



Operator's Instruction Manual
TL-9 TURBO-LITE



DIRECT DRIVE Grinder



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SMI DUST AND SILICA WARNING

WARNING Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheets and/or consult your employer, the manufacturers/suppliers, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers/suppliers, OSHA/NIOSH, and occupational and trade associates. Water should be used for dust suppression when wet grinding/cutting/drilling is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/OSHA for the material being used.

WARNING Grinding/cutting/drilling of masonry, concrete and other materials with silica in their composition may give off dusts or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed repairable crystalline silica as a substance known to cause cancer. When grinding/cutting/drilling such materials, always follow the respiratory precautions mentioned above.

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READ AND UNDERSTAND THE OPERATORS INSTRUCTION MANUAL THOROUGHLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.
Death or serious injury could occur if this machine is used improperly.

SAFETY MESSAGES

Safety instructions are preceded by a graphic alert symbol of DANGER, WARNING, or CAUTION.

DANGER Indicates an imminent hazard which, if not avoided, can result in death or serious injury.

WARNING Indicates an imminent hazard which, if not avoided, can result in death or serious injury.

CAUTION Indicates hazards which, if not avoided, could result in serious injury and/or damage to the equipment.

GASOLINE/PROPANE POWERED EQUIPMENT

WARNING Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

WARNING Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool engine.

Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline or propane powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, headache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

ELECTRICAL POWERED EQUIPMENT

Extreme care must be taken when operating electric models with water present: Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

Check all electrical cables - be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.
NOTE: In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. DO NOT modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.
Switch motor OFF before disconnecting power.

Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.
Unplug power cord at the machine when not in use and before servicing.

GENERAL INSTRUCTIONS

Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.
This is a one person tool. Maintain a safe operating distance to other personnel. It is the operator's responsibility to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. for a safe distance. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.
This equipment is intended for commercial use only.
For the operator's safety and the safety of others, always keep all guards in place during operation.
Never let equipment run unattended.

Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection MUST be used (operational noise levels of this equipment may exceed 85db). Eye protection MUST be worn at all times.

Keep body parts and loose clothing away from moving parts. Failure to do so could result in dismemberment or death.
Do not modify the machine.
Stop motor/engine when adjusting or servicing this equipment.
Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.

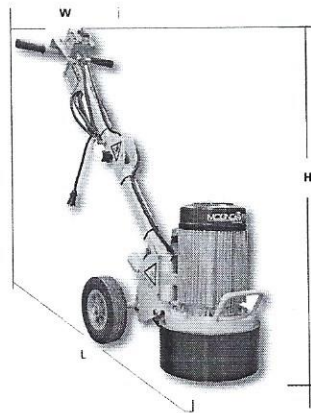
DUST WARNING

WARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints, and
 - Crystalline silica from bricks and concrete and other masonry products.
- Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrial-style vacuum, and wear approved personal safety equipment, such as a dust/particulate respirator designed to filter out microscopic particles.



SPECIFICATIONS



NOTE: All dimensions and weights are for reference only and subject to change at any time.

Figure 1

HOW TO ORDER REPAIR PARTS

To insure product safety and reliability, always use genuine EDCO replacement parts when making repairs to the equipment.

When ordering parts, please specify the MODEL and SERIAL NUMBER of the machine as given on the NAMEPLATE. In addition, give part number, description and quantity as listed on the parts list.

Please note: Due to improvements and changes in the equipment the illustrations shown may be different from the actual machine.

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	TL-9
Length	41" 60cm
Width	16 1/2" 24cm
Height	41" 60cm
	--
Head RPM	1690
Weight	89 lbs/41kg
Noise Level	Lwa - 100 dB(A)
Noise Level	Leq - 90 dB(A)
HAV	9.6 M/S ²

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OPERATING CONTROLS

PLEASE NOTE:

Due to improvements and changes in the equipment, the illustrations shown may vary from the actual machine.

