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		Fundamental Information										Prepared Hole				Performance			Catalog Pages
Name	Shape	Function	Target Process	Feature	Work Material	Tool Material	Coating	Minimum Tool Diameter	Cored Hole	w/o Prehole	Through	Blind Hole	International Tolerance Grade that can be Held Diameter	Circularity	Roughness	Position			
For Aluminum	GKZ			Drill	General Hole Cutting	The GKZ drill is ideal when drilling a solid hole, and the DLC coating will increase the lubricity. The chips will flow more easily utilizing this tooling, as well as, the wear resistance will be improved. You should notice a substantial improvement with tool life due to using this tooling.	ADC·AC	Carbide	DLC	φ4~	○	◎	○	○	IT9	○	○	○	P84
	GKT			Drill	For Cored hole	GKT drills are ideal when drilling a cast hole and you need to maintain position. If there are sections of your operation where your tool will not be required to cut, the three flutes are ideal as they act as guides to hold position as they reach to the next stage to engage and start to cut again.	ADC·AC	Carbide	—	φ6~	◎	△	○	○	IT9	○	○	◎	P85
	G7X			Drill & Reamer	One-Shot Cutting for W/O Prehole	Drill and Ream in one shot. The G7X can maintain a IT7 grade diameter due to the two specially designed reaming edges. The two drill edges and the center gashing allow for the tool to stay in place upon impact.	ADC(AC)	Carbide	—	φ5~	○	◎	○	○	IT7	◎	◎	○	P86
	G7T			Drill & Reamer	One-Shot Cutting for Cored hole	Drill and Ream in one shot. The benefit of the G7T is the three flute design in addition to the specially designed reaming edges. This tool will hold its position and make a more true hole due to the three flutes guiding the tool.	ADC(AC)	Carbide	—	φ5~	◎	△	○	○	IT7	◎	◎	◎	P87
	GP			Drill	One-Shot Cutting for W/O Prehole	The GP tool has the advantage of PCD being brazed into the cutterbody and it can be placed on the tip and/or any chamfers to give a superior life and surface finish. This can drastically reduce your tooling costs and improve quality.	ADC·AC	Carbide + PCD	—	φ5~	○	◎	○	○	IT8	○	◎	○	P88
	GPT			Drill	One-Shot Cutting for Cored hole	The benefit of the GPT is the three flute design in addition to the PCDs. This tool will hold its position, have a superior finish, a long tool life, and you can combine tooling into one tool.	ADC·AC	Carbide + PCD	—	φ6~	◎	△	○	○	IT8	○	◎	◎	P89
	GJT			Drill	One-Shot Cutting for Cored hole	The benefit of the GJT is the addition of three additional guides to the design to aid in the ability to hold roundness. With six effective guides this is a very effective tool at holding position and keeping roundness.	ADC·AC	Carbide + PCD	—	φ6.8~	◎	△	○	○	IT7	◎	◎	◎	P90
	GD			Drill & Reamer	One-Shot Cutting for W/O Prehole	PCD Drill and ream in one shot. The GD drill is has PCD to extend the tool life, improve the surface finish on your workpiece, and allow you to increase the speed that you run the tool at.	ADC·AC	Carbide + PCD	—	φ5~	△	◎	○	○	IT7	◎	◎	○	P91
	Manmaru Z True Circle Reamer			Reamer	Finish Cutting even in Discontinuous hole	The Manmaru Z is a high speed PCD reamer used for ultra-tight tolerances for circularity & roundness. The carbide acts as a guide as it is ground at a very tight tolerance and close to that of the PCD and this makes the tool hold position as it reaches to the next location to engage and cut again.	ADC·AC	Carbide + PCD	DLC	φ5~	△	△	○	△	IT7	◎	◎	△	P92
	TFH			Drill	High Efficiency Cutting	TFH DLC twist drills are made for when you need a high speed and feed solution. This twist drill is good for cast or solid holes and can be run at quick speed and feeds. These tools cut through aluminum quickly and the DLC coating allows chips to flow well.	ADC·AC	Carbide	DLC	φ4~	△	○	○	○	IT9	○	○	○	P93
For Steel & Cast Iron	TFS			Drill	General Hole Cutting	The TFS twist drills can have coating to add tool life. This twist drill is good for cast or solid holes can be run at quick speed and feeds depending on the type of cast iron being machined. Chip evacuation is good with this tooling.	FC·FCD·STEEL	Carbide	TiAlN (AlCrN)	φ4~	△	○	○	○	IT9	○	○	○	P94
	GIX			Drill	General Hole Cutting	The GIX straight flute design has added strength for cutting cast iron when that is needed. Coatings are often used to aid in the use of this tooling.	FC(FCD)	Carbide	AlCrN (TiAlN)	φ4~	△	○	○	○	IT9	○	○	○	P95
	GF			Drill & Reamer	One-Shot Cutting for W/O Prehole	The GF one shot drill and ream for cast iron has four reaming edges and two drill edges to allow for smooth cutting in tough materials. All six edges act as guides to stabilize the tool.	FC(FCD)	Carbide	—	φ6~	△	○	○	○	IT8	○	○	○	P96
	GHI			Reamer	High Efficiency Finish Cutting	The GHI reamers have an offset uneven flute design which is calculated to allow for high speed finishing. The GHI is ideal for very tight toleranced holes that require accuracy of the diameter and tight circularity specifications.	FC·FCD·STEEL	Carbide	TiAlN (AlCrN)	φ6~	△	△	○	○	IT7	◎	◎	△	P97
	1Pass Honing Reamer			Honing & Reamer	High Accuracy Cutting	1 Pass Honing Reamers reduce machining time. This tooling has electroplated diamond stone guides with a carbide blade brazed lead on the tip.	FC	Carbide+Honing Stone	—	φ9~	△	△	○	N/A	IT7	◎	◎	△	P98

(注) 表内表示はテストデータに基づいて作成したものであり、ソーリング環境により変わります。詳しくは弊社担当にお問合せ下さい。コーティングは全アイテム特殊対応可能です。
 Note : Above contents are based on our test data, and the actual performance will vary depending on the tooling environment. Please contact us for details.
 Coating is available for all items as special treatment.

Key : ◎・・・優Excellent ○・・・良Good △・・・可Fair