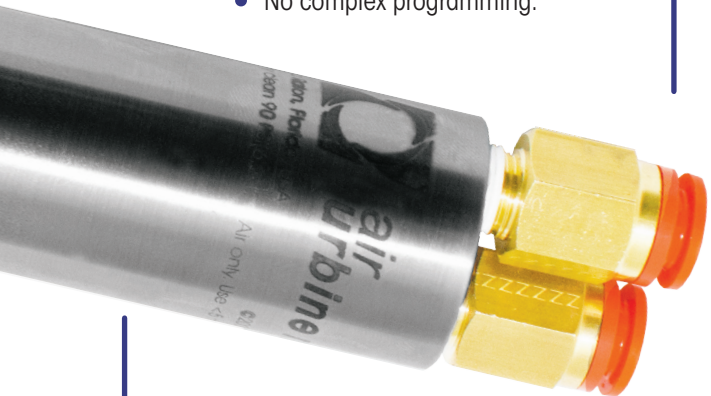


Direct Drive Motor:

- Reliable with only 2 moving parts.
- No gears, no high frequency brushes, and no vanes to heat up or burn out.
- Long service life.

Simple Setup:

- Just connect dry, clean 90 psi/6.2 bar compressed air.
- No control system and no wiring.
- No complex programming.



High Precision:

- No heat and low vibration improves precision.
- 2 Micron precision collets and h7 tolerance.
- Make off-center cuts with high speed and precision. Perfect for medical, aviation, electronics and metalworking industries.

Why are Air Turbine Live Tools® different?



Governed speed does not drop and maintains high speed on toolpath.



Low vibration. Quiet - under 67 dBA.



Great reliability. No heat. No control system.



No control box. No duty cycle. No wiring.



Direct drive reliability. Only 2 moving parts. No maintenance.



Governor control for constant high torque. Maintains high speed + power under load.



Faster production. Longer tool life.



No oil or lubrication. Just supply 90 psi/6.2 bar air. Environmentally friendly.



Improved surface quality. Improved accuracy.

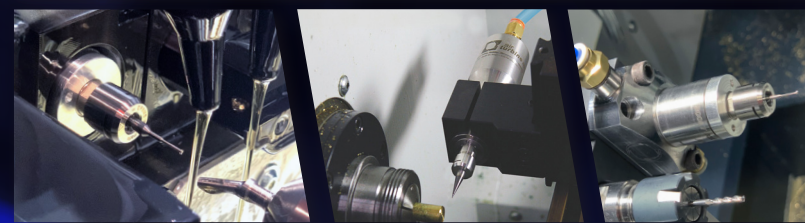
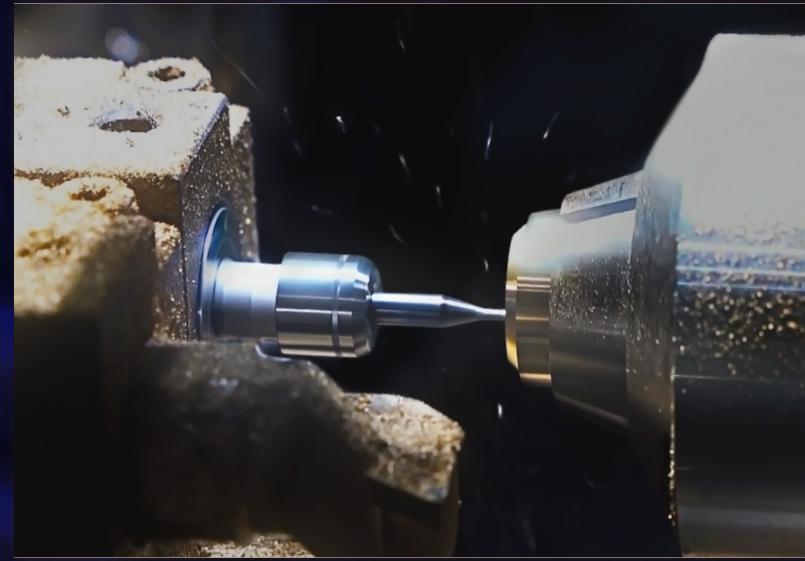


End maintenance and frequent repairs.