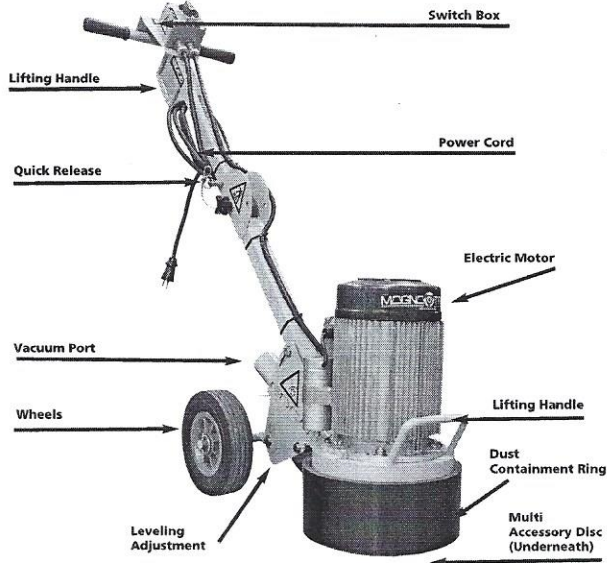
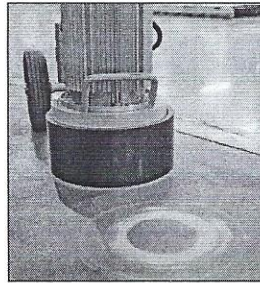


Figure 2

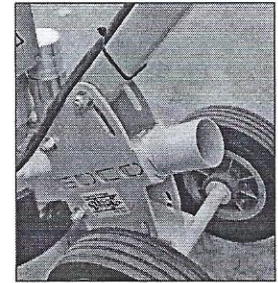


GETTING STARTED WITH YOUR NEW GRINDER



LOADING TOOLS:

Lean back slightly on the handle to get the tools off the surface and start the machine. Lower the machine to the surface and do a short touch pass on the concrete.



SWING AXLE:

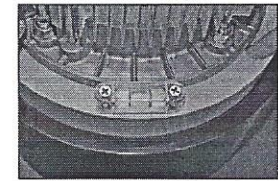
Loosen nut at rear wheel and raise or lower until a complete circle is achieved in a test area on the floor.

Also machine should move freely across the floor and not pull left or right.



DUST CONTAINMENT RING:

The Dust Containment Ring floats along with the grinder during normal use. Only remove this ring to grind next to walls.



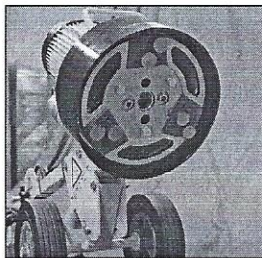
LEVELING BUBBLE:

Use the bubble on the main shroud for a starting reference point. Adjust as needed.



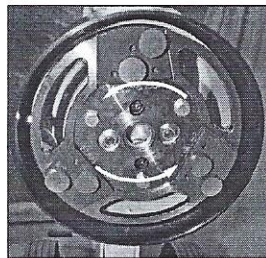
GETTING STARTED WITH YOUR NEW GRINDER

This unit is intended for grinding horizontal, dry floors such as concrete, asphalt or steel surfaces.



LOADING TOOLS:

Lean the machine back on the handle to expose the work area and load the proper tools for your job. Electric machines should be unplugged.



LOADING TOOLS:

Once all tools are in the proper position return the machine to the upright position. If you are using tools with PCD's or Strip-serts they have a leading edge and must be loaded as such. Also, remember the disc turns in the direction of arrow decal.

NOTE: The above illustrations are viewing the Machine from the front bottom.
NOTE the direction of rotation.



OPERATING INSTRUCTIONS

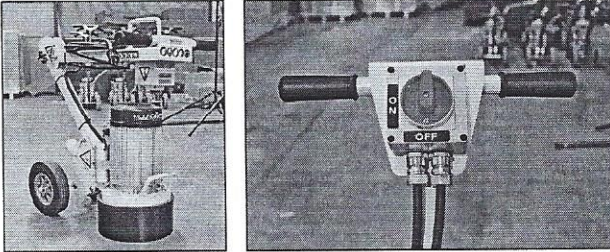
WARNING

- Read and understand all operating instructions before operating this equipment. Death or serious injury can result if this machine is used improperly.
- Concrete grinders are designed to be used to grind flat horizontal concrete slabs using EDCO approved accessories.
- The machines are equipped with electric motors.
- They are designed to be controlled by a single operator from a position at the rear of the machine.
- When operating equipment maintain a safe distance from other personnel in the area.

