



KCU10B

Universal Turning Grade
with **KENGold™** PVD
COATING TECHNOLOGY



Finish strong and minimize
downtime with universal **KCU10B**

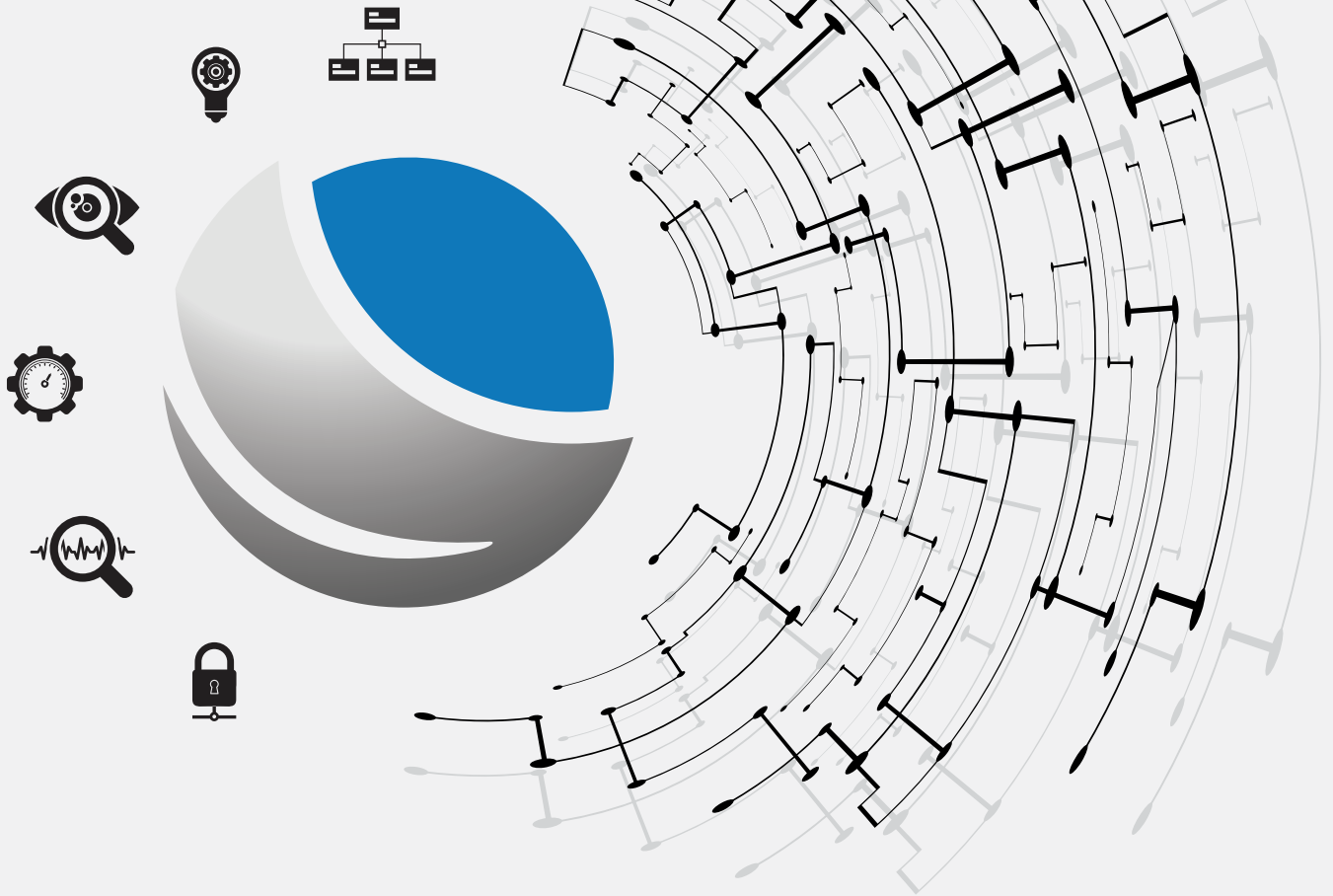
KENGold™ PVD is a multilayer coating technology featuring uniform layers that resist abrasion, provide a strong thermal barrier, improve edge toughness and allows for easy detection of wear due to its gold flank.

When applied to the **KCU10B** turning insert grade, in combination with improved tool life for operations on steels and stainless steels, customers experience versatility and consistency in tool life.



This multilayer nano composite coating technology is comprised of four layers, each with unique protection properties:

- The top layer made of TiSiN is gold for easy wear identification.
- The second layer made of AlTiSiN is a super-hard nanostructured interlayer for superior wear resistance.
- The third layer made of AlTiN is a low-stress base layer for excellent flaking resistance.
- Multilayer coating applied to cemented carbide delivering greater thermal deformation resistance and exceptional edge wear resistance.



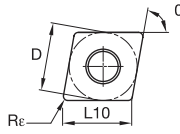
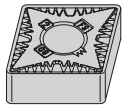
Looking for speeds and feeds?

Visit kennametal.com/NOVO

to get cutting data specific to your application!

Materials

- P** Steels
- M** Stainless Steels
- K** Cast Iron
- N** Non-Ferrous
- S** High-Temp Alloys



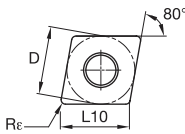
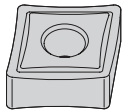
- Primary
- Secondary

P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

CNGG Insert • Negative • FS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNGG120401FS	CNGG4302FS	12,70	1/2	12,90	.508	0,1	.004	●
CNGG120402FS	CNGG4305FS	12,70	1/2	12,90	.508	0,2	.008	●
CNGG120404FS	CNGG431FS	12,70	1/2	12,90	.508	0,4	1/64	●
CNGG120408FS	CNGG432FS	12,70	1/2	12,90	.508	0,8	1/32	●



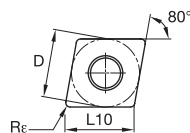
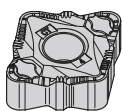
- Primary
- Secondary

P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

CNGP Insert • Negative

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNGP120401	CNGP4302	12,70	1/2	12,90	.508	0,1	.004	●
CNGP120402	CNGP4305	12,70	1/2	12,90	.508	0,2	.008	●
CNGP120404	CNGP431	12,70	1/2	12,90	.508	0,4	1/64	●
CNGP120408	CNGP432	12,70	1/2	12,90	.508	0,8	1/32	●
CNGP120412	CNGP433	12,70	1/2	12,90	.508	1,2	3/64	●
CNGP120416	CNGP434	12,70	1/2	12,90	.508	1,6	1/16	●



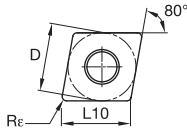
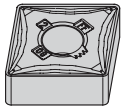
- Primary
- Secondary

P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

CNMG Insert • Negative • CT

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNMG120408CT	CNMG432CT	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412CT	CNMG433CT	12,70	1/2	12,90	.508	1,2	3/64	●



- Primary
- Secondary

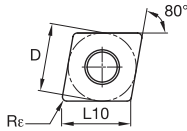
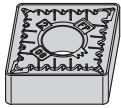
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

CNMG Insert • Negative • FF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNMG090304FF	CNMG321FF	9,53	3/8	9,67	.381	0,4	1/64	●
CNMG090308FF	CNMG322FF	9,53	3/8	9,67	.381	0,8	1/32	●
CNMG120404FF	CNMG431FF	12,70	1/2	12,90	.508	0,4	1/64	●
CNMG120408FF	CNMG432FF	12,70	1/2	12,90	.508	0,8	1/32	●

KCU10B



- Primary
- Secondary

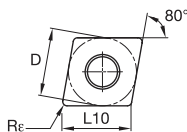
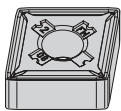
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

CNMG Insert • Negative • FP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNMG120404FP	CNMG431FP	12,70	1/2	12,90	.508	0,4	1/64	●
CNMG120408FP	CNMG432FP	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412FP	CNMG433FP	12,70	1/2	12,90	.508	1,2	3/64	●

KCU10B



- Primary
- Secondary

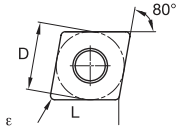
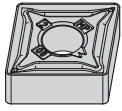
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

CNMG Insert • Negative • FW

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNMG120404FW	CNMG431FW	12,70	1/2	12,90	.508	0,4	1/64	●
CNMG120408FW	CNMG432FW	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412FW	CNMG433FW	12,70	1/2	12,90	.508	1,2	3/64	●

KCU10B



- Primary
- Secondary

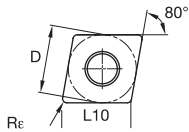
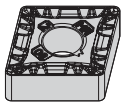
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Kenloc™ Inserts

CNMG Insert • Negative • MP

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
CNMG090308MP	CNMG322MP	9,53	3/8	9,67	.381	0,8	1/32	●
CNMG120404MP	CNMG431MP	12,70	1/2	12,90	.508	0,4	1/64	●
CNMG120408MP	CNMG432MP	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412MP	CNMG433MP	12,70	1/2	12,90	.508	1,2	3/64	●
CNMG120416MP	CNMG434MP	12,70	1/2	12,90	.508	1,6	1/16	●
CNMG160608MP	CNMG542MP	15,88	5/8	16,12	.635	0,8	1/32	●
CNMG160612MP	CNMG543MP	15,88	5/8	16,12	.635	1,2	3/64	●
CNMG160616MP	CNMG544MP	15,88	5/8	16,12	.635	1,6	1/16	●
CNMG190608MP	CNMG642MP	19,05	3/4	19,34	.762	0,8	1/32	●
CNMG190612MP	CNMG643MP	19,05	3/4	19,34	.762	1,2	3/64	●
CNMG190616MP	CNMG644MP	19,05	3/4	19,34	.762	1,6	1/16	●

KCU10B



- Primary
- Secondary

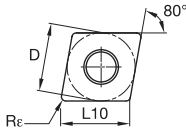
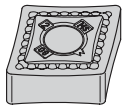
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Kenloc™ Inserts

CNMG Insert • Negative • MR

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
CNMG120408MR	CNMG432MR	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412MR	CNMG433MR	12,70	1/2	12,90	.508	1,2	3/64	●

KCU10B



- Primary
- Secondary

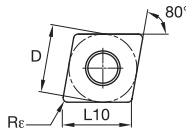
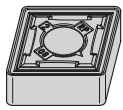
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Kenloc™ Inserts

CNMG Insert • Negative • MS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNMG120401MS	CNMG4302MS	12,70	1/2	12,90	.508	0,1	.004	●
CNMG120402MS	CNMG4305MS	12,70	1/2	12,90	.508	0,2	.008	●
CNMG120404MS	CNMG431MS	12,70	1/2	12,90	.508	0,4	1/64	●
CNMG120408MS	CNMG432MS	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412MS	CNMG433MS	12,70	1/2	12,90	.508	1,2	3/64	●
CNMG120416MS	CNMG434MS	12,70	1/2	12,90	.508	1,6	1/16	●
CNMG160608MS	CNMG542MS	15,88	5/8	16,12	.635	0,8	1/32	●
CNMG160612MS	CNMG543MS	15,88	5/8	16,12	.635	1,2	.047	●
CNMG190608MS	CNMG642MS	19,05	3/4	19,34	.762	0,8	1/32	●
CNMG190612MS	CNMG643MS	19,05	3/4	19,34	.762	1,2	.047	●
CNMG190616MS	CNMG644MS	19,05	3/4	19,34	.762	1,6	1/16	●

KCU10B



- Primary
- Secondary

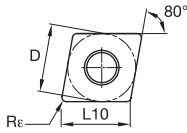
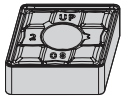
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Kenloc™ Inserts

CNMG Insert • Negative • RP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNMG120404RP	CNMG431RP	12,70	1/2	12,90	.508	0,4	1/64	●
CNMG120408RP	CNMG432RP	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412RP	CNMG433RP	12,70	1/2	12,90	.508	1,2	3/64	●
CNMG120416RP	CNMG434RP	12,70	1/2	12,90	.508	1,6	1/16	●
CNMG160608RP	CNMG542RP	15,88	5/8	16,12	.635	0,8	1/32	●
CNMG160612RP	CNMG543RP	15,88	5/8	16,12	.635	1,2	3/64	●
CNMG190612RP	CNMG643RP	19,05	3/4	19,34	.762	1,2	3/64	●
CNMG190616RP	CNMG644RP	19,05	3/4	19,34	.762	1,6	1/16	●

KCU10B



- Primary
- Secondary

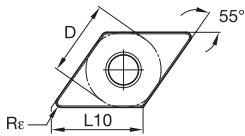
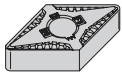
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Kenloc™ Inserts

CNMG Insert • Negative • UP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CNMG120404UP	CNMG431UP	12,70	1/2	12,90	.508	0,4	1/64	●
CNMG120408UP	CNMG432UP	12,70	1/2	12,90	.508	0,8	1/32	●
CNMG120412UP	CNMG433UP	12,70	1/2	12,90	.508	1,2	3/64	●
CNMG160608UP	CNMG542UP	15,88	5/8	16,12	.635	0,8	1/32	●
CNMG160612UP	CNMG543UP	15,88	5/8	16,12	.635	1,2	3/64	●

KCU10B



- Primary
- Secondary

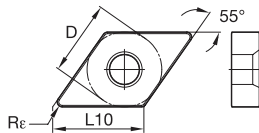
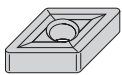
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Kenloc™ Inserts

DNGG Insert • Negative • FS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNGG110402FS	DNGG3305FS	9,53	3/8	11,63	.458	0,2	.008	●
DNGG110404FS	DNGG331FS	9,53	3/8	11,63	.458	0,4	1/64	●
DNGG110408FS	DNGG332FS	9,53	3/8	11,63	.458	0,8	1/32	●
DNGG150402FS	DNGG4305FS	12,70	1/2	15,50	.610	0,2	.008	●
DNGG150404FS	DNGG431FS	12,70	1/2	15,50	.610	0,4	1/64	●
DNGG150408FS	DNGG432FS	12,70	1/2	15,50	.610	0,8	1/32	●
DNGG150412FS	DNGG433FS	12,70	1/2	15,50	.610	0,2	3/64	●
DNGG150604FS	DNGG441FS	12,70	1/2	15,50	.610	0,4	1/64	●
DNGG150608FS	DNGG442FS	12,70	1/2	15,50	.610	0,8	1/32	●

KCU10B



- Primary
- Secondary

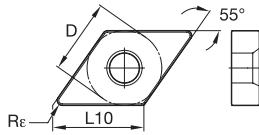
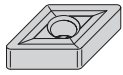
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Kenloc™ Inserts

DNGP Insert • Negative

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNGP150401	DNGP4302	12,70	1/2	15,50	.610	0,1	.004	●
DNGP150402	DNGP4305	12,70	1/2	15,50	.610	0,2	.008	●
DNGP150404	DNGP431	12,70	1/2	15,50	.610	0,4	1/64	●

KCU10B



Continued

Kenloc™ Inserts

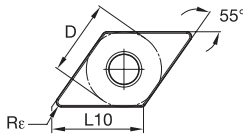
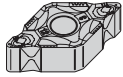
DNGP Insert • Negative

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
DNGP150408	DNGP432	12,70	1/2	15,50	.610	0,8	1/32	•
DNGP150604	DNGP441	12,70	1/2	15,50	.610	0,4	1/64	•
DNGP150608	DNGP442	12,70	1/2	15,50	.610	0,8	1/32	•

- Primary
- Secondary

P	Blue	•
M	Yellow	•
K	Red	•
N	Green	○
S	Orange	•
H	Grey	

KCU10B



Kenloc™ Inserts

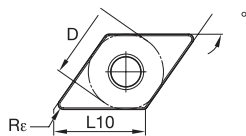
DNMG Insert • Negative • CT

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
DNMG150408CT	DNMG432CT	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150412CT	DNMG433CT	12,70	1/2	15,50	.610	1,2	3/64	•
DNMG150608CT	DNMG442CT	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150612CT	DNMG443CT	12,70	1/2	15,50	.610	1,2	3/64	•

- Primary
- Secondary

P	Blue	•
M	Yellow	•
K	Red	•
N	Green	○
S	Orange	•
H	Grey	

KCU10B



Kenloc™ Inserts

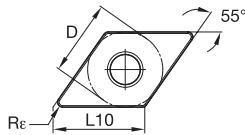
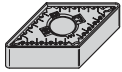
DNMG Insert • Negative • FF

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
DNMG110404FF	DNMG331FF	9,53	3/8	11,63	.458	0,4	1/64	•
DNMG110408FF	DNMG332FF	9,53	3/8	11,63	.458	0,8	1/32	•
DNMG150404FF	DNMG431FF	12,70	1/2	15,50	.610	0,4	1/64	•
DNMG150604FF	DNMG441FF	12,70	1/2	15,50	.610	0,4	1/64	•
DNMG150608FF	DNMG442FF	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150408FF	DNMG432FF	12,70	1/2	15,50	.610	0,8	1/32	•

- Primary
- Secondary

P	Blue	•
M	Yellow	•
K	Red	•
N	Green	○
S	Orange	•
H	Grey	

KCU10B



- Primary
- Secondary

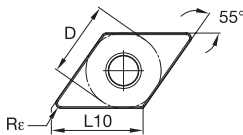
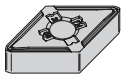
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

DNMG Insert • Negative • FP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG110404FP	DNMG331FP	9,53	3/8	11,63	.458	0,4	1/64	●
DNMG110408FP	DNMG332FP	9,53	3/8	11,63	.458	0,8	1/32	●
DNMG150404FP	DNMG431FP	12,70	1/2	15,50	.610	0,4	1/64	●
DNMG150408FP	DNMG432FP	12,70	1/2	15,50	.610	0,8	1/32	●
DNMG150412FP	DNMG433FP	12,70	1/2	15,50	.610	1,2	3/64	●
DNMG150604FP	DNMG441FP	12,70	1/2	15,50	.610	0,4	1/64	●
DNMG150608FP	DNMG442FP	12,70	1/2	15,50	.610	0,8	1/32	●
DNMG150612FP	DNMG443FP	12,70	1/2	15,50	.610	1,2	3/64	●

KCU10B



- Primary
- Secondary

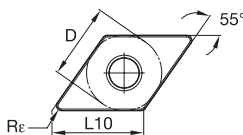
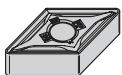
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

DNMG Insert • Negative • FW

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG110404FW	DNMG331FW	9,53	3/8	11,63	.458	0,4	1/64	●
DNMG150404FW	DNMG431FW	12,70	1/2	15,50	.610	0,4	1/64	●
DNMG150408FW	DNMG432FW	12,70	1/2	15,50	.610	0,8	1/32	●
DNMG150604FW	DNMG441FW	12,70	1/2	15,50	.610	0,4	1/64	●
DNMG150608FW	DNMG442FW	12,70	1/2	15,50	.610	0,8	1/32	●

KCU10B



- Primary
- Secondary

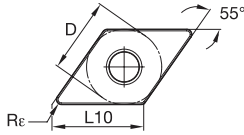
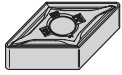
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

DNMG Insert • Negative • MP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG110404MP	DNMG331MP	9,53	3/8	11,63	.458	0,4	1/64	●
DNMG110408MP	DNMG332MP	9,53	3/8	11,63	.458	0,8	1/32	●
DNMG150404MP	DNMG431MP	12,70	1/2	15,50	.610	0,4	1/64	●

KCU10B



Continued

Kenloc™ Inserts

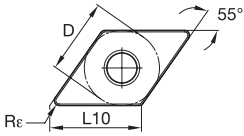
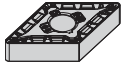
DNMG Insert • Negative • MP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG150408MP	DNMG432MP	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150412MP	DNMG433MP	12,70	1/2	15,50	.610	1,2	3/64	•
DNMG150604MP	DNMG441MP	12,70	1/2	15,50	.610	0,4	1/64	•
DNMG150608MP	DNMG442MP	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150612MP	DNMG443MP	12,70	1/2	15,50	.610	1,2	3/64	•

- Primary
- Secondary

P	Blue	•
M	Yellow	•
K	Red	•
N	Green	○
S	Orange	•
H	Grey	

KCU10B



Kenloc™ Inserts

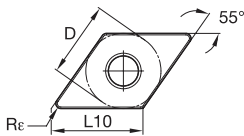
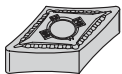
DNMG Insert • Negative • MR

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG150408MR	DNMG432MR	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150412MR	DNMG433MR	12,70	1/2	15,50	.610	1,2	3/64	•
DNMG150608MR	DNMG442MR	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150612MR	DNMG443MR	12,70	1/2	15,50	.610	1,2	3/64	•

- Primary
- Secondary

P	Blue	•
M	Yellow	•
K	Red	•
N	Green	○
S	Orange	•
H	Grey	

KCU10B



Kenloc™ Inserts

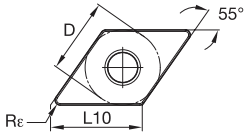
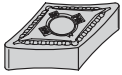
DNMG Insert • Negative • MS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG110404MS	DNMG331MS	9,53	3/8	11,63	.458	0,4	1/64	•
DNMG110408MS	DNMG332MS	9,53	3/8	11,63	.458	0,8	1/32	•
DNMG150401MS	DNMG4302MS	12,70	1/2	15,50	.610	0,1	.004	•
DNMG150402MS	DNMG4305MS	12,70	1/2	15,50	.610	0,2	.008	•
DNMG150404MS	DNMG431MS	12,70	1/2	15,50	.610	0,4	1/64	•
DNMG150408MS	DNMG432MS	12,70	1/2	15,50	.610	0,8	1/32	•

- Primary
- Secondary

P	Blue	•
M	Yellow	•
K	Red	•
N	Green	○
S	Orange	•
H	Grey	

KCU10B



Continued

Kenloc™ Inserts

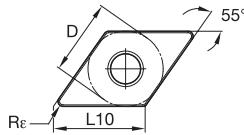
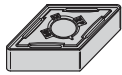
DNMG Insert • Negative • MS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG150412MS	DNMG433MS	12,70	1/2	15,50	.610	1,2	3/64	•
DNMG150604MS	DNMG441MS	12,70	1/2	15,50	.610	0,4	1/64	•
DNMG150608MS	DNMG442MS	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150612MS	DNMG443MS	12,70	1/2	15,50	.610	1,2	3/64	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



Kenloc™ Inserts

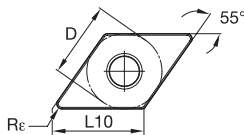
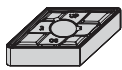
DNMG Insert • Negative • RP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG110408RP	DNMG332RP	9,53	3/8	11,63	.458	0,8	1/32	•
DNMG150408RP	DNMG432RP	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150412RP	DNMG433RP	12,70	1/2	15,50	.610	1,2	3/64	•
DNMG150608RP	DNMG442RP	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150612RP	DNMG443RP	12,70	1/2	15,50	.610	1,2	3/64	•
DNMG150416RP	DNMG434RP	12,70	1/2	15,50	.610	1,6	1/16	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



Kenloc™ Inserts

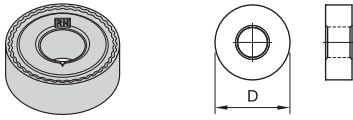
DNMG Insert • Negative • UP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DNMG150408UP	DNMG432UP	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150412UP	DNMG433UP	12,70	1/2	15,50	.610	1,2	3/64	•
DNMG150608UP	DNMG442UP	12,70	1/2	15,50	.610	0,8	1/32	•
DNMG150612UP	DNMG443UP	12,70	1/2	15,50	.610	1,2	3/64	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



- Primary
- Secondary

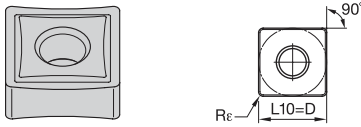
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

RNMG Insert • Negative • RN

ISO	ANSI	D		L10		R _ε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
RNMG120400RN	RNMG43RN	12,70	1/2	-	-	-	-	●
RNMG190600RN	RNMG64RN	19,05	3/4	-	-	-	-	●

KCU10B



- Primary
- Secondary

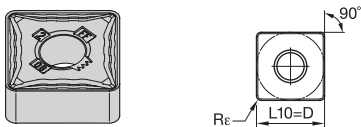
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

SNGP Insert • Negative

ISO	ANSI	D		L10		R _ε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
SNGP120404	SNGP431	12,70	1/2	12,70	.500	0,4	1/64	●
SNGP120408	SNGP432	12,70	1/2	12,70	.500	0,8	1/32	●

KCU10B



- Primary
- Secondary

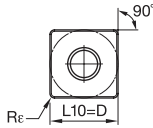
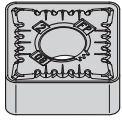
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

SNMG Insert • Negative • FF

ISO	ANSI	D		L10		R _ε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
SNMG090304FF	SNMG321FF	9,53	3/8	9,53	.375	0,4	1/64	●
SNMG090308FF	SNMG322FF	9,53	3/8	9,53	.375	0,8	1/32	●
SNMG120404FF	SNMG431FF	12,70	1/2	12,70	.500	0,4	1/64	●
SNMG120408FF	SNMG432FF	12,70	1/2	12,70	.500	0,8	1/32	●

KCU10B



- Primary
- Secondary

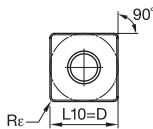
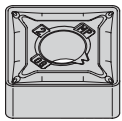
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Kenloc™ Inserts

SNMG Insert • Negative • FP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SNMG120404FP	SNMG431FP	12,70	1/2	12,70	.500	0,4	1/64	●
SNMG120408FP	SNMG432FP	12,70	1/2	12,70	.500	0,8	1/32	●

