



# Operator's Instruction Manual

## TMS-10



**10" Electric Powered Tile Saw**  
Shown with optional stand



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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.



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



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



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

### GASOLINE/PROPANE POWERED EQUIPMENT



• 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



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.

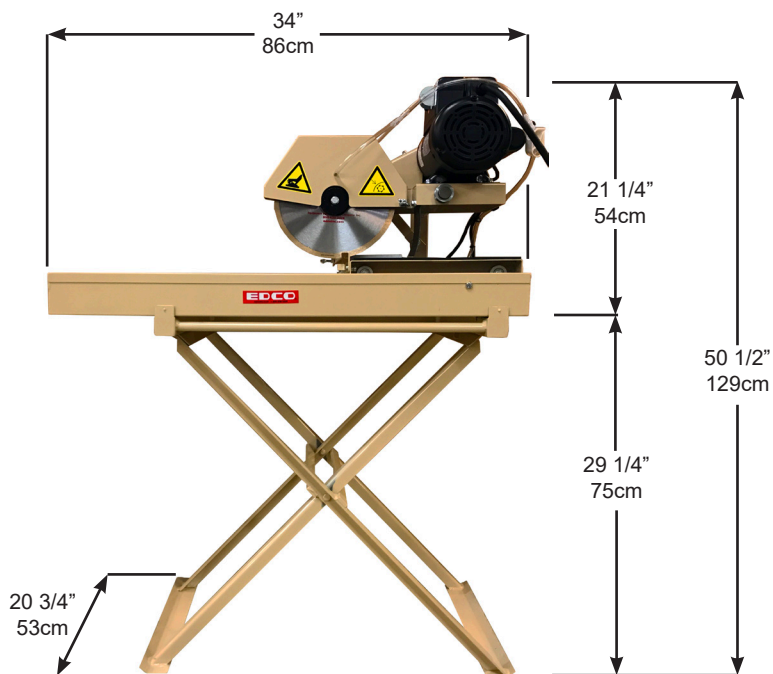


# Equipment Instruction Manual

## EDCO TMS-10

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Shown with optional  
 "Folding Table"  
 22 lbs 10 kg

**Note:** Dimensions and Specifications for the TMS-10 are approximate and subject to change.

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.

Toll Free: Voice 1-800-638-3326 • Fax 1-800-447-3326

Overall Dimensions without optional stand		
Height	21 1/4"	54cm
Width	20 3/4"	53cm
Length	34"	86cm
Weight	96 lbs	44kg



Read and understand this *Operator's Instruction Manual*,  
and the *Engine Manufacturer's Owner's Manual*  
before operating this equipment.



Death of serious injury can result if this machine is used improperly.



## Safety Guidelines



Eye and ear protection must be worn at all times while the TMS-10 is in use. During normal operation, sound pressure levels exceed 85dBA. Use only ANSI approved safety glasses to help prevent eye injury. Everyday eyeglasses have only impact resistant lenses; they are NOT safety glasses.



Operator must wear appropriate clothing and footwear. Do not wear loose clothing or jewelry that can get tangled in moving parts. Footwear should provide sure footing and protection from debris that may be dropped. Take precautionary steps to be sure hair will not be caught in moving parts.



- When loading or unloading the saw, use caution. Make sure rolling table is locked using the table lock so that the blade will not be damaged. (Figure 4, Item Q) Do not move the saw while the engine is running.

- This TMS-10 electric powered saw is designed to be used in areas where electrical power is available.
- If the thermal overload relay is triggered; allow for the motor to cool before compressing the thermal "RESET" button. (Item N, Figure 3)



• This machine is designed to cut interlocking pavers, retaining wall block and brick. The work piece must be placed on the rolling table surface and the table used to move the work piece to the blade. Cut only in a straight line. Do not force or twist the work piece into the blade. Personal injury or damage to the equipment or blade can result.



