○ Good
◑ Better
● Best

*HIGH PERFORMANCE GRADES

Grade	Description	Steel P	Stainless Steel M	Cast Iron K	Ferrite Materials N	Heat-Resistant S	Steel Hardened Metal H
UD51	General purpose TiN (CVD) coated steel grade - used for roughing and semi-finishing of carbon alloy and stainless steel.	●	○	○		◑	
UD52	Tough general purpose steel grade with multi-layer titanium aluminum nitride coating for alloy steel, aluminum alloys, austenitic stainless and carbon steels, copper alloys and exotic alloys.	●	○			●	
HP230*	Productive steel turning grade under stable conditions.	●	○	◑			
HP250*	Universal steel turning grade-The best in efficiency and productivity.	●	○	◑			
UD21	Multi-layer titanium aluminum nitride grade. Excellent for machining cast iron.		◑	●			
HM240*	Stainless steel turning grade. Finishing to light roughing.	○	●		○		
HM250*	Turning grade for wide application in the stainless steel range. Finishing to roughing.	◑	●			○	
HS220*	Excellent for heat resistance and titanium alloys		○			●	
UD2	Uncoated - Used to cut cast iron, aluminum, non-ferrous alloys, non-metals and most high temp alloys. Provides excellent wear resistance.			○	◑		
HN432*	Ideal grade for aluminum. Low tendency for adhesion.			◑	●		
UD22	TiN coated insert. Suitable for semi-finishing and finishing of high temp alloys. Intended for cast iron machining.			●		◑	
UD32	TiAlN coated insert. Used in high speed medium load applications of stainless steel and finishing to semi-finishing of high temperature alloys.	◑	●	○	○	●	
HK036*	Stability in a wide range of applications with long tool life. First choice for turning cast iron.			●			
UD5C	Uncoated cermet grade for semi-finishing and finishing applications at medium to high cutting speeds on carbon and alloyed steels. Also used on stainless. Normally used without coolant.		○	○			
UD5CT	TiALN coated cermet grade performs extremely well for semi-finish and finish applications in alloyed steels, stainless and high carbon steels.	●	◑	◑			
UD1	Uncoated – Designed with a polished surface and large rake angle, Intended for machining aluminum and other non-ferrous alloys. Also works well for semi machining on cast iron.		◑		●		
HP470*	Suitable for demanding steel milling applications, interrupted cut.	●	◑				
HM470*	Stainless steel milling grade. PVD, TiAlN coating.	◑	●				
HS470*	First choice for milling heat-resistant alloys.		○			●	
HS480*	Extremely heat-resistant tough grade for milling titanium.					●	
HK430*	Milling grade for cast iron.			●			
HP600*	Super tough substrate with PVD coating. Excellent for drilling steel and stainless steel.	●	◑	○	○	○	
HK356*	Stable cutting performance for drilling cast iron. Suitable for aluminum. Recommended for mild structural steel, difficult chip controlled steel.	◑	●	●	◑	◑	
HN300*	Drilling Grade for Aluminum				●		
UD2CBN	A Polycrystalline Cubic Boron Nitride (PCBN) Insert for cat iron, gray cast iron, chilled cast, and powder metal with long tool life. Coolant not recommended for use.			●			◑
UD5CBN	A Polycrystalline Cubic Boron Nitride (PCBN) Insert for precision finishing of hardened steels 50-65 rockwell. Coolant not recommended for use.			◑			●
UD2PCD	Polycrystalline Diamond with Carbide Reinforced Diamond, Sharpness and Low Cutting Pressure allowing tight tolerances. Finishing of all non-ferrous metals and non-metallics.				●		
UD25	Uncoated - Used to cut aluminum, brass, copper, nickel base alloys, titanium and non-ferrous materials.			○	○		
UD204	A PVD TiAlN coated fine grain substrate. Excellent for light to medium feeds on cast iron and semi-finishing to finishing of high temperature alloys. Excellent for high SFM.	◑		●		◑	
UD404	A PVD TiAlN coated tough general purpose grade. Well suited for milling alloy steels, stainless steel, high temperature alloy steels and hardened steels up to 60 Rc.	●	●	◑		●	
UD602	A CVD coating of Ti $A1_2O_3$ & TiN on a tough substrate. It is suitable for light to heavy milling of alloy steel and non alloy steel, even under unfavorable condition.	◑	◑			◑	