KCU10B



- Primary
- Secondary

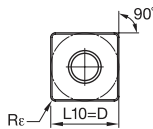
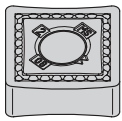
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Kenloc™ Inserts

SNMG Insert • Negative • MP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SNMG120408MP	SNMG432MP	12,70	1/2	12,70	.500	0,8	1/32	●
SNMG120412MP	SNMG433MP	12,70	1/2	12,70	.500	1,2	3/64	●
SNMG150608MP	SNMG542MP	15,88	5/8	15,88	.625	0,8	1/32	●
SNMG150612MP	SNMG543MP	15,88	5/8	15,88	.625	1,2	3/64	●
SNMG190616MP	SNMG644MP	19,05	3/4	19,05	.750	1,6	1/16	●

KCU10B



- Primary
- Secondary

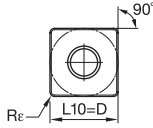
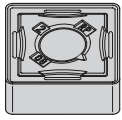
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Kenloc™ Inserts

SNMG Insert • Negative • MS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SNMG120408MS	SNMG432MS	12,70	1/2	12,70	.500	0,8	1/32	●
SNMG120412MS	SNMG433MS	12,70	1/2	12,70	.500	1,2	3/64	●

KCU10B



- Primary
- Secondary

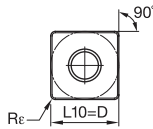
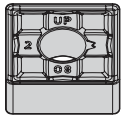
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

SNMG Insert • Negative • RP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SNMG120408RP	SNMG432RP	12,70	1/2	12,70	.500	0,8	1/32	●
SNMG120412RP	SNMG433RP	12,70	1/2	12,70	.500	1,2	3/64	●
SNMG120416RP	SNMG434RP	12,70	1/2	12,70	.500	1,6	1/16	●
SNMG150612RP	SNMG543RP	15,88	5/8	15,88	.625	1,2	3/64	●
SNMG190612RP	SNMG643RP	19,05	3/4	19,05	.750	1,2	3/64	●
SNMG190616RP	SNMG644RP	19,05	3/4	19,05	.750	1,6	1/16	●

KCU10B



- Primary
- Secondary

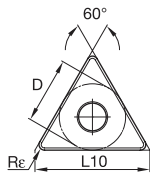
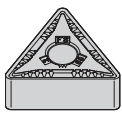
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

SNMG Insert • Negative • UP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SNMG120408UP	SNMG432UP	12,70	1/2	12,70	.500	0,8	1/32	●
SNMG120412UP	SNMG433UP	12,70	1/2	12,70	.500	1,2	3/64	●
SNMG150608UP	SNMG542UP	15,88	5/8	15,88	.625	0,8	1/32	●
SNMG150612UP	SNMG543UP	15,88	5/8	15,88	.625	1,2	3/64	●

KCU10B



- Primary
- Secondary

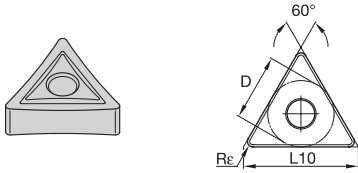
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNGG Insert • Negative • FS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TNGG160404FS	TNGG331FS	9,53	3/8	16,50	.620	0,4	1/64	●
TNGG160408FS	TNGG332FS	9,53	3/8	16,50	.650	0,8	1/32	●
TNGG220408FS	TNGG432FS	12,70	1/2	22,00	.866	0,8	1/32	●
TNGG220412FS	TNGG433FS	12,70	1/2	22,00	.866	1,2	3/64	●

KCU10B



- Primary
- Secondary

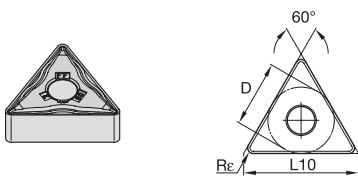
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNGP Insert • Negative

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TNGP160402	TNGP3305	9,53	3/8	16,50	.650	0,2	.008	●
TNGP160404	TNGP331	9,53	3/8	16,50	.650	0,4	1/64	●
TNGP160408	TNGP332	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

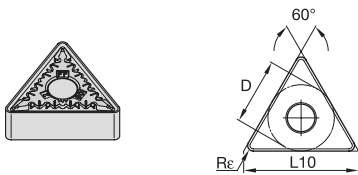
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNMG Insert • Negative • FF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TNMG110304FF	TNMG221FF	6,35	1/4	11,00	.433	0,4	1/64	●
TNMG160404FF	TNMG331FF	9,53	3/8	16,50	.650	0,4	1/64	●
TNMG160408FF	TNMG332FF	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

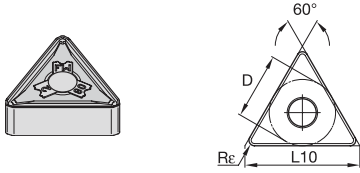
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNMG Insert • Negative • FP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TNMG160404FP	TNMG331FP	9,53	3/8	16,50	.650	0,4	1/64	●
TNMG160408FP	TNMG332FP	9,53	3/8	16,50	.650	0,8	1/32	●
TNMG160412FP	TNMG333FP	9,53	3/8	16,50	.650	1,2	3/64	●
TNMG220404FP	TNMG431FP	12,70	1/2	22,00	.866	0,4	1/64	●
TNMG220408FP	TNMG432FP	12,70	1/2	22,00	.866	0,8	1/32	●

KCU10B



- Primary
- Secondary

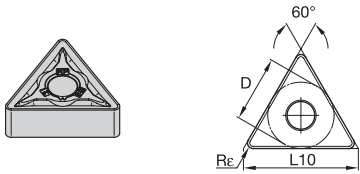
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNMG Insert • Negative • FW

ISO	ANSI	D		L10		Rε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
TNMG160404FW	TNMG331FW	9,53	3/8	16,50	.650	0,4	1/64	●

KCU10B



- Primary
- Secondary

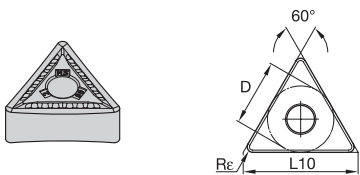
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNMG Insert • Negative • MP

ISO	ANSI	D		L10		Rε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
TNMG160404MP	TNMG331MP	9,53	3/8	16,50	.650	0,4	1/64	●
TNMG160408MP	TNMG332MP	9,53	3/8	16,50	.650	0,8	1/32	●
TNMG160412MP	TNMG333MP	9,53	3/8	16,50	.650	1,2	3/64	●
TNMG220408MP	TNMG432MP	12,70	1/2	22,00	.866	0,8	1/32	●
TNMG220412MP	TNMG433MP	12,70	1/2	22,00	.866	1,2	3/64	●
TNMG220416MP	TNMG434MP	12,70	1/2	22,00	.866	1,6	1/16	●

KCU10B



- Primary
- Secondary

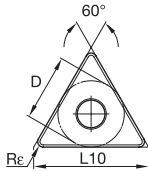
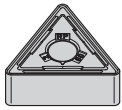
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNMG Insert • Negative • MS

ISO	ANSI	D		L10		Rε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
TNMG160402MS	TNMG3305MS	9,53	3/8	16,50	.650	0,2	.008	●
TNMG160404MS	TNMG331MS	9,53	3/8	16,50	.650	0,4	1/64	●
TNMG160408MS	TNMG332MS	9,53	3/8	16,50	.650	0,8	1/32	●
TNMG220404MS	TNMG431MS	12,70	1/2	22,00	.866	0,4	1/64	●
TNMG220408MS	TNMG432MS	12,70	1/2	22,00	.866	0,8	1/32	●
TNMG220412MS	TNMG433MS	12,70	1/2	22,00	.866	1,2	3/64	●

KCU10B



- Primary
- Secondary

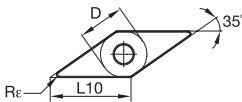
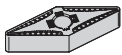
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

TNMG Insert • Negative • RP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TNMG160408RP	TNMG332RP	9,53	3/8	16,50	.650	0,8	1/32	●
TNMG160412RP	TNMG333RP	9,53	3/8	16,50	.650	1,2	3/64	●
TNMG220408RP	TNMG432RP	12,70	1/2	22,00	.866	0,8	1/32	●
TNMG220412RP	TNMG433RP	12,70	1/2	22,00	.866	1,2	3/64	●
TNMG220432RP	TNMG438RP	12,70	1/2	22,00	.866	3,2	1/8	●
TNMG270612RP	TNMG543RP	15,88	5/8	27,50	1.083	1,2	3/64	●
TNMG330924RP	TNMG666RP	19,05	3/4	33,00	1.299	2,4	3/32	●

KCU10B



- Primary
- Secondary

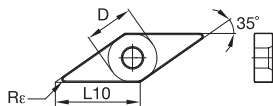
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

VNGG Insert • Negative • FS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNGG160401FS	VNGG3302FS	9,53	3/8	16,61	.654	0,1	.004	●
VNGG160402FS	VNGG3305FS	9,53	3/8	16,61	.654	0,2	.008	●
VNGG160404FS	VNGG331FS	9,53	3/8	16,61	.654	0,4	1/64	●
VNGG160408FS	VNGG332FS	9,53	3/8	16,61	.654	0,8	1/32	●

KCU10B



- Primary
- Secondary

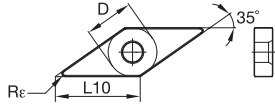
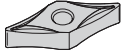
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

VNGP Insert • Negative

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNGP160401	VNGP3302	9,53	3/8	16,61	.654	0,1	.004	●
VNGP160402	VNGP3305	9,53	3/8	16,61	.654	0,2	.008	●
VNGP160404	VNGP331	9,53	3/8	16,61	.654	0,4	1/64	●

KCU10B



Continued

Kenloc™ Inserts

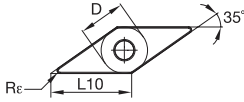
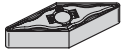
VNGP Insert • Negative

- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNGP160408	VNGP332	9,53	3/8	16,61	.654	0,8	1/32	●
VNGP220404	VNGP431	12,70	1/2	22,14	.872	0,4	1/64	●
VNGP220408	VNGP432	12,70	1/2	22,14	.872	0,8	1/32	●



Kenloc™ Inserts

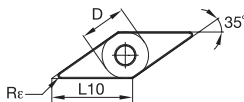
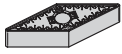
VNMG Insert • Negative • FF

- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNMG160404FF	VNMG331FF	9,53	3/8	16,61	.654	0,4	1/64	●
VNMG160408FF	VNMG332FF	9,53	3/8	16,61	.654	0,8	1/32	●



Kenloc™ Inserts

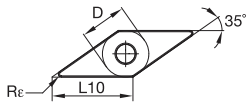
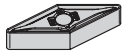
VNMG Insert • Negative • FP

- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNMG160404FP	VNMG331FP	9,53	3/8	16,61	.654	0,4	1/64	●
VNMG160408FP	VNMG332FP	9,53	3/8	16,61	.654	0,8	1/32	●



- Primary
- Secondary

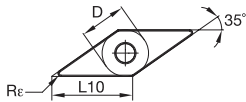
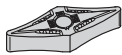
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

VNMG Insert • Negative • MP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNMG160404MP	VNMG331MP	9,53	3/8	16,61	.654	0,4	1/64	●
VNMG160408MP	VNMG332MP	9,53	3/8	16,61	.654	0,8	1/32	●
VNMG160412MP	VNMG333MP	9,53	3/8	16,61	.654	1,2	3/64	●

KCU10B



- Primary
- Secondary

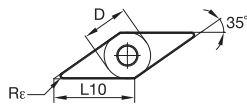
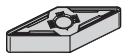
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

VNMG Insert • Negative • MS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNMG160401MS	VNMG3302MS	9,53	3/8	16,61	.654	0,1	.004	●
VNMG160402MS	VNMG3305MS	9,53	3/8	16,61	.654	0,2	.008	●
VNMG160404MS	VNMG331MS	9,53	3/8	16,61	.654	0,4	1/64	●
VNMG160408MS	VNMG332MS	9,53	3/8	16,61	.654	0,8	1/32	●
VNMG220404MS	VNMG431MS	12,70	1/2	22,14	.872	0,4	1/64	●
VNMG220408MS	VNMG432MS	12,70	1/2	22,14	.872	0,8	1/32	●

KCU10B



- Primary
- Secondary

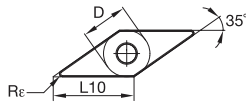
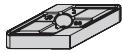
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

VNMG Insert • Negative • RP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VNMG160408RP	VNMG332RP	9,53	3/8	16,61	.654	0,8	1/32	●
VNMG160412RP	VNMG333RP	9,53	3/8	16,61	.654	1,2	3/64	●

KCU10B



- Primary
- Secondary

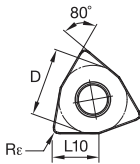
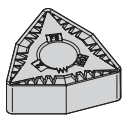
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

VNMG Insert • Negative • UP

ISO	ANSI	D		L10		Rε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
VNMG160404UP	VNMG331UP	9,53	3/8	16,61	.654	0,4	1/64	●
VNMG160408UP	VNMG332UP	9,53	3/8	16,61	.654	0,8	1/32	●

KCU10B



- Primary
- Secondary

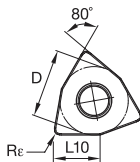
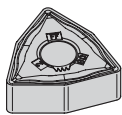
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

WNGG Insert • Negative • FS

ISO	ANSI	D		L10		Rε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
WNGG080404FS	WNGG431FS	12,70	1/2	8,69	.342	0,4	1/64	●
WNGG080408FS	WNGG432FS	12,70	1/2	8,69	.342	0,8	1/32	●

KCU10B



- Primary
- Secondary

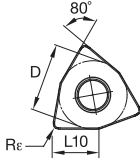
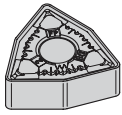
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

WNMG Insert • Negative • FF

ISO	ANSI	D		L10		Rε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
WNMG060404FF	WNMG331FF	9,53	3/8	6,52	.257	0,4	1/64	●
WNMG060408FF	WNMG332FF	9,53	3/8	6,52	.257	0,8	1/32	●
WNMG080404FF	WNMG431FF	12,70	1/2	8,69	.342	0,4	1/64	●
WNMG080408FF	WNMG432FF	12,70	1/2	8,69	.342	0,8	1/32	●

KCU10B



- Primary
- Secondary

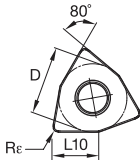
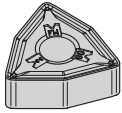
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

WNMG Insert • Negative • FP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WNMG060404FP	WNMG331FP	9,53	3/8	6,52	.257	0,4	1/64	●
WNMG060408FP	WNMG332FP	9,53	3/8	6,52	.257	0,8	1/32	●
WNMG080412FP	WNMG433FP	12,70	1/2	8,69	.342	1,2	3/64	●
WNMG080404FP	WNMG431FP	12,70	1/2	8,69	.342	0,4	1/64	●
WNMG080408FP	WNMG432FP	12,70	1/2	8,69	.342	0,8	1/32	●

KCU10B



- Primary
- Secondary

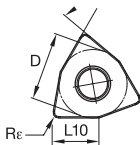
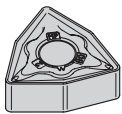
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

WNMG Insert • Negative • FW

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WNMG060404FW	WNMG331FW	9,53	3/8	6,52	.257	0,4	1/64	●
WNMG060408FW	WNMG332FW	9,53	3/8	6,52	.257	0,8	1/32	●
WNMG080408FW	WNMG432FW	12,70	1/2	8,69	.342	0,8	1/32	●

KCU10B



- Primary
- Secondary

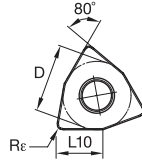
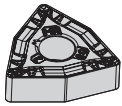
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

WNMG Insert • Negative • MP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WNMG060404MP	WNMG331MP	9,53	3/8	6,52	.257	0,4	1/64	●
WNMG060408MP	WNMG332MP	9,53	3/8	6,52	.257	0,8	1/32	●
WNMG080408MP	WNMG432MP	12,70	1/2	8,69	.342	0,8	1/32	●
WNMG080412MP	WNMG433MP	12,70	1/2	8,69	.342	1,2	3/64	●

KCU10B



- Primary
- Secondary

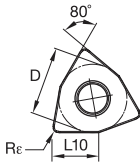
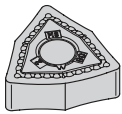
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

Kenloc™ Inserts

WNMG Insert • Negative • MR

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WNMG080408MR	WNMG432MR	12,70	1/2	8,69	.342	0,8	1/32	●
WNMG080412MR	WNMG433MR	12,70	1/2	8,69	.342	1,2	3/64	●



- Primary
- Secondary

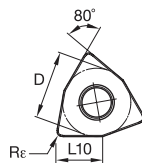
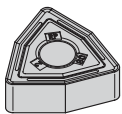
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

Kenloc™ Inserts

WNMG Insert • Negative • MS

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WNMG060408MS	WNMG332MS	9,53	3/8	6,52	.257	0,8	1/32	●
WNMG080401MS	WNMG4302MS	12,70	1/2	8,69	.342	0,1	.004	●
WNMG080402MS	WNMG4305MS	12,70	1/2	8,69	.342	0,2	.008	●
WNMG080404MS	WNMG431MS	12,70	1/2	8,69	.342	0,4	1/64	●
WNMG080408MS	WNMG432MS	12,70	1/2	8,69	.342	0,8	1/32	●



- Primary
- Secondary

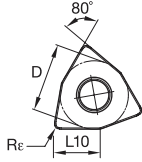
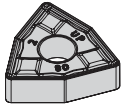
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

Kenloc™ Inserts

WNMG Insert • Negative • RP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WNMG060408RP	WNMG332RP	9,53	3/8	6,52	.257	0,8	1/32	●
WNMG080408RP	WNMG432RP	12,70	1/2	8,69	.342	0,8	1/32	●
WNMG080412RP	WNMG433RP	12,70	1/2	8,69	.342	1,2	3/64	●



- Primary
- Secondary

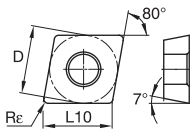
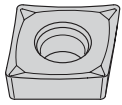
P	●
M	●
K	●
N	○
S	●
H	

Kenloc™ Inserts

WNMG Insert • Negative • UP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WNMG080408UP	WNMG432UP	12,70	1/2	8,69	.342	0,8	1/32	●
WNMG080412UP	WNMG433UP	12,70	1/2	8,69	.342	1,2	3/64	●

KCU10B



- Primary
- Secondary

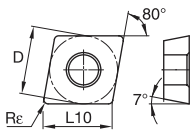
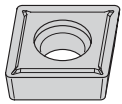
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CCGT Insert • Positive • HP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CCGT060202HP	CCGT21505HP	6,35	1/4	6,45	.254	0,2	.008	●
CCGT060204HP	CCGT2151HP	6,35	1/4	6,45	.254	0,4	1/64	●
CCGT060208HP	CCGT2152HP	6,35	1/4	6,45	.254	0,8	1/32	●
CCGT09T302HP	CCGT32505HP	9,53	3/8	9,67	.381	0,2	.008	●
CCGT09T304HP	CCGT3251HP	9,53	3/8	9,67	.381	0,4	1/64	●
CCGT09T308HP	CCGT3252HP	9,53	3/8	9,67	.381	0,8	1/32	●
CCGT120402HP	CCGT4305HP	12,70	1/2	12,90	.508	0,2	.008	●
CCGT120404HP	CCGT431HP	12,70	1/2	12,90	.508	0,4	1/64	●
CCGT120408HP	CCGT432HP	12,70	1/2	12,90	.508	0,8	1/32	●

KCU10B



- Primary
- Secondary

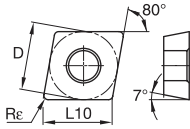
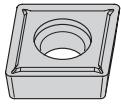
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CCGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CCGT060201LF	CCGT21502LF	6,35	1/4	6,45	.254	0,1	.004	●
CCGT060202LF	CCGT21505LF	6,35	1/4	6,45	.254	0,2	.008	●
CCGT060204LF	CCGT2151LF	6,35	1/4	6,45	.254	0,4	1/64	●
CCGT060208LF	CCGT2152LF	6,35	1/4	6,45	.254	0,8	1/32	●
CCGT09T301LF	CCGT32502LF	9,53	3/8	9,67	.381	0,1	.004	●

KCU10B



Continued

Screw-On Inserts

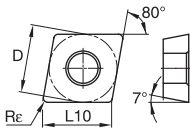
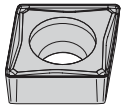
CCGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Re		
		mm	in	mm	in	mm	in	
CCGT09T302LF	CCGT32505LF	9,53	3/8	9,67	.381	0,2	.008	•
CCGT09T304LF	CCGT3251LF	9,53	3/8	9,67	.381	0,4	1/64	•
CCGT09T308LF	CCGT3252LF	9,53	3/8	9,67	.381	0,8	1/32	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



Screw-On Inserts

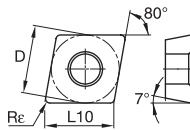
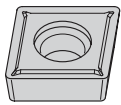
CCMT Insert • Positive • FW

ISO Catalog Number	ANSI Catalog Number	D		L10		Re		
		mm	in	mm	in	mm	in	
CCMT060202FW	CCMT21505FW	6,35	1/4	6,45	.254	0,2	.008	•
CCMT060204FW	CCMT2151FW	6,35	1/4	6,45	.254	0,4	1/64	•
CCMT060208FW	CCMT2152FW	6,35	1/4	6,45	.254	0,8	1/32	•
CCMT09T304FW	CCMT3251FW	9,53	3/8	9,67	.381	0,4	1/64	•
CCMT09T308FW	CCMT3252FW	9,53	3/8	9,67	.381	0,8	1/32	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



Screw-On Inserts

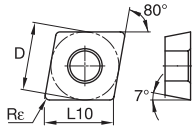
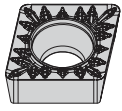
CCMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Re		
		mm	in	mm	in	mm	in	
CCMT060202LF	CCMT21505LF	6,35	1/4	6,45	.254	0,2	.008	•
CCMT060204LF	CCMT2151LF	6,35	1/4	6,45	.254	0,4	1/64	•
CCMT060208LF	CCMT2152LF	6,35	1/4	6,45	.254	0,8	1/32	•
CCMT09T302LF	CCMT32505LF	9,53	3/8	9,67	.381	0,2	.008	•
CCMT09T304LF	CCMT3251LF	9,53	3/8	9,67	.381	0,4	1/64	•
CCMT09T308LF	CCMT3252LF	9,53	3/8	9,67	.381	0,8	1/32	•
CCMT120404LF	CCMT431LF	12,70	1/2	12,90	.508	0,4	1/64	•
CCMT120408LF	CCMT432LF	12,70	1/2	12,90	.508	0,8	1/32	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



- Primary
- Secondary

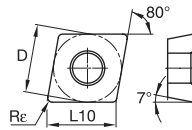
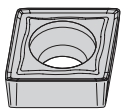
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

CCMT Insert • Positive • MP

ISO	ANSI	D		L10		R _ε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
CCMT09T312MP	CCMT3253MP	9,53	3/8	9,67	.381	1,2	3/64	●

KCU10B



- Primary
- Secondary

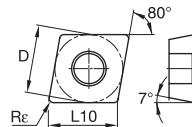
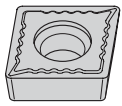
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

CCMT Insert • Positive • MW

ISO	ANSI	D		L10		R _ε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
CCMT09T304MW	CCMT3251MW	9,53	3/8	9,67	.381	0,4	1/64	●
CCMT09T308MW	CCMT3252MW	9,53	3/8	9,67	.381	0,8	1/32	●
CCMT120404MW	CCMT431MW	12,70	1/2	12,90	.508	0,4	1/64	●
CCMT120408MW	CCMT432MW	12,70	1/2	12,90	.508	0,8	1/32	●

KCU10B



- Primary
- Secondary

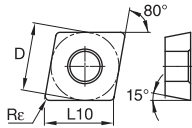
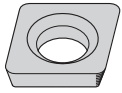
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

CCMT Insert • Positive • UF

ISO	ANSI	D		L10		R _ε		● Primary ○ Secondary
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
CCMT060204UF	CCMT2151UF	6,35	1/4	6,45	.254	0,4	1/64	●
CCMT09T302UF	CCMT32505UF	9,53	3/8	9,67	.381	0,2	.008	●
CCMT09T304UF	CCMT3251UF	9,53	3/8	9,67	.381	0,4	1/64	●
CCMT09T308UF	CCMT3252UF	9,53	3/8	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

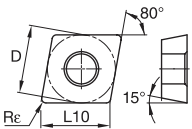
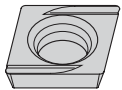
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CDHB Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CDHBS4T0X0	CDHB1206X0	3,97	1/6	4,03	.159	0,1	.002	●
CDHBS4T002	CDHB120605	3,97	1/6	4,03	.159	0,2	.007	●
CDHBS4T0S0	CDHB120601	3,97	1/6	4,03	.159	0,1	.002	●
CDHBS4T004	CDHB12061	3,97	1/6	4,03	.159	0,4	.015	●

KCU10B



- Primary
- Secondary

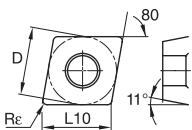
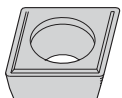
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CDHH Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CDHHS4T002L	CDHH120605L	3,97	1/6	4,03	.159	0,2	.007	●
CDHHS4T002R	CDHH120605R	3,97	1/6	4,03	.159	0,2	.007	●
CDHHS4T004L	CDHH12061L	3,97	1/6	4,03	.159	0,4	.015	●
CDHHS4T004R	CDHH12061R	3,97	1/6	4,03	.159	0,4	.015	●

