

Gyro 525 / 600 / 1014

MANUAL GYROSCOPIC MIXER

Operating and Service Manual



© 2008 Phoenix Mixer India Pvt Ltd.

User's Manual

Gyroscopic I Mixer

Gyro 525/600/1014

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1. SAFETY INSTRUCTIONS

- **Read safety instruction carefully and follow them for your own protection.**
This Product is use on a nominal 115 or 230 Volt circuit, as shown on the Name plate.
Connect the Product to an outlet having the same configuration as the Plug.
Wear safety Shoes when installing or relocating the machine.
Make sure the machine stands securely.
Keep your place clean & tidy. There is risk of accidents at untidy work place.
- **Close the Machine when it is not being used.**
Machine shall be connected to dedicated electrical circuit- No other device shall be connected to this circuit.
This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.
Removal of the plug from the outlet is the means for isolating the mixer from the power supply. Ensure that the mixer is installed with the plug easily accessible to the operator.
This product is designed to operate only when the door is closed. **DO NOT ATTEMPT TO ALTER ELECTRICAL INTERLOCK MECHANISM**
In case of emergency, press the Red Emergency Stop button.
- **Do not overload the machine. Check that the weight and dimension of the mixing can are suitable**
Use only undamaged and sturdy Mixing Can, If you don't, the container may burst.
Never lift large and heavy Can into the machine.
The mixing Can has to be closed completely.
- **Make sure that the mixing Can sits in central position on Bottom Disc. Secure the container handle with rubber bands or adhesive tape.**
Take good care of the machine. Make sure that the moving parts move smoothly and without restriction. Follow the maintenance instruction.
- **Do not use high pressure equipment to clean the machine.**
Make sure that the safety devices work properly and are clean.
- **Do not use the machine if the door or the plastic shutter is damaged. if the shutter strip is broken, do not reach into the in interior. There is risk of injury from rotating components.**
- **Do not start the machine with shutter open. Pull out power plug! There is high risk of accidents!**
Before switching on the machine after maintenance work, check that no spanners or setting tools are left inside the machine.
Examine the machine for signs of damage. Check regularly that all parts are in good working condition. Have repairs carried out only by the manufacturer or an approved specialist.
Trained and authorized personnel shall use this product.

2. INTRODUCTION

Gyro 525/600/1014 is a revolutionary mixer, which is ideal for all your mixing requirements. Gyro 525/600/1014 Mixer performs gyrosopic action, which enables in effective mixing, uniform blending and making homogeneous mixer.

The Gyro 525/600/1014 mixer is specifically designed for point-of-sale color mixing applications as well as for semi-industrial applications.

This mixer is ideal for mixing small, medium, large cans up to 30 - 35kgs.

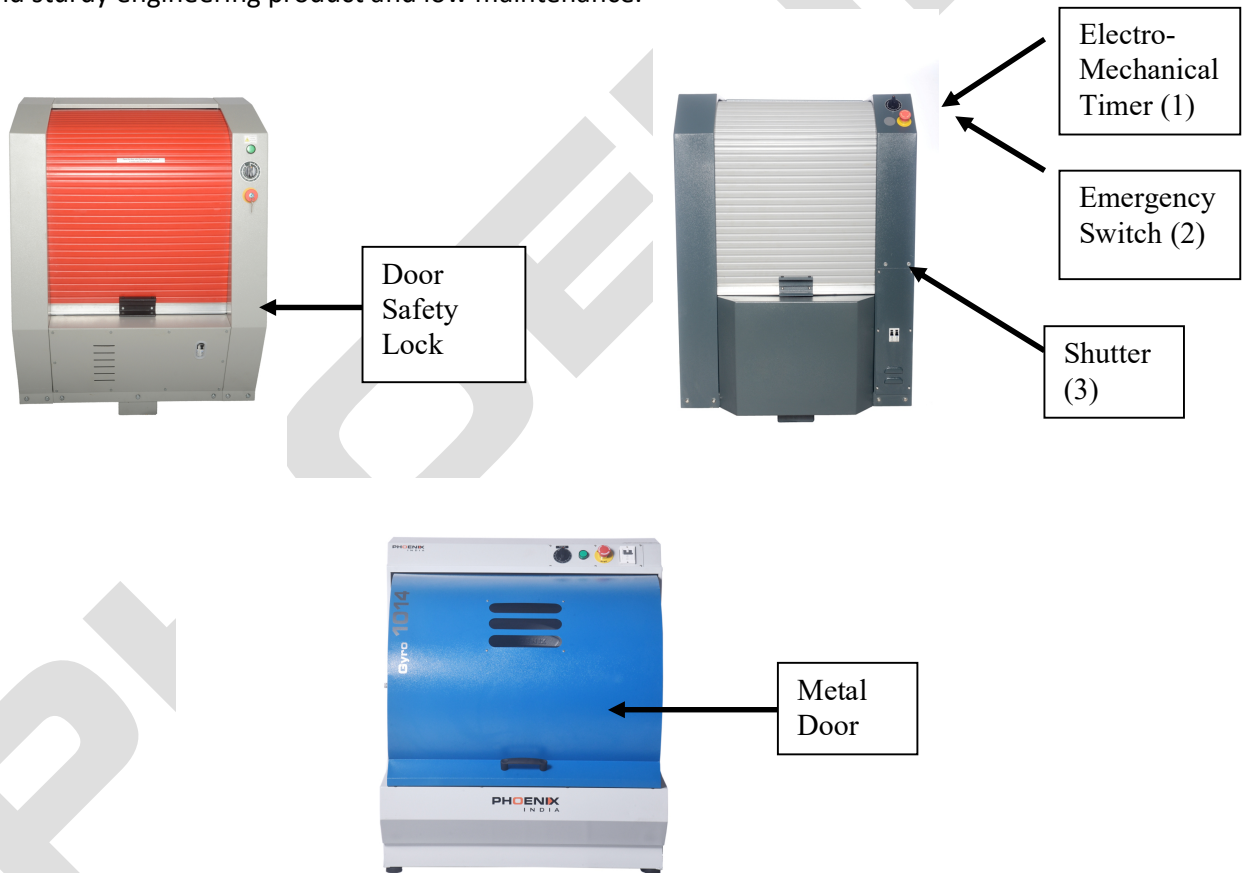
Gyro 525/600/1014 is user friendly.

The Gyro 525/600/1014 has been designed to meet the demands of the retail market.

The dimension of the machine makes it versatile and suitable for use in all environments.

The unique design results in reduced maintenance and in color mixing at the lowest cost per liter produced.

Gyro 525/600/1014 is a rugged and reliable mixer which performance and design exhibits the qualities of a strong and sturdy engineering product and low maintenance.



