



Read this instruction manual before  
using the floor power trowel!



# **CONCRETE POWER TROWEL L030003 REVOLVING CIRCLE - 60 cm**



## **USER MANUAL AND SPARE PARTS LIST**

# ISOPLAM S.r.l.

Address:

Via E.Mattei, 4  
31010 Maser (TV) Italy

Tel. +39 0423 925023

E-mail: [info@isoplam.it](mailto:info@isoplam.it)

Web: [www.isoplam.it](http://www.isoplam.it)

**CONCRETE POWER TROWEL**

**L030003 REVOLVING**

**CIRCLE**

## **GENERAL SAFETY GUIDELINES**

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be used by qualified and trained personnel only. This equipment should not be operated by persons under 18 years of age.

1. Always use proper heavy lifting techniques when moving equipment.
2. Always make sure that machine is kept in proper operating condition.
3. Always have throttle position at idle while starting engine.
4. Always check to make sure that operating area is clear before starting engine.
5. Always test safety equipment including the safety engine kill mechanisms before operating equipment.
6. Never place feet on or inside the guard ring while starting the engine.
7. Never operate this equipment without proper protective clothing including footwear.
8. Always keep clear of rotating parts when operating.
9. Never operate with belt guard or any other guards removed.
10. Never leave machine unattended while running.
11. Never refuel while engine is running or while engine is hot.
12. Always refuel in a well ventilated area, away from sparks and open flames.
13. Never smoke while refuelling.
14. Exhaust fumes are lethal! Operate machine in a well ventilated area, away from places where fumes can accumulate.

## **SAFETY INFORMATION**

### FOLLOW ALL SAFETY INSTRUCTIONS

Read all safety instructions carefully. Safety instructions will be found throughout this manual and on the machine. Keep all safety information in good, readable condition. If needed, replacement safety information is available.

Proper machine operation includes training for operators. Operators should be versed on machine safety and operation. Never allow a person who is not properly trained to operate this equipment. Keep this machine in proper working condition. This includes keeping all safety decals on the machine clean and visible.

Do not modify this machine. Doing so may cause improper operation and may not be safe. This may also reduce machine life. Modifying this machine in any way will void the warranty.

### OPERATE MACHINE SAFETY

Always be aware of the operational area of your machine. Operators need to be careful to keep bystanders and nearby objects at a safe distance from the machine. Never let someone who is untrained operate this machine.

Study the operational area carefully. Remove all dangerous objects from the finishing area (i.e. protruding rebar or wood). Do not attempt to use the machine to use the machine where operation appears to be dangerous.

Keep the machine properly maintained and in good working order. This mainly entails keeping the machine clean and serviced. This will allow the finisher to perform to it's fullest potential and provide the longest operational lifetime. Check the safety kill switch before and after every operation. It is good practice to stop the machine with the safety kill switch, to ensure it is operating properly.

Always try to do most work during daylight hours or with sufficient artificial lighting. Visibility must be good for this machine to be used effectively.

Never operate machinery when tired or ill. Operators must be alert and always looking for possible signs of danger or misuse of machinery. Do not operate the machine in dangerous surroundings.

## **FUEL**

### FUEL

Handles fuel safely. Motor fuels are highly flammable and can be dangerous if mishandled.

Do not smoke while refuelling. Do not refuel if the engine is hot and running.

Always shut off fuel flow with the fuel line valve after every machine use. Never store the machine with fuel in the tank for any extended period of time.

Clean up spilled fuel immediately.

### PERSONAL PROTECTIVE EQUIPMENT

Always wear proper clothing while operating this equipment. Protective clothing includes (but is not limited to): boots, long sleeve shirt, long pants, gloves, hearing protection and safety eyeglasses. Consult with the construction site foreman to determine what protective clothing is required on the construction site.

### HAZARDOUS MATERIALS

Exposure and mishandling of hazardous material can cause personal injury or damage the environment. Potentially hazardous material used on this machine may include the following: lubricant, fuel, paints and adhesives.

Take care to handle hazardous material properly. MSDS information sheets are available upon request.

## **MAINTENANCE SAFETY**

Cautions! Disconnect spark plug wires before attempting service.

Before attempting maintenance on this machinery, know the procedure and have the correct tools. Always make sure that machine is stopped and the spark plug wires are disconnected before attempting service. Securely support any machine components that must be raised for service (i.e. trowel arms). Never lubricate the machine or attempt service on a running machine. Always allow the machine proper time to cool before servicing.

Keep machinery in proper running condition. Make sure that there is no build up of concrete, grease, oil or debris. Keep all parts properly installed. Fix damage immediately and always replace worn or broken parts.

Dispose of potentially hazardous waste properly. Examples of potentially hazardous waste are: motor oil, fuel and filters.

Use rigid containers for trapping these items. Do not use old food or beverage containers, someone may be misled. Do not pour waste oil or fuel directly onto the ground, down a drain or into any water source.

Inquire what the proper disposal procedures are for waste fuel and oil in your local area.

# **TROWEL FINISHER SERIES----INSTRUCTIONS**

## **Putting Into Service**

Before packing and shipping, this power Trowel was run and tested at the factory.

If there are any problems, please let us know.

Before putting your new finisher into service, read all manuals and instructions carefully.

