



High speed air turbine tools

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Air Turbine Tools(R) revolutionary constant high-speed redefines performance standards for today's high-speed Tools, Motors, and Spindles. From CNC, robotic, and other mounted applications, to hand finishing operations, the unique technology employed in the design and manufacture of these products delivers a cleaner cutting action, faster production rate, and eliminates problems associated with traditional tools.

Air Turbine Spindles(R) maintain high speed and torque under load using a patented turbine governor. At governed 25,000 – 90,000 RPM to 1.40 hp (1.04 kW), these powerful spindles have only 2 moving parts - patented turbines and ceramic bearings cooled by airflow. We retrofit any CNC machine to mill at constant high speed 24/7 – so any CNC can be a high-speed machine.

Air Turbine Tools(R) solve problems in hand operations. Lightweight at just 6 oz (0.17 kg) with low vibration reduces injury risk to your hand and arm. Power to 1.40 hp (1.04 kW) maintains the high-speed rotation for optimized cutting action with no maintenance required.

Governed 65,000 RPM and power to 1.40 HP – Air Turbine Motors(R) are ready for Lathes, Swiss Automatic, Robotics, and Fixtured Applications. Mounting Diameters from 20mm to 40mm with h7 Tolerance. Perfect for milling, finishing, drilling at constant high speed and precision.

With over 100 Spindles, Motors, and Hand Tools available, let Air Turbine make it easier for you to choose the right tool for your application. Fill out the Applications Questionnaire and a member of our team will get back to you within 24 hours with the perfect tool for your application.

Support is always available from our technical team in the USA and Germany. Repair Service is available in Florida and Munich. Call our factory technicians at +1-561-994-0500 or email us at .

Treeline offers only the finest wood carving tools and supplies. Everything from Treeline is backed by our 30-day guarantee against any defects. We have been providing wood carving tools since 1997 and we strive to excel in customer service and quality products. All employees at Treeline are very knowledgeable and professional, so if you are looking for the right woodcarving tools, contact us and we will do our best to help you.

The Treeline catalog features 64 color pages of the finest woodcraft tools, equipment and accessories available anywhere back by our 100% satisfaction guarantee.

The 650CAT40 delivers governed constant high speeds under load – 25,000 to 40,000 rpm, < 0.88 hp (0.66 kW). Robust and reliable, with double front ceramic bearings, the 650 Series is ideal for heavier duty applications and milling hard materials in corners. The governor-controlled turbine maintains rated high

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speed, optimizing tool performance and life. Effective in all materials, including tool steel, titanium, and ceramic. Ultra-low vibration and no heat in 24/7 operation. Selectable rear or side air feed on each spindle. Automatic Loading from the magazine on all machines.

We retrofit any CNC machine to mill at a constant high speed 24/7 - so any CNC can be a high-speed machine. This includes, but isn't limited to DMG MORI, Haas, Fanuc Robodrive, Doosan, Hermle, Hurco, GROB, Brother Okuma, Makino and Mazak. Easy installation using selectable air feed inlets - choose side inlet NPT / Stop Block or center through shank/tool holder air feed. HSK, CAT, BT, and DIN Toolholder options are available. Learn more about Air Turbine Spindles on your CNC Machine by visiting their page at the links below.

ER 11 UP Collet System (1/4" or 6mm collet). 3/4" or 20mm shank standard (Metric Shank comes with metric collet, Inch Shank with inch collet). Oil-free 90 psi / 6.2 bar, clean, dry air supply required.

Automatically load Air Turbine Spindles(R) in CNC machines with our patented wrap-around Toolchanger Mounting Assembly (TMA). This option allows CNC tool-changers to automatically load/unload our family of high-speed precision spindles using a proprietary collar system and mounting block or ring around the CNC spindle integrated to the right side of the CNC spindle in minutes.

Contact us for free full report

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