Operating Instructions

Diamatic 735-P

Original Operating Instructions Version 2.0



Diamatic 622 Grant Rd Folcroft, PA 19032 Tel: +1 619-295-0893











Table of Contents

	Introduction	
2.	Machine Description	4
3.	Accessories	5
4.	Safety	6
	4.1 Emissions and CO safety	6
5.	Document Overview	8
	Potential Effects of CO Exposure	8
	Methods to Reduce the Risks of CO Poisoning	8
6.	Engine Emissions and CO Safety	9
	Potential Effects of CO Exposure	
	Methods to Reduce the Risks of CO Poisoning	. 10
	6.1 Work Area Safety	. 15
	6.2 Personal Safety	
	6.3 Machine Safety General	. 16
	6.4 Maintenance Safety	
	6.5 Safety Regarding Dust Collectors	. 16
	6.6 Grinding Safety	. 17
	6.7 Transport Safety	. 17
7.	Signs on the Machine	.19
8.	Initial Operations	
	8.1 Checkpoints of Electrical Safety	
	8.2 Checkpoints of Machine Safety	
	8.3 Manual Moving of the Machine	
	8.4 DIAMAG/SUPERMAG	
	8.5 Changing the Wings/Discs	
	Correct position of the machine for changing tools.	
	8.6 Removing the Diamond Wings	
	8.7 Mounting the Diamond Wings	
	8.8 Before Start-up.	
9.	Operating	
	9.1 Starting the machine on the machine	
	9.2 Turning off the Machine	
	9.4 Operating during grinding	
	9.5 Wet grinding	
10	.Tool Tips for BMG-735P	
	10.1 Start Up	
	10.2 Shut Down	
	.Maintenance	
	.Troubleshooting	
	Technical Data	
14	Electrical Schematic	.32

1. Introduction

Before use, operators must be provided with information, instruction and training for the use of the machine and the substances for which it is to be used, including the safe method of removal and disposal of the material collected. All persons who are working with or maintaining this machine must read the manual carefully and understand it fully. In case you sell the unit, hand it on to the next owner.

Keep this manual always with the machine, to enable it to be referred to at any time. Any other work not covered by this operating manual must not be carried out.

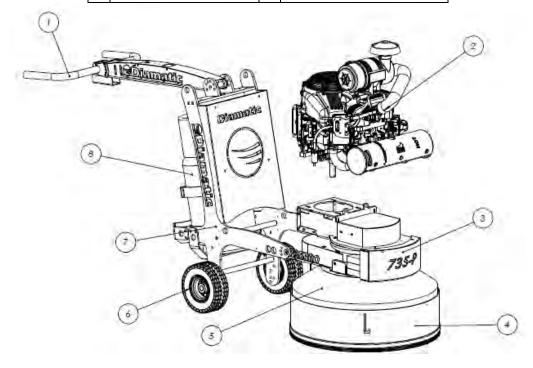
This machine is designed for industrial use by professionals. Only authorized and trained personnel may operate this machine. This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Diamatic USA offers a course on the use of the machine in order to make the operating and maintenance personnel familiar with all elements of the machine.



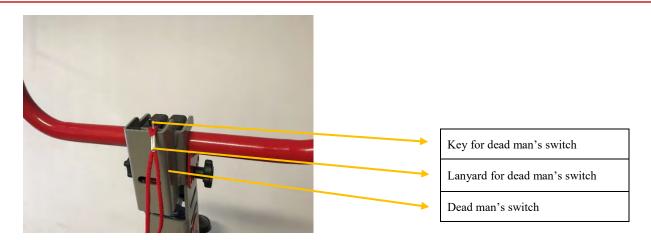
2. Machine Description

The BMG-735PRO-P is an Propane driven planetary grinding machine. This is a three-headed grinding machine for leveling and polishing of indoor floors. The 3 planetary rotating discs are Ø 240 mm. It can be used for dry and wet applications. The BMG-735PRO-P can be used on almost any floor to plane, to make ready for coatings, or to remove coatings or glue residues. The machine may not be used without an adequate dust extraction system. A specially designed Diamatic dust collection system ensures dust-free operation of the machine and clean air at the workspace. This machine may not be used on wood.

1	Steering Handle	5	Dust Shroud
2	Engine Package	6	Wheels
3	Weight Distribution System	7	Frame
4	Removable Shroud	8	Propane Tank







3. Accessories

Part	Description
Adaptor Plates	
DIA-SUPERMAG-2	Heavy Duty Quick Change Plate
E10366	Resin Adaptor Full Round
E07240-2	(DIAMAG 780/735 Plates 2 nd generation)
Buffalo Wings	
BFL708320S-2	(18/20 Grit Extra Large Double Seg Soft (Red)) For Hard Concrete
BFL708340S-2	(30/40 Grit Extra Large Double Seg Soft (Red)) For Hard Concrete
BFL708380S-2	(60/80 Grit Extra Large Double Seg Soft (Red)) For Hard Concrete
BFL7083140S-2	(120/140 Grit Extra Large Double Seg Soft (Red)) For Hard Concrete
BFL708320-2	(18/20 Grit Extra Large Double Seg Medium (Green)) For Medium Concrete
BFL708340-2	(30/40 Grit Extra Large Double Seg Medium (Green)) For Medium Concrete
BFL708380-2	(60/80 Grit Extra Large Double Seg Medium (Green)) For Medium Concrete
BFL7083140-2	(120/140 Grit Extra Large Double Seg Medium (Green)) For Medium Concrete
BFL708320H-2	(18/20 Grit Extra Large Double Seg Hard (Blue)) For Soft Concrete
BFL708340H-2	(30/40 Grit Extra Large Double Seg Hard (Blue)) For Soft Concrete
BFL708380H-2	(60/80 Grit Extra Large Double Seg Hard (Blue)) For Soft Concrete
BFL7083140H-2	(120/140 Grit Extra Large Double Seg Hard (Blue)) For Soft Concrete
Poly Crystaline Diamon	ds
BG200995-2	(Wing PCD 1x1)
BG200997-2	(Wing PCD Split 18/20 Grit)
BG200999-2	(Wing PCD ¼ round)
Bush Hammering Tools	
E09119/Set	(Replacement Bush Hammer/Specify set of 9 or 15)
E10240	(Cutter Plate with 5 Bush Hammers-Complete)
E09580	(Cutterplate Only 240mm for 5 tools)
E07240-2	(DIAMAG 780/735 Plates 2 nd generation)
10 SEG Round	
DIA18/20PLUG-S	(18/20 Grit 10 Seg Soft (Red)) For Hard Concrete
DIA30/40PLUG-S	(30/40 Grit 10 Seg Soft (Red)) For Hard Concrete
DIA60/80PLUG-S	(60/80 Grit 10 Seg Soft (Red)) For Hard Concrete
DIA120/150PLUG-S	(120/150 Grit 10 Seg Soft (Red)) For Hard Concrete
DIA18/20PLUG	(18/20 Grit 10 Seg Soft (Green)) For Medium Concrete
DIA30/40PLUG	(30/40 Grit 10 Seg Soft (Green)) For Medium Concrete
DIA60/80PLUG	(60/80 Grit 10 Seg Soft (Green)) For Medium Concrete
<i>DIA120/150PLUG</i>	(120/150 Grit 10 Seg Soft (Green)) For Medium Concrete
DIA18/20PLUG-H	(18/20 Grit 10 Seg Soft (Blue)) For Soft Concrete
DIA30/40PLUG-H	(30/40 Grit 10 Seg Soft (Blue)) For Soft Concrete
DIA60/80PLUG-H	(60/80 Grit 10 Seg Soft (Blue)) For Soft Concrete
DIA120/150PLUG-H	(120/150 Grit 10 Seg Soft (Blue)) For Soft Concrete
Resin Types	
PA-103050	(#0 50 Grit 3" Transitional Diamond)
PA-103100	(#1 100 Grit 3" Transitional Diamond)
DIA3SUPERFLEX50	(50 Grit 3" Superflex Resin)