• Never exceed the maximum operating speed of the blade. Match the blade speed rating with the arbor shaft speed. (See page 7)

• Never leave the saw running unattended.

- Never operate this saw under the influence of drugs, alcohol or when taking medications that impair the senses or reactions, or when excessively tired or under stress.
- Make sure all safety decals can be clearly read and understood. Replace damaged or missing decals immediately.

Safety warnings and guidelines do not by themselves eliminate danger. They are not given as substitutes for proper accident prevention procedures and good judgement.



## Operating Instructions

Consult the Motor Manufacturer's Owner's Manual for information on specific models.

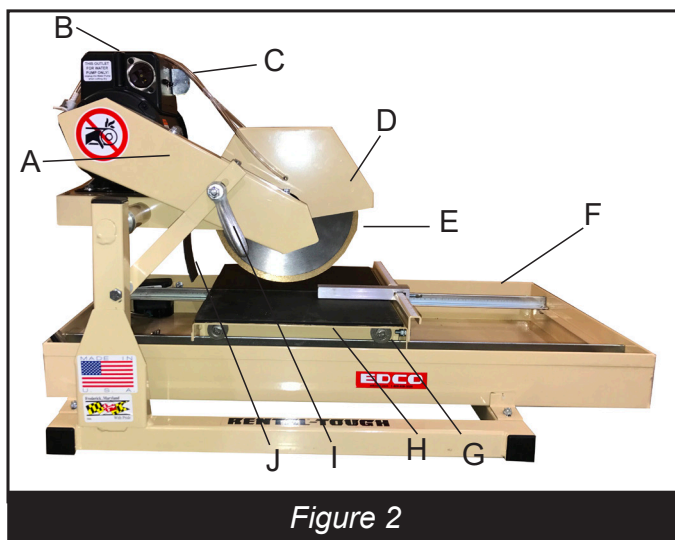


Figure 2

- A. Belt Guard
- B. Electric Motor
- C. On/Off Switch
- D. Blade Guard
- E. Diamond Blade
- F. Water Tray
- G. Rolling Table Wheels
- H. Rolling Table
- I. Head Locking Handle
- J. Splash Guard

- K. Electric Motor
  - L. Water Pump Outlet
  - M. Belt Guard
  - N. Thermal Overload
- Note: Item "L" is designed for water pump use only. Damage may occur if used to power other devices.

- O. Belt Guard
  - P. Rolling Table
  - Q. Water Pump Tube
- Note: Submersible water pump not shown.

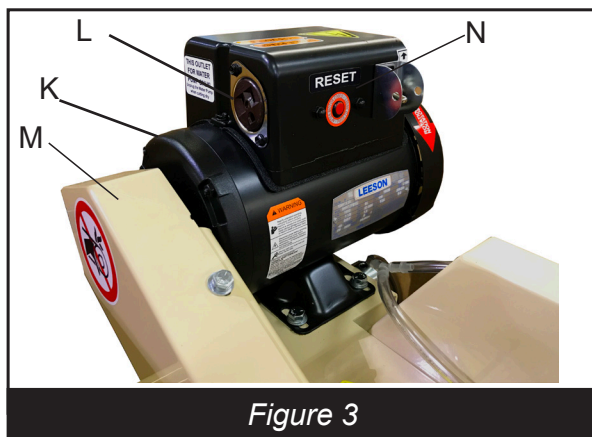


Figure 3

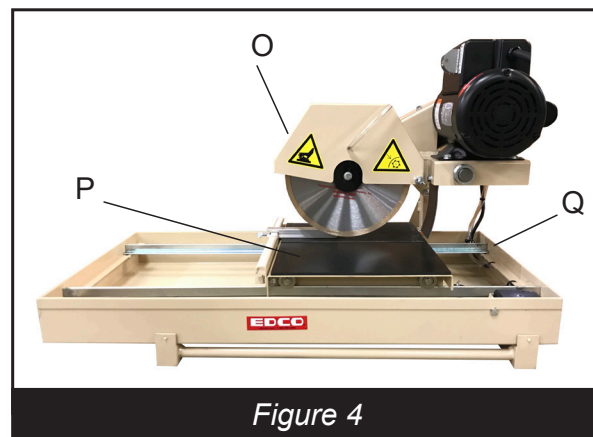


Figure 4



## Operation

Turn motor switch to on position -- listen for motor to reach operating speed. DO NOT use machine if motor hums or does not reach operating speed within a few seconds.

