
SNL-0013M-16	150	32	16	17	8.5	16ER	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.24
SNL-0016Q-16	180	36	16	19	10	16ER	M3.5-9.0-5.3-60	T15	3.0	-	-	-	-	0.30
SNL-0020R-16	200	40	20	24	12	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.51
SNL-0025R-16	200	45	25	29	14.5	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	0.77
SNL-0032S-16	250	45	32	36	18.5	16ER	M3.5-11.7-5.3-60	T15	3.0	GXN16	HTM309	PL2.5	5.0	1.56

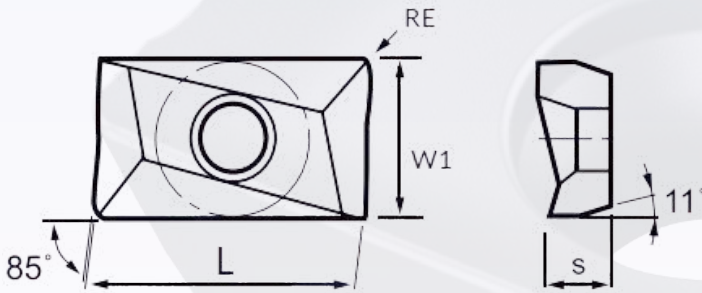
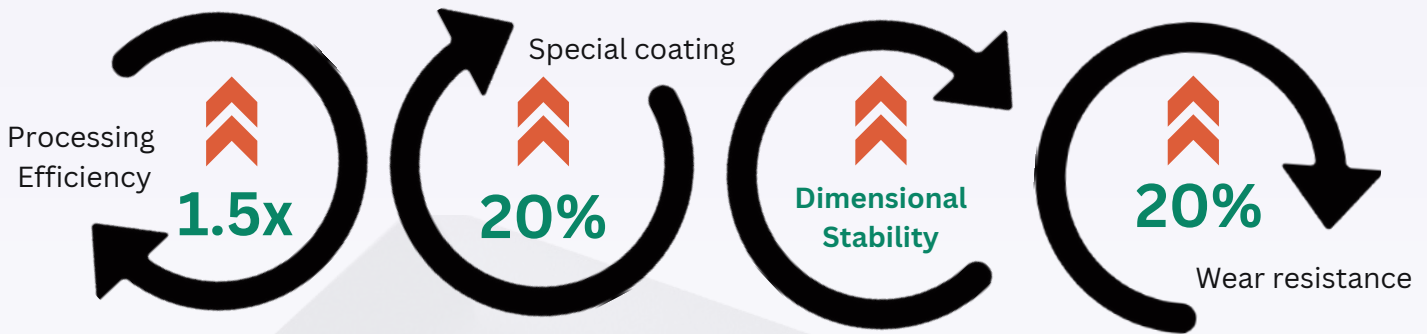
Unit of Length (mm)

# M01-OM4025



## Features

- Using CVD coating, good wear resistance
- High strength super hard alloy
- Excellent collapse resistance and wear resistance



Using CVD coating, it has good wear resistance and can increase processing efficiency by 1.5 times.

Applicable tools: BT/MAS MAS, BGP, IFM, AMC, SCM

Applicable processing material: PMK

Material	Coating color	Coating type	Coating method	Hardness(HV)	Friction coefficient	Withstand temperature (Celsius)
OM4025	Iron gray	TICN	CVD	2000	0.3~0.35	550

Material to be processed	Material	Specification	Cutting speed VC(m/min)	Feed per blade fz(mm/rev)	Size(mm)			
					L	W1	S	RE
P Low-alloy steel	OM4025	APKT160408-M01	220~300	0.14~0.24	16.6	9.525	4.76	0.8
			alloy steel	100~195				
M Stainless steel			180~230	0.15~0.35				
K cast iron			200~300	0.06~0.30				

Unit of Length (mm)

# PCD&CBN Precision Inserts

## PCD

Suitable Materials for PCD



### Micro-diamond

Plastic	Graphite
Brass&Bronze Alloys	Epoxy Resins
Silicon-Aluminum Alloys	Wood / Compound wood
Copper Alloys	Hard Rubber
Magnesium Alloy	Fibre Glass Composites
Aluminum Alloys	Ceramics
Presintered or Sintered Tungsten Carbide	Carbon-Phenolic

