



RK-55

Potter's Wheels

Congratulations on your purchase of a Nidec Drive Technology potter's wheel! We trust you will enjoy many years of professional results from your wheel. Please read the entire instruction manual thoroughly before initial set-up and operation. The information contained herein will aid you in operating your Nidec Drive Technology wheel safely and with excellent results.

If you have any questions regarding our product(s), call your local Nidec Drive Technology dealer.

Features and Benefits

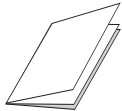
The RK-55 offers the power, resilience and quietness that Nidec Drive Technology wheels are known for. Features includes

- Heavy-duty steel frame construction assures long service life.
- Unique closed loop micro- controller maintains required speed under heavy load.
- Foot pedal offers flexibility in speed adjustment.
- Two-year warranty.

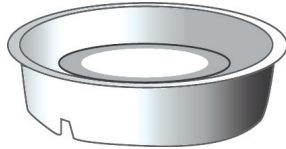
Contents Included



4×5 Wrench : 1
(To adjust foot pedal)



Instruction Manual.

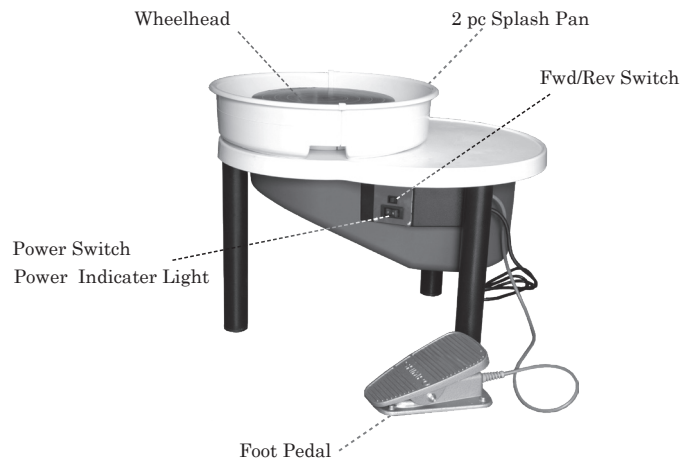


Splash Pan : 1



Foot Pedal : 1

Parts Description



[Warning] Please start to use the wheel only after you understand the safety information and functions of the equipment.

This instruction manual provides three grades of warnings as follows. Please follow these instructions carefully.



Danger

Danger marking indicates a possible death, severe injury or fire if the user disregards the warning.



Warning

Warning marking indicates the possibility of a severe injury if the user does not follow the instructions.



Caution

Caution marking indicates the possibility of light injury or damages if user operates the wheel improperly.

Extremely important markings to pay attention to:



Warning, Pay Close Attention



Do Not



Please Follow Instructions

Nidec Drive Technology will not indemnify any damages or loss caused by improper operation due to the lack of following the instruction manual, natural disaster, fire, or user's abuse or negligence.

⚠ Danger



Do not use the wheel other than for throwing clay.

This product is designed for the creation of ceramic art.



Do not place any items other than ceramic materials on the wheelhead.

Water buckets and tools should be placed on the attached workspace.



Repairs and modifications by the user are prohibited.

May cause electrocution or injury.



Do not insert hands or objects into openings or moving parts.

May cause electrocution or injury.



Do not leave children unattended near wheel.



Keep tools and small parts out of the reach of children.



Stop operation of the wheel if you smell or see smoke or hear unusual noises.

Shut off the power, unplug power cable and contact the Nidec Drive Technology dealer or Nidec Drive Technology



Children shall not play with the appliance.



Please ask for Nidec Drive Technology Dealer to replace the power cord when you have problem. Never repair the power cord by yourself.

* If the power code is damaged, please contact your dealer or our office.







This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved




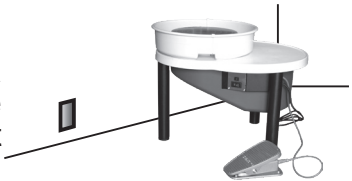





The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction and Children should be supervised so that they do not play with the appliance.

! Warning

| | |
|---|--|
|  <p>Handle with extreme care when moving or lifting.</p> <p>Serious injury can occur if moving or lifting is done improperly.</p> |  <p>Do not plug into or unplug from AC outlet with wet hands.</p> <p>May cause electrocution.</p> |
|  <p>Do not move or hold the wheel while power is on.</p> <p>The wheel cabinet may start turning and your hand may be caught between the wheelhead and the enclosure.</p> |  <p>Be careful of loose fitting clothing and long hair.</p> <p>May catch in clay or wheelhead causing damage or injury.</p> |