Motor hum is a malfunction that may be caused by:

1. Insufficient voltage
2. Motor improperly wired
3. Internal motor problems
4. Blade jam
5. Over tensioned belt
6. Damaged motor cooling fan guard

Electric motor burnout is usually due to incorrect operation. Some common causes are feeding material too fast causing the blade to jam, insufficient voltage from power supply, undersized or excessive length of extension cord.

When cutting masonry products - it is important that the blade cut at its maximum recommended speed (R.P.M) - Do not force or jam blade - this will cause motor to overheat, trip overload device, or motor burn out.

When using diamond blades always keep water supply above minimum level to insure that blade is running cool. Use proper blade for material to be cut.

Proper blade speed is between 2400 RPM (1 HP) and 3400 RPM (1 1/2 HP) motor.

Since blades made by different manufacturers act differently - do not expect to get the same results from each blade.

Rule of thumb: hard materials require soft blades. Soft materials require hard blades. Check manufactures specifications on blade and be sure it corresponds with the material you will be cutting.

For wet cutting:

- Fill tray with clean water (approximately 1 1/2" deep or 3.5 gallons)
- Connect submersible pump into special pump outlet on motor.
- Keep tray clean and do not allow pump to run dry by becoming jammed with dust or cuttings.
- BE SURE THAT ADEQUATE WATER REACHES THE BLADE
- Check hoses, valves, etc.
- Clean screen on water pump.
- Water flow can be adjusted using clamps on water supply hose.





### Before Starting:

- Read and understand the instructions supplied by the motor manufacturer.
- Familiarize yourself with all saw controls. (Figures 2-4)
- Visually inspect the entire machine for damage or wear. Remove excess dirt or debris. Check that all nuts, bolts and screws are tightened. Check for proper alignment of moving parts, possible binding of moving parts, breakage of parts, loose mounting brackets, and any other condition that might affect operation.
- Inspect diamond blade and arbor shaft. Check blades for cracks, loose segments, worn or out-of-round arbor holes. Do not use warped, twisted, out-of balance blades or any blade of questionable condition. (Figure 8)
- If wet cutting, fill the water tray with water. The water pump recycles the water from the tray, plug the drain hole and be sure the water is circulating from the tray to the water pump. Clean water pump daily using at least 5 gallons of clean water.
- If wet cutting, with an external source of water, attach water source to the machines supply hose as shown in figure 5, open the drain plug in the water tray and make sure the water has somewhere to go that is clear of the working area.

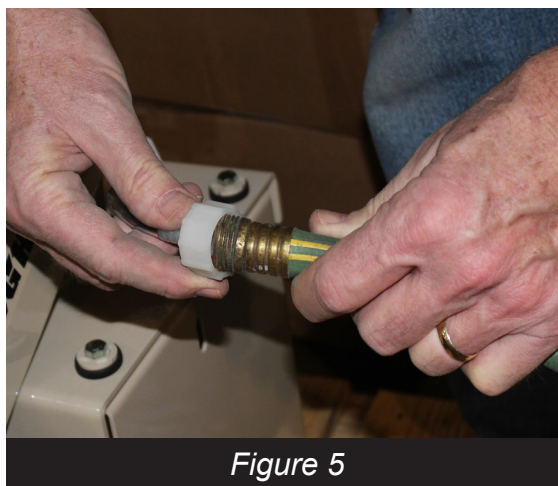


Figure 5

Use Diamond Blades Only	
Blade Diameter	10 inches
Arbor Shaft Diameter	5/8"
Max Cutting Depth	3 3/4"
Arbor Speed	1 HP - 2400 RPM 1 1/2 HP - 3400 RPM



### Starting the Saw:

- Be sure blade is clear of item to be cut.
- Be sure cutting head is secured in cutting position.
- Turn motor power switch to on position and observe that motor comes to full speed before continuing.

