



COWEE CUTTING INSERT

GOWEE CUTTING INSERT



ZHUZHOU COWEE CUTTING TOOLS CO., LTD

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www.cowee.vip

COMPANY PROFILE

Zhuzhou Cowee Cutting Tools Co., Ltd. is a professional manufacturer and supplier of metalworking Tools. The company provides high-performance standard products and special customized products, which can fully meet the various application requirements of global customers in industries such as metal processing, aerospace, and mold. The company pursues responsible and sustainable business behavior, adhering to the cooperation philosophy of honesty and trustworthiness towards customers, and always ensuring the delivery of high-performance products with consistent quality to customers.



HIGH QUALITY ASSURANCE

Cowee Owns a complete CNC insert production line, it including raw materials spraying treatment, mold making, deep processing, coating, etc. we are committed to research and development on Solutions of high-performance CNC cutting tools.

We are Equipped with some worlds top brand of precision high-end equipment, such as OSTERWALDER multi-axis electric press, CNC peripheral grinder, Balzer coating furnace.

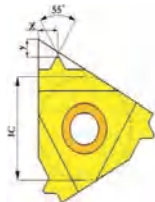
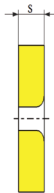
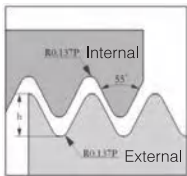
Cowee adopts automatic numerical control equipment for raw material preparation, pressing, sintering, coating and products inspection.

We also have the advanced equipment' s like Mikron machining center and leading coating processing and world-class quality control system to ensure the good quality of our carbide insert.

We are aiming to provide the high-quality CNC cutting tools and improve the production efficiency to users and fully meet the strict requirements on insert quality.

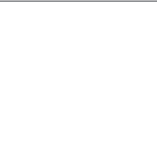


American Standard Taper Piper Thread



Standard: USAS B.21:1968
Tolerance class: NPT

★ With End

Shape	Type	Range of thread pitch		Insert Dimestions(mm)				Coating	
		mm	pitch/inch	IC	S	X	Y	GW8251	GW5201
	16ER8NPT		8	9.525	3.52	1.8	1.3	◆	◇
	16ER11.5NPT		11.5	9.525	3.52	1.5	1.1	◆	◇
	16ER14NPT		14	9.525	3.52	1.2	0.9	◆	◇
	16ER18NPT		18	9.525	3.52	1	0.8	◆	◇
	16ER27NPT		27	9.525	3.52	0.8	0.7	◆	◇
	16IR8NPT		8	9.525	3.52	1.8	1.3	◆	◇
	16IR11.5NPT		11.5	9.525	3.52	1.5	1.1	◆	◇
	16IR14NPT		14	9.525	3.52	1.2	0.9	◆	◇
	16IR18NPT		18	9.525	3.52	1	0.8	◆	◇
	16IR27NPT		27	9.525	3.52	0.8	0.7	◆	◇
									

GW
CUTTING TOOLS
MILLING INSERTS





Recommendation of Milling Grade

ISO	Classification	CVD			PVD		
P Steel	01						
	10				GW0151		
	20					GW8251	
	30						GW0251
	40						
M Stainless Steel	01						
	10						
	20				GW8241	GW8251	
	30						GW5251
	40						
K Cast Iron	01						
	10	GW0203			GW0151		
	20					GW8251	
	30		GW0403				GW5251
	40						
S Heat Resistant Alloy	01						
	10						
	20				GWR0101		
	30					GWR5201	GWR5251
	40						GWR0291

Recommendation of Inserts and Chip Breakers

Should Milling Inserts						
	APMT-XR	APMT-GM	APMT-M2	APMT-H2	ADMT-JT	TPKT
Length	11、16	11、16	11、16	11、16	11	04-19
Page	B-5	B-5	B-6	B-6	B-7	B-8
Double-side Should Milling Inserts						
	ANMX	ANKT-M	LNGU-GM	WNMU-GM	XNEX-GL/GM	
Length	11、15	04、06、09、11	11	05、08	08	
Page	B-9	B-10	B-11	B-11	B-12	
Profile Milling Inserts						
	RPMW	RPMT-JM	RPMT-GM	RDKT	RPMT-XR	RPMT
Length	08、10、12	08、10、12、16	08、10、12	08-20	08、10、12	08、10、12
Page	B-13	B-13	B-14	B-15	B-16	B-17
Single-side High Feed Milling Inserts						
	EPNW-GH	LPGT-GM	SDMT-GM	SDMT-GH	SOMT-GM	SOMT-GH
Length	06	01	12、15	06-15	10	14
Page	B-18	B-18	B-19	B-19	B-20	B-20
Double-side High Feed Milling Inserts				45°Face Milling Inserts		
	LNMU-GM	LOGU-MM	BLMP-GM		SEMT-GM	SEER-GM
Length	03	03	04-11	Length	12	12、15
Page	B-21	B-21	B-22	Page	B-27	B-27