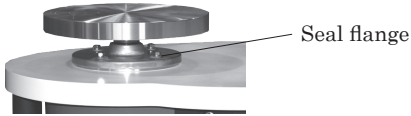
! Caution

| | |
|--|---|
|  <p>Do not lift the wheel by the wheelhead.</p> <p>May cause damage or injury.</p> |  <p>Be careful of jewelry and long nails.</p> <p>Jewelry may be caught in equipment and cause damage or injury. Finger nails may be chipped or broken.</p> |
|  <p>Place the wheel on a flat, horizontal surface.</p> <p>It may cause a vibration if the placement is not level.</p>  |  <p>Do not remove the bottom cover.</p> <p>There are electrical parts which need to be protected from hands, water and other materials.</p> |
|  <p>Do not place a TV, radio, or an antenna too close to the wheel.</p> <p>It may cause noise and picture distortion.</p> |  <p>Cleaning and user maintenance shall not be made by children without supervision.</p> |

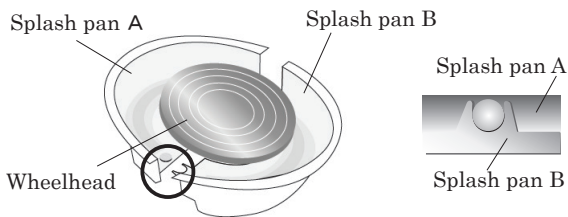
Splash Pan Installation

① Insert splash pan A into the groove under the seal flange.

② Insert splash pan B into the groove under the seal flange.



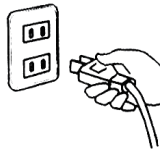
③ Join splash pan A into splash B



Power Connection

⊘ Please do not use this wheel with any voltage or frequency other than what is indicated.

Confirm that you have the correct line voltage and then insert power plug into the power outlet.



⊘ Do not connect many power cables to the same outlet.

May cause fire by exceeding outlet capacity.



⊘ Make sure the power switch is off when you plug the power cable into the AC outlet.

Operation Warning

⊘ Press the pedal all the way back before turning the power switch off.

The wheelhead will not move if the pedal was not all the way back at last power off.

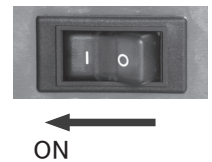
⊘ Do not operate any switches with wet hands.

! Break in the wheel according to the following procedure after setting the foot pedal all the way back before using it for the first time.

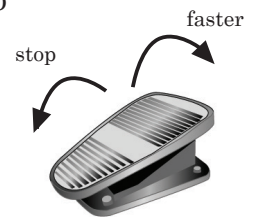
Operation Starting and Stopping

• Start

① Turn the power switch on.

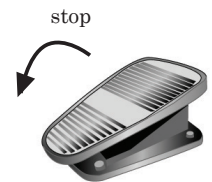


③ Press the pedal forward from the stop position to in crease speed. Step backward to reduce speed.

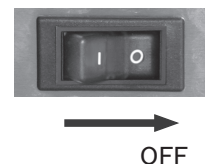


• Stop

① Press the pedal all the way back to stop wheelhead.



② Turn the power switch off.



How to Switch Wheelhead Direction

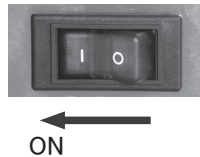
• Start

- ① Please check the pedal all the way back to stop position.

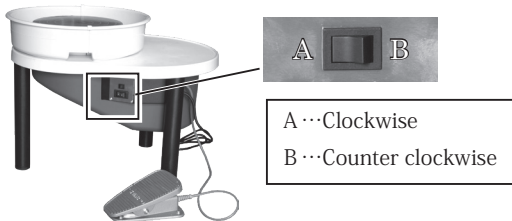


- ② Turn the power switch on.

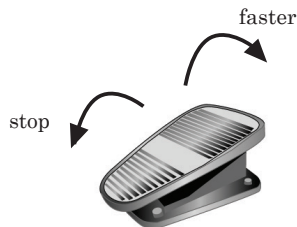
Power switch flash.



- ③ Turn on a changeover switch to select direction.



- ④ Press the pedal forward from the stop position to increase speed. Step backward to reduce speed.

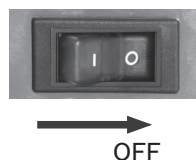


• Stop

- ① Press the pedal all the way back to stop wheelhead.



- ② Turn the power switch off.



How to change Wheelhead Direction

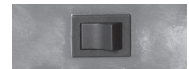
- ① Please check the pedal all the way back to stop position.



The wheelhead stops when a switch is changed to CCW.

After Press the pedal all the way back and press the pedal forward, The wheelhead will be rotating to opposite direction.

- ② Change the direction with a switch.



