

OPERATIONAL MANUAL

MODEL: **SDS200** SECTIONAL DRAIN CLEANING MACHINE



by BLUEROCK ® Tools

UNPACKING THE ITEM

Caution: This machine is packed together with items that may be sharp, oily and overly heavy objects. Remove the machine from the packaging in a safe manner. Check to ensure all accessories are included with the item while unpacking. If any parts are found to be missing, contact the retailer as soon as possible. Do not throw away the packaging until the item is out of the guarantee period. Dispose of the packaging in an environmentally responsible manner. Recycle if possible. Keep all plastic bags away from children due to risk of suffocation.

WEEE - Waste Electrical & Electronic Equipment. Note this machine should be disposed of as electrical & electronic waste.

© THE NEWMAN TRADING COMPANY LLC DBA BLUEROCK® TOOLS 2016 1100 SW 16th St • Suite D Renton, WA 98057 Phone 206.604.8363 • Fax 425.572.5167 www.bluerocktools.com **Table of Contents**

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Chapter

1

Safety

DO NOT USE THIS MACHINE UNLESS YOU HAVE READ THE OPERATING INSTRUCTIONS!



Safety glasses must be worn at all times in work areas. Use a full face mask whenever possible.



Appropriate footwear must be worn.



Safety gloves should be worn at all times and jewelry must not be worn.



Close fitting/protective clothing must be worn.

Long and loose hair must be

contained.

Hearing protection should be worn when using this machine.



Read operational manual prior to use.

PRE-OPERATIONAL SAFETY CHECKS

- > Examine the power cord and plug for damage.
- > Examine the body of the machine and inspect for damage or defects.
- Examine the cable and cutters to insure they are operable.
- > Make certain the on/off switch is in the off position before plugging into power to prevent unintentional starting.

OPERATIONAL SAFETY CHECKS

> ONLY to be operated by qualified personal who have read instructions.

• NOTE: Failure to read and follow instructions could result in electrical shock, fire, property damage and/or serious injury!

- DO ensure all non-essential people are clear of the immediate work area.
- Do keep body parts, clothing & power cords clear of turning pieces. Stay alert and use common since when using this tool.
- DO always wear gloves when using this machine. Make sure not grasp turning cable with rags or gloves that are loose fitting. Loose fitting gloves or rags can become wrapped around or lodged in-between cable causing serious injury.
- > DO always wear eye protection to protect eyes from debris, fluids, chemicals or other compounds.

| 4 | DO always non-slip rubber soled shoes. | | | | | |
|---|---|--|--|--|--|--|
| ٨ | DO be extremely careful when cleaning drains where chemical cleaning compounds have been previously used. | | | | | |
| A | DO only use this machine on a properly grounded circuit in accordance with all local and national standards. DO NOT remove the grounding plug. If in doubt that this machine is properly grounded, consult an electrician. | | | | | |
| > | DO always use relevant safety measures when working electrical machinery. Be aware that working in pipe drains can cause water puddles, so make sure to use GFCI's when necessary and personal protection devices like insulated gloves, shoes and insulated standing pads. | | | | | |
| ۶ | DO remove adjusting keys or wrenches prior to turning machine on. | | | | | |
| > | DO guard against electric shock by preventing body contact with grounded surfaces such as pipes, radiators, ranges, refrigerators, etc. | | | | | |
| ۶ | DO keep the working area clean and brightly illuminated for optimum operational safety. | | | | | |
| ۶ | DO keep the machine balanced and stable at all times. | | | | | |
| > | DO be mindful that power tools can expose an operator to vibrations transmitted trough contact with the machine. Prolonged exposure can lead to medical issues, which should be discussed with a medical professional. | | | | | |
| ٨ | DO NOT make adjustments to machine while the machine is running. | | | | | |
| ۶ | DO NOT use cable exceeding 165' (50M) from the machine. This could damage the machine. | | | | | |
| ۶ | DO NOT leave the machine running when not in use. | | | | | |
| ٨ | DO NOT hold drainpipe by hand or using the body. Always mechanically clamp or secure work pieces that are not fixed. | | | | | |
| ۶ | DO NOT allow liquids or dust to enter the machine's ventilation system. | | | | | |
| ۶ | DO NOT operate machine outside of machine specifications. | | | | | |
| ۶ | DO NOT touch moving parts while the machine is running as death or dismemberment could occur. | | | | | |
| > | DO NOT remove machine's panels while machine is connected to a power source. Only to be removed for service by qualified personal and put back on the machine after service is complete. | | | | | |
| ۶ | DO NOT allow children or untrained personal to operate machine. | | | | | |
| ۶ | DO NOT use this machine in the rain or a wet environment. If using outdoors, make sure the machine is clean and dry. | | | | | |
| ۶ | DO NOT operate in the presence of explosive materials as power tools create sparks which may ignite dust or fumes. | | | | | |
| ۶ | DO NOT use on a pipe that may contain a live electrical wire/circuit. | | | | | |
| ٨ | DO NOT use this machine if the ON/OFF switch is broken. | | | | | |
| ٨ | DO NOT operate this machine on the same work surface where welding is being performed. This could result in severe damage to the machine or personal injury to the user. | | | | | |
| ۶ | DO NOT operate this machine on a lower voltage as this could limit the motor life and work efficiency. | | | | | |
| | NOTE: Use of long small gauge power extension cords can result in decreased voltage. As local voltages can vary, it may be a good idea to test the voltage at the end of the extension cord to ensure proper voltage requirements are met. You might also consult an electrician to make sure the length of cord matches up with the proper wire gauge for this size motor. Make sure to use outdoor cords when operating outdoors. Use a GFCI circuit if using in wet locations. | | | | | |

