

OPERATION MANUAL

DUST COLLECTOR **WINTER DUSTMAX 5000**



WARNING!

***The operator must thoroughly read this manual before operation.
Keep this manual for future reference.***

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1. GENERAL INFORMATION

1.1 FOREWORD

This machine is designed to make straight and angle cut for wood material, especially for wood board cutting.

Some information and illustrations in this manual may differ from the machine in your possession, since all the configurations inherent in the machine complete with all the optionals are described and illustrated. Therefore, refer only to that information strictly connected with the machine configuration you have purchased.

With this manual we would like to provide the necessary information for maintenance and proper use of the machine. The distribution network is at your service for any technical problem, spare parts or any new requirement you may have for the development of your activity.

This manual must be read and understood before operating the machine. This will provide a better working knowledge of the machine, for increased safety and to obtain the best results.

To facilitate its reading, the manual has been divided into sections pointing out the most important operations. For a quick research of the topics, it is recommended to consult the index. To better stress the importance of some basic passages, they have been marked by some preceding symbols:



WARNING

Indicates imminent risks which may cause serious injury to the operator or other persons. Be careful and scrupulously follow the instructions.



CAUTION

A statement advising of the need to take care lest serious consequences result in harm to material items such as the asset or the product.

1.2 MACHINE IDENTIFICATION

There is an identification plate fixed to the machine, containing the manufacturer's data, year of construction, serial number and technical specifications.

1.3 CUSTOMER SERVICE RECOMMENDATIONS

Apply the machine to skilled and authorized technical staff to carry out any operation dealing with parts disassembly. Keep to the instructions contained in this manual for the correct use of the machine.



CAUTION

Only skilled and authorized staff shall use and service the machine after reading this manual. Respect the accident prevention regulations and the general safety and industrial medicine rules.

2. SAFETY PRECAUTIONS

2.1 SAFETY REGULATIONS



WARNING

Read carefully the operation and maintenance manual before starting, using, servicing and carrying out any other operation on the machine.

The manufacturer disclaims all responsibilities for damages to persons or things, which might be caused by any failure to comply with the safety regulations.

- Unskilled people must stop off the working and security area of the machine.
- In order to prevent the particular dangers connected with this machine typology, the operator should always read carefully the directions for use.
- Use the dust collector only after connecting it with its tubes.
- Never work under the effect of alcohol, medicines or drugs.
- Wear fastened working clothes, security sunglasses and shoes, keep long hair in a knot.
- Never wear watches, bracelets or rings while working.
- It is important to keep this booklet for future reference.
- The machine operator shall have all necessary prerequisites in order to operate a complex machinery.
- It is prohibited to use the machine when under the influence of alcohol, drugs or medication.
- All the operators must be suitably trained for use, adjustment and operation of the machine.
- The operators must carefully read the manual paying particular attention to the warning and safety notes. Furthermore, they must be informed on the dangers associated with use of the machine and the precautions to be taken, and must be instructed to periodically inspect the guards and safety devices.
- Before carrying out adjustment, repair or cleaning work, disconnect the machine from the electric power by setting the main switch to stop.
- After an initial bedding-in period or many hours of operation, the driving belts may slacken; this causes an increase in the tool stopping time (the stopping time must be less than 10 seconds). Immediately tighten them.
- The working area around the machine must be kept always clean and clear, in order to have an immediate and easy access to the switchboard.
- Never insert materials which are different from those which are prescribed for the machine utilization. The material to be machined must not contain any metal parts.
- Never machine pieces which may be too small or too wide in respect to the machine capacity.
- Do not work wood which has evident defects (cracks, knots, metal parts, etc.)
- Carefully clean the rest surfaces of tools and make sure that they find perfectly horizontally positioned, and with no dents at all.
- Always wear gauntlets when handling the tools.
- Mount the tools in the right machining direction.
- Never start the machine before having correctly installed all the protections.
- Connect the dust suction hoods to an adequate suction system; suction must always be activated when the machine is switched on.
- Never open doors or protections when the machine or the system is operating.
- Many unpleasant experiences have shown that anybody may wear objects which could cause serious accidents. Therefore, before starting working, take any bracelet, watch or ring off.
- Button the working garment sleeve well around the wrists.
- Take any garment off which, by hanging out, may get tangled in the MOVING UNITS.
- Always wear strong working footwear, as prescribed by the accident-prevention regulations of all countries.
- Use protection glasses. Use appropriate hearing protection systems (headsets, earplugs, etc.) and dust protection masks.
- Never let unauthorized people repair, service or operate the machine.
- The manufacturer is not responsible for any damage deriving from arbitrary modifications made to the machine.
- Any transport, assembly and dismantling is to be made only by trained staff, who shall have specific skill for the specified operation.
- The operator must never leave the machine unattended during operation.
- During any working cycle break, switch the machine off.
- In case of long working cycle breaks, disconnect the general power supply.
- The operating method to be followed in the event of accident or breakdown, the machine should be turned off immediately and unplug from main power and ask for assistance for the authorized people. If a blockage is likely to occur, the workpiece should be moved back a little and enable the equipment to be safely unblocked.

2.2 RESIDUAL RISKS

Despite observance of all the safety regulations, and use according to the rules described in this manual, residual risks may still be present, among which the most recurring are:

- contact with tool
- contact with moving parts (belts, pulleys, etc..)
- recoil of the piece or part of it
- accidents due to wood splinters or fragments
- tool insert ejection
- electrocution from contact with live parts
- danger due to incorrect tool installation
- inverse tool rotation due to incorrect electrical connection
- danger due to dust inhalation in case of working without vacuum cleaner.

Bear in mind that the use of any machine tool carries risks.

Use the appropriate care and concentration for any type of machining (also the most simple).

The highest safety is in your hands.

2.3 SAFETY AND INFORMATION SIGNALS

This signals may be applied on the machine; in some cases they indicate possible danger conditions, in others they serve as indication.

Always take the utmost care.

SAFETY SIGNALS:



Risk of eye injury. Wear eye protection.



Wear hearing protection systems.



Danger of electric shock. Do not access the area when the machine is powered.



Carefully read and understand the manual before using the machine.