DIA3SUPERFLEX100	(100 Grit 3" Superflex Resin)
DIA3SUPERFLEX200	(200 Grit 3" Superflex Resin)
DIA3SUPERFLEX400	(400 Grit 3" Superflex Resin)
DIA3SUPERFLEX800	(800 Grit 3" Superflex Resin)
DIA3SUPERFLEX1500	(1500 Grit 3" Superflex Resin)
DIA3SUPERFLEX3000	(3000 Grit 3" Superflex Resin)
DIA3SEMI50	(50 Grit 3" Semi Metal Resin)
DIA3SEMI100	(100 Grit 3" Semi Metal Resin)
DIA3SEMI200	(200 Grit 3" Semi Metal Resin)
DIAITS800100-2	(100 Grit 3" 6mm resin Black)
DIAITS800200-2	(200 Grit 3" 6mm resin Black)
DIAITS800400-2	(400 Grit 3" 6mm resin Black)
DIAITS800800-2	(800 Grit 3" 6mm resin Black)
DIAITS801500-2	(1500 Grit 3" 6mm resin Black)
DIAITS803000-2	(3000 Grit 3" 6mm resin Black)

4. Safety

Warning!

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, explosions and / or serious injuries.



4.1 Emissions and CO safety

The purpose of this document is to provide information on:

- The potential effects of CO exposure;
- The methods to reduce the risk of CO poisoning;
- The methods used to determine the amount of potential exposure to CO produced by equipment.

DANGER: All LPG (Liquid Propane Gas) powered engines, including this engine, produce Carbon Monoxide (CO). It is a **LETHAL POISON** that is a colorless, odorless, tasteless, and non-irritating gas. It is produced by incomplete combustion of carbonaceous material such as propane (LPG).

Failure to provide for proper venting of CO produced during the operation of combustion powered engines may result in SERIOUS INJURY OR DEATH to the operator and those in the contaminated area.

The effects of CO can be experienced at different exposure levels, depending on the health of the individual. Conditions that affect the tolerance of the individual are smoking, age, temperature, humidity, and other conditions.



WARNING: Read and understand The Operators Manual completely before using this machine

This document explains how CO produced can be managed to reduce the risk of carbon monoxide poisoning.

All distributors, owners, and operators should be aware of the potential effects of CO and the methods used to prevent over exposure.

We are dedicated to our customers, their safety, and providing information, services, and products that meet those needs.



Information provided in this document is current as of the date written May 2017



DANGER: It is the owner/operator's responsibility to ensure that the air-exchange system installed in any location where a propane floor care machine is being operated is of sufficient capacity and quality to support the use of such a machine. OSHA and other County, State, or Federal Agencies publish guidelines on this subject that are usually most readily found in the possession of the respective owners and/or parent companies of any location or chain of locations. Failure on the part of the owner/operator to ensure that a propane floor care machine can be operated safely in a given location may lead to injury, sickness or even loss of life.



5. Document Overview

The information provided in the following overview has been condensed to provide the reader with a summary of the material presented.

Potential Effects of CO Exposure

- Work place/industry guidelines for CO exposure limits vary substantially from region to region (OSHA) Permissible Exposure Limit (PEL) for CO is 50 ppm, as an 8-hour time weighted average.
- **Definition of CO effects** The toxic effects of carbon monoxide in the blood are the result of tissue hypoxia (lack of oxygen). The severity depends on the state of activity of the individual and his tissue oxygen needs.

Methods to Reduce the Risks of CO Poisoning

- Air Exchange and CO Diffusion CO does not mix with air on its own. Air currents can "stir" the CO and dilute the concentration values by mixing it with the available air. When using equipment over a large area in a short time "stirring" occurs as you walk.
- **Application Considerations** (Burnishing versus Stripping) When activity is concentrated to a smaller area as in a stripping application, air "stirring" must be forced by the use of fans to reduce the risk of high concentrations of CO.
- **Air Quality Monitoring** Deployment of a monitor/detector is essential for the safe operation of any equipment that has the potential to produce CO.
- Room Size and Time Estimations The concentration and volume of CO production, the size of the area and the amount of air exchange are factors involved with determining safe time limits for operation in a specific room size.
- Maintenance of Equipment LPG engines are dependent on engine tune up, and air filter replacement. CO concentration (production) skyrockets when the air to fuel ratio becomes fuel rich. Follow the recommended Maintenance Schedule for the engine.
- Safety Equipment Available. Automated fuel to air ratio monitoring and regulation providing an optimum combustion, three-way type catalytic converter to scrub CO, Hydro Carbons (HC), and Nitrous Oxide (NOx) from the engine exhaust providing the lowest possible emissions, high cubic feet per minute (CFM) fans (forced air mixing), and digital combustion analyzers for tail pipe emissions monitoring.

6. Engine Emissions and CO Safety

Potential Effects of CO Exposure

- · Work place/industry guidelines for CO exposure limits
- · Definition of CO effects

Work place/industry guidelines for CO exposure limits

Limits for permissible exposure to CO vary substantially from region to region. City, State, and Industry requirements should be consulted prior to use of any equipment.

The current Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) for CO is 50 ppm, as an 8-hour time weighted average (TWA). This is computed by making measurements at intervals over 8 hours, then adding the sums of the concentrations and the intervals, and dividing by 8 hours. For example:

Time	Interval		PPM	
8:00-9:00	1 HR		100	
9:00-10:00	1 HR		25	
10:00-11:00	1 HR		25	
11:00-12:00	1 HR		50	
12:00-1:00	1 HR		50	400ppm/8HR=50ppm TWA
1:00-2:00	1 HR		50	11
2:00-3:00	1 HR		50	
3:00-4:00	1 HR		50	
Time intervals =	8 HR	ppm =	400	

The current National Institute for Occupational Health and Safety (NIOSH), immediately dangerous to life and health concentration (IDLH) recommended level for CO is 1,200 ppm. NIOSH defines the IDLH exposure level as the concentration that could result in irreversible health effects or death, or prevent escape from the contaminated environment within 30 minutes.

Definition of CO Effects

The toxic effects of carbon monoxide in the blood are the result of tissue hypoxia (lack of oxygen). carbon monoxide combines with hemoglobin to form carboxyhemoglobin. Since CO and oxygen react with the same group in the hemoglobin molecule, carboxyhemoglobin is incapable of carrying Oxygen. The affinity of hemoglobin for CO is 200 to 240 times greater than for oxygen. The extent of saturation of hemoglobin with CO depends on the concentration of the gas, the quantity of inspired air and on the time of exposure. The severity depends on the state of activity of the individual and his tissue oxygen needs.

According to Harrison's Principles of Internal Medicine 7th edition, no symptoms will develop at a concentration of 0.01% CO (100ppm) in inspired air, since this will not raise blood saturation above 10 %. Exposure to 0.05% (500ppm) for 1 hour during light activity will produce a blood concentration of 20% carboxyhemoglobin and result in a mild or throbbing headache. Greater activity or longer exposure causes a blood saturation of 30 to 50 %. At this point head ache, irritability, confusion, dizziness, visual disturbance, nausea, vomiting, and fainting can be experienced. Exposure for one hour to concentrations of 0.1% (1000ppm) in inspired air the blood will contain 50 to 80% carboxyhemoglobin which results in coma, convulsions, respiratory failure and death. On inhalation of high concentrations of CO, saturation of the blood proceeds so rapidly that unconsciousness may occur suddenly without warning.