BE SURE TO READ THE COMPLETE INSTRUCTIONS SUPPLIED WITH YOUR MACHINE

IMPORTANT: Perform Pre-Start Check

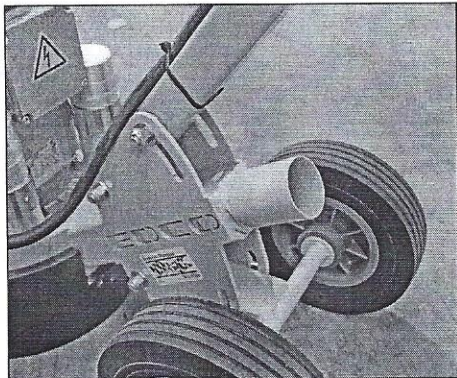
- Visually inspect the equipment for wear or damage.
- Be sure all guards are in place and functioning properly. Do not operate unless all guards are in place and secure.
- Perform all daily maintenance.
- Inspect accessories - Be sure the correct accessory is installed properly on the machine, mounting arrangement and its intended use.
- Check accessories for damage, the type of wear or damage will vary with the type of accessory.
- Inspect work area to determine the presence and location of deck inserts, pipes, columns and objects protruding from the slab surface so that they may be avoided during the grinding operation.
- FOR WET GRINDING: Attach the water supply. A flow rate of approximately 1/2 gallon per minute is recommended.

OPERATING INSTRUCTIONS


- **BEFORE STARTING THE MOTOR:** Raise the front of the machine clear of the working surface.
- **STARTING MACHINE:** Turn rotary switch to the on position.
- **START MOTOR AND ALLOW IT TO REACH OPERATING SPEED:** Position the grinder at the starting point. Allow the motor to reach full speed. Lower the machine onto the slab surface. Use a slow sweeping motion from left to right and back continuously, and do not force the machine to work, the motor should not strain when grinding.
- **FOR DRY GRINDING:** Provide a respirator and dust control system.
- **TO STOP THE MACHINE:** Stop forward motion, tilt machine to raise off of floor. Turn rotary switch to the off position and let the motor come to a complete stop.
- **WHEN MANEUVERING THE GRINDER:** Tilt grinder back enough so it does not strike the slab surface. Damage to accessories may occur with inadvertent contact with slab.
- **DO NOT FORCE GRINDER WHILE GRINDING**
- **IF THE POWER SOURCE FAILS:** Raise the grinder off of the floor. Disconnect the power source. Inspect the accessories for damage. Replace damaged (or questionable) accessories immediately.
- **WHEN TRANSPORTING THE GRINDER:** Disconnect the power source before lifting. Remove accessories when transporting.
- **WHEN HOISTING OR LIFTING A GRINDER:** Always inspect frame and attaching hardware for damage before lifting. Use proper safe hoisting and lifting techniques and hardware. With handle in transport position machine can be lifted like a suitcase if you are physically capable.

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ATTACHING A VACUUM / SERVICING HEAD ASSEMBLY

PROCEDURE FOR ATTACHING A VACUUM:

When using a vacuum for dust control attach it to the vacuum port at the rear of the machine as pictured above, securing it with a clamp if necessary.

SERVICING HEAD ASSEMBLY:

To repair or replace morflex bushing remove multi accessory disc to gain access.

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SAFETY INFORMATION

SAFETY MESSAGES

• Safety instructions are preceded by a graphic alert symbol of DANGER, WARNING, or CAUTION.

DANGER

Indicates an imminent hazard which, if not avoided, will result in death or serious injury.

WARNING

Indicates an imminent hazard which, if not avoided, can result in death or serious injury.

CAUTION

Indicates hazards which, if not avoided, could result in serious injury and/or damage to the equipment.

GASOLINE / PROPANE POWERED EQUIPMENT

WARNING

• Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

WARNING

• Tilling a gasoline powered machine fitted with an EPA approved vented charcoal filter gas cap, beyond 20" can cause fuel leakage. If a leak occurs, do not start or run the engine until the leak is fixed. Eliminate all other ignition sources in the immediate area (no smoking, flares, sparks or flames). Use approved gasoline absorbing material to contain the fuel leakage. Then use clean, non-sparking tools to collect absorbed materials then dispose of these contaminants properly.

• Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool engine.

• Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, head-ache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

• Never refuel a hot engine or an engine while it is running.

• Engines are shipped from factory without fuel/oil.

PROPANE POWERED EQUIPMENT CONTINUED



• Propane is extremely flammable and is heavier than air and tends to settle in low areas where a spark or flame could ignite gas. DO NOT start or operate this propane engine in a poorly ventilated area where leaking propane gas could accumulate and endanger safety of persons in area. If headache develops, shut off machine. Have it checked for carbon monoxide emissions by a qualified technician before using it again. To ensure personal safety, installation and repair of propane fuel supply systems must be performed only by qualified technicians. Carbon monoxide emissions from this machine are greatly increased due to a dirty combustion air cleaner.