### Cutting:

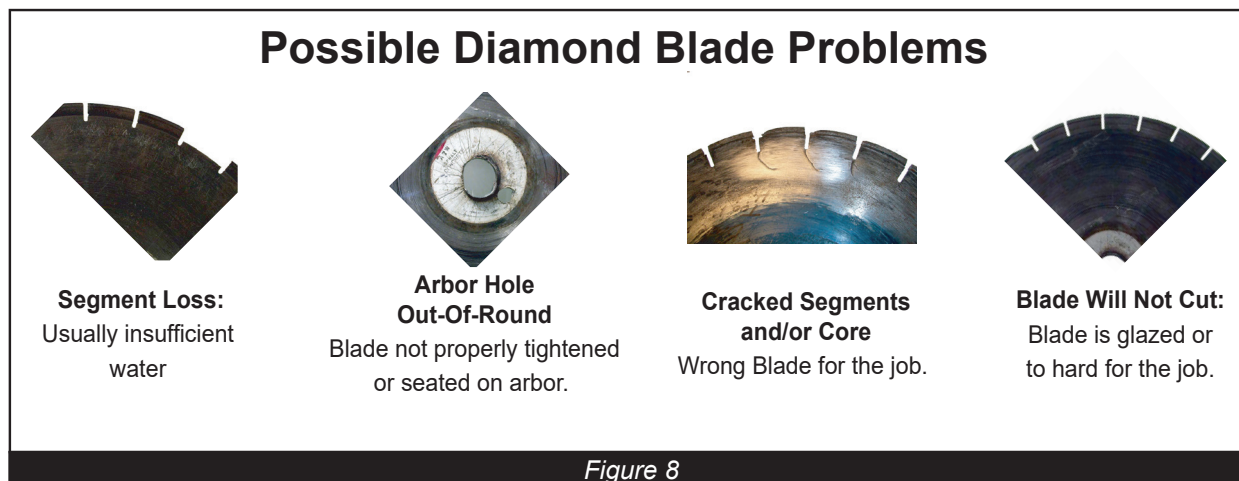
- Place work piece on rolling table against the backstop and use the rolling table to move the work piece to the blade. Do not strain the engine while cutting or jam work piece into the blade. Do not twist the work piece while cutting.
- Do not reach underneath or around work piece while the blade is rotating.
- Keep stable footing at all times while cutting.
- Keep hair, clothing, fingers and all body parts away from the blade and any other moving parts.



- For wet cutting, maintain an adequate supply of water to cool the blade.  
**Note:** If using the water pump, clean water must be run through the pump daily to avoid build up in the pump.
- When you have finished cutting, stop the motor by turning the motor power switch to the OFF position. Do not leave the saw running unattended.
- Clean dust and debris from entire machine.

**IMPORTANT REMINDER:** This machine is designed to use diamond blades to cut tile, and masonry products. Do not use it to cut anything else.

Refer to the *Rx for Diamond Blades* for more detailed information on diamond blades.







## Maintenance

**WARNING**

**Disconnect power plug lead before performing any maintenance on this machine.**

**WARNING**

Consult the *Motor Manufacturer's Owner's Manual* for more detailed motor maintenance instructions.

### Changing the Blade:

- Inspect the new blade thoroughly before installing. Check for cracks, loose segments, worn or out-of-round arbor holes. Refer to the *Rx for Diamond Blades* pamphlet provided with your blade for more detailed information on inspecting blades.
- The TMS-10 was designed to be used with diamond saw blades only.

