

**WARNING! BEFORE YOU ATTEMPT TO OPERATE THE MACHINE , PLEASE READ CAREFULLY AND UNDERSTAND THIS OPERATION MANUAL !!!**



## GENERAL INSTRUCTIONS

- Machine must be operated by **the reliable operators who read and understand the operation manual of age above 18.**
- Keep your work area **clean and well lit. Cluttered benches and dark areas** may cause accidents.
- **Know your work area!** It is necessary to know possible obstacles, inclinations and underground utility lines.
- Before starting the work, inspect **the machine thoroughly; check all safety devices, indicators and controls.**
- Do not operate power tools in **explosive atmosphere**, such as in the presence of flammable liquid, gases or dust.
- **Never unattended the machine** while the engine is running
- **Keep children and visitors away while operating a power tool.**
- Never run the engine in **closed areas**, unless proper ventilation is ensured.
- **Concentrated exhaust fumes are dangerous to health.**
- For the proper use of this equipment, please assure that the operator has been correctly informed of the content of this manual before using it.



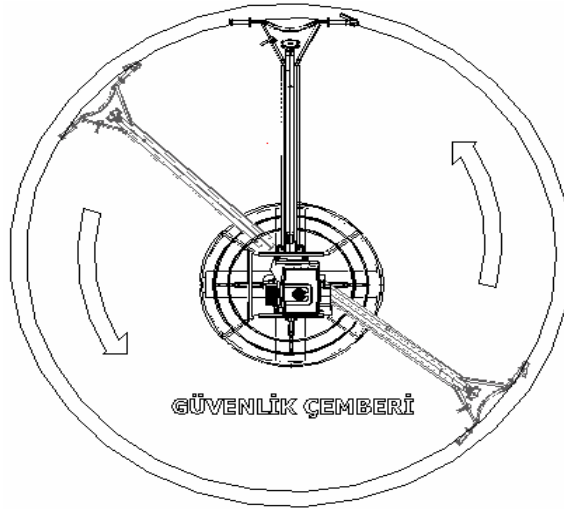
## SAFETY INSTRUCTIONS WHILE OPERATING THE MACHINE

- **Stay alert**, watch what you are doing and use common sense when operating a power tool.
- Do not use equipment, when you are **tired or under the influence of drugs, alcohol, or medication.**
- **Dress properly.**
- **Do not wear loose clothing or jewelry.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- Keep proper **footing and balance at all times.**
- **Check all adjustments of the machine.**
- **Keep your hair, clothing and gloves away from moving parts.**
- **Use safety equipment and check all safety devices before start the engine.**
- **Hold the machine firmly.**
- Extra care should be paid when operating the machine at the **edges of digs, holes, etc.** To avoid rolling over or falling down of the machine.
- The operation of the machine may require walking backwards, so be aware of the **obstacles.** Stepping in or tripping over such obstacles will cause the operator **to lose control of the machine and can result in injury.**
- Be sure that **stop switch** on your machine, is working properly. Ignition supply must be cut off at once in case of emergency.
- When you are going to leave the machine after termination or interruption of the work, **secure the machine from unauthorized use or accidental move.**



FOOT PROTECTION





### SAFETY ZONE

- There is a stop switch on the handle of P900 Power Trowel for stopping the machine against any dangers running. The machine runs when stop switch is hold in closed position by the operator. Releasing the stop switch will stop the machine.

- If the operator accidentally loses control of the handle or releases the stop switch, engine will stop running however the hadle will make 1-1,5 turns with the existing energy of the machine (see above figure)



**KEEP EVERYONE AT A SAFE DISTANCE, AWAY FROM THE SAFETY ZONE**

### TRANSPORTATION

- When loading and transporting the machine, **fasten the machine with its lifting eye properly.**
- On a carrier, **secure the machine safely** to prevent its movement or its rolling over.



### SERVICE

- Service must be performed only by **qualified service technicians.**
- **Check the maintenance table** to make the periodic maintenance.
- **Use genuine spare parts only.** The manufacturer does not bear any responsibility for damages arising from use of non-original spare parts.
- Do not make any service or maintenance **without stopping the engine.**

### SPECIFIC SAFETY RULES

- **Keep** the rotating parts and stationary ring **clean.**
- Pay extra care while operating the machine on the **wet work surfaces.** **Wet surfaces** may cause **accidents.**

