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IMTS and JIMTOF 2018 Highlights Edition

Another successful show season is in the books at Pascal ! We were able to welcome guests from around the country and the world to see our newest innovations and products at this year's IMTS and JIMTOF shows. Here are some highlights of the products we demonstrated below !

Expansion Clamp

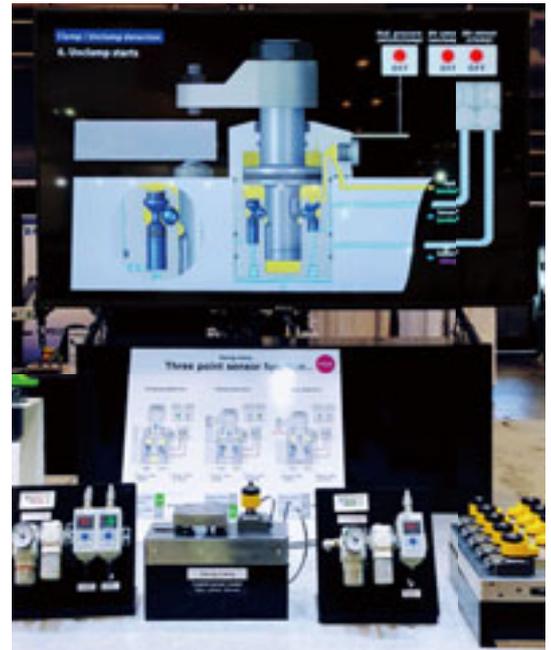
Since our expansion clamp holds the workpiece from one side, the machining accessibility for multiple operations on multiple sides is unparalleled. Now you can bring more operations into the same machine, or a smaller machine, while using standard cutting tools. The expansion clamp is also equipped with an air blow port, seat surface detection, and mis-clamp detection abilities to ensure secure and reliable clamping and machining. Utilized in the engine lines of major automotive manufacturers, our expansion clamps have been rigorously tested and approved to reduce your production time and costs.

Pallet Clamp

Pascal's Pal System is the complete solution for transferring your tombstones, fixtures, and workpieces. If you're looking for a low-cost solution for periodic changeover, our Pal fix locate rings are the perfect fit. The tapered surfaces are locked together with a threaded bolt to provide a seamless, simple yet reliable hold with 3-micron repeatability. For high-volume productions or frequent changeover, you'll find that Pascal's pallet clamps provide the robustness required for such environments. Pascal's Pallet Clamps are equipped with seat check and air blow capability confirming secure clamping. Pascal's locate rings are slotted to reduce wear and extend the longevity of the pallet clamp. Pair our Pallet Clamps or Pal fix system with our Pal Couplers and you will have a full fixture solution. Providing couplers for oil, air, or both, fixtures can be coupled and decoupled to provide seamless changeover and get you machining quickly. Simple, clean and robust, it's no wonder that you'll find Pascal's Pal System equipped at the factories of some of the biggest machine tool manufacturers. With Pascal's Pal System, the applications are endless.

3 point Sensing Clamp

This innovation from Pascal will be the ideal solution to automate machining. This super compact clamp has built-in air sensors that allow you to confirm clamping, unclamping, and mis-clamped positions. Since these sensors are internally located you don't have to worry about contamination from chips or coolant and fixture size and be reduced. Integrating sensing into your machining process will help to prevent tool breakage and defective machining or parts. You can also synchronize part loading and unloading to increase productivity.



Roller Gear Index Table

With the compact size of the roller gear index table, you can increase production efficiency while simultaneously downsizing your machine footprint. Among the many index table manufacturers, what sets Pascal's index table apart is undoubtedly its optimum speed, accuracy and durability. Pascal's index table completes indexing 90 degrees in 0.5 seconds at an accuracy of 5 arc seconds. Compared to index tables with worm gear drives that create backlash that reduces resilience and accuracy over time, Pascal's index table uses a roller gear cam drive and Hirth coupling mechanism that enables quick and smooth rotation. This means indexing you can index larger sized workpieces with peace of mind that accuracy will not be compromised. Utilizing the Pascal Pallet Change System together with Pascal's Index Table will allow you to take full advantage of the work envelope of your compact machining centers while providing the opportunity to change various sized fixtures and workpieces with ease.



[More info](#)

Pascal will continue the momentum and share more innovations in the new year !
Stay tuned for more updates and news !