Super Alloy Titanium Alloy					
	RPHX-DF	RPHX-DM	APMT-DF	SDMT-DM	LNMU-MS
Length	10、12	10、12	11、16	06、09	03
Page	B-24	B-24	B-25	B-25	B-26
Double-side Cost-effective Face Milling Inserts					
	SNMU-GM	SNMX-GM	SNGX-GF	PNCU-GM	HNMG-R
Length	13	12、16	09	09	09
Page	B-28	B-29	B-29	B-30	B-31
Double-side Cost-effective Face Milling Inserts					
	HNMG-M	XNMU-MM	XNMU-GR	ONHU-AR	ONHU-AF
Length	09	07	09	05	05
Page	B-31	B-32	B-32	B-33	B-33
Double-side Cost-effective Face Milling Inserts		Helix Milling Inserts			
	ONMU-GM/GR		APKT-PM/KM	SP-KM	SP-PM
Length	09	Length	15	12	12
Page	B-34	Page	B-35	B-35	B-35

Helical Milling Inserts			
	CNHX	LNKT	LNKX
Length	16	16	12
Page	B-36	B-36	B-37

Milling Insert Code Key

			B	Y	N		N	N	N	
			H	Y	Single		R	N	Single	
			C	Y	N		F	N	Double	
			J	Y	Double		A	Y	N	
			W	Y	N		M	Y	Single	
			T	Y	Single		G	Y	Double	
			Q	Y	N		X	---	---	Special Type
			U	Y	Double					
1.Shape			4.Chip Breaker and Hole							
			Code	Center Hole	Chip Breaker	Insert Profile	Code	Center Hole	Chip Breaker	Insert Profile

A

P

M

T

2.Clearance Angle			
Code	Clearance Angle	Code	Clearance Angle
A		B	
C		D	
E		F	
G		N	
P		O	Others

3.Tolerance										
Code	m (mm)	d=I.C	S (mm)	Inscribed Circle	Regular Triangle	Square	80° Rhombus	55° Rhombus	35° Rhombus	
A	±0.005	±0.025	±0.025	6.35	±0.08	±0.08	±0.08	±0.11	±0.16	---
F	±0.005	±0.013	±0.025	9.525	±0.08	±0.08	±0.08	±0.11	±0.16	---
C	±0.013	±0.025	±0.025	12.7	±0.13	±0.13	±0.13	±0.15	---	---
H	±0.013	±0.013	±0.025	15.875	±0.15	±0.15	±0.15	±0.18	---	---
E	±0.025	±0.025	±0.025	19.05	±0.15	±0.15	±0.15	±0.18	---	---
G	±0.025	±0.025	±0.13	25.4	---	±0.18	---	---	---	---
J	±0.005	±0.05±0.13	±0.025	♦ Tolerance of Inscribed Circle(mm)						
K	±0.013	±0.05±0.13	±0.025	Inscribed Circle	Regular Triangle	Square	80° Rhombus	55° Rhombus	35° Rhombus	
L	±0.025	±0.05±0.13	±0.025	6.35	±0.05	±0.05	±0.05	±0.05	±0.05	---
M	±0.08±0.18	±0.05±0.13	±0.13	9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
N	±0.08±0.18	±0.05±0.13	±0.025	12.7	±0.08	±0.08	±0.08	±0.08	---	±0.08
U	±0.13±0.38	±0.08±0.25	±0.13	15.875	±0.10	±0.10	±0.10	±0.10	---	±0.10
				19.05	±0.10	±0.10	±0.10	±0.10	---	±0.10
				25.4	---	±0.13	---	---	---	±0.13

32.00			32				
31.75			31				
25.40			25	25			
25.00	25	25	25				
20.00			20				
19.05	19		19	19	33		
16.00		19	16				
15.875	16		15	16	27		
12.70	12	15	12	12	22	22	08
12.00			12				
10.00			10				
9.525	09	11	09	09	16	16	06
8.00			08				
6.35	06	07			11	11	
6.00			06				
5.56					09		
5.50			05				
3.97					06		
Inscribed Circle diameter (mm)							
Insert Shape							
5.Cutting Edge Length							

12	12.70
10	11.11
T9	9.72
09	9.52
07	7.94
T6	6.75
06	6.35
05	5.56
T4	4.96
04	4.76
T3	3.97
03	3.18
T2	2.78
02	2.38
T1	1.98
01	1.59
T0	0.99
00	0.79
Code	Thickness(mm)
	
6.Thickness	

16

05

PD

E

R

GM

7.Approach angle/Relief angle			
			
A	45°	A	3°
D	60°	B	5°
E	75°	C	7°
F	85°	D	15°
P	90°	E	20°
Z	other	F	25°
		G	30°
		N	0°
		P	11°
		Z	other

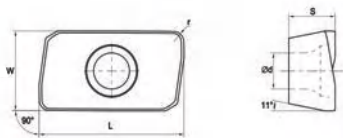
8.Cutting Edge Code			
			
F	0-5°	0-0.10	k(or no code)
E	1-10°	1-0.15	P
T	2-15°	2-0.20	W
S	3-20°	3-0.25	Q
	4-25°	4-0.30	
	5-30°	5-0.35	
	1-10°	6-0.40	
	1-10°	7-0.45	

9.Chip Breaker

10.Cutting Direction Code

R	Right
L	Left
N	Neutral

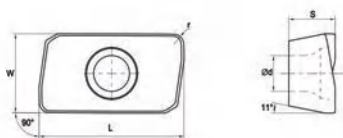
AP□□ Inserts



Length	Size(mm)			
	L	W	S	r
11	11.35	6.2	3.5	0.8
16	17.35	9.3	5.26	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	APMT1135PDER-XR	2.50-7.50	0.05-0.25			◆	◆	◇	◆	◆	◇				
	APMT1605PDER-XR	3.50-10.00	0.07-0.50			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