INFORMATION SIGNALS:

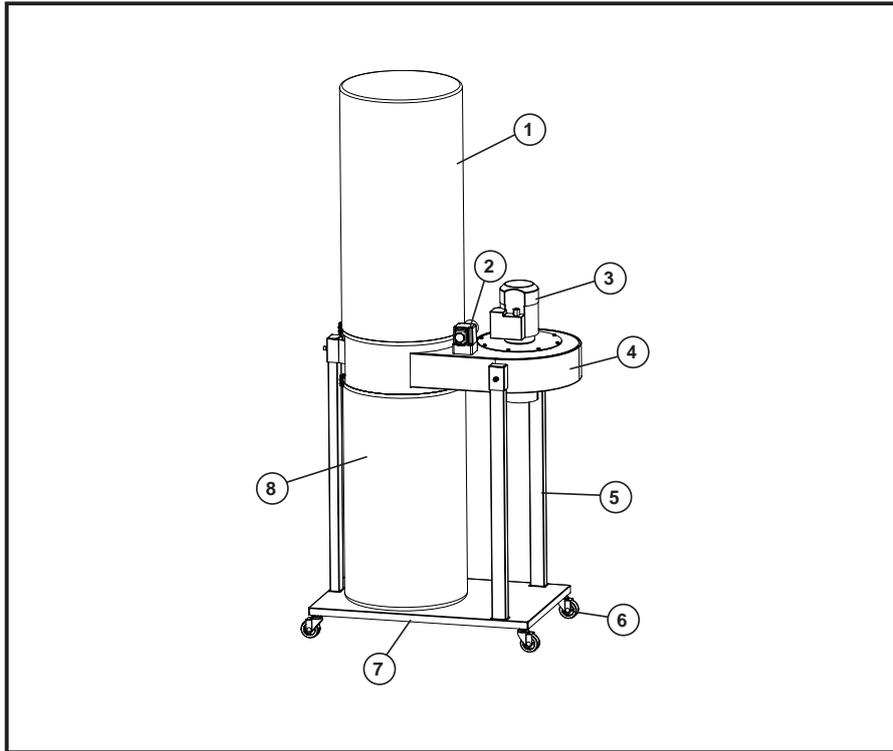
Indicate the technical characteristics, direction of rotation and inclination, block and release, etc.

Carefully following the directions to simplify the use and adjustment of the machine.

The signals are graphically described and do not require further explanation.

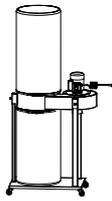
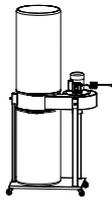
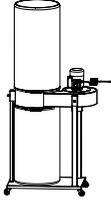
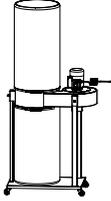
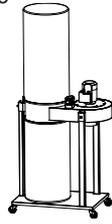
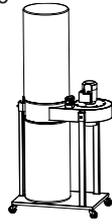
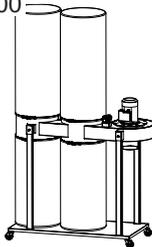
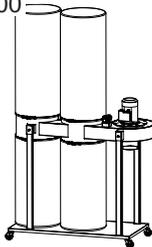
3. SPECIFICATIONS

3.1 MAIN COMPONENTS



- | | |
|----------------|--------------------|
| 1 - Filter bag | 5 - Column |
| 2 - Switch | 6 - Wheel assembly |
| 3 - Motor | 7 - Base panel |
| 4 - Frame | 8 - Collection bag |

3.2 TECHNICAL SPECIFICATION

Specification	DC1200		DC2000		DC3000		DC5000	
								
Motor	230V/50Hz	400V/50Hz	230V/50Hz	400V/50Hz	230V/50Hz	400V/50Hz	230V/50Hz	400V/50Hz
Motor power	550W		750W		1.5kW		2.25kW	
Current	3.5A	1.6A	4.3A	2.1A	8.7A	3.3A	13.5A	4.6A
Impeller diameter	230mm		260mm		305mm		330mm	
Bag diameter	450mm		450mm		500mm		500mm	
Air flow	1200cu.m/hr		2000cu.m/hr		3000cu.m/hr		5000cu.m/hr	
Suction hood diameter	100mm		150mm		150mm		200mm	
Filter bag length	870mm		870mm		1060mm		1210mm	
Collection bag length	805mm		875mm		940mm		1020mm	