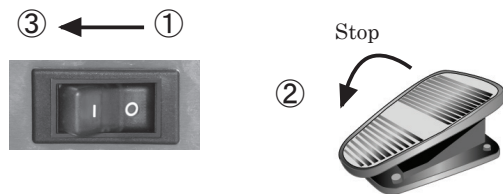
Operation Power Switch

The power switch has two functions. One is to turn wheel on and off. The other is a reset function. This wheel has a safety feature for over load. In order to reset, operator must switch off and on again. (Don't forget to press the pedal all the way down before turning switch back on.)

- ① Switch the on switch to the off position (refer to diagram).


- ② Return the foot pedal to the off position (refer to diagram).

- ③ Turn the power switch back on.



Maintenance

Use caution when performing any maintenance, inspection, and adjustments.

-  Turn the power switch off and unplug the power cable for cleaning, testing or adjustment. (It is recommended to do the same if the wheel will not be in use for a long period.)

-  DO NOT POUR WATER ON THE WHEEL TO CLEAN IT.

Wipe the wheel down with a damp sponge or cloth. (Splash pan can be cleaned if it is removed from the wheel.)

● How to adjust tension of the belt

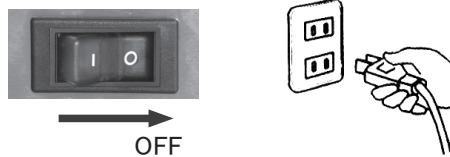
(When the power is low. When you feel the belt inside main body slips.)

Please adjust tension of the belt according to the following instructions:

- ① Stop the wheelhead by pressing foot pedal all the way back.

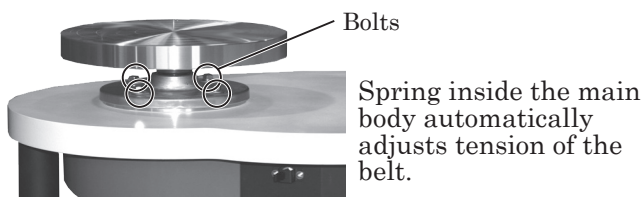


- ② Turn off the power switch and unplug the power cord.

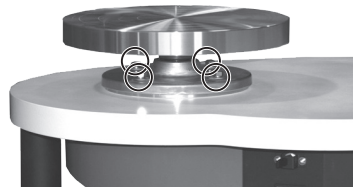


- ③ Remove splash pan and loosen all 4 bolts under the wheel head.

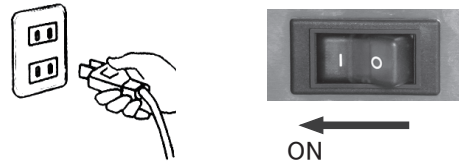
Caution,
Please be careful not to loosen too much.
Loosen bolts. Do not remove completely.



- ④ Fasten 4 bolts once again.



- ⑤ Insert the power cord and turn on the power switch. Be sure to check rotating direction.



Troubleshooting

Problem Wheelhead does not turn

- Is the wheel plugged in to the power source?
- Is the power switch in the "on" position?
- Is the power source working correctly and supplying the correct amount of electrical current?
- Is the pedal at the "0" position (heel of the foot pedal completely down)?
- Are there several wheels or other equipment/appliances on the same circuit?
(Check the breaker to see if the circuit has been overloaded.)

Problem Unusual sound and vibration coming from the wheel body

- Is the wheel resting on a solid surface and level?
- Is there too much clay on the wheelhead?
- Is the clay totally centered?
- Has the wheelhead bolt been tightened completely?
- Is it kept for a long time with no operation?
(It seems that the drive belt has a pulley-shaped bending tendency. Straighten the tendency by operating with no load and the foot pedal at the highest speed until the vibration disappears.)

Problem The wheelhead stops turning

- Did the wheel stop turning due to too much clay on the wheelhead?
- Did an overload cause the breaker to open at the main power source?
- Has the power cord become unplugged?
- Did the switch(breaker) on wheel open?

Specifications

| | |
|---------------------|--|
| Model | RK-55 |
| Motor | 100W AC230V 50Hz single phase* |
| Drive System | Brush DC Motor with electric speed control |
| Wheelhead speed | 0 ~ 250rpm |
| Speed control | Remote Foot Pedal |
| Wheelhead Direction | Clockwise/ Counter-Clockwise |
| Wheelhead | Light alloy casting, diameter 300mm |
| Dimension | 560 × 720 × 540mm |
| Ship Weight | 23kg |
| Ambient Temperature | 0~40°C |
| Ambient Humidity | 10 ~ 85%RH(No Condensation) |

*There are a couple of different motor specifications based on the country.
Please refer to the nameplate on the product for detail specification.

NIDEC DRIVE TECHNOLOGY CORPORATION

〈Web Page Information〉 Please scan the QR code or access the URL below.



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NIDEC DRIVE TECHNOLOGY CORPORATION

Nidec Shimo Corporation change its company name to Nidec Drive Technology Corporation on April 1, 2023.