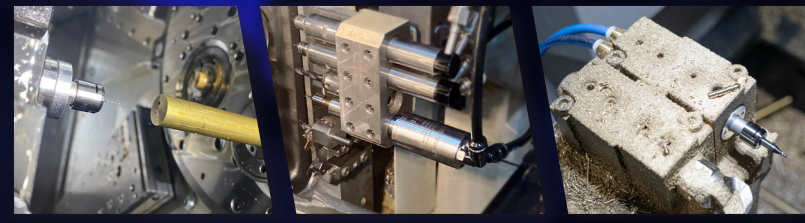


Constant governed high speed in 24/7 automated operations.

Revolutionary Air Turbine Live Tools® Constant Governed High Speed in 24/7 Operations



**30+ YEARS OF PROVEN PATENTED INNOVATION.
AIR TURBINE TOOLS® ARE BUILT TO LAST.**



Constant High Speed and Power:

- Patented governed turbine increases airflow to maintain constant high speed in cut.
- Accelerate production rates.
- Optimize cutting tool performance and life.
- Improve finish quality.



Adaptable for your Application:

- Completely sealed for wet environments.
- Multiple outside diameters available to fit into your existing swiss automatic.

Reliable:

- Only two moving parts (turbine and bearings).
- No maintenance or lubrication.
- No duty cycle in 24/7 operation.



Direct Drive Reliability, Reduce Cycle Times



Accelerate feed rates at 40,000 to 80,000 RPM

www.airturbinetools.com

All rights reserved. Patents issued and pending. © 2026 Air Turbine Technology, Inc.
All specifications approximate.

www.airturbinetools.com

+1 561-994-0500

Operate With Governed High Speed and No Duty Cycle

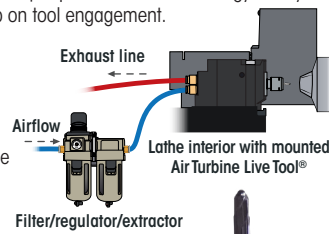
Air Turbine Live Tools® run at high fixed speeds and can operate on any lathe without changing your RPM. Simply change your feed rate to get your desired chip load and get the proper surface footage for micro tooling. Maintain constant high speed in cut with the SFM required to optimize your micro tools. At 80,000 RPM Air Turbine Live Tools® increase feed rates 6 – 10x. Speed up your off-center cuts and exponentially increase production from your lathes. You can machine titanium and steel – our patented governor increases air flow on demand keeping you at high speed on the toolpath.

No Heat, No Thermal Effects on Accuracy

Achieve finer finished surfaces with no feed lines with 2 µm precision. Our technology is very different from nominal high speed spindles that drop on tool engagement.

Easy Installation

We eliminate the control box, wiring, high frequency brushes and programming complexity. There's no oil lubrication either. Quicker and simpler installation than traditional live tool spindles. Just drop Air Turbine Live Tools® into any boring bar holder and connect 90 psi/6.2 bar dry compressed air.



822CX and 825CX

Miniature Live Tool Series
ER8 UP - 1/8" (3 mm) collet capacity
60,000 RPM - 80,000 RPM, 0.15 HP



Economic production depends on the speed and reliability of the motor drive but outdated motor technology has restricted productivity and resulting in high costs. Now, medical, aviation and metalworking industries increase productivity by dropping the 822CX or 825CX into automatic lathes. These sliding headstock lathes operate at 60,000 or 80,000 RPM 7 days a week under enormous cost and time pressure.

General Specifications		822CX and 825CX	
Speed		60,000 RPM	80,000 RPM
Power Rating		0.15 HP (0.11 kW)	
Inlet Air Pressure		90 psi (6.2 bar)	
Air Consumption Idle		3.5 CFM (1.65 L/s)	
Air Consumption Working Flow		5 CFM (2.36 L/s)	
Sound Level		Less Than 78 dBA	
Max Shank Capacity		ER8 UP - 1/8" (3 mm)	
Live Tool Weight		5.6 oz (0.158 kg)	
Mountable Area	822CX	Ø 0.86" (22 mm) outside diameter by 2.89" (73.53 mm)	
	825CX	Ø 0.98" (25 mm) outside diameter by 2.89" (73.53 mm)	