## Symbol of Cutting Edge and Cutting Direction

Symbol	Cutting Edge	Shape
F	Sharp Cutting Edges	
E	Round Cutting Edges	
T	Chamfered Cutting Edges	
S	Chamfered and Rounded Cutting Edges	
P	Double Chamfered and Rounded Cutting Edges	

Symbol	Direction
R	Right
L	Left
N	Neutral

## Poly Crystalline Diamond Inserts Cutting Standard

Aluminum 4~8% SI		Aluminum 9~13% SI	
Turning Line speed V 500~1500(m/min) Feed F 0.1~0.4(mm/rev) Cutting depth Ap Ap 0.1~2.0(mm)	Milling Line speed V 500~1500(m/min) Feed F 0.1~0.3(mm/rev) Cutting depth Ap Ap 0.1~2.0(mm)	Turning Line speed V 300~500(m/min) Feed F 0.1~0.4(mm/rev) Cutting depth Ap Ap 0.1~2.0(mm)	Milling Line speed V 300~500(m/min) Feed F 0.1~0.3(mm/rev) Cutting depth Ap Ap 0.1~2.0(mm)
Copper Alloy Copper, zinc, brass		Plastic	
Turning Line speed V 300~1000(m/min) Feed F 0.03~0.3(mm/rev) Cutting depth Ap Ap 0.05~2.0(mm)	Milling Line speed V 300~1000(m/min) Feed F 0.03~0.3(mm/rev) Cutting depth Ap Ap 0.05~2.0(mm)	Turning Line speed V 300~600(m/min) Feed F 0.1~0.2(mm/rev) Cutting depth Ap Ap 0.1~3.0(mm)	Milling Line speed V 1000~5000(m/min) Feed F 0.05~2.0(mm/rev) Cutting depth Ap Ap 0.1~0.4(mm)

# Grain Size & Feature for PCD

## PCD010



Grain Size - 1 $\mu$ m

Ultra diameter, best quality of surface.

- Low silicon aluminium
- processing(electronic products)
- Titanium alloy processing

Ultra fine grain structure allows precisely sharpened and durable cutting edges. It's suitable for excellent quality of surface needed.

Milling and roughing for aluminum material and also can process titanium and titanium alloys and composite material.

## PCD020



Grain Size - 2 $\mu$ m

Ultra diameter, best quality of surface.

- Low silicon aluminum
- processing(electronic products)
- Titanium alloy processing

Excellent quality of surface, it's suitable for high speed continuous processing.

Finishing for non-ferrous, surface milling for press forming, and face milling for ERP, hard rubber, wood, and inorganic plates.

## PCD100



Grain Size - 4 $\mu$ m

excellent quality of surface, suitable for continuous processing.

- <12% silicon aluminium
- Low silicon aluminium processing(electronic products)
- Copper alloy

It remains excellent abrasion resistance, tenacity, and great versatility

Processing for non-ferrous, surface milling for shrink-fitting ceramic and press forming, and face-milling for ERP, hard rubber, graphite, wood, and inorganic plates.

## PCD250



Grain Size - 1 $\mu$ m

High abrasion resistance and specific combination raised the strength of integration.

- >12% silicon aluminium
- Shrink-fitting and non shrink-fitting ceramic
- metal matrix composite (MMC)
- Shrink-fitting hard alloy

High abrasion resistance and specific combination raised the strength of integration.

Processing for silicon aluminum alloys, aluminum composite, cemented carbide, and shrink-fitting semi-ceramic; roughing for press forming, shrink-fitting ceramic, and rock.



