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AD 5000 DRILLING STATON

From CAD Design Straight to Finished Piece



AD 5000 - Automatic flexible application drill for accurate pattern drilling of square and rectangular profiles on all four sides. Automatic two-axis positioning, feed and profile rotation with full PLC touch screen control.

From CAD design direct to finished piece - no paper or manual data entry. CAD generated hole-pattern file directly input into machine via USB port.

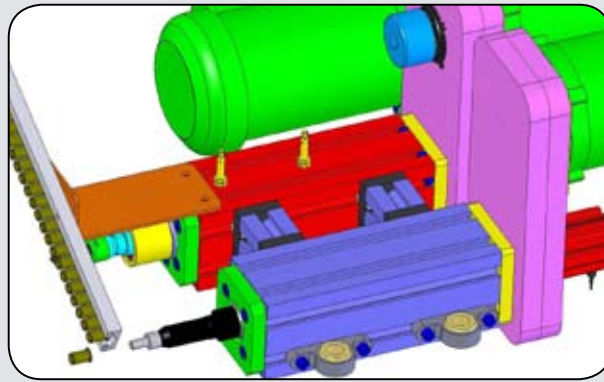
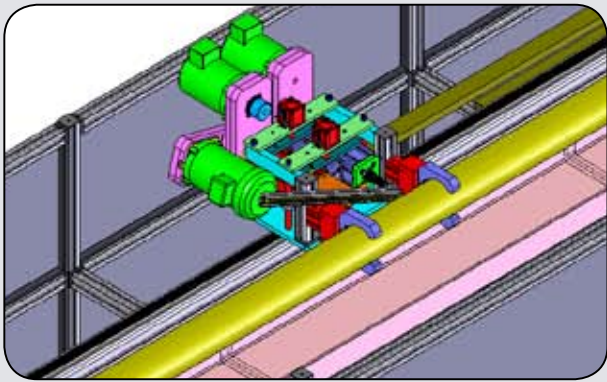
Positioning accuracy ± 0.1 mm with infinite hole pattern combinations. Drilling process optimized (feed and speed) to suit drill diameter for maximum drill life. Multiple hole sizes with step drill bits, or integrated exchanger unit. Optional riveting unit integrated for fully-automatic drill and rivet operation.



Features

- Self-feeding drill unit integrated on automatic horizontal and vertical positioning systems
- HMI touch-screen operation with fully integrated PLC control
- Direct from CAD hole pattern input with job memory for 50+ drill patterns
- Fully automatic operation with infinite hole pattern combinations
- Automatic piece rotation for four-sided tube processing
- Step drill-bit for multiple hole sizes
- Inbuilt swarf tray and spray mist oil lubrication



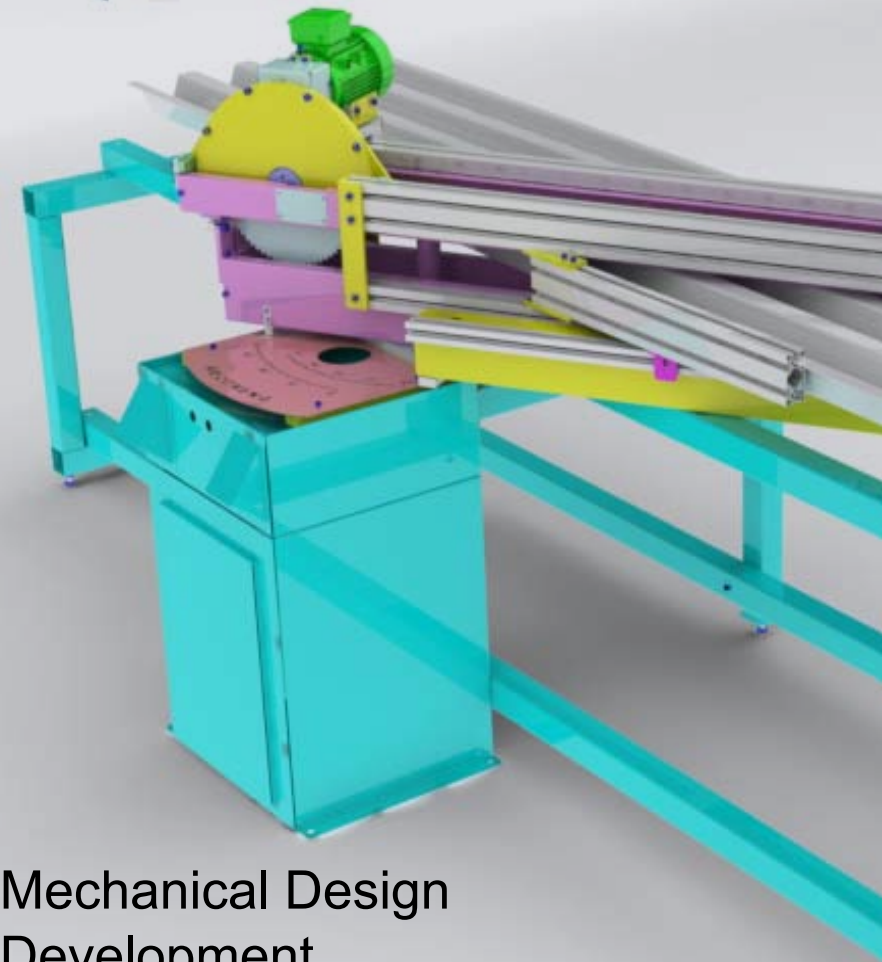
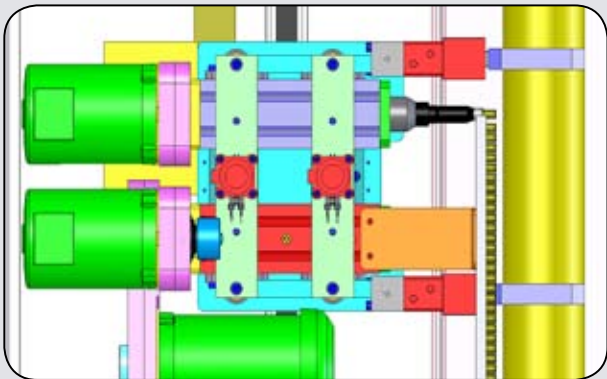


ADR 5500 Automatic Drill and Rivet

ADR 5500 is the next generation development, expanding already capable AD 5000 design to include both drill and rivet operation.

Riveting unit is integrated onto the drill system fed from a high-capacity manually-filled magazine. Drilling and riveting are split into separate processes, with complete hole pattern for a side, first drilled, then rivetted. Piece rotation system allows processing all four profile sides or infinite hole positioning for round tubes.

Automatic linear positioning with ± 0.1 mm accuracy and three level pneumatic vertical positioning. Integrated PLC touch screen control with direct-from-CAD generated hole pattern file directly input into the machine through inbuilt USB port.



Mechanical Design
Development
Implementation
Innovation