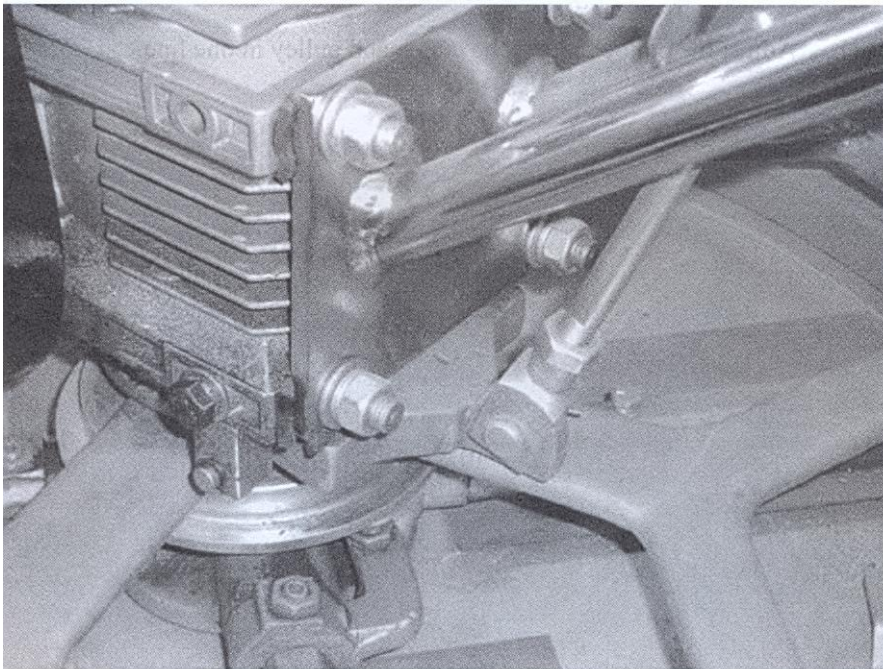
Improper setup, use or maintenance of your equipment could result in personal injury or damage to equipment.

The purpose of this section of the manual is to explain the intend setup, use and maintenance of this equipment.

## **ASSEMBLY**

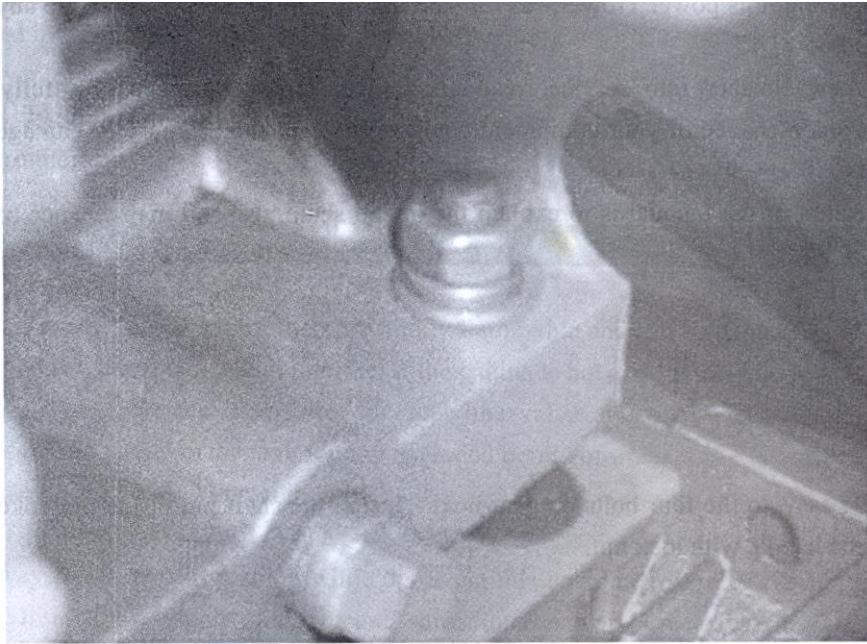
1) Connect the handle assy.

To the four bolts on gear-box. Install the shaft pin inside the yoke arm. Tightened the handle with lock nut.



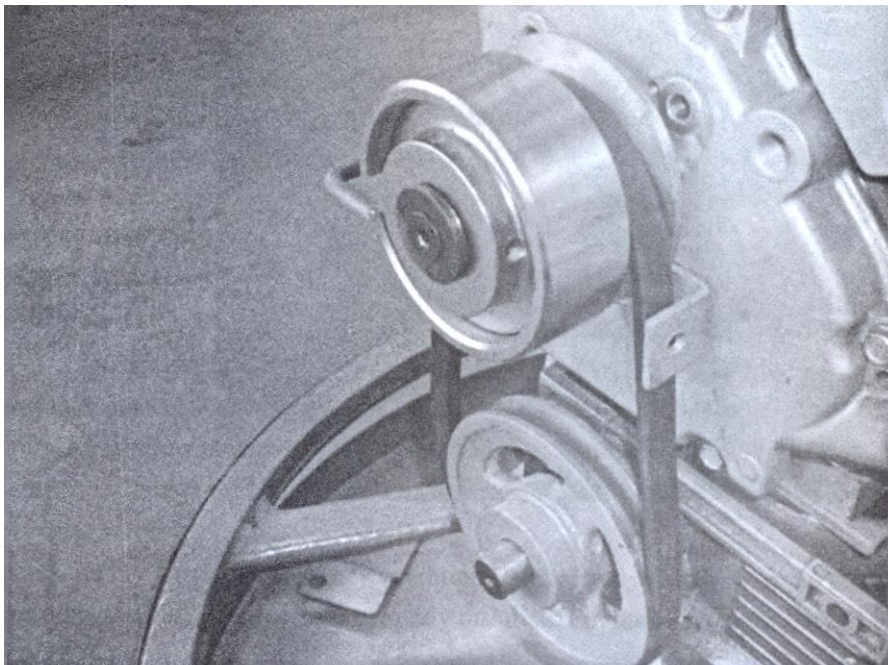
2) Engine mounting.

Put the engine on mounting base and install plate and spring washer lock the nut.



3) Install the drive belt.