KCU10B



- Primary
- Secondary

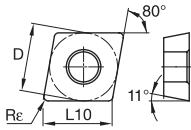
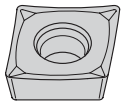
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CPGT Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CPGT060204K	CPGT2151	6,35	1/4	6,45	.254	0,4	1/64	●
CPGT09T301	CPGT32502	9,53	3/8	9,67	.381	0,1	.004	●
CPGT09T302	CPGT32505	9,53	3/8	9,67	.381	0,2	.008	●
CPGT09T304	CPGT3251	9,53	3/8	9,67	.381	0,4	1/64	●
CPGT09T308	CPGT3252	9,53	3/8	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

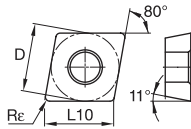
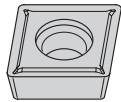
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

CPGT Insert • Positive • HP

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
CPGT060202HP	CPGT21505HP	6,35	1/4	6,45	.254	0,2	.008	●
CPGT060204HP	CPGT2151HP	6,35	1/4	6,45	.254	0,4	1/64	●
CPGT060208HP	CPGT2152HP	6,35	1/4	6,45	.254	0,8	1/32	●
CPGT09T302HP	CPGT32505HP	9,53	3/8	9,67	.381	0,2	.008	●
CPGT09T304HP	CPGT3251HP	9,53	3/8	9,67	.381	0,4	1/64	●
CPGT09T308HP	CPGT3252HP	9,53	3/8	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

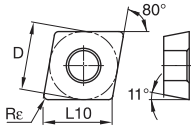
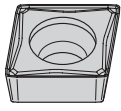
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

CPGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
CPGT060201LF	CPGT21502LF	6,35	1/4	6,45	.254	0,1	.004	●
CPGT060202LF	CPGT21505LF	6,35	1/4	6,45	.254	0,2	.008	●
CPGT060204LF	CPGT2151LF	6,35	1/4	6,45	.254	0,4	1/64	●
CPGT060208LF	CPGT2152LF	6,35	1/4	6,45	.254	0,8	1/32	●
CPGT09T301LF	CPGT32502LF	9,53	3/8	9,67	.381	0,1	.004	●
CPGT09T302LF	CPGT32505LF	9,53	3/8	9,67	.381	0,2	.008	●
CPGT09T304LF	CPGT3251LF	9,53	3/8	9,67	.381	0,4	1/64	●
CPGT09T308LF	CPGT3252LF	9,53	3/8	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

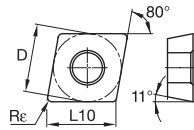
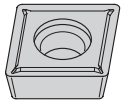
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CPMT Insert • Positive • FW

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CPMT060202FW	CPMT21505FW	6,35	1/4	6,45	.254	0,2	0.008	●
CPMT060204FW	CPMT2151FW	6,35	1/4	6,45	.254	0,4	1/64	●
CPMT060208FW	CPMT2152FW	6,35	1/4	6,45	.254	0,8	1/32	●
CPMT09T304FW	CPMT3251FW	9,53	3/8	9,67	.381	0,4	1/64	●
CPMT09T308FW	CPMT3252FW	9,53	3/8	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

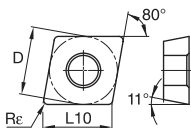
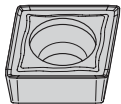
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CPMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CPMT050202LF	CPMT181505LF	5,56	0.219	5,65	.222	0,2	.008	●
CPMT050204LF	CPMT18151LF	5,56	0.219	5,65	.222	0,4	1/64	●
CPMT060202LF	CPMT21505LF	6,35	0.250	6,45	.254	0,2	.008	●
CPMT060204LF	CPMT2151LF	6,35	0.250	6,45	.254	0,4	1/64	●
CPMT060208LF	CPMT2152LF	6,35	0.250	6,45	.254	0,8	1/32	●
CPMT09T302LF	CPMT32505LF	9,53	0.375	9,67	.381	0,2	.008	●
CPMT09T304LF	CPMT3251LF	9,53	0.375	9,67	.381	0,4	1/64	●
CPMT09T308LF	CPMT3252LF	9,53	0.375	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

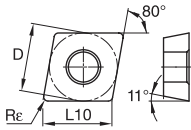
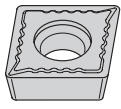
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CPMT Insert • Positive • MW

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CPMT09T304MW	CPMT3251MW	9,53	3/8	9,67	.381	0,4	1/64	●
CPMT09T308MW	CPMT3252MW	9,53	3/8	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

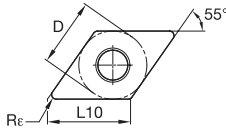
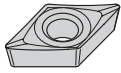
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

CPMT Insert • Positive • UF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CPMT060204UF	CPMT2151UF	6,35	1/4	6,45	.254	0,4	1/64	●
CPMT09T304UF	CPMT3251UF	9,53	3/8	9,67	.381	0,4	1/64	●
CPMT09T308UF	CPMT3252UF	9,53	3/8	9,67	.381	0,8	1/32	●

KCU10B



- Primary
- Secondary

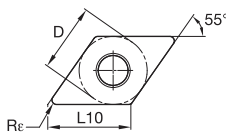
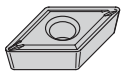
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

DCGT Insert • Positive • HP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DCGT070202HP	DCGT21505HP	6,35	1/4	7,75	.305	0,2	.008	●
DCGT070204HP	DCGT2151HP	6,35	1/4	7,75	.305	0,4	1/64	●
DCGT070208HP	DCGT2152HP	6,35	1/4	7,75	.305	0,8	1/32	●
DCGT11T302HP	DCGT32505HP	9,53	3/8	11,63	.458	0,2	.008	●
DCGT11T304HP	DCGT3251HP	9,53	3/8	11,63	.458	0,4	1/64	●
DCGT11T308HP	DCGT3252HP	9,53	3/8	11,63	.458	0,8	1/32	●

KCU10B



- Primary
- Secondary

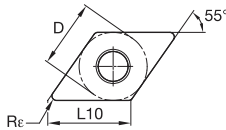
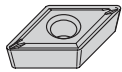
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

DCGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DCGT070201LF	DCGT21502LF	6,35	1/4	7,75	.305	0,1	.004	●
DCGT070202LF	DCGT21505LF	6,35	1/4	7,75	.305	0,2	.008	●
DCGT070204LF	DCGT2151LF	6,35	1/4	7,75	.305	0,4	1/64	●
DCGT11T301LF	DCGT32502LF	9,53	3/8	11,63	.458	0,1	.004	●
DCGT11T302LF	DCGT32505LF	9,53	3/8	11,63	.458	0,2	.008	●

KCU10B



Continued

Screw-On Inserts

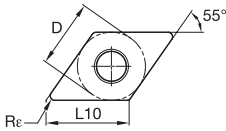
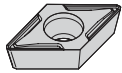
DCGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DCGT11T304LF	DCGT3251LF	9,53	3/8	11,63	.458	0,4	1/64	•
DCGT11T308LF	DCGT3252LF	9,53	3/8	11,63	.458	0,8	1/32	•
DCGT150404LF	DCGT431LF	12,70	1/2	15,50	.610	0,4	1/64	•
DCGT150408LF	DCGT432LF	12,70	1/2	15,50	.610	0,8	1/32	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



Screw-On Inserts

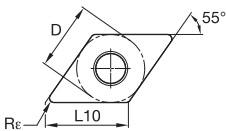
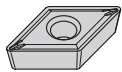
DCMT Insert • Positive • FW

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DCMT11T304FW	DCMT3251FW	9,53	3/8	11,63	.458	0,4	1/64	•
DCMT11T308FW	DCMT3252FW	9,53	3/8	11,63	.458	0,8	1/32	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



Screw-On Inserts

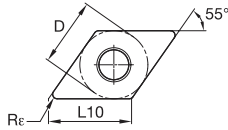
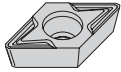
DCMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
DCMT070202LF	DCMT21505LF	6,35	1/4	7,75	.305	0,2	.008	•
DCMT070204LF	DCMT2151LF	6,35	1/4	7,75	.305	0,4	1/64	•
DCMT11T302LF	DCMT32505LF	9,53	3/8	11,63	.458	0,2	.008	•
DCMT11T304LF	DCMT3251LF	9,53	3/8	11,63	.458	0,4	1/64	•
DCMT11T308LF	DCMT3252LF	9,53	3/8	11,63	.458	0,8	1/32	•
DCMT11T312LF	DCMT3253LF	9,53	3/8	11,63	.458	1,2	3/64	•
DCMT150404LF	DCMT431LF	12,70	1/2	15,50	.610	0,4	1/64	•
DCMT150408LF	DCMT432LF	12,70	1/2	15,50	.610	0,8	1/32	•

- Primary
- Secondary

P	•
M	•
K	•
N	○
S	•
H	

KCU10B



- Primary
- Secondary

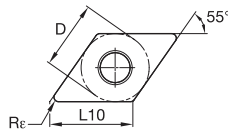
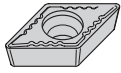
P	●
M	●
K	●
N	○
S	●
H	

KCU10B

Screw-On Inserts

DCMT Insert • Positive • MW

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
DCMT11T304MW	DCMT3251MW	9,53	3/8	11,63	.458	0,4	1/64	●
DCMT11T308MW	DCMT3252MW	9,53	3/8	11,63	.458	0,8	1/32	●



- Primary
- Secondary

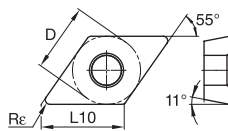
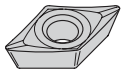
P	●
M	●
K	●
N	○
S	●
H	

KCU10B

Screw-On Inserts

DCMT Insert • Positive • UF

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
DCMT070204UF	DCMT2151UF	6,35	1/4	7,75	.305	0,4	1/64	●
DCMT11T302UF	DCMT32505UF	9,53	1/2	11,63	.458	0,2	.008	●
DCMT11T304UF	DCMT3251UF	9,53	1/2	11,63	.458	0,4	1/64	●
DCMT11T308UF	DCMT3252UF	9,53	1/4	11,63	.458	0,8	1/32	●



- Primary
- Secondary

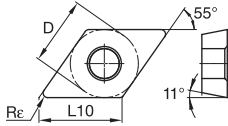
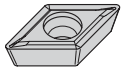
P	●
M	●
K	●
N	○
S	●
H	

KCU10B

Screw-On Inserts

DPGT Insert • Positive • HP

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
DPGT070202HP	DPGT21505HP	6,35	1/4	7,75	.305	0,2	.008	●
DPGT070204HP	DPGT2151HP	6,35	1/4	7,75	.305	0,4	1/64	●
DPGT11T304HP	DPGT3251HP	9,53	3/8	11,63	.458	0,4	1/64	●
DPGT11T308HP	DPGT3252HP	9,53	3/8	11,63	.458	0,8	1/32	●



- Primary
- Secondary

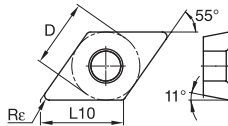
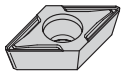
P	●
M	●
K	●
N	○
S	●
H	

KCU10B

Screw-On Inserts

DPGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
DPGT070201LF	DPGT21502LF	6,35	1/4	7,75	.305	0,1	.004	●
DPGT070202LF	DPGT21505LF	6,35	1/4	7,75	.305	0,2	.008	●
DPGT070204LF	DPGT2151LF	6,35	1/4	7,75	.305	0,4	1/64	●
DPGT11T301LF	DPGT32502LF	9,53	3/8	11,63	.458	0,1	.004	●
DPGT11T302LF	DPGT32505LF	9,53	3/8	11,63	.458	0,2	.008	●
DPGT11T304LF	DPGT3251LF	9,53	3/8	11,63	.458	0,4	1/64	●
DPGT11T308LF	DPGT3252LF	9,53	3/8	11,63	.458	0,8	1/32	●



- Primary
- Secondary

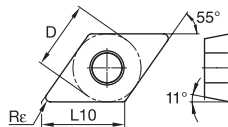
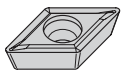
P	●
M	●
K	●
N	○
S	●
H	

KCU10B

Screw-On Inserts

DPMT Insert • Positive • FW

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
DPMT070204FW	DPMT2151FW	6,35	1/4	7,75	.305	0,4	1/64	●
DPMT070208FW	DPMT2152FW	6,35	1/4	7,75	.305	0,8	1/32	●



- Primary
- Secondary

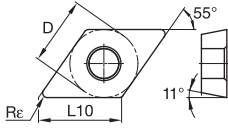
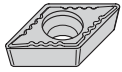
P	●
M	●
K	●
N	○
S	●
H	

KCU10B

Screw-On Inserts

DPMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
DPMT070202LF	DPMT21505LF	6,35	1/4	7,75	.305	0,2	.008	●
DPMT070204LF	DPMT2151LF	6,35	1/4	7,75	.305	0,4	1/64	●
DPMT11T302LF	DPMT32505LF	9,53	3/8	11,63	.458	0,2	.008	●
DPMT11T304LF	DPMT3251LF	9,53	3/8	11,63	.458	0,4	1/64	●
DPMT11T308LF	DPMT3252LF	9,53	3/8	11,63	.458	0,8	1/32	●



- Primary
- Secondary

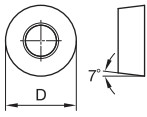
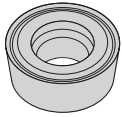
P	●
M	●
K	●
N	○
S	●
H	●

KCU10B

Screw-On Inserts

DPMT Insert • Positive • UF

ISO	ANSI	D		L10		Re		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
DPMT070204UF	DPMT2151UF	6,35	1/4	7,75	.305	0,4	1/64	●
DPMT11T304UF	DPMT3251UF	9,53	3/8	11,63	.458	0,4	1/64	●
DPMT11T308UF	DPMT3252UF	9,53	3/8	11,63	.458	0,8	1/32	●



- Primary
- Secondary

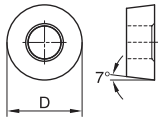
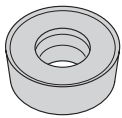
P	●
M	●
K	●
N	○
S	●
H	●

KCU10B

Screw-On Inserts

RCGH Insert • Positive

ISO	ANSI	D		L10		Re		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
RCGH120400	RCGH43	12,70	1/2	-	-	-	-	●



- Primary
- Secondary

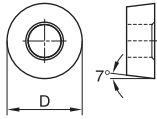
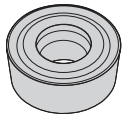
P	●
M	●
K	●
N	○
S	●
H	●

KCU10B

Screw-On Inserts

RCGT Insert • Positive • HP

ISO	ANSI	D		L10		Re		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
RCGT0803M0HP	RCGT0803M0HP	8,00	1/3	-	-	-	-	●
RCGT10T3M0HP	RCGT10T3M0HP	10,00	2/5	-	-	-	-	●
RCGT1204M0HP	RCGT1204M0HP	12,00	1/2	-	-	-	-	●



- Primary
- Secondary

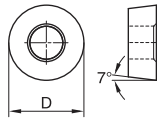
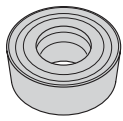
P	●
M	●
K	●
N	○
S	●
H	●

Screw-On Inserts

RCGT Insert • Positive • MS

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
RCGT0803MOMS	RCGT0803MOMS	8,00	1/3	-	-	-	-	●
RCGT1204MOMS	RCGT1204MOMS	12,00	1/2	-	-	-	-	●

KCU10B



- Primary
- Secondary

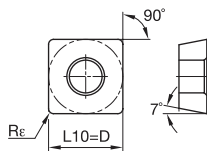
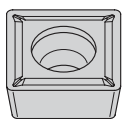
P	●
M	●
K	●
N	○
S	●
H	●

Screw-On Inserts

RCMT Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
RCMT0602M0	RCMT0602M0	6,00	1/4	-	-	-	-	●
RCMT060200	RCMT215	6,35	1/4	-	-	-	-	●
RCMT0803M0	RCMT0803M0	8,00	1/3	-	-	-	-	●
RCMT09T300	RCMT325	9,53	3/8	-	-	-	-	●
RCMT10T3M0	RCMT10T3M0	10,00	2/5	-	-	-	-	●
RCMT1204M0	RCMT1204M0	12,00	1/2	-	-	-	-	●
RCMT120400	RCMT43	12,70	1/2	-	-	-	-	●
RCMT1605M0	RCMT1605M0	16,00	5/8	-	-	-	-	●
RCMT2006M0	RCMT2006M0	20,00	4/5	-	-	-	-	●

KCU10B



- Primary
- Secondary

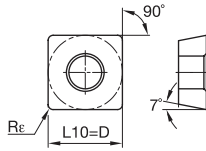
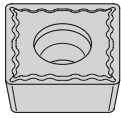
P	●
M	●
K	●
N	○
S	●
H	●

Screw-On Inserts

SCMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		R _ε		
		mm	in	mm	in	mm	in	
SCMT09T304LF	SCMT3251LF	9,53	3/8	9,53	.375	0,4	1/64	●
SCMT09T308LF	SCMT3252LF	9,53	3/8	9,53	.375	0,8	1/32	●
SCMT120404LF	SCMT431LF	12,70	1/2	12,70	.500	0,4	1/64	●
SCMT120408LF	SCMT432LF	12,70	1/2	12,70	.500	0,8	1/32	●
SCMT120412LF	SCMT433LF	12,70	1/2	12,70	.500	1,2	3/64	●

KCU10B



- Primary
- Secondary

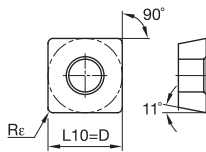
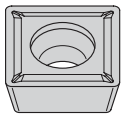
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

Screw-On Inserts

SCMT Insert • Positive • UF

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
SCMT09T304UF	SCMT3251UF	9,53	3/8	9,53	.375	0,4	1/64	●
SCMT09T308UF	SCMT3252UF	9,53	3/8	9,53	.375	0,8	1/32	●



- Primary
- Secondary

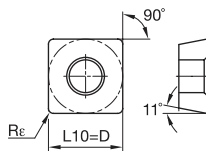
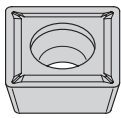
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

Screw-On Inserts

SPGT Insert • Positive • LF

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
SPGT09T304LF	SPGT3251LF	9,53	3/8	9,53	.375	0,4	1/64	●
SPGT09T308LF	SPGT3252LF	9,53	3/8	9,53	.375	0,8	1/32	●



- Primary
- Secondary

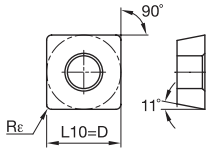
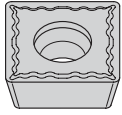
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

KCU10B

Screw-On Inserts

SPMT Insert • Positive • LF

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
SPMT09T304LF	SPMT3251LF	9,53	3/8	9,53	.375	0,4	1/64	●
SPMT09T308LF	SPMT3252LF	9,53	3/8	9,53	.375	0,8	1/32	●



- Primary
- Secondary

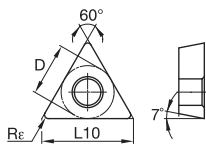
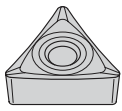
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

SPMT Insert • Positive • UF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SPMT09T304UF	SPMT3251UF	9,53	3/8	9,53	.375	0,4	1/64	●
SPMT09T308UF	SPMT3252UF	9,53	3/8	9,53	.375	0,8	1/32	●

KCU10B



- Primary
- Secondary

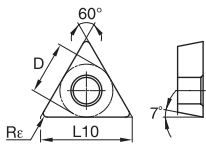
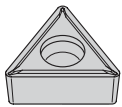
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TCGT Insert • Positive • HP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TCGT110202HP	TCGT21505HP	6,35	1/4	11,00	.433	0,2	.008	●
TCGT110204HP	TCGT2151HP	6,35	1/4	11,00	.433	0,4	1/64	●
TCGT110208HP	TCGT2152HP	6,35	1/4	11,00	.433	0,8	1/32	●
TCGT16T302HP	TCGT32505HP	9,53	3/8	16,50	.650	0,2	.008	●
TCGT16T304HP	TCGT3251HP	9,53	3/8	16,50	.650	0,4	1/64	●
TCGT16T308HP	TCGT3252HP	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

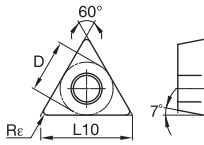
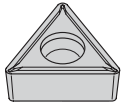
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TCGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TCGT110201LF	TCGT21502LF	6,35	1/4	11,00	.433	0,1	.004	●
TCGT110202LF	TCGT21505LF	6,35	1/4	11,00	.433	0,2	.008	●
TCGT110204LF	TCGT2151LF	6,35	1/4	11,00	.433	0,4	1/64	●
TCGT110208LF	TCGT2152LF	6,35	1/4	11,00	.433	0,8	1/32	●
TCGT16T302LF	TCGT32505LF	9,53	3/8	16,50	.650	0,2	.008	●
TCGT16T304LF	TCGT3251LF	9,53	3/8	16,50	.650	0,4	1/64	●
TCGT16T308LF	TCGT3252LF	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

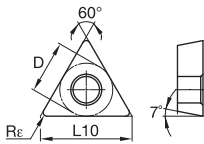
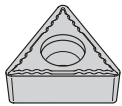
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TCMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TCMT110202LF	TCMT21505LF	6,35	1/4	11,00	.433	0,2	.008	●
TCMT110204LF	TCMT2151LF	6,35	1/4	11,00	.433	0,4	1/64	●
TCMT110208LF	TCMT2152LF	6,35	1/4	11,00	.433	0,8	1/32	●
TCMT16T302LF	TCMT32505LF	9,53	3/8	16,50	.650	0,2	.008	●
TCMT16T304LF	TCMT3251LF	9,53	3/8	16,50	.650	0,4	1/64	●
TCMT16T308LF	TCMT3252LF	9,53	3/8	16,50	.650	0,8	1/32	●
TCMT16T312LF	TCMT3253LF	9,53	3/8	16,50	.650	1,2	3/64	●
TCMT220408LF	TCMT432LF	12,70	1/2	22,00	.866	0,8	1/32	●

KCU10B



- Primary
- Secondary

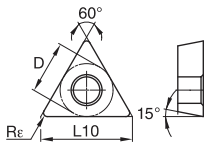
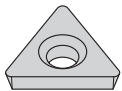
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TCMT Insert • Positive • UF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TCMT110204UF	TCMT2151UF	6,35	1/4	11,00	.433	0,4	1/64	●
TCMT110208UF	TCMT2152UF	6,35	1/4	11,00	.433	0,8	1/32	●
TCMT16T308UF	TCMT3252UF	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

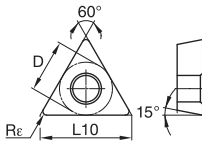
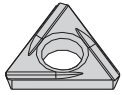
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TDHB Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TDHB07T12S0	TDHB12807501	4,06	1/6	7,04	.277	0,1	.004	●
TDHB07T1202	TDHB12807505	4,06	1/6	7,04	.277	0,2	.008	●
TDHB07T1204	TDHB1280751	4,06	1/6	7,04	.277	0,4	1/64	●

KCU10B



- Primary
- Secondary

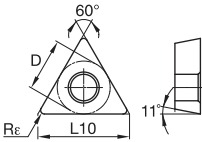
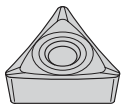
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TDHH Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TDHH07T1202L	TDHH12807505L	4,06	1/6	7,04	.277	0,2	.008	●
TDHH07T1202R	TDHH12807505R	4,06	1/6	7,04	.277	0,2	.008	●
TDHH07T1204L	TDHH1280751L	4,06	1/6	7,04	.277	0,4	1/64	●
TDHH07T1204R	TDHH1280751R	4,06	1/6	7,04	.277	0,4	1/64	●

KCU10B



- Primary
- Secondary

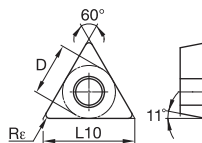
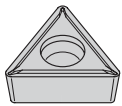
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPGT Insert • Positive • HP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TPGT110202HP	TPGT21505HP	6,35	1/4	11,00	.433	0,2	.008	●
TPGT110204HP	TPGT2151HP	6,35	1/4	11,00	.433	0,4	1/64	●
TPGT110208HP	TPGT2152HP	6,35	1/4	11,00	.433	0,8	1/32	●
TPGT16T302HP	TPGT32505HP	9,53	3/8	16,50	.650	0,2	.008	●
TPGT16T304HP	TPGT3251HP	9,53	3/8	16,50	.650	0,4	1/64	●
TPGT16T308HP	TPGT3252HP	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

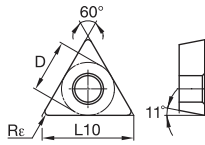
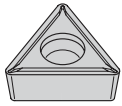
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TPGT090202LF	TPGT181505LF	5,56	2/9	9,62	.379	0,2	.008	●
TPGT090204LF	TPGT18151LF	5,56	2/9	9,62	.379	0,4	1/64	●
TPGT110201LF	TPGT21502LF	6,35	1/4	11,00	.433	0,1	.004	●
TPGT110202LF	TPGT21505LF	6,35	1/4	11,00	.433	0,2	.008	●

KCU10B



Continued

- Primary
- Secondary

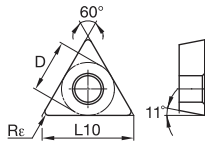
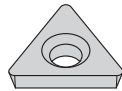
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TPGT110204LF	TPGT2151LF	6,35	1/4	11,00	.433	0,4	1/64	●
TPGT110208LF	TPGT2152LF	6,35	1/4	11,00	.433	0,8	1/32	●
TPGT16T304LF	TPGT3251LF	9,53	3/8	16,50	.650	0,4	1/64	●
TPGT16T308LF	TPGT3252LF	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