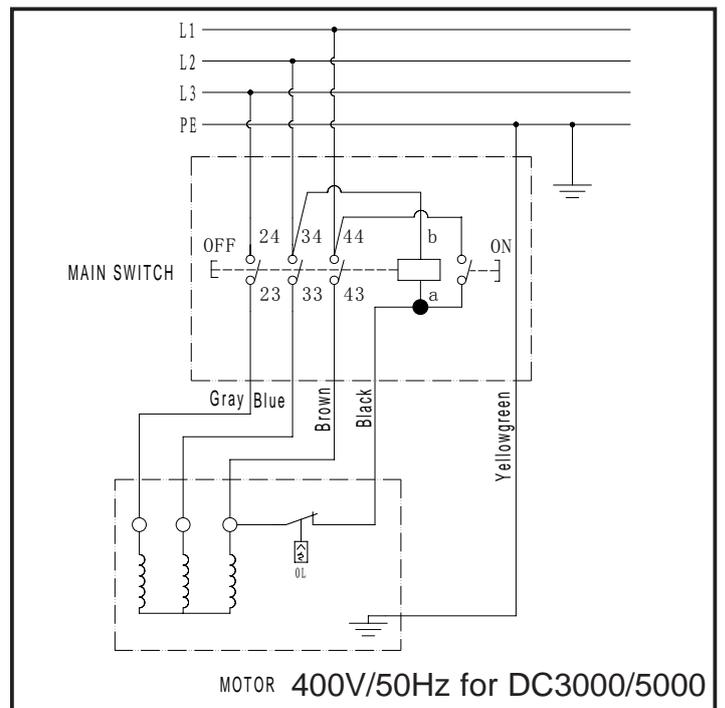
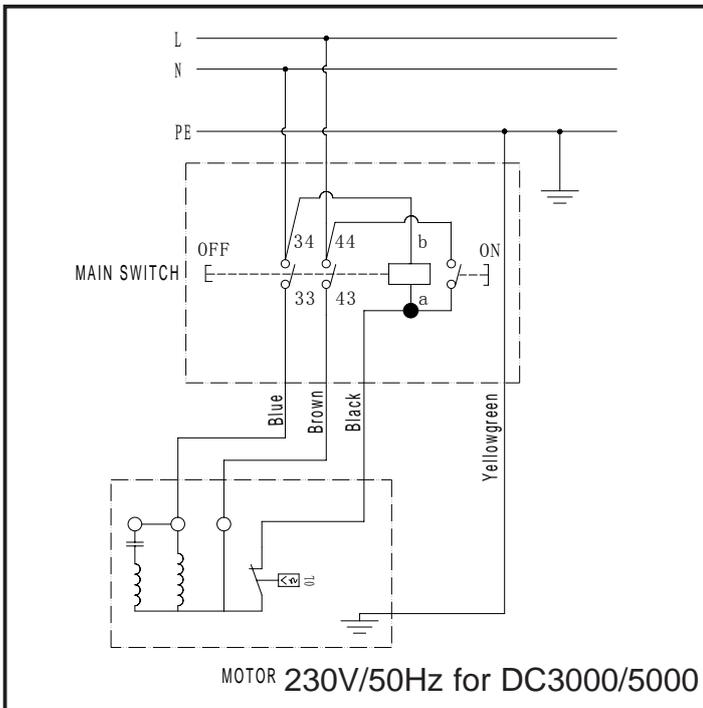
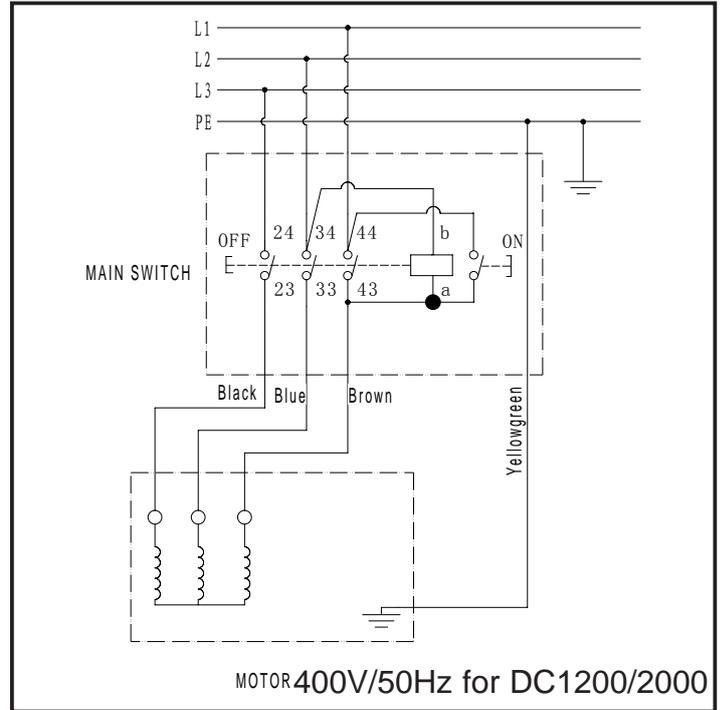
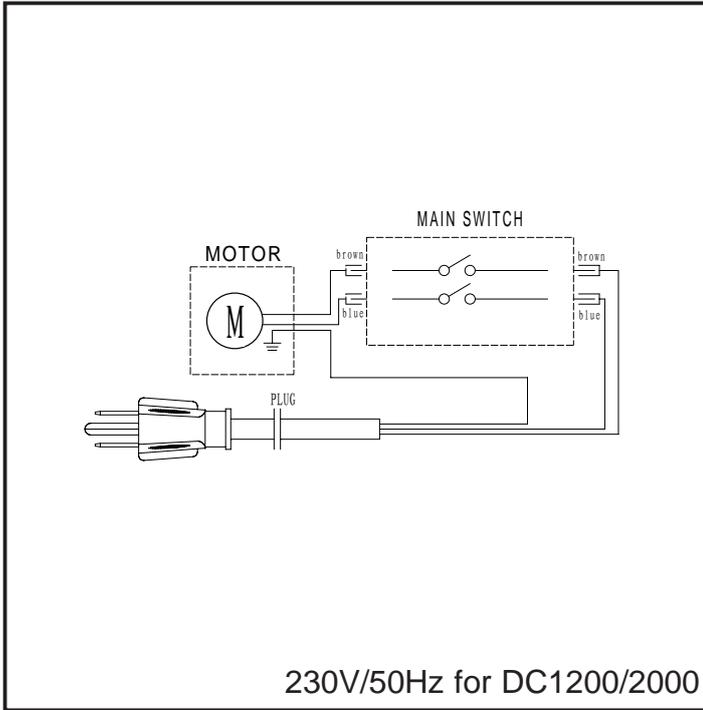
3.3 ELECTRICAL CONNECTION

- Electrical installation should be carried out by competent, qualified personnel.
- The mains connection should be made using the terminal box.
- Replacement of the power supply cable should only be done by a qualified electrician.



WARNING

To avoid electrocution or fire, any maintenance or repair to electrical system should be done only by qualified electricians using genuine replacement parts.



4. INSTALLATION



CAUTION

Assembly need to be done by an experienced and trained person.

4.1 DELIVERY OF THE DUST COLLECTOR

Check that the dust collector has not been damaged during transportation. In case of damage, promptly contact the retailer or forwarding agent. Check that the delivered dust collector corresponds to the one specified on the order. Check that the packing comprises all the parts specified on this booklet.

4.2 INSTALL OF LOOSE PARTS

A few elements will be disassembled from the machine main structure due to packaging and shipping requirements. These loose parts should be installed as follows.



WARNING

Please tighten all bolts and nuts absolutely. Otherwise, may cause machine wobble or serious injury to the operator or other persons.

4.2.1 INSTALL WHEEL AND COLUMN

- Install four wheels C to the base panel B.
- Install columns A to the base panel B with part 1,2 and 3.