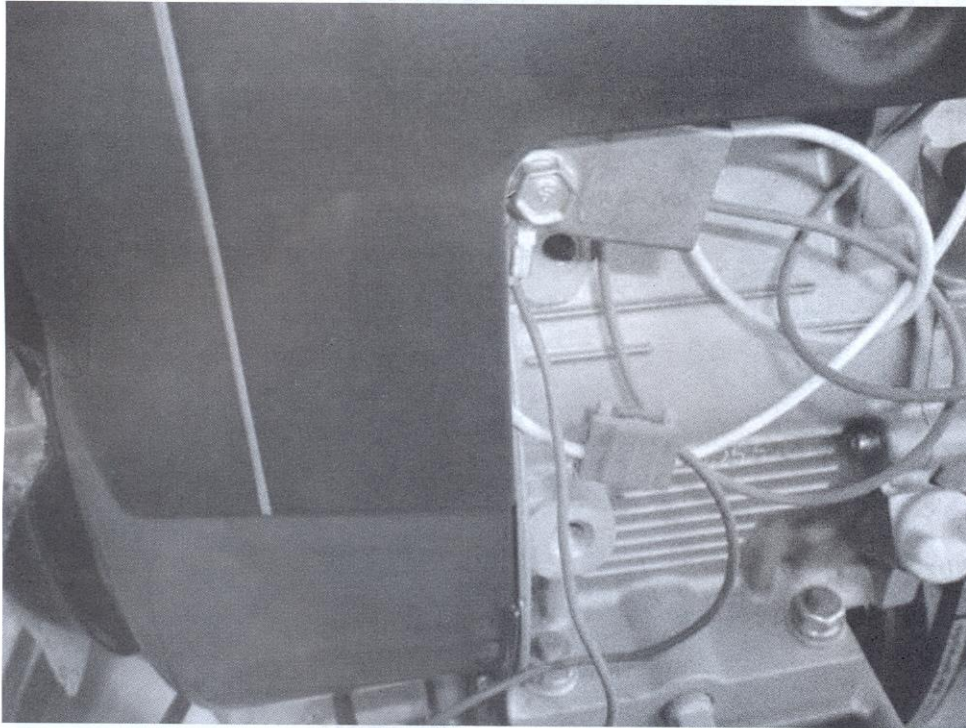
Adjust the pulley to keep the clutch and pulley in one line.





4) Connect one stop wire leader to engine mounting bolt.

Another leader to engine stop connector.

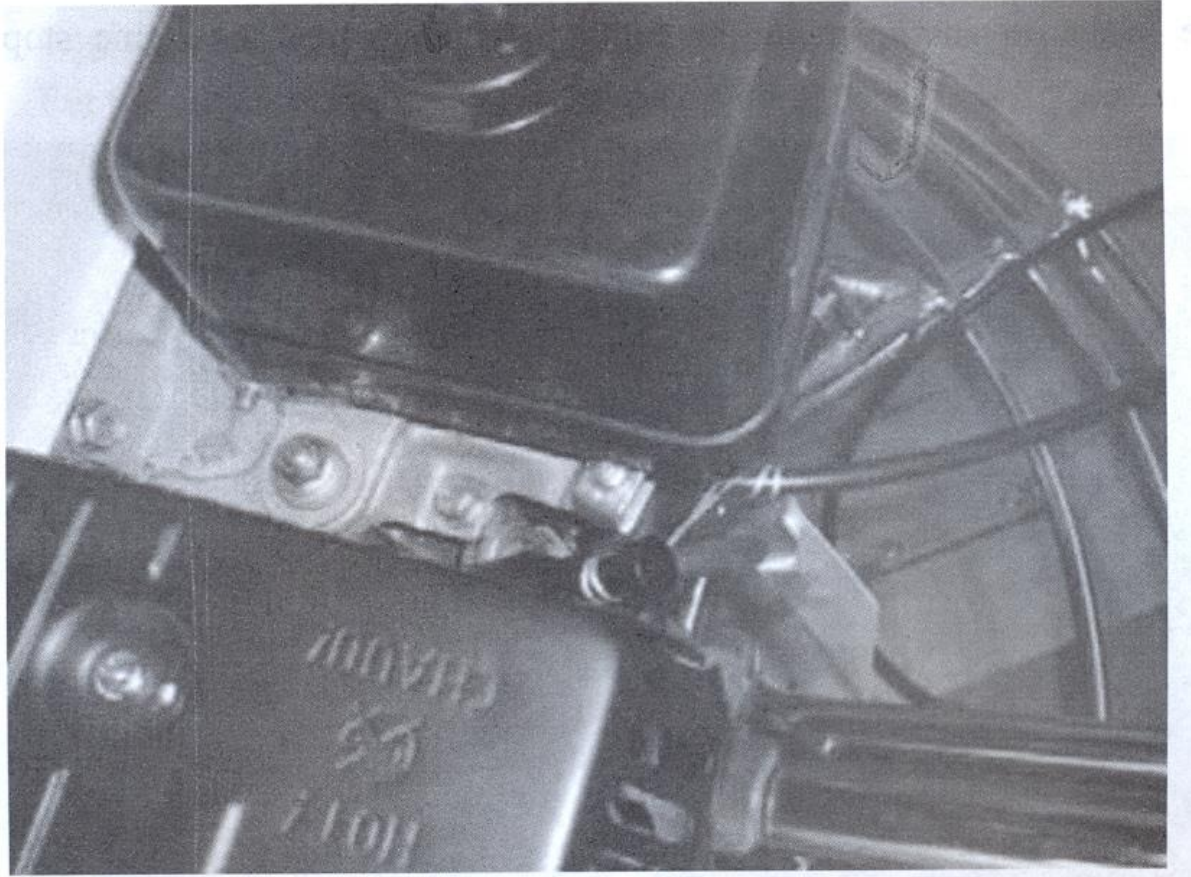


5) Connect throttle control wire to engine.

