

MANUAL

IVC-V3



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1. Introduction

1.1 Summary

Together with XINGYI's floor grinders, XINGYI's dust collector is designed to create as dust-free environment as possible in conjunction with the dry grinding of stone and concrete floors. The dust sucked up is collected in, for example, a bag system. Read the manual carefully so that you know how to use and maintain the dust collector before using it. Contact your local retailer for further information. For contact information, see Contact Us at www.xingyimachineusa.com

1.2 Liability

We make every effort to make this manual as complete and accurate as possible, and we are not responsible for any errors or loss of information. XINGYI reserves the right to change the instructions in this manual without prior notice.

This manual is protected by copyright law and cannot be reproduced or used in any part without the express written consent of XINGYI.

1.3 Warranty

This warranty only covers manufacturing defects. XINGYI bears no responsibility for damage that arises or occurs during transportation, unpacking or use. In no instance and under no circumstances shall the manufacturer be held responsible for damage and defects caused by incorrect use, corrosion or use outside the prescribed specifications. The manufacturer is not responsible for indirect damage or costs under any circumstances. For complete information on the manufacturer's warranty period, see XINGYI MACHINE USA's current warranty terms. Local distributors may have special warranty terms specified in their terms of sale, delivery and warranty. If there is any uncertainty regarding warranty terms, please contact your dealer.

1.4 Safety

This manual indicates the important information / rules that must be observed when using XINGYI's machine.

Operation Safety

Users of machines from XINGYI have the ultimate responsibility for ensuring that everybody who works with or in the vicinity of the equipment follows all applicable safety rules. Safety measures must meet the requirements that apply to this type of equipment. Apart from the standard rules that apply in the workplace, the recommendations in this manual shall also be observed.

All work must be performed by trained personnel. Users of machines from XINGYI must have read through the dedicated manual for the machine. Incorrect use of the equipment could result in situations that could cause harm to the operator, the surroundings, or the machine.

Machines from XINGYI may only be used in the way recommended by XINGYI. Machines from XINGYI may only be used for commercial purposes.

Anyone using the machine shall know about:

- its functions
- location of emergency stops
- the safety rules for the work

General precautions:

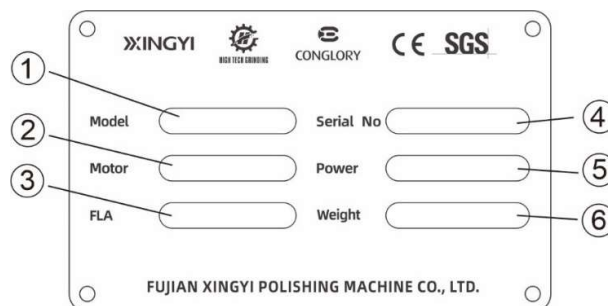
- Check the machine is connected to a grounded power supply.
- Work on live parts shall only be performed by qualified personnel.
- Suitable fire extinguishers should be clearly marked and close to hand.
- Maintenance of the equipment must not be performed during operation.

Electrical Safety

- Work on live parts shall only be performed by qualified personnel.
- The cables and connectors shall meet the machine's specifications.
- The machine is equipped with an overload protector. Once the overload protector has tripped, power off and then power in to restart it.
- Check the cords before powering in. Any broken cords may cause a serious accident.
- The wires should be away from the high temperature surfaces.
- Keep motor, electrical box, inverter away from water.

1.5 Machine name plate

The machine name plate provides the following information. The model and serial number must be specified when ordering spare parts for the machine.



1. Model name	2. Rated power
3. Full load amps	4. Serial number
5. Rated voltage, phase, frequency	6. Weight

2. Machine Description

2.1 General information

The machine is a dust collector for industrial and building use intended for the dry vacuuming of dust particles, e.g. concrete, wood, stone etc. It is equipped with a two-stage filter system, a coarse filter followed by three fine filters, as well as a filter pulse cleaning system that increases the service life and maintains the performance of the dust collector.

3 independent motors provide significant power and CFM. Working with two of 3 motors or all three motors copes with different operating environments.

