

Supporting parts

1. Machine	1 set
2. Handle	1 set
3. External short power wires (on handles)	1 set
4. Screws and inner hexagonal spanner for connection of operating handle	1 packet
5. Water tank	1 piece
6. 17" brushing disc	2 pieces
7. 16" pad holder	1 piece
8. User Manual	1 copy

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ARCORA®
PREMIUM CLEANING SYSTEMS

ARCORA SINGLE DISC MACHINE PREMIUM SD430

User Manual



ARCORA®
PREMIUM CLEANING SYSTEMS

CAUTIONS

1. This machine is not intended for use by the physically weak (including children), intellectually obtuse or mentally disabled people, unless it is safely used under the help or instructions of those who are responsible for their safety.
2. The children shall be supervised to ensure that they will not play the machine.
3. Be sure to remove the power plug from the socket before cleaning or repairing the machine
4. If the power cord is damaged or loose, it shall be repaired or replaced by of power cord of the same specification and type; the connection shall be of Y type
5. Remove the power plug after stopping the machine
6. Using power supply which matches voltage and frequency of the machine

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ARCORA Single Disc Machine Premium SD430

This machine offers easy operation, safe use, and high cleaning efficiency. It is ideal for cleaning carpets and floors, as well as low-speed polishing of various surfaces in hotels, office buildings, exhibition halls, and other public spaces. With its high cleaning efficiency, it significantly reduces cleaning time, making it an essential tool for modern facility maintenance.

Main Structure

Main Structure Diagram of SINGLE DISC MACHINE PREMIUM SD430

1. Control handle
2. Left switch handle
3. Right switch handle
4. Red safety switch
5. Angle adjustment rod
6. Square tube
7. Water tank
8. Water release knob
9. Main power cord
10. Wheels
11. Cover
12. Main motor
13. Chassi
14. Anti-collision rubber ring



PICTURE 1 SINGLE DISC MACHINE PREMIUM SD430

Names and functions of all handles and buttons on the operating handle are shown as follow:

1. **Control Handle:** The power switch and its protective device are integrated into the handle.
2. **Angle Regulator and Safety Switch:** When the Single Disc Machine is not in use, the pull rod of the Angle Regulator can be lifted to make it easier to store the machine and save space. In this position, the locking teeth of the Control Handle are released, allowing the handle to rotate to a perpendicular position relative to the ground, after which the pull rod can be loosened to secure the Angle Regulator vertically. During normal operation, the pull rod should be lifted, and the Control Handle rotated to a comfortable angle for the operator (approximately 45° to the ground), then the pull rod should be loosened to lock the handle in place. To start cleaning, press the Safety Switch toward the center while holding the power switch on the handle; this activates the motor and drives the cleaning brush.
3. **Power Switch Handle:** Used to turn the machine on or off.
4. **Angle Regulating Rod:** Used to adjust and control the handle angle.
5. **Water Drain Knob:** Used to open the water tank and control the water level.
6. **Power Cord and Plug:** Used to connect the handle to the main unit.

The Water Tank is a container used for storing water and detergent while the water level regulating rod can regulate the flow of water or detergent. ARCORA SINGLE DISC MACHINE PREMIUM SD430 consists of surface cover, motor, driven rubber gear, Disc and 18" 175 brushing disc. The AC single-phase asynchronous motor features high power, low energy consumption, and minimal heat generation, thanks to its construction from imported, high-quality cold-rolled steel sheets. Both the motor housing and the main unit are made from premium aluminum alloy using die-casting, ensuring robust structural strength, lightweight design, and an attractive appearance.