Set the throttle lever to the idle position by pushing it away from the operator's position towards the engine. Loosen the screw that crimps the throttle cable to allow free movement of throttle cable.

Connect the throttle cable to the engine. Keep in mind there should be a piece of wire installed on the machine to show you where to route the throttle cable. When connecting the cable housing, make sure that no more than  $\frac{1}{4}$  (6.4mm) of the cable housing protrudes past the housing clamp on the engine.

Tighten the clamp on the throttle control, operator position of the handle.



### **Honda Engine**

6) Inspect all the screw and lock nut which is safety tightened.

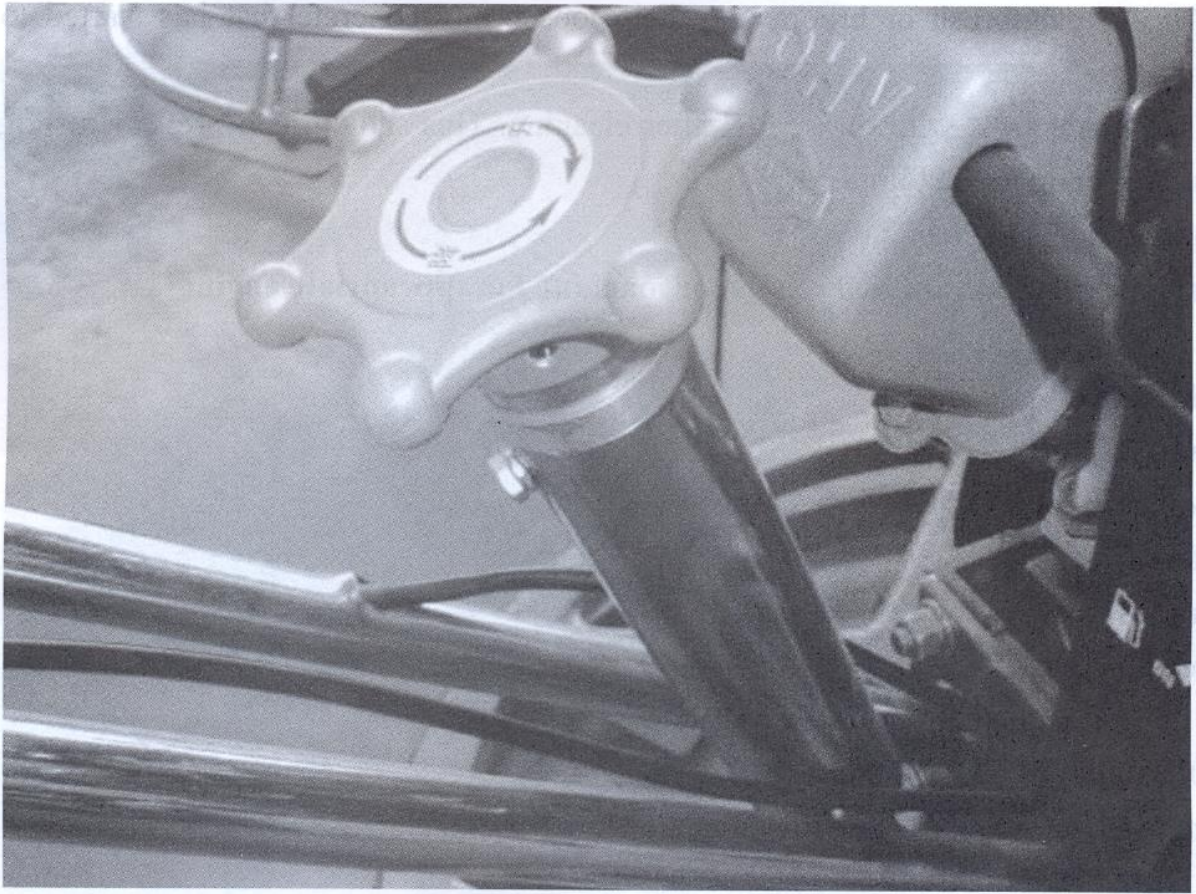
## **Operating**

**Always look behind you to avoid hazards before moving backwards**

1. Engine key switch in "ON" position
2. Set throttle control level in idle position.
3. Grasp the control handle with left hand, right hand start the engine. Pull slowly on starter rope until resistance is felt, then pull briskly to start the engine. If the engine fails to start after several tries, consult the engine owner's manual.
4. Get into the operator's position behind the handle. With a secure foothold and a firm grasp on the handles slowly increase the engine speed until the desired blades speed is obtained.

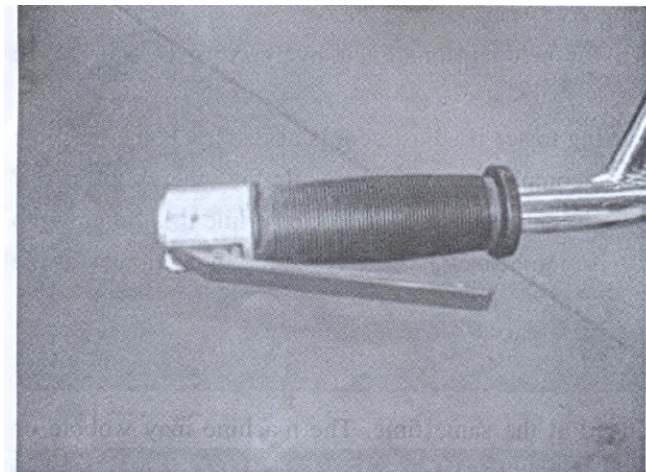


5. Adjust the blade adjust wheel to make the blades according the work requirement.



## Stop

1. Adjust engine speed to idle speed. Stop the engine.
2. In emergency situation, loosen the safety stop switch by your hand to stop the engine.