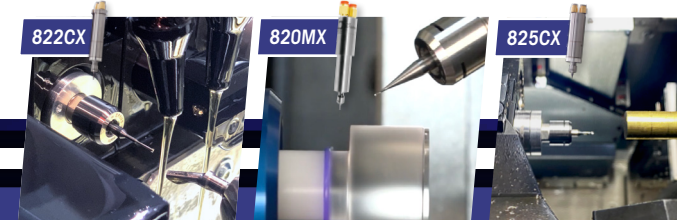
800LT

Miniature Live Tool Series
ER8 UP - 1/8" (3 mm) collet capacity
60,000 RPM - 80,000 RPM, 0.1 HP



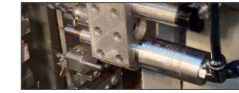
Accelerate your feed rate with 24/7 operation at 60,000 or 80,000 RPM with the 800LT. This compact patented spindle has a governor which maintains rated speed in the cut. Air Turbine Live Tools® are low friction direct drives with only 2 moving parts resulting in no heat and great reliability at high speed. Just connect 90 psi, 6.2 bar air supply and mill on your swiss automatic.

General Specifications		800LT	
Speed		60,000 RPM	80,000 RPM
Power Rating		0.1 HP (0.07 kW)	
Inlet Air Pressure		90 psi (6.2 bar)	
Air Consumption Idle		3.5 CFM (1.65 L/s)	
Air Consumption Working Flow		5 CFM (2.36 L/s)	
Sound Level		Less Than 78 dBA	
Max Shank Capacity		ER8 UP - 1/8" (3 mm)	
Live Tool Weight		5.6 oz (0.158 kg)	
Mountable Area		Select outside diameter of Ø 0.75" (19.05 mm), Ø 0.79" (20 mm), Ø 0.87" (22 mm) or Ø 0.98" (25 mm) by 2.39" (73.53 mm).	



820MX and 822MX

Integrated MX Series
ER8 UP - 1/8" (3 mm) collet capacity
50,000 RPM - 65,000 RPM, 0.2 HP



At governed 65,000 RPM the 820MX and 822MX keeps high speed under load. This compact low vibration motor operates 24/7 with no heat and has just 2 moving parts and no gears, vanes, or high-frequency brushes to burn up. Accelerate your production with these live spindles. Ideal for lathes, swiss automatics, and finishing with micro tools. No control system, completely sealed with hose exhausts.

General Specifications		820MX and 822MX	
Speed		50,000 RPM	65,000 RPM
Power Rating		0.2 HP (0.15 kW)	
Inlet Air Pressure		90 psi (6.2 bar)	
Air Consumption Idle		4 CFM (1.89 L/s)	
Air Consumption Working Flow		6 CFM - 9 CFM (2.83 L/s - 4.24 L/s)	
Sound Level		Less Than 78 dBA	
Max Shank Capacity		ER8 UP - 1/8" (3 mm)	
Live Tool Weight		13 oz (0.37 kg)	
Mountable Area	820MX	Ø 0.79" (20.0 mm) outside diameter by 1.99" (50.55 mm)	
	822MX	Ø 0.86" (22.0 mm) outside diameter by 1.99" (50.55 mm)	

825MX

Integrated MX Series
ER11 UP - 1/4" (6 mm) collet capacity
50,000 RPM - 65,000 RPM, 0.2 HP



Despite its 25 mm outside diameter, the 825MX has up to 0.4 HP to maintain your cutting tool's high rotational speed at 40,000 or 50,000 RPM, drastically increasing your production rates. The patented direct drive in the 825MX does not get hot or vibrate. Turbine air cools the sealed grease-packed bearings. The result is great durability in 24/7 operation with no maintenance and no control system or wiring.

General Specifications		825MX	
Speed		40,000 RPM	50,000 RPM
Power Rating		0.3 HP (0.22 kW)	0.4 HP (0.3 kW)
Inlet Air Pressure		90 psi (6.2 bar)	
Air Consumption Idle		5 CFM (2.36 L/s)	6 CFM (2.83 L/s)
Air Consumption Working Flow		7 CFM - 10 CFM (3.3 L/s - 4.72 L/s)	
Sound Level		Less Than 78 dBA	
Max Shank Capacity		ER11 UP - 1/4" (6 mm)	
Live Tool Weight		22 oz (0.62 kg)	
Mountable Area		Ø 25 mm outside diameter by 12.7 mm	