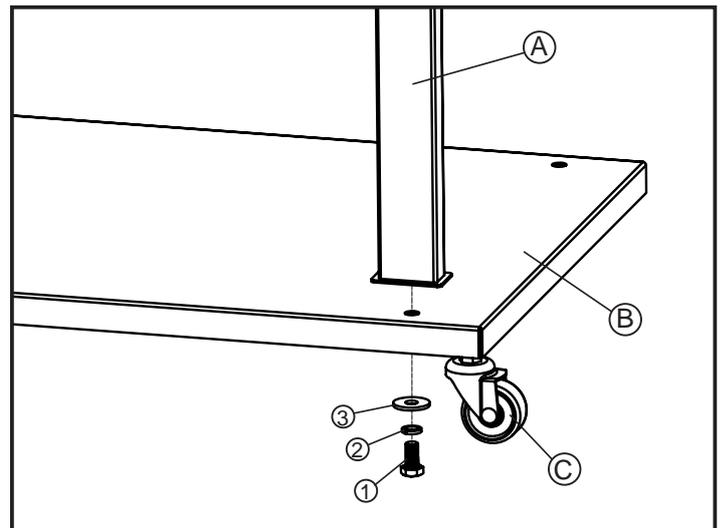


Fig.4.2.1

4.2.2 INSTALL FRAME TO COLUMNS

- Insert the columns A to the holder on frame B
- Lock it with Screw 1.

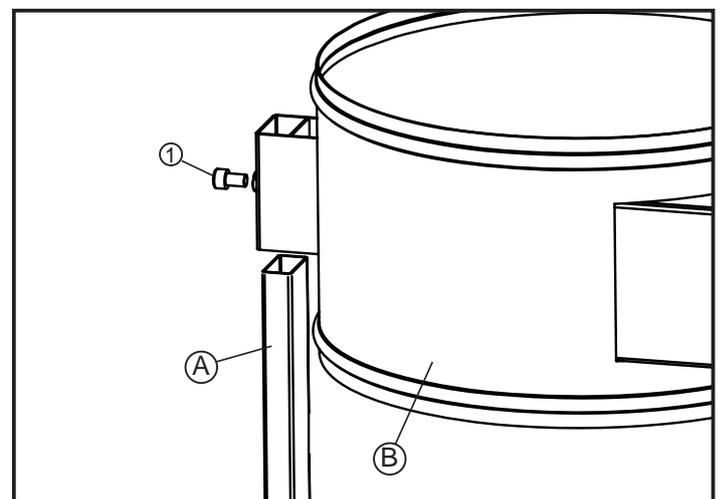


Fig.4.2.2

4.2.3 INSTALL BAG SUPPORTS

- Insert the rod A to top support circle B.
- Insert the lower side of the rod A to the holder of frame C.

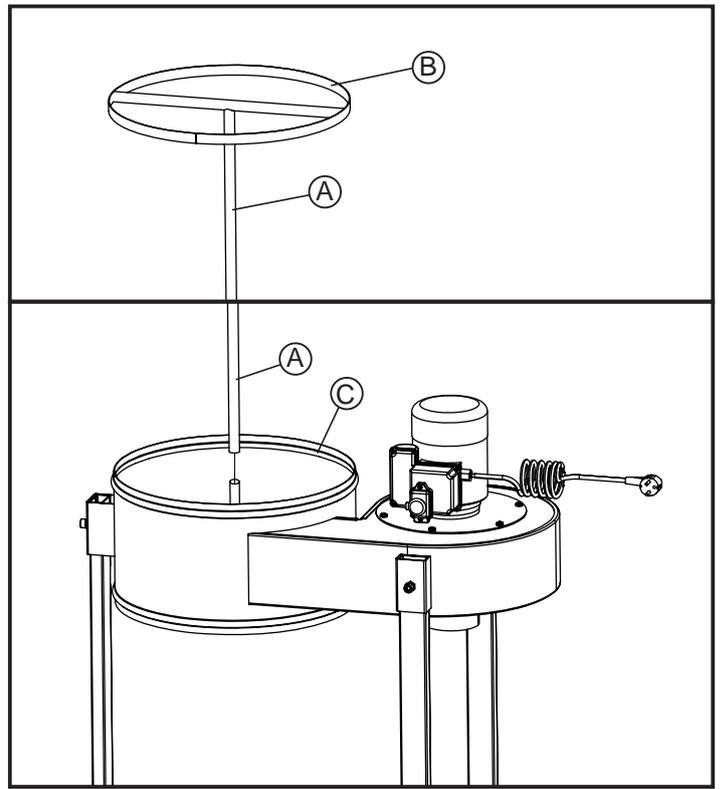


Fig.4.2.3

4.2.4 INSTALL FILTER BAGS

- Install the bags A&C, and lock it as the picture shown with clamps B

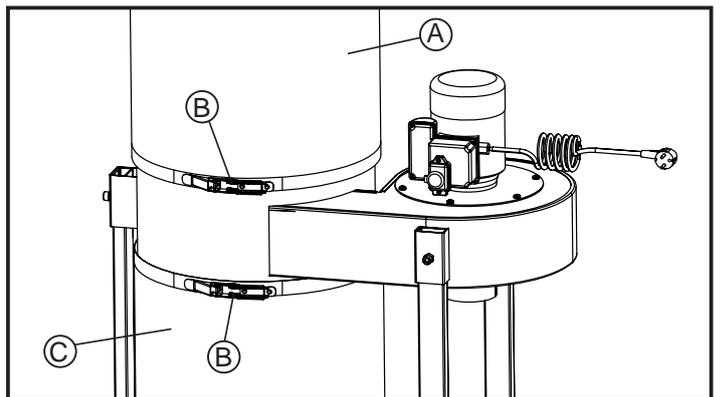


Fig.4.2.4

5. CONDITIONS

a) Electric connection

- The connection must be carried out by a skilled technician.
- Check that the electric installations of the workshop are equipped with a protection device against short-circuits.
- The connection between machine and line must be carried out only by means of a socket with standardized plug, with maximum carrying capacity of 16A and possibility of sectioning electric power.
- Before connecting the machine with the electric line, check that the line voltage corresponds to that indicated on the motor. If the machine has a three-phase motor, check that the propeller fan, visible through the box top, rotates according to the direction indicated by the arrow, giving an impulse to the switch. If the propeller fan rotates inversely, it is necessary to invert two cables in the connecting plug.
- One-phase motors, on the contrary, are already preset for the right direction of rotation.

b) Connection of the suction tube

- The dust collector must be connected with a suitable tube; in case of use of flexible tubes, these must be made of self-extinguishing and antistatic material.