## **General Instructions**

### **Cleanup**

NEVER allow concrete to harden on the power trowel.

Immediately after use, wash any concrete off your trowel with water. Be careful not to spray water on the engine. An old paintbrush or broom may help loosen any concrete that has started to burden.

Coat the blades and blades arms with diesel fuel after cleaning. This should help prevent rusting and allow for easier cleanup in the future.

Maintenance service, adjustment and repair.

**NOTE: See the engine manual supplied with your machine for appropriate engine.**

### **Maintenance schedule**

Daily (8-10 Hours)

Check the fluid levels in the engine and gearbox.

Weekly (50-60 Hours)

Re-lubrication arms, thrust collar and clutch. Replace the blades if necessary.

Check and clean or replace the engine air filter as necessary.

Monthly (100-200 Hours)

Remove, clean, reinstall and re-lubrication the arms, thrust collar and clutch.

Adjust the blade arms.

Yearly (200-2500 Hours)

Check and replace if necessary the arm bushings, thrust collar bushing, shaft seals and belt.

Check pitch control cable for wear.

## **SERVICE PROCEDURES**

Checking Belt Tension.

The first indication of belt wear is a reduced blade speed despite the engine running at full speed.

Inspect belts often for signs of damage or excessive wear.

There is no method for manual adjustment of belt tension. Excessively worn belts must be replaced.

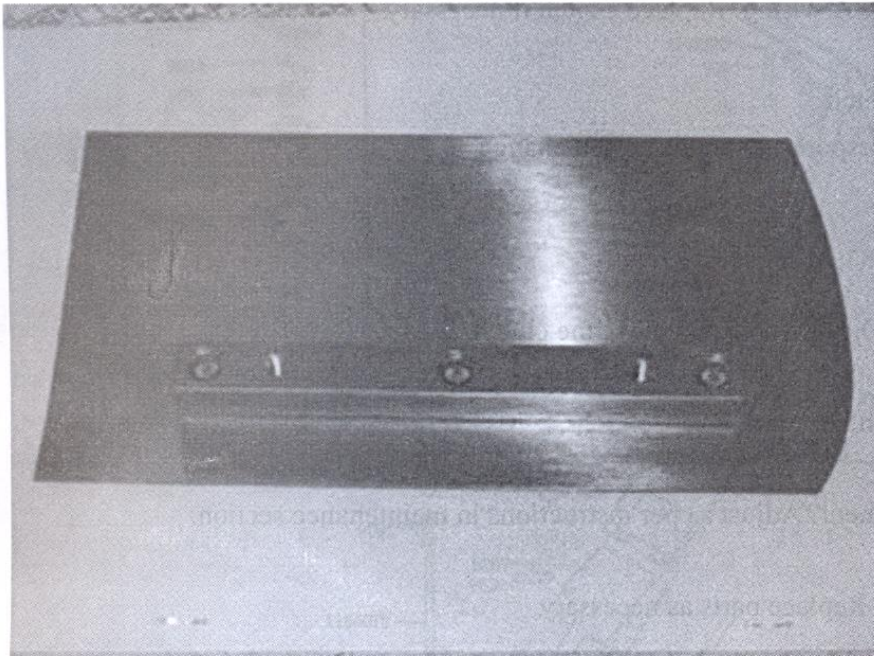
There are some things to look for when checking to see if adjustment is necessary. Is the machine wearing out blades unevenly (i.e. one blade is completely worn out while the others look new)?

Does the machine have a perceptible rolling motion? Look at the machine while it is running, do the guard rings “rock up and down” relative to the ground? These are some indications that the blade pitch needs to be adjusted.

### **Changing a Blade**

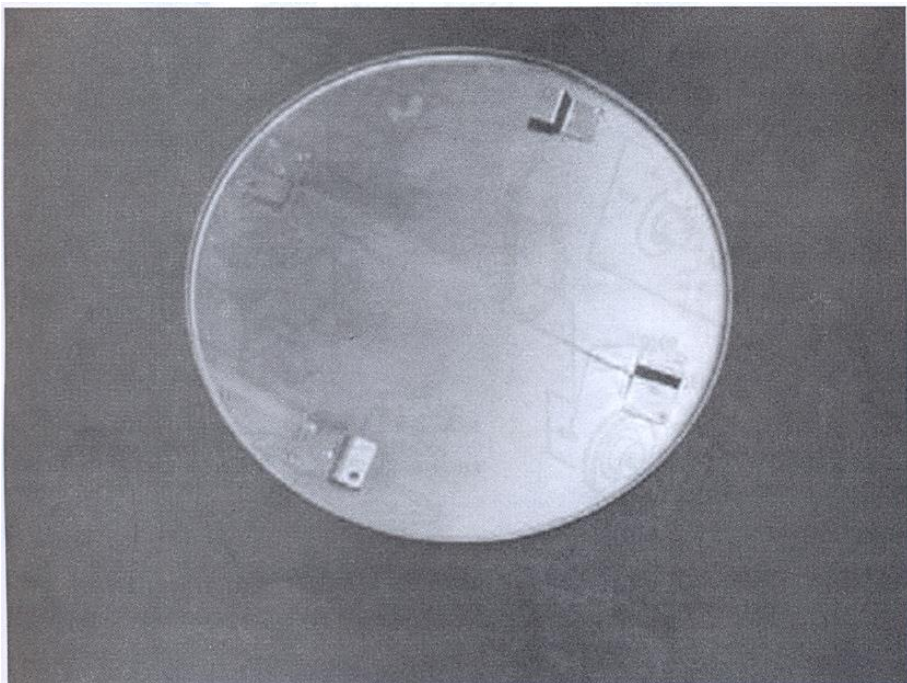
We recommend that all the blades be changed at the same time. The machine may wobble or bounce if only some of the blades are changed at one time.

