

Why are Air Turbine Motors® different?

Revolutionary High Speed Motors Constant Governed High Speed in 24/7 Operations

Multiple Options:

- 40 motors available.
- 202HD series rubber drilling.
- 210HD series robotics.
- 450 Series routing, drilling, deburring heavy duty < 1.4 HP (1.03 kW)
- 700 Series automation lathes, completely sealed.



Simple Setup:

- Just connect dry, clean 90 psi (6.2 bar) compressed air.

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.
- No control system and no wiring are required.



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



Low vibration.
Quiet - under 67 dBA.



Great reliability.
No heat.
No control system.



Operate 24/7.
No duty cycle.
High productivity.



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.



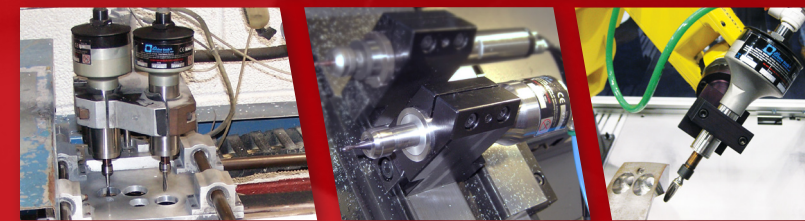
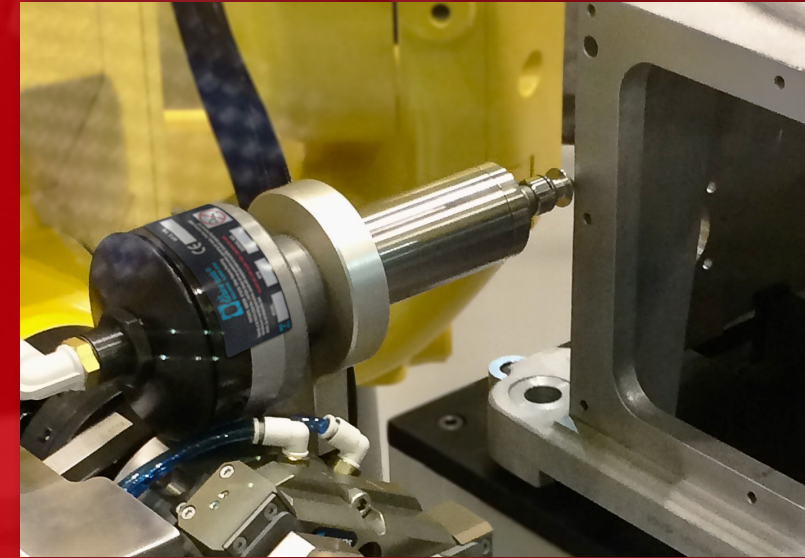
Improved surface quality.
Improved accuracy.



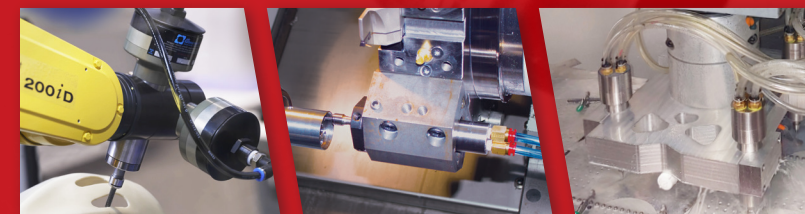
Accelerate CNC cycle times 6-10x.



Exponentially increase production from your lathes.



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



Constant High Speed and Power:

- Patented governed turbine maintains constant high speed under load.
- Accelerate production rates.
- Optimize cutting tool performance and life.
- Improve finish quality.



High Precision:

- Low vibration and no heat improve precision.
- Precision ER8/ER11 collets and h7 tolerance.

Reliable:

- Only two moving parts (turbine and bearings).
- Air cooled grease packed bearings.
- No maintenance or lubrication.
- No heat, no duty cycle in 24/7 operation.