Methods to Reduce the Risks of CO Poisoning

- Air Exchange and CO Diffusion
- Application Considerations (Burnishing versus Stripping)
- Air Quality Monitoring
- Room Size and Time Estimations
- Maintenance of Equipment
- Safety Equipment Available

Air Exchange and CO Diffusion

The most reliable method to prevent CO Poisoning is to ensure all the CO produced is vented outside. With wood stoves or gas heaters this is performed with ductwork that carries the exhaust and CO outside. Non-stationary combustion type equipment must be used in such a way that CO is not allowed to rise to a harmful or dangerous level.

CO does not readily dissipate or mix with air on its own. Air currents can "stir" the CO and dilute the concentration or ppm values by mixing it with the available air. When using equipment over a large area in a short time "stirring" occurs as you walk, or to say it another way, your Effective Operating Zone is large. When activity is concentrated to a smaller area as in a stripping application, the Effective Operating Zone is small, and "stirring" must be forced by the use of fans to increase the Effective Operating Zone and reduce high concentrations of CO.

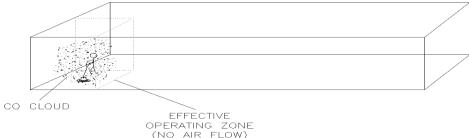
Air exchange rates (air exchange is defined as the exhausting of internal air to the external atmosphere), the size of the Effective Operating Zone, amount of CO produced, level of human activity, and the duration of exposure are all factors in the determination of the production of carboxyhemoglobin and the amount of CO blood saturation.

Application considerations (Burnishing versus Stripping)

When using equipment over a large area in a short time, as in most burnishing applications, your Effective Operating Zone is large. When activity is concentrated to a smaller area as in stripping applications, the Effective Operating Zone is small and stirring or CO mixing MUST be forced by the use of fans to increase the Effective Operating Zone and reduce high concentrations of CO.

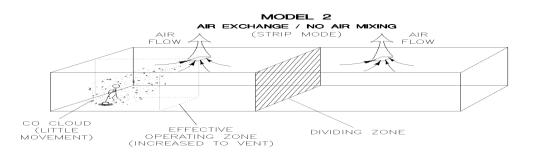
Caution: air mixing in itself may not be sufficient to reduce CO to a safe level. The Effective Operating Zone can be defined as the area covered in a given time.



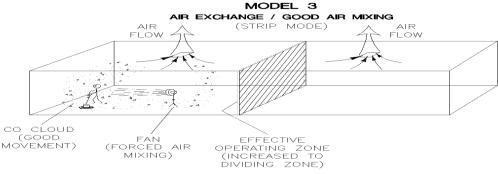


Stripping is quite a different type of operation than burnishing, and carries with it substantially more hazards, as stripping is a low movement operation compared to burnishing (less floor space for the same time). As shown in Model 1, the CO concentrations rise much quicker as the "Effective Operating Zone" is a very small area compared to the total building size.





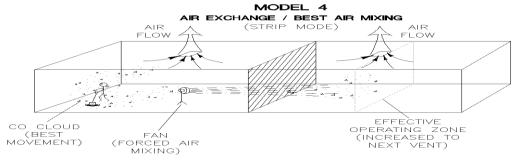
Notice the CO concentration and the Effective Operating Zone with air exchange. The CO cloud is still concentrated in a small area. Note the "Dividing Zone" shown above, this is the line where airflow changes direction. In Model 2, air changes are cut in ½ as little or no CO crosses the Dividing Zone to be exhausted.



Notice the CO concentration and the Effective Operating Zone (Expanded to the Dividing zone) with air ex-change and forced air mixing. The CO cloud is still concentrated on one side of the Dividing zone. Note the "Dividing Zone" shown above, this is the line where airflow changes direction. In Model 3, air changes are cut in

½ as little or no CO crosses the Dividing Zone to be exhausted.

Notice the CO concentration and the Effective Operating Zone (Expanded through the Dividing zone to the second vent) with air exchange and forced air mixing through the dividing Zone. The CO cloud is diluted with the available air in the



building. Note the "Dividing Zone" shown above, this is the line where airflow changes direction. In Model 4, air changes are full as forced air mixing has moved and mixed the CO between all air zones.



Air Quality Monitoring

Warning: Deployment of a monitor/detector is essential for the safe operation of any equipment that has the potential to produce CO. CO sensors/detectors became available on the mass market around 1978. At present several brands sell in the fifty-dollar range. The main differences between the technologies involved are battery or electric and Semiconductor or Biomimetic types. Detectors for carbon monoxide (CO) are manufactured and marketed for use in either the home or occupational industrial settings. The detectors for home use are devices that will sound an alarm before CO concentrations in the home become hazardous. There is an Underwriters Laboratories, Inc., performance standard (UL 2034) for residential CO detectors. Detectors currently available on the market are battery-powered, plug- in, or hard-wired. Some models incorporate a visual display of the parts per million (ppm) concentration of CO present in the home. For more information on CO detectors for home use, call the Consumer Product Safety Commission Hotline at 1-800-638-2772. CO detectors for use in residential settings are not designed for use in typical workplace settings. Monitoring requirements in an occupational setting are different from monitoring requirements in the home. In the workplace, it is frequently necessary to monitor a worker's exposure to carbon monoxide over an entire work shift and determine the time-weighted average (TWA) concentration of the exposure. It may also be necessary to have carbon monoxide monitors with alarm capabilities in the workplace. The direct-reading instruments are frequently equipped with audio and/or visual alarms and may be used for area and/or personal exposure monitoring. Some have microprocessors and memory for storing CO concentration readings taken during the day. It is significant to note that some of the devices mentioned for workplace CO monitoring are not capable of monitoring TWAs, and not all are equipped with alarms. The appropriate monitor must be chosen on an application-by-application basis. For more information on the availability of workplace CO monitors or their application, call the National Institute for Occupational Safety and Health at 1-800-35- NIOSH (1-800-356-4674).

Room Size and Time Estimations for Parts Per Million (PPM) CO

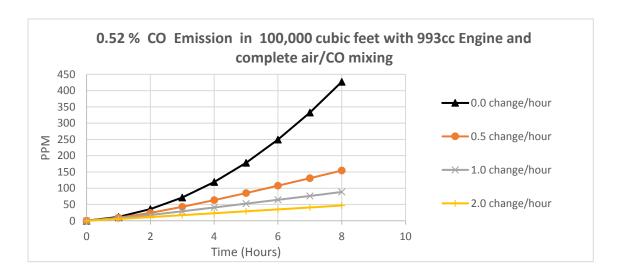
The fundamental factors in area CO levels involve: The concentration and volume of CO production; The size of the area;

The amount of *air exchange if any; The amount of time CO is produced.

Multiplying length, width, and height will determine the volume or cubic feet in a room. So, an empty building 100ft by 100ft with a 10ft ceiling would be 100,000 cubic ft. in size. Any material that is in the room and takes space would reduce the cubic feet.

*Air exchange is defined as the exhausting of internal air to the external atmosphere.