Technical Parameters

Type: ARCORA Single Disc Machine Premium SD430

Voltage: 220V ~ 50-60Hz

Power: 1100W

Rotation Speed: 154 rpm

Noise Level: ≤54 dB

No-load Variation: ±7%

Power Cable Length: 12 m

Base Disc Diameter: 17"

Net Weight: 48.0 kg

Safety Rating: Type I

Materials (Internal / External): Aluminium-steel structure

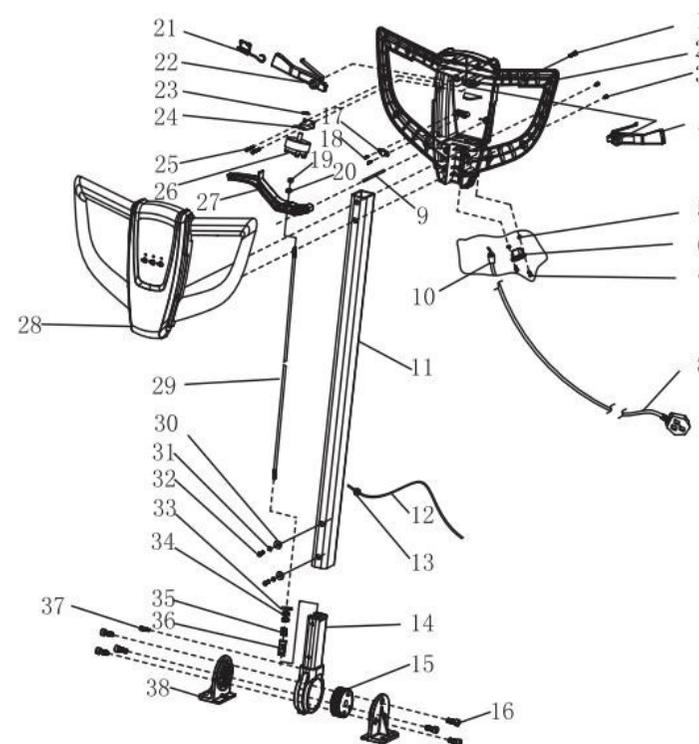
Corrosion Resistance: Resistant to acid and alkali

Impact Resistance: Slightly impact resistant

Included Accessories: Carpet brush, floor brush, pad holder, water tank

Main Functions: Floor and carpet washing, wax cleaning, low-speed polishing

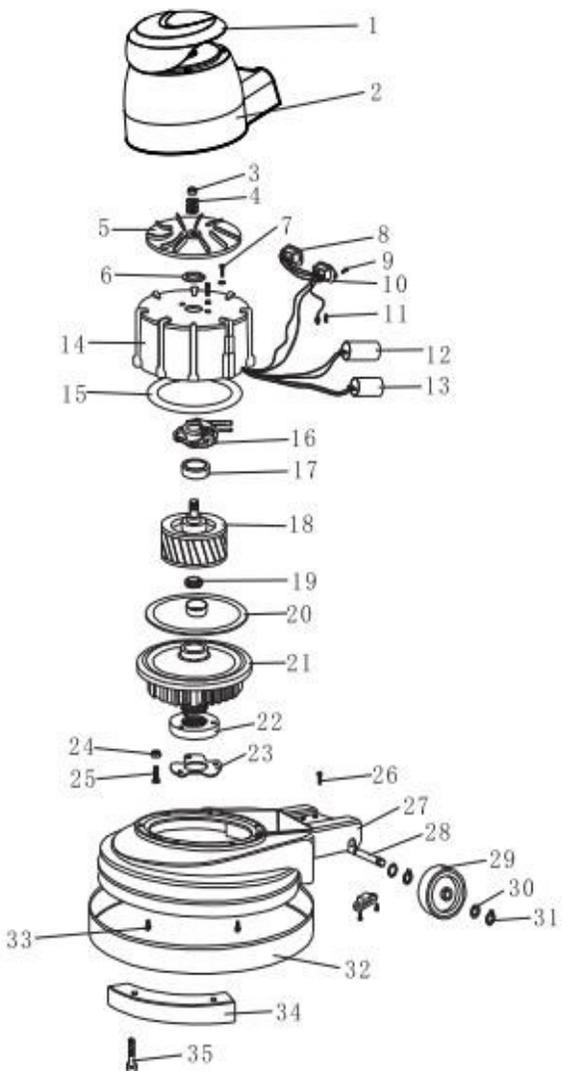
Sectional View of Handle SINGLE DISC MACHINE PREMIUM SD430



