

KORLOY ADN5160R D8A

New

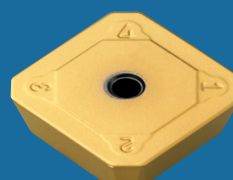
Powerful
ISO Milling
Insert

PC3500-SU

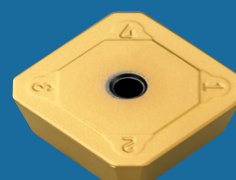
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Features

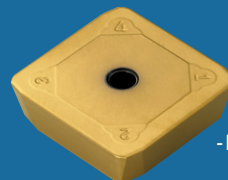
- Improving productivity and efficiency
- The latest, PVD layer technology applied
- Best solution for various workpiece and machining
- Universal insert for all materials(P,M,K)



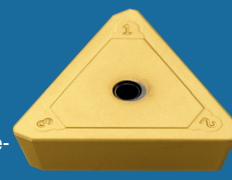
SEKN-SU



SDKN-SU



SPKN-SU



TPKN-SU

-L Type-

-R Type-



KORLOY Inc.



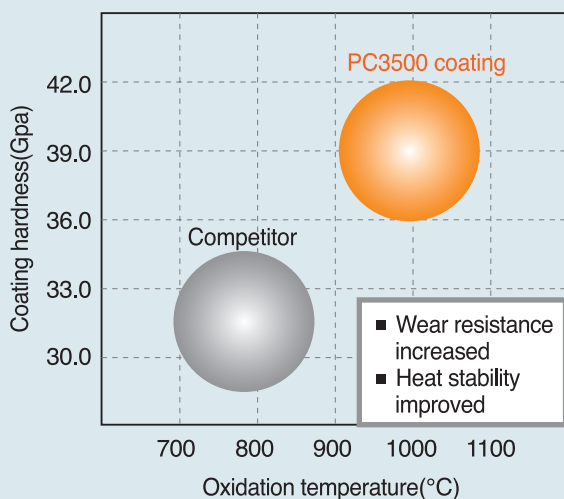
PC3500-SU

Powerful ISO Milling Insert

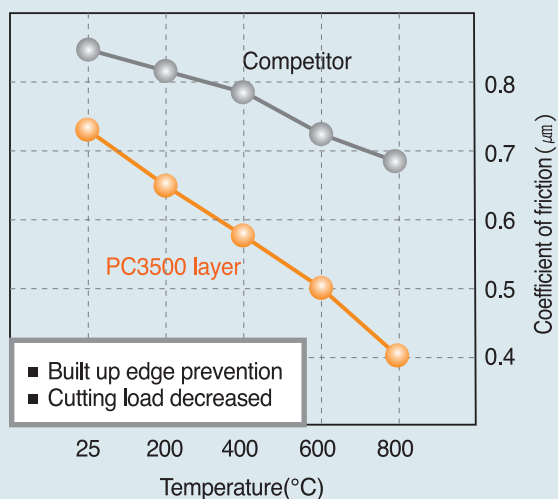
The combination of tough substrate and high hardness coating layer

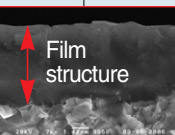
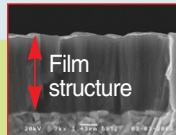
The combination of tough substrate and high hardness coating layer

● Oxidation temperature & coating hardness

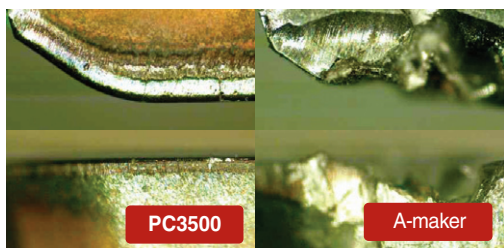


● Temperature and coefficient of friction

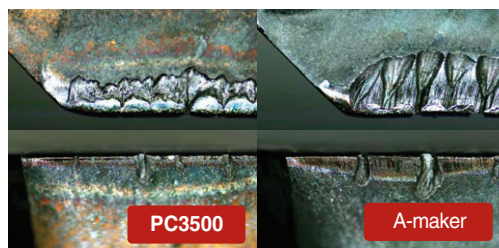


RPM	ISO	Continuous condition	General condition	Interrupted condition
High speed machining	10			
↑	20	PC3500 - High speed/General, interrupted cutting condition - Universal (Alloy steel/Mould steel/Carbon steel/Cast iron) - Tough substrate + PC3500 coating		
	30			
	40		PC3545 - Low speed/interrupted PC3545 coating - Primary for alloy steel (SCM, SM, SS) - Tough substrate + K-GOLD applied	
Low speed machining				
Workpiece shape				

- Designation : SPKN1203EDSR-SU
- Cutting condition : Mould steel (X100CrMoV5-1 (SKD11))
- vc=300m/min, fz=0.2mm, ap=2.0mm, dry



- Designation : SDKN1504AESN-SU
- Cutting condition : Alloy steel (42CrMo4 (SCM440))
- vc=300m/min, fz=0.4mm, ap=2.0mm, dry