ELECTRICAL POWERED EQUIPMENT

• Extreme care must be taken when operating electric models with water present. Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

• Check all electrical cables - be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.

• Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.

• NOTE: In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. DO NOT modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.

• Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.

• Unplug power cord at the machine when not in use and before servicing.

• Switch motor OFF before disconnecting power.

• Never use frayed, damaged, taped or under rated extension cords. Electrical shock could result in death or serious injury to the operator and damage to the equipment.

• Assure you are using the proper extension cord length.

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SAFETY INFORMATION

GENERAL INSTRUCTIONS

• Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.

• This is a one person tool. Maintain a safe operating distance to other personnel. It is the operators' responsibility to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.

• This equipment is intended for commercial use only.

• For the operator's safety and the safety of others, always keep all guards in place during operation.

• Never let equipment run unattended.



• Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection MUST be used when operational noise levels of this equipment may exceed 85db. Eye protection MUST be worn at all times.



• Keep body parts, loose clothing and accessories away from moving parts. Failure to do so could result in dismemberment or death.

• Do not modify the machine.

• Stop motor/engine when adjusting or servicing this equipment. Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.



OPERATOR RESPONSIBILITIES

• Read and follow all safety decals and labels.

• Maintain a safe operating distance to other personnel.

• Be familiar with all aspects of the machine's operation and controls before applying power to the equipment.

• Use the correct accessory for the job being performed and material being removed. Make sure accessories are mounted correctly.

• Never operate this machine while under the influence of drugs or alcohol, while taking medications that impair the senses or reactions, or when excessively tired or under stress.

• Follow the instructions in the operator's manual and exercise caution.

• Comply with all local safety and health regulations as well as EPA and OSHA regulations.

• Read/Maintain a copy of the equipment's operator's manual and the engine/motor manufacturers operators manual with the machine for reference at all times.

• Be sure all decals on the machine can be clearly read and understood. Replace worn/missing decals immediately.

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SAFETY INFORMATION

AIR POWERED EQUIPMENT



• When operating this equipment, the operator must wear approved job related safety attire. Eye and hearing protection must be worn at all times while equipment is in use as sound levels exceed 85 dBA. Steel toe safety shoes should be worn. Head protection is required if work is performed overhead. Wear proper dust mask based on material being removed.

• Use the correct size air hose for the tool, 1/2" diameter (minimum). Hose and fittings must be rated for safe handling in excess of 100 PSI pressure. The working pressure of this tool is 80-90 PSI and should never be allowed to exceed 100 PSI. If damaged hose is present, replace the hose before further use.

• Limit the hose length to 30 feet (10 meters) maximum. Note: The pressure drop of 1/2" diameter hose is approximately 1 PSI per 90 linear feet.

• Limit the hose length to 30 feet (10 meters) maximum. Note: The pressure drop of 3/8" diameter hose is approximately 3 PSI per 90 linear feet.

• A filter/water separator must be provided on the air source to afford an adequate supply of clean, dry air to this machine. Keep hoses clear at all times.

• Disconnect the air supply before performing any maintenance on this machine. Use only genuine EDCO parts with this equipment. Failure to do so may result in serious bodily injury or death.

• Replace any damaged parts immediately. Use only genuine EDCO parts.

• Do NOT force the tool into the work. The hammering action of the tool will perform the work for you. If the tool does not seem to perform the work to your specifications, check the air supply to verify proper air pressure and lubricator is functioning properly. If above suggestions do not remedy the problem call our customer service department at 1-800-638-3326 for possible solutions and trouble shooting.

• After turning the air valve hand lever off, the tool will continue to operate for a few seconds. This is a normal result of stored up pressure in the machine casing being released gradually. Be sure to firmly grip the machine until ALL air leaves the chamber.

AIR POWERED EQUIPMENT CONTINUED

• Remove the air source from the machine when not in use.

WARNING

• This equipment will create dust from the material being removed. That dust may contain a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm. Check the chemical properties of the materials to be removed.

CAUTION

• It is the operator's responsibility to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. for a safe distance. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.