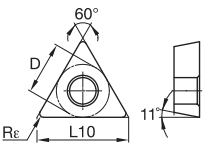
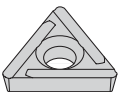
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPCB Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TPCB1102S0	TPCB2201	6,35	1/4	11,00	.433	0,1	.004	●
TPCB110202	TPCB2205	6,35	1/4	11,00	.433	0,2	.008	●
TPCB160302	TD6P05	9,53	3/8	16,50	.650	0,2	.008	●
TPCB160304	TD6P1	9,53	3/8	16,50	.650	0,4	1/64	●
TPCB160308	TD6P2	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

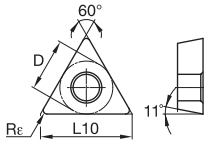
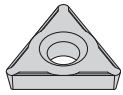
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPCG Insert • Positive

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TPCG110202L	TPCG2205L	6,35	1/4	11,00	.433	0,2	.008	●
TPCG110204L	TPCG221L	6,35	1/4	11,00	.433	0,4	1/64	●
TPCG110208L	TPCG222L	6,35	1/4	11,00	.433	0,8	1/32	●
TPCG160304L	TPCG321L	9,53	3/8	16,50	.650	0,4	1/64	●
TPCG160304R	TPCG321R	9,53	3/8	16,50	.650	0,4	1/64	●

KCU10B



- Primary
- Secondary

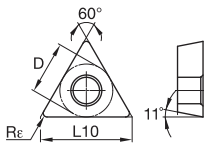
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPCH Insert • Positive

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
TPCH110202	TPCH2205	6,35	1/4	11,00	.433	0,2	.008	●
TPCH110204	TPCH221	6,35	1/4	11,00	.433	0,4	1/64	●

KCU10B



- Primary
- Secondary

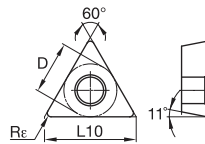
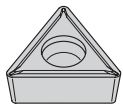
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPGH Insert • Positive

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
TPGH160304	TPGH321	9,53	3/8	16,50	.650	0,4	1/64	●
TPGH160308	TPGH322	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

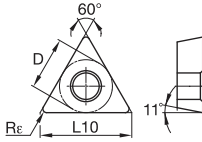
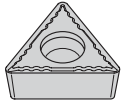
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPMT Insert • Positive • LF

ISO	ANSI	D		L10		Rε		
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
TPMT090202LF	TPMT181505LF	5,56	2/9	9,63	.379	0,2	.008	●
TPMT090204LF	TPMT18151LF	5,56	2/9	9,63	.379	0,4	1/64	●
TPMT110202LF	TPMT21505LF	6,35	1/4	11,00	.433	0,2	.008	●
TPMT110204LF	TPMT2151LF	6,35	1/4	11,00	.433	0,4	1/64	●
TPMT110208LF	TPMT2152LF	6,35	1/4	11,00	.433	0,8	1/32	●
TPMT16T304LF	TPMT3251LF	9,53	3/8	16,50	.650	0,4	1/64	●
TPMT16T308LF	TPMT3252LF	9,53	3/8	16,50	.650	0,8	1/32	●
TPMT220408LF	TPMT432LF	12,70	1/2	22,00	.866	0,8	1/32	●

KCU10B



- Primary
- Secondary

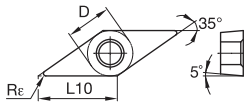
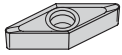
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

TPMT Insert • Positive • UF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TPMT110204UF	TPMT2151UF	6,35	1/4	11,00	.433	0,4	1/64	●
TPMT110208UF	TPMT2152UF	6,35	1/4	11,00	.433	0,8	1/32	●
TPMT16T308UF	TPMT3252UF	9,53	3/8	16,50	.650	0,8	1/32	●

KCU10B



- Primary
- Secondary

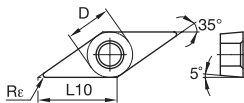
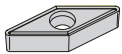
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

VBGT Insert • Positive • HP

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VBGT110301HP	VBGT2202HP	6,35	1/4	11,07	.436	0,1	.004	●
VBGT110302HP	VBGT2205HP	6,35	1/4	11,07	.436	0,2	.008	●
VBGT110304HP	VBGT221HP	6,35	1/4	10,95	.431	0,4	1/64	●
VBGT160404HP	VBGT331HP	9,53	3/8	16,61	.654	0,4	1/64	●
VBGT160408HP	VBGT332HP	9,53	3/8	16,61	.654	0,8	1/32	●

KCU10B



- Primary
- Secondary

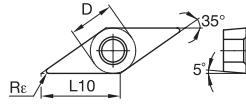
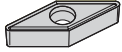
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

VBGT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VBGT110301LF	VBGT2202LF	6,35	1/4	11,07	.436	0,1	.004	●
VBGT110302LF	VBGT2205LF	6,35	1/4	11,07	.436	0,2	.008	●
VBGT110304LF	VBGT221LF	6,35	1/4	11,07	.436	0,4	1/64	●
VBGT160401LF	VBGT3302LF	9,53	3/8	16,61	.654	0,1	.004	●
VBGT160402LF	VBGT3305LF	9,53	3/8	16,61	.654	0,2	.008	●
VBGT160404LF	VBGT331LF	9,53	3/8	16,61	.654	0,4	1/64	●
VBGT160408LF	VBGT332LF	9,53	3/8	16,61	.654	0,8	1/32	●

KCU10B



- Primary
- Secondary

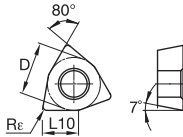
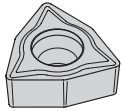
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

VBMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
VBMT110302LF	VBMT2205LF	6,35	1/4	11,07	.436	0,2	.008	●
VBMT110304LF	VBMT2211LF	6,35	1/4	11,07	.436	0,4	1/64	●
VBMT110308LF	VBMT222LF	6,35	1/4	11,07	.436	0,8	1/32	●
VBMT160402LF	VBMT3305LF	9,53	3/8	16,61	.654	0,2	.008	●
VBMT160404LF	VBMT331LF	9,53	3/8	16,61	.654	0,4	1/64	●
VBMT160408LF	VBMT332LF	9,53	3/8	16,61	.654	0,8	1/32	●

KCU10B



- Primary
- Secondary

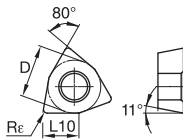
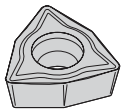
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

WCMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WCMT040204LF	WCMT2151LF	6,35	1/4	4,34	.171	0,4	1/64	●
WCMT06T308LF	WCMT3252LF	9,53	3/8	6,52	.257	0,8	1/32	●

KCU10B



- Primary
- Secondary

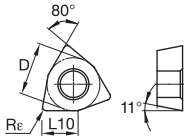
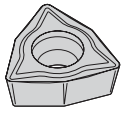
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Screw-On Inserts

WPGT Insert • Positive • UF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WPGTS30101UF	WPGT15102UF	4,76	1/5	3,26	.128	0,1	.004	●
WPGTS30102UF	WPGT15105UF	4,76	1/5	3,26	.128	0,2	.008	●
WPGT040201UF	WPGT21502UF	6,35	1/4	4,34	.171	0,1	.004	●
WPGT040202UF	WPGT21505UF	6,35	1/4	4,34	.171	0,2	.008	●

KCU10B



- Primary
- Secondary

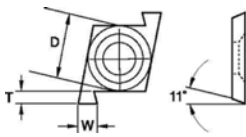
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

WPMT Insert • Positive • LF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
WPMT040204LF	WPMT2151LF	6,35	1/4	4,34	.171	0,4	1/64	●
WPMT06T304LF	WPMT3251LF	9,53	3/8	6,52	.257	0,4	1/64	●
WPMT06T308LF	WPMT3252LF	9,53	3/8	6,52	.257	0,8	1/32	●

KCU10B



- Primary
- Secondary

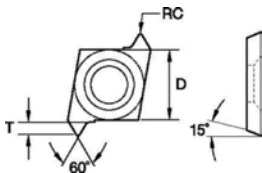
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

Micro Grooving Insert

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CPG190150R	CPG20602R	6,35	1/4	1,7	.065	1,52	.060	●
CDG127076R	CDG120302R	3,96	.156	1,0	.040	0,76	.030	●

KCU10B



- Primary
- Secondary

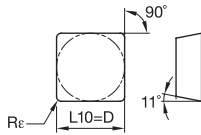
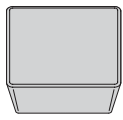
P	●
M	●
K	●
N	○
S	●
H	

Screw-On Inserts

Micro Threading Insert

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
CDT127005R	CDT120022R	3,96	.156	0,6	.025	0,05	.002	●
CPT190013R	CPT20052R	6,35	1/4	1,7	.065	0,13	.005	●

KCU10B



- Primary
- Secondary

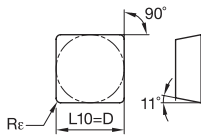
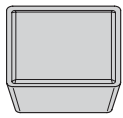
P	●
M	●
K	●
N	○
S	●
H	●

Kendex™ Positive Inserts

SPGN/SPG

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SPGN120304	SPG421	12,70	1/2	12,70	.500	0,4	1/64	●
SPGN120308	SPG422	12,70	1/2	12,70	.500	0,8	1/32	●
SPGN120412	SPG433	12,70	1/2	12,70	.500	1,2	3/64	●
SPGN190412	SPG633	19,05	3/4	19,05	.750	1,2	3/64	●

KCU10B



- Primary
- Secondary

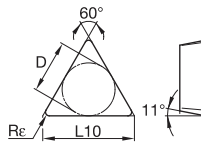
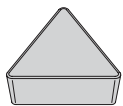
P	●
M	●
K	●
N	○
S	●
H	●

Kendex™ Positive Inserts

SPGR-K/SPGF

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
SPGR090308K	SPGF322	9,53	3/8	9,53	.375	0,8	1/32	●

KCU10B



- Primary
- Secondary

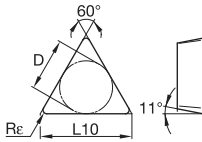
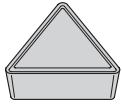
P	●
M	●
K	●
N	○
S	●
H	●

Kendex™ Positive Inserts

TPGN/TPG

ISO Catalog Number	ANSI Catalog Number	D		L10		Rε		
		mm	in	mm	in	mm	in	
TPGN110304	TPG221	6,35	1/4	11,00	.433	0,4	1/64	●
TPGN110308	TPG222	6,35	1/4	11,00	.433	0,8	1/32	●
TPGN160302	TPG3205	9,53	3/8	16,50	.650	0,2	.008	●
TPGN160304	TPG321	9,53	3/8	16,50	.650	0,4	1/64	●
TPGN160308	TPG322	9,53	3/8	16,50	.650	0,8	1/32	●
TPGN160312	TPG323	9,53	3/8	16,50	.650	1,2	3/64	●
TPGN160316	TPG324	9,53	3/8	16,50	.650	1,6	1/16	●
TPGN220404	TPG431	12,70	1/2	22,00	.866	0,4	1/64	●
TPGN220408	TPG432	12,70	1/2	22,00	.866	0,8	1/32	●
TPGN220412	TPG433	12,70	1/2	22,00	.866	1,2	3/64	●

KCU10B



- Primary
- Secondary

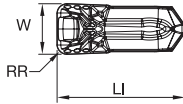
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Kendex™ Positive Inserts

TPGR-K/TPGF

ISO	ANSI	D		L10		Re		●
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	
TPGR110304K	TPGF221	6,35	1/4	11,00	.433	0,4	1/64	●
TPGR160304K	TPGF321	9,53	3/8	16,50	.650	0,4	1/64	●
TPGR220404K	TPGF431	12,70	1/2	22,00	.866	0,4	1/64	●

KCU10B



- Primary
- Secondary

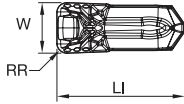
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Beyond™ Evolution™ Grooving Inserts

GUP Precision Molded • **METRIC**

Catalog Number	Seat Size	W		W tol ±		RR		LI		●
		mm	in	mm	in	mm	in	mm	in	
EG0212M02U02GUP	2	2,125	.084	0,050	.002	0,20	.008	8,97	.353	●
EG0251M02U02GUP	2	2,511	.099	0,050	.002	0,20	.008	8,97	.353	●
EG0312M03U02GUP	3	3,125	.123	0,075	.003	0,20	.008	9,60	.378	●
EG0312M03U04GUP	3	3,125	.123	0,075	.003	0,40	.016	9,60	.378	●
EG0412M04U04GUP	4	4,125	.162	0,075	.003	0,40	.016	10,19	.401	●
EG0412M04U08GUP	4	4,152	.162	0,075	.003	0,80	.031	10,19	.401	●
EG0512M05U04GUP	5	5,125	.202	0,075	.003	0,40	.016	12,25	.482	●
EG0512M05U08GUP	5	5,125	.202	0,075	.003	0,80	.031	12,25	.482	●
EG0612M06U04GUP	6	6,125	.241	0,075	.003	0,40	.016	14,60	.575	●
EG0612M06U08GUP	6	6,125	.241	0,075	.003	0,80	.031	14,60	.574	●
EG0712M06U08GUP	6	7,125	.281	0,075	.003	0,80	.032	14,60	.574	●
EG0812M08U08GUP	8	8,125	.320	0,075	.003	0,80	.031	17,47	.688	●
EG0812M08U12GUP	8	8,125	.320	0,075	.003	1,18	.046	17,45	.687	●
EG1012M10U12GUP	10	10,125	.399	0,075	.003	1,20	.047	20,80	.817	●

KCU10B



- Primary
- Secondary

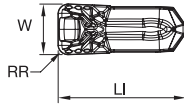
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

KCU10B

Beyond™ Evolution™ Grooving Inserts

GUP Precision Ground • **METRIC**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
EG0200M02P02GUP	2	2,000	.079	0,025	0.001	0.2	.008	8,80	.347	●
EG0300M03P02GUP	3	3,000	.118	0,025	.001	0.2	.008	9,40	.372	●
EG0300M03P04GUP	3	3,000	.118	0,025	.001	0.4	.016	9,60	.376	●
EG0400M04P04GUP	4	4,000	.158	0,025	.001	0.4	.016	10,10	.399	●
EG0400M04P08GUP	4	4,000	.158	0,025	.001	0.8	.032	10,10	.399	●
EG0500M05P04GUP	5	5,000	.197	0,025	.001	0.4	.016	12,20	.480	●
EG0500M05P08GUP	5	5,000	.197	0,025	.001	0.8	.032	12,20	.480	●
EG0600M06P04GUP	6	6,000	.236	0,025	.001	0.4	.016	14,50	.572	●
EG0600M06P08GUP	6	6,000	.236	0,025	.001	0.8	.032	14,50	.572	●
EG0700M06P08GUP	6	7,000	.276	0,025	.001	0.8	.031	14,50	.572	●
EG0800M08P08GUP	8	8,000	.315	0,025	.001	0.8	.031	17,40	.685	●
EG0800M08P12GUP	8	8,000	.315	0,025	.001	1.2	.047	17,40	.685	●
EG1000M10P12GUP	10	10,000	.394	0,025	.001	1.2	.047	20,70	.815	●



- Primary
- Secondary

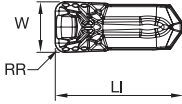
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

KCU10B

Beyond™ Evolution™ Grooving Inserts

GUP Precision Molded • **INCH**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
EG130I03U05GUP	3	3,301	.130	0,075	.003	0,20	.008	9,60	.378	●
EG130I03U1GUP	3	3,301	.130	0,075	.003	0,40	.016	9,60	.378	●
EG192I04U1GUP	4	4,877	.192	0,075	.003	0,40	.016	10,19	.401	●
EG192I04U2GUP	4	4,877	.192	0,075	.003	0,79	.031	10,19	.401	●
EG255I06U1GUP	6	6,478	.255	0,075	.003	0,40	.016	14,58	.574	●
EG255I06U2GUP	6	6,478	.255	0,075	.003	0,80	.031	14,58	.574	●
EG317I08U3GUP	8	8,051	.317	0,075	.003	1,19	.047	17,46	.687	●



- Primary
- Secondary

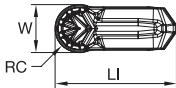
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Beyond™ Evolution™ Grooving Inserts

GUP Precision Ground • **INCH**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
EG06311FP05GUP	1F	1,600	.063	0,025	.001	0,2	.008	9,00	.353	●
EG094I02P05GUP	2	2,388	.094	0,025	.001	0,2	.008	8,88	.350	●
EG125I03P05GUP	3	3,175	.125	0,025	.001	0,20	.008	9,40	.376	●
EG125I03P1GUP	3	3,175	.125	0,025	.001	0,40	.016	9,40	.372	●
EG187I04P1GUP	4	4,760	.188	0,025	.001	0,40	.016	10,10	.399	●
EG187I04P2GUP	4	4,762	.188	0,025	.001	0,79	.031	10,10	.399	●
EG250I06P1GUP	6	6,350	.250	0,025	.001	0,40	.016	14,50	.572	●
EG250I06P2GUP	6	6,350	.250	0,025	.001	0,80	.031	14,50	.572	●
EG375I10P3GUP	10	9,525	.375	0,025	.001	1,20	.047	20,70	.815	●

KCU10B



- Primary
- Secondary

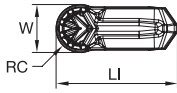
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Beyond™ Evolution™ Grooving Inserts

GUP Full Radius Precision Molded • **METRIC**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
ER0212M02U00GUP	2	2,120	.084	0,050	.002	1,060	.04	8,97	.353	●
ER0312M03U00GUP	3	3,125	.123	0,075	.003	1,560	.06	9,60	.378	●
ER0412M04U00GUP	4	4,125	.162	0,075	.003	2,060	.08	10,20	.401	●
ER0512M05U00GUP	5	5,125	.202	0,075	.003	2,560	.10	12,20	.482	●
ER0612M06U00GUP	6	6,125	.241	0,075	.003	3,060	.12	14,60	.575	●
ER0812M08U00GUP	8	8,125	.320	0,075	.003	4,060	.16	17,50	.688	●

KCU10B



- Primary
- Secondary

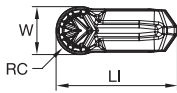
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Beyond™ Evolution™ Grooving Inserts

GUP Full Radius Precision Ground • **METRIC**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
ER0200M02P00GUP	2	2,000	.079	0,025	.001	1,000	.04	8,91	.351	●
ER0300M03P00GUP	3	3,000	.118	0,025	.001	1,500	.06	9,50	.376	●
ER0400M04P00GUP	4	4,000	.157	0,025	.001	2,000	.08	10,10	.399	●
ER0500M05P00GUP	5	5,000	.197	0,025	.001	2,500	.10	12,20	.480	●
ER0600M06P00GUP	6	6,000	.236	0,025	.001	3,000	.12	14,50	.572	●
ER0800M08P00GUP	8	8,000	.315	0,025	.001	4,000	.16	17,40	.685	●

KCU10B



- Primary
- Secondary

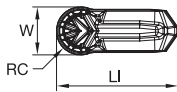
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Beyond™ Evolution™ Grooving Inserts

GUP Full Radius Precision Molded • **INCH**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
ER130I03U00GUP	3	3,302	.130	0,075	.003	1,650	.07	9,60	.378	●
ER192I04U00GUP	4	4,878	.192	0,075	.003	2,440	.10	10,20	.401	●
ER255I06U00GUP	6	6,478	.255	0,075	.003	3,240	.13	14,60	.575	●
ER317I08U00GUP	8	8,052	.317	0,075	.003	4,030	.16	17,50	.688	●

KCU10B



- Primary
- Secondary

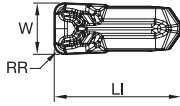
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Beyond™ Evolution™ Grooving Inserts

GUP Full Radius Precision Ground • **INCH**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
ER125I03P00GUP	3	3,175	.125	0,025	.001	1,590	.06	9,50	.376	●
ER187I04P00GUP	4	4,762	.187	0,025	.001	2,380	.09	10,10	.399	●
ER250I06P00GUP	6	6,350	.250	0,025	.001	3,170	.13	14,50	.572	●
ER312I08P00GUP	8	7,920	.312	0,025	.001	3,960	.16	17,40	.685	●

KCU10B



- Primary
- Secondary

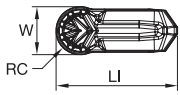
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Beyond™ Evolution™ Grooving Inserts

GUN Precision Molded • **METRIC**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
EG0212M02U02GUN	2	2,125	.084	0,050	.002	0,20	.008	8,97	.353	●
EG0251M02U02GUN	2	2,510	.099	0,050	.002	0,20	.008	8,97	.353	●
EG0312M03U02GUN	3	3,125	.123	0,075	.003	0,20	.008	9,60	.378	●
EG0312M03U04GUN	3	3,125	.123	0,075	.003	0,40	.016	9,60	.378	●
EG0412M04U04GUN	4	4,125	.162	0,075	.003	0,40	.016	10,19	.401	●
EG0412M04U08GUN	4	4,125	.162	0,075	.003	0,80	.031	10,19	.401	●
EG0512M05U04GUN	5	5,125	.202	0,075	.003	0,40	.016	12,20	.481	●
EG0512M05U08GUN	5	5,125	.202	0,075	.003	0,80	.031	12,20	.481	●
EG0612M06U04GUN	6	6,125	.241	0,075	.003	0,40	.016	14,60	.575	●
EG0612M06U08GUN	6	6,125	.241	0,075	.003	0,80	.031	14,60	.574	●
EG0812M08U08GUN	8	8,125	.320	0,075	.003	0,80	.031	17,50	.687	●
EG0812M08U12GUN	8	8,125	.320	0,075	.003	1,20	.047	17,50	.687	●
EG1012M10U12GUN	10	10,125	.399	0,075	.003	1,20	.047	20,80	.817	●

KCU10B



- Primary
- Secondary

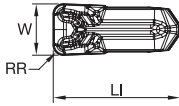
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Beyond™ Evolution™ Grooving Inserts

GUN Full Radius Precision Molded • **METRIC**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
ER0212M02U00GUN	2	2,120	.083	0,050	.002	1,060	.04	8,97	.353	●
ER0312M03U00GUN	3	3,125	.123	0,075	.003	1,560	.06	9,60	.378	●
ER0412M04U00GUN	4	4,125	.162	0,075	.003	2,060	.08	10,20	.401	●
ER0512M05U00GUN	5	5,125	.202	0,075	.003	2,560	.10	12,20	.482	●
ER0612M06U00GUN	6	6,125	.241	0,075	.003	3,060	.12	14,60	.575	●
ER0812M08U00GUN	8	8,125	.320	0,075	.003	4,060	.16	17,47	.688	●

KCU10B



- Primary
- Secondary

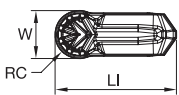
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Beyond™ Evolution™ Grooving Inserts

GUN Precision Molded • **METRIC**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
EG06311FU05GUN	1F	1,600	.063	0,050	.002	0,20	.008	9,00	.355	●
EG094I02U05GUN	2	2,388	.094	0,050	.002	0,20	.008	8,97	.353	●
EG125I03U05GUN	3	3,175	.125	0,075	.003	0,20	.008	9,60	.378	●
EG125I03U1GUN	3	3,175	.125	0,075	.003	0,40	.016	9,60	.378	●
EG130I03U05GUN	3	3,302	.130	0,075	.003	0,20	.008	9,60	.378	●
EG130I03U1GUN	3	3,302	.130	0,075	.003	0,40	.016	9,60	.378	●
EG187I04U1GUN	4	4,750	.187	0,075	.003	0,40	.016	10,20	.401	●
EG187I04U2GUN	4	4,750	.187	0,075	.003	0,80	.032	10,19	.401	●
EG192I04U1GUN	4	4,877	.192	0,075	.003	0,40	.016	10,19	.401	●
EG192I04U2GUN	4	4,878	.192	0,075	.003	0,79	.031	10,19	.401	●
EG250I06U1GUN	6	6,350	.250	0,075	.003	0,40	.016	14,58	.574	●
EG250I06U2GUN	6	6,350	.250	0,075	.003	0,80	.032	14,58	.574	●
EG255I06U2GUN	6	6,477	.255	0,075	.003	0,80	.031	14,58	.574	●
EG312I08U3GUN	8	7,925	.312	0,075	.003	1,20	.047	17,46	.687	●
EG317I08U3GUN	8	8,052	.317	0,075	.003	1,19	.047	17,46	.687	●
EG375I10U3GUN	10	9,525	.375	0,075	.003	1,20	.047	20,80	.817	●

KCU10B



- Primary
- Secondary

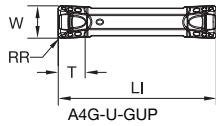
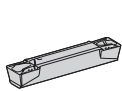
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Beyond™ Evolution™ Grooving Inserts

GUN Full Radius Precision Molded • **INCH**

Catalog Number	Seat Size	W		W tol ±		RR		LI		
		mm	in	mm	in	mm	in	mm	in	
ER094I02U00GUN	2	2,387	.094	0,050	.002	1,190	.05	8,97	.353	●
ER125I03U00GUN	3	3,177	.125	0,075	.003	1,590	.06	9,60	.378	●
ER130I03U00GUN	3	3,300	.130	0,075	.003	1,650	.07	9,60	.378	●
ER187I04U00GUN	4	4,750	.187	0,075	.003	2,370	.09	10,20	.400	●
ER192I04U00GUN	4	4,873	.192	0,075	.003	2,440	.10	10,20	.401	●
ER250I06U00GUN	6	6,346	.250	0,075	.003	3,170	.13	14,60	.575	●
ER312I08U00GUN	8	7,925	.312	0,075	.003	3,960	.16	17,50	.688	●
ER317I08U00GUN	8	8,052	.317	0,075	.003	4,030	.16	17,50	.688	●