1. Place the machine on a flat, level surface. Adjust the blade pitch control to make the blades as flat as possible. Note the blade orientation on the trowel arm.
2. Remove the bolts and lock washers on the washers on the trowel arm, then remove the blade.
3. Scrape all concrete particles from the trowel arm.
4. Install the new blade, maintaining the proper orientation for direction of rotation.
5. Affix the bolts and lock washers.
6. Repeat steps 2-6 for all of the remaining blades.



**Finishing Pan**

**L030001 - L030003 pan is a standard equipment**

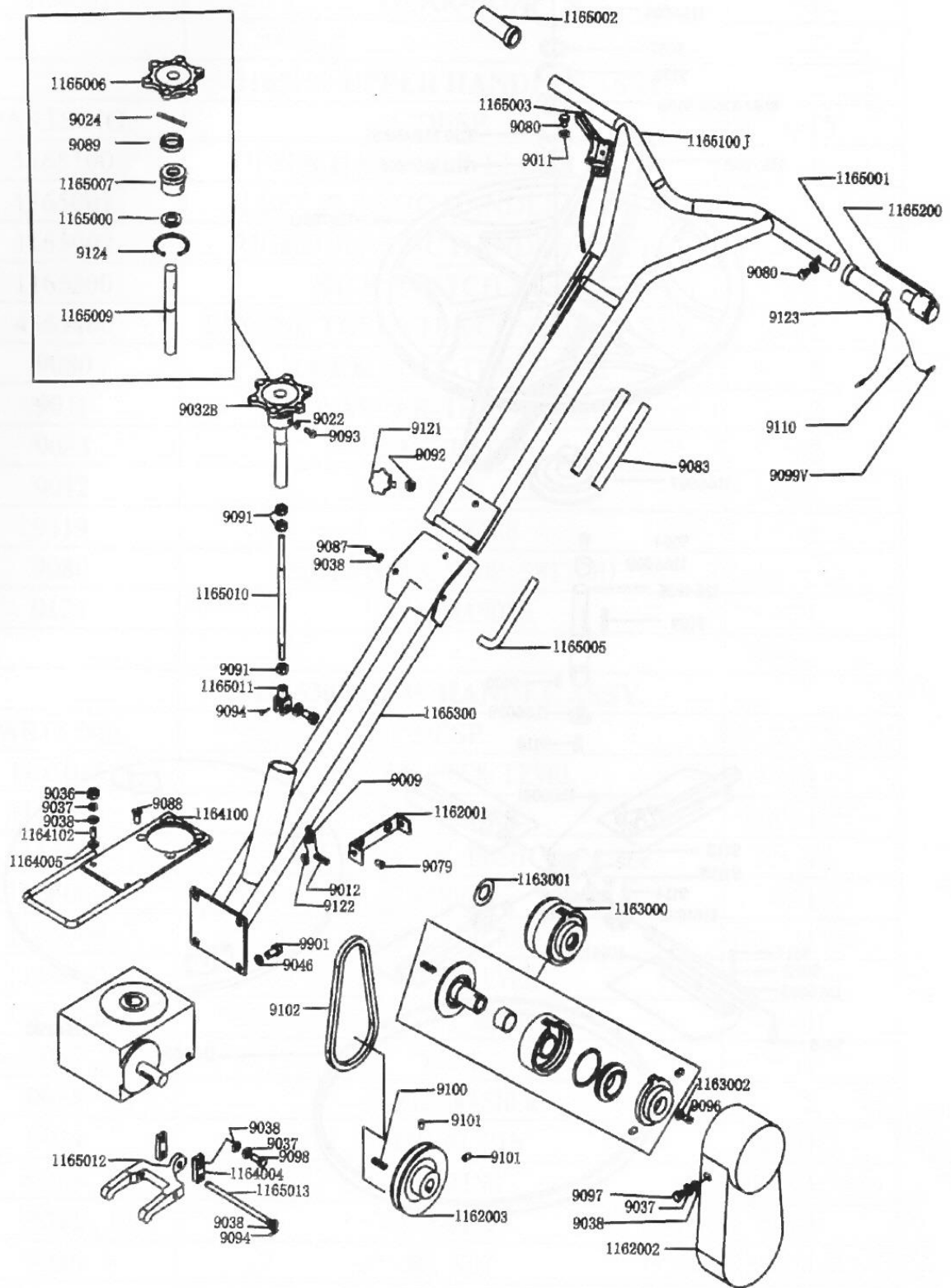


## **TROWEL FINISHER SERIES-----TROUBLESHOOTING**

1. Engine running rough or not at all.  
Kill switch off or malfunctioning? Make sure that the kill switch is on or replace switch if necessary.
  
2. Other problems? Consult engine manufacture's manual.  
Safety kill switch not functioning.  
Loose wire connections? Check wiring. Replace switch if necessary.
  