Phoenix shall not be liable for any damage or injury incurred by non-compliance with these regulations, or by not taking the usual and accepted precautions in handling, operation or repair, even if not expressly stated in this manual.

3. TECHNICAL SPECIFICATIONS

FEATURES	GYRO 525 STD	GYRO 525 SND
MAXIMUM CAN WEIGHT	35 KG	35 KG
MAXIMUM CAN HEIGHT	70 - 400 MM	70 - 400 MM
MAXIMUM CAN DIAMETER	60 - 275 MM	60 - 275 MM
OVAL & MULTIPLE CANS	OPTIONAL	OPTIONAL
CAN LOADING	MANUAL	MANUAL
CAN MIXING (MIN.-MAX.) 1 LIT.	1 - 3 NOS	1 - 3 NOS
CAN MIXING (MIN.-MAX.) 4 LIT.	1 NO	1 NO
CAN MIXING (MIN.-MAX.) 10 LIT.	1 NO	1 NO
CAN MIXING (MIN.-MAX.) 20 LIT.	1 NO	1 NO
STIRRER VELOCITY	SINGLE SPEED FOR ALL CANS	SINGLE SPEED FOR ALL CANS
CAN HOLDER ASSEMBLY SPEED	135 RPM	135 RPM
CAN SPIN SPEED	220 RPM	220 RPM
CLAMPING	MANUAL	MANUAL
DOOR	PLASTIC SHUTTER WITH METAL BARS	PLASTIC SHUTTER WITH METAL BARS
MAIN MOTOR	0.5 HP,1PH,220 Vac,50 Hz, 1440 RPM	0.5 HP,1PH,220 Vac,50 Hz, 1440 RPM
MAXIMUM NOISE LEVEL	55 Db	55 Db
POWER SUPPLY	220 V / 50 Hz,	220 V / 50 Hz,
POWER SUPPLY (OPTIONAL)	220 - 110 V /60 Hz	220 - 110 V /60 Hz
TIMER	MECHANICAL (UPTO 5 MIN.)	MECHANICAL (UPTO 5 MIN.)
LOCKING DOOR DEVICE (Safety Door s/w)	N/A	AVAILABLE
ELECTRONIC	N/A	BOARD
GYROSCOPIC MOTION	COUNTER CLOCKWISE	COUNTER CLOCKWISE
EMERGENCY SWITCH	AVAILABLE	AVAILABLE WITH KEY
TRANSPORT ROLLER (CUSTOR WHEEL)	OPTIONAL	OPTIONAL
MACHINE DIMENSION (W X D X H)	840 X 670 X 1060 MM	840 X 670 X 1060 MM
NET WEIGHT	135 KG	135 KG
SHIPPING DIMENSION (W X D X H)	915 X 740 X 1180 MM	915 X 740 X 1180 MM
GROSS WEIGHT	148 KG	148 KG

FEATURES	GYRO 600 STD	GYRO 600 SND
MAXIMUM CAN WEIGHT	35 KG	35 KG
MAXIMUM CAN HEIGHT	70 - 400 MM	70 - 400 MM
MAXIMUM CAN DIAMETER	60 - 275 MM	60 - 275 MM
OVAL & MULTIPLE CANS	OPTIONAL	OPTIONAL
CAN LOADING	MANUAL	MANUAL
CAN MIXING (MIN.-MAX.) 1 LIT.	1 - 3 NOS	1 - 3 NOS
CAN MIXING (MIN.-MAX.) 4 LIT.	1 NO	1 NO
CAN MIXING (MIN.-MAX.) 10 LIT.	1 NO	1 NO
CAN MIXING (MIN.-MAX.) 20 LIT.	1 NO	1 NO
STIRRER VELOCITY	SINGLE SPEED FOR ALL CANS	SINGLE SPEED FOR ALL CANS
CAN HOLDER ASSEMBLY SPEED	150 RPM	150 RPM
CAN SPIN SPEED	225 RPM	225 RPM
CLAMPING	MANUAL	MANUAL
DOOR	PLASTIC SHUTTER WITH METAL BARS	PLASTIC SHUTTER WITH METAL BARS
MAIN MOTOR	0.5 HP,1PH,220 Vac,50 Hz, 1440 RPM	0.5 HP,1PH,220 Vac,50 Hz, 1440 RPM
MAXIMUM NOISE LEVEL	55 Db	55 Db
POWER SUPPLY	220 V / 50 Hz,	220 V / 50 Hz,
POWER SUPPLY (OPTIONAL)	220 - 110 V /60 Hz	220 - 110 V /60 Hz
TIMER	MECHANICAL (UPTO 5 MIN.)	MECHANICAL (UPTO 5 MIN.)
LOCKING DOOR DEVICE (Safety Door s/w)	N/A	AVAILABLE
ELECTRONIC	N/A	BOARD
GYROSCOPIC MOTION	COUNTER CLOCKWISE	COUNTER CLOCKWISE
EMERGENCY SWITCH	AVAILABLE	AVAILABLE WITH KEY
TRANSPORT ROLLER (CUSTOR WHEEL)	OPTIONAL	OPTIONAL
MACHINE DIMENSION (W X D X H)	840 X 680 X 1075 MM	840 X 680 X 1075 MM
NET WEIGHT	125 KG	125 KG
SHIPPING DIMENSION (W X D X H)	915 X 830 X 1180 MM	915 X 830 X 1180 MM
GROSS WEIGHT	145 KG	145 KG

FEATURES	GYRO 1014 STD	GYRO 1014 SND
MAXIMUM CAN WEIGHT	35 KG	35 KG
MAXIMUM CAN HEIGHT	70 - 400 MM	70 - 400 MM
MAXIMUM CAN DIAMETER	60 - 300 MM	60 - 300 MM
OVAL & MULTIPLE CANS	OPTIONAL	OPTIONAL
CAN LOADING	MANUAL	MANUAL
CAN MIXING (MIN.-MAX.) 1 LIT.	1 - 3 NOS	1 - 3 NOS
CAN MIXING (MIN.-MAX.) 4 LIT.	1 NO	1 NO
CAN MIXING (MIN.-MAX.) 10 LIT.	1 NO	1 NO
CAN MIXING (MIN.-MAX.) 20 LIT.	1 NO	1 NO
STIRRER VELOCITY	SINGLE SPEED FOR ALL CANS	SINGLE SPEED FOR ALL CANS
CAN HOLDER ASSEMBLY SPEED	135 RPM	135 RPM
CAN SPIN SPEED	220 RPM	220 RPM
CLAMPING	MANUAL	MANUAL
DOOR	METAL DOOR	METAL DOOR
MAIN MOTOR	0.5 HP,1PH,220 Vac,50 Hz, 1440 RPM	0.5 HP,1PH,220 Vac,50 Hz, 1440 RPM
MAXIMUM NOISE LEVEL	55 Db	55 Db
POWER SUPPLY	220 V / 50 Hz,	220 V / 50 Hz,
POWER SUPPLY (OPTIONAL)	220 - 110 V /60 Hz	220 - 110 V /60 Hz
TIMER	MECHANICAL (UPTO 5 MIN.)	MECHANICAL (UPTO 5 MIN.)
LOCKING DOOR DEVICE (Safety Door s/w)	N/A	AVAILABLE
ELECTRONIC	N/A	BOARD
GYROSCOPIC MOTION	COUNTER CLOCKWISE	COUNTER CLOCKWISE
EMERGENCY SWITCH	AVAILABLE	AVAILABLE WITH KEY
TRANSPORT ROLLER (CUSTOR WHEEL)	OPTIONAL	OPTIONAL
MACHINE DIMENSION (W X D X H)	830 X 760 X 960 MM	830 X 760 X 960 MM
NET WEIGHT	121 KG	121 KG
SHIPPING DIMENSION (W X D X H)	915 X 830 X 1100 MM	915 X 830 X 1100 MM
GROSS WEIGHT	135 KG	135 KG