Chapter 2

Specifications

| Specific | ations |
|------------------|---|
| ELECTRICAL DATA | |
| Voltage | 110V, 60Hz Induction Motor |
| Current | 10 Amps |
| Motor Size | 1100W |
| Power Connection | US Standard 3 Prong Grounded Plug and inline GFCI |

| MECHANICAL DATA | |
|-----------------|--------------------------------|
| Pipe Capacity | 2" to 8" Diameter (50mm-200mm) |
| Max Run-out | 165' (50M) |
| Gearbox | Forward and Reverse |
| Gear Housing | Aluminum |
| Machine Speed | 700RMP |
| On/Off Switch | Manual |
| | |

| SHIPPING DATA | |
|-----------------|-----------------|
| Shipping Weight | 220lbs (100KG) |
| Shipping Carton | 44" x 25" x 28" |

Included Accessories

| DESCRIPTION | QTY |
|---|-----|
| Instruction Manual | 1 |
| 1-1/4" Drain Cable 60'. 15' (4.6M) x4pcs, 30mm diameter. Sectional Cables. Soft Shaft (Same as Ridgid® C11 with 60' of Cable fits K-1500 with A62 Carrier). | 1 |
| Rubber Safety Hose | 1 |
| Cable Bits/Drills | 6 |
| Bit Key | 1 |
| Accessory Case | 1 |

Additional Available Accessories

Additional accessories for this machine can be found in BLUEROCK ® Tools online shop at www.bluerocktools.com or from your local retailer.

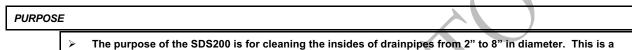
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Operations

Note

THOROUGHLY READ THROUGH THE ENTIRE MANUAL BEFORE OPERATING THIS MACHINE!



heavy-duty professional use machine allowing a single user to easily clean pipes.
 This type of sectional drain cleaner uses individually lengths (sections) of cleaning cable. This machine

uses 16' sections, which can be added or subtracted during cleaning operations.

• Maximum length of any particular run should be 165' (50M).

MACHINE SET-UP

> The machine is designed pre-assembled. The user must only take the item out of the shipping crate.

o CAUTION: This machine is heavy lifting should be avoided whenever possible.

o DO NOT allow the cord or plug to drag along the floor when wheeling between locations.

> Make certain the work area is dry.

• DO NOT place the machine in water.

> Use barriers to keep non-essential personal away from rotating drain cable or other moving parts.

- Place machine away from passageways and make certain the operator is able to see all parts of the workpiece.
- > DO NOT set-up or modify the machine in a manner that is not intended.
 - DO use a user provided functioning GFCI circuit when using this machine.

