



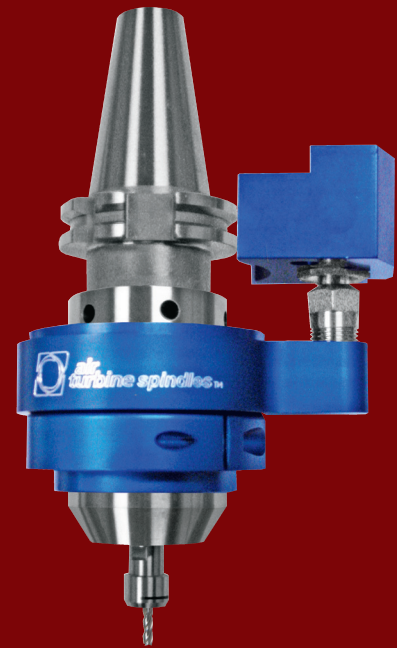
25,000 - 90,000 RPM
Faster Production on your Haas VMC



Why are Air Turbine Spindles™ different?

- Governed constant high speed and torque under load with no gears to burn up. 25,000 - 90,000RPM, up to 1.4HP/1.04KW. TIR: 5 Micron.
- These powerful direct drive spindle mounts maintain high speed and torque under load using a patented governor for faster, cleaner cutting action and minimal thermal expansion due to turbine airflow. Great accuracy and reliability 24/7. Mill 1,500 IPM.
- This unique powerful motor has no gears, no vanes or brushes and low vibration. No lubrication or maintenance. Fewer moving parts means less friction, less heat and less repairs.
- Faster feed rates, finer finish quality, improved accuracy and cutting action. High speed cutting extends cutting tool life and finish quality. ER collets up to 1/4"/6mm capacity.
- Ceramic bearings standard. Cooled by turbine air. Selectable twin airfeed inlets (patent pending), for through shank or side NPT.
- Automatic Toolchanger system: TMA includes toolchanger collar and mounting block. (patent pending)

Autochange for High Speed



Toolchanger assembly and mounting block compatible with Haas, and other VMC's. No need for manual connection (patent pending).

Lathes



Lab Mills



Swiss Automatics



700 Series feature sealed motors with hose exhaust for mounted applications: Ideal for lathes, swiss automatics and robotics. Only two moving parts: governed turbine and ceramic bearings. 5 micron accuracy. Faster production - milling, drilling, finishing.



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