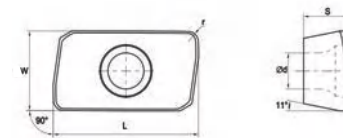


Length	Size(mm)			
	L	W	S	r
11	11.35	6.2	3.5	0.8
16	17.35	9.3	5.26	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWR0101	GWR5201	GWR5251	GWR0291
	APMT1135PDER-GM	2.50-7.50	0.05-0.25			◆	◆	◇	◆	◆	◇				
	APMT160408PDER-GM	3.50-10.00	0.07-0.50			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

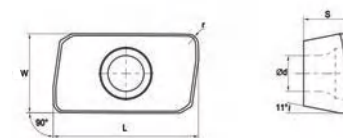
AP□□ Inserts



Length	Size(mm)			
	L	W	S	r
11	11.35	6.2	3.5	0.8
16	17.35	9.2	4.76	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	APMT1135PDER-M2	2.50-7.50	0.05-0.25			◆	◆	◇	◆	◆	◇				
	APMT160408PDER-M2	3.50-10.00	0.07-0.30			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

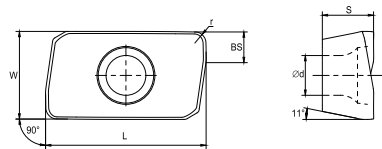


Length	Size(mm)			
	INSL	W	S	r
11	11.35	6.2	3.5	0.8
16	17.35	9.2	4.76	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWR0101	GWR5201	GWR5251	GWR0291
	APMT1135PDER-H2	2.50-7.50	0.05-0.25			◆	◆	◇	◆	◆	◇				
	APMT160408PDER-H2	3.50-10.00	0.07-0.30			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

AD□□ Inserts

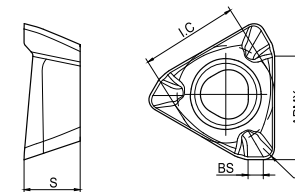


Length	Size(mm)				
	L	W	S	BS	r
11	11	6.7	3.8	1.4-2.1	0.2-1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW80101	GW85201	GW85251	GW80291
	ADMT11T302ER-JT	2.0-6.0	0.06-0.15			◇	◆	◇	◆	◆	◇				
	ADMT11T304ER-JT	2.2-8.0	0.08-0.15			◇	◆	◇	◆	◆	◇				
	ADMT11T308ER-JT	2.5-10.0	0.10-0.18			◇	◆	◇	◆	◆	◇				
	ADMT11T312ER-JT	2.8-10.0	0.08-0.2			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

TP□□ Inserts

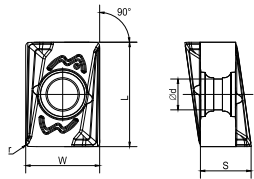


Length	Size(mm)				
	IC	S	APMX	BS	r
4	3.9	2.1	3.5	0.5-0.7	0.2-0.4
6	5.3	2.8	4.7	0.6-1.2	0.2-0.8
10	6.9	4	7	0.5-1.3	0.4-1.6
15	10.7	5	11	0.5-2.0	0.4-2.4
19	13.5	6	15	0.5-2.0	0.4-3.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW80101	GW85201	GW85251	GW80291
	TPMT040202R-M	0.50-3.00	0.04-0.08			◇	◆	◇	◆	◆	◇				
	TPMT040204R-M	0.50-3.00	0.04-0.08			◇	◆	◇	◆	◆	◇				
	TPMT060302R-M	1.00-4.00	0.04-0.10			◇	◆	◇	◆	◆	◇				
	TPMT060304R-M	1.00-4.00	0.04-0.10			◇	◆	◇	◆	◆	◇				
	TPMT060308R-M	1.00-4.00	0.04-0.10			◇	◆	◇	◆	◆	◇				
	TPMT100404R-M	2.00-6.00	0.05-0.12			◇	◆	◇	◆	◆	◇				
	TPMT100408R-M	2.00-6.00	0.05-0.12			◇	◆	◇	◆	◆	◇				
	TPMT100416R-M	2.00-6.00	0.05-0.12			◇	◆	◇	◆	◆	◇				
	TPMT150508R-M	3.00-9.00	0.07-0.17			◇	◆	◇	◆	◆	◇				
	TPMT150516R-M	3.00-9.00	0.07-0.17			◇	◆	◇	◆	◆	◇				
	TPMT150524R-M	3.00-12.00	0.07-0.17			◇	◆	◇	◆	◆	◇				
	TPMT190608R-M	4.50-12.00	0.09-0.22			◇	◆	◇	◆	◆	◇				
	TPMT190616R-M	4.50-12.00	0.09-0.22			◇	◆	◇	◆	◆	◇				
	TPMT190624R-M	4.50-12.00	0.09-0.22			◇	◆	◇	◆	◆	◇				
	TPMT190632R-M	4.50-12.00	0.09-0.22			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

AN□□ Inserts

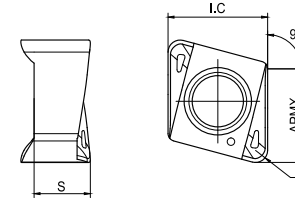


Length	Size(mm)					
	L	W	S	APMX	BS	r
11	11.85	8.4	5.7			0.4-0.8
15	15.430	11	7.3			0.8-1.6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW80101	GW85201	GW85251	GW80291
	ANMX110504PNR	2.00-9.00	0.10-0.20			◇	◆	◇	◆	◆	◇				
	ANMX110508PNR	3.00-9.00	0.10-0.20			◇	◆	◇	◆	◆	◇				
	ANMX150608PNR	4.50-12.00	0.10-0.20			◇	◆	◇	◆	◆	◇				
	ANMX150616PNR	5.00-12.00	0.10-0.20			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