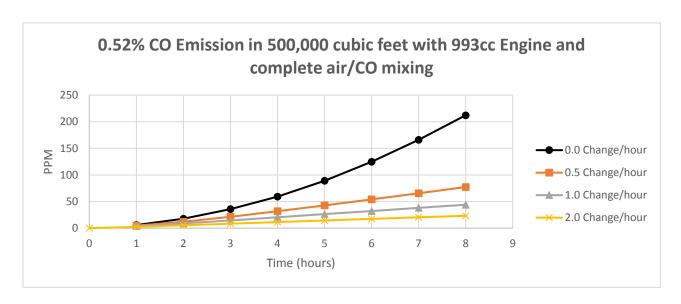
The graph below depicts the relationships of air exchange to time and CO ppm with cubic feet area and percent CO emissions remaining constant





	8 Hour Ti	ne Weig	ghted A	verage	(OSHA N	Method)			
0.52% CO 100,000cf	Hours Operation	1	2	3	4	5	6	7	8
TWA (OSHA Method)	0 change/hr	11.787	35.707	71.413	118.907	178.187	249.253	332.453	427.093
	1/2 change/hr	9.36	24.267	42.987	63.44	85.28	107.813	131.04	154.267
	1 change/hr	7.627	17.68	29.12	40.907	52.693	64.48	76.267	88.4
	2 change/hr	5.2	11.093	16.987	22.88	28.773	34.667	40.56	46.8

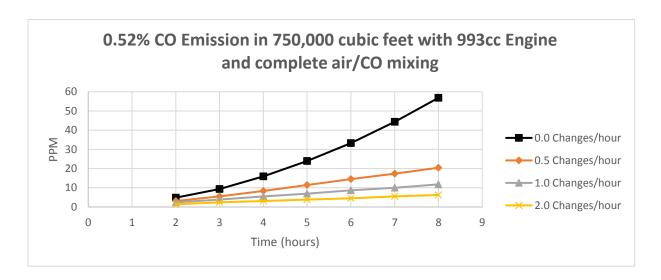
Based on the CO production rates shown above the TWA would be exceeded in a 100 x 100 x 10 foot (empty) space after 4 hours with 1 air changes per hour. (Assumes no additional CO exposure during 8-hour time period.



	8 Hour Time Weighted Average (OSHA Method)								
0.52% CO 500,000cf	Hours Operation	1	2	3	4	5	6	7	8
TWA (OSHA Method)	0 change/hr	5.893	17.68	35.707	59.28	89.093	124.8	166.053	212.16
	1/2 change/hr	4.853	12.133	21.493	31.893	42.64	54.08	65.52	77.307
	1 change/hr	3.813	9.013	14.56	20.453	26.347	32.24	38.133	44.027
	2 change/hr	2.427	5.547	8.32	11.44	14.56	17.333	20.453	23.227

Based on the CO production rates shown above the TWA would be exceeded in a 100 x 500 x 10 foot (empty) space after 5 hours with 1/2 air changes per hour. (Assumes no additional CO exposure during 8-hour time period)





The graph above depicts the relationships of air exchange to time and CO ppm with cubic feet area and percent CO emissions remaining constant.

8 H	8 Hour Time Weighted Average (OSHA Method)								
0.52% 750,000cf	Hours Operation	1	2	3	4	5	6	7	8
TWA (OSHA Method)	0 change/hr	1.733	4.853	9.36	15.947	23.92	33.28	44.373	56.853
	1/2 change/hr	1.387	3.12	5.547	8.32	11.44	14.56	17.333	20.453
	1 change/hr	1.04	2.427	3.813	5.547	6.933	8.667	10.053	11.787
	2 change/hr	0.693	1.387	2.427	3.12	3.813	4.507	5.547	6.24

Based on the CO production rates shown above the TWA would not be exceeded in a 100 x 750 x 10 foot (empty) space after 8 hours with 0 air changes per hour. (Assumes no additional CO exposure during 8-hourtime period)

Maintenance of Equipment

Warning: The proper maintenance of equipment is vital to safe operation. LPG engines are dependent on engine tune up, and air filter replacement. CO concentration (production) skyrockets when the air to fuel ratio becomes fuel rich. Follow the recommended Maintenance Schedule for the engine found in the Engine Operator/Owner Manual as well as the Maintenance and Adjustments schedule found in the Propane Floor Equipment Operator's Manual that were supplied with the equipment.

CO Safety Equipment Available

- Automated emissions monitoring will shut down the engine when high emissions are detected.
- Three-way type catalytic converter to scrub CO, Hydro Carbons (HC), and Nitrous Oxide (NOx) from the engine exhaust providing the lowest possible emissions
- High cubic feet per minute (CFM) fans (forced air mixing)
- Digital combustion analyzers for tail pipe emissions monitoring

6.1 Work Area Safety

- a) Do not use the machine in rain, damp or wet locations.
- b) Avoid dangerous environments: do not work in the presence of explosive atmospheres, in the presence of flammable liquids, gases or dust. Remove materials or debris that may be ignited bysparks.
- c) In some cases, sparks could be created by grinding.
- d) The surface to be treated must be clean, make sure to remove all stones, screwsetc...
 - Any stones, screws, bolts, pieces of wire etc. could cause serious damage if it gets inside the machine!
- e) Make sure there is enough ambient light on the work area. Cluttered or dark areas inviteaccidents.
- f) Do not use on wood.
- g) Keep children and bystanders away while operating the machine. They are likely not to foresee the potential dangers of the machine. Distractions could cause you to lose control of the machine.
- h) Persons who are not operating the machine must not be permitted to stay in the surrounding area of at least 5 meters from the machine.
- i) Never use the machine when the surface is not clear and if there is a risk of stumbling ortripping.
- j) Make sure that there are no cables or hoses in the driving direction of the machine.
- k) Make sure that there is nothing standing or situated on the surface to betreated.
- 1) Make sure the machine can travel over all inequalities on the surface, small inequalities like weld seams or floor joints are no barriers for the machine.
- m) Never stay in the rain with the machine.
- n) Check if there are any obstacles that can snag the cables when the machine is moving.
- Remove reinforcing steel or other objects protruding from the surface in order to prevent damage to the compounds or diamond discs.
- p) Warning!

Make sure that the surface to be treated does not contain dangerous materials such as:

- combustible or explosive dusts or substances.
- carcinogenic or pathogenic substances.
- q) Secure the work area around the machine in public areas providing an adequate safety distance from the machine. Use a red and white safety chain and danger sign to enclose the work area.

6.2 Personal Safety

- a) Always wear Personal Protective Equipment while working with themachine.
 - -Dust mask class FFP2 or higher
 - -Ear protection
 - -Safety glasses with lateral protection
 - -Protecting gloves
 - -Safety shoes
- b) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.
- c) Stay alert, watch what you are doing and use common sense when operating themachine.
- d) All persons in the proximity of the machine, must wear eye/ear protection and safetyshoes.
- e) Always seek professional medical attention immediately in case of injury.

6.3 Machine Safety General

- a) Safety functions and operating functions must work correct.
- b) No loose bolts and nuts permitted.
- c) Never operate machine without the guards and/or safety devices in place.
- d) Never change anything on the safety devices on the machine!
- e) The machine, specially the handle grips must be free of fats/oils and have to bedry.
- f) If the length of the brushes is, due to wear, less than 5mm or they are extremely deformed, the brushes have to be replaced. Check the Service Manual for the ordernumbers.
- g) All repair work has to be done by qualified Diamatic personnel, this guarantees a safe and reliable machine.
- h) **Always use original Diamatic spare parts, grinding disks, grinding wings and polishing pads.** This will ensure the best performance. Only original Diamatic parts meet the factory specifications and quality. Otherwise Diamatic BV cannot guarantee the safety of themachine.
 - The part numbers can be found in the Service Manual.
- 1) Check the rotating direction of the motor. The correct direction is given with an arrow on the housing of the motor.
- j) If safety-critical changes occur to the machine or its working method, the machine must be shut down immediately! The cause of the fault must be established, and rectified.
- k) In the event of **operational malfunctions** the machine must be **shut down immediately** and secured!
- 1) Do not use the unit when it is damaged.
- m) Do not **open** or **remove protective guards** while driving gears are running.