EN 292 Part 1 and 2: 1991	Safety of Machinery – Basic concepts, general Principles for design
EN 418: 1992	Safety of Machinery – Emergency stop equipment, Functional aspects
EN60204 Part 1: 1997	Safety of machinery – Electrical equipment of Machines -Specifications for general requirements.
EN 954-1: 1996	Safety of Machinery – Safety related parts of control Systems- Part 1: General principles for design
EN 1088: 1995	Safety of machinery-Interlocking devices associated with guards.
EN 294: 1992	Safety of machinery – Safety distances to prevent danger zones being reached by the upper limbs.
EN 953: 1997	Safety of machines – Guards-General requirements for the design and construction of fixed and movable for coating materials.
PrEN 12757-1	Mixing machinery for coating materials

- Materials used by Phoenix to manufacture the machine doesn't undergo corrosions or deteriorations (They are compatible) with the paints which have to be mixed.

4. WARRANTY

LIMITED WARRANTY: Phoenix warrants each unit manufactured to be free of defects in material and workmanship for a period of twelve months. This warranty applies to single-shift operation and is counted from the date of initial start-up. It cover all defects arising from faulty material or workmanship.

Please Note that all warranty claims must be accompanied by the original delivery note or initial start – up report.

All essential warranty repair work must only be carried out by trained service engineers or by third parties authorization form Phoenix. Unauthorized repair may render the warranty null and void.

Please return any defective parts or machines carriage-paid to our factory. Phoenix reserves the rights to decide on whether cost-free parts replacement is applicable. Parts and labour covered by the warranty will be supplied free of charge. The warranty does not cover travel cost, expenses or possible overnight accommodation resulting from warranty repairs carried out off our premises.

Any other responsibility, with particular reference to damage claims, including foregone profit or other material losses on the part of the customer, is expressly excluded.

Warranty and liability claims for personal or material damage are excluded if attributable to one or more of the following causes:

The part unit shall be returned with transportation charges prepaid. If the fault has been caused by misuse or abnormal conditions of operation, repairs will be billed at a normal cost. In this case, an estimate will be submitted before works is started, if requested.

Always include serial number in any correspondence concerning the part unit.

The warranty expires: Twelve month after date of invoicing

- Operation of the machine with defective safety or protection device.
- Incorrect operation of the machine, as define in the operation instructions.
- Failure to observe the instruction in the operating manual with respect to set up, initial start up, operation and maintenance of the machine.
- Fault and damage cause by dirt or incorrect cleaning schedules, with particular reference to leaks and damaged Cans.
- Unauthorized structural modification to the machine.
- Incorrect monitoring of parts subject to wear and consumables.
- Unauthorized repairs or fitting of non original parts.
- Damage caused by the impact of foreign bodies or majeure force.

We reserve the right to make amendments as a result of on going advance in the technical field.

5. SAFETY SPECIFICATIONS

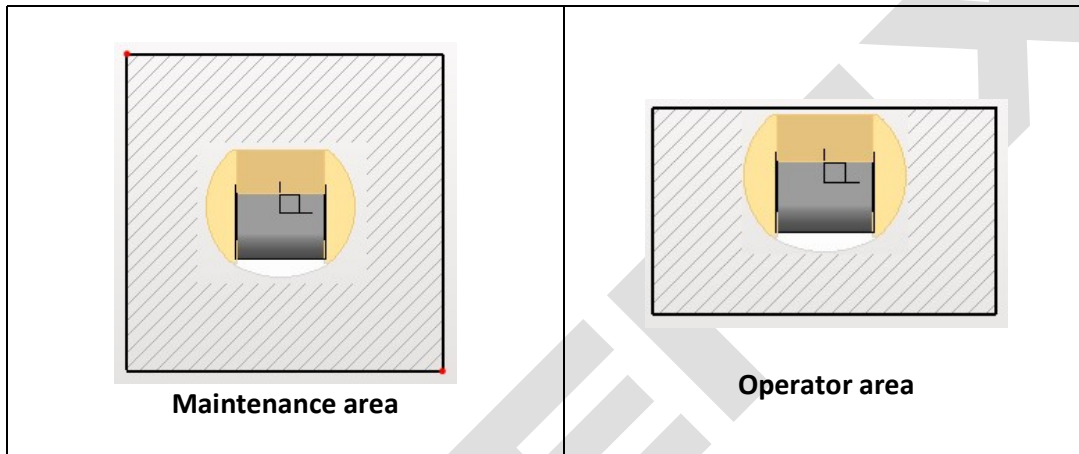
Compliance with safety requirements:


This mixer must be used and serviced by authorized and trained personnel only. Improper use or servicing may result in dangerous situations or accidents.