KCU10B



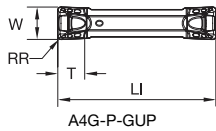
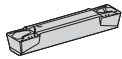
- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

A4™ Grooving & Turning Inserts

GUP Precision Molded

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0205M02U02GUP	2	2,05	.084	0,2	.008	20	.79	2,0	.079	●
A4G0305M03U02GUP	3	3,05	.120	0,2	.008	20	.79	3,0	.118	●
A4G0305M03U04GUP	3	3,05	.120	0,4	.016	20	.79	3,0	.118	●
A4G0405M04U04GUP	4	4,05	.159	0,4	.016	20	.79	3,4	.134	●
A4G0405M04U08GUP	4	4,05	.159	0,8	.031	20	.79	3,4	.134	●
A4G0505M05U04GUP	5	5,05	.199	0,4	.016	25	.99	4,2	.165	●
A4G0505M05U08GUP	5	5,05	.199	0,8	.031	25	.99	4,2	.165	●
A4G0605M06U04GUP	6	6,05	.238	0,4	.016	30	1.19	4,5	.177	●
A4G0605M06U08GUP	6	6,05	.238	0,8	.031	30	1.19	4,5	.177	●
A4G0605M06U12GUP	6	6,05	.238	1,02	.047	30	1.19	4,5	.177	●
A4G0805M08U08GUP	8	8,05	.317	0,8	.031	30	1.19	6,0	.236	●
A4G0805M08U12GUP	8	8,05	.317	1,02	.047	30	1.19	6,0	.236	●
A4G1005M10U08GUP	10	10,05	.396	0,8	.031	30	1.19	6,0	.236	●



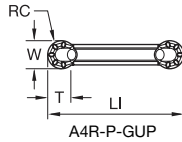
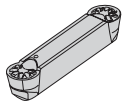
- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

A4™ Grooving & Turning Inserts

GUP Precision Ground

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0200M02P02GUP	2	2,00	.079	0,2	.008	20	.79	1,9	.075	●
A4G0300M03P02GUP	3	3,00	.118	0,2	.008	20	.79	2,9	.115	●
A4G0300M03P04GUP	3	3,00	.118	0,4	.016	20	.79	2,9	.115	●
A4G0400M04P02GUP	4	4,00	.158	0,2	.008	20	.79	3,3	.130	●
A4G0400M04P04GUP	4	4,00	.158	0,4	.016	20	.79	3,3	.130	●
A4G0400M04P08GUP	4	4,00	.157	0,8	.032	20	.79	3,3	.130	●
A4G0500M05P04GUP	5	5,00	.197	0,4	.016	25	.98	4,1	.162	●
A4G0500M05P08GUP	5	5,00	.197	0,8	.031	25	.98	4,1	.163	●
A4G0600M06P04GUP	6	6,00	.236	0,4	.016	30	1.18	4,4	.175	●
A4G0600M06P08GUP	6	6,00	.236	0,8	.032	30	1.18	4,4	.175	●
A4G0800M08P08GUP	8	8,00	.315	0,8	.032	30	1.18	5,9	.234	●
A4G0800M08P12GUP	8	8,00	.315	1,2	.048	30	1.18	5,9	.234	●
A4G1000M10P08GUP	10	10,00	.394	0,8	.031	30	1.18	6,0	.235	●
A4G1000M10P12GUP	10	10,00	.394	1,2	.048	30	1.18	5,9	.234	●



- Primary
- Secondary

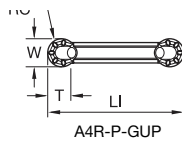
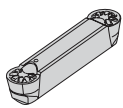
P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GUP Full Radius Precision Molded

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4R0305M03U00GUP	3	3,05	.120	1,5	.060	20	.79	-	-	●
A4R0505M05U00GUP	5	5,05	.199	2,5	.099	25	.99	-	-	●

KCU10B



- Primary
- Secondary

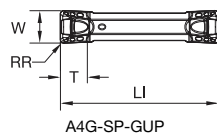
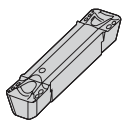
P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GUP Full Radius Precision Ground

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4R0300M03P00GUP	3	3,00	.118	1,5	.059	20	.79	-	-	●
A4R125I03P00GUP	3	3,18	.125	1,6	.063	20	.79	-	-	●
A4R0400M04P00GUP	4	4,00	.157	2,0	.079	20	.79	-	-	●
A4R0600M06P00GUP	6	6,00	.236	3,0	.118	30	1.18	-	-	●
A4R250I06P00GUP	6	6,35	.250	3,2	.125	30	1.18	-	-	●
A4R1000M10P00GUP	10	10,00	.394	5,0	.197	30	1.18	-	-	●

KCU10B



- Primary
- Secondary

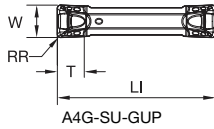
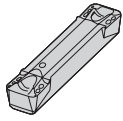
P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GUP Precision Molded • Small Diameter Face Grooving

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0205M2SU02GUP	2S	2,05	.081	0,2	.008	20	.79	2,0	.079	●
A4G0305M3SU02GUP	3S	3,05	.120	0,2	.008	20	.79	3,0	.118	●
A4G0305M3SU04GUP	3S	3,05	.120	0,4	.016	20	.79	3,0	.118	●
A4G0405M4SU04GUP	4S	4,05	.159	0,4	.016	20	.79	3,4	.134	●
A4G0505M5SU04GUP	5S	5,05	.199	0,4	.016	25	.99	4,2	.165	●

KCU10B



A4G-SU-GUP

- Primary
- Secondary

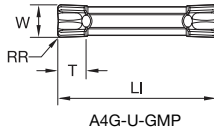
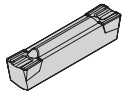
P	●
M	●
K	●
N	○
S	●
H	●

A4™ Grooving & Turning Inserts

GUP Precision Ground • Small Diameter Face Grooving

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0200M2SP02GUP	2S	2,00	.079	0,2	.008	20	.79	1,9	.075	●
A4G0300M3SP02GUP	3S	3,00	.118	0,2	.008	20	.79	2,9	.115	●
A4G0300M3SP04GUP	3S	3,00	.118	0,4	.016	20	.79	2,9	.115	●
A4G0400M4SP04GUP	4S	4,00	.157	0,4	.016	20	.79	3,4	.132	●
A4G0400M4SP08GUP	4S	4,00	.157	0,8	.031	20	.79	3,4	.132	●
A4G0500M5SP08GUP	5S	5,00	.197	0,8	.032	25	.98	4,1	.162	●

KCU10B



A4G-U-GMP

- Primary
- Secondary

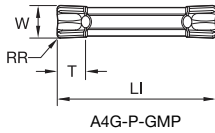
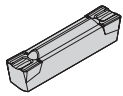
P	●
M	●
K	●
N	○
S	●
H	●

A4™ Grooving & Turning Inserts

GMP Precision Molded

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0205M02U02GMP	2	2,05	.081	0,2	.008	20	.79	2,0	.079	●
A4G0305M03U02GMP	3	3,05	.120	0,2	.008	20	.79	3,5	.138	●
A4G0305M03U04GMP	3	3,05	.120	0,4	.016	20	.79	3,5	.138	●
A4G0405M04U04GMP	4	4,05	.159	0,4	.015	20	.79	3,4	.134	●
A4G0405M04U08GMP	4	4,05	.159	0,8	.031	20	.79	3,4	.134	●
A4G0505M05U04GMP	5	5,05	.199	0,4	.015	25	.99	4,2	.165	●
A4G0505M05U08GMP	5	5,05	.199	0,8	.032	25	.99	4,2	.165	●
A4G0605M06U08GMP	6	6,05	.238	0,4	.016	30	1.19	4,9	.193	●
A4G0605M06U04GMP	6	6,05	.238	0,8	.031	30	1.19	4,9	.193	●
A4G1005M10U08GMP	10	10,05	.396	0,8	.031	30	1.19	6,1	.241	●

KCU10B



A4G-P-GMP

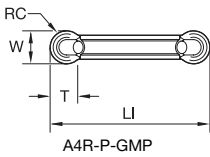
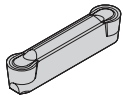
- Primary
- Secondary

P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GMP Precision Ground

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0200M02P02GMP	2	2,00	.079	0,2	.008	20	.78	2,0	.079	●
A4G0250M2BP02GMP	2B	2,50	.098	0,2	.008	20	.78	2,0	.079	●
A4G0300M03P02GMP	3	3,00	.118	0,2	.008	20	.78	3,5	.138	●
A4G0300M03P04GMP	3	3,00	.118	0,4	.016	20	.78	3,5	.138	●
A4G0400M04P02GMP	4	3,00	.158	0,2	.008	20	.78	-	-	●
A4G0400M04P04GMP	4	4,00	.158	0,4	.016	20	.78	3,5	.138	●
A4G0400M04P08GMP	4	4,00	.158	0,8	.032	20	.78	3,5	.138	●
A4G0500M05P04GMP	5	5,00	.197	0,4	.016	25	.98	-	-	●
A4G0500M05P08GMP	5	5,00	.197	0,8	.032	25	.98	-	-	●
A4G0600M06P04GMP	6	6,00	.236	0,4	.016	30	1.18	4,9	.192	●
A4G0600M06P08GMP	6	6,00	.236	0,8	.031	30	1.18	4,9	.192	●
A4G0800M08P08GMP	8	8,00	.315	0,8	.031	30	1.18	6,4	.251	●
A4G0800M08P12GMP	8	8,00	.315	1,2	.047	30	1.18	6,4	.251	●



A4R-P-GMP

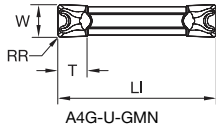
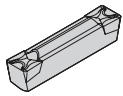
- Primary
- Secondary

P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GMP Full Radius Precision Ground

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4R0200M02P00GMP	2	2,00	.079	1,0	.039	20	.78	1,7	.065	●
A4R0300M03P00GMP	3	3,00	.118	1,5	.059	20	.78	2,5	.098	●
A4R0400M04P00GMP	4	4,00	.157	2,0	.079	20	.78	-	-	●
A4R0500M05P00GMP	5	5,00	.197	2,5	.098	25	.98	4,1	.160	●
A4R0600M06P00GMP	6	6,00	.236	3,0	.118	30	1.18	4,8	.189	●
A4R0800M08P00GMP	8	8,00	.315	4,0	.158	30	1.18	6,4	.252	●



A4G-U-GMN

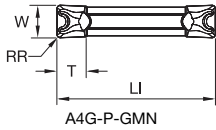
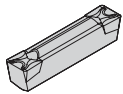
- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

A4™ Grooving & Turning Inserts

GMN Precision Molded

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0205M02U02GMN	2	2,05	.081	0,2	.008	20	.79	2,0	.079	●
A4G0305M03U02GMN	3	3,05	.120	0,2	.008	20	.79	3,5	.138	●
A4G0305M03U04GMN	3	3,05	.120	0,4	.016	20	.79	3,5	.138	●
A4G0405M04U04GMN	4	4,05	.159	0,4	.016	20	.79	3,4	.134	●
A4G0405M04U08GMN	4	4,05	.159	0,8	.031	20	.79	3,4	.134	●
A4G0505M05U04GMN	5	5,05	.199	0,4	.016	25	.98	4,2	.165	●
A4G0505M05U08GMN	5	5,05	.199	0,8	.031	25	.98	4,2	.165	●
A4G0605M06U04GMN	6	6,05	.238	0,4	.016	30	1.18	4,9	.193	●
A4G0605M06U08GMN	6	6,05	.238	0,8	.031	30	1.18	4,9	.193	●
A4G0605M06U12GMN	6	6,05	.238	1,2	.047	30	1.18	4,9	.193	●
A4G0805M08U08GMN	8	8,05	.317	0,8	.031	30	1.18	6,4	.252	●
A4G0805M08U12GMN	8	8,05	.317	1,2	.047	30	1.18	6,4	.252	●



A4G-P-GMN

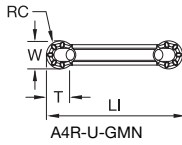
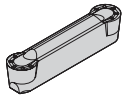
- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

A4™ Grooving & Turning Inserts

GMN Precision Ground

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G094I2BP05GMN	2B	2,39	.094	0,2	.008	20	.79	1,9	.075	●
A4G125I03P05GMN	3	3,18	.125	0,2	.008	20	.79	3,4	.134	●
A4G125I03P1GMN	3	3,18	.125	0,4	.016	20	.79	3,4	.134	●
A4G187I04P1GMN	4	4,76	.187	0,4	.016	20	.79	3,5	.138	●
A4G187I04P2GMN	4	4,76	.187	0,8	.031	20	.79	3,5	.138	●
A4G250I06P1GMN	6	6,35	.250	0,4	.016	30	1.18	4,7	.187	●
A4G250I06P2GMN	6	6,35	.250	0,8	.031	30	1.18	4,7	.187	●
A4G312I08P1GMN	8	7,94	.312	0,4	.016	30	1.18	6,2	.246	●
A4G375I10P1GMN	10	9,53	.375	0,4	.016	30	1.18	7,9	.312	●
A4G375I10P2GMN	10	9,53	.375	0,8	.031	30	1.18	7,9	.313	●



A4R-U-GMN

- Primary
- Secondary

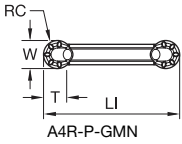
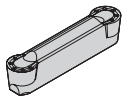
P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GMN Full Radius Precision Molded

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4R0205M02U00GMN	2	2,05	.081	1,1	.042	20	.79	1,8	.069	●
A4R0305M03U00GMN	3	3,05	.120	1,5	.060	20	.79	2,6	.101	●
A4R0405M04U00GMN	4	4,05	.159	2,0	.080	20	.79	3,5	.136	●
A4R0505M05U00GMN	5	5,05	.199	2,5	.099	25	.99	4,2	.163	●
A4R0605M06U00GMN	6	6,05	.238	3,0	.119	30	1.19	4,9	.194	●
A4R0805M08U00GMN	8	8,05	.317	4,0	.159	30	1.19	6,5	.256	●
A4R1005M10U00GMN	10	10,05	.396	5,0	.198	30	1.19	8,2	.322	●

KCU10B



A4R-P-GMN

- Primary
- Secondary

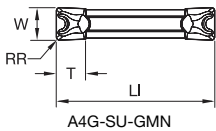
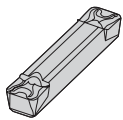
P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GMN Full Radius Precision Ground

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4R125I03P00GMN	3	3,18	.125	1,6	.063	20	.79	2,7	.108	●
A4R187I04P00GMN	4	4,76	.187	2,4	.094	20	.79	3,8	.149	●
A4R250I06P00GMN	6	6,35	.250	3,2	.125	30	1.18	5,3	.208	●
A4R312I08P00GMN	8	7,94	.313	4,0	.157	30	1.18	6,4	.254	●

KCU10B



A4G-SU-GMN

- Primary
- Secondary

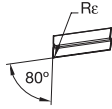
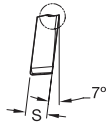
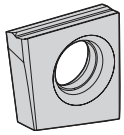
P	●
M	●
K	●
N	○
S	●
H	

A4™ Grooving & Turning Inserts

GMN Precision Molded • Small Diameter Face Grooving

Catalog Number	Seat Size	W		RR		LI		T		
		mm	in	mm	in	mm	in	mm	in	
A4G0205M2SU02GMN	2S	2,05	.081	0,2	.008	20	.79	2,0	.079	●
A4G0305M3SU04GMN	3S	3,05	.120	0,4	.016	20	.79	3,5	.138	●
A4G0405M4SU04GMN	4S	4,05	.159	0,4	.016	20	.79	3,6	.143	●
A4G0505M5SU04GMN	5S	5,05	.199	0,4	.016	25	.98	4,2	.165	●

KCU10B



- Primary
- Secondary

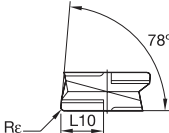
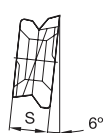
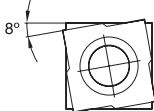
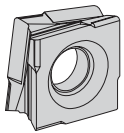
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Fix-Perfect™ Inserts

C2FIX-MN

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
C2FIX110404RMN	10,70	.423	4,00	.157	0,40	.016	●
left hand							
C2FIX110405LMN	10,70	.423	4,00	.157	0,50	.020	●
C2FIX150505LMN	14,70	.578	5,00	.197	0,50	.020	●
C2FIX150508LMN	14,60	.574	5,00	.197	0,80	.032	●
C2FIX180610LMN	17,50	.689	6,00	.236	1,00	.039	●

KCU10B



- Primary
- Secondary

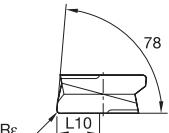
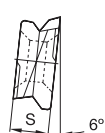
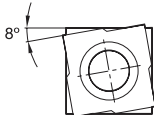
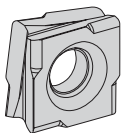
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Fix-Perfect™ Inserts

C8FIX-MP

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
C8FIX120503RMP	7,30	.287	5,50	.217	0,30	.012	●
C8FIX150603RMP	9,30	.366	6,60	.260	0,30	.012	●
left hand							
C8FIX120503LMP	7,30	.287	5,50	.217	0,30	.012	●

KCU10B



- Primary
- Secondary

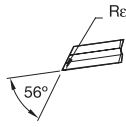
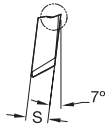
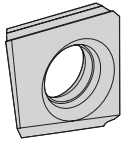
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Fix-Perfect™ Inserts

C8FIX-RN

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
C8FIX150605RRN	9,10	.358	6,60	.260	0,50	.020	●

KCU10B



- Primary
- Secondary

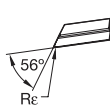
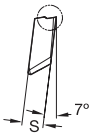
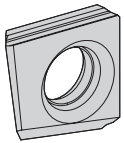
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Fix-Perfect™ Inserts

D2FIX-HP

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
D2FIX110403RHP	10,10	.396	4,00	.157	0,30	.012	●
D2FIX150508RHP	13,60	.535	5,00	.197	0,80	.032	●
D2FIX150504RHP	14,00	.551	5,00	.197	0,40	.016	●
D2FIX150503RHP	14,10	.554	5,00	.197	0,30	.012	●
left hand							
D2FIX110403LHP	10,10	.396	4,00	.157	0,30	.012	●
D2FIX150508LHP	13,60	.535	5,00	.197	0,80	.032	●
D2FIX150503LHP	14,10	.554	5,00	.197	0,30	.012	●

KCU10B



- Primary
- Secondary

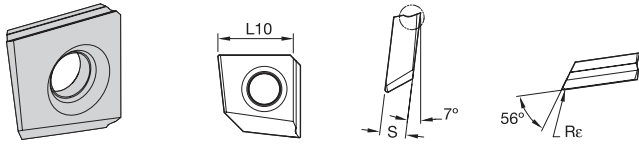
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	●

Fix-Perfect™ Inserts

D2FIX-MS

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
D2FIX150505RMS	13,90	.549	5,00	.197	0,50	.020	●
D2FIX150503RMS	14,10	.554	5,00	.197	0,30	.012	●
left hand							
D2FIX150505LMS	13,90	.549	5,00	.197	0,50	.020	●
D2FIX150503LMS	14,10	.554	5,00	.197	0,30	.012	●

KCU10B



- Primary
- Secondary

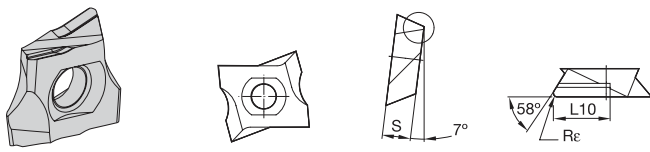
P	●
M	●
K	●
N	○
S	●
H	●

Fix-Perfect™ Inserts

D2FIX-FN

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
D2FIX150505RFN	13,90	.549	5,00	.197	0,50	.020	●

KCU10B



- Primary
- Secondary

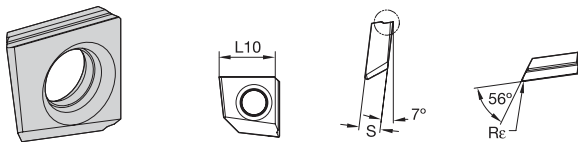
P	●
M	●
K	●
N	○
S	●
H	●

Fix-Perfect™ Inserts

D4FIX-MN

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
D4FIX140608RMN	6,70	.264	5,90	.233	0,80	.031	●

KCU10B



- Primary
- Secondary

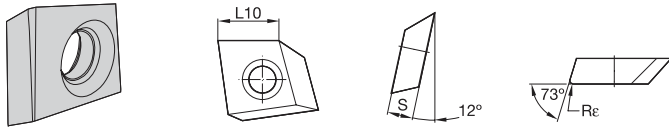
P	●
M	●
K	●
N	○
S	●
H	●

Fix-Perfect™ Inserts

D2FIX-MN

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
D4FIX140608RMN	6,70	.264	5,90	.233	0,80	.031	●

KCU10B



- Primary
- Secondary

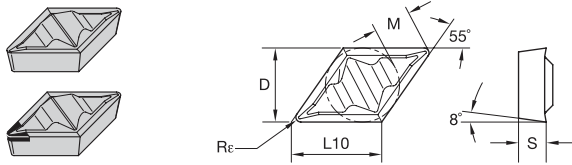
P	●
M	●
K	●
N	○
S	●
H	●

Fix-Perfect™ Inserts

E2FIX-HP

Catalog Number	L10		S		Rε		
	mm	in	mm	in	mm	in	
right hand							
E2FIX100505RHP	10,50	.413	5,00	.197	0,50	.020	●
left hand							
E2FIX100505LHP	10,50	.413	5,00	.197	0,50	.020	●

KCU10B



- Primary
- Secondary

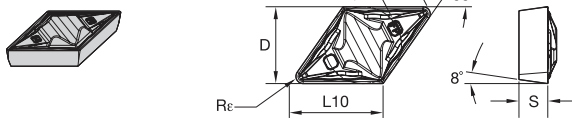
P	●
M	●
K	●
N	○
S	●
H	●

Top Notch™ Profiling Inserts

DCGR • DPGR

ISO Catalog Number	ANSI Catalog Number	D		L10		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	
DCGR150404	DPGR431	12,70	1/2	15,50	.610	4,76	3/16	6,94	.273	0,4	1/64	●
DCGR150408	DPGR432	12,70	1/2	15,50	.610	4,76	3/16	6,48	.255	0,8	1/32	●
DCGR150412	DPGR433	12,70	1/2	15,50	.610	4,76	3/16	6,01	.237	1,2	3/64	●

KCU10B



- Primary
- Secondary

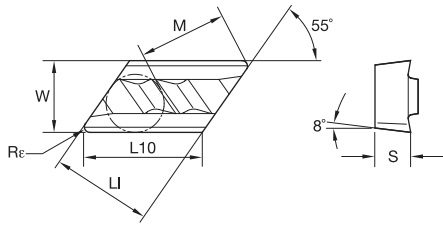
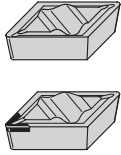
P	●
M	●
K	●
N	○
S	●
H	●

Top Notch™ Profiling Inserts

DCGR • DPGR • FP

ISO Catalog Number	ANSI Catalog Number	D		L10		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	
DCGR150404FP	DPGR431FP	12,70	1/2	15,50	.610	4,76	3/16	6,94	.273	0,4	1/64	●

KCU10B



- Primary
- Secondary

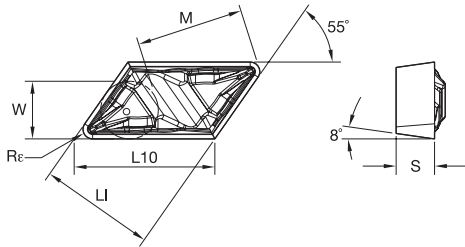
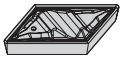
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Top Notch™ Profiling Inserts

KCGR • NPGR

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
right hand														
KCGR110304R08	NPGR51R	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,10	.358	0,4	1/64	●
KCGR110308R08	NPGR52R	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	8,66	.341	0,8	1/32	●
left hand														
KCGR110304L08	NPGR51L	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,10	.358	0,4	1/64	●
KCGR110308L08	NPGR52L	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	8,66	.341	0,8	1/32	●

KCU10B



- Primary
- Secondary

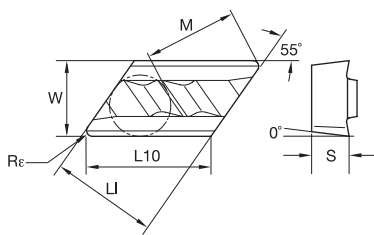
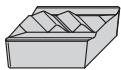
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Top Notch™ Profiling Inserts

KCGR • NPGR • FP

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
right hand														
KCGR110308R08FP	NPGR52RFP	9,52	.375	11,60	.457	6,35	.250	3,18	1/8	9,13	.360	0,8	1/32	●

KCU10B



- Primary
- Secondary

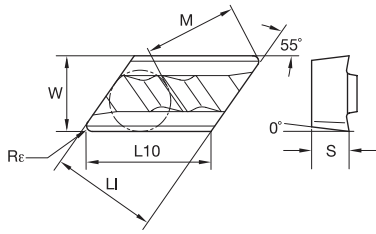
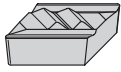
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Top Notch™ Profiling Inserts