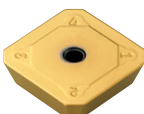
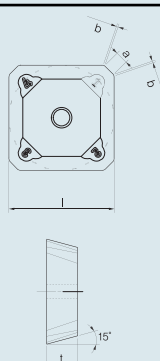
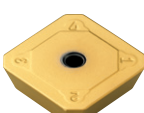
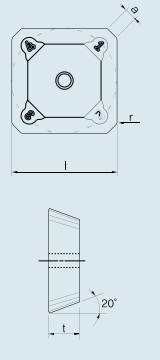
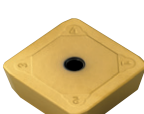
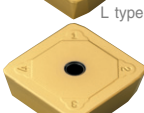
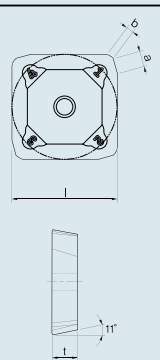
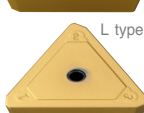
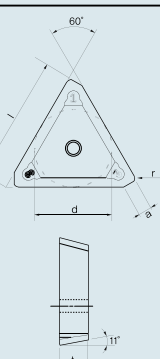


PC3500-SU

Powerful ISO Milling Insert

Stock item

Stock item

Insert	Designation	Dimensions					Geometry	Available tool	
		l	t	d	a	b		Designation	No. of tooth
SDKN-SU 	SDKN1203AESN-SU	12.70	3.18	-	2.00	0.25		ADN(M) 4080R/L 4100R/L 4125R/L 4160R/L 4200R/L 4250R/L 4315R/L	4 5 6 8 10 12 14
	SDKN1504AESN-SU	15.875	4.76	-	2.00	0.25		ADN(M) 5080R/L 5100R/L 5125R/L 5160R/L 5200R/L 5250R/L 5315R/L	4 5 6 8 10 12 14
SEKN-SU 	SEKN1203AFSN-SU	12.70	3.18	-	2.00	-		AE(M) 4080R/L 4100R/L 4125R/L 4160R/L 4200R/L 4250R/L 4315R/L	4 5 6 8 10 12 15
	SEKN1504AFSN-SU	15.875	4.76	-	2.00	-		AE(M) 5080R/L 5100R/L 5125R/L 5160R/L 5200R/L 5250R/L 5315R/L	4 5 6 8 10 12 15
SPKN-SU  L type  R type	SPKN1203EDSR/L-SU	12.70	3.18	-	2.00	0.85		EPN(M) 4080R/L 4100R/L 4125R/L 4160R/L 4200R/L 4250R/L 4315R/L	5 6 8 10 12 16 20
	SPKN1504EDSR/L-SU	15.875	4.76	-	2.00	0.85		EPN(M) 5080R/L 5100R/L 5125R/L 5160R/L 5200R/L 5250R/L 5315R/L	5 6 8 10 12 16 20
TPKN-SU  L type  R type	TPKN1603PDSR/L-SU	16.50	3.18	9.525	1.90	-		-	-
	TPKN2204PDSR/L-SU	22.00	4.76	12.70	2.00	-		PPN(M) 4080R/L 4100R/L 4125R/L 4160R/L 4200R/L 4250R/L 4315R/L	5 6 8 10 12 16 20



PC3500-SU

Powerful ISO Milling Insert

PC3500 Productivity increase case

PC3500 Productivity increase case

• Case 1 Mould base machining

- workpiece : 42CrMo4(SCM440)
- vc : 177 m/min
- fz : 0.08 mm/t
- ap : 2 mm

- Korloy : SPKN1203EDSR-SU PC3500
- A-maker : SPKN1203EDTR-□□ P30 Grade

Korloy 3.5 pcs/edge

A-maker 2.0 pcs/edge

• Case 2 Metal plate machining

- workpiece : KP4M(Mold steel)
- vc : 281 m/min
- fz : 0.11 mm/t
- ap : 4 ~ 6 mm

- Korloy : SDKN1504AESN-SU PC3500
- A-maker : SDKN1504MT-□□ P30 Grade

Korloy 13 pcs/edge

A-maker 10 pcs/edge

• Case 3 Large-sized facility body machining

- workpiece : SS40(Soft steel)
- vc : 251 m/min
- fz : 0.20 mm/t
- ap : 3 mm

- Korloy : SPKN1504EDSR-SU PC3500
- A-maker : SPKN1504EDTR-□□ P30 Grade

Korloy 420 min/edge

A-maker 360 min/edge

• Case 4 Machine tool spindle machining

- workpiece : C45(S45C)
- vc : 140 m/min
- fz : 0.07 mm/t
- ap : 4 mm

- Korloy : TPKN2204PDSR-SU PC3500
- A-maker : TPKN2204PDTR-□□ P30 Grade

Korloy 13 m/edge

A-maker 10 m/edge

• Case 5 Ship con-rod machining

- workpiece : C45(S45C)
- vc : 226 m/min
- fz : 0.14 mm/t
- ap : 5 mm

- Korloy : TPKN2204PDSR-SU PC3500
- A-maker : TPKN2204PDTR-□□ P30 Grade

Korloy 7 pcs/edge

A-maker 5 pcs/edge



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