Risk to personnel is possible in two areas:

Operator area

↳ Maintenance area



	<p>THIS EQUIPMENT MUST BE GROUNDED. Attention!!!</p> <p>Connect this product to a dedicated electrical circuit – no other devices shall be connected to this circuit. Do not use extension cords to connect this product.</p>
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	<p>Attention!!!</p> <p>Only trained personnel shall be permitted access to the electrical wiring within the machine. DO NOT USE THIS PRODUCT IF THE BACK PANEL IS NOT IN PLACE.</p>
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The machine is equipped with a power supply cable having the following specifications:

Length: 8 FT
Size: 16 AWG

The machine shall be connected to a dedicated, grounded circuit, protected by a 10 A circuit breaker. All wiring shall be in accordance with local codes

Important:

The power supply cable conductors are color-coded as follows:

GREEN or GREEN/YELLOW	—	GROUND
WHITE or BLUE/BLACK	—	NEUTRAL
BLACK or BROWN/RED	—	LINE

Service safety rules:

1. Prior to performing any maintenance or inspection of the Gyro 525/600/1014 disconnect the power plug from the electrical outlet in order to ensure that the Gyro 525/600/1014 cannot start unexpectedly.
2. To prevent injuries to personnel ensure that all removable panels are in place and properly secured except for any necessary inspections or maintenance.
3. Do not disable or override any of the installed safety features such as the door lock system.
4. The Gyro 525/600/1014 shall be installed in an environment conforming to the appropriate local regulations. A permit issued by the local authority may be required. Keep the number of paint cans in the immediate area of the machine to a minimum.
5. Do not store flammable materials or other materials inside the machine. The area in which the Gyro 525/600/1014 is installed must be kept free of exposed flames, incandescent fixtures or other devices that might create sparks.
6. It is recommended that a ventilation system, guaranteed to maintain the concentration of dangerous vapors around electrical components at less than 30%, be installed.
7. When the Gyro 525/600/1014 is not being used for a period of time (such as at the end of the work day), ensure that it is empty (no paint can inside), close the door and unplug the power plug from the outlet.
8. Ensure that all tools are removed from inside the machine after any maintenance work.

RESIDUAL RISK

Residual risks list for the user:

The Gyro 525/6001014, and its operating and service instructions, have been developed giving careful consideration to the safety of the user and service technician. However, there are situations where risks can be reduced but not eliminated completely.

RISK	PRECAUTION
Injury or crushing during loading and unloading operations.	Use protective gloves and safety shoes during loading and unloading operations.
Abrasions and injuries caused by sharp edges on the cans being used	Use protective gloves during loading and unloading operations.
Liquid leakage form the cans being used	Thoroughly clean the operator and maintenance areas. Keep these areas clean.

Personal protection for user :

The Gyro 525/600/1014, when properly operated and maintain, presents minimal risk to the user. However, it is recommended that the user wear suitable protective equipment (safety glasses, safety shoes with non-slip soles and gloves), in particular when loading and unloading the mixer.

General danger situations :

There are no specifically identified hazard related to the operation and maintenance of the Gyro 525/600/1014 (e.g. fire risk, issue or dispersion of dangerous products). However, it is recommended that a powder type fire extinguisher, suitable for electrical fires, be readily accessible.

Safety devices :

The machine is equipped with the following safety devices:

- Emergency Stop Button
- Door Lock and sensor (optional)

Emergency Stop Button

For safety reasons, all users should know the location of the Emergency Stop button, and how to use it. The RED Emergency Stop push button is located on the Right Hand control panel on the top front of the mixer – to the Right of the door. Pushing the button will immediately cut power to the motor control relay, stopping the motor. To reset the button and restore the mixer to normal operation mode, rotate the button clockwise.

Door Lock and sensor

The Gyro 525/600/1014 is equipped with a safety device which prevents start up of the mixing cycle when the door is in the open position. It also locks the door in the closed position during the mixing cycle.

6. INSTALLATION

INSTALLATION CONDITIONS:

Before unpacking and installing the Gyro 525/600/1014 Mixer, please make sure of the following:

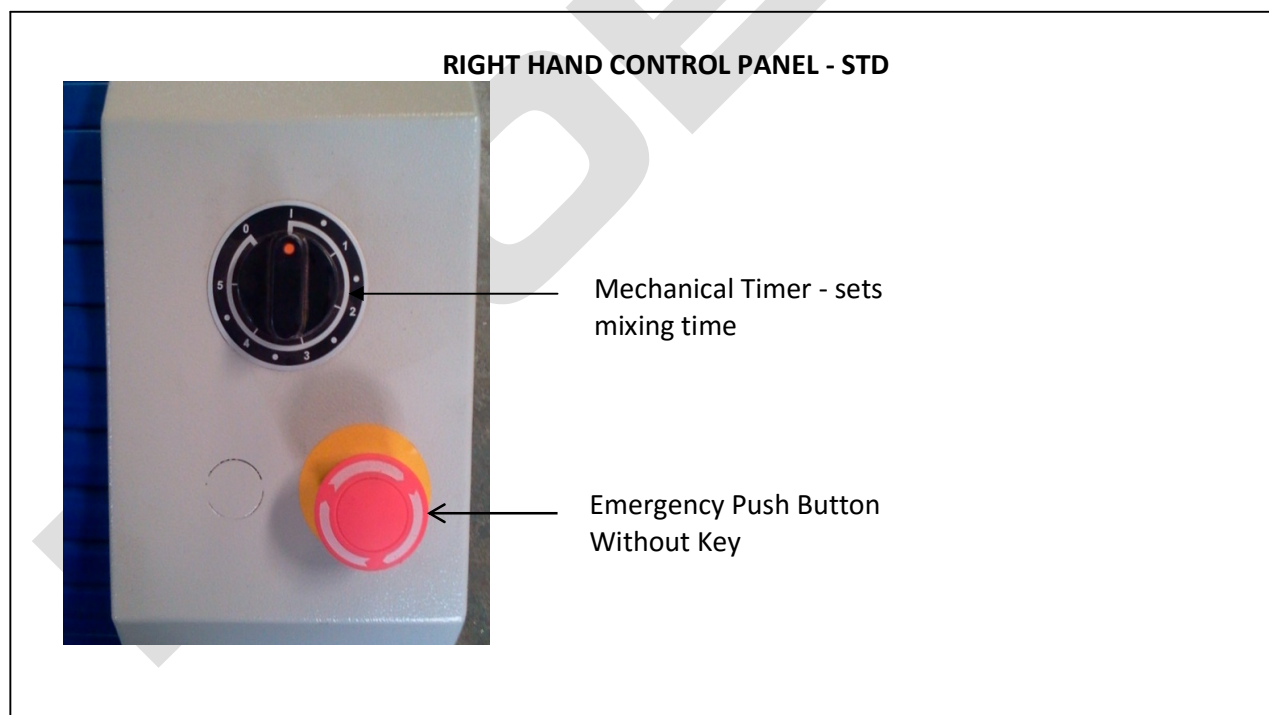
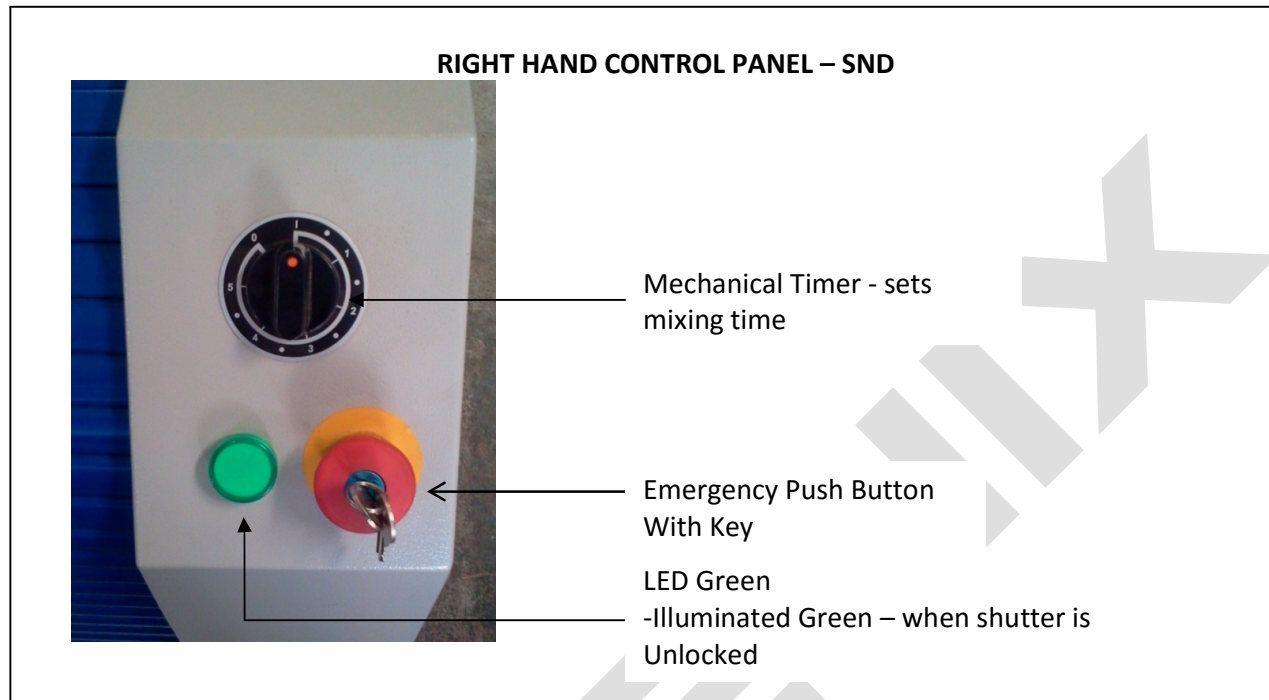
- The crate/packaging in which the Gyro 525/600/1014 was shipped has not been damaged in any way.
- The floor on which the Gyro 525/600/1014 is to be located is firm and level
- An electrical receptacle on a properly grounded, dedicated, 15 A, 115V or 10A, 230 V circuit is available in the immediate vicinity. The circuit shall be installed in accordance with local codes. The receptacle shall be of a configuration appropriate for the voltage and current rating of the circuit.

