

Calc. Type	PG1000 REACTION Software	Tool Type and Suggested Calculations Based on Geometry									
		Calculation Name	Drill	End Mill				Form/Step Tool	Reamer	Tap	Insert
				Square End	Ballnose	Chamfer	Bullnose/Corner Radius				
Screen	Angle Relative to X Axis (acute/obtuse)	Chisel Angle Helix Angle Back Taper Chisel Edge Height	Eccentric Relief Angle Secondary Relief Angle Helix Flute Angle Radial Rake Angle Back Taper	Helix Flute Angle Relief Angle Back Taper	Point Angle Helix Angle	Clearance Angle Helix Flute Angle Back Taper	Chisel Angle Helix Angle Radial Rake Angle Back Taper Chamfer Chisel Edge Height	Helix Flute Angle Chamfer Angle Radial Rake Angle Back Taper	Chamfer Angle	Tip Angle	
	Angle Relative to Y Axis (acute/obtuse)	Clearance Angle Chisel Angle	Dish Angle Clearance Angle Radial Rake Angle	Clearance Angle		Dish Angle Clearance Angle Helix Flute Angle	Clearance Angle Chisel Angle Chamfer	Chamfer Angle Radial Rake Angle	Lead Angle	Relief Angle	
	Distance	Web Thickness			Flute Length Any Length		Flute Length Web Thickness	Flute Length			
	Distance Parallel to X Axis	Margin Width					Margin				
	Distance Parallel to Y Axis	Depth of Body Clearance					Depth-Body Clearance				
	Distance Between Parallel Lines at an Angle	Land Width Cutting Edge Height	Gash Width Primary Land Width Secondary Land Width	Gash Width Primary Land Width Secondary Land Width		Gash Width Primary Land Width Secondary Land Width	Land Width	Secondary Land Width			
	Helical Angle and Land Width		Helical Angle & Land Width	Helical Angle & Land Width		Helical Angle & Land Width	Helical Angle & Land Width	Helical Angle & Land Width			
	Included Angle (acute/obtuse)	Point Angle					Point Angle		Thread Angle		
	Distance from X Axis										
	Distance from Y Axis	Height of Point					Height of Point				
	Radius	Core Diameter	Core Diameter Gullet (Radius)		Radius	Corner Radius Core Diameter	Core Diameter Radius			Tip Radii	
	Step Distance Relative to X Axis	Step Length					Step Length	Step Length			
Step Distance Relative to Y Axis	Step Height					Step Height	Step Height				
Scales	Distance	Flute Length Lead Diameter Overall length Margin Width	Shank Diameter Cutting Diameter Length of Cut Length Below Shank Overall Length	Shank Diameter Cutting Diameter Length of Cut Length Below Shank Overall Length	Diameter	Shank Diameter Cutting Diameter Length of Cut Length Below Shank Overall Length	Flute Length Overall Length Cutting Diameter Lead Margin Width	Flute Length Overall Length Major Cutting Diameter Minor Cutting Diameter Cutting Diameter Margin Width Overall Length Flute Length Shank Length Pilot Length Pilot Diameter Guide Length Neck Length Neck Diameter Guide Diameter	Major Diameter Pitch Diameter Minor Diameter Pitch Crest Depth of Threads Thread Length Square Length Shank Length Overall Length Chamfer Length Shank Diameter Point Diameter Land	Overall Depth Overall Length	
	Angle Relative to X Axis (acute/obtuse)	Back Taper					Back Taper	Back Taper			
	Angle Relative to Y Axis (acute/obtuse)		Dish Angle			Dish Angle					
	Included Angle (acute/obtuse)								Tip Angle Shape		
	Radius										
	X Midpoint	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool		
	Y Midpoint	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool	Center of Tool		
	Helical Angle and Land Width										
	Runout	Runout	Runout	Runout		Runout	Runout	Runout			
	Gash Angle		Gash Angle	Gash Angle		Gash Angle					
Edge Detection	w/Concentricity Fixture	Included Angle (acute/obtuse)	Point Angle				Point Angle				
		Angle Relative to X Axis (acute/obtuse)	Helix Angle	Eccentric Relief Angle Secondary Relief Angle Helix Flute Angle	Helix Angle		Clearance Angle Helix Flute Angle	Clearance Angle Helix Angle	Helix Flute Angle Chamfer Angle Primary Relief Angle Secondary Relief Angle		
		Angle Relative to Y Axis (acute/obtuse)									
		Radius				Radius	Corner Radius	Profile Radius			
		Coolant Hole	Coolant Holes								
		Step Distance Relative to X Axis						Step Length	Step Length		
	Step Distance Relative to Y Axis						Step Length	Step Length			
	Ball Nose Diameter/Radius			Ball Nose Radius							
	Ball Nose Diameter/Radius and Taper			Ball Nose Radius & Taper							
	Rotational Diameter		Cutting Diameter	Cutting Diameter		Cutting Diameter	Cutting Diameter	Cutting Diameter			
Rotational Angle Relative to X Axis (acute/obtuse)											
Rotational Angle Relative to Y Axis (acute/obtuse)											
Drill Point Angle (acute/obtuse)	Point Angle					Point Angle					