# PCD Poly Crystalline Diamond Inserts

Form	Spec.	Boron nitride				(mm)				Drawing
		BN				Size				
		PCD010	PCD020	PCD100	PCD250	d	i	s	r	
	P	Alloyed Steels								Cutting Condition : ● Continuous Cutting ○ General Cutting □ Interrupted Cutting
	M	Stainless Steels								
	K	Cast Iron								
	N	Aluminum&Al	● □	●	□	○				
	S	Refractory Alloys								
H	Hard Material							○		
	TBGW060102FN-F01		●	●		3.97	6.4	1.59	0.2	
	TBGW060104FN-F01		●	●		3.97	6.4	1.59	0.4	
	TCGW110202FN-F01		●	●		6.35	6.5	2.38	0.2	
	TCGW110204FN-F01		●	●		6.35	6.5	2.38	0.4	
	TCGW16T304FN-F01		●	●		6.35	6.5	2.38	0.8	
	TNGA160402FN-F01		●	●		12.7	12.9	4.76	0.4	
	TNGA160404FN-F01		●	●		12.7	12.9	4.76	0.8	
	TPGW090202FN-F01		●	●		6.35	7.8	2.38	0.2	
	TPGW090204FN-F01		●	●		6.35	7.8	2.38	0.4	
	TPGW110302FN-F01		●	●		6.35	7.8	2.38	0.8	
	TPGW110304FN-F01		●	●		9.525	11.6	3.97	0.2	
	TPGW080202FN-F01		●	●		12.7	-	4.76	-	
	TPGW080204FN-F01		●	●		12.7	-	4.76	-	
	VCGW160402FN-F01		●	●		9.525	16.5	4.76	0.2	
	VCGW160404FN-F01		●	●		9.525	16.5	4.76	0.4	
	VCGW160408FN-F01		●	●		9.525	16.5	4.76	0.8	
	APGW160404PDFR-F01		●	●		9.525	16.5	4.76	-	
	APGW1604PDFR-F01		●	●		9.525	16.5	4.76	-	
	SEGW120404AFFN-F01		●	●		12.7	-	4.76	-	
	SEGW1204AFFN-F01		●	●		12.7	-	4.76	-	
	CNGA120404FN-F01		●	●		12.7	12.9	4.76	0.4	
	CCGW060202FN-F01		●	●		6.35	6.5	2.38	0.2	
	CCGW060204FN-F01		●	●		6.35	6.5	2.38	0.4	
	CCGW09T304FN-F01		●	●		9.525	9.7	3.97	0.4	
	CCGW120404FN-F01		●	●		12.7	12.9	4.76	0.4	
	DCGW070202FN-F01		●	●		6.35	7.8	2.38	0.2	
	DCGW070204FN-F01		●	●		6.35	7.8	2.38	0.4	
	DCGW11T302FN-F01		●	●		9.525	11.6	3.97	0.2	
	DCGW11T304FN-F01		●	●		9.525	11.6	3.97	0.4	

Unit of Length (mm)

# CBN

Suitable Materials for CBN



## Coarse and fine particle substrate

Tool steel	Hardened ni cast iron
Cast iron	Cobalt-based alloy
Alloy steel	Epoxy Resins
Chilled cast iron	Nickel-based alloy
Poedered metal with more cobalt	

## Symbol of Cutting Edge and Cutting Direction

Symbol	Cutting Edge	Shape
F	Sharp Cutting Edges	
E	Round Cutting Edges	
T	Chamfered Cutting Edges	
S	Chamfered and Rounded Cutting Edges	
P	Double Chamfered and Rounded Cutting Edges	

Symbol	Direction
R	Right
L	Left
N	Neutral

## Grain Size & Feature for CBN

### CBN250

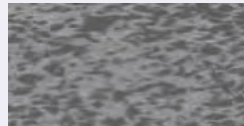


Grain Size 1 $\mu$ m  
Hardness 2400Hv  
Cutting Speed 100~400 Vc(m/min)  
CBN ratio 45%

CBN250 is a general material with high wear resistance and abrasion extending the tool life. Excellent performance on interruptedly cutting gray and hard cast iron, milling of quenched steel, and machining valve seat ring alloys. It is the most common material choice for powder metallurgy

Hardened steel, mild interrupted cutting and high speed continuous turning.