Direct Drive Reliability, Reduce Cycle Times



Accelerate Feed Rates at 25,000 to 65,000 RPM

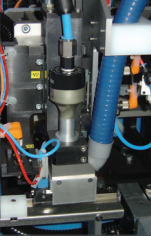
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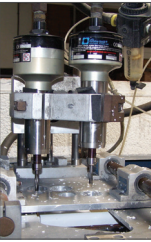
202HD
Heavy-Duty Motor Mount Series
 ER8 - 1/8" (3 mm) collet capacity
 30,000 RPM - 65,000 RPM, 0.55 HP



The 202HD has a long stainless-steel barrel and is a compact powerful motor for rigid fixture mounting, with governed constant speed ranges of 30,000, 40,000, 50,000, and 65,000 RPM. Ideal in applications such as plastic or rubber drilling, milling with fast production times and robotic metal finishing. Oil-free operation eliminates part contamination.

General Specifications	202HD			
Speed	30,000 RPM	40,000 RPM	50,000 RPM	65,000 RPM
Power Rating	0.4 HP (0.3 kW)	0.45 HP (0.34 kW)	0.5 HP (0.37 kW)	0.55 HP (0.41 kW)
Inlet Air Pressure	90 psi (6.2 bar)			
Air Consumption Idle	10 CFM (4.72 L/s)	13 CFM (6.14 L/s)	14 CFM (6.61 L/s)	
Air Consumption Working Flow	11 CFM - 20 CFM (5.19 L/s - 9.44 L/s)			
Sound Level	Less Than 78 dBA			
Max Shank Capacity	ER8 - 1/8" (3 mm)			
Motor Weight	9 oz (0.26 kg)			


450XHD
Heavy-Duty Motor Mount Series
 ER11 - 1/4" (6 mm) collet capacity
 25,000 RPM - 40,000 RPM, 1.4 HP



The powerful 450XHD's ceramic bearings assure durability in 24-hour operations. The rigid steel barrel is easily fixtured for automation or combined with an end effector. This double turbine motor has extra power, operating up to 1.4 HP (1.03 kW). Ideal for routing composites, plastics or wood and deburring, finishing or drilling metal at constant high speed.

General Specifications	450XHD		
Speed	25,000 RPM	30,000 RPM	40,000 RPM
Power Rating	1.2 HP (0.9 kW)	1.3 HP (0.98 kW)	1.4 HP (1.03 kW)
Inlet Air Pressure	90 psi (6.2 bar)		
Air Consumption Idle	14 CFM (6.61 L/s)	20 CFM (9.44 L/s)	23 CFM (10.85 L/s)
Air Consumption Working Flow	19 CFM - 40 CFM (8.97 L/s - 18.89 L/s)		
Sound Level	Less Than 78 dBA		
Max Shank Capacity	ER11 - 1/4" (6 mm)		
Motor Weight	48 oz (1.36 kg)		

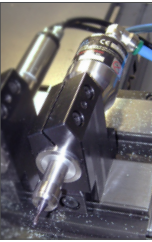
722MX
Sealed Steel Automation Series
 ER8 UP - 1/8" (3 mm) collet capacity
 50,000 RPM - 65,000 RPM, 0.2 HP



Mount the 722MX to accelerate your production, cut your repair costs and downtime. Ideal for lathes, swiss automatics, robotics, and finishing. Keep the high speeds of 65,000 RPM under load with the patented double turbine. This is a low vibration motor with no gears, vanes, or high-frequency brushes to burn up. Available with a Ø 20 mm outside diameter with the 720MX.

General Specifications	722MX	
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)	
Motor Weight	14 oz (0.4 kg)	

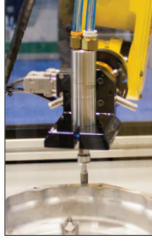
725MX
Sealed Steel Automation Series
 ER11 UP - 1/4" (6 mm) collet capacity
 40,000 RPM - 50,000 RPM, 0.4 HP



The 725MX has up to 0.4 HP to maintain your cutting tool's high rotational speed at 40,000 or 50,000 RPM. The higher production rates you achieve will surprise you. Air Turbine Motors® patented double direct drive in the 725MX does not get hot or vibrate. The air cools the sealed grease-packed bearings. Completely sealed with hose exhausts.