NOTE: if the dust collector is mainly used with one operating machine, electrically connect this with the dust collector motor; you will always have the dust collector along with the on-going machine.

6. PREVENTION AND PROTECTION MEASURES

BEFORE STARTING WORK BY AN OPERATING MACHINE:

- Operations which cause the production of dusts (such as cutting, milling, grinding, etc.) should be carried out in separate areas.
- The operating machine must be fitted with suitable outlets near the source, and must be properly connected to an aspiration system with 20m/s speed for dried material and 28m/s for moist material.
Let external air flow into the working area so as to reduce the presence of pollutants by means of a good ventilation.
- Working areas should be cleaned often and it is essential to keep them in good order. We recommend daily cleaning of the area out of the working time, by using mechanical equipment and avoiding the use of brooms or compressed air.
- Before grinding, equip the machines with particularly effective aspiration devices for fine dusts.
- When particular conditions or working techniques do not guarantee sufficient protection, the employer must supply the staff with special PPE (personal protective equipment).
- Wood dust is combustible and, when suspended in the air, it may form a cloud, which may explode in case of air concentration higher than 40g/m³, lower flash point and presence of a primer.
- Use only tools in good order and in accordance with the rules EN847.1- EN847.2. Never work without the required protection devices and check their regular adjustment.

START THE ASPIRATION OF THE MACHINE DURING WORK:

- Use the required ear protections for long periods by the machine. Remove shaving residues only when the machine is off.

AFTERWORK:

- Never leave the machine on without the controlling staff until the machine has stopped completely. Clean the machine and the surrounding area.

NOTE: if the dust collector is mainly used with one operating machine, electrically connect this with the dust collector motor; you will always have the dust collector along with the on-going machine.

7. DIRECTION FOR USE

This dust collector is suitable for machines working wood or similar materials, such as cork or plastics. It can collect solid wood wastes and shavings from hardboard, fibre panels or plywood covered with laminate and plasterboard. It can also collect filaments from textile industry.

The machine is not suitable for collecting metals or substances impregnated with liquids. It is not suitable for collecting dust, fumes, gas or potentially explosive substances and/or for working in a potentially explosive atmosphere.

The filtering levels reported below are referred to thick dusts. Therefore, in case of collection of particularly fine dust, for which the unit is not suitable, performance values could be significantly lower.

Do not use the aspirator in presence of:

- fire
- explosive gases
- corrosive substances
- heavy vibrations
- water bolts

Any other use of the machine is to be considered as non compliant.

Operation, equipment and maintenance of the aspirator must be done only by skilled staff well acquainted with the security rules. The assignments for the equipment and the maintenance of the machine must be clearly defined.

It is necessary to conform to the rules for accident prevention, as well as to any other rule for security in technical activities and prevention of work accidents.

It is necessary to use only original spare parts; the producer does not provide any guarantee for defects caused by the use of non original or self-made spare parts. Furthermore, the producer declines all responsibility for unauthorized alterations of the dust collector.

The dust collector is assembled with cotton filtering sacks.

In case of collection of particularly fine dusts, it is necessary to substitute the filtering sack with another one made of thicker fabric, or install cartridge filters. The dust collector must be positioned out of the working area, in a room nearby.

The motor-driven fan can be mounted with downward or upward suction hood, therefore enabling to choose the best way to avoid bending of the connection tube to the operating machine, or to effect an aerial connection.

8. MAINTENANCE

Before any intervention on the dust collector, remove the electric connector from the socket.

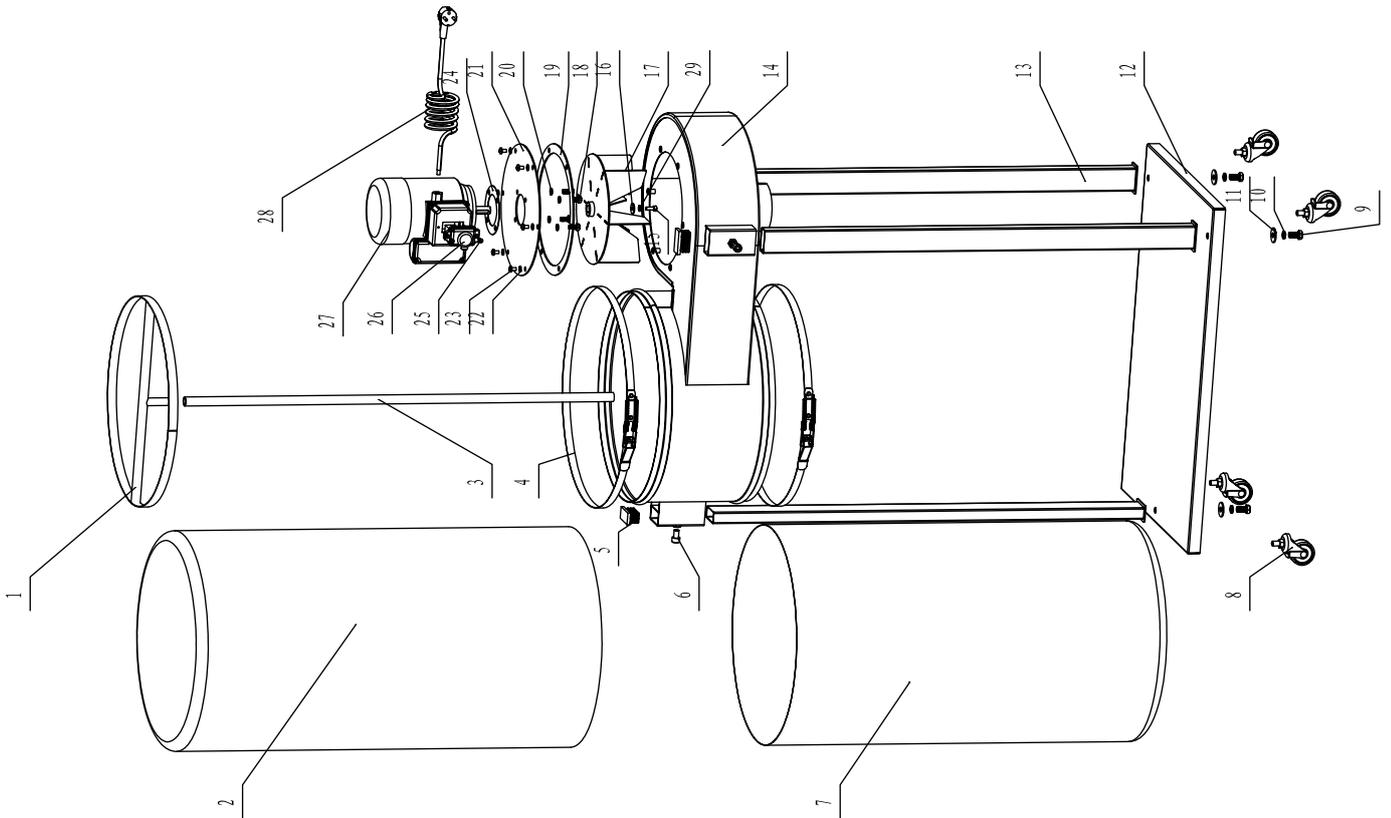
The electric motor does not need any maintenance as it is equipped with lubricated bearings.