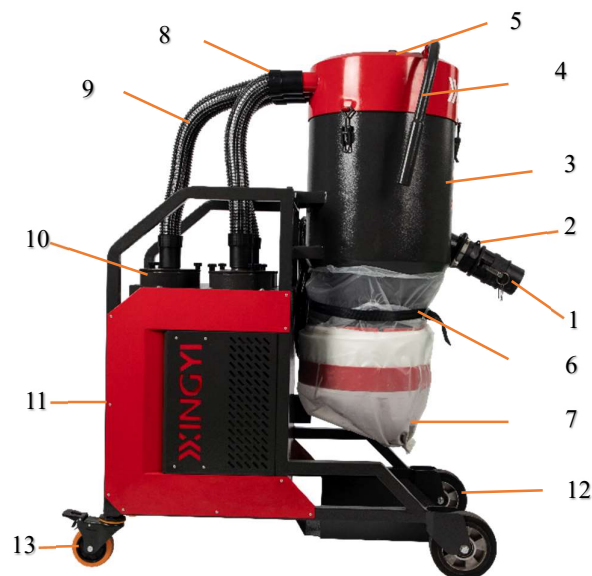
To handle the collected dust, a bag system is used on the dust collector.

2.2 Standard delivery

The machine will go with the following items. If anything is lost, please contact your dealer.

- A dust bag on the dust collector
- female power connector, 1 (male connector on the machine)
- 30' cord
- A kit of vacuum wand

2.3 Machine overview



- | | |
|--------------------------|----------------------------|
| 1. 2" inlet unit | 5. Filter cleaning valve |
| 2. Inlet valve | 6. Strap |
| 3. Coarse filter chamber | 7. Drop-down fold bag unit |
| 4. Filter purge handle | 8. 2" hose connector |

9. 2" hose

12. Rear wheel

10. Fine filter

13. Front caster, lockable

11. Fine filter & electric cabinet

2.4 Control cabinet



1. on-off switch: turn on or off each motor.

2. breaker: Once the machine is overloaded and shut off, unplug it and press the breaker, and plug the machine.

3. pressure gauge: When the reading is over 1500 kPa, the filter should be cleaned. Indicates pressure. When the negative pressure is too great (>1500), suction blocked. Risk of the motor shutting off due to overheating. It is time to clean the filter.

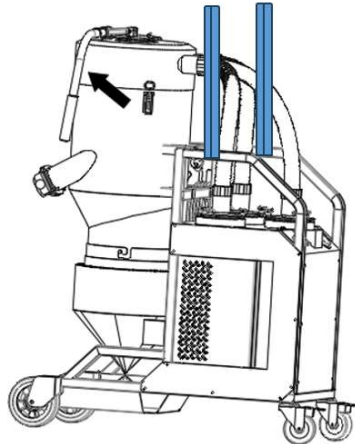
3. Transport & Storage

3.1 Transport & lifting

Always ensure that the dust collector is emptied of dust and other particles before it is transported, lifted or hoisted.

When being moved with a forklift, always place the forks under the protection bar. Always make sure that the dust collector is securely anchored to its surroundings and that the two front casters are in the locked position during transport to prevent it from moving during transport.

When lifting the machine, use 2 approved lifting straps at the lifting points on the machine.



3.2 Storage

The dust collector should be stored in a heated, dry area when not in use. Otherwise, it may be damaged by condensation and cold. The dust collector's dimensions and weight are given in chapter technical data.

4. Operation

4.1 Hose connection

XINGYI provides a 3 to 2" quick connector for quick, easy and safe connection of the dust hose between the grinding machine and dust collector or other accessories that are to be used for dust collection.

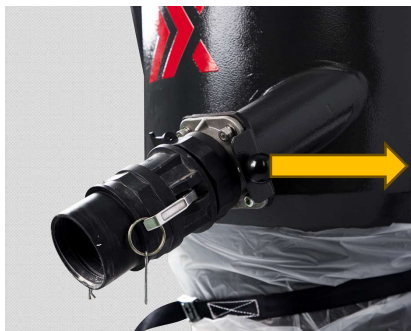
4.2 Starts or stops

Plug in the power supply to the machine. Be sure it is the correct voltage for your machine. Press the on-off switch to turn on each of the motors. You can keep all 3 motors working or 2 of them depending on the working situation. When finish work, turn off the motors.

4.3 Filter cleaning

To clean the filter, pull out the inlet valve **1** so that the inlet valve closes and the air flow into the coarse filter chamber ceases, and a greater negative pressure is built up. Lift the filter purge handle **2** to open the filter cleaning valve **3**, so the air will flow through the filter to clean the filter. Release the handle to close the filter cleaning valve **3**. Repeat it after a 10 second interval (to build up the negative pressure) until cleaning the filter. It is recommended to clean the filter every 30 mins depending on the working conditions.

