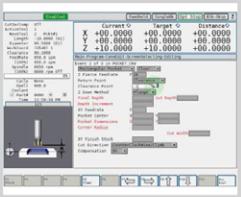
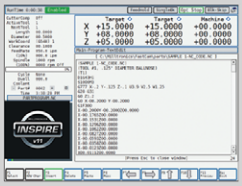
MILLTRONICS INSPIRE v11 CONTROL

Introducing INSPIRE v11 - the ultimate shop floor CNC operating system. This cutting-edge software boasts improved surface finish and cycle times, an advanced proprietary motion engine, and is capable of supporting future machine technologies such as 5-axis and live tooling lathes. With new Industry 4.0 and IoT support, a faster graphics engine, and enhanced customer service capabilities, INSPIRE v11 is the complete package.



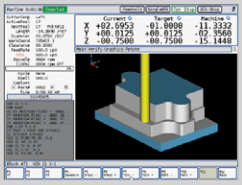
CONVERSATIONAL PROGRAMMING

ChipBoss™ Software
MotionBoss(tm) Software
DXF & IGES File Import
Math Function Input Fields
Custom Conversational Screens
Speed & Feed Calculator
Prompting Help Screens
Concurrent Programming



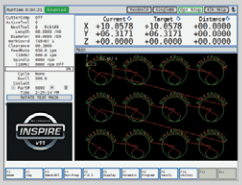
G & M CODE PROGRAMMING

Macro Programming
MDI
EIA / ISO Code (Fanuc™) Compatibility
Macro Variable Programming



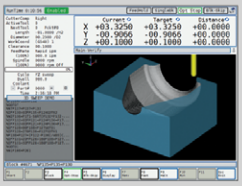
DISPLAY FEATURES

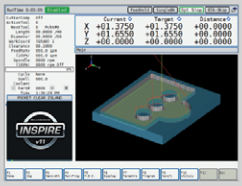
3D Part & Wire Frame Tool Path Graphics
Color Graphics – Tool Path & Part Profile
Solid Model Graphics
Wireframe over Solids
Transparent Graphics
Customizable DRO
User Definable Image Display Window
User Selectable Graphics in all Planes



AUTO ROUTINE & CANNED CYCLES

Bolt Pattern, Drill, Tap & Bore Cycles
Text Engraving on Arc or Line
Thread Milling Cycle
Circular Framing Cycle
Rectangular Framing Cycle
Polygon Framing Cycle
Circular Pocket Cycle
Rectangular Pocket Cycle
Polygon Pocket Cycle
Slot Cycle
Facing Cycle
Engraving with Serializing
Milling Cycles
Drill, Tap & Bore Cycles
Custom Drill Cycle





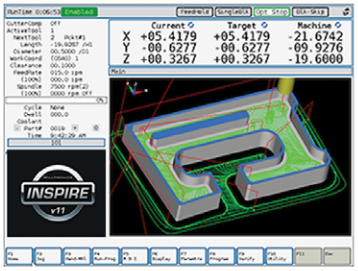
TRIG HELP FEATURES

Arc & Line Intersection Find
Tangent Line & Arc Functions
3 Point Arc Generation
Line Extend Back
Cartesian & Polar Coordinates
Corner Chamfering & Rounding

Contact us 888-999-1440 | 2920 Fortune Cr West, Suite D, Indianapolis 46241
WWW.MILLTRONICS.COM

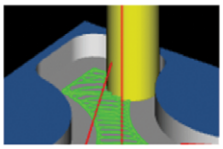
INSPIRE v11 Control

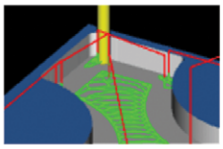
CHIPBOSS™ (Option)



A high efficiency conversational pocketing feature available for all new Milltronics CNC milling machines. Benefits include faster cycle times, improved tool life, and less wear on your machine tool.
ChipBoss™ is a modern cutting strategy allowing for higher metal removal rates by increasing the depth of cut while controlling the allowable cut width, reducing cycle times, extending tool life and reducing wear on your machine tool. It is not uncommon to use a depth of cut equal to 3 times the tool diameter with the spiral fill toolpaths generated by ChipBoss™. This cutting strategy originally available only on high end CAM packages is now available conversationally on profiles, open pockets, and pockets with islands. Combine it with tapered wall and Rest Roughing on your Milltronics DGI control and multiply your machine's productivity.

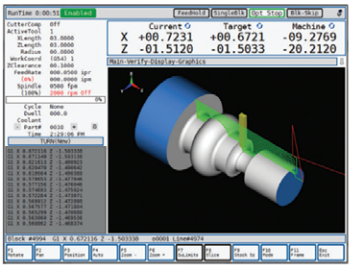
REST ROUGHING





This is a standard conversational feature on all new Milltronics CNC milling machines. With Rest Roughing a large diameter cutter is used to quickly remove material from a pocket or profile and then one or more smaller cutters are used machine away only the material that the large cutter could not reach. Best of all, the control does all the work for you, automatically computing what material the previous cutter left behind.
In the example shown, Rest Roughing improved cycle time by more than 33% using a 0.50" D end mill followed by the 0.25" cutter, over just using the 0.25"cutter alone.

BI-DIRECTIONAL TURNING (Option)



This is a high efficiency conversational turning strategy for use on all new Milltronics CNC lathes. Benefits include faster cycle times & reduced tool changes – Do more with one tool.
Bi-Directional Turning takes advantage of the new tooling technology allowing you to cut both towards and away from the spindle. Not only does it eliminate retract and positioning moves in profiles, but it also allows you to do more with one tool with no need for individual profiling and grooving tools thus eliminating tool changes that cost you time. Bi-Directional cutting is smart turning for your new Milltronics lathe.

NEW

MOTIONBOSS™ (Option)

Patented control technology that allows you to maximizing cutting efficiency by managing the balance between speed and precision. Using a racing car analogy, MotionBoss™ allows you to set the width of the track along with the maximum speed, the Inspire control then determines the optimal path around the track, automatically accelerating between line segments or slowing down for a tight turn, providing you with a faster cutting time, less chatter, less vibration, and less machine jerk.

PC & HARDWARE UPGRADES

With 4 times the memory capacity, 20 times the GPU memory, faster processing capabilities, improved graphics, and heightened reliability, our upgraded systems stand out among the competition. Additionally, the streamlined design with fewer connections provides increased ease for technicians to service the machine if needed.

REMOTE SUPPORT (TeamViewer)

With INSPIRE v11, our latest software offering empowers customers with an array of cutting-edge features, including the integration of TeamViewer. This innovative addition enables users to take advantage of interactive troubleshooting, remote PC access, augmented reality, faster real-time support, and direct access to product experts.

INSPIRE KINEMATIC COMPENSATION SUITE

Inspire consolidates industry leading best practices compensation techniques into the control software ensuring you get the most from the solid, rigid mechanical foundation detailed above. The Kinematic Compensation Suite includes ISO 230-2 multi-pass axial compensation for improved positional accuracy; reversal spike compensation to deal with sightlines on molds; squareness compensation to tweak perpendicularity of axes; and digital field bus communications eliminating drift and analog signal noise.