Periodically check the state of the filtering sack; the fabric should never show signs of abrasion or damage. Empty the collection sack before it's filled up.

The filtering sack should be cleaned often, so as to guarantee maximum performance of the dust collector. It should be replaced if it is in a bad state.

When replacing the filtering sack, as the procedure might release dust in the environment, it is recommended to arrange in advance a suitable working area, so as to avoid damage caused by a spread of dust into the workshop.

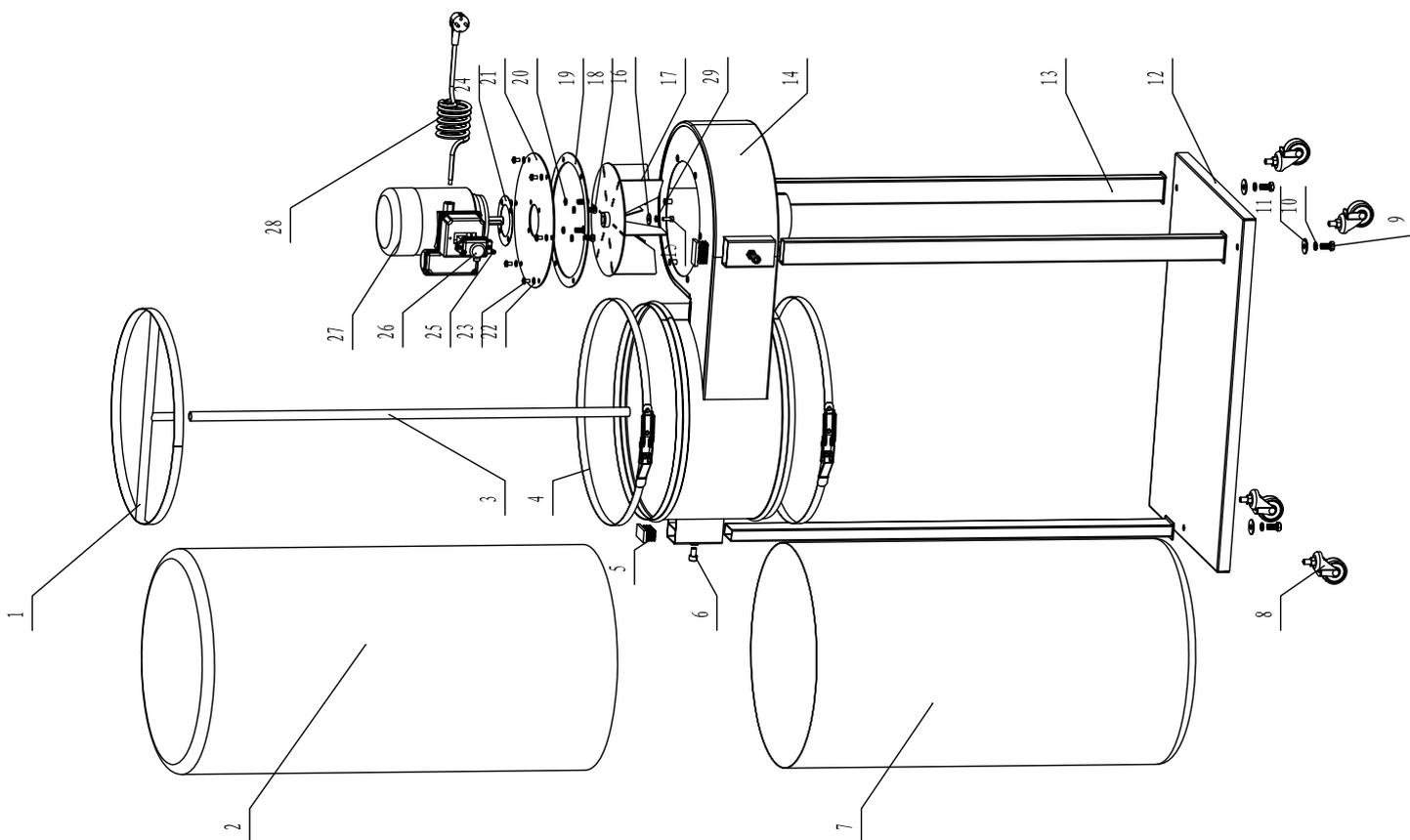
9. DIAGRAMS & COMPONENTS



No.	Description	Part No.	Qty.
1	Upper support	JMDC1201014000	1
2	Filter bag	JMDC1201031000	1
3	Rod	JMDC1201012500	1
4	Clamps	JMDC1201130000	2
5	End cap	JL81030008	3
6	Screw	GB/T70.1-2000	3
7	Collection bag	JMDC1201032000	1
8	Wheel	JMDC1201018000	4
9	Bolt	GB/T5781-2000	3
10	Spring washer	GB/T93-1987	3
11	Washer	GB/T96-1985	3
12	Base panel	JMDC1201011000	1
13	Column	JMDC1201013000	3
14	Frame	JMDC1201012000	1
15	Screw	GB/T70.1-2000	1
16	Washer	GB/T5287-1985	1
17	Fan	JMDC1201020000	1
18	Bolt	GB/T5781-2000	4
19	Rubber seal	JMDC1201016000	1
20	Spring washer	GB/T93-1987	4
21	Plate	JMDC1201015000	1
22	Washer	GB/T97.1-1985	6
23	Screw	GB/T818-2000	6
24	Seal	JMDC1201017000	1
25	Screw	GB/T845-1985	2
26	Switch		1
27	Motor		1
28	Cable		1
29	Spring washer	GB/T93-1987	1