AN□□ Inserts

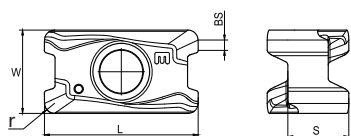


Length	Size(mm)				
	IC	S	APMX	BS	r
4	4	3.1	3.5	-	0.2-0.8
6	6.6	4.2-5.0	5.8-6.2	0.6-1.0	0.4-2.0
9	8.6	5.7-6.3	8	0.8-1.2	0.4-1.6
11	10.7	8.1	10.5	1	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW80101	GW85201	GW85251	GW80291
	ANKT040202R-M	0.50-3.00	0.04-0.08			◇	◆	◇	◆	◆	◇				
	ANKT040204R-M	1.00-3.00	0.06-0.12			◇	◆	◇	◆	◆	◇				
	ANKT040208R-M	1.00-3.00	0.06-0.12			◇	◆	◇	◆	◆	◇				
	ANKT060304R-M	0.50-5.00	0.07-0.15			◇	◆	◇	◆	◆	◇				
	ANKT060308R-M	1.00-5.00	0.07-0.15			◇	◆	◇	◆	◆	◇				
	ANKT060312R-M	1.00-5.00	0.07-0.15			◇	◆	◇	◆	◆	◇				
	ANKT060316R-M	2.00-4.50	0.07-0.15			◇	◆	◇	◆	◆	◇				
	ANKT060320R-M	2.00-4.50	0.07-0.15			◇	◆	◇	◆	◆	◇				
	ANKT090408R-M	2.50-7.00	0.07-0.15			◇	◆	◇	◆	◆	◇				
	ANKT090416R-M	2.50-7.00	0.07-0.15			◇	◆	◇	◆	◆	◇				
	ANKT110608R-M	3.50-10.0	0.09-0.15			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

LN□□ Inserts

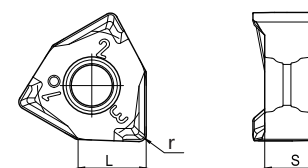


Length	Size(mm)				
	L	S	W	BS	r
11	12.16	4.83	6.6	1.4	0.4-1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWRF0101	GWRF5201	GWRF5251	GWRF0291
	LNGU110404ERGE-GM	apmax=10	0.50-1.50			◇	◆	◇	◆	◆	◇				
	LNGU110408ERGE-GM	apmax=10	0.50-1.50			◇	◆	◇	◆	◆	◇				
	LNGU110412ERGE-GM	apmax=10	0.50-1.50			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

XN□□ Inserts

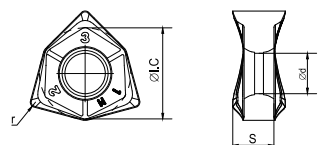


Length	Size(mm)	
	L	S
08	7.5	6.45

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWRF0101	GWRF5201	GWRF5251	GWRF0291
	XNEX080608TR-GL	0.80-8.00	0.10-0.30			◇	◆	◇	◆	◆	◇				
	XNEX080612TR-GL	0.80-8.00	0.10-0.30			◇	◆	◇	◆	◆	◇				
	XNEX080608TR-GM	0.80-8.00	0.10-0.30			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

WN□□ Inserts

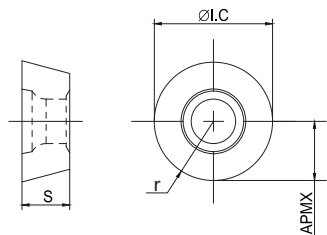


Length	Size(mm)		
	S	d	r
5	4.2	3.4	0.8
8	6.65	6.2	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWRF0101	GWRF5201	GWRF5251	GWRF0291
	WNMU050408EN-GM	0.50-5.00	0.10-0.30			◇	◆	◇	◆	◆	◇				
	WNMU080608EN-GM	0.80-8.00	0.10-0.30			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

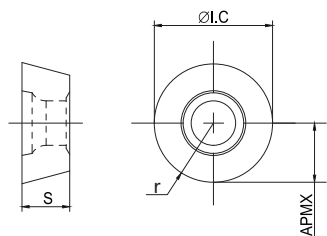
RP□□ Inserts



Length	Size(mm)			
	r	I.C	S	APMX
8	4	8	2.78	4
10	5	10	3.18	5
12	6	12	4.76	6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW80101	GW85201	GW85251	GW80291
	RPMW08T2MO	1.00–3.00	0.05–0.25			◇	◆	◇	◆	◆	◇				
	RPMW1003MO	1.50–4.00	0.05–0.30			◇	◆	◇	◆	◆	◇				
	RPMW1204MO	1.50–5.00	0.05–0.35			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

