

## Usernotes - General

**DO NOT OIL OR LUBRICATE**  
DRY, CLEAN, OIL FREE 90PSI / 6.2 BAR AIR SUPPLY ONLY  
Accessory filter / extractor range available on page 18.

### IMPORTANT NOTE:

Do not restrict airflow by using small couplings, hoses, pipes or fittings on air supply smaller than minimum size: **1/4" / 6mm Internal Diameter**. For larger diameter Air Turbine units (525X, 210,230, 430, 625X,705X,650) couplings, hoses, pipes or fittings on air supply the minimum is size: **3/8" / 7.5 mm Internal Diameter**. The required flow rate is in your catalog and on [www.airturbinetools.com](http://www.airturbinetools.com), and pressure must be **90 PSI / 6.2 Bar**. Air pressure varies with load for maximum efficiency while maintaining high speed under load. Use a Reservoir Tank to avoid fall in air flow or pressure at peak load, if required.

"Speed does the cutting". It is counterproductive to slow down your motor to stall point. Fast frequent pass at high peripheral speed cutting action, finish quality and extends cutting tool life.

### General Notes:

Air Turbine Tools® are governed turbine motors using variable air consumption to maintain high speed and torque under load. Therefore, your tool or spindle will run at less than stall flow unless at full load. Optimal cutting action occurs with a light pass with the motor operating at constant high speed up and speed will stay in a range close to rated speed up to 80% of rated maximum rated power. It is essential the air supply not be constricted by hoses, pipes, fittings or couplings less than **1/4" in diameter or 3/8"/7.5mm** on larger units. Avoid obstructions to airflow causing loss of power. Use only a concentric speed rated cutting tool matching the capacity of your collet and do not allow the cutting to protrude excessively from the collet.

Hand Tool Slide valves must be fully opened or closed. Red indicates 'Off' position and green 'On' position.

Insert speed rated cutting tool in accordance with instructions when control is in 'off' position and tighten fully with wrenches provided. Optional collet sizes are available up to 1/4" / 6mm max shank capacity.

If unused for more than six months it is recommended to operate the your Air Turbine Tools® product for at least five minutes to avoid bearing grease deterioration.

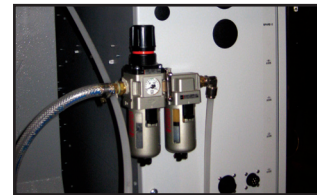
### Always operate in compliance with:

1. Safety code for portable air tools - ANSI 186.1, etc. Always use eye + face protection.
2. General Industry Safety & Health Regulations, Part 1910 and 2206 OSHA, etc.
3. Federal, State and local regulations and laws in your country.
4. Cutting tool manufacturers operating instructions. Do not use cutting tools unless they are RPM rated equal to or more than the air tool/ motor/ spindle rpm.
5. Air pressure exceeding 100PSI / 7 BAR must not be used. Avoid airleaks which reduce power.

Always Check **6.2 bar / 90 psi** max clean air pressure is unrestricted and supplies flow rate. CFM / L/M stated in specifications. Use flow meter to check air flow. Restrictions due to couplings, filters, hose, or filters result in under-powered performance.



In addition to the to the filter extractor supplied with spindles (pictured right), it is necessary to place a large filter on the air line at the compressor where heavy contamination is emitted by the compressor (pictured left).



Do not oil or use inline oilers. Oil or contaminated air will damage the tool and void warranty.

**WARNING: FAILURE TO COMPLY WITH ALL SAFETY REGULATIONS COULD RESULT IN SERIOUS INJURY.**