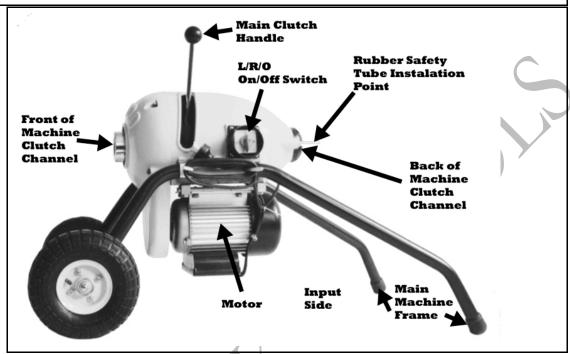
MACHINE COMPONENTS

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The main components of the SDS200 are motor housing, rotating clutch channel and main machine frame assembly (see figure below). The motor drives the clutch rotationally and acts as the main drive component of the machine.

• These components must be not be removed except by a qualified technician. Power must be disconnected prior to any service.

The machine has a main on/off switch with a forward and reverse position. These switches operate the turning mechanism, which turn the machine clutch. When the motor switch is turned on, the user is able to pull clutch handle, which starts the clutch rotation. When the handle is released the rotation immediately stops.



PREPERATION FOR USING MACHINE

- CAUTION: Before making any adjustments, ensure the main machine switch is in the "O" off position.
 CAUTION: Before starting your job, it is vital to be aware of the distance from the sewer inlet pipe to the
- CAUTION: Before starting your job, it is vital to be aware of the distance from the sewer inlet pipe to the main sewer pipe or septic tank. Overrunning the cable into large spaces can cause cable to form "knots" and prevent the cable from being returned through the smaller pipe line. Avoid going into main sewer lines farther than 10'. Avoid going into sewer tanks more than 3'.
- Clutch operations.
 - To rotationally engage the clutch, pull the clutch handle down (towards the ground). The user must hold the handle in the down position to keep the clutch rotating. To disengage the clutch, allow the clutch handle to move to the up position (towards the ceiling).
 - NOTE: Sectional drain cleaners do not spin the drain cleaner cable in/out (towards/away) from the drain clog. Sections of the cable must be individually connected and manually fed to the point of the clog. When the drain cleaner end reaches the point of the clog, the user engages the clutch to spin the cutter in a forward of reverse rotation.
 - CAUTION: Keep hands and fingers away from the clutch jaws and cutting pieces when the machine is plugged into a power source. Closing clutch jaws can cause serious damage to bodily parts.

Main On/Off Switch Operations

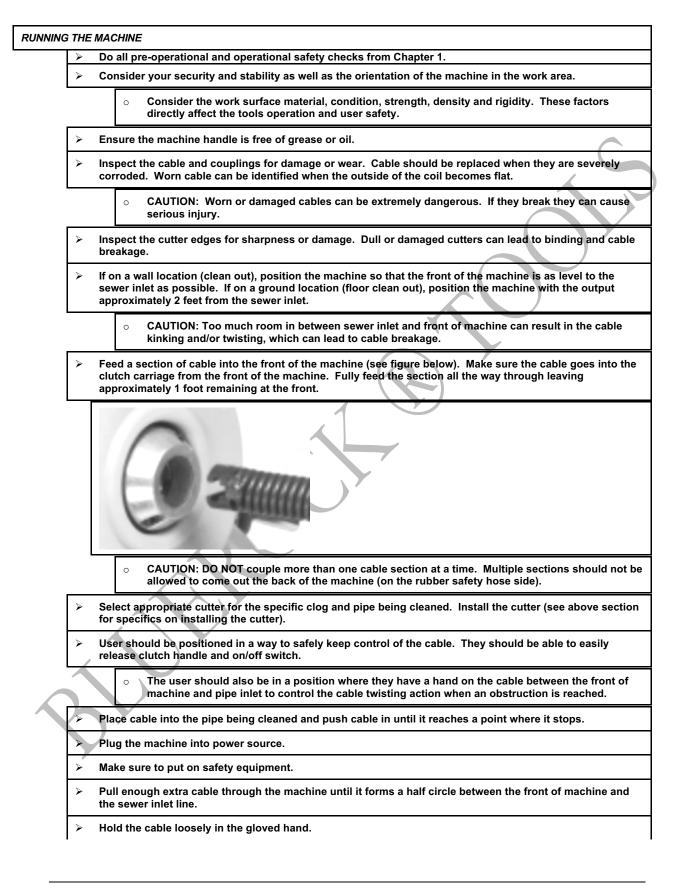
- "O" indicates "off" position.
- "L" indicates counter-clockwise rotation.
- "R" indicates clockwise rotation.

