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Automate to Accelerate Throughput Times

Increase the efficiency of panel building and switchgear manufacturing up to 85%



Perforex MT 2201 automated milling terminal



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Reducing labor cost and improving delivery times for panel building and switchgear manufacturing is key for any successful integrator or OEM. Performing manual cutouts and drilled holes translate into additional labor time and longer turnaround. Highly trained laborers can create quality cutouts in enclosures, but mistakes can and do happen. The Rittal Automation Systems MT 2201 machine provides repeatable accuracy and reliability as well as can help increase the efficiency of your modification operations and help you gain a competitive advantage.

Accelerate your throughput times in mechanical processing from the smallest enclosures and flat parts to large cabinets. With the new Perforex MT 2201 machining terminal, the drilling, tapping, and milling of enclosures is completely automated in a single cycle. Holes, threads, and cutouts can be created on surfaces of an enclosure, such as mounting plates, doors, sidewalls, and the enclosure housing. You can process all machined materials such as painted steel and stainless steel sheet, as well as aluminum, copper, and plastic. Using the new generation Perforex MT 2201 greatly improves efficiency in the workshop by as much as 85% compared to manual machining.

Perforex MT 2201 machine enhancements

Due to customer feedback, many ergonomic enhancements were made to this latest MT 2201 model to upgrade the operators experience as well as the functionality of the machine, including:

- Design improvements:
 - **Ergonomic pendant arm**
Designed for user-friendly machine operation.
Available as an option.



- **Floor sealing around machine for easy cleaning**

This new feature, coupled with integrated vacuum system on the spindle, reduces the need to sweep or vacuum under the machine - cleaning time is reduced and therefore allows for more machine uptime.



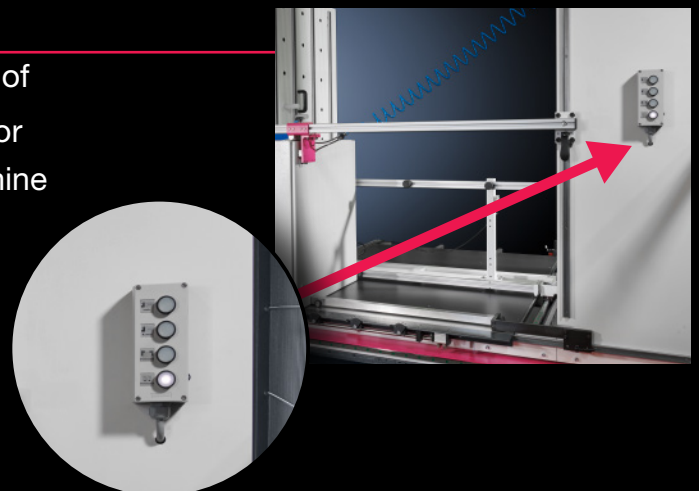
- **Improved safety barrier**

Increased visibility with plexiglass front panels that have increased durability and easier installation.



- **Ergonomic pneumatic clamp actuation**

Increased machine uptime from both sides of the machine for easy operation – no need for operator to walk to the left side of the machine to engage pneumatic clamp.



■ **Additional enhancements include:**

- Improved vacuum hose design – Using one vacuum hose in the machine reduces clogging and machine downtime.
- Added chip-breaking cycle – The machine is programmed to stop and restart the drilling process to break up long chips. This reduces the chance that the hose will get clogged and thereby reduces machine downtime.
- Optical automatic tool and broken bit measurement – Increased productivity is the result of automating the tool length measurement after tool change and the tool check. This increases safety by not putting away a broken tool, and it also saves the operator time from having to input the tool length manually.
- Steel X-axis pinion gear – Provides increased durability, shorter downtime, and increased productivity.
- Larger HMI size – A 24” display allows more information to be displayed.
- User-friendly programming – Simple, user-specific programming (no CAD knowledge required) allows for simple machine set up with orientation of the part on a machine shown. No licenses required or cost for additional seats. Connection to EPLAN, machine interface including ProPanel v2.9, provides access to more parts allowing for easy creation of programs and fast start of production.

Machine options

- Base MT version – Includes MT machine, pedestal mounted HMI, and safety fencing.
- Pendant arm MT version – Includes MT machine, pendant arm mounted HMI (arm can be mounted left or right side), and safety fencing.
- Accessories & consumable options – You’ll have what you need to get up and running right away with many accessories to expand the machining capabilities as well as consumables to keep your machine running at optimal performance.

For additional information, visit www.rittal.com or contact our Rittal Customer Service team at: 800-477-4000 or e-mail rittal@rittal.us



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