INSTALLATION:

It is recommended that, during the installation of the mixer, protective gloves be worn in order to prevent hand injuries.

- Unpack the Gyro 525/600/1014 Mixer.
- Ensure the machine has not been damaged in any way
- Position the mixer in the desired location.
- Using the four leveling feet, level the machine, ensuring that all four feet are properly supporting the machine. Lock the leveling legs in place by tightening the jam nuts.

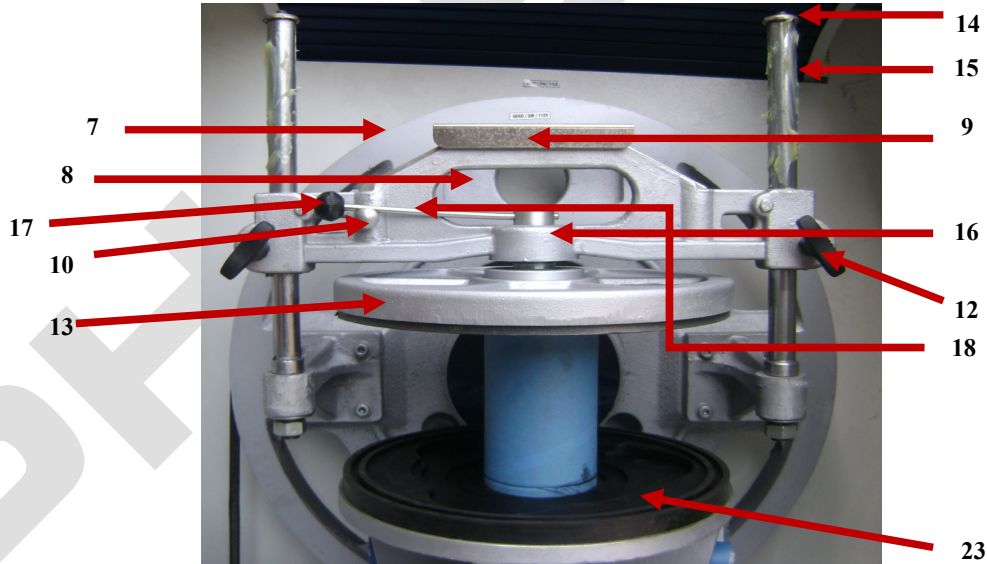
7. CONTROLS



8. OPERATIONS

- Put the Single adapter for 1, 4, 10 ltrs. Can on the Bottom disc (23). Place the Can on the groove area of the adapter. For Cans of 20 ltrs, place the Can directly on the bottom disc.
- Set the Fine clamping lever (18) of the Clamping bracket (16) in the de-clamp position.
- Turn the two keys of the Locking Plastic (12) in anti clockwise direction in order to de-clamp the clamping bracket.
- Press the Handle for Clamping Bracket (9) downward by holding the clamping bracket so that it slides between the Guide Shafts (15).
- Slide down and press it on the top of the can and then release the Handle for Clamping Bracket.
- Now turn the two keys of the Locking Plastic (12) in clockwise direction in order to clamp the clamping bracket.
- To put some extra pressure on the can, fix the Fine clamping lever to the Plug for fine clamping lever (10).
- Close the Shutter (3) properly.
-
- Set the time required to shake the can depending on the can size by rotating the Mechanical timer (1) on the front panel of the machine. This will start the machine.
- The machine will stop automatically after the time cycle is over. In case of Emergency press the Emergency Push Button (2) on the front panel to stop the machine.
- When machine stops running completely, open the Shutter and remove the Can.

Internal Assembly :



TURN ON MACHINE (Connect to power) :

Note: The door will not open until the Gyro 525/600/1014 mixer is connected to the building power.