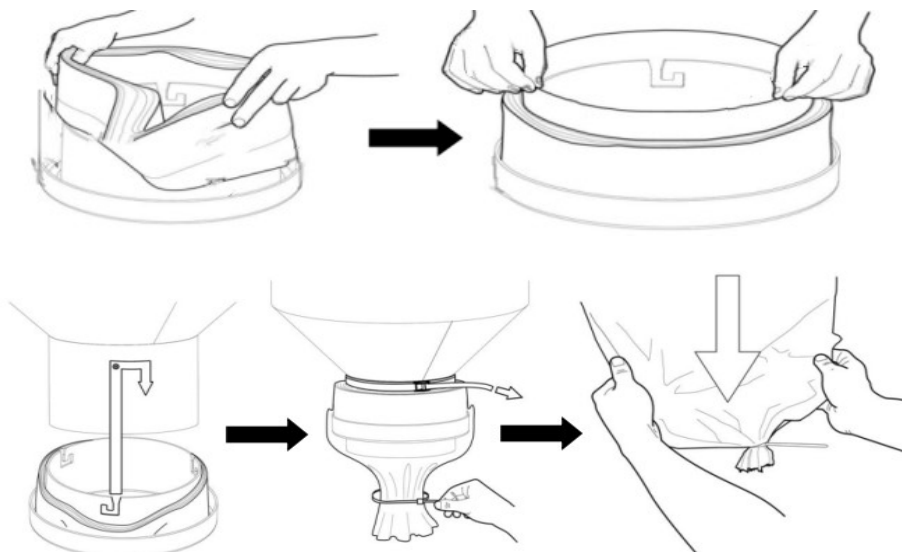
On the display of pressure gauge, check that the desired filter status is achieved after cleaning. Otherwise, clean again. If the reading is above 1500, dust is stuck in the filter and the filter must be cleaned or replaced.



4.4 Replacing the dust bag

The dust extractor is equipped with a bag system that makes it possible to minimize dust exposure when changing dust bags. This bag system can be ordered. Please contact your XINGYI retailer.

Place the bags in the holder and install on the container. Pull up the inner part of the bag and tighten with the strap. Seal the lower part with a tie. Pull out a new length of empty bag down to the collection plate.



When the bag is full, pull out the bag and install two ties up the full bag and cut off between the two ties.



5. Maintenance

We recommend regular inspection of the dust collector.

5.1 Cleaning the dust collector

- Vacuum the dust collector.
- Perform filter cleaning and empty the machine of dust.
- Then clean the dust collector after use with a damp sponge or cloth.
- Only use water.

5.2 Daily maintenance

- Check that the dust bags are intact.
- Check that the inlet valve is not damaged.
- Check the filter status.
- Check that accessories such as hoses that connect to the dust collector are intact and do not have any cracks.
- In addition, make sure that the air flow is unobstructed and that there are no blockages.

5.3 Weekly maintenance

- Check for leaks.
- Place your hand over the inlet and make sure it goes up to 1500 kPa.
- Inspect sealing rubber strips and surfaces for cracks or damage.
- Check for unusual dust build up.
- Also check for cracks or other irregularities.
- Check filter cleaning valve.
- Check side duct fan
- If necessary, vacuum up any dust on visible parts of the side duct fan. Dust around the fan can cause overheating.
- Also listen for noise from the side duct fan.

