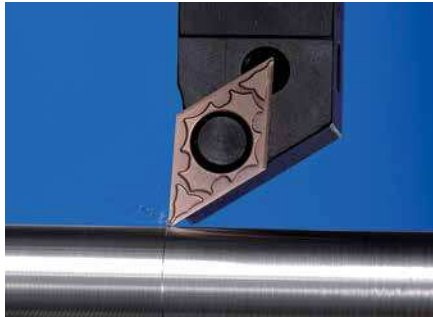


INSERT GRADES

PVD COATED CARBIDE FOR TURNING

PVD COATED CARBIDE (MEGACOAT / MEGACOAT NANO)

KYOCERA's PVD coated carbides for turning utilize very tough carbide substrates. The low processing temperature, compared with CVD, leads to improved bending strength, less deterioration of the coating and superior tool life with stable machining.

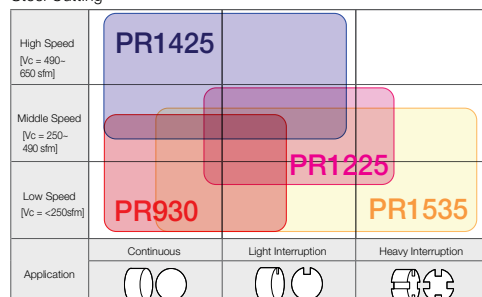


FEATURES OF PVD COATED CARBIDE FOR TURNING

Material	Description	Color	Main Component (Coating Composition)	Advantages
<div style="background-color: #0070C0; color: white; padding: 5px; text-align: center; width: 30px; margin: 0 auto;">P</div> Steel	PR915 (Super Micro-Grain)	Bluish Violet	TiAlN	<ul style="list-style-type: none"> TiAlN base PVD coated super micro-grain carbide, superior wear and oxidation resistance Application: Stable and reliable high precision cutting of steel
	PR930 (Super Micro-Grain)	Reddish Gray	TiCN	<ul style="list-style-type: none"> Hard TiCN base PVD coated super micro-grain carbide Application: Low cutting speed, precise cutting with sharp edge
	PR1005	Reddish Gray	TiCN	<ul style="list-style-type: none"> TiCN base PVD coated hard micro-grain carbide Application: Turning of free-cutting steel, long tool life achieved through anti-adhesion performance
	PR1025	Reddish Gray	TiCN	<ul style="list-style-type: none"> TiCN base PVD coated micro-grain carbide Application: General purpose cutting of steel and stainless steel, stable and long tool life
	PR1115	Purple Red	TiAlN	<ul style="list-style-type: none"> Hard TiAlN base PVD coated super micro-grain carbide Application: Superior anti-oxidation performance with well balanced wear resistance and toughness
	PR1215	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> Superior wear and oxidation-resistant MEGACOAT on micro-grain carbide substrate Application: Superior adhesion-resistant and long tool life for steel and stainless steel cutting
	PR1425	Blackish Red	MEGACOAT NANO	<ul style="list-style-type: none"> Nano thin multi-layer coating performs with superior wear resistance and high oxidation resistance. Application: various applications of steel cutting, High speed stainless steel cutting, extended tool life
<div style="background-color: #FFD700; color: black; padding: 5px; text-align: center; width: 30px; margin: 0 auto;">M</div> Stainless Steel	PR1125	Purple Red	TiAlN	<ul style="list-style-type: none"> Hard TiAlN base PVD coated super micro-grain carbide, superior toughness and heat resistance Application: Finishing and light interrupted cutting of stainless steel
	PR1225	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> Superior wear and oxidation resistant MEGACOAT on micro grain carbide substrate Application: Light interrupted to interrupted cutting of stainless steel
<div style="background-color: #FF0000; color: white; padding: 5px; text-align: center; width: 30px; margin: 0 auto;">K</div> Cast Iron	PR905	Bluish Violet	TiAlN	<ul style="list-style-type: none"> Smooth fine surface PVD coated hard carbide with plastic deformation resistance Application: Suitable for milling of gray and nodular cast iron
<div style="background-color: #808080; color: white; padding: 5px; text-align: center; width: 30px; margin: 0 auto;">S</div> Heat-Resistant Alloys	PR1305	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> MEGACOAT on hard and superior heat resistant carbide, superior wear resistance Application: Finishing of heat-resistant alloys
	PR1310	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> MEGACOAT on hard and superior heat resistant carbide, superior wear and oxidation resistance Application: First choice for continuous and light interrupted cutting and finishing of heat-resistant alloys
	PR1325	Blackish Red	MEGACOAT	<ul style="list-style-type: none"> MEGACOAT on tough carbide Application: Light interrupted cutting and roughing of heat-resistant alloys
	PR1535	Blackish Red	MEGACOAT NANO	<ul style="list-style-type: none"> Stabilized turning operations and long tool life with MEGACOAT NANO coating technology Application: PVD for titanium alloy and precipitation hardened stainless steel

Application Maps

Steel Cutting



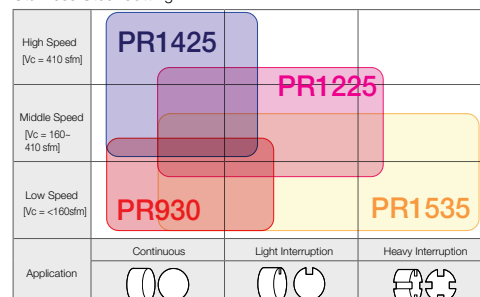
PR1425
1st choice grade

PR1225
High reliability in interrupted cutting

PR1225
Stable cutting at low to middle speed

PR930
Stable cutting at low speed

Stainless Steel Cutting



PR1225
1st choice grade

PR1425
Extended tool life in high speed cutting

PR930
Extended tool life in low speed cutting