### CBN300



Grain Size 2 $\mu$ m  
Hardness 2400Hv  
Cutting Speed 100~400 Vc(m/min)  
CBN ratio 65%

CBN300 excels with superior particle bonding, making it the top choice for moderate to heavy interrupted turning of hardened steel. Achieving a perfect balance between crater toughness and flank wear resistance, it is ideal for plunge milling valve seat rings.

Hardened steel, heavy interrupted turning and milling application.

### CBN400



Grain Size 3 $\mu$ m  
Hardness 2400Hv  
Cutting Speed 800~220 Vc(m/min)  
CBN ratio 80%

It is suitable for continuous and lightly interrupted cutting of automotive industries. Excellent abrasion resistance makes CBN400 the ideal choice for cold work tool steels and certain valve seat alloys. It is also Recommended for finishing abrasive high strength cast irons.


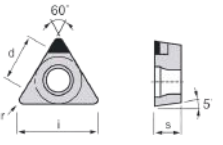

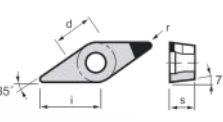

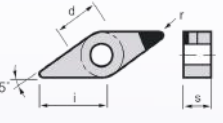
Suitable for cast iron and ferrous powder metallurgy component processing.

# Cubic Boron Nitride Inserts


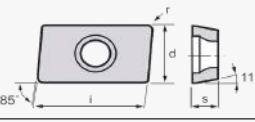

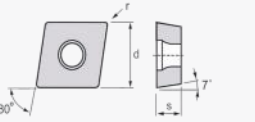

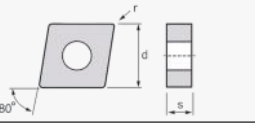
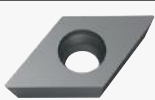
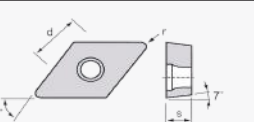
ISO	P	Alloyed Steels				Cutting Condition : ● Continuous Cutting ○ General Cutting □ Interrupted Cutting			
	M	Stainless Steels							
	K	Cast Iron			□				
	N	Aluminum&Al							
S	Refractory Alloys								
H	Hard Material	●		□					
Form	Spec.	Boron nitride			(mm)				Drawing
		BN			Size				
		CBN250	CBN300	CBN400	d	i	s	r	
	APGW1604PDER	●			9.525	16.5	4.76	-	
	APGW1604PDFR	●			9.525	16.5	4.76	-	
	APGW1604PDTR	●			9.525	16.5	4.76	-	
	APGW1604PDSR	●			9.525	16.5	4.76	-	
	CCGW060202SN	●			6.35	6.5	2.38	0.2	
	CCGW060204SN	●			6.35	6.5	2.38	0.4	
	CCGW060208SN	●			6.35	6.5	2.38	0.8	
	CCGW09T302SN	●			9.525	9.7	3.97	0.2	
	CCGW09T304SN	●			9.525	9.7	3.97	0.4	
	CCGW09T308SN	●			9.525	9.7	3.97	0.8	
	CCGW120404SN	●			12.7	12.9	4.76	0.4	
	CNGA120404SN	●			12.7	12.9	4.76	0.4	
	CNGA120408SN	●			12.7	12.9	4.76	0.8	
	DCGW070202SN	●			6.35	7.8	2.38	0.2	
	DCGW070204SN	●			6.35	7.8	2.38	0.4	
	DCGW070208SN	●			6.35	7.8	2.38	0.8	
	DCGW11T302SN	●			9.525	11.6	3.97	0.2	
	DCGW11T304SN	●			9.525	11.6	3.97	0.4	
	SEGW1204AFSN	●			12.7	-	4.76	-	
	SEGW1204AFTN	●			12.7	-	4.76	-	
	SEGW1204AFEN	●			12.7	-	4.76	-	
	SEGW1204AFFN	●			12.7	-	4.76	-	
	TNGA160402SN	●			9.525	16.5	4.76	0.2	
	TNGA160404SN	●			9.525	16.5	4.76	0.4	
	TNGA160408SN	●			9.525	16.5	4.76	0.8	
	TPGW080202SN	●			4.76	8.2	2.38	0.2	
	TPGW080204SN	●			4.76	8.2	2.38	0.4	
	TPGW090202SN	●			5.56	9.6	2.38	0.2	
	TPGW090204SN	●			5.56	9.6	2.38	0.4	
	TPGW110302SN	●			6.35	11	3.18	0.2	
	TPGW110304SN	●			6.35	11	3.18	0.4	
	TPGW110308SN	●			6.35	11	3.18	0.8	
	TPGW16T302SN	●			9.525	16.5	3.97	0.2	
	TPGW16T304SN	●			9.525	16.5	3.97	0.4	

