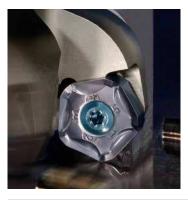
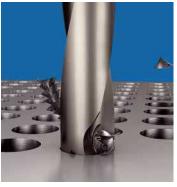
PVD / CVD COATED CARBIDE FOR MILLING & DRILLING





PVD Coated Carbide (MEGACOAT / MEGACOAT NANO)

KYOCERA's PVD coated carbides for milling and drilling 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.

CVD Coated Carbide

CVD coated carbide grades provide stable, efficient machining at high speeds or for heavy interrupted applications.

Ti-base (TiN, TiCN) coating with superior hardness and wear resistance or ceramic-base (Al $_2$ O $_3$) coating with high-thermal stability is applied on a tough carbide substrate. Superior fracture and wear resistance.

FEATURES OF PVD / CVD COATED CARBIDE FOR MILLING & DRILLING				
Material	Description	Color	Main Component (Coating Composition)	Advantages
P	PR830	Gold	TiAIN+TiN	Improved high temperature stability and wear resistance by TiAIN base PVD coating Application: Stable and long tool life for milling of steel
	PR1230	Blackish Red	MEGACOAT	Superior wear and oxidation resistant MEGACOAT on a special tough carbide substrate Application: Stable and high feed rate milling and drilling of steel
	PR1525	Blackish Red	MEGACOAT NANO	New coating technology [MEGACOAT NANO] is applied. Nano thin multi-layer coating performs superior wear resistance and high oxidation resistance. Application: Stable and long tool life milling of Steel and Stainless Steel
Stainless Steel	PR1025	Reddish Gray	TiCN	TiCN base PVD coated on micro-grain carbide Application: Stable and long tool life milling of stainless steel
	PR1225	Blackish Red	MEGACOAT	Superior wear and oxidation-resistant MEGACOAT on micro-grain carbide substrate Application: General and high feed drilling of steel and stainless steel
K Cast Iron	PR1210	Blackish Red	MEGACOAT	Superior wear and oxidation resistant MEGACOAT on special carbide substrate for cast iron Application: Highly efficient stable milling and drilling of gray and nodular cast iron and titanium alloys
	PR1510	Blackish Red	MEGACOAT NANO	New coating technology [MEGACOAT NANO] is applied. Nano thin multi-layer coating performs superior wear resistance and high oxidation resistance. Application: For gray and nodular cast iron, stable wear resistance and toughness
	CA420M	Blackish Red	Micro Columnar TiCN+Al ₂ O ₃ +TiN (CVD)	Kyocera's unique crystal control technology and advanced layer adhesion CVD coating with superior wear resistance and toughness Application: Milling of gray and nodular cast iron
S Heat-Resistant Alloys	PR1535	Blackish Red	MEGACOAT NANO	Stabilized milling operation and long tool life with MEGACOAT NANO coating technology Application: PVD for titanium alloy and precipitation hardened stainless steel
	CA6535	Gold	TiCN+Al ₂ O ₃ +TiN (CVD)	High heat resistance and wear resistance with CVD coating with improved stability due to thin film coating Application: CVD for Ni-base heat resistant alloy and martensitic stainless steel

■ Wear Resistance Properties (PR1525)