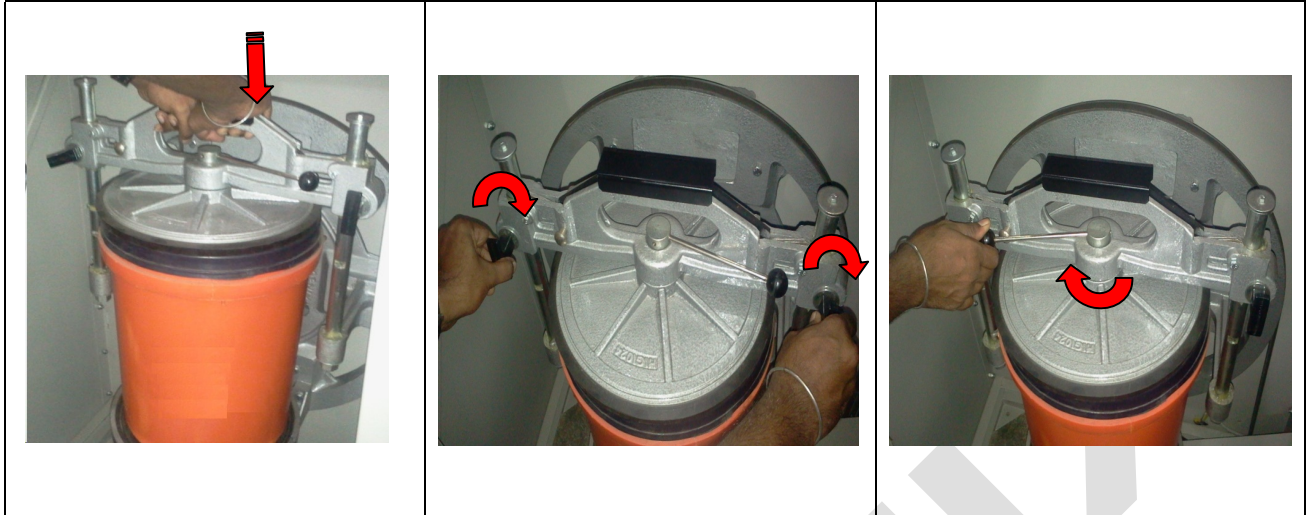
- Ensure the Emergency push button is engaged – push to engage if necessary
- Plug the mixer into the appropriate electrical receptacle. Ensure the circuit breaker on the left hand side the mixer, near the top rear corner, is ON.

CAN LOADING:

1. Open the Gyro 525/600/1014 Mixer door to its fully open position.
2. Ensure the Can Holder Assembly is in the vertical, top dead center (TDC) position, with the Clamp Mechanical Mechanism at the top.
3. Referring to the illustrations, open the Can Clamping Bracket as follows:



- Take up the Clamping bracket assembly fully by pressing Handle for clamping bracket as shown in picture
- Position the can on the bottom Disc. Using the concentric rings on the Bottom Disc as a guide, ensure the can is properly centered.



- Clamped the Clamping bracket assembly by pressing Handle for clamping bracket down.
- Rotate Lock for clamping assembly in clockwise direction to tight the Clamping bracket Assembly
- For fine clamping of the can rotate and engaged the Fine clamping lever in clock wise..
- Close the Shutter to the fully closed position.

MIXING:

Mechanical Timer:

- Set the desired mix time by turning the knob on the Mechanical timer to the appropriate position.
- Gyro will spin for the set time to mix the Paint.

Once the set time has expired, Gyro Assembly will come to a stop.

To STOP the mixer during an emergency situation, push the Emergency push button. The door will unlock.

USE THE EMERGENCY PUSH BUTTON IN AN EMERGENCY SITUATION ONLY

Note: Always remove the can from the mixer after the mix cycle has been completed. Follow the UNLOADING instructions below.

UNLOADING THE CAN:

1. Open the Gyro 525/600/1014 Mixer Shutter to its fully open position.
2. Rotate the Assembly to the vertical, top dead center (TDC) position, with the Handle for clamping Bracket mechanism at the top.

9. PREVENTIVE MAINTAINANCE

9.1 Use of Platform

Every Gyro 525/600/1014 is having Down Panel (19) platform, which is useful for handling 10 and 20 Ltr Cans.



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9.2 Replacement of Parts

After certain period, may be in accidental break down or due to wear & tear of part, it will become essential to replace few spare parts.

9.3 Tools Required

Allen key set containing 3/16", 5/16", 4 mm, 5 mm, 6 mm, 8 mm, 10 mm and 14 mm Allen keys.

- Fix spanner set containing spanners of 6 to 26 mm size.
- Screw drivers 6", 8", 12".
- Monkey Pliers, Circlip Pliers (Internal & External).
- Nose pliers and Combination pliers.

9.4 Replacing new Clamping Lever & Spring



Fig 1

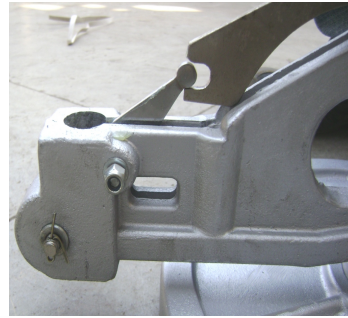


Fig 2

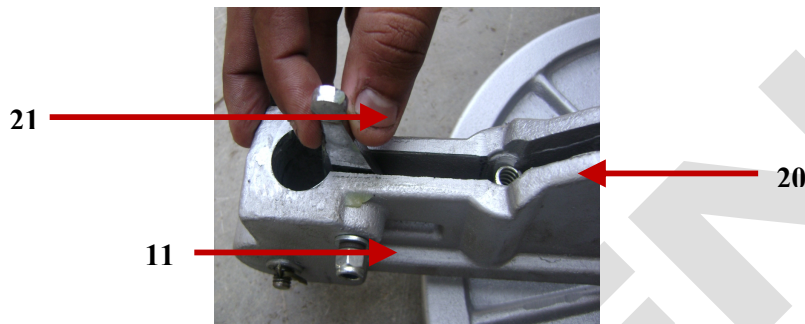


Fig 3

- Remove Stopper on Guide Shafts (14). By pressing Handle for Clamping Bracket (9) take out Clamping Bracket (16) from Guide Shaft (15) as shown in fig1.
- Place it on flat surface & lift the Handle for Clamping Bracket. Remove the Spring for clamping lever (20) from socket provided on Clamping Bracket as shown in fig 2 and fig 3.
- Two Clamping levers are fixed on bracket by locking pins. Unscrew the Nylock nut (11). Remove locking pin & Clamping lever.
- Put new springs in socket & also replace Clamping lever (21) with new one. Screw the Locking Pin. Assemble the handle by inserting the levers in the slots of the handle.
- Again press the Handle for Clamping Bracket & insert Clamping Bracket into Guide Shafts & fix the Stopper for Guide Shaft.