6. Filter Replacement

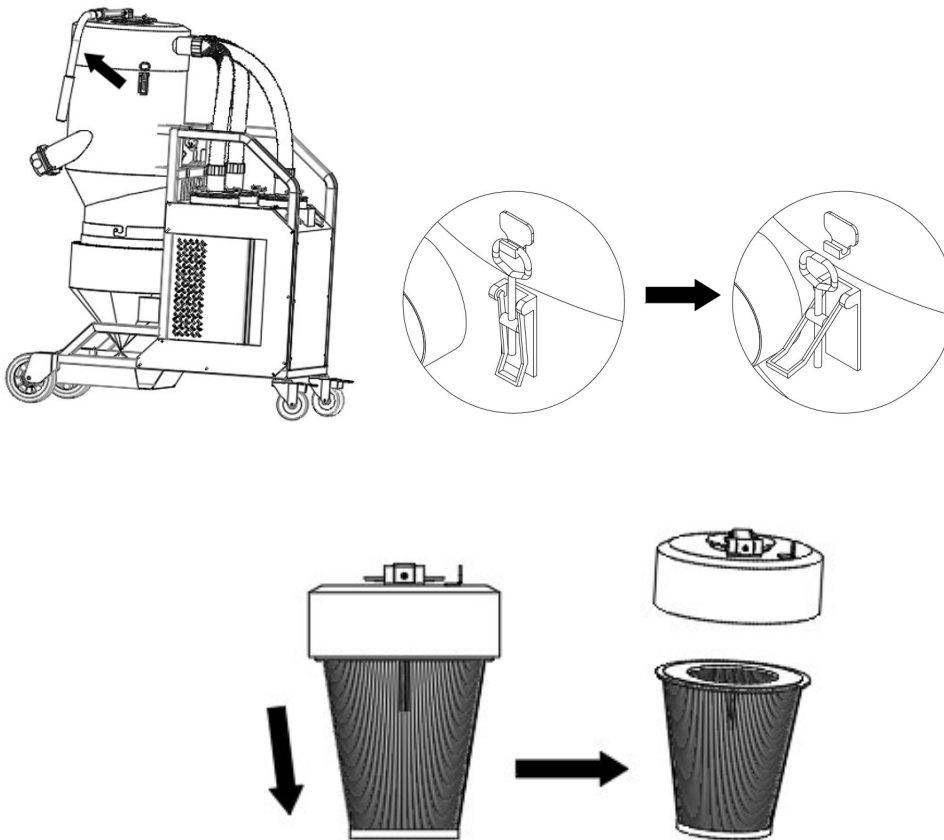


Warning!

The dust that is sucked up may be harmful if inhaled. Follow local regulations and use breathing protection.

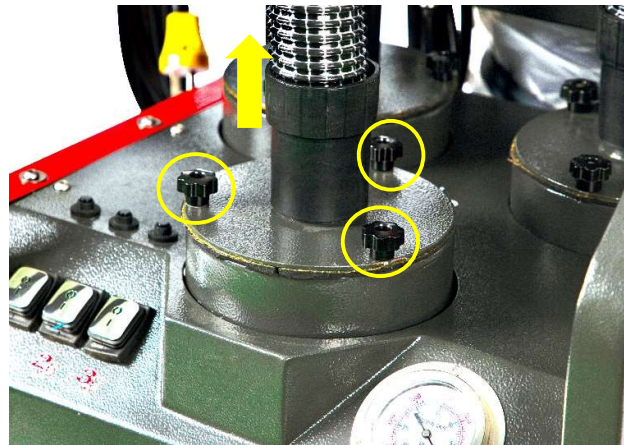
6.1 Replace coarse filter

To check the coarse filter, start by disconnecting the hose to the coarse filter. Remove the lock ring, pull the whole cone over to reduce contact with dust particles. Loosen the three locks on the filter cover and turn it counterclockwise to remove the cover. Check the inside of the coarse filter. In the event of dust, replace the filter. Use a bag here to protect against dust particles.



6.2 Replace fine filter

3 fine filters are equipped in the filter & electric cabinet. To check the fine filter, start by disconnecting the hose to the fine filter. Remove the 3 nuts on the cover, pull the whole cylinder over to reduce contact with dust particles. Check the inside of the fine filter. In the event of dust, replace the filter. Use a bag here to protect against dust particles.



7. Motor Protection

Three independent motors are equipped below each fine filter in the electric cabinet. When the motor draws too much current or if the motor protection gets hot.

- Check whether the suction system is blocked (negative pressure is displayed on the screen).
- Disconnect the machine from the mains power supply.
- Clean the motor/control cabinet (wait a while before opening the control cabinet).
- Close the control cabinet, connect the machine to the mains power supply and start the machine

8. Troubleshooting

Problem	Problem cause	Action
The machine will not start		Check the power supply and power connections.
		Check the motor breaker.
		Contact licensed electrician
		Check the circuit board fuse.
The performance is poor	The vacuum system is not sealed.	Check each sealing location.
	The hose is blocked.	Check the pressure gauge and clean out the hose.
The machine is blowing dust	The filter element is broken	Replace with new filter.

9. Technical Data

IVC-V3		
Power	3.3 KW /4.5 HP	
Rated Voltage (V)	220V	110V
Rated current (Amp)	14	26
Input frequency	50HZ/60HZ	
The maximum suction	22 Kpa/220 Mbar	
CFM	315	
Hose	2" / 50 mm	
Recommended minimum cable mm ²	2.5	
First-stage Filter	2.8 m ² >99.5%@0.5μm, HEPA H12	
Second-stage Filter:	3*0.6 m ² >99.9%@0.3μm, HEPA H14	
Weight (lbs.)	180	
Noise	85db	
Dimensions(L-W-H)	20"-40"-51"	

10. Dimensions