KNGX • NPR/L

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
right hand														
KNGX150401R15	NPR1305	12,68	.500	15,44	.608	9,53	.375	4,76	3/16	13,76	.542	0,1	.005	●
KNGX150402R15	NPR1308	12,68	.500	15,44	.608	9,53	.375	4,76	3/16	13,67	.538	0,2	.008	●
KNGX150404R20	NPR131F	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	13,46	.530	0,4	1/64	●
KNGX150408R20	NPR132F	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	12,99	.512	0,8	1/32	●
KNGX220408R32	NPR332	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,47	.767	0,8	1/32	●

KCU10B



- Primary
- Secondary

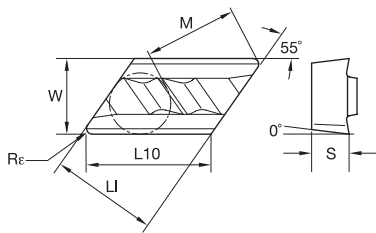
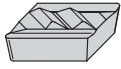
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Continued

Top Notch™ Profiling Inserts

KNGX • NPR/L

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
left hand														
KNGX150404L20	NPL131F	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	13,46	.530	0,4	1/64	●
KNGX150408L20	NPL132F	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	12,99	.512	0,8	1/32	●
KNGX220408L20	NPL332F	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,47	.767	0,8	1/32	●



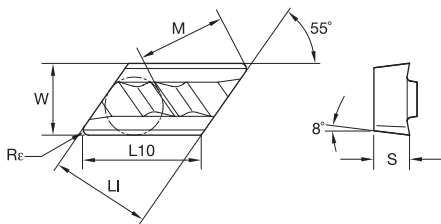
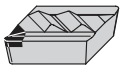
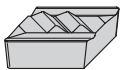
- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Top Notch™ Profiling Inserts

KNUX • NPR/L

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
right hand														
KNUX150405R20	NPR13M05F	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020	●
KNUX150410R25	NPR13M10N	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	12,74	.502	1,0	.039	●
left hand														
KNUX150405L25	NPL13M05N	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020	●
KNUX150410L25	NPL13M10N	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	12,74	.502	1,0	.039	●



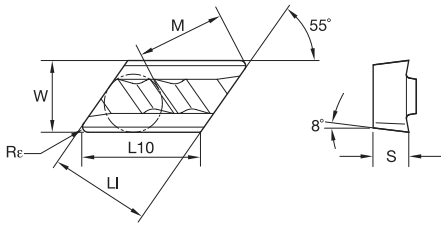
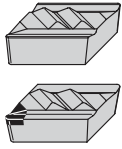
- Primary
- Secondary

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

Top Notch™ Profiling Inserts

KCGX • NPR/L

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
right hand														
KCGX110301R15	NPR505	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,43	.371	0,1	.005	●
KCGX110302R15	NPR508	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,34	.368	0,2	.008	●
KCGX110304R15	NPR51	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,11	.359	0,4	1/64	●
KCGX110308R15	NPR52	9,57	.377	-	-	6,33	.249	3,18	1/8	8,69	.342	0,8	1/32	●



- Primary
- Secondary

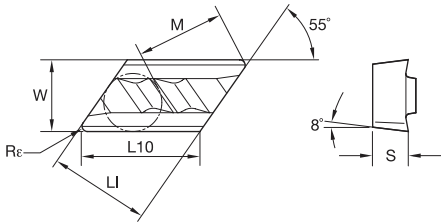
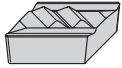
P	●
M	●
K	●
N	○
S	●
H	

Continued

Top Notch™ Profiling Inserts

KCGX • NPR/L

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
left hand														
KCGX110301L15	NPL505	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,43	.371	0,1	.005	●
KCGX110302L15	NPL508	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,34	.368	0,2	.008	●
KCGX110304L15	NPL51	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,11	.359	0,4	1/64	●
KCGX110308L15	NPL52	9,57	.377	-	-	6,33	.249	3,18	1/8	8,69	.342	0,8	1/32	●



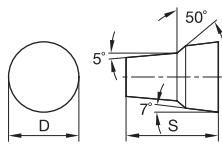
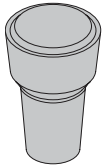
- Primary
- Secondary

P	●
M	●
K	●
N	○
S	●
H	

Top Notch™ Profiling Inserts

KCUX • NPR/L

ISO Catalog Number	ANSI Catalog Number	LI		L10		W		S		M		Rε		
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
right hand														
KCUX110302R15	NPR5M02	9,50	.374	11,60	.457	6,33	.249	3,18	1/8	9,40	.370	0,2	.008	●
KCUX110305R15	NPR5M05	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,06	.357	0,5	.020	●
left hand														
KCUX110302L15	NPL5M02	9,46	.373	11,60	.457	6,33	.249	3,18	1/8	9,40	.370	0,2	.008	●
KCUX110305L15	NPL5M05	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,06	.357	0,5	.020	●



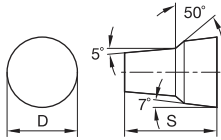
- Primary
- Secondary

P	●
M	●
K	●
N	○
S	●
H	

K-Lock™ Inserts

RCGK-FS

ISO Catalog Number	ANSI Catalog Number	D		S		
		mm	in	mm	in	
RCGK040300FS	RCGK152FS	4,76	3/16	6,38	.251	●
RCGK060400FS	RCGK23FS	6,35	1/4	9,09	.358	●
RCGK090700FS	RCGK35FS	9,53	3/8	13,23	.521	●
RCGK120800FS	RCGK46FS	12,70	1/2	16,61	.654	●



- Primary
- Secondary

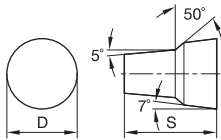
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

K-Lock™ Inserts

RCGK-HP

ISO Catalog Number	ANSI Catalog Number	D		S		
		mm	in	mm	in	
RCGK040300HP	RCGK152HP	4,76	3/16	6,38	.251	●
RCGK060400HP	RCGK23HP	6,35	1/4	9,09	.358	●
RCGK090700HP	RCGK35HP	9,53	3/8	13,23	.521	●
RCGK120800HP	RCGK46HP	12,70	1/2	16,61	.654	●

KCU10B



- Primary
- Secondary

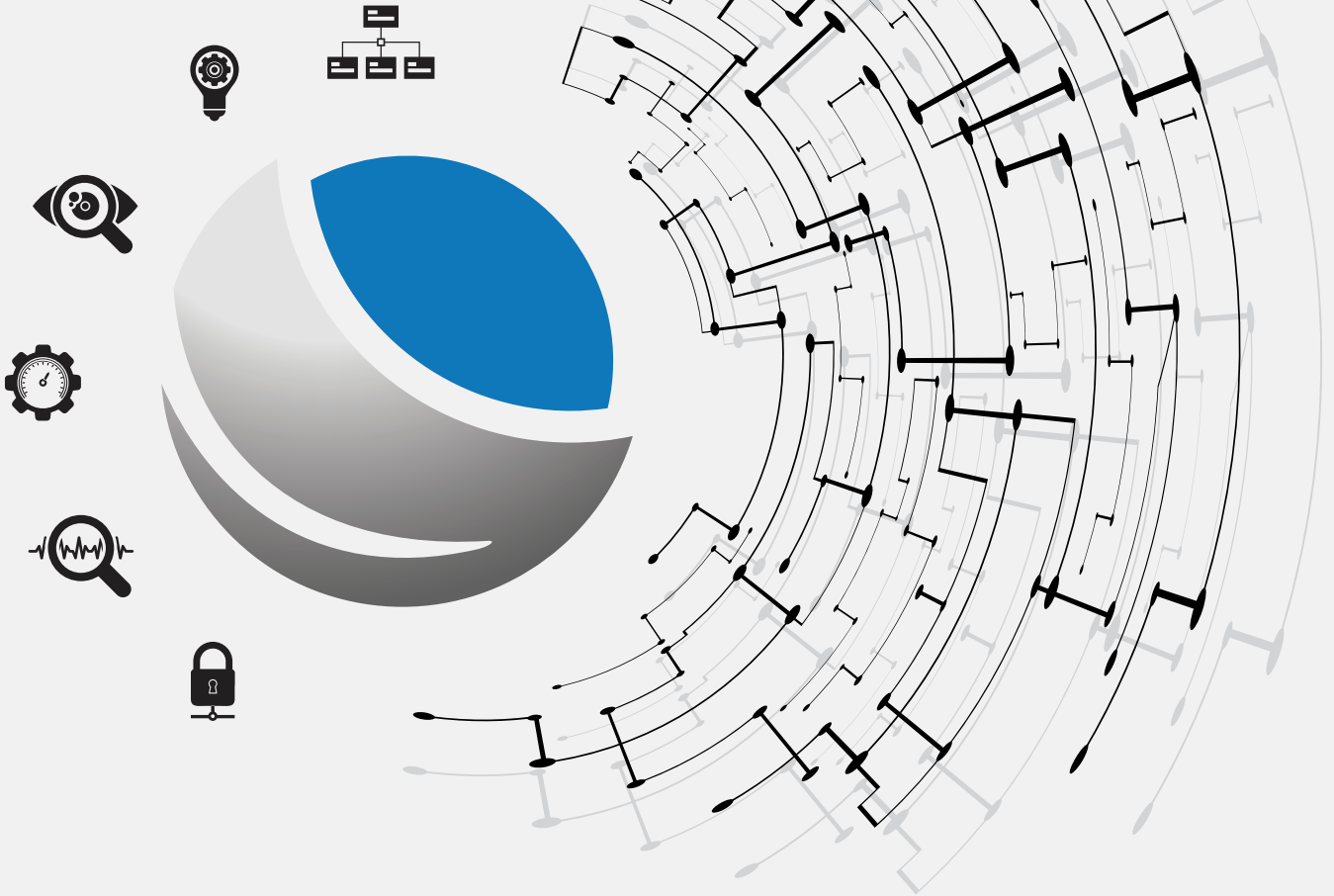
P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	●
H	Grey	

K-Lock™ Inserts

RCMK

ISO Catalog Number	ANSI Catalog Number	D		S		
		mm	in	mm	in	
RCMK040300	RCMK152	4,76	3/16	6,38	.251	●
RCMK060400	RCMK23	6,35	1/4	9,09	.358	●
RCMK090700	RCMK35	9,53	3/8	13,23	.521	●
RCMK120800	RCMK46	12,70	1/2	16,61	.654	●

KCU10B



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Featuring a new **KENGold™** PVD multilayer coating, KCU10B universal turning grade cuts precisely and consistently from one material to the next. Upgrade your multi-material projects and beat deadlines when working on steels, stainless steels, cast iron, high-temp alloys and non-ferrous materials.



Our Story Is One of Continuous Innovation

It starts in 1936 with our founder, metallurgist Philip M. McKenna, who after years of research created a tungsten-titanium carbide alloy specifically for cutting tools. That single development not only led to a new class of machining tools that cut faster, lasted longer and drove productivity in everything from the automobile to the airplane, but also led to the opening of McKenna Metals Company in Latrobe, Pennsylvania, United States. Today, that company is Kennametal Inc.—a recognized leader in metalworking serving customers across continents and industries including transportation, construction, aerospace, machining and cutting, energy and general engineering. We have a reputation for building innovative solutions for our customers' most challenging applications. The name Kennametal is synonymous for high-quality, high-performance tools that can withstand the most strenuous conditions and bring ease to a wide range of machining operations. We help our customers' operations run longer, faster and with greater precision. We don't cut corners. We cut metal. Your toughest materials don't stand a chance.



FV

Geometry



FV Geometry is ideal for predictable chip control and better performance in steel machining on medium and low depth-of-cut applications.

Applications

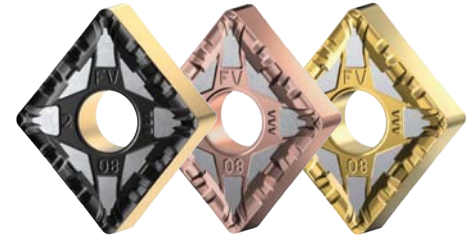
PRIMARY Finishing SECONDARY Medium Finishing

Materials

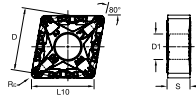
P Steels

The versatile geometry eliminates the need for disruptive tool changes and features:

- Unique chip breaker design
- Sharper edge
- Built-in coolant channels



Kenloc™ CNMG Insert • Negative • FV

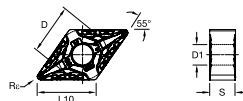


- Primary
- Secondary

P	●	●	●	●
M	●	○	○	○
K	●	○	○	○
N	○	○	○	○
S	○	○	○	○
H	○	○	○	○

ISO		ANSI		D		L10		Rε		KTP10	KCP05B	KCP10B	KCP25C
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	mm	in				
CNMG090304FV	CNMG321FV	9,53	3/8	0,40	.381	0,4	1/64						
CNMG090308FV	CNMG322FV	9,53	3/8	9,67	.381	0,8	1/32						
CNMG120402FV	CNMG4305FV	12,70	1/2	12,90	.508	0,2	.008	●					
CNMG120404FV	CNMG431FV	12,70	1/2	12,90	.508	0,4	1/64	●	●	●	●	●	●
CNMG120408FV	CNMG432FV	12,70	1/2	12,90	.508	0,8	1/32	●	●	●	●	●	●
CNMG120412FV	CNMG433FV	12,70	1/2	12,90	.508	1,2	3/64	●					

Kenloc DNMG Insert • Negative • FV

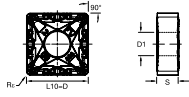


ISO		ANSI		D		L10		Rε		KTP10	KCP05B	KCP10B	KCP25C
Catalog Number	Catalog Number	mm	in	mm	in	mm	in	mm	in				
DNMG110404FV	DNMG331FV	9,53	3/8	11,63	.458	0,4	1/64	●	●	●	●	●	●
DNMG110408FV	DNMG332FV	9,53	3/8	11,63	.458	0,8	1/32	●	●	●	●	●	●
DNMG110412FV	DNMG333FV	9,53	3/8	11,63	.458	1,2	3/64						
DNMG150404FV	DNMG431FV	12,70	1/2	15,50	.610	0,4	1/64	●	●	●	●	●	●
DNMG150408FV	DNMG432FV	12,70	1/2	15,50	.610	0,8	1/32	●	●	●	●	●	●
DNMG150412FV	DNMG433FV	12,70	1/2	15,50	.610	1,2	3/64	●	●	●	●	●	●
DNMG150604FV	DNMG441FV	12,70	1/2	15,50	.610	0,4	1/64	●	●	●	●	●	●
DNMG150608FV	DNMG442FV	12,70	1/2	15,50	.610	0,8	1/32	●	●	●	●	●	●
DNMG150612FV	DNMG443FV	12,70	1/2	15,50	.610	1,2	3/64	●	●	●	●	●	●

- Primary
- Secondary

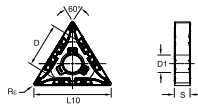
P	●	●	●	●
M	●	●	●	●
K	●	○	○	○
N	●	●	●	●
S	●	●	●	●
H	●	●	●	●

Kenloc™ SNMG Insert • Negative • FV



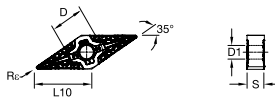
ISO		ANSI		D		L10		Rε		KTP10	KCP05B	KCP10B	KCP25C
Catalog Number		Catalog Number		mm	in	mm	in	mm	in				
SNMG090308FV		SNMG322FV		9,53	3/8	9,53	0.375	0,8	1/32	●		●	
SNMG120404FV		SNMG431FV		12,70	1/2	12,70	0.500	0,4	1/64		●	●	
SNMG120408FV		SNMG432FV		12,70	1/2	12,70	0.500	0,8	1/32	●	●	●	●
SNMG120412FV		SNMG433FV		12,70	1/2	12,70	0.500	1,2	3/64			●	●

Kenloc TNMG Insert • Negative • FV



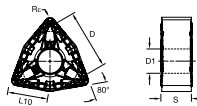
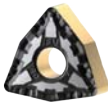
ISO		ANSI		D		L10		Rε		KTP10	KCP05B	KCP10B	KCP25C
Catalog Number		Catalog Number		mm	in	mm	in	mm	in				
TNMG160404FV		TNMG331FV		9,53	3/8	16,50	.650	0,4	1/64	●	●	●	●
TNMG160408FV		TNMG332FV		9,53	3/8	16,50	.650	0,8	1/32	●	●	●	●
TNMG160412FV		TNMG333FV		9,53	3/8	16,50	.650	1,2	3/64	●	●	●	●
TNMG220404FV		TNMG431FV		12,70	1/2	22,00	.866	0,4	1/64				●
TNMG220408FV		TNMG432FV		12,70	1/2	22,00	.866	0,8	1/32		●	●	●

Kenloc VNMG Insert • Negative • FV



ISO		ANSI		D		L10		Rε		KTP10	KCP05B	KCP10B	KCP25C
Catalog Number		Catalog Number		mm	in	mm	in	mm	in				
VNMG160404FV		VNMG331FV		9,53	3/8	16,61	.654	0,4	1/64	●	●	●	●
VNMG160408FV		VNMG332FV		9,53	3/8	16,61	.654	0,8	1/32	●	●	●	●

Kenloc WNMG Insert • Negative • FV



ISO		ANSI		D		L10		Rε		KTP10	KCP05B	KCP10B	KCP25C
Catalog Number		Catalog Number		mm	in	mm	in	mm	in				
WNMG060404FV		WNMG331FV		9,53	3/8	6,52	.257	0,4	1/64	●		●	
WNMG060408FV		WNMG332FV		9,53	3/8	6,52	.257	0,8	1/32	●		●	●
WNMG080404FV		WNMG431FV		12,70	1/2	8,69	.342	0,4	1/64	●	●	●	●
WNMG080408FV		WNMG432FV		12,70	1/2	8,69	.342	0,8	1/32	●	●	●	●

Cut into Downtime



FV Geometry

Versatile. Reliable. Durable.



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LET'S TAKE YOUR **MANUFACTURING**
TO THE **NEXT LEVEL**

[kennametal.com](https://www.kennametal.com)



HARVI™ IV

8-Flute End Mills



Durable, high performance
solid end milling solutions

HARVI IV

8-Flute End Mills

The latest addition to Kennametal's HARVI family of high-performance and versatile end mills

With a unique design that offers higher metal removal rates and feed rates than 7-flute end mills and more versatility than traditional 9-flute end mills, HARVI IV 8-Flute End Mills keep you cutting in difficult-to-machine materials. Rough and finish with one reliable tool in high-temp alloys, stainless steels, steels and hardened materials while achieving powerful chip evacuation from internal coolant channels.

Diameter range 3/8-1", 10-25mm

Length range 1.2-4.3xD

Internal through coolant

Chip splitters featured on versions greater than 2xD length of cut

The incredibly versatile HARVI IV 8-Flute End Mills are complemented by our new stainless steels, titanium and other high-temp alloys solid end milling grade KCSM15A. This new grade features an innovative coating technology that's delivering extended tool life for users and the best wear resistance in Kennametal's history of solid carbide end milling.



Industries



Aerospace



Medical

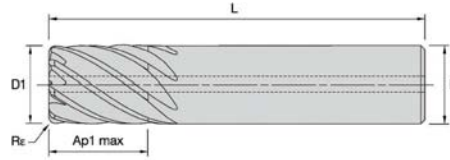


General Engineering



Wind & Solar

METRIC



- Primary
- Secondary

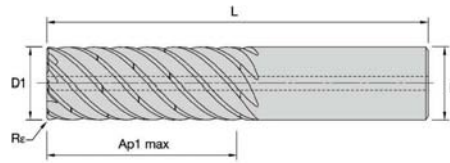
P	 	○
M	 	●
K	 	
N	 	
S	 	●
H	 	○

HARVI™ IV

Radiused • 8 Flutes • Internal Coolant • Plain Shank • **METRIC**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Metric	7104182	HA4R8RA1000R022HAR050IM	10,00	10,00	22,00	72,00	0.5	●
	7104183	HA4R8RA1000R022HAR100IM	10,00	10,00	22,00	72,00	1.0	●
	7104184	HA4R8RA1000R022HAR200IM	10,00	10,00	22,00	72,00	2.0	●
	7104185	HA4R8RA1000R022HAR250IM	10,00	10,00	22,00	72,00	2.5	●
	7104186	HA4R8RA1000R022HAR300IM	10,00	10,00	22,00	72,00	3.0	●
	7104188	HA4R8RA1200R026HAR050IM	12,00	12,00	26,00	83,00	0.5	●
	7104189	HA4R8RA1200R026HAR100IM	12,00	12,00	26,00	83,00	1.0	●
	7104190	HA4R8RA1200R026HAR200IM	12,00	12,00	26,00	83,00	2.0	●
	7104191	HA4R8RA1200R026HAR250IM	12,00	12,00	26,00	83,00	2.5	●
	7104192	HA4R8RA1200R026HAR300IM	12,00	12,00	26,00	83,00	3.0	●
	7104194	HA4R8RA1600R032HAR050IM	16,00	16,00	32,00	92,00	0.5	●
	7104195	HA4R8RA1600R032HAR100IM	16,00	16,00	32,00	92,00	1.0	●
	7104196	HA4R8RA1600R032HAR200IM	16,00	16,00	32,00	92,00	2.0	●
	7104197	HA4R8RA1600R032HAR250IM	16,00	16,00	32,00	92,00	2.5	●
	7104198	HA4R8RA1600R032HAR300IM	16,00	16,00	32,00	92,00	3.0	●
	7104199	HA4R8RA1600R032HAR400IM	16,00	16,00	32,00	92,00	4.0	●
	7104201	HA4R8RA2000R038HAR050IM	20,00	20,00	38,00	104,00	0.5	●
	7104202	HA4R8RA2000R038HAR100IM	20,00	20,00	38,00	104,00	1.0	●
	7104203	HA4R8RA2000R038HAR200IM	20,00	20,00	38,00	104,00	2.0	●
	7104204	HA4R8RA2000R038HAR250IM	20,00	20,00	38,00	104,00	2.5	●
	7104205	HA4R8RA2000R038HAR300IM	20,00	20,00	38,00	104,00	3.0	●
	7104206	HA4R8RA2000R038HAR400IM	20,00	20,00	38,00	104,00	4.0	●
	7104207	HA4R8RA2000R038HAR600IM	20,00	20,00	38,00	104,00	6.0	●
	7104209	HA4R8RA2500R045HAR050IM	25,00	25,00	45,00	121,00	0.5	●
7104210	HA4R8RA2500R045HAR100IM	25,00	25,00	45,00	121,00	1.0	●	
7104211	HA4R8RA2500R045HAR200IM	25,00	25,00	45,00	121,00	2.0	●	
7104212	HA4R8RA2500R045HAR250IM	25,00	25,00	45,00	121,00	2.5	●	
7104213	HA4R8RA2500R045HAR300IM	25,00	25,00	45,00	121,00	3.0	●	
7104214	HA4R8RA2500R045HAR400IM	25,00	25,00	45,00	121,00	4.0	●	



- Primary
- Secondary

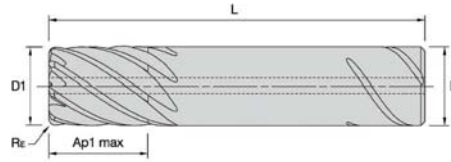
P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Radiused • 8 Flutes • Chip Splitters • Internal Coolant • Plain Shank • **METRIC**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Metric	7104255	HA4R8RA1000X040HAR050DM	10,00	10,00	40,00	90,00	0.5	●
	7104256	HA4R8RA1000X040HAR100DM	10,00	10,00	40,00	90,00	1.0	●
	7104257	HA4R8RA1000X040HAR200DM	10,00	10,00	40,00	90,00	2.0	●
	7104258	HA4R8RA1000X040HAR250DM	10,00	10,00	40,00	90,00	2.5	●
	7104259	HA4R8RA1000X040HAR300DM	10,00	10,00	40,00	90,00	3.0	●
	7104271	HA4R8RA1200X048HAR050DM	12,00	12,00	48,00	105,00	0.5	●
	7104272	HA4R8RA1200X048HAR100DM	12,00	12,00	48,00	105,00	1.0	●
	7104273	HA4R8RA1200X048HAR200DM	12,00	12,00	48,00	105,00	2.0	●
	7104274	HA4R8RA1200X048HAR250DM	12,00	12,00	48,00	105,00	2.5	●
	7104275	HA4R8RA1200X048HAR300DM	12,00	12,00	48,00	105,00	3.0	●
	7104277	HA4R8RA1600X064HAR050DM	16,00	16,00	64,00	125,00	0.5	●
	7104278	HA4R8RA1600X064HAR100DM	16,00	16,00	64,00	125,00	1.0	●
	7104279	HA4R8RA1600X064HAR200DM	16,00	16,00	64,00	125,00	2.0	●
	7104280	HA4R8RA1600X064HAR250DM	16,00	16,00	64,00	125,00	2.5	●
	7104281	HA4R8RA1600X064HAR300DM	16,00	16,00	64,00	125,00	3.0	●
	7104282	HA4R8RA1600X064HAR400DM	16,00	16,00	64,00	125,00	4.0	●
	7104284	HA4R8RA2000X080HAR050DM	20,00	20,00	80,00	145,00	0.5	●
	7104285	HA4R8RA2000X080HAR100DM	20,00	20,00	80,00	145,00	1.0	●
	7104286	HA4R8RA2000X080HAR200DM	20,00	20,00	80,00	145,00	2.0	●
	7104287	HA4R8RA2000X080HAR250DM	20,00	20,00	80,00	145,00	2.5	●
	7104288	HA4R8RA2000X080HAR300DM	20,00	20,00	80,00	145,00	3.0	●
	7104289	HA4R8RA2000X080HAR400DM	20,00	20,00	80,00	145,00	4.0	●
	7104290	HA4R8RA2000X080HAR600DM	20,00	20,00	80,00	145,00	6.0	●
	7104292	HA4R8RA2500X100HAR050DM	25,00	25,00	100,00	175,00	0.5	●
	7104293	HA4R8RA2500X100HAR100DM	25,00	25,00	100,00	175,00	1.0	●
	7104294	HA4R8RA2500X100HAR200DM	25,00	25,00	100,00	175,00	2.0	●
	7104295	HA4R8RA2500X100HAR250DM	25,00	25,00	100,00	175,00	2.5	●
	7104296	HA4R8RA2500X100HAR300DM	25,00	25,00	100,00	175,00	3.0	●
7104297	HA4R8RA2500X100HAR400DM	25,00	25,00	100,00	175,00	4.0	●	



