

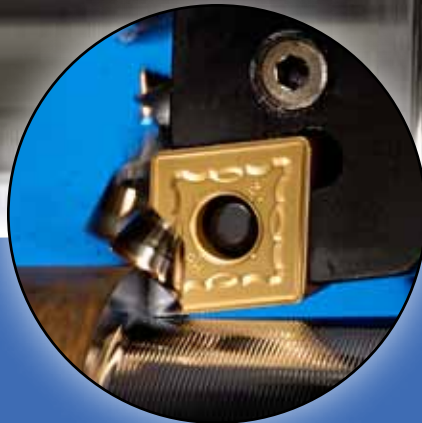


KYOCERA CVD & PVD Coated Carbide Sale

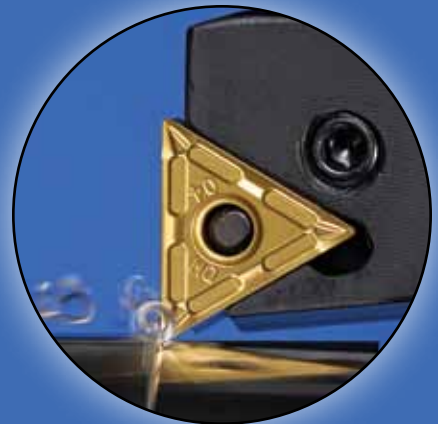
Save 55% to 69% OFF Kyocera's Lineup of CVD & PVD Coated Carbide Inserts!



**CA45-Series
for Cast Iron**



**CA55-Series
for Steel**



**PR1125 & CA65-Series
for Stainless Steel**



**MEGACOAT PR13-Series
for Heat Resistant Alloys**

THE NEW VALUE FRONTIER

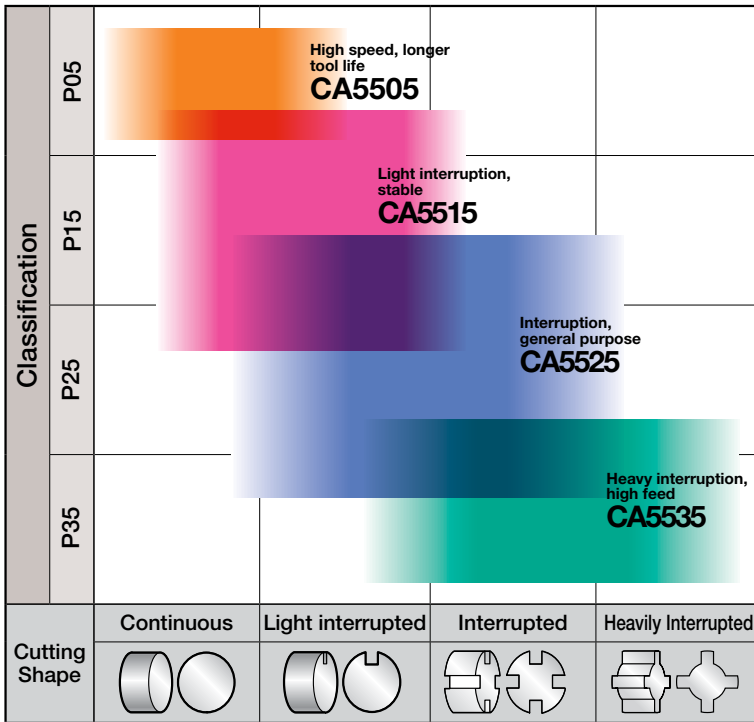


Kyocera Industrial Ceramics Corp.
Cutting Tool Division
www.kyocera.com/cuttingtools

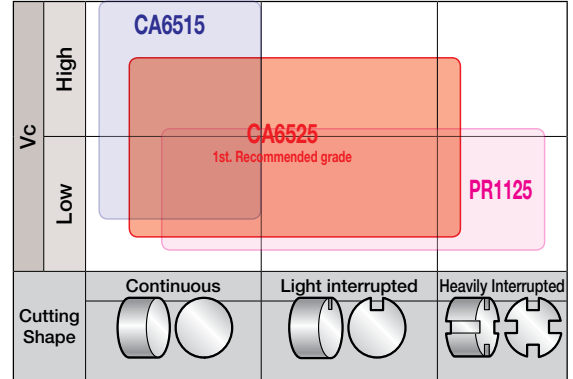
Offer valid only on grades and geometries listed on this flyer.
Offer valid through 10/31/2011