DUST WARNING

WARNING

• Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm. Materials being removed can be toxic or hazardous. A breathing respirator is required to help protect the operator. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, concrete and other masonry products. Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrial-style vacuum, and wear approved personal safety equipment, such as a dust/particle respirator designed to filter out microscopic particles.
- See more on the importance of dust prevention and silica warnings at: osha.gov/silica

- More concrete and silica dust suppression training and educational materials available at edcoinc.com/silica-standards or scan the QR code on page 5.
- Written exposure plans are provided at <http://www.edcoinc.com/written-exposure-control-plans/>

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DUST AND CRYSTALLINE SILICA WARNING

WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheets and/or consult your employer, the manufacturers/suppliers, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers/suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet grinding/cutting/drilling is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the material being used.

WARNING

Grinding/cutting/drilling of masonry, concrete and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When grinding/cutting/drilling such materials, always follow the respiratory precautions mentioned above.

See more on the importance of dust prevention and silica warnings at osha.gov/silica.

See more concrete and silica dust suppression training and educational materials at edcoinc.com/silica-standards or scan the QR code at right.





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SAFETY SYMBOLS

-  This symbol means that the guards must remain in place while the engine/motor on the machine is running because death or personal injury may result. (Yellow background with black pictogram and black outline)
-  This symbol means that there are moving parts and if feet/fingers/digits are inserted under any edge of the cutter/grinder/saw cover while the engine/motor on the machine is running that personal injury and loss of foot/fingers/digits may result. (Yellow background with black pictogram and black outline)
-  This symbol means the surface is HOT and that if fingers/digits/hands or any bare or unprotected skin comes in contact with this surface or hot accessory, possible serious burns and personal injury may result. (Yellow background with black pictogram and black outline)
-  This symbol means that potential hazardous voltages are present and the equipment must be properly grounded and extreme caution should be taken. If for any reason maintenance or repair is needed, insure that voltage(s) are disconnected at the machine and the source unless (be cautious) voltage needs to be present to troubleshoot the problem, then only qualified personnel should work on "live" systems. (Yellow background with black pictogram and black outline)
-  This symbol means that the machine is heavy if the machine needs to be lifted onto or off of a truck, loading dock etc. that proper technique or heavy duty lifting device should be used, personal injury could result. (Yellow background with black pictogram and black outline)
-  This symbol means that dangerous chemicals, gases, dust particles and/or fumes are present including carbon monoxide. Proper ventilation must be maintained. Do not use gasoline or diesel powered equipment indoors. (Yellow background with black pictogram and black outline)
-  This symbol means that there are sharp components and if feet/fingers/digits come in contact personal injury or death could result. (Yellow background with black pictogram and black outline)
-  This symbol means hazardous pressures are present. Caution should be exercised to prevent personal injury or damage to equipment. Face, eye and head protection should be used. (Yellow background with black pictogram and black outline)
-  This symbol means explosive and hazardous vapors are present. Caution should be exercised to prevent personal injury to face and eyes. Breathing and personal protection should be used when servicing. (Yellow background with black pictogram and black outline)

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Grinders (2DHD, 2EC/GC-NG, SEC, SEC-NG, TG-10, TMC-7, TL-9)