6.4 Maintenance Safety

- a) Press the e-stop and turn the ignition key off before starting inspections and repairing on the machine.
- b) Wait for standstill of all drives before any inspections, adjustments and/or maintenance work is started.
- c) Block the machine in a stable position before doing any maintenance work.
- d) Failures due to inadequate or incorrect maintenance may generate very **high repair costs** and long standstill periods of the machine. **Regular** maintenance therefore is imperative.
- e) Operational safety and service life of the machine depends, among other things, on proper maintenance. Prevent premature wear by keeping the machine as dust free as possible. Clean the machine regularly with a dust collector and non-aggressive materials, especially the
 - engine. Never use a high-pressure water cleaner to clean the machine.
- f) It is advisable to stock all spare parts or wear parts that cannot be supplied quickly. As a rule, production standstill periods are more expensive than the cost for the corresponding sparepart.
- g) Do not use any **aggressive** cleaning materials!
- h) Use lint-free cleaning cloths!
- i) For the electrical parts, use a tool that is insulated against voltages

6.5 Safety Regarding Dust Collectors

- a) If equipped with vacuum shroud, always use a Diamatic dust collector (when working dry) to ensure a dust-free operation of themachine and clean air at the workspace. Also, the airflow helps to cool the machine and preventsoverheating.
- b) Read the operating instructions of the dust collector before using it.
- C) The dust container/bag of the dust collector must be emptied regularly. Comply with the local waste treatment regulations considering the removed material.
- d) The dust hose must be connected properly with a hose clamp and industrial tape.
- e) The dust hose must be undamaged and free of obstructions.
- f) Always switch on the dust collector first!



6.6 Grinding Safety

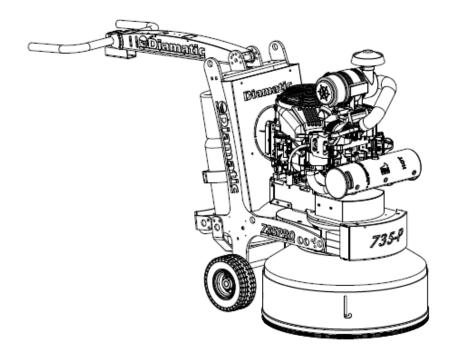
- a) The machine contains rotating parts, which are protected with a sliding cover. Always leave the burnishing pad on the floor while the engine is turning.
- b) The flexible coupling can become worn out with use, because of this there can be higher vibrations than normal. Check the flexi-drive coupling for deformation and damage before everyuse.
- C) Do not let the machine rest on the burnishing pad or coupler when it is not in use, this willcause deformation to the flexi-drive coupling.
- d) Make sure the brush seals are in good condition, this is to avoid dust.
- e) Make sure the burnishing pad is not damaged or worn out.
- f) Always pull out the main plug before changing the burnishing pad.
- g) When mounting or removing tooling; lay down the machine so it is resting on the frame stops. Make sure the machine will not fall back down. A second person can hold the handle down, to make sure it will not fall back down.
- When changing the tooling, you should wear Personal Protective Equipment like a dust mask, safety goggles, and gloves.
- 1) Caution! The tooling will heat up during use, don't risk getting burned, always wear protective gloves when handling them.
- j) Be careful when raising and lowering the machine, dropping or slamming the machine can damage the electrical parts.
- k) Make sure the floating shroud is in transport mode when you transport the machine.

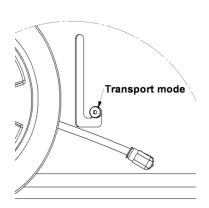
6.7 Transport Safety

- a) Be aware of your surroundings and machine operating level. Do not use on a side hill, do not run on steep incline, this could cause machine to tip over.
- b) The weight of the BMG-735P is 890 lbs. Use a crane or lift when transporting the machine, use the lifting eyes of the machine.
- c) When transporting the machine do so in such a manner that damage due to the effects of the use of force or incorrect loading and unloading is avoided.
- d) Always drive backwards when driving up to a ramp or grade, and forwards when driving of the ramp.
- e) Chock wheels for transport and keep control handle in neutral position.
- f) Don't leave the machine unsecured on jobsites.
- g) Always park the machine on a flat horizontal and level surface.
- h) If equipped, make sure the floating shroud is in transport mode when you transport the machine.
- i) Store the cleaned and dry machine in a humid free room. Protect the engine from moisture, heat and dust
- j) Never use the machine for lifting or transporting persons or items.



- It is not allowed to lift the machine without appropriate appliances as a lift or crane, lift themachine with proper straps or chain on the lifting eyes as showed in imagine mentioned below.
- Make sure the floating shroud is in transport mode when you transport the machine





7. Signs on the Machine

The following stickers are placed on the machine. Meanings of these symbols are:



• Wear a dust mask class FFP2 or higher



· Ear protection is obliged



· Safety glasses with lateral protection are obliged



• CE-mark on this machine



Wear protecting gloves



Safety shoes obliged



• Consult the manual before operating the machine



• Danger, disconnect electrical supply before working on this equipment



Carbon Monoxide Warning

Personnel must tie back long hair and not wear loose clothing or jewelry including rings.

8. Initial Operations

Before using the machine, it is important to inspect the machine.

It is not permitted to use the machine if the machine safety is not according the checkpoints below. Before switching on the machine make sure that no-one can be endangered when the machine starts up!

8.1 Checkpoints of Electrical Safety

- Check all electrical connections for tightness.
- Check wiring harness for cuts and abrasions.
- No damage is permitted for wiring harness.
- Check battery hold down strap is secure. Tighten if necessary

8.2 Checkpoints of Machine Safety

- Safety functions and operating functions must work correct.
- Check the tooling for damages and/or wear.
- Check all screws and other fasteners for tightness. No loose bolts and/or nuts are permitted.
- Check the electrical components, cables and connections for wear and/ordamages.
- If equipped with dust shroud, dust hose connection must be reliable: use hose clamps and industrial tape.
- Dust hoses must be undamaged and free of obstructions

8.3 Manual Moving of the Machine

To move the machine, press down the handgrips of the machine until the front part rises from the ground. It can now be pushed around on its wheels.

WARNING! Always make sure all rotating parts have come to a complete standstill before moving around the machine.



8.4 DIAMAG/SUPERMAG

When using DIAMAG or SUPERMAG adapter plates, you can replace the diamond wings without using any tools! Because of the specially designed heat resistant magnets and fixation pins, the diamond tools are fixed onto the plate, but can still very simply be replaced by hand.

Contact your Diamatic distributor for more information or check www.diamaticusa.com

8.5 Changing the Wings/Discs

Warning! Always wear Personal Protective Equipment!

The dust can be hazardous to the health! Wear a dust mask!

The wings can get hot! Don't risk burning your hands! Wear protective gloves!

- Depress E-stop and make sure ignition is off and the key removed.
- Always wear a dust mask of at least class FFP2 and gloves.
- Use the vacuum cleaner in order to work as dust free as possible



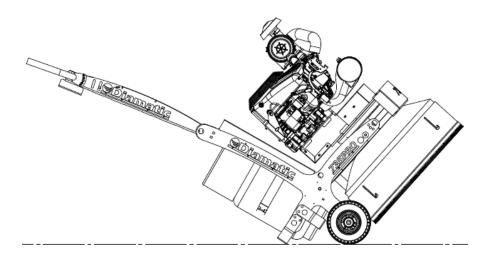






Make sure all moving parts of the machine have come to a complete standstill before changing the wings.