Material Application Maps

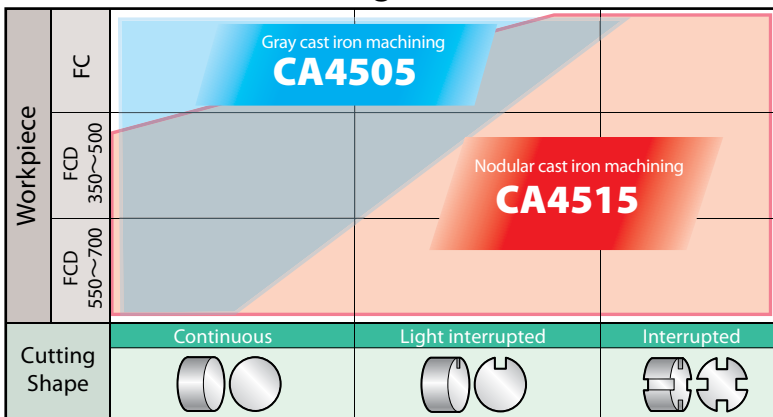
Steel machining



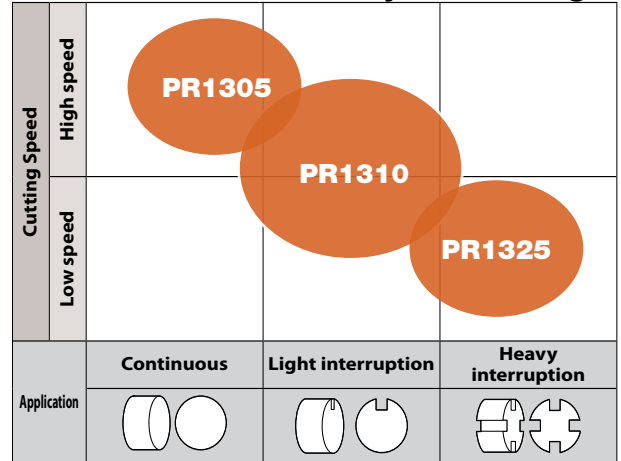
Stainless Steel machining



Cast Iron machining



Heat Resistant Alloy machining







Features of CVD & PVD Coated Carbide

Material	Symbol	Color	Coated Composition	Advantages
 Steel	CA5505	Gold	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> Improved toughness and wear resistance from its micro columnar structure, wear resistance oriented, longer tool life Application: High speed continuous steel turning, continuous to light interruption of cast iron
	CA5515	Gold	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> Improved wear resistance by its micro columnar structure, longer tool life Application: First choice for continuous to light interrupted high speed cutting of steel
	CA5525	Gold	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> Improved toughness and wear resistance by its micro columnar structure, wear resistance oriented, reliable machining Application: First choice for interrupted and general cutting of steel
	CA5535	Gold	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> Improved toughness by micro columnar structure and its high flexural toughness substrate Application: For heavy duty and heavy interruption of steel
 Stainless Steel	CA6515	Gold	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> Special substrate, excellent wear resistance Application: Continuous to light interrupted high speed cutting of stainless steel
	CA6525	Gold	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> Improved toughness by micro columnar structure and its high flexural toughness substrate Application: From continuous to roughing of stainless steel, general purpose
	PR1125	Purple red	TiAlN	<ul style="list-style-type: none"> Hard TiAlN based PVD coating on ultra micro grain carbide, superior toughness and heat resistance Application: Finishing to interrupted machining of stainless steel
 Cast Iron	CA4505	Black	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> Suitable for high-speed and efficient cutting Improved tool life through superior wear resistance
	CA4515	Black	Micro columnar TiCN+Al ₂ O ₃ +TiN	<ul style="list-style-type: none"> First choice for stability Wide application range for continuous to heavy interrupted cutting
 Heat Resistant Alloys	PR1305	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> First choice for continuous / finishing
	PR1310	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> First choice for general purpose
	PR1325	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> First choice for interrupted / roughing


KYOCERA Coated Carbide Sale

(Negative Inserts)