- Concrete grinders are designed to be used to grind flat horizontal concrete slabs using EDCO approved accessories.
- Perform Pre-Start Check**
- Visually inspect the equipment/accessories for wear and damage. Be sure all fasteners are tight and secure, check for signs of metal cracking, inspect for damage to electrical wiring, damage to fuel lines, check bearings. Perform all daily & required maintenance.
- Check to be sure water tubes are functioning properly if performing wet-grinding operations.
- Inspect work area to determine the presence and location of deck inserts, pipes, columns and objects protruding from the slab surface so that they may be avoided during the grinding operation.
- **For wet grinding:** attach the water supply. A flow rate of approximately 1/2 gallon per minute is recommended. Use the flow valve to regulate the flow of water. Adding water to the process may create a wet/slippery working surface, use caution.
- **Before starting the engine or motor:** Raise the front of the machine clear from the working surface. Assure rotary switch is in OFF position before plugging in the electric power source (on electric models).
- Operating Instructions:**
- **Start engine/motor and allow it to reach operating speed:** Position the grinder at the starting point. Bring the engine to full speed. Lower the machine onto the slab surface. Use a slow sweeping motion from left to right and back continuously and **do not force the machine into the work**, the engine or motor should not strain when grinding.
- **For gasoline models:** Put the engine stop switch in the "Run" position. Consult the engine manufacturers operating instructions and follow directions for starting and breaking in the engine.
- **To stop the machine:** Stop forward motion, raise the front of the machine clear from the working surface. On gasoline models push the throttle to idle. Turn ignition or power switch off and let the engine come to a complete stop.
- **To stop the machine (propane models):** If stopping for the day, close valve and allow machine to purge propane from the system. If using E-Stop wait several minutes for propane to clear fuel system and carburetor before trying to restart.
- **When maneuvering the grinder:** Tilt grinder back enough so it does not strike the slab surface. Inadvertent contact with the slab could damage accessories.
- **If the power source fails:** Raise the grinder off the slab. Disconnect the power source (i.e. the spark plug wire on a gasoline engine). Replace damaged (or questionable) accessories immediately.
- **When transporting the grinder:** Disconnect the power source before lifting or removing any guards. Remove accessories during transport.
- **When hoisting or lifting a grinder:** Always inspect frame and attaching hardware for damage before lifting. Use proper safe hoisting and lifting techniques and hardware. Always lift from both sides. Lifting hooks are to be used with a qualified strap or chain only. These hooks are not meant for manual lifting. Lift from areas that show a "lifting point" decal.
- Maintenance Instructions:**
- Disconnect the machine from the power source. Remove the spark plug lead on the propane and gasoline engine models or disconnect the supply voltage connector at the machine on the electric models before performing any maintenance. All maintenance to be performed regularly and by a qualified personnel.
- **Never** work under equipment without first properly securing the equipment to prevent it from moving or falling. **Always** work on a flat and level surface.
- Inspect all belts before each operation. Damaged, stretched, or excessively worn belts should be replaced with a new matched set for maximum power transfer. On gas and propane models inspect spark plugs. Clean if dirty, replace if the electrodes are burned. Gap plugs at 029".
- For propane and gas models, refer to the engine manual for maintenance information specific to the engine being used.
- For propane models use a mild detergent motor oil that will not leave ash deposits. *Gas engine oils* are available from major petroleum companies. These *gas engine oils* are specifically blended for long-life on LP-gas or natural gas engine operation, which will not carbon up the combustion chamber or shorten valve lift. Premium oils should not be used in LP-gas or natural gas engines as the metallic detergents will damage the engine valves.
- Before operation, check grinding discs to be sure they are tight. Grinding discs loosen with use. Tighten bolts as required.

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EDCO
EQUIPMENT DEVELOPMENT CO., INC.



SAFETY SYMBOLS

-  This symbol means that the Operator's, owners, instruction and/or manufacturer(s) manuals must be read and understood before operating or attempting to operate this electrical, gasoline, diesel or propane powered equipment, failure to do so can result in personal injury and possible death. (Blue background with white pictogram.)
-  This symbol means that proper eye protection must be worn/used during the operation of this equipment. There is a potential risk of operator eye damage, injury or loss of sight. This also applies to any personnel standing nearby observing the operation of this equipment. (Blue background with white pictogram.)
-  This symbol means that proper ear protection should be worn/used during the operation of this equipment. There is a potential risk of operator hearing damage, injury or loss of hearing which will increase based on the length of exposure. This also applies to any personnel standing nearby observing the operation of this equipment. (Blue background with white pictogram.)
-  This symbol means that proper head protection should be worn/used during the operation of this equipment there is a potential risk of operator head injury from foreign or loose objects the equipment might come in contact with during operation. This also applies to any personnel standing nearby or observing the operation of this equipment. (Blue background with white pictogram.)
-  This symbol means that proper breathing protection or engineering controls must be worn/used during the operation of this equipment there is a potential risk of operator lung damage. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, to California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When grinding/cutting/drilling such materials, always follow local respiratory precautions. This also applies to any personnel standing nearby or observing the operation of this equipment. (Blue background with white pictogram.)
-  This symbol denotes the lifting point and means that if lifting of this equipment is necessary use a lifting device that is designed to accommodate or exceed the weight of this machine. Check the Operator's manual for specifications. Using a device that is not designed to accommodate or exceed the weight of this machine could result in damage to the machine and personal injury. Do not lift equipment over people because death or serious injury could result. (Blue background with white pictogram.)
-  This symbol means do not insert fingers/digits under any edge of the belt cover while the engine/motor on the machine is running because personal injury and loss of fingers/digits may result. (Black pictogram with red "No" symbol outline)
-  This GHS pictogram identifies that the chemicals contained present serious health hazards. (Black pictogram with red diamond symbol outline)

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