



“FLASH COAT” GRADES

AH110

ALUMINUMS

CAST IRONS

INCONEL

TITANIUM

AH120

WASPALLOY

HASTELLOY

INCOLOY

AH330

304 STAINLESS

316 STAINLESS

17-4 PH

AH740

1020, 1050

8620, 4140

52100, D2



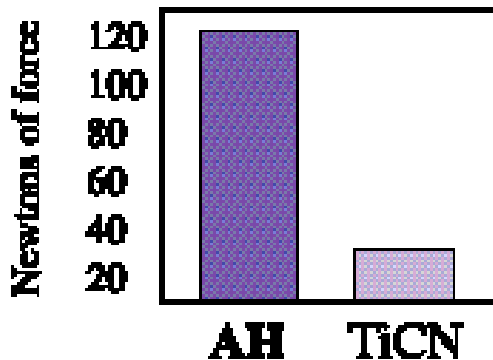


Flash Coat AH-Series

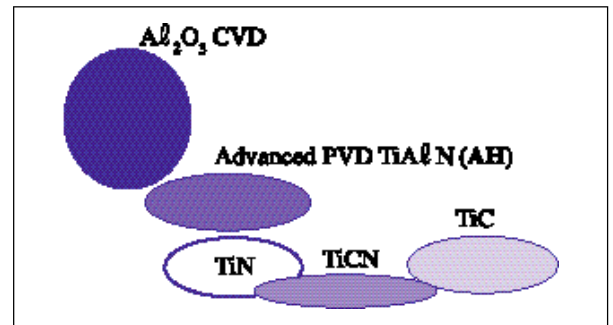
★ Revolutionary TiAlN PVD Coating

■ Coating Features

– 3 Times Better Adhesion Strength

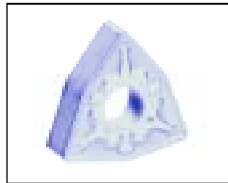


– Superior Oxidation Resistance



■ Grade Applications

Turning



AH120 – Best grade for finishing to roughing of Super Alloys and Stainless Steels, balanced toughness & wear resistance.

AH110 – Best grade for general Aluminum turning, also suited for finishing to medium cutting of Super Alloys and Stainless Steels, offers high wear resistance.

Milling



AH330 – Best grade for high speed milling of Steels.

AH120 – Best grade for general purpose milling of Super Alloys, Stainless Steels and Cast Irons. Provides high toughness in Steel milling.

Drilling





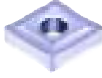





















AH740 – Best grade for general indexable drilling in all materials. Offers high toughness with wear resistance.

AH170 – High heat resistance with high toughness used for DMX type Solid Carbide Drills.

■ Insert Selection

● Turning Inserts






Shape	Catalog Number	Stock Grades	
		AH120	AH110
	CNMG542 CNMG543 CNMG643 CNMG644	● ● ● ●	
	CNMG431SA CNMG432SA CNMG433SA CNMG643SA CNMG644SA	● ● ● ● ●	● ● △
	CNMG431TM CNMG432TM CNMG433TM CNMG543TM CNMG642TM CNMG643TM	● ● ● ● ● ●	● ●
	CNMG432TH CNMG433TH CNMG543TH CNMG544TH CNMG643TH CNMG644TH	● ● ● ● ● ●	
	CNMG431TN28 CNMG432TN28 CNMG433TN28	● ● ●	● ●
	DNMG431SA DNMG432SA DNMG433SA	● ● ●	● ● △
	DNMG431TM DNMG432TM DNMG433TM	● ● ●	● ● △
	DNMG432TH DNMG433TH	● ●	
	DNMG431TN28 DNMG432TN28	● ●	● ●
	RNMG43TN61	●	
	SNMG543 SNMG544 SNMG643 SNMG644 SNMG866	● ● ● ● ●	
	SNMG431SA SNMG432SA SNMG433SA SNMG643SA SNMG644SA	● ● ● ● ●	△ △ △

Shape	Catalog Number	Stock Grades	
		AH120	AH110
	SNMG431TM SNMG543TM SNMG642TM SNMG643TM	● ● ● ●	
	SNMG432TH SNMG433TH SNMG543TH SNMG544TH SNMG643TH SNMG644TH	● ● ● ● ● ●	
	TNMG542 TNMG543	● ●	
	TNMG331SA TNMG332SA TNMG333SA TNMG432SA TNMG433SA	● ● △ ● ●	△ △ △ ●
	TNMG331TM TNMG332TM TNMG431TM TNMG432TM TNMG433TM	● ● ● ● ●	● ●
	TNMG432TH TNMG433TH	● ●	
	TNMG331TN28 TNMG332TN28 TNMG431TN28 TNMG432TN28	● ● ● ●	● ● ● ●
	TNMG666TN32	●	
	VNMG331TM VNMG332TM	● ●	● ●
	VNMG331TN28 VNMG332TN28		
	WNMG432SA WNMG433SA	● ●	● △
	WNMG431TM WNMG432TM WNMG433TM	● ● ●	● ●
	WNMG432TH WNMG433TH	● ●	

