

	GrafiCalc Standard 2010	GrafiCalc Professional 2010	GrafiCalc Extended 2010
Capabilities Summary			
Parametric Sketcher	Yes	Yes	Yes
Automated Graphical Calculations	Yes	Yes	Yes
Automated Geometry Backsolving	Yes	Yes	Yes
2-way Excel link (Dynamic Data Exchange)	Yes	Yes	Yes
Motion Simulation	No	Yes	Yes
Transient Data Acquisition	No	Yes	Yes
Tolerance Analysis	No	No	Yes
Manufacturability Mediation	No	No	Yes
Features			
User sensitive features			
Automatic unit checking and conversion	Yes	Yes	Yes
Discrete prompts for tools and commands	Yes	Yes	Yes
Double precision floating point accuracy	Yes	Yes	Yes
Mouse controlled Pan and Zoom	Yes	Yes	Yes
Simultaneous display of multiple worksheets	Yes	Yes	Yes
Multiple level user definable Undo/Redo	Yes	Yes	Yes
On-line help and tips	Yes	Yes	Yes
User definable units library	Yes	Yes	Yes
Work with inch, metric, and user definable units	Yes	Yes	Yes
Associative angular dimensions	Yes	Yes	Yes
Associative radial dimensions	Yes	Yes	Yes
Automatic Length, Angle, Radius, calculation	Yes	Yes	Yes
Automatic Graphical Calculations			
Built-In Functions (88) see the end of matrix	Yes	Yes	Yes
Double precision floating point accuracy	Yes	Yes	Yes
Automatic unit checking and conversion	Yes	Yes	Yes
Standard unit library	Yes	Yes	Yes
Customizable Unit Library	Yes	Yes	Yes
Programmable geometry-synchronous calculator	No	Yes	Yes
Automatic Backsolving			
Goal Seek geometry	Yes	Yes	Yes
Import/Export			
2 way Dynamic Data Exchange with Excel (DDE)	Yes	Yes	Yes
2 way DXF built-in CAD translator (R14)	Yes	Yes	Yes
Report Generation			
Print Drawing ANSI A to E, ISO A0 to A5 size	Yes	Yes	Yes
Copy and Paste into Word, Excel, Outlook	Yes	Yes	Yes

Mechanism and Motion Simulation

Value Generator for geometry behavior control	No	Yes	Yes
Trace function for motion path analysis	No	Yes	Yes
Transient data collection for Excel analysis	No	Yes	Yes

Tolerance Analysis

On-demand Statistical Tolerance Analysis	No	No	Yes
Linear, Angular, Radial tolerance analysis	No	No	Yes
Polar tolerance analysis	No	No	Yes
Mouse controlled tolerance allocation wizard	No	No	Yes
Monte Carlo statistical analysis function	No	No	Yes
Multi-datum tolerance analysis	No	No	Yes
Reverse Tolerance Analysis	No	No	Yes
Save tolerance analysis report in Excel format	No	No	Yes

Built-in Functions Listing

Mathematical Functions

Alphanumeric Word	Yes	Yes	Yes
abs()	Yes	Yes	Yes
ANGLE	Yes	Yes	Yes
CEIL(number)	Yes	Yes	Yes
FLOOR(number)	Yes	Yes	Yes
DISTANCE	Yes	Yes	Yes
E()	Yes	Yes	Yes
EXP(number)	Yes	Yes	Yes
I()	Yes	Yes	Yes
LN	Yes	Yes	Yes
LOG(number_or_complex)	Yes	Yes	Yes
MOD(number_a,number_b)	Yes	Yes	Yes
NOUNITS(value)	Yes	Yes	Yes
NROOT	Yes	Yes	Yes
PI	Yes	Yes	Yes
QUADRATIC	Yes	Yes	Yes
RAND() Returns a random number between 0 and 1.	Yes	Yes	Yes
RANDOM(number_a,number_b)	Yes	Yes	Yes
ROUND(number_a,number_b)	Yes	Yes	Yes
SQRT(number_or_complex)	Yes	Yes	Yes

