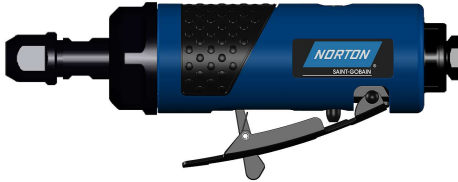


NORTON

Owner's Manual & Safety Instructions

Die Grinder –

25,000 MAX RPM (0.9 HP)



Important Safety Information

Please read, understand and follow all the instructions and safety information prior to use. Keep these instructions for future reference.

Intended Uses

This tool is intended for use in industrial applications by trained professionals in accordance with the instructions in this manual. The die grinder is designed for use with specialties like cartridge rolls, small diameter flap wheels, mounted points, carbide burrs and Bear-Tex® unified wheels. This is an **UNGUARDED** tool and should **NEVER** be used with cut-off discs or other bonded abrasive grinding wheels. Never use any accessory that has a MAX RPM rating less than the RPM marked on the tool.

WARNING

Failure to read, understand and follow all the safety warnings and instructions may result in serious injury.



Read the
Material Safety Data Sheets (MSDS)
before using any materials.



Contact the suppliers of the workpiece materials and abrasive materials for copies of the MSDS if one is not readily available.

WARNING

Exposure to **DUST** generated from workpiece and/or abrasive materials can result in lung damage and/or other physical injury.

Use dust capture or local exhaust as stated in the MSDS. Wear government-approved respiratory protection and eye and skin protection.

Failure to follow this warning can result in serious lung damage and/or physical injury.



WARNING

Failure to read, understand and follow these safety warnings and instructions may result in serious injury or death to the operator and/or bystanders.

General safety rules

- Only qualified and trained operators should install, adjust or use the power tool.
- Comply with all applicable standards including ANSI B7.7 *Safety Requirements for Abrading Materials with Coated Abrasive Systems* and ANSI B186.1 *Safety Code for Portable Air Tools*.
- Do not modify this power tool.
- Do not discard the safety instructions; give them to the operator.
- Do not use this power tool if it has been damaged.
- Inspect this power tool periodically to verify that the RPM rating and markings on the tool are legible.

Accessory and Projectile hazards

Failure of the accessory, tool or work-piece can generate high-velocity projectiles.

- NEVER mount a grinding wheel or cut-off wheel on this tool. This is a sanding/deburring tool. A cut-off or grinding wheel that bursts can cause serious injury or death.
- Always wear ANSI Z87+ approved impact resistant eye and face protection.
- The maximum operating speed of the accessory shall equal or exceed the rated speed marked on the tool. NEVER exceed the MAX RPM rating marked on the accessory.
- Use barriers to protect others from fragments and sparks. Be sure bystanders are made aware of the work, and also wear approved eye and face protection.
- Securely fix the work-piece.
- Disconnect the power tool from the energy source when changing inserted tool or accessories.
- Use only accessories that are recommended by the power tool manufacturer.

Operating and workplace hazards

Use of the tool can expose the operator to hazards including impact, cuts, abrasions and/or heat.

- Wear suitable gloves to protect hands.
- Hold the tool correctly and have both hands available.
- Maintain a balanced body position and secure footing.
- Release the start-and-stop device in the case of an interruption of the energy supply.
- Prevent slipping, tripping and fall hazards. Be aware of slippery surfaces and trip hazards caused by the air hose.
- Do not use the power tool in potentially explosive atmospheres.
- Do not allow spark stream near flammable materials.
- Make sure to avoid contact with electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.

Dust and fume hazards

Dust and fumes generated when using power tools can cause illness.

- Evaluate the hazards of the dust created/distributed during sanding.
- Review the SDS for the work-piece. Some dust created may

contain chemicals known to cause cancer and birth defects. Examples are: lead from lead based paint, crystalline silica from cement and masonry products, arsenic and chromium from treated lumber. Use appropriate respiratory protection.

- Use respiratory protection in accordance with employer's instructions and as required by occupational health and safety regulations.
- Operate the tool to minimize dust and fume emissions. Control dust or fumes at the point of emission.

Entanglement hazards

Contact with rotating parts can cause serious injury.

- Do not wear loose-fitting gloves or gloves with cut or frayed fingers.
- Keep hands away from rotating components.

Noise hazards

Exposure to high noise levels can cause permanent and disabling hearing loss.

- Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations.
- Operate and maintain the power tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise levels.
- If the power tool has a silencer, always ensure it is in place and in good working order when the power tool is operating.

Vibration and repetitive motion hazards

Exposure to vibration can cause damage to the hands and arms.

- Keep your hands warm and dry while using the power tool.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the power tool, tell your employer and consult a physician.
- Operate and maintain the power tool as recommended in the instruction handbook, to prevent an unnecessary increase in vibration levels.
- Hold the tool with a light but safe grip. Risk of vibration injury is generally greater with tighter grips.