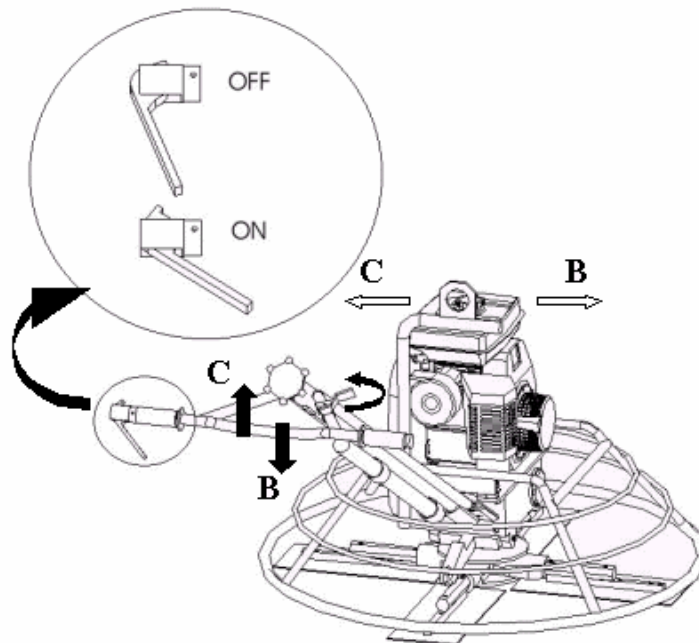


## STARTING PROCEDURE

- Be sure the fuel tank is full. Use the recommended gasoline to run the engine from its instruction book.
- Check engine oil levels.
- Turn the engine's stop switch clockwise to the position "I".
- Open the fuel cock.
- Set the speed control lever 1/3 of the way towards the high-speed position.
- If the engine is warm or the ambient temperature is high, close the choke lever half way, or keep it open fully. If the engine is cold, or the ambient temperature is low, close the choke lever.
- Pull the starter handle slowly until the resistance is felt. Return the handle to its original position and pull swiftly.
- Allow a longer warm-up period in cold weather temperatures.

## OPERATION

- Guiding the trowel on the slab is very simple. Get into the operator's position behind the center of handle, attain a good footing and apply the throttle slowly until desired speed is obtained. (A)
- Push handle down and machine will move to the right (B), lift handle up and machine will move to the left. (C)
- Slightly twist to the left and the machine will move to the left. The machine will remain stationary, if you do not apply any force up and /or down.



## STOPPING THE ENGINE

- Never use the choke to stop the engine. Leave the machine run at an idle speed for 2-3 minutes to cool down
- Move the Gas lever to minimum throttle.
- Turn the button, which is on the gasoline engine, to the OFF position to stop the machine lastly.

## BLADE ADJUSTMENT

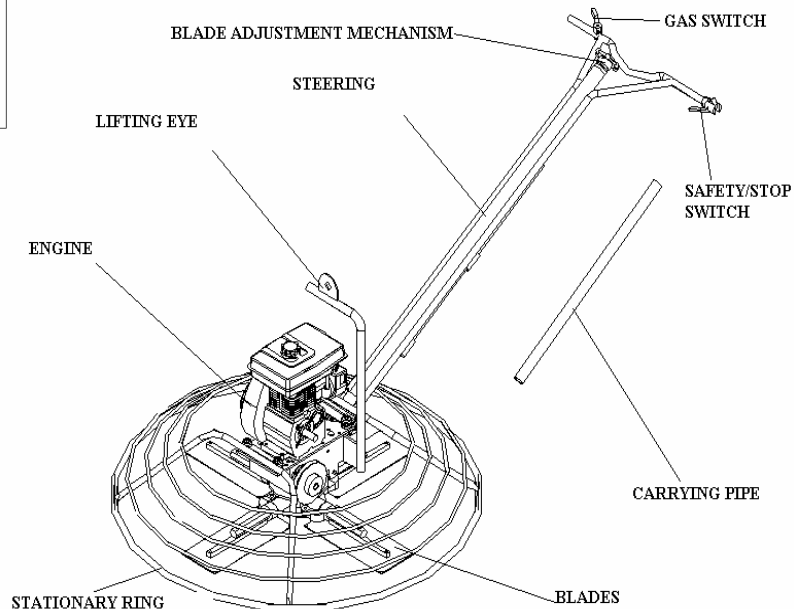
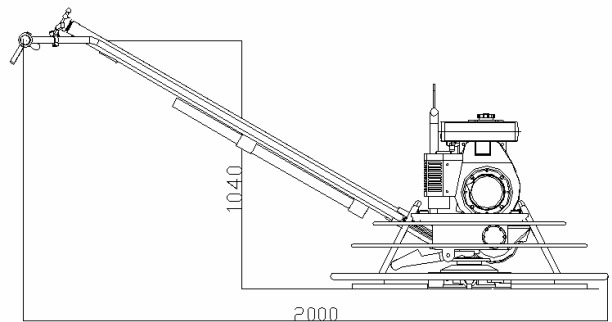
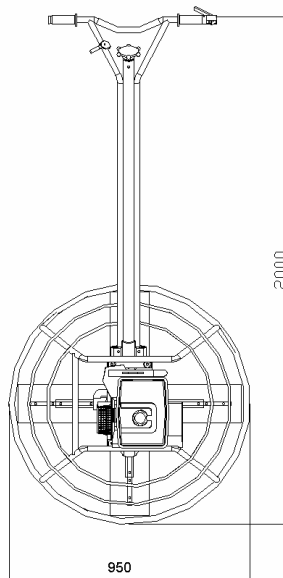
The blade pitch control knob is at easy reach of the operator. The pitch adjustment has an unlimited pitch variation and this can be undertaken whenever necessary. During finishing setting up/hardening may vary from area to area across the floor, so the pitch adjustment can be changed to suit accordingly while the machine is in operation. When transporting the trowel on a truck, always keep blades fully horizontal flat on the floating disc.