9.5 Replacement of Belts

There are two type of belts used in Gyro 525/600/1014

9.5.1 V-Belt (22) Main Wheel to Motor Pulley (Gyro 600 – A87, Gyro 525 – A79 , Gyro 1014 – A66)



Fig 1



Fig 2



Fig 3

- Insert the Screw Driver on the left side of the Main wheel (7) and pull the belt slightly outwards as shown in fig1.
- Now to remove the belt rotates the Main wheel clockwise.
- To put the belt back, pass the belt on the Main motor pulley and the Main wheel and rotate the Main Wheel clockwise as shown in fig 3.

9.5.2 V-belt (24) Bottom Disc to Fix Pulley

(Gyro 600 – SPZ1750, Gyro 525 – SPZ1400, Gyro 1014 – SPZ 1400)

The Following Figures illustrates the way to replace V Belt, PU belt or Rope Belt

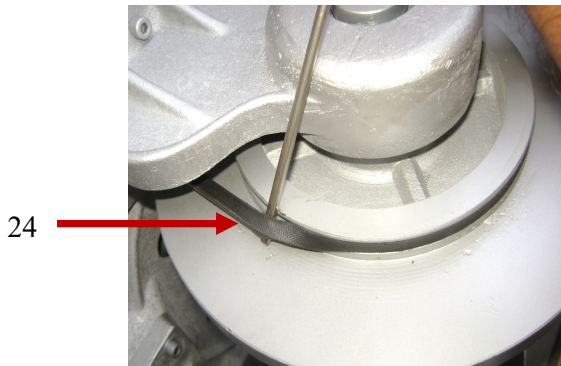


Fig-1



Fig-2

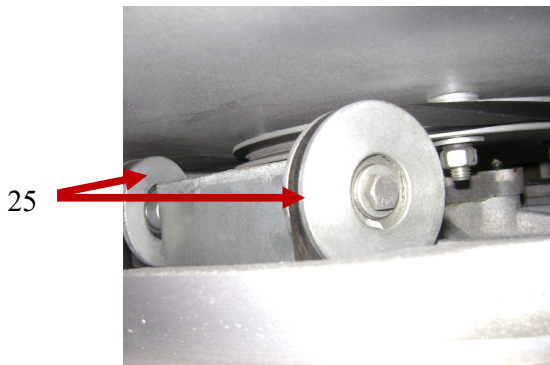


Fig-3

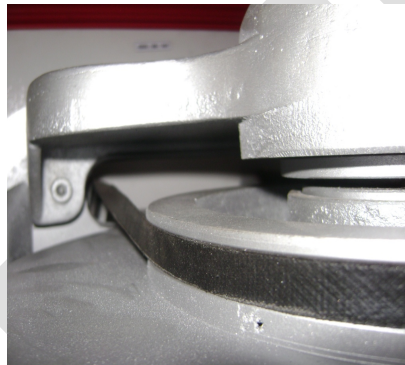


Fig-4

- For changing V-belt (Bottom disc – Fix Pulley),we have to remove the main wheel V-belt as explained in chapter 10.1
- Insert the Screw Driver into the grooves of bottom disc and rotate the disc in opposite direction. (fig 2)
- Now to remove the belt from Guide pulley(25) fixed to Main wheel.(Fig 3)
- After removing belt from Guide pulley, remove it from Main wheel.
- While putting new belt, insert it in the Main wheel first.
- Then insert the belt in Pulley, then insert it in the Oval shaped space on Main wheel to Bottom disc. (Fig 4).

9.6 Replacement of Rubber Lining

Top disc is provided with soft plain rubber lining. The driving disc (Bottom Disc) & Single adapters are provided with grooved Hard rubber lining.

- Remove the Bottom disc by removing Hex Bolt at center of disc.
- Pull out damaged lining with the help of screwdriver.
- Clean surface of disc by using emery paper.
- Use adhesive to fix new lining.
- Put the lining on disc & match the holes of lining with disc.
- Replace the lining of the Single adapter in the same manner.

9.7 Minimum Spares Required

1. V Belt / Polyurethane Belt / Rope Belt.
2. Clamping Lever and Spring for Clamping lever.
3. Rubber lining for Top Disc.
4. Rubber lining for Bottom Disc.
5. Rubber lining for Single Adapters.
6. Printed Circuit Board.

PHOENIX

10. MAINTENANCE AND TROUBLESHOOTING

Gyro 525/600/1014

Monthly Maintenance: or Ordinary Maintenance

- Always keep the Machine clean.
- Accidental spillage of the paint must be cleaned then and there to avoid difficulties after it gets dried-up.
- Apply a light layer of general-purpose grease over the Guide Shafts once in a week.
- Always slide Clamping bracket by pressing Handle for clamping bracket.
- Please check bottom rim of cans before loading to Machine.
- Do not load damaged Paint containers.
- Always ensure proper tension of Belts to reduce mixing time.

Note : Apply grease on Guide shaft of EP 90 Lithium base

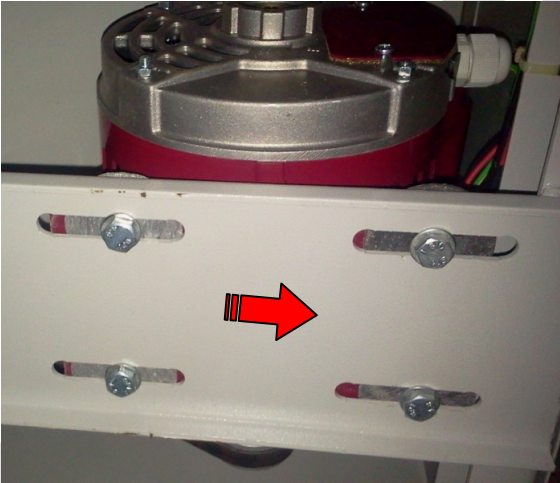
Troubleshooting:

PROBLEM	TROUBLE SHOOTING
Machine is not turning on or Not rotate	<ol style="list-style-type: none"> 1) Check the Mains supply. 2) Check MCB Position, it should be ON. 3) Check the Power supply 4) Check plug or loose wire. 5) Check Motor belts.
Machine vibrates during operation or Not remain stable.	<ol style="list-style-type: none"> 1) Check the floor on which machine has been installed. 2) Check the floor surface, it should be on plain surface. 3) Otherwise put packing below the legs.
Main Motor not running / working	<ol style="list-style-type: none"> 1) Check Emergency push button 2) Check Motor mechanism and Motor capacitor. 3) Check input supply.
Machine makes a loud noise after every revolution	<ol style="list-style-type: none"> 1) Check the foundation of the Motor. 2) Check the tension of the belt joining the Motor pulley and the Main Wheel. If found loose, adjust it to the proper tension. 3) Check whether the belt has worn out. If yes, then replace the same with a new one.

