# Operation Instruction

## Before operation

1. Check if the equipment runs in a correct direction. Regulate space between double rollers by loosening locknut and regulating handwheel manually to maximize or minimize.
2. Lock top cover of feed hopper and lock-screw on double rollers so as not to change space between rollers while crushing.
3. Clean the sample box. Put it into crusher and lock it. After all preparation work, switch on the equipment and get ready for sample preparation.

## Operation

1. Press the green button to start.
2. Open hopper lid when it runs normally. Feed samples to be crushed into feed hopper.
3. Feed sample into crushing cavity uniformly. Do not feed too fast or too much.
4. The size for samples fed into hopper should not exceed the maximum feed size to ensure longer service life. The moisture for samples should be not greater than 12% to avoid blocking.
5. After all samples are crushed, disconnect equipment from facility power. Open crushing cavity lid and remove sample residue in sample box and between rollers.

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## Hazards

1. Do disconnect power supply when opening the crushing cavity for cleaning.
2. Do NOT put hands into top hopper to clean or push samples when it's running.
3. Do NOT open crushing cavity lid when it does not come to a full stop.

## Daily Maintenance

1. Clean remaining residue on the surface or inside of equipment after each operation.
2. Check the grease cups on bearings of double rollers every two months. Fill lubricating oil as necessary. The filling interval is determined by operation intensity.
3. Check the V-belt every three months. The wearing or aging belt may cause slip during operation.
4. Check the connection of chain and chain wheel in transmission case. Regulate its tension wheel to closely connect them if necessary. Check all fastening components, especially for lock-screw on locking mechanism.
5. Check if both rollers are fastened. Regulate it to proper position if any moving occurs.
6. Check if locknut on the back of safety mechanism loosens. Tighten it if any loosening occurs.