

# The Air Turbine Differences

## Direct Drive Motor:

- Low friction and heat.
- No gears, high frequency brushes, or vanes to heat up or burn out.
- Long Service Life.

## Reliable:

- Only two moving parts (Turbine and Bearings).
- Air cooled ceramic bearings.
- No Duty Cycle.

## Low Vibration, Quiet:

- $< 0.4 \text{ mm/s}^2 < 67 \text{ dBA}$ .

## Customize Your Spindle:

- Available in all popular tool holder designs.
- Retrofit any CNC.

## Flexibility:

- Center rear air feed, patented stop block + collar (TMA), or manual side connection.

## Powerful Constant High Speed and Power:

- Patented governed turbine maintains constant high speed under load.
- Accelerate cycle times and optimize cutting tool performance and life.
- Eliminate secondary finishing.

## High Precision:

- 2 Micron Ultra Precision ER 8 or ER 11 Collet Standard.
- No thermal expansion.



# The Air Turbine Differences



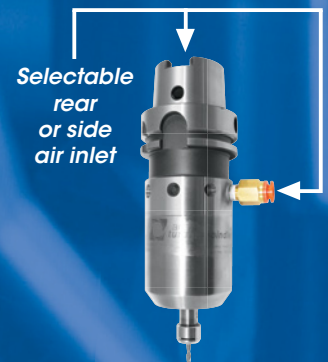
*Patented Technology: Governed 25,000 - 90,000 rpm • Power to 1.40 hp (1.04 kW) • No Duty Cycle • No Thermal Expansion*

## AUTOLOADING OPTIONS

Fully automate your spindle change with our Tool Changer Mounting Assembly (TMA)  
Or connect rear air inlet to compressed airfeed in your CNC spindle.

Auto loading reduces setup time and increases productivity.

Dry, clean 90 psi / 6.2 bar air only. Filter Extractor included as standard equipment.



**CENTER AIR FEED**

**(TMA) TOOLCHANGER MOUNTING ASSEMBLY**



**Automatically  
Tool Change  
on Demand!**