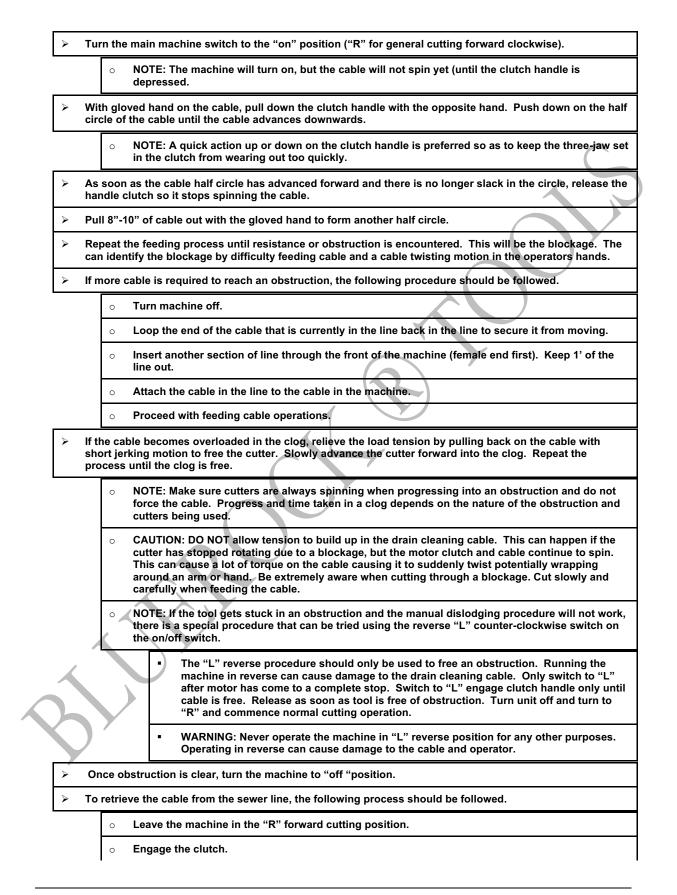


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When deciding which cutter to use, the user should choose a cutter size that is at least 1" smaller than the drainpipe to be cleaned. The style of the tool is determined by the operational needs of the job. This choice is generally left up to the experience of the user.

| Sectional Elastic Soft Shell Cable | Sectional Elastic Strong Shell Cable | Rubber Safety Hose | |
|--|---|--|--|
| Made with high quality spring wire, assures sufficient mechanical flexibility, as well as bending resistance, twisting resistance and durability resistance. It can be connected for any length. | A Shaft made in heavy load with intensive wires. Enhanced mechanical strength and twisting resistance, suitable for complicated working environment. | This safety hose is made to prevent injuries. from rotating flexible shaft and assure personal safety. | |
| DIDDDAMERE: SERVICE | Interesting - Julianstation | | |
| Straight Helical Cutter | Olive Shaped Helical Cutter | Flexible Olive Shaped Helical Cutter | |
| For exploring the pipe blockage. Usually used in the first step | For guiding the flexible shaft through the complicated path and drilling through the blockage. Best for it's guide function. | For pipes that are hard to drill. Good flexibility and optimal guiding function. | |
| In the second | | | |
| Funnel Shaped Helical Cutter | Collection Helical Cutter | 4 Edge Saw Cutter | |
| Used in the second step of cutting to effectively remove the blockage residue left on the pipe wall by straight helical cutting. | For collecting the broken cable or drill in the pipe. | Used to remove hard materials like chemical deposits. | |
| WWWW | TOTAL LINE CONTRACTOR | | |
| Spade Shaped Cutter | Helical Cutter Saw | C-Shaped Cutter | |
| Used to remove the grease and gunk from the pipe wall or used in the second step to remove residues on the pipe wall. | For removing blockages like roots, branches, debris or grease from pipes | For removing materials like cream, soap etc. that adhere to the pipe wall. | |
| | 6 | | |