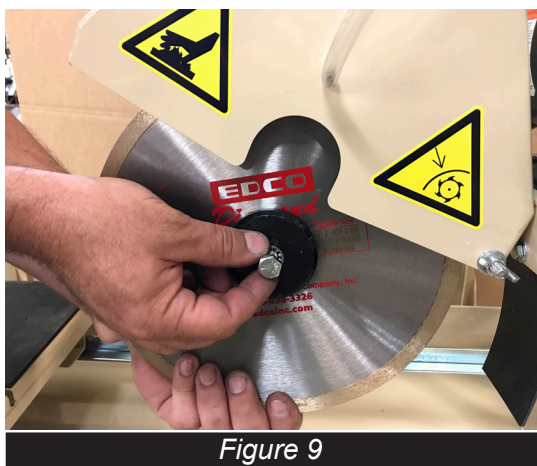


Figure 9

Push the rolling table all the way to the back or front of the machine to allow full blade clearance.

Loosen the wing nut and slide blade guard up and tightened into place.

Loosen and remove locking plate bolt. Carefully remove old blade. (Figure 9)

Inspect arbor shaft, backing plate and blade guard while blade is off.

Clean if dirty or replace if damaged or worn.

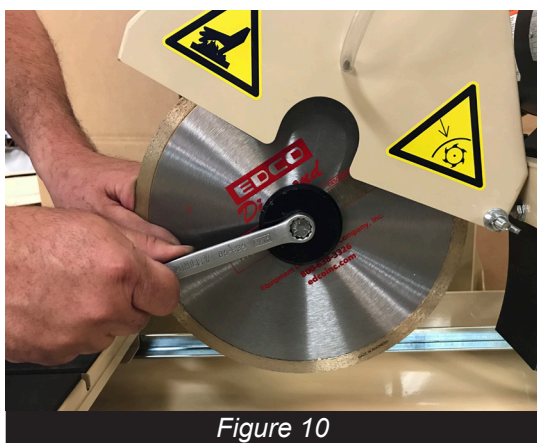


Figure 10

Look for "direction of rotation" markings on the new blade. (Usually an arrow stamped on the blade.)

Place new blade on the arbor shaft verifying that the markings on the blade follow the proper direction of rotation.

Reinstall and tighten bolt using a SAE 9/16 wrench.

Reposition blade guard and tighten wing nut. (Figure 10)

Reconnect power plug lead.



### **Belt Adjustment and Replacement:**

- Periodically check to be sure the belt is undamaged and that it is the proper tension. Slipping belts will overheat causing the cutting speed to be limited and will shorten the life of the belts. Over-tensioned belts will shorten the life of the belts and bearings.
- On new equipment and after installing new belts, be certain to re-tension the belts after the first 4 hours of use. New belts are stiff and require a break in period. Belts that become loose could slip and/or overheat.
- Damaged, stretched or excessively worn belts should be replaced with a new complete set of belts.

**IMPORTANT:** A belt must be replaced if it is showing wear.

### **Belt Adjustment and Replacement:**

Refer to Figure 11 to remove belt cover for belt tensioning or replacement.

Note: Keep track of where hardware goes for reassembly.

1. Remove lock nuts 2 each "A" & "B".
2. Remove head locking handle and bracket "C" & "D".
3. Remove 2 each bolts and lock washers "E" from belt guard.
4. Remove belt guard "F".
5. Refer to next two steps to tension or replace belt,

A straight edge is a good tool to use to be certain sheaves are properly aligned. (Figure 12)

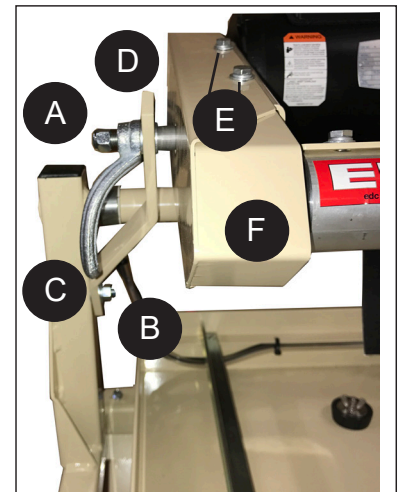


Figure 11



Figure 12

To tension or replace belt, loosen motor assembly bolts (4) circled in Figure 13 and slide motor assembly forward or back until belt is at proper tension or loose enough to remove belt.