3. Bad contacts? Replace switch.  
Clutch slipping or sluggish response to engine speed change.
  
4. Worn belts? Replace.
  
5. Dirty centrifugal clutch? Disassemble and clean the clutch.
  
6. Worn out centrifugal clutch? Replace entire clutch.
  
7. Hand clutch out of adjustment? Adjust as per instructions in maintenance section.
  
8. Worn hand clutch parts? Replace parts as necessary.

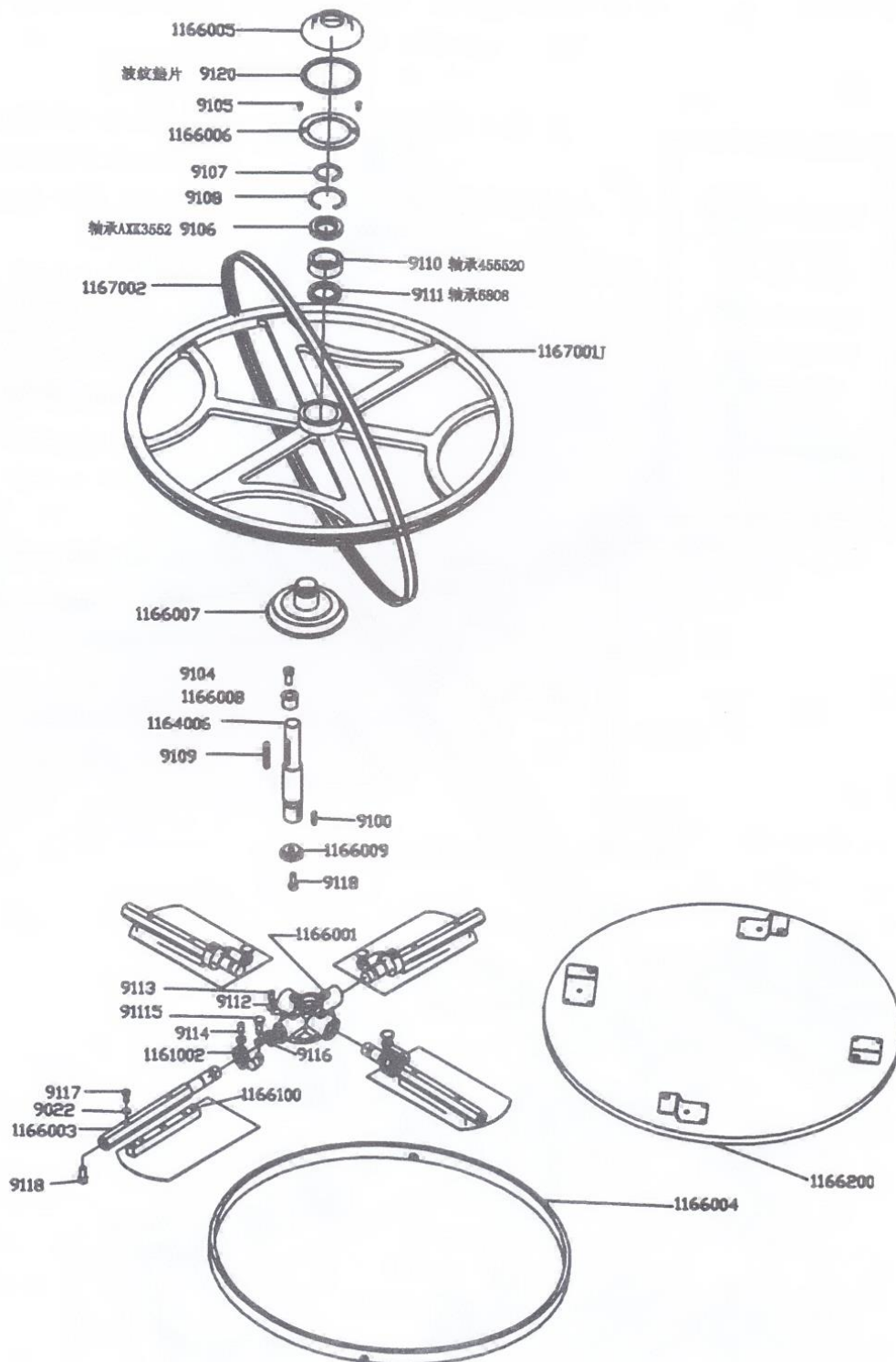


# Spare parts – Handle





## Spare parts – Circle's protection



## **List of spare parts**

PARTS NO.	DESP.	QTY
1165100	TOP HANDLE ASSY.	1
1165300	BOTTOM HANDLE ASSY.	1
4363000	CLUTCH ASSY	1
1164001	GEAR-BOX	1
	<b>1165100 UPPER HANDLES ASSY.</b>	
PARTS NO.	DESP.	QTY
1165100	UPPER HANDLE WELDER PARTS	1
1165001	LEFT PLASTIC HANDLE COVER	1
1165002	RIGHT PLASTIC HANDLE COVER	1
1165200	STOP SWITCH ASSY.	1
4365400	ENGINE THROTTLE CONTROL ASSY.	1
9080	LOCK BOLT-THROTTLE	3
9011	WASHER-THROTTLE	2
9083	PLASTIC PIPE	2
9012	STOP WIRE PLUG	1
9119	STOP WIRE	1
9080	SCREW(LOCK STOP SWITCH)	1
9121	LOCK HANDLE	1
	<b>1165300 LOW HANDLE ASSY.</b>	
PARTS NO.	DESP.	QTY
1165005	HANDLE LOCK LEVEL	1
1165006	NUT HANDLE	1
1165007	GUIDE BUSH	1
1165008	WASHER	1
1165009	ADJUST SCREW	1
1165010	ADJUST LEVEL	1
1165011	ADJUST BASE	1
9087	BOLT	1
9038	PLATE WASHER	2
9024	SPRING PIN	1
9089	BEARING	1
9091	NUT	3
9036	M8 NUT	1
9093	BOLT	1
9022	SPRING WASHER	1
9094	LOCK PIN	3
9090	SHAFT PIN	1