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| 0 | With gloved hand, pull the cable out or hold cable against the edge of the sewer inlet pipe until a half circle is formed in the cable. | | | | | | |
|---|--|---|--|--|--|--|--|
| | | This essentially threads the cable out of the pipe. | | | | | |
| 0 | Re | ease clutch. | | | | | |
| 0 | Pu | sh excess cable back through the machine from front to back. | | | | | |
| | Remember to turn off machine and disconnect sections as they come out. | | | | | | |
| | When a section of cable is removed, insert the cable back into the cable carrier. Make sure to reconnect the sections of cable to the last section of cable in the carrier. | | | | | | |
| 0 | Repeat this operation until cable is fully out. | | | | | | |
| 0 | Turn off machine. Disconnect Power. Remove safety hose. | | | | | | |
| 0 | After using this machine, clean and flush cables, couplings and cutters with water. | | | | | | |

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Troubleshooting

Note

SERVICING SHOULD ONLY BE DONE BY A QUALIFIED TECHNICIAN.

DON'T FORGET TO UNPLUG POWER TO UNIT PRIOR TO SERVICE!

| PROBLEM | CAUSE | CORRECTION | |
|---|--|---|--|
| Motor does not | Machine unplugged | Plug into power source | |
| start | Fuse blown | Replace the fuse | |
| | Capacitor blown | Replace capacitor | |
| | Bad on/off switch | Replace Switch | |
| The cutters will not | Cutting blade is dull | Replace or sharpen blade | |
| cut | Cutter is damaged | Replace cutter | |
| | Too much force being applied | Cut slower | |
| Cable is not | Main channel is rusted | Take apart and remove rust | |
| turning | Clutch is worn down | Replace clutch | |
| | Handle not pressed down all the way | Engage clutch handle down all the way | |
| The cable spins, but does not move forward or reverse | This is a non-automatic forward/reverse drain cleaner. This is a sectional type drain cleaner. It does not go in and out automatically | Consult the operating manual for procedures on standard operating procedures | |
| Damaged Cable | Dull cutters | Replace cutters | |
| | Cutters not assembled in correct sequence | Put cutters in correct sequence | |
| | Low quality pipe | Make sure only pipe of good quality is used | |
| | Bad quality or insufficient thread cutting oil | Use only thread cutting oil in adequate quantity | |
| Pipe turns while | 3-jaw clutch not tight | Tighten handwheel clutch | |
| threading | 3-jaw clutch teeth dirty | Clean with wire brush | |
| | 3 jaw clutch teeth damaged or dull | Replace 3-jaw clutch | |
| Cable broken in the | Incorrect operations | See operational protocols. Get drill with helical shaft and extension to collect the broken cable | |
| Pipe | Prolonged use in "L" Reverse | | |
| Cable is stuck | Pipe has many turns and is very long | Increase push/pull force during operations | |
| X | | Change direction/angle of the cable | |
| Cable will not cut through blockage | Blockage too hard | Gently push and pull the cable rotating clockwise. Have patience, sometimes obstructions take a while to clear Use a different set up, smaller or larger. Operator experience comes into play on this | |
| | Complicated path to the blockage | Find a shorter route to the blockage | |



General Maintenance

Note

SERVICING SHOULD ONLY BE DONE BY A QUALIFIED TECHNICIAN.

DON'T FORGET TO UNPLUG POWER TO UNIT PRIOR TO SERVICE!

- Inspect electrical cords and electrical connections.
- > Keep machine clean and free of debris.
- > Flush cables with water after each use. Occasionally lubricate cables and couplings.
- > Check for misalignment, binding and breakage of all moving parts. If damaged, repair tool before use.
- > Check the cutters for sharpness or damage.
- > Clean clutch teeth with wire brush. Check the attrition on the 3-jaw clutch. If the points are worn, replace with identical piece.
- > After each use coat all moving parts (including clutch driver) with corrosion resistant oil.

Occasional Maintenance

> Check brushes for wear and replace if worn.

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- > Grease rocker arms and main bearings every 3-6 months.
- > Grease main bearings thru grease fitting inside clutch handle slot.
- > After a lot of use, clutch jaws may need to be replaced.
 - Remove the screws that hold the front guard to the housing. Remove screws that hold the nosepiece on.
 - Slide out clutch driver and replace jaws.
 - Put nosepiece assembly and guards back on.