●: Stocked standard △: Complementary standard






Insert Selection

● Milling Inserts


Shape	Catalog Number	Stock Grades		Appl. Cutter
		AH120	AH330	
	ANMT09T3PPPR-ML ANMT1404PPPR-ML	●		EPN
	ANMT09T3PPPR-MJ ANMT1404PPPR-MJ		●	EPN
	SDKN42ZTN	●	●	TMD
	SDKR42ZSR-MJ	△	●	TMD
	SDMR42ZSN-MJ	●	●	TMD
	SDEN53ZTN		●	TMD
	SEKN42AFTN	●	●	TGE
	SEKN53ZTN	△	●	
	SEKR42SSR-MJ	△	●	TGE
	SEMR42ZSN-MJ	●	●	TGE
	SPKN42STR	△	●	TGP
	SPKR42SSR-MJ		●	TGP
	TEEN32ZTR	△	●	ESE
	TEEN43ZTR	△	●	TSE
	TPKN43ZTR	△	●	TSP

Insert Selection

● Milling Inserts

Shape	Catalog Number	Stock Grades		Appl. Cutter
		AH120	AH330	
	SDMT1204AFPN-MJ SDMT1204AFPN-ML	●	●	TAD
	SDMT1204PDSR-MJ SDMT1204PDPR-ML	●	●	TPD
	RDMT1204ZDPN-MJ RDMT1606ZDPN-MJ	●	●	E/TRD
	GDMT10H3PDPR-MJ	●	●	ESD
	XCET310404ER		●	ECC

● Drilling Inserts

Shape	Catalog Number	Stock Grades		Appl. Drill
		AH740		
	XPMT06X308R-DJ XPMT07H308R-DJ XPMT08T308R-DJ	●		TDX

●: Stocked standard △: Complementary standard

Cutting Conditions

● Turning

Work Materials	Operation	Grade	Chip-Breaker	Cutting Conditions		
				V (sfm)	F (ipr)	D (inch)
Nickel Base Alloys Inconels Waspalloys Hastelloys	Finishing	AH110	SA	200~250	0.004~0.008	~0.040
		AH120	SA	150~225	0.004~0.008	~0.040
	Roughing	AH120	TM	65~150	0.008~0.014	0.040~0.125
		AH120	TH	65~150	0.008~0.016	0.100~0.300
Interrupted	AH120	TH	35~125	0.004~0.008	~0.080	
Ti-based Alloys 99.5% pure Ti 6AL-4V	Finishing	AH110	SA	150~325	0.004~0.008	~0.040
		AH120	SA	150~300	0.004~0.010	~0.040
	Roughing	AH120	TM	150~200	0.008~0.016	0.040~0.125
	Interrupted	AH120	TH	75~150	0.004~0.008	~0.080
Stainless Steels 316, 304, 17-4PH	Finishing	AH110	SA	500~800	0.004~0.008	~0.040
		AH120	SA	450~700	0.004~0.008	~0.040
	Roughing	AH120	TM	400~700	0.006~0.014	0.040~0.175
		AH120	TH	400~700	0.008~0.016	0.100~0.300
Interrupted	AH120	TH	350~600	0.004~0.012	~0.150	
Aluminum Alloys	Finishing	AH110	28	1000~3000	0.004~0.010	~0.080
	Roughing	AH110	28	650~1500	0.008~0.020	0.060~0.250

● Milling

Work Materials	Operation	Grade	Cutting Conditions		
			V (sfm)	F (ipr)	D (inch)
Carbon Steels	Milling	AH330	500~1100	0.004~0.012	Depends on milling cutter
		AH120	400~800	0.006~0.014	
Alloy Steels	Milling	AH330	350~900	0.006~0.010	
		AH120	350~600	0.008~0.012	
Stainless Steels	Milling	AH120	300~600	0.004~0.008	
Cast Irons	Milling	AH110	350~825	0.004~0.010	
		AH120	300~550	0.006~0.014	
Super Alloys	Milling	AH120	75~150	0.002~0.006	
Aluminum Alloys	Milling	AH110	1000~5000	0.006~0.012	

Tungaloy

Keeping the Customer First

At Tungaloy our customers' needs are our first priority. Our commitment is to understand our customer's problems and to solve those problems. We understand that "Keeping the Customer First" means working every day to win our customers trust by providing consistent quality products that generate value. We dedicate ourselves to putting the customer first.

At Tungaloy the customer is at the center of everything we do.

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