



Operator's Instruction Manual

## TL-9 TURBO-LITE



**DIRECT DRIVE Grinder**



**EQUIPMENT DEVELOPMENT COMPANY**

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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, 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.

 • 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 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. 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/particle respirator designed to filter out microscopic particles.



## 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 respirable 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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## SPECIFICATIONS



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

**Figure 1**

	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 <sup>2</sup>



## 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

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.





## 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:

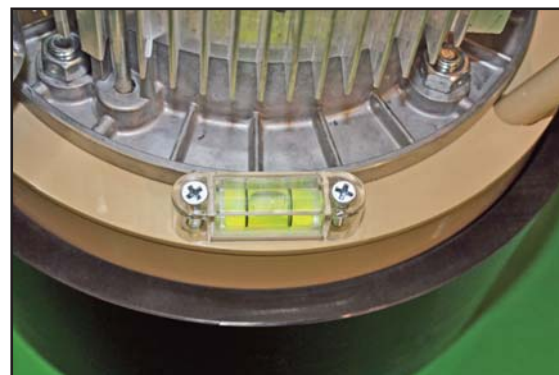
Loosen nut at rear wheel and raise or lower until a complete circle is achieved in a test area on the floor.

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.



## 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.

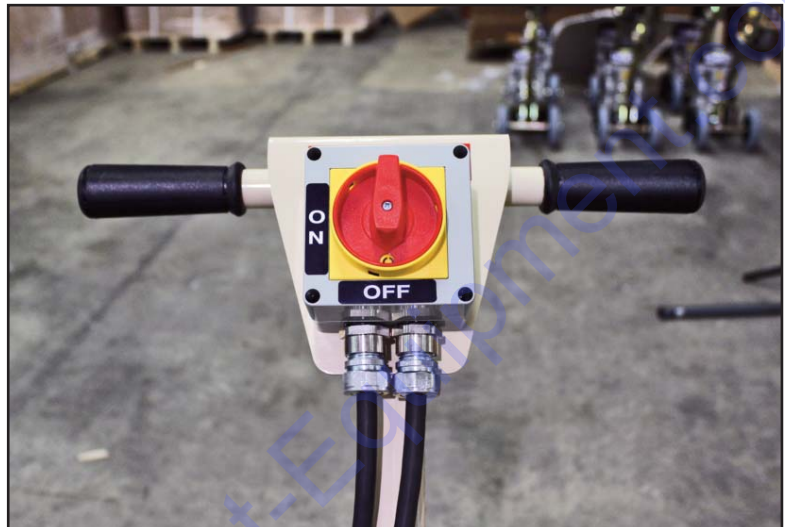
### BE SURE TO READ THE COMPLETE INSTRUCTIONS SUPPLIED WITH YOUR MACHINE

#### 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.



## 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.





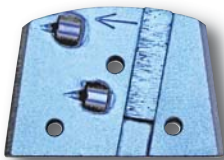
## FOR USE WITH DYMA-SLIDER SYSTEM



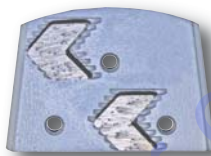
**DOUBLE DIAMOND DOTS:** General Purpose Grind - Removes general purpose epoxy, mastics, thinsets, water-proofing coatings and more.



**SINGLE DIAMOND DOTS:** Aggressive Grind - Grinds and removes thick epoxies, weather-proofing membrane and other coatings.



**PCD ACCESSORY:** Extremely Aggressive Removal - Digs through industrial strength coverings, water-proofing membranes, thick epoxies and much more - *Leaves a textured concrete surface.*



**EDCO ARROW:** Hard glue removal, fast coating removal, create smooth surfaces and more.



**MAGNA-BLADES™:** use carbide tipped blocks to strip away coatings and clean floors without grinding into the concrete. MAGNA-BLADES have a replaceable, multi-sided tungsten carbide edge that can be rotated for maximum use.



## MAINTENANCE INSTRUCTIONS

**DANGER**

1. Disconnect the machine from the power source. Disconnect the supply voltage connector at the machine on electric models before performing any maintenance. All maintenance to be performed by qualified personnel.

2. 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.

3. Perform a visual inspection of the entire machine before each operation. Be sure all fasteners are tight and secure, check for signs of metal cracking or fatigue, inspect for damage to electrical wiring, and inspect to be sure proper guards are in place and secure.

4. Before operation, check grinding discs to be sure it is tight. Grinding discs loosen with use. Tighten bolts as required.

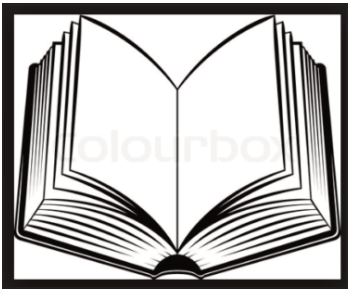
An occasional drop of two of oil on the wheel bearings will help prevent binding.



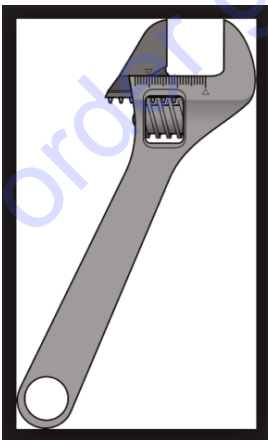


## MAINTENANCE SCHEDULE

	Before Operation	Every 4 Hours	Daily	Every 50 Hours of Operation	As Required
Visual Inspection of Entire Machine	<b>X</b>				
Inspect Grinding Disc	<b>X</b>				
Clean Dust & Dirt Off Machine					<b>X</b>



**Read and follow all instructions in the Engine Manufacturer's Owners Manual.**



**Repairs are to be performed by approved EDCO repair technicians**

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