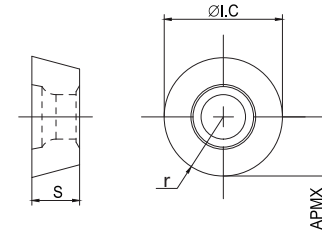


Length	Size(mm)			
	r	I.C	S	APMX
8	4	8	2.78	4
10	5	10	3.97	5
12	6	12	4.76	6
16	8	16	6.35	8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW80101	GW85201	GW85251	GW80291
	RPMT08T2MOE-JM	1.00–1.30	0.05–0.25			◇	◆	◇	◆	◆	◇				
	RPMT10T3MOE-JM	1.50–4.00	0.05–0.30			◇	◆	◇	◆	◆	◇				
	RPMT1204MOE-JM	1.50–5.00	0.05–0.35			◇	◆	◇	◆	◆	◇				
	RPMT1606MOE-JM	2.00–6.50	0.10–0.40			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

RP□□ Inserts

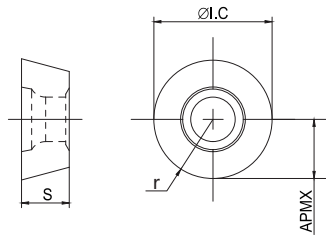


Length	Size(mm)			
	r	I.C	S	APMX
8	4	8	2.78	4
10	5	10	3.18	5
12	6	12	4.76	6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW80101	GW85201	GW85251	GW80291
	RPMT08T2MO-GM	1.50–4.00	0.10–0.30			◇	◆	◇	◆	◆	◇				
	RPMT10T3MO-GM	1.80–5.00	0.10–0.50			◇	◆	◇	◆	◆	◇				
	RPMT1204MO-GM	2.00–6.50	0.10–0.50			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

RD□□ Inserts

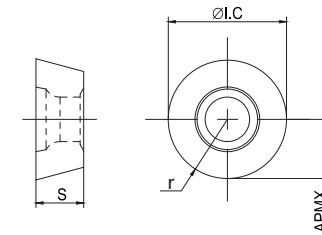


Length	Size(mm)			
	r	I.C	S	APMX
8	4	8	3.18	4
10	5	10	3.97	5
12	6	12	4.76	6
16	8	16	5.56	8
20	10	20	6.35	10

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	RDKT0803MO	1.00–3.00	0.05–0.25			◇	◆	◇	◆	◆	◇				
	RDKT10T3MO	1.50–4.00	0.05–0.30			◇	◆	◇	◆	◆	◇				
	RDKT1204MO	1.50–5.00	0.05–0.35			◇	◆	◇	◆	◆	◇				
	RDKT1604MO	2.00–6.50	0.10–0.40			◇	◆	◇	◆	◆	◇				
	RDKT1605MO	2.00–6.50	0.10–0.40			◇	◆	◇	◆	◆	◇				
	RDKT1606MO	2.00–6.50	0.10–0.40			◇	◆	◇	◆	◆	◇				
	RDKT2006MO	3.00–8.00	0.10–0.40			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

RP□□ Inserts

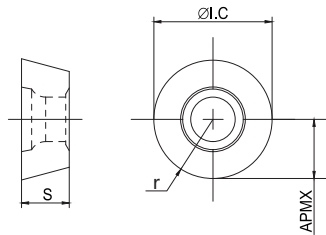


Length	Size(mm)			
	r	I.C	S	APMX
8	4	8	2.78	4
10	5	10	3.97	5
12	6	12	4.76	6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	RPMW0803-XR	1.00-1.30	0.05-0.25			◇	◆	◇	◆	◆	◇				
	RPMW10T3-XR	1.50-4.00	0.05-0.30			◇	◆	◇	◆	◆	◇				
	RPMW1204-XR	1.50-5.00	0.05-0.35			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

RP□□ Inserts

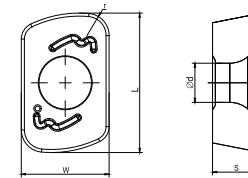


Length	Size(mm)			
	r	I.C	S	APMX
8	4	8	2.78	4
10	5	10	3.97	5
12	6	12	4.76	6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	RPMT08T2MO	1.5-4.0	0.1-0.3			◆	◆	◆	◆	◆	◆				
	RPMT10T3MO	1.8-5.0	0.1-0.5			◆	◆	◆	◆	◆	◆				
	RPMT1204MO	2-6.5	0.1-0.5			◆	◆	◆	◆	◆	◆				

Note: ◆ Recommended grade ready to stock

EP□□ Inserts

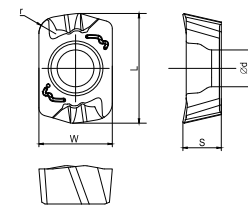


Size(mm)				
W	S	d	L	r
6.28	3.18	2.8	9.79	1.6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	EPNW0603TN-GH	apmax=1.5	0.15-0.50			○	●	○	●	●	○				

Note: ◆ Recommended grade ready to stock

LP□□ Inserts

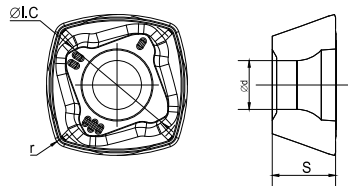


Size(mm)				
W	S	d	L	r
4.19	2.19	2.1	6.26	1

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	LPGT010210ER-GM	apmax=1	0.50-1.50			○	●	○	●	●	○				