Unit of Length (mm)

# Cubic Boron Nitride Inserts


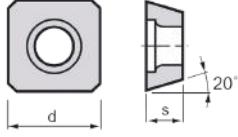

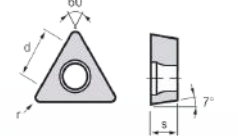

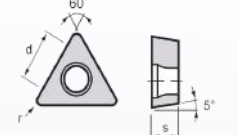

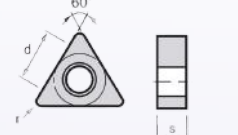



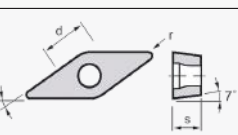
Form	Spec.	Boron nitride			(mm)				Drawing
		BN			Size				
		CBN250			d	i	s	r	
	TBGW060104SN	●			3.97	6.4	1.59	0.4	
	VCGW110302SN	●			6.35	11	3.18	0.2	
	VCGW110304SN	●			6.35	11	3.18	0.4	
	VCGW160402SN	●			9.525	16.5	4.76	0.2	
	VCGW160404SN	●			9.525	16.5	4.76	0.4	
	VCGW160408SN	●			9.525	16.5	4.76	0.8	
	VNGA160404SN	●			9.525	16.5	4.76	0.4	
	VNGA160408SN	●			9.525	16.5	4.76	0.8	

# BM Blank Inserts

Form	Spec.	Carbide			(mm)			Drawing
		HC			Size			
		BM			d	i	s	
	APMW1003	●			7.0	10.85	3.58	
	APMW1604	●			9.9	16.8	5.1	
	CCMW0602	●			6.85	-	2.78	
	CCMW09T3	●			9.9	-	4.27	
	CCMW1204	●			13.1	-	5.1	
	CNMW1204	●			13.1	-	5.1	
	DCMW0702	●			6.85	-	2.78	
	DCMW11T3	●			9.9	-	4.27	

Unit of Length (mm)

# BM Blank Inserts

ISO	P	Alloyed Steels				Cutting Condition :  ● Continuous Cutting  ○ General Cutting  □ Interrupted Cutting		
	M	Stainless Steels						
	K	Cast Iron						
	N	Aluminum&Al						
S	Refractory Alloys							
H	Hard Material							
Form	Spec.	Carbide			(mm)			Drawing
		HC			Size			
		BM			d	i	s	
	SEMW1204	●			13.1	-	5.1	
	TCMW0902	●			5.96	-	2.78	
	TCMW1102	●			6.75	-	2.78	
	TCMW16T3	●			9.9	-	4.27	
	TBMW0601	●			4.27	-	2.0	
	TNMW1604	●			9.9	-	5.1	
	TPMW0802	●			5.1	-	2.78	
	TPMW0902	●			5.96	-	2.78	
	TPMW1103	●			6.75	-	3.58	
	TPMW16T3	●			9.9	-	4.27	
	VCMW1103	●			6.75	-	3.58	
	VCMW1604	●			9.9	-	5.1	

Unit of Length (mm)

# TURNING TOOLS FOR SWISS-TYPE LATHE

# SCCI

3C Industry

Medical Industry

Automotive  
Components Industry

Watch and Clock Industry

- Swiss-type lathe machining involves reciprocating movement of the workpiece along the spindle with the turning tool remaining stationary, and machining through linear motion. Suitable for machining small parts, such as the 3C, medical, watch and clock, and automotive parts industries.