Tighten motor assembly mounting bolts.

**NOTE:** Insure motor and arbor sheaves are lined up according to previous step.



Figure 13



Figure 14

### **Clean and Lubricate Wheels on Rolling Table:**

During daily visual inspection, check to be sure the wheels on the rolling table move smoothly and that there is no debris in the wheel tracks. (Figure 14)

Lubricate the wheels as necessary. Replace damaged or worn wheels.



Repairs are to be done  
by authorized EDCO  
Dealers only.



Read and follow instructions  
in the Engine Manufacturer's  
Owner's Manual.

## Maintenance Schedule

This is for a quick reference to the information supplied in the Maintenance portion of this manual.

	Before each Operation	Daily	Every 4 Hours	Every 50 Hours of Operation	As Required	Annually	Every 3600 Hours
Visually Inspect Entire Machine and Hardware	X						
Inspect Blade and Arbor Shaft	X						
Inspect Guards		X					
Clean Dust and Dirt Off Machine		X					
Inspect Belts			NEW		X		
Belt Tensioning					X		
Lubricate Wheels on Rolling Table					X		
Clean Water Strainer		X					
Motor Bearing if fitting available							X



### LIMITED EQUIPMENT WARRANTY OF SALE – TERMS & CONDITIONS

Equipment Development Company, Inc. herein referred to as EDCO (Seller) warrants that each new unit manufactured by EDCO to be free from defects in material and workmanship in normal use and service for a period of (1) one year (except for the cutter drum assembly on all model concrete/asphalt planes, in which case the warranty period shall be 90 days) from date of shipment to the original retail or equipment rental center owner.

Accessories or equipment furnished and installed on the product by EDCO but manufactured by others, including, but not limited to engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturers own warranty.

EDCO will, at its option, repair or replace, at the EDCO factory or at a point designated by EDCO, any part which shall appear to the satisfaction of EDCO inspection to have been defective in material or workmanship.

EDCO reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts.

This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to the warranty of merchantability and the warranty of fitness for a particular purpose in no event shall seller or the manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance, or operation, electrical failure or abnormal conditions and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller or used in any manner inconsistent with the provisions of the above or any instructions or specifications provided with or for the product

#### FORCE MAJEURE

Seller's obligation hereunder are subject to, and Seller shall not be held responsible for, any delay or failure to make delivery of all or any part of the Product due to labor difficulties, fires, casualties, accidents, acts of the elements, acts of God, transportation difficulties, delays by a common carrier, inability to obtain Product, materials or components or qualified labor sufficient to timely perform part of or all of the obligations contained in these terms and conditions, governmental regulations or actions, strikes, damage to or destruction in whole or part of manufacturing plant, riots, terrorist attacks or incidents, civil commotions, warlike conditions, flood, tidal waves, typhoon, hurricane, earthquake, lightning, explosion or any other causes, contingencies or circumstances within or without the United States not subject to the Seller's control which prevent or hinder the manufacture or delivery of the Products or make the fulfillment of these terms and conditions impracticable. In the event of the occurrence of any of the foregoing, at the option of Seller, Seller shall be excused from the performance under these Terms and Conditions, or the performance of the Seller shall be correspondingly extended.

This document sets forth the terms and conditions pursuant to which the purchaser ("Purchaser") will purchase and Equipment Development Co. Inc. ("Seller") will sell the products, accessories, attachments (collectively the Products") ordered by the Purchaser. These terms and conditions shall govern and apply to the sale of Seller's Products to Purchaser, regardless of any terms and conditions appearing on any purchase order or other forms submitted by Purchaser to Seller, or the inconsistency of any terms therein and herein.

