

- **9 Axes with Multiprocess**
- **Linear-Circular-Helical Interpolation**
- **Tangetial Axis for Cut Machines**
- **Gcode Parametric**
- **Preview 3D**
- **AFC - Adaptive Feed Control**
- **Filter N.U.R.B.S. - NOISE – RLS - SMOOTHING**
- **LOOP - IF, Matematical**
- **RETRACE and RESTART from block**
- **PLUG IN**
- **OPEN SOURCE**



ISO NS, allows a complete management of NG Series systems, transforming them in immediate way in powerful numerical controls. Simple and intuitive, it introduces a familiar graphical interface. All the functions are very detailed and comprehensible and can be used both mouse and keyboard, as TOUCH SCREEN systems . Thanks to 3D preview, it's possible to see the working before it's running, anticipating in this way eventual programming errors and outside Axis. High speed in micro-straighths working renders **ISO-NS** particularly apt to work irregular complex profiles generated by CAD/ CAM systems. There is no limitation to the program memory (using the PC RAM) and to the available number of programs (using the PC hard disk). Extended programming with cycles LOOP, IF, mathematical functions, limitless management of variable, jumps to label, working of subprograms stored in hard disk, complex M functions

ISO NS calculates the profile optimal speed, always guaranteeing the better timing to optimize the working cycle, reducing the speed in the critical points.



NG35



NGM EVO



NGQUARK

FRAMEWORK Component and COM-PACT FRAMEWORK (windows CE)
Use with Visual Studio
OPEN SOURCE CODE

ISONS-ISONSCe	
NUMBER INTERPOLATION AXES	9 Axes for 8 simultaneous Process – 4 Axes for 1 process IsoNsCe
INTERPOLATION	Linear, circular,elicoidal, 3D
ROTATIVE AXES	Up to 9 – up to 4 IsoNsCe
POSITIONS RESOLUTION	Min 0.000001 mm
FEED RESOLUTION	Min 0.001 mm/min
M FUNCTIONS	On CN or ON PC
SUBROUTINES	YES
VARIABLES	Type of data DOUBLE - double precision without no limit of variables
MATEMATICAL	Extended with complex functions sqrt, log, sin, cos, asin, acos, tan...
CYCLE IF – ELSE – END IF	Without not limit
LOOP	Without not limit
MAX LEN GCODE	Without not limit
PLC CYCLE	Management I/O base from PC program Extended management from VTB with cycle 1 Ms min
AFC	Adaptive Feed Control – Automatic redution FEED on curves
TOOL OFFSET	Diameter and heigth
WORK ORIGIN	Up To 256
OFFSET ORIGIN	Up To 256
TOOLS FOR HEAD	Up to 256 for single head
TOOLS HEAD	Up to 256
BACK SLASH	On all axes
HANDWHEEL	On all Axes
TANGENTIAL AXIS	YES – SPECIAL INTERPOLATION
GANTRY	On all Axes
3D INTERPOLATION	Yes - With calculation automatic threshold edge
FILTER	N.U.R.B.S. (Non Uniform Rational Bspline) -not available on IsoNsCe NOISE - not available on IsoNsCe RLS (Remove Len Segment) SMOOTHING
GO FROM LINE	YES with graphical support without graphical support on IsoNsCe
RETRACE	YES From JOG not available on IsoNsCe
PREVIEW	3D with outside axis 2D with outside axis IsoNsCe
EDITOR PART PROGRAM	Editor intellisense with help on line Editor standard on IsoNsCe
WORK PLAINE ROTATION	YES
WORK PLAINE	Settable on any pair of axes
CN CONNECTION	RS232/ETHERNET for NG35,NGMEVO – RS232 for NGQ
OPERATING SYSTEM	Windows Xp® – Windows 7® - Windows 8® - Windows CE® with FRAMEWORK or Compact Framework

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