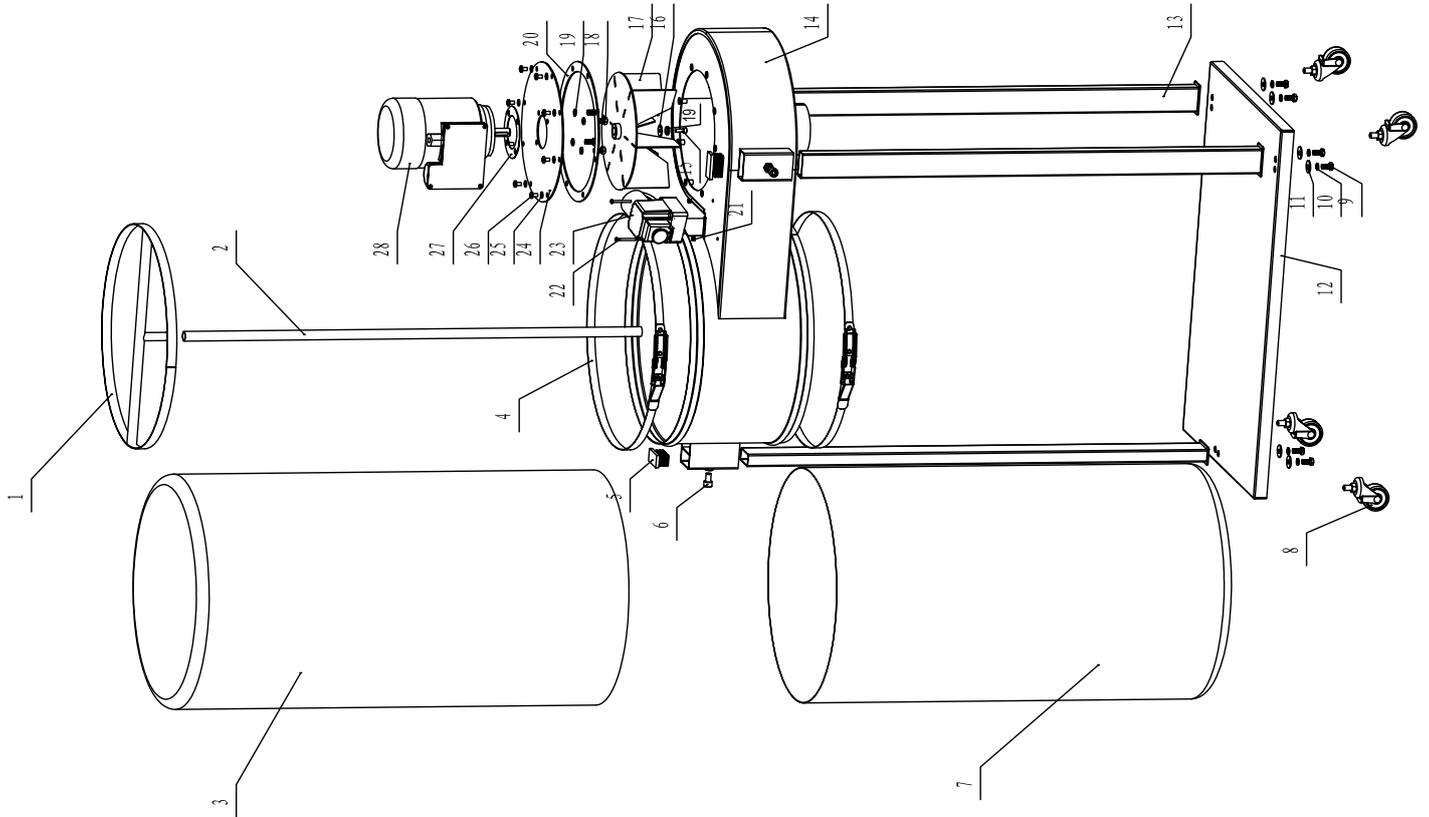
FOR MODEL DC1200

No.	Description	Part No.	Qty.
1	Upper support	JMDC1201014000	1
2	Filter bag	JMDC1201031000	1
3	Rod	JMDC1201012500	1
4	Clamps	JMDC1201130000	2
5	End cap	JL81030008	3
6	Screw	GB/T70.1-2000	3
7	Collection bag	JMDC2001032000	1
8	Wheel	JMDC1201018000	4
9	Bolt	GB/T5781-2000	3
10	Spring washer	GB/T93-1987	3
11	Washer	GB/T96-1985	3
12	Base panel	JMDC2001011000	1
13	Column	JMDC2001013000	3
14	Frame	JMDC2001012000	1
15	Screw	GB/T70.1-2000	1
16	Washer	GB/T5287-1985	1
17	Fan	JMDC1201020000	1
18	Bolt	GB/T5781-2000	4
19	Rubber seal	JMDC2001016000	1
20	Spring washer	GB/T93-1987	4
21	Plate	JMDC2001015000	1
22	Washer	GB/T97.1-1985	6
23	Screw	GB/T818-2000	6
24	Seal	JMDC1201017000	1
25	Screw	GB/T845-1985	2
26	Switch		1
27	Motor		1
28	Cable		1
29	Spring washer	GB/T93-1987	1