## TRANSPORTATION

For transportation of the machine use lifting eye. Alternatively to lift the machine, use an aid equipment through the stationary ring, which can carry the weight of the machine, with a carrying pipe on the back past of the handle.

## TECHNICAL SPECIFICATIONS

ENGINE	ENGINE TYPE	HORSEPOWER	WEIGHT (kg)	DIMENSIONS (L x W x H) (mm)	MAX TORQUE (rpm)
ROBIN	EY20	5 HP	80	2100 x 950 x 1040	115
ROBIN	EH 17	6 HP	80	2100 x 950 x 1040	115
ROBIN	EY28	7,5 HP	80	2100 x 950 x 1040	115
ROBIN	EH25	8,5 HP	80	2100 x 950 x 1040	115
HONDA	GX160	5,5 HP	80	2100 x 950 x 1040	115
HONDA	GX200	6,5 HP	80	2100 x 950 x 1040	115
HONDA	GX240	8 HP	80	2100 x 950 x 1040	115
HONDA	GX270	9 HP	80	2100 x 950 x 1040	115



## **MAINTENANCE TABLE**

	<b>DAILY</b>	<b>WEEKLY</b>
CLEAN THE MACHINE BY PRESSURIZED WATER	X	
CHECK THE BLADE PITCH ADJUSTMENT	X	
CHECK THE BLADE PITCH BOLTS AND CHECK OTHER BOLTS OF THE MACHINE, IF NECESSARY TIGHTEN THEM	X	X
CHECK ENGINE OIL LEVEL	X	
CLEAN AIR FILTER	X	
CHECK THE V-BELT TIGHTNESS		X
CHECK THE BLADES		X
CHANGE ENGINE OIL		X
PUT OIL TO THE GREASE FITTINGS		X

## **GEARBOX**

Check the gearbox oil level before every operation, change the gearbox oil every year. On side of the gearbox there is a plug. Use "SHELL OMALA 220 (750ml)" gear oil, or equivalent.

## **MACHINE CLEANING**

Clean the machine after it has been used to prevent the collection of hardened cement. Hard concrete/cement paste is very difficult to remove. To clean it use an old brush or hand brush.

## **CHANGE OF BLADES**

Be careful while changing the old blades with new. Due to the way the blades wear, the old blades become very sharp, like a knife blade. As a safety precaution very heavy work gloves during this operation to prevent the hands being cut. Remove bolts and lock washers on each trowel arm and remove the blades. Before installing new blades clean all concrete/cement from bottom and side of the trowel, be sure trowelling edge of the blade is behind trowel arm. Install bolts and lock washers on each trowel arm and fasten securely.

## **TIGHTEN THE V BELTS**

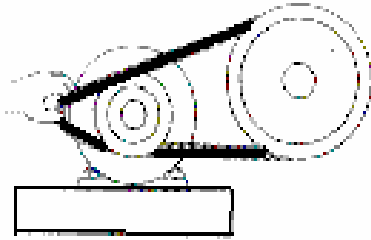
If you notice a loose on V belt, check the tightness. Especially in first using and V belt change. Check the V belt tightness after 8 hours later. Using your head finger push the V belt from its middle point. It must stretch about 2cm. If it stretches more, it is loose.

For tightening; loose the motor fixing screws. (until motor moves away on the table) Loose the motor lock nut. Loose the screws, push the motor backward. Checking the V belt tightness, do the same operations. Until tightness of V belt is desired value, screw the motor lock nut, and then screw the motor fixing screws.

## **INSTALLATION AND MAINTANENCE WHILE INSTALLING V-BELT**

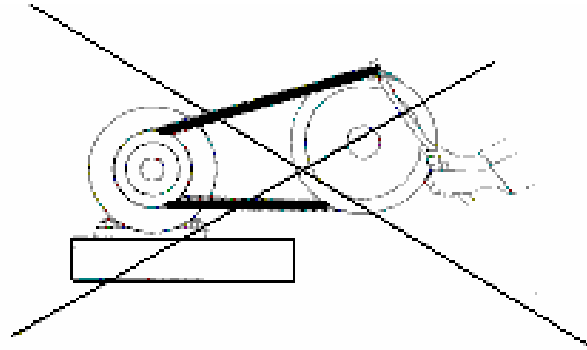
### **RIGHT**

Install the V belt by closing the center of pulleys to each other and tighten.