WARNING: DO NOT operate machine with guards removed.

- > After a lot of use, the V-Belt may need to be tightened.
 - Remove V-Belt Guard
 - o Loosen locknut, turn bolt until V-Belt tightens. Tighten lock nut back up. Replace guard.

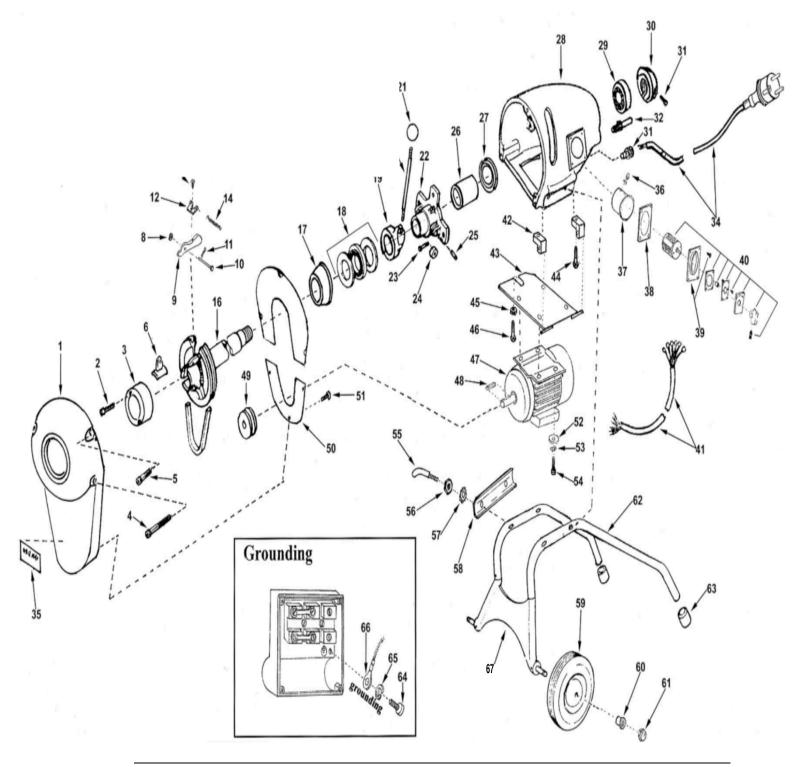
Chapter



Parts List

| Part Description Specification y t Description Specification y 1 Hull 1 36 Strain relies M12 Plastic 4 2 Inner hexagon screw M5*35 2 37 Protective shield $074'74'6'9'PA6$ 1 3 Gland 1 38 Insertion rubber 1 4 Inner hexagon screw M6*50 2 39 Guard plastic 1 5 Inner hexagon screw M6*30 2 40 Switch 10A/400v 1 6 Brakes 0-528 rubber 1 42 Strain 10 10A/400v 1 7 Belt 0-528 rubber 1 44 Screw M10*30 2 9 Rocker arm set 3 44 Screw M10*30 2 10 pin 46*45 3 45 Nut M10 1 11 Cotter 42*16 | | | | | | | | |
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| 13 Half-round head screw M5*8 3 48 Flat key 6*30 1 14 Tension spring 3 49 Small Pulley 1 1 15 Damper 1 50 Damper 1 1 16 Driving shaft 1 51 Screw M5*103 3 17 Clutch cone 1 52 Washer Ф10 4 18 Bearing 8112 1 53 Spring washer Ф10 4 20 Handle 1 55 Fixed wire reel 4 4 21 Ball 1 56 Nut M10*20 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Ф10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 50 | | | | | | | | |
| 14 Tension spring 3 49 Small Pulley 1 15 Damper 1 50 Damper 1 16 Driving shaft 1 51 Screw M5*103 3 17 Clutch cone 1 52 Washer Φ10 4 18 Bearing 8112 1 53 Spring washer Φ10 4 19 Cam 1 54 screw M10*20 4 20 Handle 1 55 Fixed wire reel 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Φ10 4 23 Inner hexagon screw M8*30 3 58 Support 2 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Φ50*185 plastic 1 61 | | | | | | | | |
| 15 Damper 1 50 Damper 1 16 Driving shaft 1 51 Screw M5*103 3 17 Clutch cone 1 52 Washer Ф10 4 18 Bearing 8112 1 53 Spring washer Ф10 4 19 Cam 1 54 screw M10*20 4 20 Handle 1 55 Fixed wire reel 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Ф10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 25 Pin 8*30 2 60 Ring 2 26 Sleeve pipe Ф50*185 plastic 1 61 Nut M12 2< | | | M5*8 | | | | 6*30 | |
| 16 Driving shaft 1 51 Screw M5*103 3 17 Clutch cone 1 52 Washer Φ10 4 18 Bearing 8112 1 53 Spring washer Φ10 4 19 Cam 1 54 screw M10*20 4 20 Handle 1 55 Fixed wire reel 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Φ10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | |
| 17 Clutch cone 1 52 Washer Ф10 4 18 Bearing 8112 1 53 Spring washer Ф10 4 19 Cam 1 54 screw M10*20 4 20 Handle 1 55 Fixed wire reel 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Ф10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Ф50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 2 29 Ball bearing 208 1 64 | | | | | | | | |
