

# PRESS RELEASE



Milltronics USA, Inc. • 1400 Mill Lane • Waconia, MN 55387

**For IMMEDIATE RELEASE**

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TO: Trade Press

RE: New Milltronics 5x to be Unveiled|  
at EMO

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**New Milltronics 5x to be Unveiled at EMO**

New ChipBoss™ and Bi-Directional Turning Productivity Software Also Featured

Waconia, Minnesota, USA – Milltronics Europe B.V. will unveil its new VM250IL-5x at EMO on September 16-21, 2019 in Hannover, Germany. The new five-axis vertical machining center features a 255 mm diameter trunnion table and axis travels of 550 mm (X) by 508 mm (Y) and 520 mm (Z). The rotary table offers +40/-120 degrees A-axis range and 360 degree C-axis. Equipped with either a 10,000 or 15,000 rpm 18 kW inline spindle, a 40-station swing arm ATC is standard. Utilizing the Milltronics Series 9000 control, the VM250IL-5x is designed for fast and easy 5-sided parts. The company will also demonstrate its new ChipBoss™ milling software along with its new Bi-directional Turning software.

ChipBoss, which will be shown on a VM4020 vertical machining center, allows conversational program users to take advantage of the latest trochoidal machining strategies, previously found only in CAM systems or high-end controls. ChipBoss uses proprietary algorithms to calculate toolpaths and control maximum allowable cutter engagement. The idea is to use the entire length of a tool rather than just the tip, allowing the machinist to cut profiles at full depth rather than taking multiple depth passes. This new optional software works by automatically controlling the tool's chip load, keeping it constant and creating the optimal chip. This results in faster cycle times, better tool life, and more accurate parts. Cycles times (depending on geometry) can be reduced by as much as 50% percent with up to 3-5 times better tool life. ChipBoss also improves part accuracy through reduction in tool deflection.

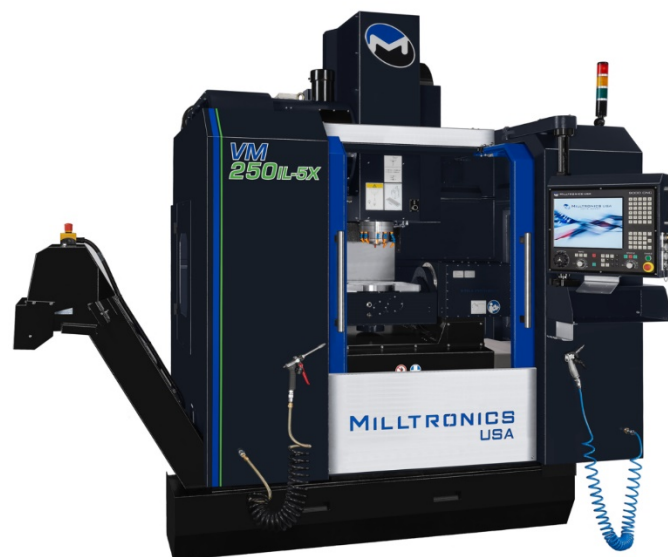
The Bi-Directional turning software, which will be demonstrated on a SL8II CNC lathe, lets conversational program users effectively reduce the time it takes to turn parts by 50 percent as it eliminates the need to cut in one direction, rapid back to the start position, and then take

another pass. The Bi-Directional cycle allows for “zig-zag” (or bi-directional) turning, which results in significantly shorter cycle times.

“Whether it’s the new 5-axis or the new machining software, our focus is to reduce set-ups and cycle times,” said Bill Bender, International Sales Director for Milltronics. “Helping make customers more efficient is what Milltronics is all about.” All the Milltronics machines feature the 9000 Series control. “It’s an easy-to-use, intuitive and graphical control,” he said. “It can be programmed conversationally, with G-code or a CAM system – whatever’s the fastest and most efficient way to make the part.” The 9000 Series is a Windows®-based PC control with an Intel® Dual Core i5-3610ME processor (64 bit) with 4GB memory, 120 GB disk storage, two USB ports, mid-travel tactile keys, and a large 15” LCD touch screen.

The VM4020 is a well-equipped vertical machining center with axis travels of 1016 mm (X), 508 mm (Y) and 508 mm (Z), a 15 kW, 10,000 rpm spindle and a 20-station swing-arm ATC. The SL8II is a 30-degree slant bed CNC lathe, with 203 mm chuck and axis travels of 203 mm (X) and 503 mm (Z). Max turning diameter is 356 mm and max part length is 533 mm. The machine has a 17 kW, 4,000 rpm spindle and a 12-station automatic turret.

“Milltronics has been in Europe a long time,” said Bender. “And this market has always been one of most demanding in the world. Customers expect high-quality, reliable machines with features and software that help them make more money. So, we’re excited to show them what’s new, said Bender”



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*Milltronics Europe B.V. is a Netherlands-based sales and service division of Milltronics USA, Inc. Milltronics USA is based in Waconia, Minnesota, USA, and is a leading supplier of easy-to-use and cost-effective machine tools serving job shops, tool rooms, tool & die and other metalcutting customers worldwide. With more than 14,000 machines installed, the company was founded in 1973 and has built its reputation on intuitive controls and well-built machines backed by superior service and support. More information is available at [www.milltronics.com](http://www.milltronics.com).*

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