- Primary
- Secondary

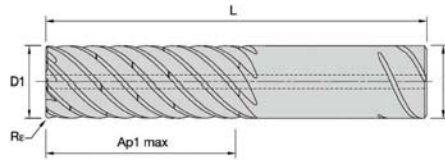
P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Radiused • 8 Flutes • Internal Coolant • Safe-Lock™ Shank • **METRIC**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Metric	7104216	HA4R8RA1200R026SLR050IM	12,00	12,00	26,00	83,00	0.5	●
	7104217	HA4R8RA1200R026SLR100IM	12,00	12,00	26,00	83,00	1.0	●
	7104218	HA4R8RA1200R026SLR200IM	12,00	12,00	26,00	83,00	2.0	●
	7104219	HA4R8RA1200R026SLR250IM	12,00	12,00	26,00	83,00	2.5	●
	7104220	HA4R8RA1200R026SLR300IM	12,00	12,00	26,00	83,00	3.0	●
	7104222	HA4R8RA1600R032SLR050IM	16,00	16,00	32,00	92,00	0.5	●
	7104223	HA4R8RA1600R032SLR100IM	16,00	16,00	32,00	92,00	1.0	●
	7104224	HA4R8RA1600R032SLR200IM	16,00	16,00	32,00	92,00	2.0	●
	7104225	HA4R8RA1600R032SLR250IM	16,00	16,00	32,00	92,00	2.5	●
	7104226	HA4R8RA1600R032SLR300IM	16,00	16,00	32,00	92,00	3.0	●
	7104227	HA4R8RA1600R032SLR400IM	16,00	16,00	32,00	92,00	4.0	●
	7104229	HA4R8RA2000R038SLR050IM	20,00	20,00	38,00	104,00	0.5	●
	7104230	HA4R8RA2000R038SLR100IM	20,00	20,00	38,00	104,00	1.0	●
	7104231	HA4R8RA2000R038SLR200IM	20,00	20,00	38,00	104,00	2.0	●
	7104232	HA4R8RA2000R038SLR250IM	20,00	20,00	38,00	104,00	2.5	●
	7104233	HA4R8RA2000R038SLR300IM	20,00	20,00	38,00	104,00	3.0	●
	7104234	HA4R8RA2000R038SLR400IM	20,00	20,00	38,00	104,00	4.0	●
	7104235	HA4R8RA2000R038SLR600IM	20,00	20,00	38,00	104,00	6.0	●
	7104237	HA4R8RA2500R045SLR050IM	25,00	25,00	45,00	121,00	0.5	●
	7104238	HA4R8RA2500R045SLR100IM	25,00	25,00	45,00	121,00	1.0	●
	7104239	HA4R8RA2500R045SLR200IM	25,00	25,00	45,00	121,00	2.0	●
	7104240	HA4R8RA2500R045SLR250IM	25,00	25,00	45,00	121,00	2.5	●
	7104251	HA4R8RA2500R045SLR300IM	25,00	25,00	45,00	121,00	3.0	●
	7104252	HA4R8RA2500R045SLR400IM	25,00	25,00	45,00	121,00	4.0	●



- Primary
- Secondary

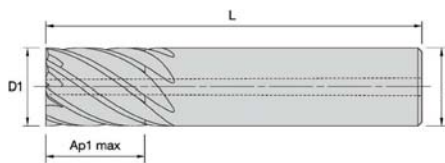
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M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Radiused • 8 Flutes • Chip Splitters • Internal Coolant • Safe-Lock™ Shank • **METRIC**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Rε	
Metric	7104299	HA4R8RA1200X048SLR050DM	12,00	12,00	48,00	105,00	0.5	●
	7104300	HA4R8RA1200X048SLR100DM	12,00	12,00	48,00	105,00	1.0	●
	7104301	HA4R8RA1200X048SLR200DM	12,00	12,00	48,00	105,00	2.0	●
	7104302	HA4R8RA1200X048SLR250DM	12,00	12,00	48,00	105,00	2.5	●
	7104303	HA4R8RA1200X048SLR300DM	12,00	12,00	48,00	105,00	3.0	●
	7104305	HA4R8RA1600X064SLR050DM	16,00	16,00	64,00	125,00	0.5	●
	7104306	HA4R8RA1600X064SLR100DM	16,00	16,00	64,00	125,00	1.0	●
	7104307	HA4R8RA1600X064SLR200DM	16,00	16,00	64,00	125,00	2.0	●
	7104308	HA4R8RA1600X064SLR250DM	16,00	16,00	64,00	125,00	2.5	●
	7104309	HA4R8RA1600X064SLR300DM	16,00	16,00	64,00	125,00	3.0	●
	7104313	HA4R8RA1600X064SLR400DM	16,00	16,00	64,00	125,00	4.0	●
	7104315	HA4R8RA2000X080SLR050DM	20,00	20,00	80,00	145,00	0.5	●
	7104316	HA4R8RA2000X080SLR100DM	20,00	20,00	80,00	145,00	1.0	●
	7104317	HA4R8RA2000X080SLR200DM	20,00	20,00	80,00	145,00	2.0	●
	7104318	HA4R8RA2000X080SLR250DM	20,00	20,00	80,00	145,00	2.5	●
	7104319	HA4R8RA2000X080SLR300DM	20,00	20,00	80,00	145,00	3.0	●
	7104320	HA4R8RA2000X080SLR400DM	20,00	20,00	80,00	145,00	4.0	●
	7104321	HA4R8RA2000X080SLR600DM	20,00	20,00	80,00	145,00	6.0	●
	7104323	HA4R8RA2500X100SLR050DM	25,00	25,00	100,00	175,00	0.5	●
	7104324	HA4R8RA2500X100SLR100DM	25,00	25,00	100,00	175,00	1.0	●
7104325	HA4R8RA2500X100SLR200DM	25,00	25,00	100,00	175,00	2.0	●	
7104326	HA4R8RA2500X100SLR250DM	25,00	25,00	100,00	175,00	2.5	●	
7104327	HA4R8RA2500X100SLR300DM	25,00	25,00	100,00	175,00	3.0	●	
7104328	HA4R8RA2500X100SLR400DM	25,00	25,00	100,00	175,00	4.0	●	



- Primary
- Secondary

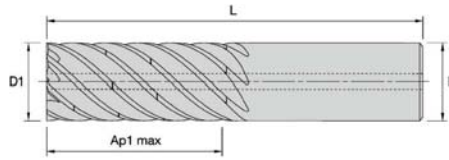
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M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Internal Coolant • Plain Shank • **METRIC**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Metric	7104187	HA4R8SE1000R022HAIM	10,00	10,00	22,00	72,00	●
	7104193	HA4R8SE1200R026HAIM	12,00	12,00	26,00	83,00	●
	7104200	HA4R8SE1600R032HAIM	16,00	16,00	32,00	92,00	●
	7104208	HA4R8SE2000R038HAIM	20,00	20,00	38,00	104,00	●
	7104215	HA4R8SE2500R045HAIM	25,00	25,00	45,00	121,00	●



- Primary
- Secondary

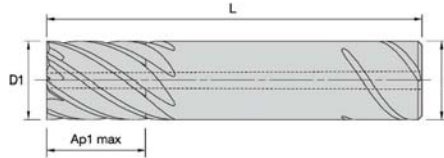
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M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Chip Splitters • Internal Coolant • Plain Shank • **METRIC**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Metric	7104260	HA4R8SE1000X040HADM	10,00	10,00	40,00	90,00	●
	7104276	HA4R8SE1200X048HADM	12,00	12,00	48,00	105,00	●
	7104283	HA4R8SE1600X064HADM	16,00	16,00	64,00	125,00	●
	7104291	HA4R8SE2000X080HADM	20,00	20,00	80,00	145,00	●
	7104298	HA4R8SE2500X100HADM	25,00	25,00	100,00	175,00	●

KCSM15A



- Primary
- Secondary

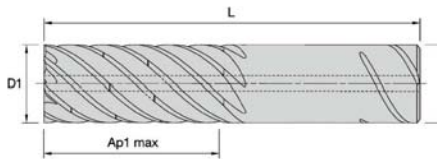
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M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Internal Coolant • Safe-Lock™ Shank • **METRIC**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Metric	7104221	HA4R8SE1200R026SLIM	12,00	12,00	26,00	83,00	●
	7104228	HA4R8SE1600R032SLIM	16,00	16,00	32,00	92,00	●
	7104236	HA4R8SE2000R038SLIM	20,00	20,00	38,00	104,00	●
	7104254	HA4R8SE2500R045SLIM	25,00	25,00	45,00	121,00	●

KCSM15A



- Primary
- Secondary

P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Chip Splitters • Internal Coolant • Safe-Lock™ Shank • **METRIC**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Metric	7104304	HA4R8SE1200X048SLDM	12,00	12,00	48,00	105,00	●
	7104314	HA4R8SE1600X064SLDM	16,00	16,00	64,00	125,00	●
	7104322	HA4R8SE2000X080SLDM	20,00	20,00	80,00	145,00	●
	7104329	HA4R8SE2500X100SLDM	25,00	25,00	100,00	175,00	●

KCSM15A

HARVI™ IV • Side Milling/Slotting • Application Data • METRIC

Material Group	Max Ae Factor (KAp)	KCSM15A Base Cutting Speed Vc m/min	Feed per Tooth (fz=mm/th)					
			D1 - Diameter (mm)					
			10	12	16	20	25	
P	3	1	130	0,049	0,044	0,067	0,080	0,095
	4	1	100	0,044	0,049	0,059	0,069	0,081
	5	0,8	65	0,038	0,043	0,053	0,063	0,076
	6	0,7	50	0,032	0,036	0,043	0,050	0,060
M	1	1	80	0,049	0,055	0,067	0,080	0,095
	2	0,8	60	0,038	0,043	0,053	0,063	0,076
	3	0,8	60	0,032	0,036	0,043	0,050	0,060
S	1	0,5	50	0,049	0,055	0,067	0,080	0,095
	2	0,5	30	0,038	0,043	0,053	0,063	0,076
	3	0,5	25	0,026	0,030	0,036	0,043	0,051
	4	0,7	45	0,041	0,051	0,061	0,069	0,081
H	1	0,8	80	0,044	0,049	0,059	0,069	0,081
	2	0,5	70	0,037	0,041	0,050	0,059	0,070

NOTE:

These guidelines may require variations to achieve optimum results.

Above parameters are based on ideal conditions. For smaller taper machining centers, please adjust parameters accordingly on >12 mm diameter. Maximum ramp angle is 2°.

Tools with chip splitters can be used as finishers.

Maximum Cutting Width and Adjustment Factors for Speed & Feed Calculation • METRIC

Maximum cutting width (Ae) for given cutting depth (Ap)

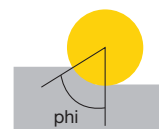
Ap	≤0,125 x D1	>0,125xD1 ≤ 0,5xD1	>0,5xD1 ≤ 1xD1	>1xD1 ≤ 2xD1	>2xD1 ≤ 3xD1	>3xD1 ≤ 4xD1	>4 x D1
Max Ae	100% x D1	50% x D1 x KAp	40% x D1 x KAp	30% x D1 x KAp	20% x D1 x KAp	15% x D1 x KAp	10% x D1 x KAp

Adjustment factors for speed (Vc) and feed (Fz)

Ae/D1	≤2%	>2% ≤ 5%	>5 ≤ 7,5%	>7,5% ≤ 10%	>10% ≤ 15%	>15% ≤ 20%	>20% ≤ 30%	>30% ≤ 40%	>40% ≤ 50%	>50% ≤ 100%
Kv	3	2,5	1,9	1,4	1,35	1,3	1,2	1,1	1	0,9
KFz	3,28	2,3	1,95	1,7	1,5	1,25	1,09	1,02	1	1

Angle of engagement (phi°) relative to cutting width (Ae)

Ae	2%	5%	7,50%	10%	15%	20%	30%	40%	50%	100%
Angle of Engagement - (phi°)	16,26	25,84	31,79	36,87	45,57	53,13	66,42	78,46	90	180



To calculate application specific cutting data, please use KAp, Kv, and Kfz from tables above for adaption of cutting speeds and feeds respectively:

$$\text{Maximum Ae} = \text{KAp} \cdot \text{D1} \cdot \text{Ap1Max/D1}$$

$$\text{Vc new} = \text{Vc} \cdot \text{Kv}$$

$$\text{Fz new} = \text{Fz} \cdot \text{KFz}$$

Sample Calculation

Material: S4

D1: 25 mm

Ap: 2xD1

$$\text{Max Ae: } 30\% \times \text{KAp} \times \text{D1} \quad 30\% \times 0,7 \times \text{D1} = 21\% \times \text{D1}$$

$$\text{M/Min: Base} \times \text{Kv} \quad 45 \times 1,2 = 54$$

$$\text{Fz: Base} \times \text{KFz} \quad 0,081 \times 1,09 = 0,088$$

Final cutting data recommendation:

$$\text{Max Ae} = 30\% \cdot 0,7 \cdot 25 = 5,25 \text{ mm}$$

$$\text{Vc new} = 45 \cdot 1,2 = 54 \text{ m/min}$$

$$\text{Fz new} = 0,081 \cdot 1,09 = 0,088 \text{ mm/th}$$

Application Data • Minimum Helical Interpolation Diameter • METRIC

Tool. dia. mm	Interpolation dia. mm
10	14,25
12	16,25
16	21,31
20	26,38
25	32,44

Maximum ramp angle is 2° on centerline.

Industries



Aerospace



Medical

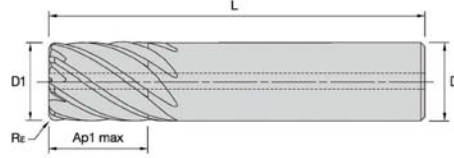


General Engineering



Wind & Solar

INCH



- Primary
- Secondary

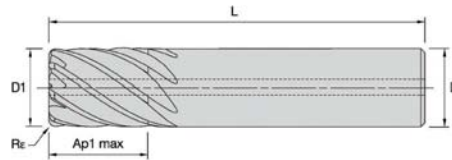
P	Blue	○
M	Yellow	●
K	Red	
N	Green	
S	Orange	●
H	Grey	○

HARVI™ IV

Radiused • 8 Flutes • Internal Coolant • Plain Shank • **INCH**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Inch	7102409	HA4R8RA0375S050HAR015I	3/8	3/8	1/2	2 1/2	0.015	●
	7102410	HA4R8RA0375S050HAR030I	3/8	3/8	1/2	2 1/2	.030	●
	7102421	HA4R8RA0375S050HAR060I	3/8	3/8	1/2	2 1/2	.060	●
	7102423	HA4R8RA0375R075HAR015I	3/8	3/8	3/4	2 1/2	.015	●
	7102424	HA4R8RA0375R075HAR030I	3/8	3/8	3/4	2 1/2	.030	●
	7102425	HA4R8RA0375R075HAR060I	3/8	3/8	3/4	2 1/2	.060	●
	7102427	HA4R8RA0500S063HAR015I	1/2	1/2	5/8	3	0.015	●
	7102428	HA4R8RA0500S063HAR030I	1/2	1/2	5/8	3	0.03	●
	7102429	HA4R8RA0500S063HAR060I	1/2	1/2	5/8	3	.060	●
	7102430	HA4R8RA0500S063HAR090I	1/2	1/2	5/8	3	.090	●
	7102431	HA4R8RA0500S063HAR120I	1/2	1/2	5/8	3	.120	●
	7102433	HA4R8RA0500R100HAR015I	1/2	1/2	1	3	.015	●
	7102434	HA4R8RA0500R100HAR030I	1/2	1/2	1	3	.030	●
	7102435	HA4R8RA0500R100HAR060I	1/2	1/2	1	3	.060	●
	7102436	HA4R8RA0500R100HAR090I	1/2	1/2	1	3	.090	●
	7102437	HA4R8RA0500R100HAR120I	1/2	1/2	1	3	.120	●
	7102439	HA4R8RA0625S075HAR030I	5/8	5/8	3/4	3	0.03	●
	7102440	HA4R8RA0625S075HAR060I	5/8	5/8	3/4	3	0.06	●
	7102441	HA4R8RA0625S075HAR090I	5/8	5/8	3/4	3	0.09	●
	7102442	HA4R8RA0625S075HAR120I	5/8	5/8	3/4	3	0.12	●
	7102443	HA4R8RA0625S075HAR190I	5/8	5/8	3/4	3	0.19	●
	7102448	HA4R8RA0625R125HAR030I	5/8	5/8	1 1/4	3 1/2	.030	●
	7102449	HA4R8RA0625R125HAR060I	5/8	5/8	1 1/4	3 1/2	.060	●
	7102450	HA4R8RA0625R125HAR090I	5/8	5/8	1 1/4	3 1/2	.090	●
	7102451	HA4R8RA0625R125HAR120I	5/8	5/8	1 1/4	3 1/2	.120	●
	7102452	HA4R8RA0625R125HAR190I	5/8	5/8	1 1/4	3 1/2	.190	●
	7102454	HA4R8RA0750S100HAR030I	3/4	3/4	1	3 1/2	.030	●
	7102455	HA4R8RA0750S100HAR060I	3/4	3/4	1	3 1/2	.060	●
	7102456	HA4R8RA0750S100HAR090I	3/4	3/4	1	3 1/2	.090	●
	7102457	HA4R8RA0750S100HAR120I	3/4	3/4	1	3 1/2	.120	●
	7102458	HA4R8RA0750S100HAR190I	3/4	3/4	1	3 1/2	.190	●
	7102460	HA4R8RA0750R163HAR030I	3/4	3/4	1 5/8	4	.030	●
	7102461	HA4R8RA0750R163HAR060I	3/4	3/4	1 5/8	4	.060	●
	7102462	HA4R8RA0750R163HAR090I	3/4	3/4	1 5/8	4	.090	●
	7102463	HA4R8RA0750R163HAR120I	3/4	3/4	1 5/8	4	.120	●
	7102464	HA4R8RA0750R163HAR190I	3/4	3/4	1 5/8	4	.190	●
	7102466	HA4R8RA1000S125HAR030I	1	1	1 1/4	4	.030	●
	7102467	HA4R8RA1000S125HAR060I	1	1	1 1/4	4	.060	●



- Primary
- Secondary

P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

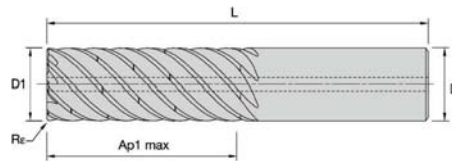
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HARVI™ IV

Radiused • 8 Flutes • Internal Coolant • Plain Shank • **INCH**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Inch	7102468	HA4R8RA1000S125HAR120I	1	1	1 1/4	4	.120	●
	7102469	HA4R8RA1000S125HAR190I	1	1	1 1/4	4	.190	●
	7102470	HA4R8RA1000S125HAR250I	1	1	1 1/4	4	.250	●
	7102472	HA4R8RA1000S175HAR030I	1	1	1 3/4	4 1/2	.030	●
	7102473	HA4R8RA1000S175HAR060I	1	1	1 3/4	4 1/2	.060	●
	7102474	HA4R8RA1000S175HAR120I	1	1	1 3/4	4 1/2	.120	●
	7102475	HA4R8RA1000S175HAR190I	1	1	1 3/4	4 1/2	0.19	●
	7102476	HA4R8RA1000S175HAR250I	1	1	1 3/4	4 1/2	.250	●
	7102478	HA4R8RA1000R200HAR030I	1	1	2	5	.030	●
	7102479	HA4R8RA1000R200HAR060I	1	1	2	5	.060	●
	7102480	HA4R8RA1000R200HAR120I	1	1	2	5	.120	●
	7102481	HA4R8RA1000R200HAR190I	1	1	2	5	.190	●
	7102482	HA4R8RA1000R200HAR250I	1	1	2	5	.250	●

KCSM15A



- Primary
- Secondary

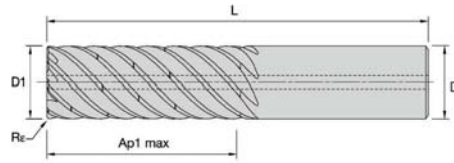
P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Radiused • 8 Flutes • Chip Splitters • Internal Coolant • Plain Shank • **INCH**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Inch	7102837	HA4R8RA0375R100HAR030D	3/8	3/8	1	3	.030	●
	7102838	HA4R8RA0375R100HAR060D	3/8	3/8	1	3	.060	●
	7102840	HA4R8RA0375L125HAR015D	3/8	3/8	1 1/4	3	.015	●
	7102851	HA4R8RA0375L125HAR030D	3/8	3/8	1 1/4	3	.030	●
	7102852	HA4R8RA0375L125HAR060D	3/8	3/8	1 1/4	3	.060	●
	7102854	HA4R8RA0375X150HAR030D	3/8	3/8	1 1/2	3 1/2	.030	●
	7102855	HA4R8RA0375X150HAR060D	3/8	3/8	1 1/2	3 1/2	.060	●
	7102857	HA4R8RA0500R125HAR030D	1/2	1/2	1 1/4	3 1/2	.030	●
	7102858	HA4R8RA0500R125HAR060D	1/2	1/2	1 1/4	3 1/2	.060	●
	7102859	HA4R8RA0500R125HAR090D	1/2	1/2	1 1/4	3 1/2	.090	●
	7102860	HA4R8RA0500R125HAR120D	1/2	1/2	1 1/4	3 1/2	.120	●
	7102862	HA4R8RA0500L163HAR015D	1/2	1/2	1 5/8	4	.015	●
	7102863	HA4R8RA0500L163HAR030D	1/2	1/2	1 5/8	4	.030	●
	7102864	HA4R8RA0500L163HAR060D	1/2	1/2	1 5/8	4	.060	●
	7102865	HA4R8RA0500L163HAR090D	1/2	1/2	1 5/8	4	.090	●
	7102866	HA4R8RA0500L163HAR120D	1/2	1/2	1 5/8	4	.120	●
	7102868	HA4R8RA0500X200HAR030D	1/2	1/2	2	4	.030	●
	7102869	HA4R8RA0500X200HAR060D	1/2	1/2	2	4	.060	●
	7102870	HA4R8RA0500X200HAR090D	1/2	1/2	2	4	.090	●
	7102871	HA4R8RA0500X200HAR120D	1/2	1/2	2	4	.120	●

KCSM15A



- Primary
- Secondary

P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

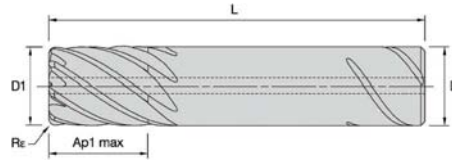
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HARVI™ IV