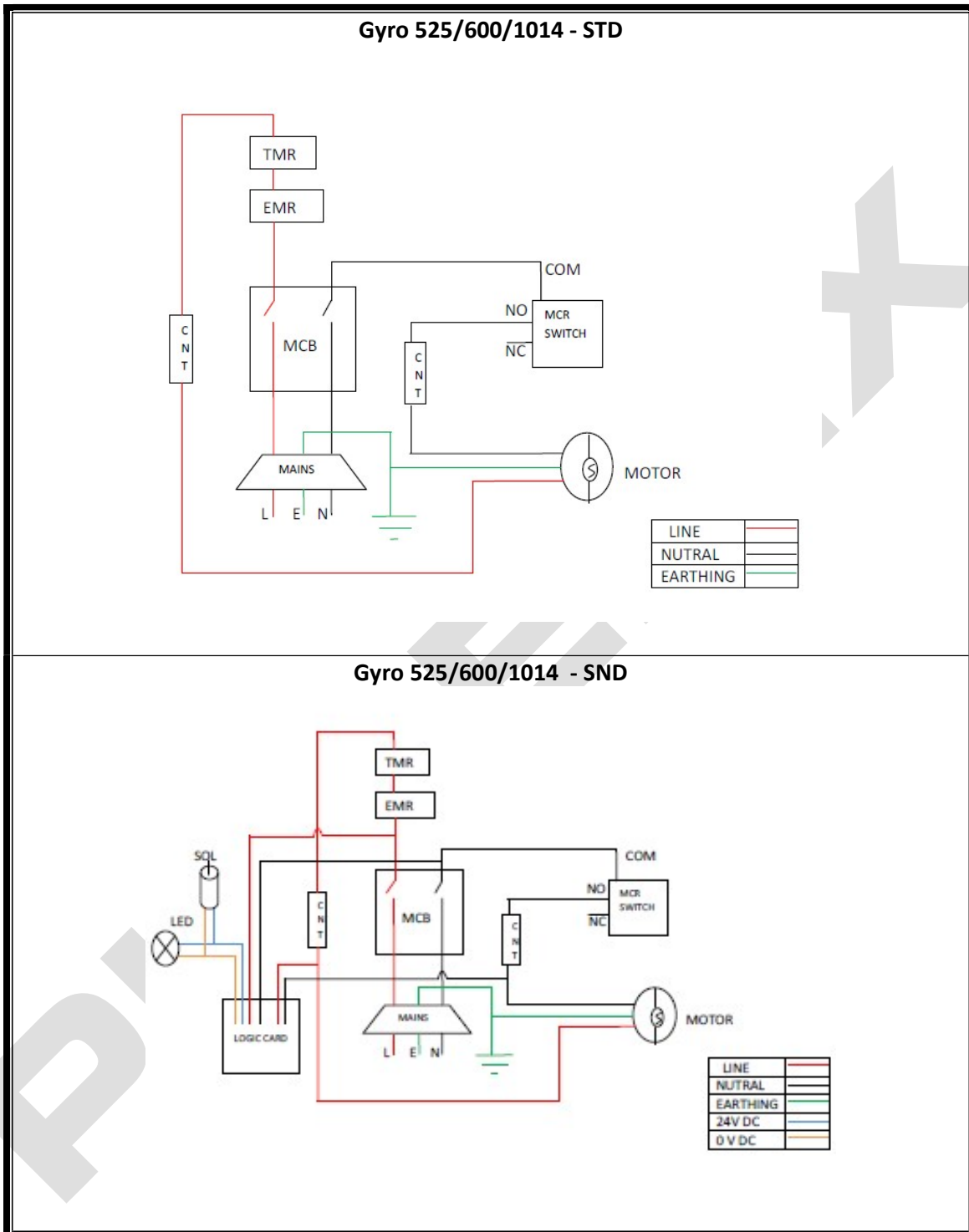
Container clamped does not rotate along its axis even though the machine is rotating.	<ol style="list-style-type: none"> 1) Check the "V" belt for proper tension. 2) If the belt is found loose then replace the same with a new one.
Clamped container becomes loose	<ol style="list-style-type: none"> 1) Tight handle for sprocket properly. 2) Tight Lock/Unlock handle (Locking Plastic).
Clamping bracket does not slide smoothly.	<ol style="list-style-type: none"> 1) Clean the Guide Shafts and apply the general-purpose grease
Machine is giving shock while in operation	<ol style="list-style-type: none"> 1) Check for proper grounding. If the earthing is not proper consult an Electrician.
Timer Failure	<ol style="list-style-type: none"> 1) Check Power ON 2) Rotate Timer Knob 3) Reset Knob

Note: Shutter will not open when the Power is OFF

Adjusting Transmission Belts:

	<p>Remove Cover for Motor from the machine.</p> <p>Check belt tension, which should bend 5 – 10mm while pressed with fingers in its side.</p> <p>To Correct the tension, set the bolt with motor as shown in the picture.</p> <p>Check the belt by rotating the main pulley. The belt should not be worn.</p> <p>Put the back panel in its original position.</p>
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11. SCHEMATIC DIAGRAM



12. Reference Legend

Ref. No.	Part Description
1	Mechanical Timer-5Min H\E032
2	Emergency Push Button H\E033
3	Emergency Push Button with Key H\E010
4	Shutter H\O039
5	Shutter Handle H\O040
6	Single Adapter Universal(1/4/10 Ltr) H\G022
7	Rubber Lining for Universal Adaptor H\O009
8	Main Wheel H\G038 , H\G027
9	Counter Weight H\G039
10	Handle For Clamping Bracket H\B021
11	Plug For Fine Clamping Lever H\G017
12	Nylock Nut M6 F\H119
13	Lock for Clamping Assembly H\A006
14	Top Disc H\G024
15	Stopper For Guide Shaft H\G043
16	Guide Shaft H\G034
17	Clamping Bracket H\G025
18	Bakelite Ball H\O003
19	Fine Clamping Lever H\G008
20	Can remover plate H\B039
21	Spring for Clamping Lever F\H133
22	Clamping Lever H\G003
23	V-Belt A-79 (Main Wheel- Motor Pulley) F\H129
24	V-Belt A-87 (Main Wheel- Motor Pulley) F\H130
25	V-Belt A-66 (Main Wheel- Motor Pulley) F\H282
26	Bottom Disc H\G036 , H\G033
27	V – Belt spz1400 (Bottom Disc- Fix Pulley) F\H131
28	V – Belt spz1750 (Bottom Disc- Fix Pulley) F\H132
29	Guide Pulley F\G021

THANK YOU

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