Insert Function	Grooving, Cutoff, Back Turning, Side Turning, and Threading.
Production Equipment	European Fully Automated Equipment
Inspection Equipment	Japanese Optical Inspection Equipment
Quality Accuracy	±0.015mm
Non-standard Customization	1. Special Tool 2. Good Accuracy ±0.005mm





# THREADING INSERTS FOR SWISS-TYPE LATHES



Fig. 1

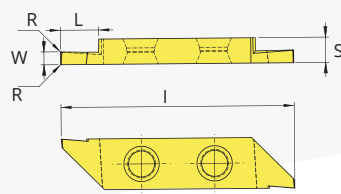
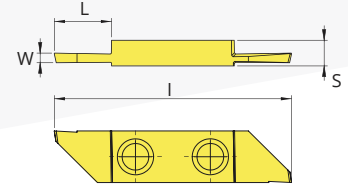
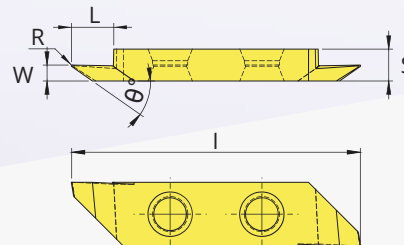


Fig. 2



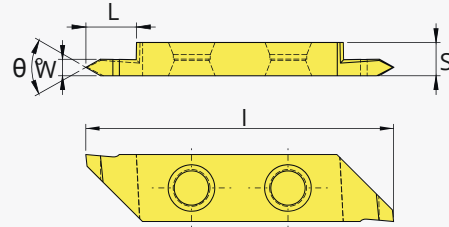
Spec.	Layer coated micro grain		Micro grain carbide alloy		(mm)						
	CHF		HF		Size						
	OM4025	OM5035	OM5005		Fig.	W	R	Depth h	L	I	S
NEW SCCIL375-41002	P K	M	N		1	1	0.2	6	11	37.5	4.0
NEW SCCIR375-41002	P K	M	N		1	1	0.2	6	11	37.5	4.0
NEW SCCIL375-41502	P K	M	N		1	1.5	0.2	8	11	37.5	4.0
NEW SCCIR375-41502	P K	M	N		1	1.5	0.2	8	11	37.5	4.0
NEW SCCIL375-42002	P K	M	N		1	2	0.2	10	11	37.5	4.0
NEW SCCIR375-42002	P K	M	N		1	2	0.2	10	11	37.5	4.0
NEW SCCIL375-42502	P K	M	N		1	2.5	0.2	10	11	37.5	4.0
NEW SCCIR375-42502	P K	M	N		1	2.5	0.2	10	11	37.5	4.0
NEW SCCIL375-43002	P K	M	N		1	3	0.2	10	11	37.5	4.0
NEW SCCIR375-43002	P K	M	N		1	3	0.2	10	11	37.5	4.0
NEW SCCIL375-AD43002	P K	M	N		2	3	0.2	11	11	37.5	4.0

NEW New Product



Spec.	Layer coated micro grain		Micro grain carbide alloy		(mm)							
	CHF		HF		Size							
	OM4025	OM5035	OM5005		W	HF	R	Depth	L	θ	I	S
NEW SCCIL375-BL40502-60	P K	M	N		0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIR375-BL40502-60	P K	M	N		0.5	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIL375-BL41002-60	P K	M	N		1	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIR375-BL41002-60	P K	M	N		1	0.5	0.2	0.1-4.2	11	60°	37.5	4.0
NEW SCCIR375-BL41002-70	P K	M	N		1	0.2	0.2	0.1-4.2	11	70°	37.5	4.0
NEW SCCIL375-BL41002-70	P K	M	N		1	0.2	0.2	0.1-4.2	11	70°	37.5	4.0

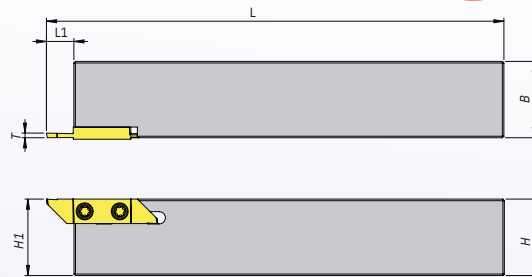
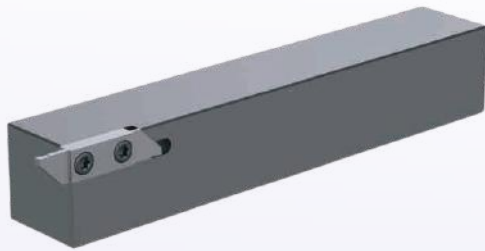
NEW New Product