Correct position of the machine for changing tools.













Remove the key of the dead man's switch, press the red stop button.

This is to prevent unintentional start-up of the machine.

Before you tilt the machine back, make sure the dust hose has been removed and cannot get damaged when you tilt the machine back.

Take the locking pin out.

Put the steering handle in its most upright position. Put the locking pin back in. Use two locking pins when steering handle is in its most upright position.

WARNING! Incorrect Position

This is an unstable position of the machine. Danger of tipping if the handle is not raised.

Correct Position:

Tilt the machine back and lay down the machine so it is laying on the metal support underneath the electrical box. Make sure the machine will not fall back down. A second person can hold the handle down, to make sure the machine will not fall back down.

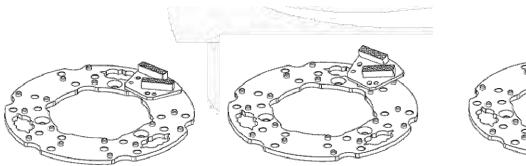
If there is a risk of damaging the floor-coating when tilting the machine back, you can place a piece of cloth, a sheet or something similar underneath the metal supports. WARNING! Danger of injury.

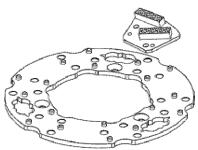
Do not let the machine rest on thick wedges or thick wooden beams. This can cause the machine to fall back down!6



8.6 Removing the Diamond Wings

- Read chapter 3 Safety first, and wear personal protective equipment.
- Lay down the machine so it is laying on the metal support underneath the electrical box. Make sure the machine will not fall back down. A second person can hold the handle down, to make sure the machine will not fall back down.
- Remove all the dust using the vacuum cleaner.
- Grab the diamond wings at the place where the gap in the Diamag plate is and roll the wing over so the wing can be taken off of the plate. (See picture below)





8.7 Mounting the Diamond Wings

- Read chapters 4-6 Safety first, and wear personal protective equipment.
- Lay down the machine so it is laying on the metal support underneath the electrical box. Make sure the machine will not fall back down. A second person can hold the handle down, to make sure the machine will not fall back down.
- Clean the Diamag or Supermag plates using the vacuum cleaner so the diamond wings will connect well to the plate. Dirt between the plates and wings can be the cause of uneven grinding results.
- Place the diamond wings one by one on the Diamag or Supermagplates.

8.8 Before Start-up

Before start-up the operating personnel must be familiar with the safety regulations given in this manual.

- Put the grinding machine and the dust collector on to the surface to be processed.
- Fit the appropriate diamond grinding wings that are required for this particular process. Please read **chapter 8.7** of this manual.
- Connect the machine and the dust collector to the electricity supply point, these electric supply points should be protected and equipped with an earth connection and earth leakage circuit breaker. In case of doubt ask the local safety officer.
- Check the dust hose for damages and obstructions. Make sure the dust bin of the dust collector unit is empty. Observe the local regulations regarding waste disposal.
- Connect the grinding machine and the dust collector unit with the flexible dust hose. Use hose clamps at the
 connections.
- Before grinding, clean the surface to be treated. There should not be any trash, stones, cloths, or oil on the surface. Remove all objects from the surface that can damage the machine. Remove reinforcing steel or other objects protruding from the surface in order to prevent damage to the machine, the seals or diamondwings.



9. Operating

When operating the BMG-735PRO-P, the following additional safety instructions must be followed closely.

9.1 Starting the machine on the machine

- Turn on the dust collector before starting the BMG-735-P and connect the dust hose to the machine.
- Install propane hose fitting to **VAPOR** tank securely.
- Rotate tank valve counter clockwise to turn on fuel.
- Ensure safety key is installed in deadman control and attach lanyard to your wrist or belt loop.
- Stand behind the machine and hold the handle tight.
- Rotate and release E-stop button (3)
- Turn the ignition switch (4) clockwise one position. The emission warning light (2) will illuminate red.
- Once emission warning light (2) turns green, turn ignition switch clockwise to start engine.
- Release the lock on throttle cable (5). Depress red button Pull throttle cable upward and rotate lock clockwise.
- Adjust rpm. 2800-3600 RPM on tach/hr meter (1) by rotating throttle cable (5) clockwise to decrease RPM and counter clockwise to increase RPM
- Do not go below 2800 RPM or above 3600 RPM equipment damage will result.

9.2 Turning off the Machine

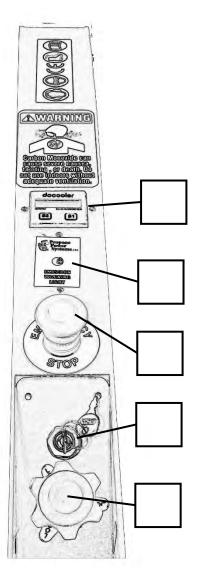
- Depress red button push throttle cable (5) until it stops
- Let engine idle
- Rotate propane tank clockwise to turn of fuel.
- Let the engine run until it runs out of fuel
- Turn ignition switch (4) off
- Depress E-Stop (3)
- Shut down the dust collector.
- To re-start engine follow steps above in section 9.1

9.4 Operating during grinding

This machine will always have an even grinding result because of the planetary system. However, it is advised to keep the machine constantly in movement for an optimum grinding result.

For soft floors, it is recommended to work on high disc speed, for hard floors it is recommended to grind with low speed of the tools

Contact our experts at Diamatic for the correct application of the different tools and their corresponding working speeds.



2

5



9.5 Wet grinding

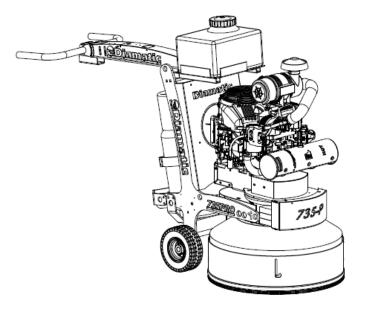
The BMG-735 can also be used for wet grinding with the supplied water plug or optional water tank pictured.

- -Connect the machine to the water supply(1).
- -Always use a clean water supply, dirty water could clog the system. Make sure the water supply is turned off before connecting or disconnecting to the machine.
- -Be careful, the work floor can get slippery when grinding wet.
- -Keep all electrical cables and connections away from water

IMPORTANT NOTE:

Do not use a dust collector when grinding wet!

Clean the brush-sealing directly after wet grinding. It will be very hard to clean the brush-sealing when the dust-water mixture has dried up and hardened.







10. Tool Tips for BMG-735P

10.1 Start Up

- Wear correct PPE including; steel too boots, CO monitor, gloves, eye and hearing protection.
- No loose-fitting clothing or Jewelry. Make sure work area is well ventilated.
- Check engine oil. Add if below the fill line. Do not overfill.
- With safety key removed and E-stop engaged. Tilt machine back and install diamond tooling. Make sure mating surfaces are clean of dirt and debris. Once installed, slowly lower machine back to work surface.
- Install properly filled <u>vapor</u> propane tank and ensure hose coupler is secure. 99% of all propane related issues are from improperly/overfilled tanks.
- Turn tank valve counter clockwise to open valve and supply fuel.
- Ensure safety key is installed in deadman control and attach lanyard to your wrist or belt loop.
- Ensure Ignition switch is in the off position, the E-stop is disengaged and the throttle is pushed all the way down to idle position.
- Turn the ignition switch clockwise one click to the run position. Wait for red emission control light to go out for Kawasaki engine or turn green for Briggs and Stratton engine.
- Turn the ignition clockwise to engage the starter. Once engine fires and runs let go of ignition switch. Let engine idle for 1 minute. Engine will idle at 1480-1520RPM when warm
- The BMG-735P is equipped with a heavy duty centrifugal clutch. To start grinding, turn the throttle lock counter clockwise. With one hand on the operator's handle, use your other hand to depress the red button in the center of the throttle cable and pull up on the black knob simultaneously. Pull the throttle as far as you can and let go of red button. Turn throttle lock clockwise to secure throttle. You can now fine tune the rpm by rotating the adjustment knob. Counter clockwise will raise the rpm and clockwise will decrease the rpm. DO NOT RUN BELOW 2800RPM CLUTCH DAMAGE WILL RESULT. DO NOT RUN ABOVE 3550RPM ENGINE DAMAGE WILL RESULT.