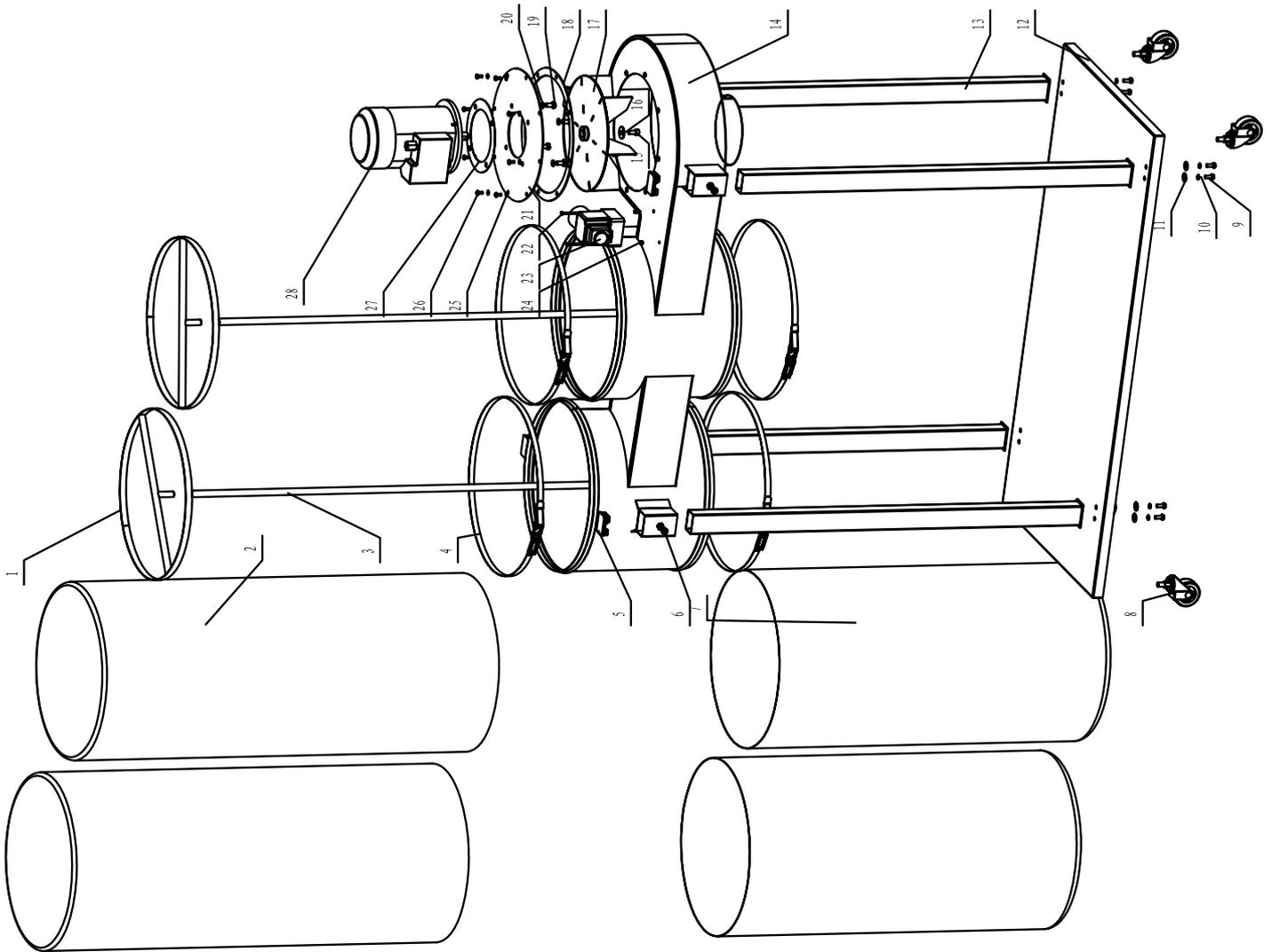
FOR MODEL DC2000

No.	Description	Part No.	Qty.
1	Upper support	JMDC3001014000	1
2	Rod	JMDC3001012500	1
3	Filter bag	JMDC3001031000	1
4	Clamps	JMDC3001130000	2
5	End cap	JMDC3001033000	3
6	Screw	GB/T70.1-2000	3
7	Collection bag	JMDC3001032000	1
8	Wheel	JMDC3001018000	4
9	Bolt	GB/T5781-2000	6
10	Spring washer	GB/T93-1987	6
11	Washer	GB/T96-1985	6
12	Base panel	JMDC3001011000	1
13	Column	JMDC3001013000	3
14	Frame	JMDC3001012000	1
15	Screw	GB/T70.1-2000	1
16	Washer	GB/T5287-1985	1
17	Fan	JMDC3001020000	1
18	Bolt	GB/T5781-2000	4
19	Spring washer	GB/T93-1987	5
20	Seal	JMDC3001016000	1
21	Lock nut	GB/T889.1-2000	2
22	Screw	GB/T818-2000	2
23	Switch		1
24	Plate	JMDC3001015000	1
25	Washer	GB/T97.1-1985	8
26	Screw	GB/T818-2000	8
27	Seal	JMDC3001017000	1
28	Motor	GB/T845-1985	1



FOR MODEL DC3000

No.	Description	Part No.	Qty.
1	Upper support	JMDC3001014000	1
2	Filter bag	JMDC5001031000	1
3	Rod	JMDC5001012500	1
4	Clamps	JMDC3001130000	2
5	End cap	JMDC3001033000	4
6	Screw	GB/T70.1-2000	4
7	Collection bag	JMDC5001032000	1
8	Wheel	JMDC3001018000	4
9	Bolt	GB/T5781-2000	8
10	Spring washer	GB/T93-1987	8
11	Washer	GB/T96-1985	8
12	Base panel	JMDC5001011000	1
13	Collumn	JMDC5001013000	4
14	Frame	JMDC5001012000	1
15	Screw	GB/T70.1-2000	1
16	Washer	GB/T5287-1985	1
17	Fan	JMDC5001020000	1
18	Seal	JMDC5001016000	1
19	Bolt	GB/T5781-2000	4
20	Washer	GB/T93-1987	4
21	Plate	JMDC3001015000	1
22	Screw	GB/T818-2000	2
23	Switch	GB/T889.1-2000	1
24	Lock nut	GB/T97.1-1985	2
25	Washer	GB/T818-2000	8
26	Screw	GB/T93-1987	8
27	Seal	JMDC5001017000	1
28	Motor	GB/T845-1985	1



FOR MODEL DC5000