1.BBH5*16	16 pieces	14.Handle seat casing	1 piece	27.Angle adjustment handle (Black)	1 piece
2.Rear cover of handles	1 piece	15.Round tooth	1 piece	28.Front cover of handle	1 piece
3.CM5*16	2 pieces	16.CM6*12	6 pieces	29.760 Drawing wire	1 piece
4.Left switch handle	1 piece	17.Cable clamp (fine)	1 piece	30.Washer Ø 6*16*1.0	4 pieces
5.Self-lock nut M3	2 pieces	18.TAH4*16	2 pieces	31.Spring washer Ø6	4 pieces
6.In-built socket (female plug)	1 piece	19.Self-lock nut M5	1 piece	32.M6*16 Outer hexagonal M6*16	4 pieces
7.KM3*10	2 pieces	20.Washer Ø 5.0*14*1.0	1 piece	33.Washer Ø 10*25*2.5	1 piece
8.3*1.5*12 meter-long power wire	1 piece	21.Fused switch	1 piece	34.Nut, M5	2 pieces
9.Ø6*60 pin	1 piece	22.Right switch handle	1 piece	35.Spring 2.2*15*105*16N	1 piece
10.Black outgoing coil of 220V	1 piece	23.Nut M12*3	1 piece	36.Needle tooth	1 piece
11.760 Square Tube	1 piece	24.Switch iron sheet	1 piece	37.CM*10	1 piece
12.Power cable 3*1.5*1.05	1 piece	25.TAH5*16	2 pieces	38.Aluminum seat	1 set
13.Protective coil Ø12	1 piece	26.Round switch	1 piece		

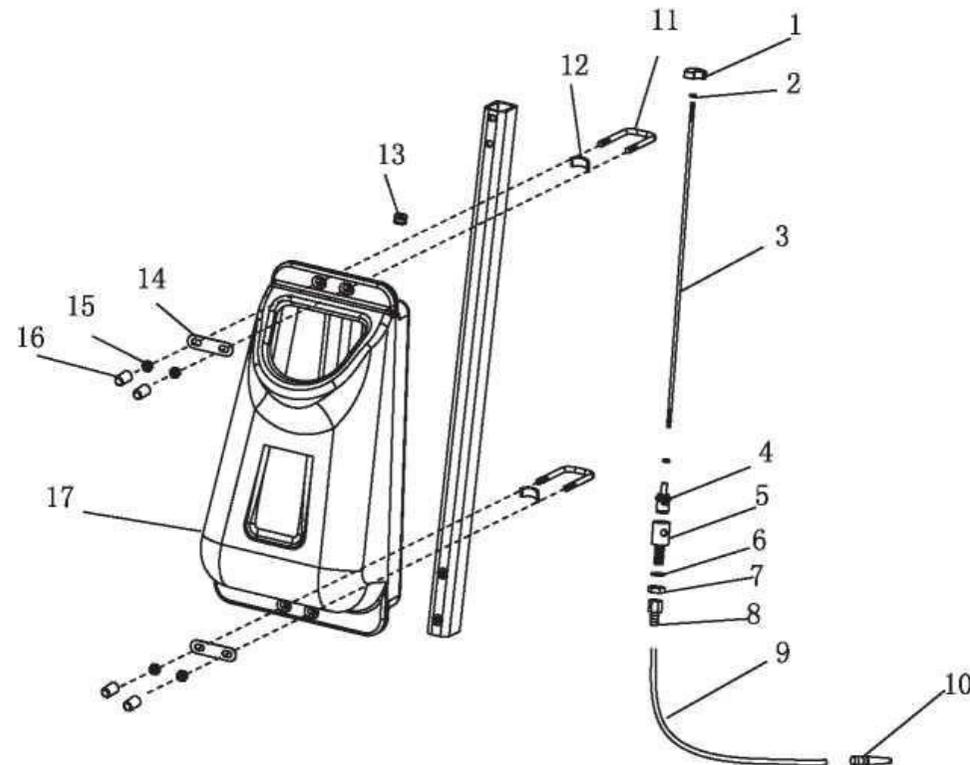
Sectional View of Machine of SINGLE DISC MACHINE PREMIUM SD430