| 18 Bearing 8112 1 53 Spring washer Φ10 4 19 Cam 1 54 screw M10*20 4 20 Handle 1 55 Fixed wire reel 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Φ10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 2 29 Ball bearing 208 1 64 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| 19 Cam 1 54 screw M10*20 4 20 Handle 1 55 Fixed wire reel 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Φ10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spr | | | | | | | | |
| 20 Handle 1 55 Fixed wire reel 4 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Φ10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 | | | 8112 | | | | | |
| 21 Ball 1 56 Nut M10 4 22 Plate assembly 1 57 Spring washer Φ10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 1 33 Strain relies | | | | | | | M10*20 | |
| 22 Plate assembly 1 57 Spring washer Φ10 4 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 1 | | | | | | | | |
| 23 Inner hexagon screw M8*30 3 58 Support 2 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 33 Strain relies M16 Plastic 1 47 48 48 | | | | | | | | |
| 24 Jockey pulley 2 59 Wheel 70kg 8" 2 25 Pin 8*30 2 60 Ring 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 1 | | | | | | | Ф10 | |
| 25 Pin 8*30 2 60 Ring 2 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 28 Casing 1 63 Rubber feet 2 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 1 33 Strain relies M16 Plastic 1 6 1 1 | | | M8*30 | | | | | 2 |
| 26 Sleeve pipe Φ50*185 plastic 1 61 Nut M12 2 27 Yoke 1 62 Stand 1 1 2 28 Casing 1 63 Rubber feet 2 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 33 Strain relies M16 Plastic 1 6 5 5 | | | | | | | 70kg 8" | |
| 27 Yoke 1 62 Stand 1 28 Casing 1 63 Rubber feet 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 33 Strain relies M16 Plastic 1 6 5 1 | | | | 2 | | | | |
| 28 Casing 1 63 Rubber feet 2 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 1 33 Strain relies M16 Plastic 1 6 | | | Φ50*185 plastic | | | | M12 | |
| 29 Ball bearing 208 1 64 Screw M5*10 1 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 33 Strain relies M16 Plastic 1 | | | | 1 | | | | |
| 30 Bearing end cover 1 65 Spring washer Φ5 1 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 33 Strain relies M16 Plastic 1 6 6 6 | | | | 1 | | | | |
| 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 33 Strain relies M16 Plastic 1 66 Earth Lead Φ5 1 | | Ball bearing | 208 | 1 | | | | |
| 31 Screw M8*30 1 66 Earth Lead Φ5 1 32 Guide hose pin 2 67 Main Axle Assembly 1 33 Strain relies M16 Plastic 1 66 Earth Lead Φ5 1 | | Bearing end cover | | 1 | | Spring washer | | |
| 33 Strain relies M16 Plastic 1 | 31 | | M8*30 | 1 | 66 | | Φ5 | 1 |
| 33 Strain relies M16 Plastic 1 | 32 | Guide hose pin | | 2 | 67 | Main Axle Assembly | | 1 |
| | 33 | | M16 Plastic | 1 | | , , , , , , , , , , , , , , , , , , , | | |
| | 34 | Mains cable | 1.0 ² /250V rubber | 1 | | | | |
| 35 Name Plate 1 | | | | | | | | |

Breakdown View



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