Spec.	Layer coated micro grain		Micro grain carbide alloy		(mm)					
	CHF		HF		Size					
	OM4025	OM5035	OM5005		W	R	Pitch	θ	I	S
NEW SCCIL375-T42001-A60	P K	M	N		4	0.1	0.4-1.5	60°	37.5	4.0
NEW SCCIR375-T42001-A60	P K	M	N		4	0.1	0.4-1.5	60°	37.5	4.0
NEW SCCIR375-T43002-B60	P K	M	N		6	0.2	1.5-2.5	60°	37.5	4.0
NEW SCCIR375-T43002-B60	P K	M	N		6	0.2	1.5-2.5	60°	37.5	4.0

## SCCI EXTERNAL TURNING TOOL FOR SWISS-TYPE LATHE

**NEW**



SPEC.	B	H (H1)	L	L1	T
SCCIR-1010K-375	10	10	125	9	4
SCCIR-1212K-375	12	12	125	9	4
SCCIR-1212M-375	12	12	150	9	4
SCCIR-1616M-375	16	16	150	9	4
SCCIR-2020K-375	20	20	125	9	4

## SCCI\_375 Cutting Parameter

Machining Materials		Slotting				Plunging			
		Grade	SpeedV c(m/min)	Feed		Grade	SpeedV c(m/min)	Feed	
				h m (mm)				h m (mm)	
				Grooving	Cross feed			Grooving	Cross feed
<b>P</b>	Low-Alloy Steels	OM4025	100-190	0.01-0.03	0.02-0.15	OM4025	80-180	0.02	0.02-0.07
	Alloyed Steels	OM4025	90-140	0.01-0.03	0.02-0.15	OM4025	80-140	0.02	0.02-0.07
<b>M</b>	Stainless Steels	OM5035	70-140	0.01-0.02	0.01-0.1	OM4035	40-130	0.02	0.02-0.05
<b>K</b>	Cast Iron	OM4025	90-200	0.01-0.02	0.01-0.15	OM4025	90-200	0.02	0.02-0.05
<b>N</b>	Non-Ferrous Metals	OM5005	200-500	0.01-0.05	0.02-0.10	OM5005	100-200	0.02	0.02-0.10

- Spindle Speed=(1000× Cutting speed)÷(3.14× Cutter outer diameter).
- Feeding Speed(mm/min)= Feed per Flutes× Flutes× Spindle speed.

Unit of Length (mm)

# External Turning Tools with Double Internal Coolant Holes

## Double Internal Coolant Holes Design

Improved the efficiency of chips removal and processing speed.  
 Extend the lifespan of cutting tools & machines.



Able to install 20BAR high-pressure pumps.  
 Strong water pressure reached high efficiency on chips removal.

TERMS	Standard water pressure	Standard water pressure	20BAR high pressure pump
FUTURES	General tool	Cutter with double coolant holes	Cutter with double coolant holes
Tool lifespan	★	★ ★ ★	★ ★ ★ ★ ★ ★
Processing efficiency	★	★ ★ ★	★ ★ ★ ★ ★ ★

20% higher efficiency is increased without purchasing new machines.

## AUTOCAMIN

Research and Technology Pvt. Ltd



### TOOLS

We offer a comprehensive range of tools and Toolpath Design tailored to your CNC machine operations, meeting your specific requirements.



### SolidCAM

SolidCAM, a leading Integrated CAM solution, is widely recognized for its powerful and effective integration. Additionally, we offer sales and support services for **SolidWorks** and **Solid Edge**.



### OCTOPUZ

Octopuz, a versatile Robot Programming Software, provides efficient and precise solutions for industrial automation, enhancing our services.



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