Insert	Description	Eligible Grades	List Price	Sale Price	Discount
	CNMA/G431	CA4505 CA4515 CA5505 CA5515 CA5525 CA5535 CA6515 CA6525 PR1125	\$10.71	\$4.31	60%
	CNMA/G/M432		\$10.71	\$4.32	60%
	CNMA/G/M433		\$10.71	\$4.33	60%
	CNMA/G/M434		\$10.71	\$4.34	59%
	CNMG/M542		\$18.03	\$7.42	59%
	CNMG/M543		\$18.03	\$7.43	59%
	CNMG/M544		\$18.03	\$7.44	59%
	CNMG/M642		\$23.59	\$9.42	60%
	CNMG/M643		\$23.59	\$9.43	60%
	CNMG/M644		\$23.59	\$9.44	60%
	CNMG/M646		\$23.59	\$9.46	60%
	Insert		Description	Eligible Grades	List Price
	DNMG331	CA4505 CA4515 CA5505 CA5515 CA5525 CA5535 CA6515 CA6525 PR1125	\$11.43	\$4.31	62%
	DNMG332		\$11.43	\$4.32	62%
	DNMA/G431		\$17.30	\$5.31	69%
	DNMA/G/M432		\$17.30	\$5.32	69%
	DNMG/M433		\$17.30	\$5.33	69%
	DNMG/M434		\$17.30	\$5.34	69%
	DNMA/G441		\$19.42	\$7.41	62%
	DNMA/G/M442		\$19.42	\$7.42	62%
	DNMG/M443		\$19.42	\$7.43	62%
	DNMG/M444		\$19.42	\$7.44	62%
Insert	Description	Eligible Grades	List Price	Sale Price	Discount
	SNMA/G431	CA4505 CA4515 CA5505 CA5515 CA5525 CA5535 CA6515 CA6525 PR1125	\$11.07	\$4.31	61%
	SNMA/G/M432		\$11.07	\$4.32	61%
	SNMA/G/M433		\$11.07	\$4.33	61%
	SNMA/G/M434		\$11.07	\$4.34	61%
	SNMG/M543		\$19.31	\$8.43	56%
	SNMG/M544		\$19.31	\$8.44	56%
	SNMG/M643		\$22.51	\$9.43	58%
	SNMG/M644		\$22.51	\$9.44	58%
	SNMG/M646		\$22.51	\$9.46	58%
	Insert		Description	Eligible Grades	List Price
	TNMA/G331	CA4505 CA4515 CA5505 CA5515 CA5525 CA5535 CA6515 CA6525 PR1125	\$9.53	\$4.31	55%
	TNMA/G/M332		\$9.53	\$4.32	55%
	TNMA/G/M333		\$9.53	\$4.33	55%
	TNMG431		\$11.69	\$5.31	55%
	TNMG/M432		\$11.69	\$5.32	54%
	TNMG/M433		\$11.69	\$5.33	54%
	TNMG/M434		\$11.69	\$5.34	54%
Insert	Description	Eligible Grades	List Price	Sale Price	Discount
	VNMG331	CA4505 CA4515 CA5505 CA5515 CA5525 CA5535 CA6515 CA6525 PR1125	\$15.97	\$5.31	67%
	VNMG332		\$15.97	\$5.32	67%
	VNMG333		\$15.97	\$5.33	67%

KYOCERA Coated Carbide Sale

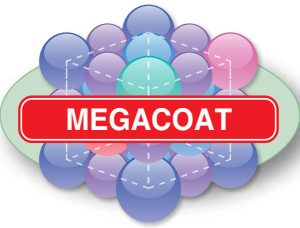
(Negative Inserts)

Insert	Description	Eligible Grades	List Price	Sale Price	Discount
	WNMA/G432	CA4505 CA4515	\$11.33	\$4.32	62%
	WNMA/G433	CA5505	\$11.33	\$4.33	62%
	WNMG331	CA5515 CA5525	\$9.12	\$3.31	64%
	WNMG332	CA5535	\$9.12	\$3.32	64%
	WNMG431	CA6515 CA6525 PR1125	\$11.33	\$4.31	62%

(Positive Inserts)

Insert	Description	Eligible Grades	List Price	Sale Price	Discount
   	CCMT21505/1	CA4505 CA4515 CA5505 CA5515 CA5525 CA5535 CA6515 CA6525 PR1125	\$11.48	\$5.50	52%
	CCMT32505/1/2		\$13.03	\$5.50	58%
	CCMT431/2/3		\$18.54	\$6.50	65%
	CPMT321/2		\$12.62	\$5.50	56%
	DCMT21505/1/2		\$14.47	\$6.00	59%
	DCMT32505/1/2/3		\$16.43	\$6.50	60%
	SCMT3251/2		\$14.11	\$5.50	61%
	TCMT21505/1/2		\$9.06	\$4.00	56%
	TCMT32505/1/2/3		\$9.68	\$4.15	57%
	TPMT2205/1/2		\$9.01	\$4.00	56%
	TPMT321/2		\$10.40	\$4.50	57%

NEW! Heat Resistant Alloy Aerospace Grades

Insert	Description	Eligible Grades	List Price	Sale Price	Discount
	CNMG431/2	PR1305 PR1310 PR1325	\$10.82	\$5.25	51%
	WNMG431/2		\$11.48	\$5.25	54%
	VNMG331/2		\$16.12	\$7.50	53%
	DNMG432		\$17.46	\$8.00	54%
	CNGP431		\$24.21	\$11.00	55%

To place an order, please contact Engman-Taylor at the contact information listed below.

For more information on the Kyocera inserts and grades, visit the Kyocera Cutting Tool website - www.kyocera.com/cuttingtools



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