

DLC coated grades

DLC-Coated Inserts for Non-Ferrous Metals

PD1005 ^{new} / PD1010 ^{new}

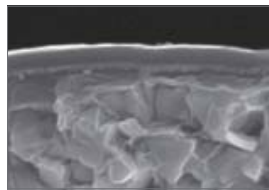
- High hardness and low friction DLC coating technology
- Lubrication and maximized wear resistance increases machinability and machining quality.
- Optimal substrate for each workpiece ensures stable and long tool life
- For non-ferrous metals such as aluminum, Al-Si alloy, copper and etc. machining

Features

Smooth coating surface

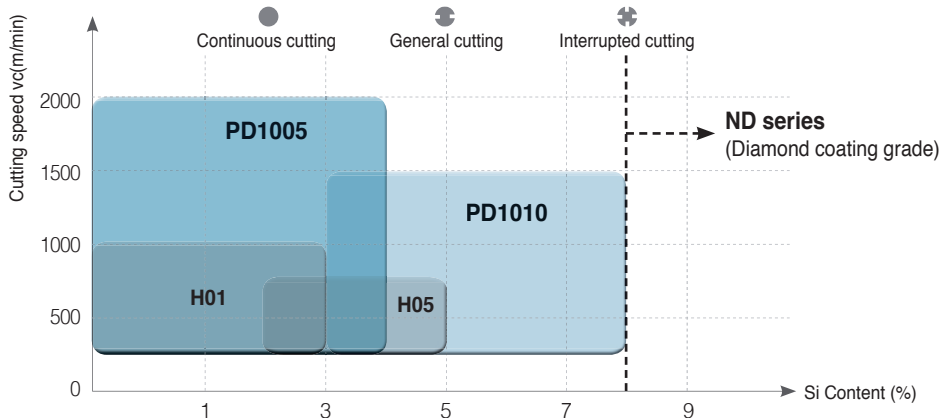


Hard DLC coating



Grade	Wear resistance and Welding resistance	Surface finish	Chip curl
Carbide non coated			
DLC PD1010			

Application range



Selection criteria

Workpiece		Grade	ISO	Application range
N	Non-ferrous metals	Aluminum and copper (Soft non-ferrous metals)	PD1005	N05
		Aluminum alloy	PD1005 PD1010	N10
		Al-Si alloy (Hardened non-ferrous metals)	PD1010	N15

The features of DLC coating grades

Grade	ISO	Features
PD1005	N05	<ul style="list-style-type: none"> • For high speed and continuous machining of Aluminum and copper • High wear and welding resistance realize good machinability • High performance of DLC coating with high hardness and low friction
PD1010	N10	<ul style="list-style-type: none"> • For medium to high and interrupted machining of aluminum alloy and Al-Si alloy • Stable tool life due to substrate with chipping resistance • High performance DLC coating with high hardness and low friction