1162001	BELT COVER MOUNTING BASE	1
1162002	BELT COVER	1
1164100	ENGINE MOUNTING BASE PLATE ASSY.	1
1164101	ENGINE MOUNTING BASE PLATE	1
1164102	ENGINE MOUNTING BOLT	4
1164003	RIGHT CONNECTOR OF YOKE ARM	1
1164004	LEFT CONNECTOR OF YOKE ARM	1
1162003	PLULLEY	1
1163001	WASHER OF CLUTCH	1
1165012	YOKE ARM	1
1165013	SHAFT OF YOKE ARM	1
1164005	WASHER ENGINE MOUNTING	4
9096	BOLT	1
9097	COVER SCREW	2
9038	PLATE WASHER	10
9037	SPRING WASHER	8
9088	PLATE BOLT	4
9100	WOOD KEY	1
9101	LOCK SCREW	2
9102	BELT	1
	<b>1166005 AL WHEEL ASSY.</b>	
<b>PARTS NO.</b>	<b>DESP.</b>	<b>QTY</b>
1166005	PRESS PLATE COVER	1
1166006	ANTI WORN WASHER	1
1167001J	AL WHEEL	1
1167002	<b>T BELT</b>	1
1166007	PRESS PLATE	1
1164006	MAIN SHAFT	1
1166008	TIGHTEN SPACER OF SHAFT	1
1166009	CROS BASE LOCK SPACER	1
9104	bolt	1
9105	BOLT	2
9106	BEARING	1
9107	SPACER	1
9108	LOCK	1
9109	KEY	1
9100	KEY	1
9110	BEARING AL WHEEL	1
9111	BEARING	1
9120	WAVE SPRING WASHER	1
1166001	CROSS BASE	1

1161002	ARM	4
1166003	BLADE SHAFT	4
1166004	position spacer	4
1166100	<b>BLADE SET</b>	1
1166200	<b>PAN</b>	1
9112	NUT	12
9113	SCREW	4
9114	SCREW	4
9115	screw	4
9116	OIL SEAL	4
9117	BOLT	8
9118	BOLT	5
9022	<b>SPRING WASHER</b>	5



## Conformity Declaration CE

Conforms to the II A Attached, of the 2006/42 CE Directive  
Conforms to the II Attached, of the 2000/14 CE Directive

The **ISOPLAM S.r.l.** company

With legal head office in E.Mattei, 4 31010 Coste di Maser (TV) Italy

DECLARES

Under its exclusive responsibility

That the machine **CONCRETE POWER TROWEL**  
Type **L030001 - L030003**  
Serial number N. **REVOLVING CIRCLE**

It is according with the conditions foreseen from the directives (and further modifications)

**2006 / 42 / CE**

*Concerning the rapprochement of the legislations of the member States relative to the machines.*

**2014 / 30 / CE**

*Concerning the rapprochement of the legislations of the member States relative to the electro-magnetic compatibility.*

**2014 / 35 / CE**

*Concerning the rapprochement of the legislations of the member States relative to the electric material assigned to be used within some limits of voltage.*

**2000 / 14 / CE**

*Ambient acoustic emission of machines and equipment for the open work.*

Level of sonorous powering of measured similar machine: 102 dBA (petrol version) . 74 dBA (electrical version)  
Level of sonorous guaranteed powering for the equipment: 102 dBA (petrol version) . 74 dBA (electrical version)  
(D.Lgs. n.262/2002)

Urbino,

Signature  
The Representative Legal

## PROHIBITION OF PUTTING IN SERVICE

*It cannot be put in service, after to have undergone the constructive modifications or integrations of other components not falling within the ordinary or extraordinary maintenance, without that it is still declared according to the requirements of the directives: 2006/42/CE, 2014/30/CE, 2014/35/CE and 2000/14/CE to other directives of reference and to the norms in force.*

Date,

The Owner

## SECURITY NORMS

The machine has been realized in according with the security norms under indicated:

<b>UNI EN ISO 12100-1</b>	Security of the machinery - Fundamental concepts, general principles of planning. . (Part 1: Terminology of base, methodology).
<b>UNI EN ISO 12100-2</b>	Security of the machinery - Fundamental concepts, general principles of planning. . (Part 2: Technical principles).
<b>UNI EN ISO 13857:2008</b>	Security of the machinery . Distance of security to prevent the achieving of dangerous areas with superior limbs.
<b>UNI EN 953:2009</b>	Security of the machinery . Shelters . general requirements for the planning and the building of fixed and movable shelters.
<b>CEI EN 60204-1</b>	Security of the machinery . Electric equipment of machines (Part I: general Norms)



## Conformity Declaration of the European Norms

ENCLOSURE: List of the security essential requirements which the machine is accordance

The machine is accordance with all security requirements estimated and listed as follows:

- 01 GENERAL PRECAUTIONS: Improper use of the machine; user position; materials and products; Illumination.
- 02 TRANSPORT: The machine planning in order to the transport.
- 03 INSTALLATION: Security and dependability; control devices; starting; stop devices; failure of the circuit of energy power unit; due risks at extreme temperatures; due risks at the noise.
- 04 MECHANICAL: Stability; break risks during the working; due risks of objects protection; due risks to surfaces, edges and angles; due risks at the vibrations; due risks at the accidents and explosions; due risks to the noise.
- 05 PROTECTIONS: General requirements; risks of the fixed protections; risks of duration.
- 06 THE ENERGY SOURCES: Due risks at energy type.
- 07 MAINTENANCE AND MOUNTING: Due risks to the mounting mistakes; machine maintenance; user intervention.
- 08 POWDERS AND GAS EMISSIONS: Due risks to the powders or gas emission.
- 09 CONTROL PLACE: Limits to the machine use; due risk to the visibility; risk to stay trapped in the machine.
- 10 RISKS AND RESIDUALS: Signalling and warning on the user manual; use of suitable nameplates and adhesives.

The lacking necessary security requirements that are listed in the Norm 2006/42/CE - Enclosure 1, aren't connected with constructive and functional principles of this machine.

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[www.isoplam.it](http://www.isoplam.it)  
[info@isoplam.it](mailto:info@isoplam.it)