Additional safety instructions for pneumatic power tool

- Compressed air can cause severe injury.
- Always shut off air supply, release air pressure in hose and disconnect tool from air supply when not in use. Do the same before changing accessories or making repairs.
- Never direct air at yourself or anyone else.
- Always check for damaged or loose hoses and fittings. Whipping hoses can cause severe injury.
- Direct cold air away from the hands.
- Do not exceed the maximum air pressure stated on the tool.
- Never carry an air tool by the hose.

Operating / Maintenance Instructions

Before each use:

- Always operate, inspect and maintain tool in accordance with all regulations (local, state, federal and country), that may apply to hand held pneumatic tools.
- Drain water from air compressor tank and condensation from air lines. See air compressor's operation manual.
- Lubricate tool daily.
- Select the required sanding accessory depending on the material to be sanded (see below).
- Securely mount the adaptor pad and/or sanding accessory onto the tool using the supplied wrenches.
- Connect tool to air hose of proper size.

To use:

- Turn on air compressor and allow air tank to fill.
- Set air compressor's regulator to 90 PSI (6.2 bars). This tool operates at a maximum 90 PSI (6.2 bar) pressure. Only use an air-line that has a pressure regulator attached. If there are multiple line connections to the compressor then each line must have a pressure regulator for the tool.
- Check the direction of rotation before use.
- Make sure the inserted tool is firmly secured by the collet.
- To Start or Stop:
 - Press down the throttle lever to start the tool. The tool will stop running when the throttle lever is released.
 - Wait until the tool has reached full speed, then gently contact the surface.
 - Keep heavy pressure off of the tool when operating. Allow the tool to do the work.
 - Move the tool in a uniform pattern up and down or side to side while sanding to ensure even sanding.
 - Periodically, stop the tool and check for accessory wear. Replace worn sanding accessories as needed.

General Notes:

- Run the tool without a load to check the vibration level before using tool. Excessive vibration level is a signal to maintain or repair the tool.
- Check the free running speed of the tool by tachometer weekly or after 20 hours of use.

- Keep tool clean after each use.
- Follow all local and federal regulations for the disposal of waste.
- Only use accessories recommended by the tool manufacturer.
- Always disconnect the air supply before performing any maintenance on the tool.

Lubrication

- Air tools require regular lubrication throughout the life of the tool. The air motor and bearing use compressed air to power the tool. Because moisture in compressed air will rust the air motor, you must lubricate the motor daily. An inline oiling device is recommended.

To lubricate the air motor manually:

- Disconnect the tool from the air supply holding it so the air inlet faces up.
- Depress the trigger and place one to two drops of air tool oil in the air inlet.
- Connect the tool to an air source, cover the exhaust end with a towel and run for a few seconds.

Note: Do not lubricate tools with flammable or volatile liquids such as gasoline, kerosene, diesel or jet fuel.

Recommended Accessories:





- This die grinder is designed for specialties like cartridge rolls small diameter flap wheels, mounted points, carbide burrs and Bear-Tex® unified wheels. The accessories must have a rated speed greater than the speed marked on the tool.
- A complete line of these accessories can be found at Nortonabrasives.com or contact your local Norton representative.

Additional Information

For Questions or Product Information Call:
(800) 551-4415 or visit Nortonabrasives.com

Operation/Maintenance


Description of Safety Icons:

	Read and comply with all the safety information.
	Always wear approved eye, ear and respiratory protection.
	Always wear safety gloves
	Direction of rotation



SAVE THESE INSTRUCTIONS.

Specifications/Conformance

Model number	69957308000	
Type of tool	Die Grinder	
Dimension	7x2x3" (180x48x75mm)	
Weight of tool	1.76 lbs. (0.8kg)	
Compressed air		
Maximum permissible operating pressure	6.2 bar (90psi)	
Recommended operating pressure	6.2 bar (90psi)	
Free Speed	25000 rpm	
Air Consumption @ 90psi	116 l/min (4 CFM)	
Noise values according to EN ISO 15744		
A-weighted sound pressure level at workstation	74.8dB	
A-weighted sound power level	89.4dB	
Peak C-weighted sound pressure level at workstation	< 130 dB	
Measurement uncertainty (Standard)	3 dB	
Vibration value according to EN ISO 28927-12	5.19 m/s ²	
Measurement uncertainty (Standard)	1.01 m/s ²	
Recommended lubrication	Air drill oil 20#	
Sanding tool specifications	Collet chuck 1/4" (6 mm)	
Conformance to Machinery directive 2006/42/EC	EN ISO 12100, EN ISO 11148-9 EN ISO 15744, EN ISO 28927-12	
Applications & suitability	Final surface finishing, chamfering deburring of architectural millwork, sheet metal and surface prep, zinc casting, aluminum products, injection molds, etc. general sanding and polishing.	