### **WRONG**

While installing V belt do not use crowbar.

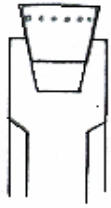


- Adjust the pulley edges with respect to pulley shafts and V-Belt grooves to be on the same plane.
- Fix the unbalanced pulleys.
- V-Belts lengths should be the same in multi-grooved pulleys.
- Change all V-Belts at the same time in multi-grooved pulleys for preventing worn out.

## **TROUBLES AND REASONS APPEARING IN V-BELTS**

<b>PROBLEMS</b>	<b>CAUSES</b>	<b>REMEDIES</b>
Ribbed belt breaking after a short period of time	-forcing the belt over pulley during installation. -ingress of foreign body -drive stalled	-use proper installation techniques -fit and effective guard -check for lubrication
Cuts and splits in the ribs	-ambient temperature is too high -abnormal belt slip -contamination by chemical	-Ensure good ventilating  -check drive tension -protect the drive
Severe belt vibration	-too low belt tension	-re tension the drive
Excessive wear of ribs	-belt catching on protruding parts -too low belt tension	-remove protrusions  -re tension the drive
Excessive noise	--contamination by oil, grease or chemicals	-protect the drive

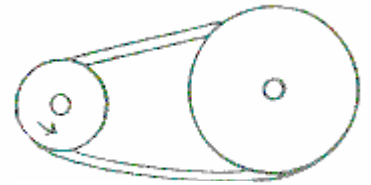
#### FACTORS AFFECTING THE V-BELT LIFE AND POWER



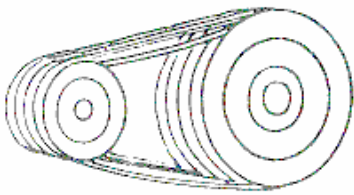
Not fixed on to groove of pulley



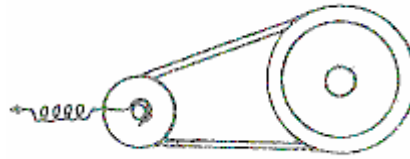
Couching the bottom surface of pulley



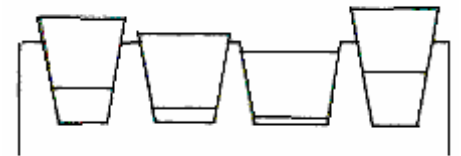
Overloading



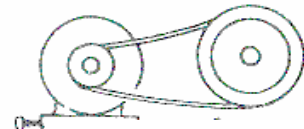
Unequal length of belts



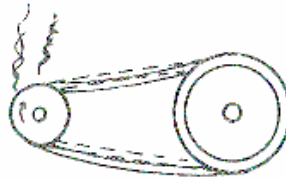
High tightness



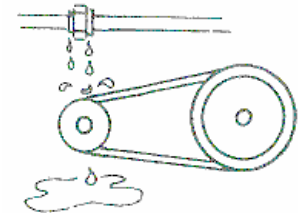
Unequal machined pulley grooves



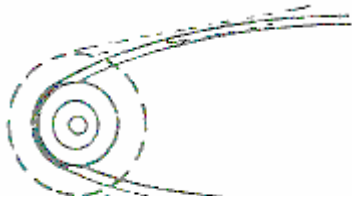
Insufficient tightness



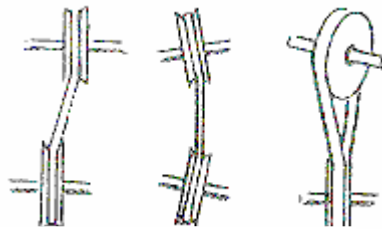
Stretching



Wetness



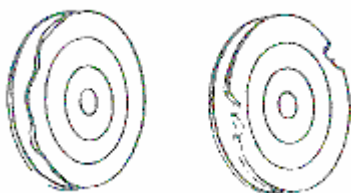
Small pulley than required



Incorrect axial alignment



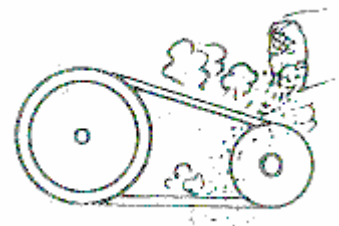
Extremely worn groove of pulley



Broken edge pulleys



Run out on pulley



Dirt and dust