10.2 Shut Down

- Turn throttle lock counter clockwise.
- Depress red button and push throttle cable down until is stops at idle (1480-1520 rpm).
- Turn the propane bottle valve clockwise and shut off fuel. Let the engine run out of fuel and shut down. Please note the exhaust and engine will have hot surfaces.
- Depress E-Stop switch and turn ignition switch to off position.
- To re- start engine, follow steps above in the startup section.

11. Maintenance

Pay attention to Chapter 3 "Safety" during maintenance and repair works.

Failures due to inadequate or incorrect maintenance may generate very **high repair costs** and long standstill periods of the machine. **Regular** maintenance therefore is imperative.

Operational safety and service life of the blast machine depends, among other things, on proper maintenance.

The following table shows recommendations about time, inspection and maintenance

Operating hours/ time period	Inspection points, maintenance instructions
12 h after repairing	Check all accessible screw connections for tight seat.
	Check if all safety devices are working adequate. Check the
	brush sealing for damages and/or wear.
D-il1	Check the hose to the dust collector for damage and obstructions. Clean the
Daily and prior to starting work	electrical box inside and outside.
starting work	Check the electric connections for sediments of dirt or foreign bodies. Check the
	electric motors for dirt and other contaminants.
	Check the conditions of the wings /discs.
Weekly	Check the buffers of the diamond plates.
Every 3 months	Clean the complete machine with a damp cloth.
Annually	Full overhaul and cleaning of the complete machine.

Pay attention to unusual noises or strong vibrations. Check for the cause of every big change. Call a technician if you have doubts about the cause or when a repair without a technician seems not possible without damages. Only use genuine Diamatic spare parts.

Due to different working conditions, it can't be foreseen how frequently inspections for wear check's, inspection, maintenance and repair works ought to be carried out. Prepare a suitable inspection schedule considering your own working conditions and experience. However, a full overhaul must be carried out at least once a year.

Our specialists will be happy to assist you with more advice.

Prior to any repair works on the machine and its drives, secure the machine against unintentional switching on.

Disconnect the power supply.

Follow additional operating and maintenance of OEM if included during your service and maintenance work.



Further is advised:

Store the cleaned and dry machine in a dry and humid free room. Protect the electrical motor from moisture, heat, dust and shocks.

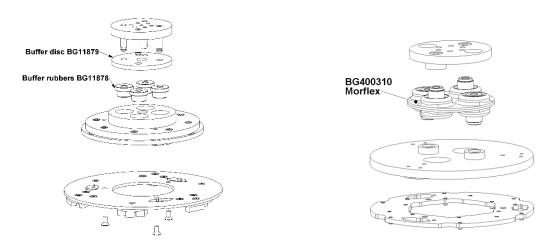
Work only with original Diamatic parts.

Dust in the electrical box can damage the frequency inverter; due to this the electrical box has to be cleaned every day from inside and outside.

Clean the fans and filters from the box with compressed air and a vacuum cleaner.

Check regularly to see if the diamond wings are in good condition. Replace immediately when these are damaged or worn

Check weekly if the diamond plates doesn't have too much space in the buffers. If the diamond plate has too much space, replace the buffers.



Prevent premature wear by keeping the machine as dust free as possible, for these reasons clean the machine regularly with a vacuum cleaner.

- Clean the machine every day with air and non-aggressive materials.
- Never use a high-pressure water cleaner to clean themachine.
- Store the cleaned and dry machine in a dry and humid free room. Protect the electrical motor from moisture, heat, dust and shocks.

All repair work must to be done by qualified Diamatic personnel, this to guarantee a safe and reliable machine.

Any guarantee on the machine is automatically void when:

- Non-original Diamatic parts and or diamond discs have been used
- Repair work is not done by qualified Diamatic personnel
- Changes, add items, or conversions are undertaken without the written permission from Diamatic BV.



12. Troubleshooting

Fault	Possible cause	Remedy
Excessive vibration or/and Unusual noises	Imbalance due to worn or broken grinding tools.	Replace all worn or broken parts.
	worn out flexible couplers	Replace all worn or broken parts.
	Defective bearing.	Check the bearing on the axle drive shaft and replace if necessary.
Reduced or no Grinding performance	Diamond Tooling has reached the maximum limit	Replace the tooling.
	Inappropriate Diamond Tooling for the application.	Replace the proper tooling with appropriate grinding tools for the surface to be treated.
Engine does not crank or turn over	Dead battery	Check the voltage at battery. Replace if necessary
	E-stop is engaged	Rotate E-Stop switch and pull to disengage.
	Defective ignition switch	Test switch with meter. Replace if necessary.
Engine cranks but will not start	Out of LP fuel	Check fuel level and fill
	Incorrect tank type.	Verify tank is vertical vapor
	Defective Fuel Lockoff Valve.	Test valve and replace.



13. Technical Data

	735PRO-P	735PRO-PXL			
Engine Size	993сс	993cc			
Fuel Type	Propane	Propane			
Tank Type	33lb Vertical Vapor Style	33lb Vertical Vapor Style			
Length	1980 mm	1980 mm			
Fold in	1110 mm	1110 mm			
Width	735 mm	735 mm			
Height	1180 mm	1180 mm			
Fold in	1260 mm	1260 mm			
Weight machine	890 lbs	890 lbs			
Weight grinding head	596 lbs	596 lbs			
Diamond discs	3x Ø240 mm	3x Ø381 mm			
Work width	700 mm	815 mm			
Rotation speed discs	875 - 1125 min ⁻¹	875 - 1125 min ⁻¹			
Dust hose connection	75 mm Ø	75 mm Ø			
Suitable filter unit	Contact Diamatic, we will	Contact Diamatic, we will assist you with a good advice			



Vibration level measured on a technically comparable machinery:

Declaration in conformance with EN 12096: 1997

 $\begin{array}{lll} \mbox{Hand- arm vibration} & a_{hv} \ 2.9 \ m/s^2 \\ \mbox{Uncertainty} & \mbox{K} \ 0.5 \ m/s^2 \\ \mbox{Grinding surface:} & \mbox{Terrazzo} \end{array}$

Tooling: Polishing pad #1 orange

Measurement in conformance with EN-ISO 20643: 2008 + Amd 1: 2012 Expanded uncertainty K (EN 12096 annex B)

Because the value is above 2,5 m/s², we recommend to use measures to decrease hand-arm vibrations.

Tips for decreasing the exposure to hand- arm vibrations:

-Protect the hands with vibration dampening gloves

E12000 – Anti-vibration gloves

- -Clean the plates before attaching the wings
- -Clean the wings before attaching them to the plates
- -Proper maintenance of the machine

IMPORTANT NOTE:

The indicated values are measured on new machines. Vibration levels will vary in different circumstances. Area influences like open outside or closed inside space, ambient temperature, the surface to be treated, etc. will give different values at all time.

The declared vibration level represents the main applications of the machine. However, if the machine is used with different accessories or poor maintenance, the vibration may differ. The values may be used for a preliminary assessment of exposure.