Note: ◆ Recommended grade ready to stock

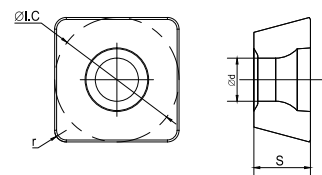
SD□□ Inserts



Length	Size(mm)		
	I.C	S	r
12	12.7	5.56	1.2
15	15.875	5.56	1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SDMT120512-GM	0.50-2.00	0.60-1.20			◇	◆	◇	◆	◆	◇				
	SDMT150512-GM	0.80-3.00	0.60-1.20			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

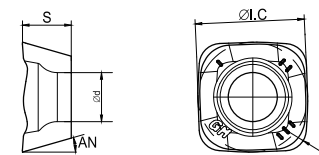


Length	Size(mm)		
	I.C	S	r
6	6.35	2.58	0.8
9	9.525	3.97	1.2
12	12.7	4.76	1.2
15	15.875	5.56	2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SDMT06T208-GH	0.50-1.20	0.50-1.00			◇	◆	◇	◆	◆	◇				
	SDMT09T312-GH	0.50-1.80	0.50-1.00			◇	◆	◇	◆	◆	◇				
	SDMT120412-GH	0.50-2.00	0.60-1.20			◇	◆	◇	◆	◆	◇				
	SDMT150520-GH	0.80-3.00	0.60-1.20			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

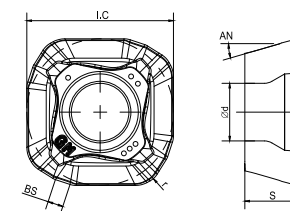
SO□□ Inserts



Length	Size(mm)				
	I.C	S	d	r	AN(°)
10	10.3	4.58	4.6	2	16

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SOMT100420ER-GM	0.10-1.20	0.20-2.00			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

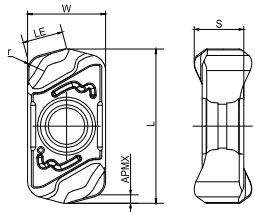


Length	Size(mm)					
	I.C	S	d	BS	r	AN(°)
14	14.76	5.56	5.8	1.6	2	16

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SOMT140520ER-GH	0.50-2.00	0.42-2.00			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

LN□□ Inserts

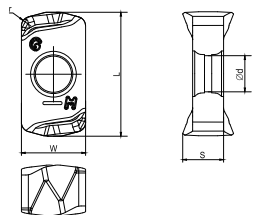


Length	Size(mm)				
	r	APMX	L	I.C	S
3	1.2	1	3.2	6	4.3

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	LNMU0303ZER-GM	0.20-2.00	0.50-1.30			◆	◆	◆	◆	◆	◆				

Note: ◆ Recommended grade ready to stock

LO□□ Inserts

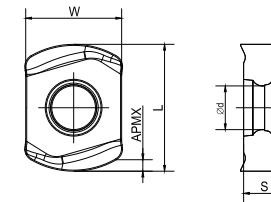


Length	Size(mm)				
	W	S	d	L	r
3	6.2	3.96	3.45	11.9	1

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	LOGU030310ER-GM	apmax=1	0.50-1.50			◆	◆	◆	◆	◆	◆				

Note: ◆ Recommended grade ready to stock

BL□□ Inserts



Length	Size(mm)			
	L	W	S	APMX
4	6	4.2	2.5	0.5
6	9	6.39	3.73	1
9	11.9	9.18	4.8	1.5
11	14.6	11.2	6.5	2

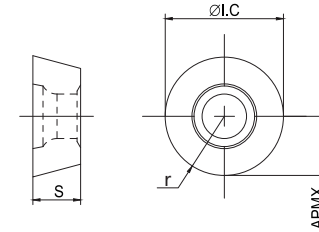
Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	BLMP0402R-GM	0.10-0.50	0.20-1.50			◆	◆	◆	◆	◆	◆				
	BLMP0603R-GM	0.10-1.00	0.30-2.50			◆	◆	◆	◆	◆	◆				
	BLMP0904R-GM	0.10-1.50	0.30-3.50			◆	◆	◆	◆	◆	◆				
	BLMP1105R-GM	0.30-2.00	0.30-4.00			◆	◆	◆	◆	◆	◆				

Note: ◆ Recommended grade ready to stock

GW
CUTTING TOOLS
HEAT RESISTANT ALLOYS /
TITANIUM ALLOYS



RP□□ Inserts

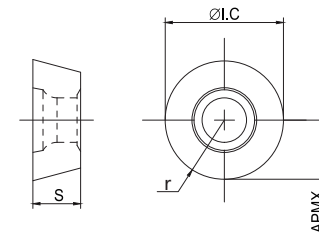


Length	Size(mm)			
	r	I.C	S	APMX
10	5	10	3.18	5
12	6	12	4.76	6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD						
				GW0203	GW0403	GW8241	GW8251	GW5281	GW0101	GW5201	GW5251	GW0291
	RPHX10T3-DF	1.50-4.00	0.05-0.30			◇		◇		◆	◆	
	RPHX1204-DF	1.50-5.00	0.05-0.35			◇		◇		◆	◆	

Note: ◆ Recommended grade ready to stock

RP□□ Inserts

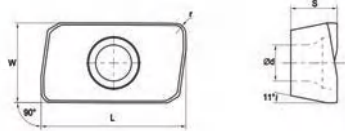


Length	Size(mm)			
	r	I.C	S	APMX
10	5	10	3.18	5
12	6	12	4.76	6

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD						
				GW0203	GW0403	GW8241	GW8251	GW5281	GW0101	GW5201	GW5251	GW0291
	RPHX10T3-DM	1.80-5.00	0.10-0.50			◇		◇		◆	◆	
	RPHX1204-DM	2.00-6.50	0.10-0.50			◇		◇		◆	◆	