1. Top cover
2. Middle cover
- 3.M12 Nut
- 4.012 Washers
5. Cooling fan
6. Washers
7. Screws
8. Breakout socket
9. Screws
10. Inlet socket
- 11.M5*10 screw
12. Starting capacitor (100uF)
13. Running capacitor (25uF)
14. Motor stator
15. Insulation sheet
16. Centrifugal switch
- 17.6002 Bearings
18. Motor rotor
- 19.E20 bearing
20. Motor bottom cover
21. Gearbox
22. Flange
23. Three blades
24. Bevel washer
- 25.KCM8*20
- 26.KCM8*25
27. Chassis
28. Axle
29. Casters
30. Washers
31. Circlip
32. Anti-collision rubbering
- 33.Cylindrical head self-tapping screw 5*40mm
- 34.parallel iron
- 35.KCM8*20



Sectional View of water tank of SINGLE DISC MACHINE PREMIUM SD430

- | | | | |
|---------------------------------------|----------|------------------------------|----------|
| 1. Water tank knob | 1 piece | 10. Outlet hose (Black) | 1 piece |
| 2. M5 copper nut | 2 pieces | 11. Water tank buckle | 2 pieces |
| 3. Pull rod of water tank made from | 1 piece | 12. Gasket of water tank | 2 pieces |
| 4 Water tank | 1 piece | 13. Small rubber dual-paned | 1 piece |
| 5.Water tank regulating valve (short) | 1 piece | 14. Sheet iron of water tank | 2 pieces |
| 6. Large rubber waterproof ring of | 1 piece | 15. M8 Standard nut | 4 pieces |
| 7. 22CM hexagonal cooper nut of | 1 piece | 16. Screw | 4 pieces |
| 8. 17CM tail copper of water tank | 1 piece | 17. Water tank | 1 piece |
| 9. Silicone tube of water tank | 1 piece | | |



Operating methods and notes

1. After opening the tank, properly install the machine body, operating handle, water tank, and cleaning brush according to the diagram.
2. Ensure the power socket on site relevant standards and that the supply voltage is 220V. Excessive or insufficient voltage may cause abnormal operation, overheating, or damage to the machine.
3. Add the cleaning solution to the water tank according to cleaning requirements.
4. Adjust the operating handle to a comfortable angle for the operator.
5. The operator must firmly hold the handle before starting, and no other personnel should be near the machine to avoid injury from handle movement. Push the thumb switch to the center, then press the main switch to start the machine.
6. Release the main switch handle to stop the machine.
7. After cleaning, adjust the operating handle to a vertical position and wipe the machine with a clean cloth to prolong its service life.
8. Do not use the machine for other cleaning purposes, and do not add extra weight (sitting on the machine). Doing so may injure the operator, overload the machine, damage the motor, or break the reducer gears.
9. To prevent electric shock or motor damage, never operate the machine in rain.

Care and Maintenance

1. The machine is designed to be moisture-resistant and can operate safely without water entering its electrical components under normal use.
2. During operation, ensure that water or cleaning agents do not enter the power socket or the machine directly, to prevent short circuits or electric shock.
3. Do not disassemble the motor or planetary gearbox. If any issues with the motor or gearbox, contact our company or authorized dealer for repair. Do not replace the capacitor with one that does not meet the specified capacitance and voltage requirements, as this may damage the motor.
4. Do not apply excessive force to the pull rod on the operating handle to avoid unnecessary damage.

Main Troubles and How to Solve Them

Problem	Possible Cause	Solution
Motor does not rotate	Power cable not connected properly; blown fuse; power off; damaged power switch	Check the power cable connection; check the power supply and fuse; replace the power switch
Motor starts slowly	150 μ F / 250V start capacitor is short-circuited or damaged; broken centrifugal switch	Replace the start capacitor; replace the centrifugal switch
Motor is weak	20 μ F / 450V run capacitor is damaged; motor coil damaged	Replace the run capacitor; repair or replace motor coil
Motor does not stop after turning off power switch	Damaged power switch	Replace the power switch
Motor is jammed, reduced not working, or severe noise occurs	Planetary gears broken due to abnormal overloading	Replace the planetary gears