

Rollomatic highlights capability in grinding core pins for the injection mold industry

Mundelein, April 2020. Rollomatic, a leading machine tool manufacturer based in Switzerland is announcing new capabilities related to the ShapeSmart series of CNC pinch/peel grinding machines.



A core pin is an extended or male portion of the mold which creates the internal surface used in plastic injection molding often in the medical industry. This particular core pin is used for injection molding medical pipettes used in fluid sampling. A core pin is usually made of M2 steel, High-Strength H13, or other tool steel. Core pins need a certain level of toughness, but they also need to withstand a certain amount of misalignment in the molding process without breaking. In addition, the successful use of core pins depends largely on the grinding process and on this essential points:

- Pinch grinding is needed in order to avoid deflection during the grinding cycle
- Near-perfect TIR
- Avoid heat issues during grinding to prevent changing metal characteristics and to avoid warping the pins



Carbide and steel pins, long and thin, ground on the Rollomatic ShapeSmart pinch/peel grinder for these industries:

- Injection molding
- Molding components
- Rotary cutting tool blanks
- Electronics and fiber optics
- Precision punches

5-axis CNC pinch grinding offers highest concentricity particularly on long and thin parts. The rough and finish grinding are performed in one pass. This innovative way to grind roughing and finishing simultaneously eliminates a separate process and reduces cycle time. The machine utilizes two different grinding wheels running on separate spindles and positioned on independently-controlled CNC linear slides.

In-process gaging as well as electronic probing is available. Another option is automatic loading.

Rollomatic provides outstanding service/support from its North American headquarters in Mundelein, IL, and satellite offices in CA, FL, IN, MA. For more information visit: www.RollomaticUSA.com or e-mail solutions@RollomaticUSA.com.



Precision CNC Tool Grinding Machines

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