Note: ◆ Recommended grade ready to stock

AP□□ Inserts

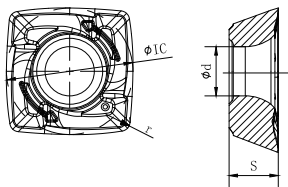


Length	Size(mm)			
	L	W	S	r
11	11.4	6.2	3.5	0.8
16	17.25	9.2	4.76	0.8、3

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD						
				GW0203	GW0403	GW8241	GW8251	GW5281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	APMT1135PDER-DF	2.5-7.5	0.05-0.25			◇		◇		◆	◆	
	APMT160408PDER-DF	3.5-10	0.07-0.5			◇		◇		◆	◆	
	APMT160430PDER-DF	5.0-10	0.2-0.5			◇		◇		◆	◆	

Note: ◆ Recommended grade ready to stock

SD□□ Inserts

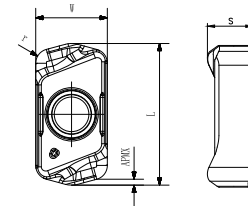


Length	Size(mm)		
	I.C	S	r
6	6.35	2.78	0.5
9	9	3.5	0.7

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD						
				GW0203	GW0403	GW8241	GW8251	GW5281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SDMT06T205-DM		0.1-1.0			◇		◇		◆	◆	
	SDMT09T307-DM		0.2-1.2			◇		◇		◆	◆	

Note: ◆ Recommended grade ready to stock

LN□□ Inserts



Length	Size(mm)				
	W	S	APMX	L	r
3	6	3.75	1	11.8	1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD						
				GW0203	GW0403	GW8241	GW8251	GW5281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	LNMU0303ZER-MS	0.2-2.0	0.5-1.3			◇		◇		◆	◆	

Note: ◆ Recommended grade ready to stock

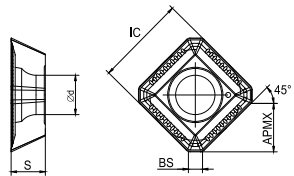
MILLING INSERTS

45°Face Milling Inserts / 88°Approaching Angle

Cost-effective Face Milling Inserts



SE□□ Inserts

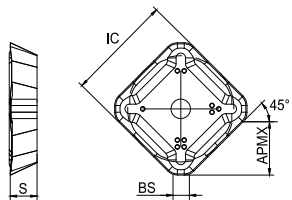


Length	Size(mm)			
	BS	APMX	I.C	S
12	1.5	6.5	12.7	4.76

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SEMT1204AFTN-GM	3.00-8.50	0.09-0.16			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

SE□□ Inserts

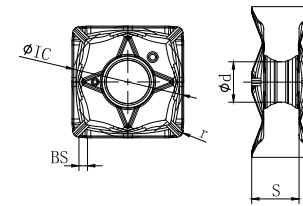


Length	Size(mm)			
	BS	APMX	I.C	S
12	1.5	6.5	12.7	3.19
15	2	8.5	15.875	4.76

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SEER1203-GM	1.50-6.00	0.10-0.25			◇	◆	◇	◆	◆	◇				
	SEER1504-GM	1.50-8.00	0.10-0.25			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

SN□□ Inserts

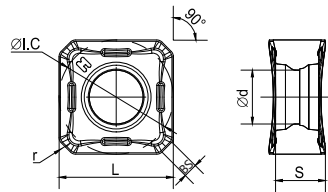


Length	Size(mm)			
	I.C	S	BS	r
13	13	5.5	1	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SNMU130508EN-GM	1.0-5.0	0.1-0.25			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

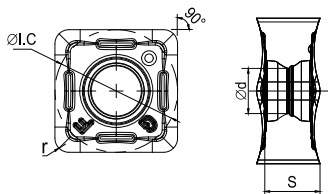
SN□□ Inserts



Length	Size(mm)		
	I.C	S	BS
12	12.7	6.4	1.5
16	16	7.7	1.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SNMX1205ANN-GM	1.00-6.00	0.15-0.50			◇	◆	◇	◆	◆	◇				
	SNMX1606ANN-GM	1.00-6.00	0.15-0.50			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

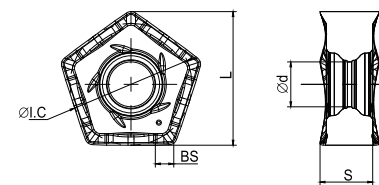


Length	Size(mm)		
	I.C	S	r
9	9.525	5.5	0.8-1.1

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SNGX090408-GF	2.50-7.50	0.08-0.15			◇	◆	◇	◆	◆	◇				
	SNGX090411-GF	2.50-7.50	0.08-0.15			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

PN□□ Inserts

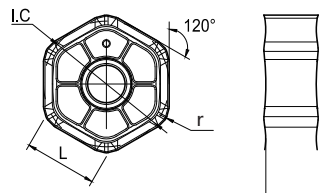


Length	Size(mm)				
	L	S	d	BCH	BS
09	12.2	13.4	5.35	4.5	2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	PNCU0905GNEN-GM	0.50-3.00	0.20-0.60			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