General Specifications	725MX	
Speed	50,000 RPM	65,000 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)	
Motor Weight	22 oz (0.62 kg)	


730MX
Sealed Steel Automation Series
 ER8 UP - 1/8" (3 mm) collet capacity
 50,000 RPM - 65,000 RPM, 0.2 HP



The 730MX is ideal for lab mills, lathes, swiss automation, and all fixture or robotic applications in wet operating conditions. Reach deep and accelerate production while obtaining a finer finished surface with this reliable direct drive, oil free motor. Completely sealed with hose exhausts. Available with a Ø 32 mm outside diameter with the 732MX.

General Specifications	730MX	
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)	
Motor Weight	16 oz (0.45 kg)	










740XP
Sealed Steel Automation Series
 ER11 UP - 1/4" (6 mm) collet capacity
 30,000 RPM - 50,000 RPM, 0.76 HP



Suitable for heavier applications, the patented double turbine 740XP generates 0.76 HP and 50,000 RPM. Versatile – for finishing, milling, and drilling. Accelerate your production and cut your repair costs and downtime. Eliminate control systems and maintenance. Ideal for lathes, swiss automatics, robotics, and finishing. Sealed with hose exhausts for wet environments.

General Specifications	740XP		
Speed	30,000 RPM	40,000 RPM	50,000 RPM
Power Rating	0.72 HP (0.54 kW)	0.74 HP (0.55 kW)	0.76 HP (0.57 kW)
Inlet Air Pressure	90 psi (6.2 bar)		
Air Consumption Idle	16 CFM (7.55 L/s)	20 CFM (9.44 L/s)	
Air Consumption Working Flow	17 CFM - 45 CFM (8.02 L/s - 21.2 L/s)		
Sound Level	Less Than 78 dBA		
Max Shank Capacity	ER11 UP - 1/4" (6 mm)		
Motor Weight	58 oz (1.64 kg)		

Basic Statistics for Machining Applications

Motor Mount Specifications				
Model	Mountable Area	Weight	Power	
Sealed Steel Automation Series				
 720MX	Ø 20 mm outside diameter by 84 mm	13 oz (0.37 kg)	0.2 HP	0.15 kW
 722MX	Ø 22 mm outside diameter by 84 mm	14 oz (0.4 kg)	0.2 HP	0.15 kW
 725MX	Ø 25 mm outside diameter by 39 mm	22 oz (0.62 kg)	0.4 HP	0.3 kW
 730MX	Ø 30 mm outside diameter by 95 mm	16 oz (0.45 kg)	0.4 HP	0.3 kW
 732MX	Ø 32 mm outside diameter by 95 mm	18 oz (0.51 kg)	0.4 HP	0.3 kW
 740MX	Ø 40 mm outside diameter by 133 mm	34 oz (0.96 kg)	0.4 HP	0.3 kW
 740XP	Ø 40 mm outside diameter by 82 mm	58 oz (1.64 kg)	0.76 HP	0.57 kW
Heavy-Duty Motor Mount Series				
 202HD	Ø 18.84 mm outside diameter by 50.8 mm	9 oz (0.26 kg)	0.55 HP	0.41 kW
 210HD	Ø 25 mm outside diameter by 35.46 mm	22 oz (0.62 kg)	0.88 HP	0.66 kW
 450HD	Ø 41.15 mm outside diameter by 63.5 mm	46 oz (1.30 kg)	0.88 HP	0.66 kW
 450HDE	Ø 41.15 mm outside diameter by 63.5 mm	48 oz (1.36 kg)	0.88 HP	0.66 kW
 450XHD	Ø 41.15 mm outside diameter by 63.5 mm	48 oz (1.36 kg)	1.4 HP	1.03 kW
 460HD	Ø 41.15 mm outside diameter by 63.5 mm	46 oz (1.3 kg)	0.94 HP	0.7 kW