Geometry-associative Calculation Functions

Angle	Yes	Yes	Yes
Area	Yes	Yes	Yes
Centroid	Yes	Yes	Yes
Diameter	Yes	Yes	Yes
Distance of neutral axis to extreme fiber	Yes	Yes	Yes
End or Endpoint	Yes	Yes	Yes
Included Angle	Yes	Yes	Yes
Length	Yes	Yes	Yes

Moments a of Inertia	Yes	Yes	Yes
Origin	Yes	Yes	Yes
Perimeter	Yes	Yes	Yes
Polar Moment of Inertia	Yes	Yes	Yes
Product of Inertia	Yes	Yes	Yes
Radius	Yes	Yes	Yes
Radius of Gyration	Yes	Yes	Yes
Section Modulus	Yes	Yes	Yes
Start Vector	Yes	Yes	Yes
Static Moment of Inertia	Yes	Yes	Yes
Value	Yes	Yes	Yes
Vector	Yes	Yes	Yes
Statistical Functions	Yes	Yes	Yes
MAXIMUM(number_1,number_2,...)	Yes	Yes	Yes
MINIMUM(number_1,number_2,...)	Yes	Yes	Yes
Trigonometric Functions	Yes	Yes	Yes
ACOS(number)	Yes	Yes	Yes
ACOSH(number)	Yes	Yes	Yes
ASIN(number)	Yes	Yes	Yes
ASINH(number)	Yes	Yes	Yes
ATAN2(number_y,number_x)	Yes	Yes	Yes
COS(number)	Yes	Yes	Yes
COSH(number)	Yes	Yes	Yes
SIN(number)	Yes	Yes	Yes
SINH(number)	Yes	Yes	Yes
TAN(number)	Yes	Yes	Yes
TANH(number)	Yes	Yes	Yes
Point and vector Functions	Yes	Yes	Yes
HORIZONTAL()	Yes	Yes	Yes
Point	Yes	Yes	Yes
UNITIZE(point)	Yes	Yes	Yes
Vector Add	Yes	Yes	Yes
VECANG(number)	Yes	Yes	Yes
Vector Dot Product	Yes	Yes	Yes
Vector Subtract	Yes	Yes	Yes
Vector Return	Yes	Yes	Yes
VERTICAL()	Yes	Yes	Yes
point_or_complex.X	Yes	Yes	Yes
point_or_complex.Y	Yes	Yes	Yes
Control Functions	Yes	Yes	Yes
Choose	Yes	Yes	Yes
FALSE	Yes	Yes	Yes
IF	Yes	Yes	Yes
Is Complex	Yes	Yes	Yes
Is Error	Yes	Yes	Yes
Is Geometry	Yes	Yes	Yes
Is Logical	Yes	Yes	Yes
Is Not Available	Yes	Yes	Yes

Is Number	Yes	Yes	Yes
Is Point	Yes	Yes	Yes
TRUE	Yes	Yes	Yes
Binary Operators	Yes	Yes	Yes
A plus B, A minus B	Yes	Yes	Yes
A times B, A dot B, A divide B, A ratio B	Yes	Yes	Yes
A exponent B	Yes	Yes	Yes
A not equal B, A equal B etc.	Yes	Yes	Yes
A or B, A and B	Yes	Yes	Yes
Average	Yes	Yes	Yes
Unary Operations	Yes	Yes	Yes
A	Yes	Yes	Yes
~ A	Yes	Yes	Yes
Postfix Operators	Yes	Yes	Yes
A%	Yes	Yes	Yes
Textual Components	Yes	Yes	Yes
Comment	Yes	Yes	Yes
DDE Reference	Yes	Yes	Yes
Dot Field Operator	Yes	Yes	Yes
{geometry Tag}	Yes	Yes	Yes
Variable	Yes	Yes	Yes