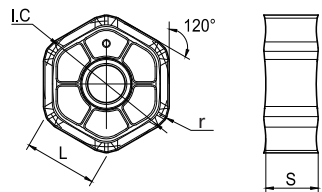
HN□□ Inserts



Length	Size(mm)		
	I.C	S	r
9	15.875	5.56	1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	HNMG0907ANSN-R	1.50-4.00	0.20-0.70			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

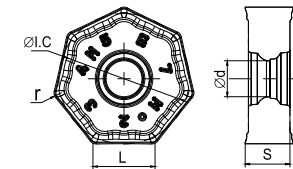


Length	Size(mm)		
	I.C	S	r
9	15.875	5.56	1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWR0101	GWR5201	GWR5251	GWR0291
	HNMG0907ANSN-M	1.00-3.00	0.05-0.15			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

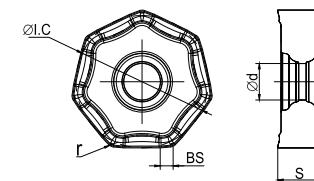
XN□□ Inserts



Length	Size(mm)			
	I.C	S	d	r
7	12	5.8	4	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	XNMG070508-MM	0.2-3.0	0.05-0.2			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

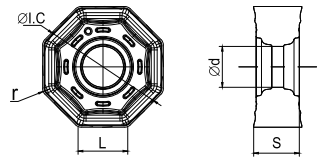


Length	Size(mm)				
	I.C	S	d	BS	r
9	19.05	5.9	5.5		1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GW0101	GW5201	GW5251	GW0291
	XNMG090612-GR	0.3-3.0	0.05-0.3			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

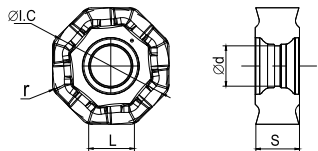
ON□□ Inserts



Length	Size(mm)		
	I.C	S	r
05	12.7	4.76	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	ONHU050408-AR	0.8-3.5	0.2-0.35			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

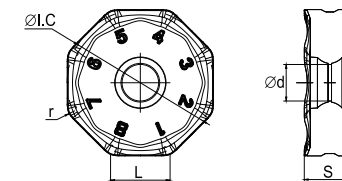


Length	Size(mm)		
	I.C	S	r
05	12.7	4.76	0.8

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	ONHU050408-AF	0.5-2.5	0.1-0.25			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

ON□□ Inserts

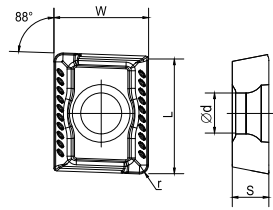


Length	Size(mm)		
	I.C	S	BS
09	22	5.8	0.45
09	22	5.8	2.11

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	ONMU090520ANTN-GM	0.80-2.50	0.10-0.20			◇	◆	◇	◆	◆	◇				
	ONMU090520ANTN-GR	1.00-3.50	0.10-0.20			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

AP□□ Inserts

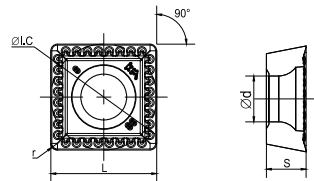


Length	Size(mm)				
	L	W	S	d	r
15	16.33	12.7	4.76	5.4	1.2

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	APKT150412-PM	1.2-8	0.08-0.2			◇	◆	◇	◆	◆	◇				
	APKT150415-KM	1.2-8	0.08-0.2			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

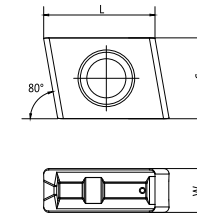
SP□□ Inserts



Length	Size(mm)				
	r	L	LC	S	d
12	0.8	12.7	12.7	4.76	5.5

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	SPMT120408-PM	1.00-6.00	0.06-0.15			◇	◆	◇	◆	◆	◇				
	SPMT120408-KM	1.00-6.00	0.06-0.15			◇	◆	◇	◆	◆	◇				

CN□□ Inserts

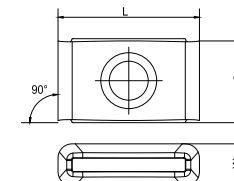


Type	Size(mm)		
	L	S	W
160608T	16	12	6.4

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	CNHX160608T	1.20-5.50	0.20-0.60			◇	◆	◇	◆	◆	◇				

Note: ◆ Recommended grade ready to stock

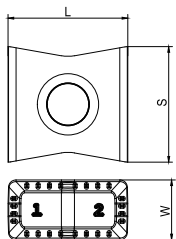
LN□□ Inserts



Type	Size(mm)		
	L	S	W
16090416	16	9.5	4.76

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	LNKT16090416	1.60-12.00	0.15-0.50			◇	◆	◇	◆	◆	◇				

LN□□ Inserts



Type	Size(mm)		
	L	S	W
120608	12.7	12.25	6.35

Shape	Type	Ap (mm)	Fn (mm/rev)	CVD		PVD									
				GW0203	GW0403	GW0151	GW0251	GW8241	GW8251	GW5251	GW8281	GWFR0101	GWFR5201	GWFR5251	GWFR0291
	LNKX120608	2.00-7.00	0.10-0.20			◇	◆	◇	◆	◆	◇				

Note:◆Recommended grade ready to stock

GW
CUTTING TOOLS
DRILLING INSERTS