#### 1. PRICE

All prices set forth on any purchase order or other document are F.O.B. Sellers facility or distribution point, as may be determined by Seller (F.O.B. Point). All prices are exclusive of any and all taxes, including, but not limited to, excise, sales, use, property or transportation taxes related to the sale or use of the Products, now or hereafter imposed, together with all penalties and expenses. Purchaser shall be responsible for collecting and/or paying any and all such taxes, whether or not they are stated in any invoice for the Products. Unless otherwise specified herein, all prices are exclusive of inland transportation, freight, insurance and other costs and expenses relating to the shipment of the Products from the F.O.B. point to Purchaser's facility. Any prepayment by Seller of freight insurance and other costs shall be for the account of Purchaser and shall be repaid to Seller.

#### 2. PAYMENT TERMS

Payment terms are as follows. 2% 10 days (to approved and qualified accounts). Net 30 days. This is a cash discount for invoices paid within 10 days after the invoice date, regardless of date of receipt of shipment. This is not a trade discount and will not be granted to accounts that do not adhere to stated terms.

\*All past due accounts are subject to a late payment fee of 1.5% per month or a maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney's fees and costs.

\*Seller reserves the right to hold shipments against past due accounts.

\*Seller reserves the right to alter payment terms.

#### 3. FREIGHT TERMS

All shipments will be made F.O.B. shipping point as designated in these Terms and Conditions, and title shall pass at the F.O.B. point. Delivery to the initial common carrier shall constitute delivery to the Purchaser. Any claims for loss or damage during shipment are to be filed with carrier by the Purchaser. Seller will not assume responsibility for the performance of the carrier.

Back orders will be shipped in the most practical fashion with charges consistent with our freight policy established with the original order. UPS, FED EX, MAIL or shipments by other couriers are subject to the same terms and conditions as outlined in paragraph #3 "Freight Terms".

#### 4. DELIVERY, DAMAGES, SHORTAGES

Seller shall use reasonable efforts to attempt to cause the Products to be delivered as provided for in these Terms & Conditions. Delivery to the initial common carrier shall constitute the delivery to the Purchaser. Sellers responsibility, in so far as transportation risks are concerned ceases upon the delivery of the Products in good condition to such carrier at the F.O.B. point and all the Products shall be shipped at the Purchaser's risk. Seller shall not be responsible or liable for any loss of income and/or profits, or incidental, special, consequential damages resulting from Seller's delayed performance in shipment and delivery.

#### 5. RETURN OF DEFECTIVE PRODUCTS

Defective or failed material shall be held at the Purchaser's premises until authorization has been granted by Seller to return or dispose of Products. Products that are to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon Seller's inspection based on prices at time of purchase.

#### 6. PRODUCTS ORDERED IN ERROR

Products may be returned, provided that claim is made and Seller is notified within 7 days of receipt of Products, and the Products are in original buyer's possession not more than 30 days prior to return, subject to Seller's approval. If Products are accepted for return, they must be Freight Prepaid and buyer will be charged a minimum of 15% restocking charge, plus a charge back for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any Products that are specifically manufactured to meet the buyer's requirement of either specifications or quantity.

#### AGREEMENTS

These Terms and Conditions constitute the entire agreement between Seller and Purchaser as it relates to terms and conditions of sale, and supersedes any and all prior oral or written agreements, correspondence, quotations or understandings heretofore in force between the parties relating to the subject matter hereof. There are no agreements between Seller and Purchaser with respect to the Product herein except those specifically set forth in and made part of these terms and conditions. Any additional terms, conditions and/or prices are rejected by Seller.

These terms and conditions may be modified, cancelled or rescinded only by a written agreement of both parties executed by their duly authorized agents.

**USE ONLY GENUINE EDCO PARTS & ACCESSORIES**  
**For your own safety, the safety of others and the life of your machine.**