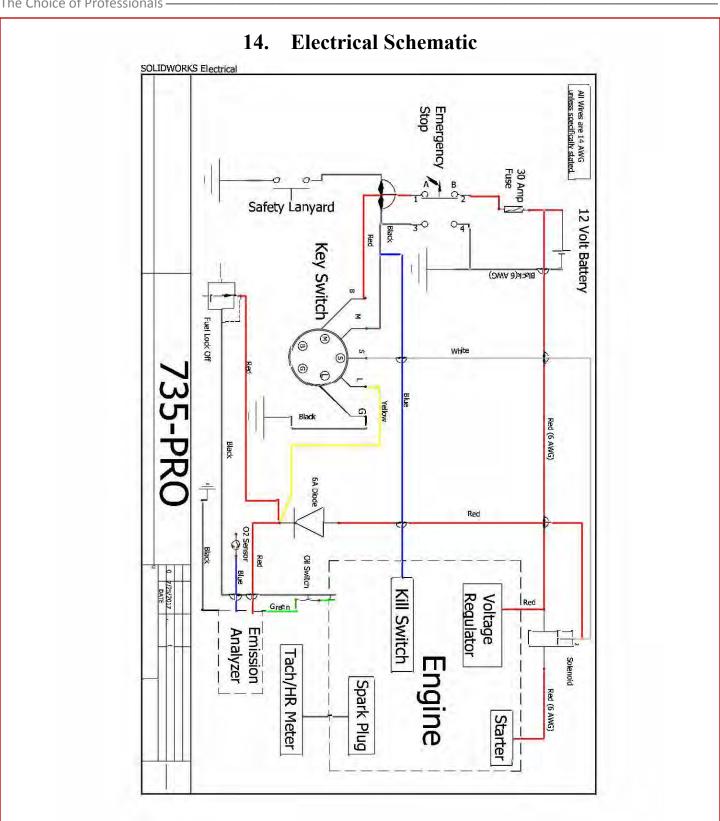
For a precise estimate of the vibration, the times should also be considered during which the machine is switched off or even running, but not actually in use. This may significantly decrease the exposure level over the total working period.

Old equipment contains valuable materials which are valuable for re-processing. **The machine parts must not be thrown away in the normal household waste,** but should be disposed of at a suitable proper collection system, e. g. via your communal disposal location. This way the materials can be re-used in an environmentally responsible manner.

Despite the fact that this guide is made with care, Diamatic takes no liability for errors in the manual and the possible consequences. We are naturally very interested in your findings and additions.

No part of this publication may be reproduced and / or published in print, photocopy, or other form without prior permission by Diamatic.





DIAMATIC®PRODUCT WARRANTY

STANDARD EQUIPMENT PRODUCTS

Diamatic warrants its **DIAMATIC** standard equipment products against defects in material and workmanship under normal and proper use for a period of **2 years** from the date of delivery or, in the case of Rental Fleet Machines, 180 days from the date of assignment to a Rental Fleet. Diamatic makes this warranty only to the buyer who purchases the products directly from Diamatic or its authorized distributor. This warranty does not include expendable parts such as, but not limited to, diamonds, wear parts, couplers, and diamond plates.

The buyer must register the product with the warranty card. This warranty card must be mailed to Diamatic within 45 days after taking delivery of the Diamatic machine to receive full warranty. Any machine not registered under warranty through Diamatic will only receive a 6 month warranty period from the date of delivery.

Warranty Terms and Conditions:

- 1. Diamatic's obligation under this warranty is limited to the replacement or repair, at Diamatic's option, of products and does not include, labor, the cost of transportation, loss of operating time, or normal maintenance services.
- 2. This warranty does not apply to failure occurring as a result of abuse, misuse, negligence, corrosion, erosion, normal wear and tear, alterations or modifications made to products without express written consent of Diamatic.
- 3. The buyer must submit all warranty claims no later than thirty (30) days after buyer becomes aware of the basis for any such claim, or should have become aware of the basis for any such claim in the exercise of reasonable diligence.

To return parts for warranty consideration, please call Diamatic Customer Service at 866-295-5512.

Our customer service representative will obtain the necessary information to complete the Diamatic Returned Merchandise Authorization (RMA) Form. Diamatic will then send the RMA form to the customer authorizing the return of the parts for warranty evaluation.

The parts must be received within sixty (60) days following the RMA origination date or the warranty claim will be denied. Once the parts are received they will be evaluated for warranty.

If the customer cannot wait for the evaluation/replacement of the parts during this process, the customer must issue a new purchase order to Diamatic for the replacement parts before they can be shipped. Once the evaluation process is complete and parts are deemed a valid warranty claim, a credit will be issued against this invoice.

- **4.** The buyer may not return Diamatic products without Diamatic's written authorization to do so.
- **5.** Diamatic reserves the right to inspect and determine the scope of its warranty responsibilities for any returned Diamatic products.
- **6.** Diamatic makes no warranty with respect to accessories it does not manufacture, including but not limited to, engines, motors, batteries, tires and all other parts. See component manufacture warranty.
- **7.** Diamatic reserves the right to make product changes or improvements without prior notice and without undertaking any obligation such changes or improvements on previously sold products.
- **8.** The above warranty conditions can only be altered by Diamatic. Diamatic must confirm alterations in writing for each specific transaction.
- **9.** Diamatic reserves the right to modify this warranty for used or demo products on an individual transaction basis. Diamatic will include warranty modifications on its invoices for used or demo products
- 10. DIAMATIC DOES NOT AUTHORIZE ANY PERSON, REPRESENTATIVE OR SERVICE OR SALES OUTLET TO MAKE ANY WARRANTY DIFFERENT FROM THIS PRODUCT WARRANTY.
- 11. EXCEPT FOR ITS PRODUCT REPAIR OR REPLACEMENT OBLGATIONS DESCRIBED IN THIS PRODUCT WARRANTY, UNDER NO CIRCUMSTANCES SHALL DIAMATIC BE LIABLE TO THE BUYER OR ANY OTHER PERSON FOR ANY DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE DIAMATIC PRODUCT OR FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER, INCLUDING WITHOUT LIMITATIONS, DAMAGES FOR ANY LOSS OF GOODWILL, WORK STOPPAGE, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES.
- **12.** DIAMATIC MAKES NO OTHER PRODUCT WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Diamatic® Warranty Registration Card

NOTICE!

TO THE DELIVERING DISTRIBUTOR OR END USER

To ensure the proper warranty coverage is extended to the owner of this machine, fill out the attached card **COMPLETELY** and **ACCURATELY** and return to Diamatic.

The warranty period will start on the delivery date entered below.

The distributor or the end user must prepare the machine warranty information card when the machine is delivered. Return of the warranty card will extend the warranty period to **2 years** from the date entered below. **Failure to comply will make any and all warranties on the equipment void after 6 months.**

USER'S REFERENCE INFORMATION

Delivery Date	Machine Model No
Delivering Distributor's Name and Address	Machine Serial No.
	Modifications
Signature of Delivering Distributor's Representative	

Blastrac is a registered trademark of Blastrac,NA
Fold and Detach Here

Warranty Registration Card

IMPORTANT! To ensure that your Diamatic® machine is covered under warranty, please fill in the following information completely and mail or fax it to:

Diamatic, 5220 Gaines Street, San Diego, CA 92110

Diamatic, 3220 Games Street	st, San Diego, OA SZIIO	
Fax 619-295-0754		(Please print legibly)
Company		
City, State, & Zip		
	Contact Person	
Date of Purchase	Date Received	
Machine Model No	Serial No	
Distributor Name		
Fnd User F-mail		