Radiused • 8 Flutes • Chip Splitters • Internal Coolant • Plain Shank • **INCH**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Inch	7102873	HA4R8RA0625R163HAR030D	5/8	5/8	1 5/8	4	.030	●
	7102874	HA4R8RA0625R163HAR060D	5/8	5/8	1 5/8	4	.060	●
	7102875	HA4R8RA0625R163HAR090D	5/8	5/8	1 5/8	4	.090	●
	7102876	HA4R8RA0625R163HAR120D	5/8	5/8	1 5/8	4	.120	●
	7102877	HA4R8RA0625R163HAR190D	5/8	5/8	1 5/8	4	.190	●
	7102879	HA4R8RA0625L188HAR030D	5/8	5/8	1 7/8	4	.030	●
	7102880	HA4R8RA0625L188HAR060D	5/8	5/8	1 7/8	4	.060	●
	7102881	HA4R8RA0625L188HAR090D	5/8	5/8	1 7/8	4	.090	●
	7102882	HA4R8RA0625L188HAR120D	5/8	5/8	1 7/8	4	.120	●
	7102883	HA4R8RA0625L188HAR190D	5/8	5/8	1 7/8	4	.190	●
	7102885	HA4R8RA0625X250HAR030D	5/8	5/8	2 1/2	5	.030	●
	7102886	HA4R8RA0625X250HAR060D	5/8	5/8	2 1/2	5	.060	●
	7102887	HA4R8RA0625X250HAR090D	5/8	5/8	2 1/2	5	.090	●
	7102888	HA4R8RA0625X250HAR120D	5/8	5/8	2 1/2	5	.120	●
	7102889	HA4R8RA0625X250HAR190D	5/8	5/8	2 1/2	5	.190	●
	7102891	HA4R8RA0750R163HAR030D	3/4	3/4	1 5/8	4	.030	●
	7102892	HA4R8RA0750R163HAR060D	3/4	3/4	1 5/8	4	.060	●
	7102893	HA4R8RA0750R163HAR090D	3/4	3/4	1 5/8	4	.090	●
	7102894	HA4R8RA0750R163HAR120D	3/4	3/4	1 5/8	4	.120	●
	7102895	HA4R8RA0750R163HAR190D	3/4	3/4	1 5/8	4	.190	●
	7102897	HA4R8RA0750L225HAR030D	3/4	3/4	2 1/4	5	.030	●
	7102898	HA4R8RA0750L225HAR060D	3/4	3/4	2 1/4	5	.060	●
	7102899	HA4R8RA0750L225HAR090D	3/4	3/4	2 1/4	5	.090	●
	7102900	HA4R8RA0750L225HAR120D	3/4	3/4	2 1/4	5	.120	●
	7102901	HA4R8RA0750L225HAR190D	3/4	3/4	2 1/4	5	.190	●
	7102903	HA4R8RA0750X325HAR030D	3/4	3/4	3 1/4	6	.030	●
	7102904	HA4R8RA0750X325HAR060D	3/4	3/4	3 1/4	6	.060	●
	7102905	HA4R8RA0750X325HAR090D	3/4	3/4	3 1/4	6	.090	●
	7102907	HA4R8RA0750X325HAR120D	3/4	3/4	3 1/4	6	.120	●
	7102908	HA4R8RA0750X325HAR190D	3/4	3/4	3 1/4	6	.190	●
	7102910	HA4R8RA1000R250HAR030D	1	1	2 1/2	5 1/2	.030	●
	7102911	HA4R8RA1000R250HAR060D	1	1	2 1/2	5 1/2	.060	●
	7102912	HA4R8RA1000R250HAR120D	1	1	2 1/2	5 1/2	.120	●
	7102913	HA4R8RA1000R250HAR190D	1	1	2 1/2	5 1/2	.190	●
	7102914	HA4R8RA1000R250HAR250D	1	1	2 1/2	5 1/2	.250	●
	7102916	HA4R8RA1000L325HAR030D	1	1	3 1/4	6	.030	●
	7102917	HA4R8RA1000L325HAR060D	1	1	3 1/4	6	.060	●
	7102918	HA4R8RA1000L325HAR120D	1	1	3 1/4	6	.120	●
	7102919	HA4R8RA1000L325HAR190D	1	1	3 1/4	6	.190	●
	7102920	HA4R8RA1000L325HAR250D	1	1	3 1/4	6	.250	●
7102922	HA4R8RA1000X400HAR030D	1	1	4	7	.030	●	
7102923	HA4R8RA1000X400HAR060D	1	1	4	7	.060	●	
7102924	HA4R8RA1000X400HAR120D	1	1	4	7	.120	●	
7102926	HA4R8RA1000X400HAR190D	1	1	4	7	.190	●	
7102927	HA4R8RA1000X400HAR250D	1	1	4	7	.250	●	



- Primary
- Secondary

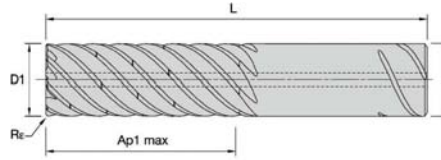
P	 	○
M	 	●
K	 	○
N	 	○
S	 	●
H	 	○

HARVI™ IV

Radiused • 8 Flutes • Internal Coolant • Safe-Lock™ Shank • **INCH**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
Inch	7102484	HA4R8RA0500S063SLR015I	1/2	1/2	5/8	3	.015	●
	7102485	HA4R8RA0500S063SLR030I	1/2	1/2	5/8	3	.030	●
	7102486	HA4R8RA0500S063SLR060I	1/2	1/2	5/8	3	.060	●
	7102487	HA4R8RA0500S063SLR090I	1/2	1/2	5/8	3	.090	●
	7102488	HA4R8RA0500S063SLR120I	1/2	1/2	5/8	3	.120	●
	7102490	HA4R8RA0500R100SLR015I	1/2	1/2	1	3	.015	●
	7102511	HA4R8RA0500R100SLR030I	1/2	1/2	1	3	.030	●
	7102512	HA4R8RA0500R100SLR060I	1/2	1/2	1	3	.060	●
	7102513	HA4R8RA0500R100SLR090I	1/2	1/2	1	3	.090	●
	7102514	HA4R8RA0500R100SLR120I	1/2	1/2	1	3	.120	●
	7102516	HA4R8RA0625S075SLR030I	5/8	5/8	3/4	3	.030	●
	7102517	HA4R8RA0625S075SLR060I	5/8	5/8	3/4	3	.060	●
	7102518	HA4R8RA0625S075SLR090I	5/8	5/8	3/4	3	.090	●
	7102519	HA4R8RA0625S075SLR120I	5/8	5/8	3/4	3	.120	●
	7102520	HA4R8RA0625S075SLR190I	5/8	5/8	3/4	3	.190	●
	7102522	HA4R8RA0625R125SLR030I	5/8	5/8	1 1/4	3 1/2	.030	●
	7102523	HA4R8RA0625R125SLR060I	5/8	5/8	1 1/4	3 1/2	.060	●
	7102524	HA4R8RA0625R125SLR090I	5/8	5/8	1 1/4	3 1/2	.090	●
	7102525	HA4R8RA0625R125SLR120I	5/8	5/8	1 1/4	3 1/2	.120	●
	7102526	HA4R8RA0625R125SLR190I	5/8	5/8	1 1/4	3 1/2	.190	●
	7102528	HA4R8RA0750S100SLR030I	3/4	3/4	1	3 1/2	.030	●
	7102529	HA4R8RA0750S100SLR060I	3/4	3/4	1	3 1/2	.060	●
	7102530	HA4R8RA0750S100SLR090I	3/4	3/4	1	3 1/2	.090	●
	7102531	HA4R8RA0750S100SLR120I	3/4	3/4	1	3 1/2	.120	●
	7102532	HA4R8RA0750S100SLR190I	3/4	3/4	1	3 1/2	.190	●
	7102534	HA4R8RA0750R163SLR030I	3/4	3/4	1 5/8	4	.030	●
	7102535	HA4R8RA0750R163SLR060I	3/4	3/4	1 5/8	4	.060	●
	7102536	HA4R8RA0750R163SLR090I	3/4	3/4	1 5/8	4	.090	●
	7102537	HA4R8RA0750R163SLR120I	3/4	3/4	1 5/8	4	.120	●
	7102538	HA4R8RA0750R163SLR190I	3/4	3/4	1 5/8	4	.190	●
	7102540	HA4R8RA1000S125SLR030I	1	1	1 1/4	4	.030	●
	7102541	HA4R8RA1000S125SLR060I	1	1	1 1/4	4	.060	●
	7102542	HA4R8RA1000S125SLR120I	1	1	1 1/4	4	.120	●
	7102543	HA4R8RA1000S125SLR190I	1	1	1 1/4	4	.190	●
	7102544	HA4R8RA1000S125SLR250I	1	1	1 1/4	4	.250	●
	7102546	HA4R8RA1000S175SLR030I	1	1	1 3/4	4 1/2	.030	●
	7102547	HA4R8RA1000S175SLR060I	1	1	1 3/4	4 1/2	.060	●
	7102548	HA4R8RA1000S175SLR120I	1	1	1 3/4	4 1/2	.120	●
	7102549	HA4R8RA1000S175SLR190I	1	1	1 3/4	4 1/2	.190	●
	7102550	HA4R8RA1000S175SLR250I	1	1	1 3/4	4 1/2	.250	●
7102552	HA4R8RA1000R200SLR030I	1	1	2	5	.030	●	
7102553	HA4R8RA1000R200SLR060I	1	1	2	5	.060	●	
7102554	HA4R8RA1000R200SLR120I	1	1	2	5	.120	●	
7102555	HA4R8RA1000R200SLR190I	1	1	2	5	.190	●	
7102556	HA4R8RA1000R200SLR250I	1	1	2	5	.250	●	



- Primary
- Secondary

P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

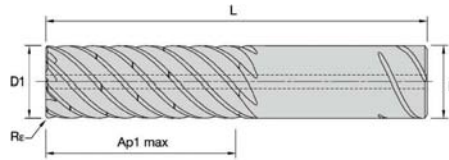
HARVI™ IV

Radiused • 8 Flutes • Chip Splitters • Internal Coolant • Safe-Lock™ Shank • **INCH**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Re	
	7102929	HA4R8RA0500R125SLR030D	1/2	1/2	1 1/4	3 1/2	.030	●
	7102930	HA4R8RA0500R125SLR060D	1/2	1/2	1 1/4	3 1/2	.060	●
	7102931	HA4R8RA0500R125SLR090D	1/2	1/2	1 1/4	3 1/2	.090	●
	7102932	HA4R8RA0500R125SLR120D	1/2	1/2	1 1/4	3 1/2	.120	●
	7102934	HA4R8RA0500L163SLR015D	1/2	1/2	1 5/8	4	.015	●
	7102935	HA4R8RA0500L163SLR030D	1/2	1/2	1 5/8	4	.030	●
	7102936	HA4R8RA0500L163SLR060D	1/2	1/2	1 5/8	4	.060	●
	7102937	HA4R8RA0500L163SLR090D	1/2	1/2	1 5/8	4	.090	●
	7102938	HA4R8RA0500L163SLR120D	1/2	1/2	1 5/8	4	.120	●
	7102940	HA4R8RA0500X200SLR030D	1/2	1/2	2	4	.030	●
	7102941	HA4R8RA0500X200SLR060D	1/2	1/2	2	4	.060	●
	7102942	HA4R8RA0500X200SLR090D	1/2	1/2	2	4	.090	●
	7102944	HA4R8RA0500X200SLR120D	1/2	1/2	2	4	.120	●
	7102946	HA4R8RA0625R163SLR030D	5/8	5/8	1 5/8	4	.030	●
	7102947	HA4R8RA0625R163SLR060D	5/8	5/8	1 5/8	4	.060	●
	7102948	HA4R8RA0625R163SLR090D	5/8	5/8	1 5/8	4	.090	●
	7102949	HA4R8RA0625R163SLR120D	5/8	5/8	1 5/8	4	.120	●
	7102950	HA4R8RA0625R163SLR190D	5/8	5/8	1 5/8	4	.190	●
	7102962	HA4R8RA0625L188SLR030D	5/8	5/8	1 7/8	4	.030	●
	7102963	HA4R8RA0625L188SLR060D	5/8	5/8	1 7/8	4	.060	●
	7102964	HA4R8RA0625L188SLR090D	5/8	5/8	1 7/8	4	.090	●
	7102965	HA4R8RA0625L188SLR120D	5/8	5/8	1 7/8	4	.120	●
	7102967	HA4R8RA0625L188SLR190D	5/8	5/8	1 7/8	4	.190	●
	7102969	HA4R8RA0625X250SLR030D	5/8	5/8	2 1/2	5	.030	●
	7102970	HA4R8RA0625X250SLR060D	5/8	5/8	2 1/2	5	.060	●
	7102991	HA4R8RA0625X250SLR090D	5/8	5/8	2 1/2	5	.090	●
	7102992	HA4R8RA0625X250SLR120D	5/8	5/8	2 1/2	5	.120	●
	7102993	HA4R8RA0625X250SLR190D	5/8	5/8	2 1/2	5	.190	●
	7102995	HA4R8RA0750R163SLR030D	3/4	3/4	1 5/8	4	.030	●
	7102996	HA4R8RA0750R163SLR060D	3/4	3/4	1 5/8	4	.060	●
	7102997	HA4R8RA0750R163SLR090D	3/4	3/4	1 5/8	4	.090	●
	7102998	HA4R8RA0750R163SLR120D	3/4	3/4	1 5/8	4	.120	●
	7102999	HA4R8RA0750R163SLR190D	3/4	3/4	1 5/8	4	.190	●
	7103001	HA4R8RA0750L225SLR030D	3/4	3/4	2 1/4	5	.030	●
	7103003	HA4R8RA0750L225SLR060D	3/4	3/4	2 1/4	5	.060	●
	7103004	HA4R8RA0750L225SLR090D	3/4	3/4	2 1/4	5	.090	●
	7103005	HA4R8RA0750L225SLR120D	3/4	3/4	2 1/4	5	.120	●
	7103006	HA4R8RA0750L225SLR190D	3/4	3/4	2 1/4	5	.190	●
	7103009	HA4R8RA0750X325SLR030D	3/4	3/4	3 1/4	6	.030	●
	7103010	HA4R8RA0750X325SLR060D	3/4	3/4	3 1/4	6	.060	●
	7103021	HA4R8RA0750X325SLR090D	3/4	3/4	3 1/4	6	.090	●
	7103022	HA4R8RA0750X325SLR120D	3/4	3/4	3 1/4	6	.120	●
	7103023	HA4R8RA0750X325SLR190D	3/4	3/4	3 1/4	6	.190	●

Inch



- Primary
- Secondary

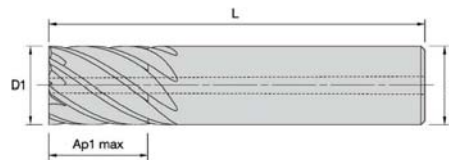
P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

Continued

HARVI™ IV

Radiused • 8 Flutes • Chip Splitters • Internal Coolant • Safe-Lock™ Shank • **INCH**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	Rε	
Inch	7103025	HA4R8RA1000R250SLR030D	1	1	2 1/2	5 1/2	.030	●
	7103026	HA4R8RA1000R250SLR060D	1	1	2 1/2	5 1/2	.060	●
	7103027	HA4R8RA1000R250SLR120D	1	1	2 1/2	5 1/2	.120	●
	7103029	HA4R8RA1000R250SLR190D	1	1	2 1/2	5 1/2	.190	●
	7103030	HA4R8RA1000R250SLR250D	1	1	2 1/2	5 1/2	.250	●
	7103032	HA4R8RA1000L325SLR030D	1	1	3 1/4	6	.030	●
	7103033	HA4R8RA1000L325SLR060D	1	1	3 1/4	6	.060	●
	7103034	HA4R8RA1000L325SLR120D	1	1	3 1/4	6	.120	●
	7103035	HA4R8RA1000L325SLR190D	1	1	3 1/4	6	.190	●
	7103036	HA4R8RA1000L325SLR250D	1	1	3 1/4	6	.250	●
	7103038	HA4R8RA1000X400SLR030D	1	1	4	7	.030	●
	7103039	HA4R8RA1000X400SLR060D	1	1	4	7	.060	●
	7103040	HA4R8RA1000X400SLR120D	1	1	4	7	.120	●
	7103042	HA4R8RA1000X400SLR190D	1	1	4	7	.190	●
	7103043	HA4R8RA1000X400SLR250D	1	1	4	7	.250	●



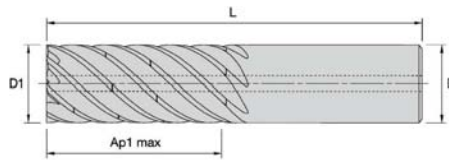
- Primary
- Secondary

P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Internal Coolant • Plain Shank • **INCH**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Inch	7102422	HA4R8SE0375S050HAI	3/8	3/8	1/2	2 1/2	●
	7102426	HA4R8SE0375R075HAI	3/8	3/8	3/4	2 1/2	●
	7102432	HA4R8SE0500S063HAI	1/2	1/2	5/8	3	●
	7102438	HA4R8SE0500R100HAI	1/2	1/2	1	3	●
	7102447	HA4R8SE0625S075HAI	5/8	5/8	3/4	3	●
	7102453	HA4R8SE0625R125HAI	5/8	5/8	1 1/4	3 1/2	●
	7102459	HA4R8SE0750S100HAI	3/4	3/4	1	3 1/2	●
	7102465	HA4R8SE0750R163HAI	3/4	3/4	1 5/8	4	●
	7102483	HA4R8SE1000R200HAI	1	1	2	5	●
	7102471	HA4R8SE1000S125HAI	1	1	1 1/4	4	●
	7102477	HA4R8SE1000S175HAI	1	1	1 3/4	4 1/2	●



- Primary
- Secondary

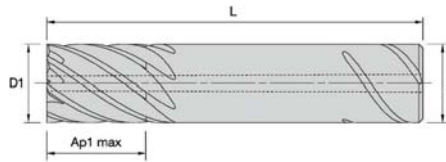
P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Chip Splitters • Internal Coolant • Plain Shank • **INCH**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Inch	7102839	HA4R8SE0375R100HAD	3/8	3/8	1	3	●
	7102853	HA4R8SE0375L125HAD	3/8	3/8	1 1/4	3	●
	7102856	HA4R8SE0375X150HAD	3/8	3/8	1 1/2	3 1/2	●
	7102861	HA4R8SE0500R125HAD	1/2	1/2	1 1/4	3 1/2	●
	7102867	HA4R8SE0500L163HAD	1/2	1/2	1 5/8	4	●
	7102872	HA4R8SE0500X200HAD	1/2	1/2	2	4	●
	7102878	HA4R8SE0625R163HAD	5/8	5/8	1 5/8	4	●
	7102884	HA4R8SE0625L188HAD	5/8	5/8	1 7/8	4	●
	7102890	HA4R8SE0625X250HAD	5/8	5/8	2 1/2	5	●
	7102896	HA4R8SE0750R163HAD	3/4	3/4	1 5/8	4	●
	7102902	HA4R8SE0750L225HAD	3/4	3/4	2 1/4	5	●
	7102909	HA4R8SE0750X325HAD	3/4	3/4	3 1/4	6	●
	7102915	HA4R8SE1000R250HAD	1	1	2 1/2	5 1/2	●
	7102921	HA4R8SE1000L325HAD	1	1	3 1/4	6	●
	7102928	HA4R8SE1000X400HAD	1	1	4	7	●

KCSM15A



- Primary
- Secondary

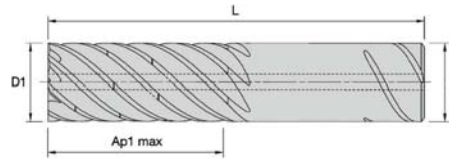
P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Internal Coolant • Safe-Lock™ Shank • **INCH**

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Inch	7102489	HA4R8SE0500S063SLI	1/2	1/2	5/8	3	●
	7102515	HA4R8SE0500R100SLI	1/2	1/2	1	3	●
	7102521	HA4R8SE0625S075SLI	5/8	5/8	3/4	3	●
	7102527	HA4R8SE0625R125SLI	5/8	5/8	1 1/4	3 1/2	●
	7102533	HA4R8SE0750S100SLI	3/4	3/4	1	3 1/2	●
	7102539	HA4R8SE0750R163SLI	3/4	3/4	1 5/8	4	●
	7102545	HA4R8SE1000S125SLI	1	1	1 1/4	4	●
	7102551	HA4R8SE1000S175SLI	1	1	1 3/4	4 1/2	●
	7102557	HA4R8SE1000R200SLI	1	1	2	5	●

KCSM15A



- Primary
- Secondary

P	Blue	○
M	Yellow	●
K	Red	○
N	Green	○
S	Orange	●
H	Grey	○

HARVI™ IV

Square End • 8 Flutes • Chip Splitters • Internal Coolant • Safe-Lock™ Shank • **INCH**

KCSM15A

	Order Number	Catalog Number	D1	D	Ap1 Max	L	
Inch	7102933	HA4R8SE0500R125SLD	1/2	1/2	1 1/4	3 1/2	●
	7102939	HA4R8SE0500L163SLD	1/2	1/2	1 5/8	4	●
	7102945	HA4R8SE0500X200SLD	1/2	1/2	2	4	●
	7102961	HA4R8SE0625R163SLD	5/8	5/8	1 5/8	4	●
	7102968	HA4R8SE0625L188SLD	5/8	5/8	1 7/8	4	●
	7102994	HA4R8SE0625X250SLD	5/8	5/8	2 1/2	5	●
	7103000	HA4R8SE0750R163SLD	3/4	3/4	1 5/8	4	●
	7103007	HA4R8SE0750L225SLD	3/4	3/4	2 1/4	5	●
	7103024	HA4R8SE0750X325SLD	3/4	3/4	3 1/4	6	●
	7103031	HA4R8SE1000R250SLD	1	1	2 1/2	5 1/2	●
	7103037	HA4R8SE1000L325SLD	1	1	3 1/4	6	●
	7103044	HA4R8SE1000X400SLD	1	1	4	7	●

HARVI™ IV • Side Milling/Slotting • Application Data • **INCH**

Material Group	Max Ae Factor (KAp)	KCSM15A Base Cutting Speed Vc SFM	Recommended Base Feed per Tooth Value (IPT=Inch/tooth)						
			D1 - Diameter						
			frac.	3/8	1/2	5/8	3/4	1	
			dec.	0.375	0.5	0.625	0.75	1	
P	3	1	420	IPT	0.0018	0.0023	0.0027	0.003	0.0037
	4	1	320	IPT	0.0016	0.0021	0.0024	0.0026	0.0031
	5	0.8	210	IPT	0.0014	0.0018	0.0022	0.0024	0.0029
	6	0.7	160	IPT	0.0012	0.0015	0.0018	0.0019	0.0022
M	1	1	275	IPT	0.0018	0.0023	0.0027	0.003	0.0037
	2	0.8	200	IPT	0.0014	0.0018	0.0022	0.0024	0.0029
	3	0.8	200	IPT	0.0012	0.0015	0.0018	0.0019	0.0022
S	1	0.5	160	IPT	0.0018	0.0023	0.0027	0.003	0.0037
	2	0.5	100	IPT	0.0014	0.0018	0.0022	0.0024	0.0029
	3	0.5	80	IPT	0.001	0.0013	0.0014	0.0016	0.002
	4	0.7	160	IPT	0.0016	0.002	0.0024	0.0027	0.0032
H	1	0.8	260	IPT	0.0016	0.0021	0.0024	0.0026	0.0031
	2	0.5	230	IPT	0.0014	0.0018	0.002	0.0022	0.0026

NOTE:

These guidelines may require variations to achieve optimum results.

Above parameters are based on ideal conditions. For smaller taper machining centers, please adjust parameters accordingly on >1/2" diameter. Maximum ramp angle is 2°.

Tools with chip splitters can be used as finishers.

Maximum Cutting Width and Adjustment Factors for Speed & Feed Calculation • **INCH**

Maximum cutting width (Ae) for given cutting depth (Ap)

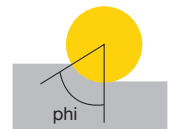
Ap	≤0.125 x D1	>0.125xD1 ≤ .5xD1	>0.5xD1 ≤ 1xD1	>1xD1 ≤ 2xD1	>2xD1 ≤ 3xD1	>3xD1 ≤ 4xD1	>4 x D1
Max Ae	100% x D1	50% x D1 x KAp	40% x D1 x KAp	30% x D1 x KAp	20% x D1 x KAp	15% x D1 x KAp	10% x D1 x KAp

Adjustment factors for speed (Vc) and feed (Fz)

Ae/D1	≤2%	>2% ≤ 5%	>5 ≤ 7.5%	>7.5% ≤ 10%	>10% ≤ 15%	>15% ≤ 20%	>20% ≤ 30%	>30% ≤ 40%	>40% ≤ 50%	>50% ≤ 100%
Kv	3	2.5	1.9	1.4	1.35	1.3	1.2	1.1	1	0.9
KFz	3.28	2.3	1.95	1.7	1.5	1.25	1.09	1.02	1	1

Angle of engagement (phi°) relative to cutting width (Ae)

Ae	2%	5%	7.50%	10%	15%	20%	30%	40%	50%	100%
phi°	16.26	25.84	31.79	36.87	45.57	53.13	66.42	78.46	90	180



To calculate application specific cutting data, please use KAp, Kv, and Kfz from tables above for adaption of cutting speeds and feeds respectively:

$$\text{Maximum Ae} = \text{KAp} * \text{D1} * \text{Ap1Max/D1}$$

$$\text{Vc new} = \text{Vc} * \text{Kv}$$

$$\text{IPT new} = \text{IPT} * \text{KFz}$$

Sample Calculation

Material: S4

D1: 1"

Ap: 2xD1

Max Ae: 30% x Kap x D1	30% x .7 x D1 = 21%xD1
------------------------	------------------------

SFM: Base x Kv	160 x 1.2 = 192
----------------	-----------------

IPT: Base x KFz	.0032 x 1.09 = .0035
-----------------	----------------------

Final cutting data recommendation:

$$\text{Max Ae} = 30\% * 0.7 * 1 = 0.21"$$

$$\text{Vc new} = 160 * 1.2 = 192 \text{ SFM}$$

$$\text{IPT new} = 0.0032 * 1.09 = .0035 \text{ IPT}$$

Application Data • Minimum Helical Interpolation Diameter • **INCH**

Tool. dia. inch	Interpolation dia. inch
3/8	0.54
1/2	0.67
5/8	0.83
3/4	1.00
1	1.29

Maximum ramp angle is 2° on centerline.

Level Up with 8 Flutes.

When you're creating in the aerospace and defense, medical, energy and general engineering industries, you need one tool that can withstand the most challenging materials—no more stopping for tool changes between cuts. Prepare to get unfamiliar with downtime.



Our Story Is One of Continuous Innovation

It starts in 1936 with our founder, metallurgist Philip M. McKenna, who after years of research created a tungsten-titanium carbide alloy specifically for cutting tools. That single development not only led to a new class of machining tools that cut faster, lasted longer and drove productivity in everything from the automobile to the airplane, but also led to the opening of McKenna Metals Company in Latrobe, Pennsylvania, United States. Today, that company is Kennametal Inc.—a recognized leader in metalworking serving customers across continents and industries including transportation, construction, aerospace, machining and cutting, energy and general engineering. We have a reputation for building innovative solutions for our customers' most challenging applications. The name Kennametal is synonymous for high-quality, high-performance tools that can withstand the most strenuous conditions and bring ease to a wide range of machining operations. We help our customers' operations run longer, faster and with greater precision. We don't cut corners. We cut metal. Your toughest materials don't stand a chance.

Your toughest materials don't stand a chance.



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TO THE NEXT LEVEL

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